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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (*); of the United States Court of Customs and Patent Appeals by a (*); and of the United States Circuit Court of Appeals by the letter (ᶜ).]

ERRATA

Trade-Marks Published, page 28, Official Gazette, January 2, 1934, first column, Serial No. 344,059, Martini & Rossi, for the clause "owner of Registration No. 185,413 under the two-year proviso" read *owner of Registration No 185,413 under the ten-year proviso.*

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CARNEGIE LIBRARY OF ATLANTA

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A. P. W. Paper Company, Inc., Albany, N. Y. Paper. Serial Nos. 342,121–2; Jan. 2. Class 37.

Alexander, A. M., Omaha, Nebr. Preparation for waving hair. Serial No. 342,562; Jan. 2. Class 6.

Aluminum Cooking Utensil Company, The, New Kensington, Pa. Presses for culinary use. Serial No. 342,996; Jan. 2. Class 23.

Amana Society, Amana, Iowa. Bread. Serial No. 343,021; Jan. 2. Class 46.

Ambrose & Company, Pueblo, Colo. Whiskey. Serial No. 343,154; Jan. 2. Class 49.

American Brewing Co. of Rochester, N. Y. Inc., Rochester, N. Y. Beer. Serial No. 342,831; Jan. 2. Class 48.

American Lace Mfg. Co., The, Elyrin, Ohio. Decorative lace Scarfs, doilies, etc. Serial No. 342,056; Jan. 2. Class 42.

Andrews, O. B., Company, Chattanooga, Tenn. Toy theatres and accessories therefor. Serial No. 338,305; Jan. 2. Class 22.

Ansonia O & C Company, The, Ansonia, Conn. Hose supporters. Serial No. 336,524; Jan. 2. Class 39.

Bates Manufacturing Company, The, West Orange, N. J. Paper fastening devices and paper fasteners. Serial No. 342,568; Jan. 2. Class 23.

Beck, Carl A., New York, N. Y. Prints and publications. Serial No. 337,209; Jan. 2. Class 38.

Beekin, William, doing business as Pureteed Company, Roseville, Newark, N. J. Shampoo, brilliantine, hair dressing, skin softener, and hand lotion. Serial No. 331,396; Jan. 2. Class 6.

Belcher, George E., Company, Stoughton, Mass. Shoe lasts and shoe trees. Serial No. 342,336; Jan. 2. Class 50.

Benedict-Swenson Co., Los Angeles, Calif. Wines. Serial No. 343,908; Jan. 2. Class 47.

Berlin Glove Co., Berlin, Wis. Slippers. Serial No. 341,182; Jan. 2. Class 39.

Bisceglia Bros., San Jose, Calif. Wines. Serial No. 343,718; Jan. 2. Class 47.

Bloch Bros., Glasgow, Scotland. Whisky. Serial No. 343,156; Jan. 2. Class 49.

Blue Ridge Bottling Company, St. Louis, Mo. Beverages, syrups, extracts, and concentrates. Serial No. 343,944; Jan. 2. Class 45.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. Serial No. 343,199; Jan. 2. Class 42.

Booth's Distilleries Limited, London, England. Gin, orange bitters, brandy, etc. Serial No. 339,857; Jan. 2. Class 49.

Borgfeldt, Geo., & Co., New York, N. Y. Chinaware, crockery, and earthenware. Serial No. 335,765; Jan. 2. Class 30.

Bourjois, Inc., New York, N. Y. Tissue paper for skin cleansing purposes. Serial No. 343,948; Jan. 2. Class 37.

Bourjois, Inc., New York, N. Y. Tissue paper for skin cleansing purposes. Serial No. 343,951; Jan. 2. Class 37.

Bourjois, Inc., New York, N. Y. Tissue paper for skin cleansing purposes. Serial No. 343,953; Jan. 2. Class 37.

Bourjois, Inc., New York, N. Y. Tissue paper for skin cleansing purposes. Serial No. 343,957; Jan. 2. Class 37.

Bownes, Frank, Company, Inc., Chelsea, Mass. Preparation in the nature of a varnish. Serial No. 343,762; Jan. 2. Class 16.

Bownes, Frank, Company, Inc., Chelsea, Mass. Floor preparation. Serial No. 343,763; Jan. 2. Class 16.

Bromer Brauerie A.-G., Bremen, Germany. Beer. Serial No. 340,789; Jan. 2. Class 48.

Brew Tapping Apparatus, Incorporated, New York, N. Y. Beer faucet, air regulating valve, beer pipe cleaning tanks and tubing. Serial No. 342,942; Jan. 2. Class 13.

Briarwood Corporation, The, Cleveland, Ohio. Pipes, cigarette and cigar holders. Serial No. 343,319; Jan. 2. Class 8.

British Distillers Corporation of New York, New York, N. Y. Gin. Serial No. 343,158; Jan. 2. Class 49.

Campbell & Carter, Newark, N. J. Ovens. Serial No. 343,548; Jan. 2. Class 34.

Canadian Wallpaper Manufacturers, Limited, Toronto, Ontario, Canada. Wallpaper. Serial No. 342,860; Jan. 2. Class 37.

Canine Food Company. (See Gahan, A. J.)

Castillon & Company, Cognac, France. Brandy. Serial Nos. 339,811–12; Jan. 2. Class 49.

Castillon & Company, Cognac, France. Brandy. Serial No. 339,813; Jan. 2. Class 49.

Castle & Co., Limited, London, England. Wines. Serial No. 343,582; Jan. 2. Class 47.

Cen-Tennial Cotton Gin Co., Columbus, Ga. Ice chests and refrigerators. Serial No. 328,724; Jan. 2. Class 31.

Champagne Mumm & Co., Epernay, France. Wines. Serial No. 342,153; Jan. 2. Class 47.

Chatham Manufacturing Company, Winston-Salem, N. C. Blankets, sheets, pillow-cases, and piece goods. Serial No. 342,877; Jan. 2. Class 42.

Chivas Brothers, Aberdeen, Scotland. Whisky. Serial No. 342,839; Jan. 2. Class 49.

Clean Home Products, Inc., Chicago, Ill. Preparation for fumigating and deodorizing. Serial No. 342,525; Jan. 2. Class 6.

Clean Home Products, Inc., Chicago, Ill. Crystalline substance used for deodorizing. Serial No. 342,527; Jan. 2. Class 6.

Cleveland Graphite Bronze Co., The, Cleveland, Ohio. Steel bushings and bearings. Serial No. 343,493; Jan. 2. Class 23.

Club Razor and Blade Mfg. Corp., Newark, N. J. Razor blades. Serial No. 342,344; Jan. 2. Class 23.

Coffey and Fitzgibbons, Philadelphia, Pa. Hosiery. Serial No. 343,856; Jan. 2. Class 39.

Coleman Lamp and Stove Company, The, Wichita, Kans. Burners. Serial No. 343,204; Jan. 2. Class 34.

Corbin-Holmes Shoe Co., Hudson, Mass. Insoles for shoes. Serial No. 335,996; Jan. 2. Class 39.

Comber Distilleries Co., Limited, Belfast and Comber, Ireland. Whiskey. Serial No. 340,434; Jan. 2. Class 49.

Consolidated Distilleries, Limited, Montreal, Quebec, Canada. Whisky and other potable distilled liquors. Serial No. 342,735; Jan. 2. Class 49.

Cumberland Brewing Company of Allegany County, Maryland, The, Cumberland, Md. Malt beverages. Serial No. 342,528; Jan. 2. Class 48.

Cyr, Rene, doing business as R. & L. Cyr Bros. Company, Lewiston, Maine. Canned sauce for food purposes. Serial No. 336,059; Jan. 2. Class 46.

Davis, Jay F., doing business as Kandu, The Great, New York, N. Y. Perfume. Serial No. 342,388; Jan. 2. Class 6.

Dewey, H. T., & Sons Co., New York, N. Y. Wines. Serial No. 341,571; Jan. 2. Class 47.

Diamond Spring Brewery, Lawrence, Mass. Malt beverages. Serial No. 343,163; Jan. 2. Class 48.

Du Pont Film Manufacturing Corporation, New York, N. Y. Photographic film. Serial No. 342,647; Jan. 2. Class 26.

E. and T. Fairbanks and Company, St. Johnsbury, Vt. Weighing machines and parts thereof. Serial No. 342,004; Jan. 2. Class 26.

Eichler, John, Brewing Co., The, New York, N. Y. Malt beverages. Serial No. 343,376; Jan. 2. Class 48.

Empire Twine and Yarn Co., Inc., New York, N. Y. Twine and cordage. Serial Nos. 344,140–1; Jan. 2. Class 7.

Ernst, Harry A., Springfield, Mass. Preparation for conditioning and softening the skin. Serial No. 341,832; Jan. 2. Class 6.

Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Pencils. Serial No. 343,164; Jan. 2. Class 37.

Federal Electric Food Slicer Company, The. (See Peddicord, Paul G.)

Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 343,392; Jan. 2. Class 49.

Fink, William J., doing business as The Holford Co., Minneapolis, Minn. Inhalants. Serial No. 343,118; Jan. 2. Class 6.

Firestone Tire & Rubber Company, The, Akron, Ohio. Tires and tubes, repair kits, and patches and patching gum. Serial No. 327,505; Jan. 2. Class 35.

Firestone Tire & Rubber Company, The, Akron, Ohio. Inner tubes. Serial No. 334,099; Jan. 2. Class 35.

Firma Hans Schwarzkopf, Berlin-Tempelhof, Germany. Shampoo. Serial No. 341,018; Jan. 2. Class 6.

Fili Gancia & C., Canelli, Italy. Vermouth, distilled alcoholic bitters, and cocktails, etc. Serial No. 340,720; Jan. 2. Class 49.

Flying Film Company, Inc., San Antonio, Tex. Photographic prints. Serial No. 340,645; Jan. 2. Class 38.

Freiberg & Workum Co., The, Cincinnati, Ohio. Whiskey. Serial No. 343,446; Jan. 2. Class 49.

Frey, Esther L., doing business as Esther Ralston, Hollywood, Calif. Cosmetics. Serial No. 317,246; Jan. 2. Class 6.

Fürstlich von Metternich-Winneburg'sches Domäne-Rentamt, Johannesberg, Germany. Wines. Serial No. 343,559; Jan. 2. Class 47.

Gahan, A. J., doing business as Canine Food Company, San Francisco, Calif. Canned dog and cat food. Serial No. 343,860; Jan. 2. Class 46.

Garfinkel & Ritter, New York, N. Y. Ladies' undergarments. Serial No. 343,277; Jan. 2. Class 39.

General Can Company, Chicago, Ill. Tin cans. Serial No. 343,499; Jan. 2. Class 2.

Giroux Co., Inc., New York, N. Y. Olives, sardines, peanut-butter, etc. Serial No. 341,687; Jan. 2. Class 46.

Glenmore Distilleries Co., Owensboro, Ky. Whiskey. Serial No. 341,897; Jan. 2. Class 49.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Hall China Company, The, East Liverpool, Ohio. Chinaware. Serial No. 341,898; Jan. 2. Class 30.
Hamilton, Theodore R., Brantford, Ontario, Canada. Champagne or sparkling wine. Serial No. 342,269; Jan. 2. Class 47.
Hamilton, Theodore R., Brantford, Ontario, Canada. Wine. Serial No. 342,270; Jan. 2. Class 47.
Hanley & Kinsella Coffee & Spice Company, St. Louis, Mo. Spices and seasonings. Serial No. 337,851; Jan. 2. Class 46.
Hausman, M., & Sons, New York, N. Y. Taffetas. Serial No. 343,652; Jan. 2. Class 42.
Hecht Co., The, doing business as The Hub and Hecht Bros., Washington, D. C., and Baltimore, Md. Household and store refrigerators. Serial No. 341,654; Jan. 2. Class 31.
Holford Co., The. (See Fink, William J.)
Holsum Bakery, The. (See Long, W. E., Co., The.)
Hub and Hecht Bros., The. (See Hecht Co., The.)
Inventographs, Inc., Rochester, N. Y. Stock market charts. Serial No. 342,698; Jan. 2. Class 38.
Ireland, Samuel W., Atlantic City, N. J. Coffee, tea, and cocoa. Serial No. 342,075; Jan. 2. Class 46.
Isaacs, I. C., & Company, Baltimore, Md. Riding breeches, jodhpours, and riding coats and vests. Serial Nos. 343,500–1; Jan. 2. Class 39.
Juillard, Incorporated, San Francisco, Calif. Whiskey. Serial No. 342,443; Jan. 2. Class 49.
Kandu, The Great. (See Davis, Jay F.)
Keystone Lubricating Company, Philadelphia, Pa. Preparation for retarding sunburn. Serial No. 341,797; Jan. 2. Class 6.
King Features Syndicate, Inc., New York, N. Y. Newspaper or magazine section. Serial No. 343,995; Jan. 2. Class 38.
Kitchen Maid Corporation, The, Andrews, Ind. Table tops, sink tops, and drain boards. Serial No. 343,403; Jan. 2. Class 32.
Kress, S. H., & Co., New York, N. Y. Razor blades. Serial No. 343,508; Jan. 2. Class 23.
Kronheim, Jacob, Cleveland, Ohio. Stuffing for furniture. Serial No. 342,542; Jan. 2. Class 32.
Kroydon Co. Inc., The, Maplewood, N. J. Golf clubs. Serial No. 343,458; Jan. 2. Class 22.
La Crosse Breweries Inc., La Crosse, Wis. Malt beverages. Serial No. 343,211; Jan. 2. Class 48.
Laird & Company, Scobeyville and Eatontown, N. J. Brandy. Serial Nos. 343,071–2; Jan. 2. Class 49.
Laird & Company, Scobeyville and Eatontown, N. J. Brandy. Serial No. 343,075; Jan. 2. Class 49.
Laird & Company, Scobeyville and Eatontown, N. J. Brandy. Serial No. 343,352; Jan. 2. Class 49.
Leon, Forest, Pittsburg, Kans. Hosiery. Serial No. 338,299; Jan. 2. Class 39.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. Serial No. 336,328; Jan. 2. Class 17.
Long, W. E., Co., The, doing business as The Holsum Bakery, Chicago, Ill. Bread. Serial No. 335,326; Jan. 2. Class 46.
Macedo, J. Carvalho, Limitada, Villa Nova de Gaya, Portugal. Wines. Serial No. 338,659; Jan. 2. Class 47.
Magnus, Jos. A., & Company, Cincinnati, Ohio. Whiskey. Serial No. 342,713; Jan. 2. Class 49.
Mahoney, Edward L., Baltimore, Md. Pure rye whiskey. Serial No. 341,264; Jan. 2. Class 49.
Maiden Form Brassiere Co. Inc., New York, N. Y. Brassières, bandeaux, etc. Serial No. 335,240; Jan. 2. Class 39.
Mammoth Springs Canning Company, Sussex, Wis. Canned vegetables. Serial No. 342,445; Jan. 2. Class 46.
Martine & Rossi S. A., Turin, Italy. Wines. Serial No. 344,059; Jan. 2. Class 47.
Master Makers, Catonsville, Md. Wood construction toy sets. Serial No. 343,083; Jan. 2. Class 22.
McGlenn, Gordon B., Cleveland, Ohio. Preparation for the treatment of liver and gall disorders. Serial No. 342,811; Jan. 2. Class 6.
Midwest Products Company, Springfield, Ohio. Lawn mowers. Serial No. 341,135; Jan. 2. Class 23.
Milkmaid Products Co. (See Scudders-Gale Grocer Company.)
Minute Safety Razor Corporation, Newark, N. J. Safety razors and safety razor blades. Serial No. 343,465; Jan. 2. Class 23.
Minute Safety Razor Corporation, Newark, N. J. Safety razors and safety razor blades. Serial Nos. 343,467–8; Jan. 2. Class 23.
Mock, Judson, Voehringer Co., Inc., Long Island City, N. Y. Hosiery. Serial No. 342,374; Jan. 2. Class 39.
Müller, Matheus, Kommandit-Gesellschaft Auf Aktien, Eltville-on-the-Rhine, Germany. Wines. Serial No. 343,461; Jan. 2. Class 47.
Napa Valley Wine & Brandy Company, Baltimore, Md. Whiskey, brandy, and other potable distilled spirits. Serial No. 343,568; Jan. 2. Class 49.
Newall, E. & F., Ltd., London, England. Wines. Serial No. 342,662; Jan. 2. Class 47.
Nihon Sieyen Kenkyujo. (See Yamada, Kanjiro.)
Nixon & Co., Villa Nova de Gaya, Portugal. Port wine. Serial No. 343,622; Jan. 2. Class 47.
Oleothesin Company, Inc., The, Buffalo, N. Y. Solution of the pressor principle of the pituitary infundibulum. Serial No. 343,136; Jan. 2. Class 6.
Outdoor Publishing Company, New York, N. Y. Section of a periodical. Serial No. 343,786; Jan. 2. Class 38.
Outdoor Publishing Company, New York, N. Y. Section of a magazine. Serial No. 343,787; Jan. 2. Class 38.
Paper Service Company, The, Lockland, Ohio. Creped paper. Serial No. 343,300; Jan. 2. Class 37.
Parisian Plaque Corporation, New York, N. Y. Abrasive article. Serial No. 334,317; Jan. 2. Class 44.
Patterson Foundry & Machine Company, The, East Liverpool, Ohio. Porcelain laboratory jars. Serial No. 343,004; Jan. 2. Class 23.
Peddicord, Paul G., doing business as The Federal Electric Food Slicer Company, Dayton, Ohio. Food slicing machines. Serial No. 342,765; Jan. 2. Class 23.
Pepsodent Co., The, Chicago, Ill. Skin lotions. Serial No. 343,184; Jan. 2. Class 6.
Pioneer Ice Cream Brands, Inc., New York, N. Y. Frozen confections. Serial No. 343,519; Jan. 2. Class 46.
Plumb, Fayette R., Inc., Philadelphia, Pa. Hammers. Serial No. 341,608; Jan. 2. Class 23.
Plykrome Corporation, The, New York, N. Y. Welding rods. Serial No. 341,840; Jan. 2. Class 14.
Plymouth Cordage Company, North Plymouth, Mass. Hard fibre rope, twine, and cords. Serial No. 336,371; Jan. 2. Class 7.
Procter & Gamble Company, The, Cincinnati, Ohio. Stearic acid. Serial No. 343,306; Jan. 2. Class 6.
Pureteed Company. (See Beeken, William.)
Quaker Oats Company, The, Chicago, Ill. Wheat flour, rolled oats, poultry feed. Serial No. 343,878; Jan. 2. Class 46.
Quality Products Co., Chicago, Ill. Potato chips. Serial No. 340,239; Jan. 2. Class 46.
Radeberger Exportbierbrauerei Aktiengesellschaft, Radeberg, Dresden, Germany. Malt beverages. Serial No. 342,287; Jan. 2. Class 48.
Ralston, Esther. (See Frey, Esther L.)
Raskin, Harry, Inc., Savannah, Ga. Dresses and frocks. Serial No. 342,814; Jan. 2. Class 39.
Reading Rubber Manufacturing Company, Reading, Mass. Rubberized fabrics. Serial No. 343,410; Jan. 2. Class 50.
Rejuvia Beauty Laboratories, Inc., New York, N. Y. Lipstick. Serial No. 342,320; Jan. 2. Class 6.
Republic Rubber Company, The, Youngstown, Ohio. Rubber padding of all kinds. Serial No. 342,923; Jan. 2. Class 50.
Republic Rubber Company, The, Youngstown, Ohio. Floor and table coverings of rubber composition. Serial No. 342,924; Jan. 2. Class 50.
Republic Steel Corporation, Youngstown, Ohio. Boiler and condenser tubes. Serial No. 343,742; Jan. 2. Class 34.
Sanderson, William, & Son, Limited, Leith, Scotland. Whisky. Serial No. 342,405; Jan. 2. Class 49.
Santa Ana Packing Co., Santa Ana, Calif. Maltless fruit juices. Serial No. 340,725; Jan. 2. Class 45.
Schenley Wine & Spirit Import Corporation, New York, N. Y. Wines. Serial Nos. 344,007–8; Jan. 2. Class 47.
Schneider, Lou, Inc., New York, N. Y. Ladies' coats. Serial No. 342,201; Jan. 2. Class 39.
Schock, Gusmer & Co. Inc., Hoboken, N. J. Brewery equipment. Serial No. 340,418; Jan. 2. Class 23.
Scoville Manufacturing Company, Waterbury, Conn. Bath shower curtains. Serial No. 343,369; Jan. 2. Class 13.
Scudders-Gale Grocer Company, doing business as Milkmaid Products Co., St. Louis, Mo. Baking powder. Serial No. 343,933; Jan. 2. Class 46.
Shell Oil Company, San Francisco, Calif. Inner tubes. Serial No. 342,769; Jan. 2. Class 35.
Sherwin-Williams Co., Cleveland, Ohio. Thinners for paints, varnishes, etc. Serial No. 343,883; Jan. 2. Class 16.
Sichel & Company, London, England. Wines. Serial No. 338,942; Jan. 2. Class 47.
Sichel & Company, London, England. Wines. Serial No. 338,943; Jan. 2. Class 47.
Sichel & Company, London, England. Sauterne wine. Serial No. 338,944; Jan. 2. Class 47.
Sichel, H., & Sons Limited, London, England. Moselle wine. Serial No. 340,419; Jan. 2. Class 47.
Sisk, Albert W., & Son, Preston, Md. Canned vegetables. Serial No. 343,839; Jan. 2. Class 46.
Societe Anonyme Alliance Vinicole de Bourgogne, Bourgogne, France. Wines. Serial No. 342,853; Jan. 2. Class 47.
Societe Anonyme Champagne Ernest Irroy, Reims, France. Campagne and sparkling wines. Serial Nos. 344,013–14; Jan. 2. Class 47.
Societe a Responsabilite Limitee J. Thiriez Pere et Fils et Cartier-Bresson, Lille, France. Thread or yarn. Serial No. 342,854; Jan. 2. Class 48.
Southard & Co. Limited, London, England. Spirits. Serial No. 342,243; Jan. 2. Class 49.
Spiegl, E. H., Salinas, Calif. Fresh vegetables. Serial No. 320,377; Jan. 2. Class 46.
Staley, A. E., Manufacturing Company, Decatur, Ill. Laundry starch. Serial No. 333,453; Jan. 2. Class 6.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Stein, A., & Company, Chicago, Ill. Garters or hose supporters. Serial No. 340,065; Jan. 2. Class 39.
Steinberger Bros. Glove Corp., San Francisco, Calif., and New York, N. Y. Gloves. Serial Nos. 342,410–12; Jan. 2. Class 39.
Stetson, John B., Company, Philadelphia, Pa. Hats and caps. Serial No. 343,230; Jan. 2. Class 39.
Stewart-Warner Corporation, Chicago, Ill. Cameras, motion picture projectors, screens, and reels. Serial No. 341,563; Jan. 2. Class 26.
Stoddard, G. S., & Co., Inc., New York, N. Y. Medicinal tablets. Serial No. 343,091; Jan. 2. Class 6.
Stoddard, G. S., & Co., Inc., New York, N. Y. Reconstructive tonics. Serial No. 343,092; Jan. 2. Class 6.
Stoddard, G. S., & Co., Inc., New York, N. Y. Expectorant and antispasmodic. Serial No. 343,093; Jan. 2. Class 6.
Super Service Mfg. Co., Inc., Kansas City, Mo. Wrenches and automobile tire changers. Serial No. 342,779; Jan. 2. Class 23.
Tennessee Furniture Corporation, Chattanooga, Tenn. Refrigerators. Serial No. 342,556; Jan. 2. Class 31.
Transcontinental Agencies Ltd., London, England. Wines. Serial No. 341,611; Jan. 2. Class 47.
United Color & Pigment Co., Newark, N. J. Paint pigments. Serial No. 344,070; Jan. 2. Class 16.
United Distilleries Corporation, New York, N. Y. Brandy, gin, whiskey, etc. Serial No. 341,996; Jan. 2. Class 49.
United States Government Advertiser, Washington, D. C. Journal. Serial No. 287,630; Jan. 2. Class 38.
Upland Heights Orange Association, Ontario, Calif. Fresh citrus fruits. Serial No. 332,743; Jan. 2. Class 46.
Utility Blade Corporation, Maplewood, N. J. Safety razors and safety razor blades. Serial Nos. 343,479–80; Jan. 2. Class 23.
Vigny, Inc., New York, N. Y. Perfumes. Serial No. 343,142; Jan. 2. Class 6.
W. G. B. Oil Clarifier, Inc., Kingston, N. Y. Device for filtering and clarifying oil. Serial No. 343,098; Jan. 2. Class 23.
Walla Walla Canning Company, Walla Walla, Wash. Canned fruits and vegetables and canned tomato juice. Serial No. 338,631; Jan. 2. Class 46.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Shoes. Serial No. 343,195; Jan. 2. Class 39.
Weakley, Raymond D., Miami, Fla. Easels. Serial No. 342,682; Jan. 2. Class 32.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Stearic acid. Serial No. 338,549; Jan. 2. Class 6.
Wolfe Wear-U-Well Corporation, Columbus, Ohio. Footwear. Serial No. 337,205; Jan. 2. Class 39.
Yamada, Kanjiro, doing business as Nihon Sieyen Kenkyujo, Tokyo Fu, Japan. Refined salt water. Serial No. 290,230; Jan. 2. Class 6.
Yankee Doodle Bird Products Co., Inc., Dunreith, Ind. Bird seed, song restorer, color and health food. Serial No. 336,972; Jan. 2. Class 46.
Zeropack Company, The, Cincinnati, Ohio. Fruit. Serial No. 343,632; Jan. 2. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Adet, Seward, (Ste. Anonyme), doing business as The Associated Beehive Brand Shippers of Bordeaux, Cognac, France. Brandy. 309,147; Jan. 2; Serial No. 340,374; published Oct. 24, 1933. Class 49.
Ames Baldwin Wyoming Co. (See Wyoming Shovel Works, assignor.)
Amieux, M., Cie, Nantes, France, to Maison Amieux-Freres, Societe Anonyme, Nantes-Chantenay, France, successor. Canned sardines and tunny fish. 93,802; renewed Oct. 21, 1933.
Antinori, Niccolo, doing business as Marchesi Lodovico & Piero Antinori, Florence, Italy. Red and white chianti wines. 309,164; Jan. 2; Serial No. 338,445; published Oct. 24, 1933. Class 47.
Arabol Manufacturing Company, The, New York, N. Y. Padding, tabbing, and bookbinding cement. 309,114; Jan. 2; Serial No. 340,765; published Oct. 17, 1933. Class 5.
Associated Beehive Brand Shippers of Bordeaux, The. (See Adet, Seward (Ste. Anonyme).
Auditorium Pharmacy Company, to Walgreen Co., Chicago, Ill., successor. Lotions. 40,144; renewed Apr. 21, 1933.
Ault & Wiborg Carbon & Ribbon Co., Inc., Cincinnati, Ohio. Ink. 309,095; Jan. 2; Serial No. 341,418; published Oct. 24, 1933. Class 11.
Ayer, J. C., Company, by change of name to The Ayer Company, Lowell, Mass. Cathartic pills. 94,976; renewed Jan. 20, 1934.
Bayer Company, Inc., The, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Cardiac tonic and diuretic. 96,390; renewed Apr. 21, 1934.
Beattie, David A., doing business as D. A. Beattie Association, San Jose, Calif. Fresh citrus fruits. 309,189; Jan. 2. Class 46.
Behrend & Rothschild, New York, N. Y. Photographic cameras and films. 309,169; Jan. 2; Serial No. 341,184; published Oct. 17, 1933. Class 26.
Bennett, George E., doing business as E. W. Bennett & Co., San Francisco, Calif. Metal-polish. 95,593; renewed Mar. 3, 1934.
Benz, George, Sons, Inc., St. Paul, Minn. Alcoholic bitters. 309,128; Jan. 2; Serial No. 341,229; published Oct. 24, 1933. Class 49.
Benz, George, Sons, Inc., St. Paul, Minn. Whisky. 309,129–31; Jan. 2; Serial Nos. 341,231–3; published Oct. 17, 1933. Class 49.
Berse, Harry, New York, N. Y. Razor blades. 309,069–73; Jan. 2; Serial Nos. 340,511–15; published Oct. 17, 1933. Class 23.
Berse, Harry, New York, N. Y. Razor blades. 309,076; Jan. 2; Serial No. 340,596; published Oct. 17, 1933. Class 23.
Bloch Bros., Glasgow, Scotland. Whiskey. 309,075; Jan. 2; Serial No. 340,570; published Oct. 24, 1933. Class 49.
Bohemian Distributing Co. Ltd., Los Angeles, Calif. Wines. 309,132; Jan. 2; Serial No. 341,238; published Oct. 24, 1933. Class 47.
Bonetti Frères, Paris, France. Ointment. 94,552; renewed Dec. 16, 1933.
Brauerei Joh. Humbser A.-G., Furth, Germany. Malt beverages. 309,145; Jan. 2; Serial No. 340,339; published Oct. 24, 1933. Class 48.
Brewery Age Publishing Company. (See Dubin, Joseph.)
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Game tables. 309,091; Jan. 2; Serial No. 341,390; published Oct. 24, 1933. Class 22.
Callaway Mills, Lagrange, Ga. Awning cord, binder twine, clothes lines, etc. 309,126; Jan. 2; Serial No. 341,188; published Oct. 24, 1933. Class 7.
Carey Salt Co., The, Hutchinson, Kans. Table salt. 309,115; Jan. 2; Serial No. 340,767; published Oct. 17, 1933. Class 46.
Carter Coal Company, Washington, D. C. Coal. 309,148; Jan. 2; Serial No. 340,376; published Oct. 17, 1933. Class 1.
Carter, E. C., and Son, New York, N. Y. Textile fabrics in the piece. 96,101; renewed Apr. 7, 1934.
Casa Vinicola Barone Ricasoli. (See Firidolfi Giuliana R.)
Central Press Association, Inc., New York, N. Y. Newspaper section. 309,150; Jan. 2; Serial No. 339,147; published Oct. 17, 1933. Class 38.
Chain Belt Company, Milwaukee, Wis. Chain belt. 94,883; renewed Jan. 13, 1934.
Champion Milling & Grain Company, Clinton, Iowa. Cattle, dairy, poultry, etc., feeds. 309,178; Jan. 2; Serial No. 340,000; published Oct. 17, 1933. Class 46.
Chapman, William O., Washington, D. C. Maltless beverages. 309,092; Jan. 2; Serial No. 341,394; published Oct. 24, 1933. Class 45.
Const Carton Company, Seattle, Wash. Children's game. 309,107; Jan. 2; Serial No. 341,003; published Oct. 24, 1933. Class 22.
Codo Manufacturing Corporation, Cornopolis, Pa. Typewriter ribbons and carbon papers. 309,151; Jan. 2; Serial No. 339,221; published Oct. 24, 1933. Class 11.
Colgate & Co., New York, N. Y., assignor, by mesne assignments, to Colgate-Palmolive-Peet Company, Chicago, Ill. Perfumery. 42,374; renewed Apr. 12, 1934.
Colgate & Co., New York, N. Y., assignor, by mesne assignments, to Colgate-Palmolive-Peet Company, Chicago, Ill. Toilet soap. 42,375; renewed Apr. 12, 1934.
Consolidated Paper Box Company, San Francisco, Calif. Folding paper boxes, cartons, and fabricated boxes. 309,170; Jan. 2; Serial No. 314,099; published Oct. 24, 1933. Class 2.
Craighall Bonding Company, Glasgow, Scotland. Whisky. 309,146; Jan. 2; Serial No. 340,342; published Oct. 24, 1933. Class 49.
Crocker, Josiah H. (See Pingo Company.)
Dahl, G. A., & Co., Brawley, Calif. Fresh vegetables and fresh cantaloupes. 309,163; Jan. 2; Serial No. 338,363; published Oct. 17, 1933. Class 46.
Dennison Manufacturing Company, Boston, Mass., to Dennison Manufacturing Co., Framingham, Mass. Tags. 94,617; renewed Dec. 23, 1933.
Dewey, H. T., & Sons Co., New York, N. Y. Wines. 309,096–7; Jan. 2; Serial Nos. 341,453–4; published Oct. 24, 1933. Class 47.
Dewolfe Company, The, Waltham, Mass. Liquid protective coating or finish. 309,152; Jan. 2; Serial No. 339,261; published Oct. 17, 1933. Class 16.
Diamond Match Co., The, Chicago, Ill., assignor to The Diamond Match Company, New York, N. Y. Matches. 95,307; renewed Feb. 10, 1934.

Diamond Match Company, The, New York, N. Y. Matches. 309,087; Jan. 2; Serial No. 341,357; published Oct. 24, 1933. Class 9.

Dietrich, Karl, Altenburg, Germany. Sewing-machines and certain named parts thereof. 90,302; renewed Feb. 18, 1933.

Dubin, Joseph, doing business as Brewery Age Publishing Company, Chicago, Ill. Publication. 309,123; Jan. 2; Serial No. 340,910; published Oct. 17, 1933. Class 38.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Cutlery. 309,078; Jan. 2; Serial No. 341,243; published Oct. 17, 1933. Class 23.

Durex Products Inc., New York, N. Y. Pessaries. 309,111; Jan. 2; Serial No. 340,705; published Oct. 24, 1933. Class 44.

Duriron Castings Company, New York, N. Y., by change of name to The Duriron Company, Inc., Dayton, Ohio. Machines, stills, pumps, and the like, and parts thereof. 96,259; renewed Apr. 14, 1934.

Eureka Medical Company, South Bend, Ind. Headache medicines. 37,307; renewed Nov. 12, 1931.

Fairbanks, Morse & Company, Chicago, Ill. Air-conditioning unit for heating, cooling, etc., air. 309,177; Jan. 2; Serial No. 339,782; published Oct. 24, 1933. Class 34.

Feuerheerd Brothers & Company, Limited, St. Helier, Jersey, Channel Islands. Port wine. 309,120; Jan. 2; Serial No. 340,869; published Oct. 24, 1933. Class 47.

Firidolfi, Giuliana R., doing business as Casa Vinicola Barone Ricasoli, Florence, Italy. Wines. 309,160–1; Jan. 2; Serial No. 338,142–3; published Oct. 24, 1933. Class 47.

Fitger Company, The, Duluth, Minn., now by change of name "Fitger Brewing Company". Malt beverages. 309,099–10; Jan. 2; Serial Nos. 341,546–8; published Oct. 24, 1933. Class 48.

Folger, J. A. & Co., San Francisco, Calif. Coffee. 95,214; renewed Feb. 6, 1934.

Formostone Company, Philadelphia, Pa. Stone repair material. 309,180; Jan. 2, 1934. Class 12.

Fort Ogden Citrus Growers Association, Fort Ogden, Fla. Citrus fruits. 96,957; renewed May 12, 1934.

Frankfort Distillery, Inc., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky. Whiskey. 309,066; Jan. 2; Serial No. 340,393; published Sept. 12, 1933. Class 49.

Frankfort Distillery, Inc., The, assignor to Frankfort Distilleries, Incorporated, Louisville, Ky. Whiskey. 309,067; Jan. 2; Serial No. 340,394; published Oct. 24, 1933. Class 49.

Frankfort Distillery, Inc., The, assignor to Frankfort Distilleries, Incorporated, Louisville, Ky. Whiskey. 309,109; Jan. 2; Serial No. 340,679; published Oct. 24, 1933. Class 49.

Frankfort Distillery, Inc., The, assignor to Frankfort Distilleries, Incorporated, Louisville, Ky. Whiskey. 309,149; Jan. 2; Serial No. 340,391; published Oct. 17, 1933. Class 49.

Fredonia Products Co. Inc., Fredonia, N. Y. Wines. 309,143; Jan. 2; Serial No. 341,122; published Oct. 24, 1933. Class 47.

French Champagne Distributors, Inc., New York, N. Y. Champagne and wines. 309,167; Jan. 2; Serial No. 341,162; published Oct. 24, 1933. Class 47.

Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Wines. 309,085; Jan. 2; Serial No. 341,326; published Oct. 24, 1933. Class 47.

Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Wines. 309,088; Jan. 2; Serial No. 341,327; published Oct. 24, 1933. Class 47.

Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Wines. 309,094; Jan. 2; Serial No. 341,415; published Oct. 24, 1933. Class 47.

General Mills, Inc. (See Larrowe Milling Co., assignor.)

General Printing Ink Corporation, Dover, Del., and New York, N. Y. Machines, rollers, presses, etc. 309,185; Jan. 2. Class 23.

Gillott, Joseph, & Sons, Birmingham, England, and New York, N. Y., assignor to Joseph Gillott & Sons Limited, Birmingham, England. Steel pens. 96,663–6; renewed Apr. 28, 1934.

GoMel Korn Shop, The. (See Gommels, John P.)

Gommels, John P., doing business as The GoMel Korn Shop, Quincy, Ill. Pop-corn confections. 309,175; Jan. 2; Serial No. 331,497; published Dec. 13, 1932. Class 46.

Gustave Niebaum Company, The, San Francisco, Calif. Wines. 309,141; Jan. 2; Serial No. 341,095; published Oct. 24, 1933. Class 47.

Hampton Cracker Company Inc., The, Louisville, Ky. Soda crackers or biscuits and cookies or cooky cakes. 309,187; Jan. 2. Class 46.

Hart, Louis J., doing business as Sta-Put Eraser Co., New York, N. Y., Rubber typewriter erasers. 309,118; Jan. 2; Serial No. 340,794; published Oct. 17, 1933. Class 37.

Henkell & Co., Wiesbaden-Biebrich, Germany. Wine. 309,183; Jan. 2. Class 47.

Hillerich & Bradsby Co., Louisville, Ky. Golf clubs. 309,102; Jan. 2; Serial No. 341,552; published Oct. 24, 1933. Class 22.

Hinde & Dauch Paper Company, The, Sandusky, Ohio. Pamphlets. 96,294; renewed Apr. 14, 1934.

Hood Rubber Company, Boston, Mass., assignor to Hood Rubber Company, Inc., Wilmington, Del. Boots and shoes. 41,472; renewed Nov. 17, 1933.

Huyler's, New York, N. Y. Food product. 309,156; Jan. 2; Serial No. 337,191; published Oct. 17, 1933. Class 46.

Ideal Novelty & Toy Co., Brooklyn, N. Y. Dolls. 309,103; Jan. 2; Serial No. 341,554; published Oct. 24, 1933. Class 22.

Import Paper Company, Chicago, Ill. Paper. 309,182; Jan. 2. Class 37.

Johnson Motor Company, Waukegan, Ill. Outboard motors and marine engines. 309,124; Jan. 2; Serial No. 340,950; published Oct. 17, 1933. Class 23.

Jordan Wine Company Limited, Jordan, Ontario, Canada. Wines. 309,079; Jan. 2; Serial No. 341,248; published Oct. 24, 1933. Class 47.

Josephsohn Candy Co., Inc., Long Island City, N. Y. Candies and chocolates. 309,106; Jan. 2; Serial No. 340,617; published Oct. 17, 1933. Class 46.

Kelly, Geo. J., Inc., Lynn, Mass. Pyrophoric gas lighters. 309,144; Jan. 2; Serial No. 341,127; published Oct. 24, 1933. Class 34.

Kistler, Lesh & Company, assignor to Kistler Leather Company, Boston, Mass. Leather. 96,685; renewed Apr. 28, 1934.

Kohler Co., Kohler, Wis. Closet seats and closet seat bumpers. 309,081; Jan. 2; Serial No. 341,294; published Oct. 24, 1933. Class 13.

Kohlmeier, J. M., Inc., Long Island City and New York, N. Y. Paints, paint enamels, oil colors, etc. 309,068; Jan. 2; Serial No. 340,401; published Oct. 17, 1933. Class 16.

Lafayette Brewery, Inc., La Fayette, Ind. Beer. 309,105; Jan. 2; Serial No. 341,578; published Oct. 24, 1933. Class 48.

Lang Brothers, Limited, Glasgow, Scotland. Whisky. 309,162; Jan. 2; Serial No. 338,155; published Oct. 17, 1933. Class 49.

Larrowe Milling Co., The, Cohocton, N. Y., assignor, by mesne assignments, to General Mills, Inc., Minneapolis, Minn. Beet pulp. 96,429; renewed Apr. 21, 1934.

Luckett, William S., New York, N. Y. Game. 309,080; Jan. 2; Serial No. 341,250; published Oct. 24, 1933. Class 22.

Mackenzie Brothers, Dalmore, Limited, Alness, Scotland. Whisky. 309,133–4; Jan. 2; Serial Nos. 341,132–3; published Oct. 17, 1933. Class 49.

Maison Amieux-Freres, Societe Anonyme. (See Amieux, M., & Cie.)

Maison, Dorin, Inc. (See Monin, Maurice, assignor.)

Manhattan Electrical Supply Co., Jersey City, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry batteries. 96,313; renewed Apr. 14, 1934.

Marchesi Lodovico & Piero Antinori. (See Antinori, Niccolo.)

McNeil, Robert L., doing business as Robert McNeil, assignor to McNeil Laboratories, Inc., Philadelphia, Pa. Medicinal elixirs and capsules. 309,077; Jan. 2; Serial No. 339,637; published Sept. 12, 1933. Class 6.

Medicone Company, Inc., New York, N. Y. Pills, tablets, capsules, ointments, etc., for treating the skin; mucous membranes, etc. 309,074; Jan. 2; Serial No. 340,564; published Oct. 3, 1933. Class 6.

Menasha Products Company, The, Menasha, Wis. Receptacles made of pulp. 309,179; Jan. 2; Serial No. 340,126; published Oct. 24, 1933. Class 2.

Mente & Co., Inc., New Orleans, La. Twine of cotton or jute. 309,172; Jan. 2; Serial No. 322,780; published Sept. 27, 1932. Class 7.

Michael's, Dr., All-Herb Laboratories. (See Switalski, Michael.)

Minneapolis Brewing Company, assignor to Minneapolis Brewing Company, Minneapolis, Minn. Beer and porter. 94,249; renewed Nov. 18, 1933.

Modern Packing Co., Brooklyn, N. Y. Salad and olive oils. 309,112; Jan. 2; Serial No. 340,722; published Oct. 17, 1933. Class 46.

Monin, Maurice, Paris, France, assignor, by mesne assignments, to Maison Dorin, Inc., New York, N. Y. Rouge. 96,981–2; renewed May 12, 1934.

Montgomery, Walter P., doing business as Southern Tobacco Products Company, Valdosta, Ga. Cigarettes. 309,104; Jan. 2; Serial No. 341,558; published Oct. 24, 1933. Class 17.

Mueller Brass Co., Port Huron, Mich. Gas cocks. 309,089; Jan. 2; Serial No. 341,334; published Oct. 24, 1933. Class 13.

Multibestos Company, North Cambridge, Mass. Brake linings, brake blocks, and clutch facings. 309,086; Jan. 2; Serial No. 341,335; published Oct. 17, 1933. Class 35.

Multibestos Company, North Cambridge, Mass. Brake linings and blocks and clutch facings. 309,090; Jan. 2; Serial No. 341,336; published Oct. 17, 1933. Class 35.

Murray, Sons & Co., Limited, Belfast, Ireland. Smoking tobacco. 309,176; Jan. 2; Serial No. 339,757; published Oct. 24, 1933. Class 17.

Mutual Garment Company, St. Louis, Mo. Women's wearing apparel. 309,159; Jan. 2; Serial No. 338,057; published Oct. 17, 1933. Class 39.

N. V. Likeurstokerij Wijnand Fockink, Amsterdam, Netherlands. Gin, liquers, bitters, etc. 309,082; Jan. 2; Serial No. 341,295; published Oct. 24, 1933. Class 49.

N. V. Likeurstokerij Wijnand Fockink, Amsterdam, Netherlands. Gin, liquers, bitters, etc. 309,083; Jan. 2; Serial No. 341,297; published Oct. 24, 1933. Class 49.

National Carbon Company. (See Manhattan Electrical Supply Co., assignor.)

New York Solder Co. Inc., New York, N. Y. Solder having a flux core. 309,191; Jan. 2. Class 14.

Paramount Multi-Dryer Co., Los Angeles, Calif. Hair dryers. 309,158; Jan. 2; Serial No. 337,928; published Oct. 24, 1933. Class 44.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Paints, varnishes, enamels, etc. 309,108; Jan. 2; Serial No. 340,637; published Oct. 17, 1933. Class 16.

Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Barrel fillers. 94,664; renewed Dec. 23, 1933.

Pharis Tire and Rubber Company, The, Newark, Ohio. Tires. 309,188; Jan. 2. Class 35.

Pingo Company, Cambridge, to Josiah H. Crocker, doing business as Pingo Company, Boston, Mass. Metal polishes. 96,333; renewed Apr. 14, 1934.

Pratt & Whitney Aircraft Company, The, East Harford, Conn. Aircraft engines, parts, and attachments therefor. 309,173; Jan. 2; Serial No. 327,259; published Oct. 17, 1933. Class 23.

Radio Steel & Mfg. Co., Chicago, Ill. Children's coaster wagons. 309,140; Jan. 2; Serial No. 341,046; published Oct. 24, 1933. Class 22.

Rand Rubber Company. (See Rindskopf, Henry P., assignor.)

Ray Proof Corporation, Brooklyn, N. Y. Structural materials. 309,181; Jan. 2. Class 12.

Reicher, Jacob, Baltimore, Md. Wines. 309,084; Jan. 2; Serial No. 341,305; published Oct. 24, 1933. Class 47.

Reish, J. W., Paris, France. Champagne wines and sparkling wines. 309,107; Jan. 2; Serial No. 340,624; published Oct. 24, 1933. Class 47.

Richardson Company, The, Lockland, Ohio. Doll's tea set. 309,168; Jan. 2; Serial No. 341,170; published Oct. 24, 1933. Class 22.

Rindskopf, Henry P., New York, N. Y., assignor to Rand Rubber Company, Inc., Brooklyn, N. Y. Dress shields. 96,187–8; renewed Apr. 7, 1934.

Rindskopf, Henry P., New York, N. Y., assignor to Rand Rubber Company, Inc., Brooklyn, N. Y. Dress shields. 96,341; renewed Apr. 14, 1934.

Roll, Walter H., Kansas City, Mo. Decorated disks used as play money. 309,093; Jan. 2; Serial No. 341,406; published Oct. 24, 1933. Class 22.

Rubel Baking Co., The, Cincinnati, Ohio. Bread. 309,171; Jan. 2; Serial No. 321,259; published Oct. 17, 1933. Class 46.

St. Louis Seed Company, St. Louis, Mo. Dog food. 309,116; Jan. 2; Serial No. 340,773; published Oct. 17, 1933. Class 46.

Schandein & Lind Co., Philadelphia, Pa., to Schandein & Lind Co., Norristown, Pa. Candy. 94,205; renewed Nov. 11, 1933.

Scheidt, Adam, Brewing Company, Norristown, Pa. Ale. 309,138; Jan. 2; Serial No. 341,004; published Oct. 24, 1933. Class 48.

Seacrest Laundry Inc., Elmhurst, Long Island, N. Y. Cardboard boxes and cloth and cellulose bags. 309,154; Jan. 2; Serial No. 334,327; published Oct. 24, 1933. Class 2.

Sea Island Thread Mfg. Corp., New York, N. Y. Mercerized thread and spool cotton. 309,127; Jan. 2; Serial No. 341,225; published Oct. 17, 1933. Class 43.

Sears, Roebuck and Co., Chicago, Ill. Pie filling, candy, fish food, etc. 309,155; Jan. 2; Serial No. 336,302; published Aug. 1, 1933. Class 46.

Shellwood-Johnson Company, The, Paterson, N. J. Vacuum insulated cans and bottles. 309,119; Jan. 2; Serial No. 340,817; published Oct. 24, 1933. Class 2.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, lacquers, varnishes, etc. 309,113; Jan. 2; Serial No. 340,726; published Oct. 17, 1933. Class 16.

Soc. An. Bodegas Bilbainas, Bilbao, Spain. Wines. 309,142; Jan. 2; Serial No. 341,099; published Oct. 24, 1933. Class 47.

Simmons Hardware Company, St. Louis, Mo. Electric laundry-washing machine. 309,139; Jan. 2; Serial No. 341,080; published Oct. 24, 1933. Class 24.

Skinner Engine Company, Erie, Pa. Steam-engines. 96,544; renewed Apr. 21, 1934.

Soc. An. Bodegas Bilbainas, Bilbao, Spain. Wines. 309,110; Jan. 2; Serial No. 340,698; published Oct. 24, 1933. Class 47.

Southern Tobacco Products Company. (See Montgomery, Walter P.)

Stahl-Meyer, Inc., New York, N. Y. Pork sausage. 309,157; Jan. 2; Serial No. 337,893; published Aug. 22, 1933. Class 46.

Standard Milling Company, New York, N. Y. Pure wheat gray shorts. 309,186; Jan. 2. Class 46.

Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Closet combinations. 309,135; Jan. 2; Serial No. 341,137; published Oct. 24, 1933. Class 13.

Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Closet bowls. 309,136; Jan. 2; Serial No. 341,138; published Oct. 24, 1933. Class 13.

Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Plumbing fixtures. 309,165; Jan. 2; Serial No. 341,139; published Oct. 24, 1933. Class 13.

Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Closet combinations. 309,166; Jan. 2; Serial No. 341,141; published Oct. 24, 1933. Class 13.

Sta-Put Eraser Co. (See Hart, Louis J.)

Switalski, Michael, doing business as Dr. Michael's All-Herb Laboratories, Chicago, Ill. Liniment, ointment, salves, etc. 309,184; Jan. 2. Class 6.

Terrene Products Company, West Palm Beach, Fla. Razor hones. 309,190; Jan. 2. Class 4.

Toledo Pipe Threading Machine Company, The, Toledo, Ohio. Clamps and supports, threading and reaming machines and parts thereof. 309,117; Jan. 2; Serial No. 340,776; published Oct. 17, 1933. Class 23.

Toledo Scale Manufacturing Company, Toledo, Ohio. Weighing scales. 309,174; Jan. 2; Serial No. 329,659; published Oct. 17, 1933. Class 26.

Two-Books Magazines, Inc., New York, N. Y. Story magazine. 309,125; Jan. 2; Serial No. 340,958; published Oct. 17, 1933. Class 38.

Walgreen Co. (See Auditorium Pharmacy Company.)

Waterbury Clock Company, Waterbury, Conn. Clocks and watches. 309,098; Jan. 2; Serial No. 341,532; published Oct. 24, 1933. Class 27.

Webb Products Co., Inc., San Bernardino, Calif. Surfacer for filling cracks, mars, etc. 309,121; Jan. 2; Serial No. 340,906; published Oct. 17, 1933. Class 16.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical insulating sheets and tubes. 96,374; renewed Apr. 14, 1934.

Wilson-Jones Company, Chicago, Ill. Index tabs, indexes, and guides. 309,122; Jan. 2; Serial No. 340,907; published Oct. 17, 1933. Class 37.

Winthrop Chemical Company. (See Bayer Company, Inc., assignor.)

Wolff, H., Estate, New York, N. Y. Blank books and folders having pockets for loose papers. 309,153; Jan. 2; Serial No. 339,696; published Oct. 17, 1933. Class 37.

Wyoming Shovel Works, The, Wyoming, Pa., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Shovels, spades, and scoops. 96,768; renewed Apr. 28, 1934.

LIST OF REGISTRANTS OF LABELS

American Motor Products Corp., New York, N. Y. Seel-Pak. For Combination Metal and Cardboard Container for Automotive Replacement Products. 43,070; Jan. 2.

Bauer, Jack, New York, N. Y. "Puffs" Slenderline. For Cigarettes. 43,071; Jan. 2.

Beslin Inc., New York, N. Y. Beslin Iodine Chloride. For Nonpoisonous Solution of Iodine Chloride. 43,072; Jan. 2.

Bonded Milk Products, Inc., Buffalo, N. Y. Sparks Bonded Milk Products. For Milk Products. 43,073; Jan. 2.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Ortho Brand—Garden Volck Spray. For a Fungicide and Insecticide. 43,074–5; Jan. 2.

Connecticut Distilleries Incorporated, Westport, Conn. Old Fairfield. For Apple Brandy. 43,076; Jan. 2.

Connecticut Distilleries Incorporated, Westport, Conn. Old Mill. For Apple Brandy. 43,077; Jan. 2.

De Pere Brewing Corp., De Pere, Wis. Pioneer Lager Beer. For Lager Beer. 43,078; Jan. 2.

Freiberg & Workim Co., The, Cincinnati, Ohio. Eagle. For Gin. 43,079; Jan. 2.

Gridley Dairy Company, Inc., Milwaukee, Wis. Giant. For Ice Cream. 43,080; Jan. 2.

Harter Publishing Company, The, Cleveland, Ohio. Trikles. For Coasters (Beer Mats). 43,081; Jan. 2.

Hoffmaster, Byron T., Menasha, Wis. Hostess. For Bathroom Tissue. 43,082; Jan. 2.

Hoffmaster, Byron T., Menasha, Wis. Menasha. For Bathroom Tissue. 43,083; Jan. 2.

King Candy Company, Fort Worth, Tex. Silver Box. For Milk Chocolates. 43,084; Jan. 2.

Majitol Laboratories, Hollywood, Calif. Majitol Feminine Hygienic Powder. For Feminine Hygienic Powder. 43,085; Jan. 2.

Manischewitz, B., Co., The, Jersey City, N. J., and Cincinnati, Ohio. Tasty Matzos. For Crackers Known as Matzos. 43,086; Jan. 2.

Manischewitz, B., Co., The, Jersey City, N. J., and Cincinnati, Ohio. Tasty Whole Wheat Matzo Wafers. For Whole Wheat Matzo Wafers. 43,087; Jan. 2.

Maybaum, Paul S., New York, N. Y. Special Pack State of Maine Blueberries. For Blueberries. 43,088; Jan. 2.

Sperry Flour Company, San Francisco, Calif. Sperry. For Pancake and Waffle Flour. 43,089; Jan. 2.

LIST OF REGISTRANTS OF PRINTS

Ben-Burk, Inc., Boston, Mass. Old Mr. Boston. For Gin. 14,473; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. It's the Little Children That are Most in Danger. For Wheat Breakfast Food. 14,474; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. Fun . . . and Good for Her! For Wheat Breakfast Food. 14,475; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. Why is it so Vital? For Wheat Breakfast Food. 14,476; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. Something My Wife Didn't Know About being a Mother to Our Boy! For Wheat Breakfast Food. 14,477; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. Dangers Press Close When Children are 1 to 6. For Wheat Breakfast Food. 14,478; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. How Much "Helping Dad" can a Little Boy Safely do? For Wheat Breakfast Food. 14,479; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. That Picture Will Always Accuse Me. For Wheat Breakfast Food. 14,480; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. . . . and Infant Records Prove It! For Wheat Breakfast Food. 14,481; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. Doubly Dangerous . . This Little Span of Years from 1 to 6. For Wheat Breakfast Food. 14,482; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. Take Warning from the Infant Records! For Wheat Breakfast Food. 14,483; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. 1—2—3—4—5—6 Watch These Years of Double Danger! For Wheat Breakfast Food. 14,484; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. At the Foot of My Baby's Crib—I Made a Solemn Promise! For Wheat Breakfast Food. 14,485; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. Double Danger from 1 to 6 Years. For Wheat Breakfast Food. 14,486; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. 14 Millions of Our Little Children Facing Grave Dangers Now! For Wheat Breakfast Food. 14,487; Jan. 2.

Cream of Wheat Corporation, The, Minneapolis, Minn. Safer at Birth Than He is Now—in Certain Vital Ways! For Wheat Breakfast Food. 14,488; Jan. 2.

Lawrence, Raymond W., Chicago, Ill. Scrambled Eggs. For Puzzles. 14,489; Jan. 2.

Park, Philip R., Inc., Chicago, Ill. Parkelp. For a Mineral Food. 14,490; Jan. 2.

Premier-Pabst Corporation, Peoria Heights, Ill. To be Sure You Get Blue Ribbon Quality Ask for It. For Beer. 14,491; Jan. 2.

Premier-Pabst Corporation, Peoria Heights, Ill. After Blue Ribbon is Ordered Once It Becomes a Standing Order. For Beer. 14,492; Jan. 2.

Stearns & Foster Co., The, Cincinnati and Lockland, Ohio. Cabin in the Cotton. For Quilting Cotton. 14,493; Jan. 2.

Stearns & Foster Co., The, Cincinnati and Lockland, Ohio. Mariner's Compass. For Quilting Cotton. 14,494; Jan. 2.

Stearns & Foster Co., The, Cincinnati and Lockland, Ohio. Sweet Peas. For Quilting Cotton. 14,495; Jan. 2.

Wilson-Geyer Co., Jackson, Tenn. Southland Sol-Aqua Wallpaper. For Wall Paper. 14,496; Jan. 2.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Carter Coal Company. 309,148; Jan. 2; Serial No. 340,376; published Oct. 17, 1933.

Leather. Kistler, Lesh & Company. 96,685; renewed Apr. 28, 1934.

CLASS 2

Boxes and cloth and cellulose bags, Cardboard. Seacrest Laundry Inc. 309,154; Jan. 2; Serial No. 334,327; published Oct. 24, 1933.

Boxes, cartons, and fabricated boxes, Folding paper. Consolidated Paper Box Company. 309,170; Jan. 2; Serial No. 314,099; published Oct. 24, 1933.

Cans and bottles, Vacuum insulated. Shellwood-Johnson Company. 309,119; Jan. 2; Serial No. 340,817; published Oct. 24, 1933.

Receptacles made of pulp. Menasha Products Company. 309,179; Jan. 2; Serial No. 340,126; published Oct. 24, 1933.

CLASS 4

Hones, Razor. Terrene Products Company. 309,190; Jan. 2.

Metal polish. G. E. Bennett. 95,593; renewed Mar. 3, 1934.

Metal polishes. Pingo Company. 96,333; renewed Apr. 14, 1934.

Soap, Toilet. Colgate & Co. 42,375; renewed Apr. 12, 1934.

CLASS 5

Cement, padding, tabbing, and bookbinding. Arabol Manufacturing Company. 309,114; Jan. 2; Serial No. 340,765; published Oct. 17, 1933.

CLASS 6

Cardiac tonic and diuretic. Bayer Company. 96,390; renewed Apr. 21, 1934.

Liniment, ointment, salves, etc. M. Switalski. 309,184; Jan. 2.

Lotions. Auditorium Pharmacy Company. 40,144; renewed Apr. 21, 1933.

Medicinal elixirs and capsules. R. L. McNeil. 309,077; Jan. 2; Serial No. 339,637; published Sept. 12, 1933.

Medicine, Headache. Eureka Medical Company. 37,307; renewed Nov. 12, 1931.

Ointment. Bonetti Frères. 94,552; renewed Dec. 16, 1933.

Perfumery. Colgate & Co. 42,374; renewed Apr. 12, 1934.

Pills. J. C. Ayer Company. 94,976; renewed Jan. 20, 1934.

Pills, tablets, capsules, ointments, etc., for treating the skin, mucous membranes, etc. Medicone Company. 309,074; Jan. 2; Serial No. 340,564; published Oct. 3, 1933.

Rouge. M. Monin. 96,981–2; renewed May 12, 1934.

Class 7

Cord, binder twine, clothes lines, etc., Awning. Callaway Mills. 309,126; Jan. 2; Serial No. 341,188; published Oct. 24, 1933.

Twine. Mente & Co. 309,172; Jan. 2; Serial No. 322,780; published Sept. 27, 1932.

CLASS 9

Matches. Diamond Match Co. 95,307; renewed Feb. 10, 1934.

Matches. Diamond Match Company. 309,087; Jan. 2; Serial No. 341,357; published Oct. 24, 1933.

CLASS 11

Ink. Ault & Wiborg Carbon & Ribbon Co. 309,095; Jan. 2; Serial No. 341,418; published Oct. 24, 1933.

Typewriter ribbons and carbon papers. Codo Manufacturing Corporation. 309,151; Jan. 2; Serial No. 339,221; published Oct. 24, 1933.

CLASS 12

Stone repair material. Formostone Company. 309,180; Jan. 2.

Structural materials. Ray Proof Corporation. 309,181; Jan. 2.

CLASS 13

Belt, Chain. Chain Belt Company. 94,883; renewed Jan. 13, 1934.

Closet bowls. Standard Sanitary Manufacturing Company. 309,136; Jan. 2; Serial No. 341,138; published Oct. 24, 1933.

Closet combinations. Standard Sanitary Manufacturing Company. 309,135; Jan. 2; Serial No. 341,137; published Oct. 24, 1933.

Closet combinations. Standard Sanitary Manufacturing Company. 309,166; Jan. 2; Serial No. 341,141; published Oct. 24, 1933.

Closet seats and closet seat bumpers. Kohler Co. 309,081; Jan. 2; Serial No. 341,294; published Oct. 24, 1933.

Cocks, Gas. Mueller Brass Co. 309,089; Jan. 2; Serial No. 341,334; published Oct. 24, 1933.

Plumbing fixtures. Standard Sanitary Manufacturing Company. 309,165; Jan. 2; Serial No. 341,139; published Oct. 24, 1933.

CLASS 14

Solder having a flux core. New York Solder Co. Inc. 309,191; Jan. 2.

CLASS 16

Coating or finish, Liquid protective. Dewolfe Company. 309,152; Jan. 2; Serial No. 339,261; published Oct. 17, 1933.

Paints, lacquers, varnishes, etc. Sherwin-Williams Company. 309,113; Jan. 2; Serial No. 340,726; published Oct. 17, 1933.

Paints, paint enamels, oil colors, etc. J. M. Kohlmeier, Inc. 309,068; Jan. 2; Serial No. 340,401; published Oct. 17, 1933.

Paints, varnishes, enamels, etc. J. C. Penney Company. 309,108; Jan. 2; Serial No. 340,657; published Oct. 17, 1933.

Surfacer for filling cracks, mars, etc. Webb Products Co. 309,121; Jan. 2; Serial No. 340,906; published Oct. 17, 1933.

CLASS 17

Cigarettes. W. P. Montgomery. 309,104; Jan. 2; Serial No. 341,558; published Oct. 24, 1933.

Tobacco, Smoking. Murray, Sons & Co. 309,176; Jan. 2; Serial No. 339,757; published Oct. 24, 1933.

CLASS 21

Batteries, Dry. Manhattan Electrical Supply Co. 96,313; renewed Apr. 14, 1934.

Electrical insulating sheets and tubes. Westinghouse Electric & Manufacturing Company. 96,374; renewed Apr. 14, 1934.

CLASS 22

Coaster wagons, Children's. Radio Steel & Mfg. Co. 309,140; Jan. 2; Serial No. 341,046; published Oct. 24, 1933.

Disks used as play money, Decorated. W. H. Roll. 309,093; Jan. 2; Serial No. 341,406; published Oct. 24, 1933.

Dolls. Ideal Novelty & Toy Co. 309,103; Jan. 2; Serial No. 341,554; published Oct. 24, 1933.

Doll's tea set. Richardson Company. 309,168; Jan. 2; Serial No. 341,170; published Oct. 24, 1933.

Game. W. S. Luckett. 309,080; Jan. 2; Serial No. 341,250; published Oct. 24, 1933.

Game, Children's. Coast Carton Company. 309,137; Jan. 2; Serial No. 341,003; published Oct. 24, 1933.

Game tables. Brunswick-Balke-Collender Company. 309,091; Jan. 2; Serial No. 341,390; published Oct. 24, 1933.

Golf clubs. Hillerich & Bradsby Co. 309,102; Jan. 2; Serial No. 341,552; published Oct. 24, 1933.

CLASS 23

Barrel fillers. Pennsylvania Flexible Metallic Tubing Company. 94,664; renewed Dec. 23, 1933.

Clamps and supports, threading and reaming machines, and parts thereof. Toledo Pipe Threading Machine Company. 309,117; Jan. 2; Serial No. 340,776; published Oct. 17, 1933.

Cutlery. E. I. du Pont de Nemours and Company. 309,078; Jan. 2; Serial No. 341,243; published Oct. 17, 1933.

Engines, parts, and attachments therefor, Aircraft. Pratt & Whitney Aircraft Company. 309,173; Jan. 2; Serial No. 327,259; published Oct. 17, 1933.

Engines, Steam. Skinner Engine Company. 96,544; renewed Apr. 21, 1934.

Machines, rollers, presses, etc. General Printing Ink Corporation. 309,185; Jan. 2.

Machines, stills, pumps, and the like, and parts thereof. Duriron Castings Company. 96,259; renewed Apr. 14, 1934.

Motors and marine engines, Outboard. Johnson Motor Company. 309,124; Jan. 2; Serial No. 340,950; published Oct. 17, 1933.

Razor blades. H. Berse. 309,069–73; Jan. 2; Serial Nos. 340,511–15; published Oct. 17, 1933.

Razor blades. H. Berse. 309,076; Jan. 2; Serial No. 340,596; published Oct. 17, 1933.

Sewing machines and certain named parts thereof. K. Dietrich. 90,302; renewed Feb. 18, 1933.

Shovels, spades, and scoops. Wyoming Shovel Works. 96,768; renewed Apr. 28, 1934.

CLASS 24

Laundry-washing machines, Electric. Simmons Hardware Company. 309,139; Jan. 2; Serial No. 341,030; published Oct. 24, 1933.

CLASS 26

Cameras and films, Photographic. Behrend & Rothschild. 309,169; Jan. 2; Serial No. 341,184; published Oct. 17, 1933.

Scales, Weighing. Toledo Scale Manufacturing Company. 309,174; Jan. 2; Serial No. 329,659; published Oct. 17, 1933.

CLASS 27

Clocks and watches. Waterbury Clock Company. 309,098; Jan. 2; Serial No. 341,532; published Oct. 24, 1933.

CLASS 34

Air-conditioning unit for heating, cooling, etc., air. Fairbanks, Morse & Company. 309,177; Jan. 2; Serial No. 339,782; published Oct. 24, 1933.

Lighters, Pyrophoric gas. Geo. J. Kelly Inc. 309,144; Jan. 2; Serial No. 341,127; published Oct. 24, 1933.

CLASS 35

Brake linings and blocks and clutch facings. Multibestos Company. 309,086; Jan. 2; Serial No. 341,335; published Oct. 17, 1933.

Linings, brake blocks, and clutch facings, Brake. Multibestos Company. 309,090; Jan. 2; Serial No. 341,336; published Oct. 17, 1933.

Tires. Pharis Tire and Rubber Company. 309,188; Jan. 2.

CLASS 37

Books and folders having pockets for loose papers, Blank. H. Wolff Estate. 309,153; Jan. 2; Serial No. 339,696; published Oct. 17, 1933.

Erasers, Rubber typewriter. L. J. Hart. 309,118; Jan. 2; Serial No. 340,794; published Oct. 17, 1933.

Paper. Import Paper Company. 309,182; Jan. 2.

Pens, Steel. Joseph Gillott & Sons. 96,663–6; renewed Apr. 28, 1934.

Tabs, Indexes and guides, Index. Wilson-Jones Company. 309,122; Jan. 2; Serial No. 340,907; published Oct. 17, 1933.

Tags. Dennison Manufacturing Company. 94,617; renewed Dec. 23, 1933.

CLASS 38

Magazine, Story. Two-Books Magazines, Inc. 309,125; Jan. 2; Serial No. 340,958; published Oct. 17, 1933.

Newspaper section. Central Press Association, Inc. 309,150; Jan. 2; Serial No. 339,147; published Oct. 17, 1933.

Pamphlets. Hinde & Dauch Paper Company. 96,294; renewed Apr. 14, 1934.

Publication. J. Dubin. 309,123; Jan. 2; Serial No. 340,910; published Oct. 17, 1933.

CLASS 39

Apparel, Women's wearing. Mutual Garment Company. 309,159; Jan. 2; Serial No. 338,057; published Oct. 17, 1933.

Boots and shoes. Hood Rubber Company. 41,472; renewed Nov. 17, 1933.

CLASS 40

Dress shields. H. P. Rindskopf. 96,187–8; renewed Apr. 7, 1934.

Dress shields. H. P. Rindskopf. 96,341; renewed Apr. 14, 1934.

CLASS 42

Textile fabrics. E. C. Carter and Son. 96,101; renewed Apr. 7, 1934.

CLASS 43

Thread and spool cotton, Mercerized. Sea Island Thread Mfg. Corp. 309,127; Jan. 2; Serial No. 341,225; published Oct. 17, 1933.

CLASS 44

Hair dryers. Paramount Multi-Dryer Co. 309,158; Jan. 2; Serial No. 337,928; published Oct. 24, 1933.

Pessaries. Durex Products Inc. 309,111; Jan. 2; Serial No. 340,705; published Oct. 24, 1933.

CLASS 45

Beverages, Maltless. W. O. Chapman. 309,092; Jan. 2; Serial No. 341,394; published Oct. 24, 1933.

CLASS 46

Beet-pulp. Larrowe Milling Co. 96,429; renewed Apr. 21, 1934.

Bread. Rubel Baking Co. 309,171; Jan. 2; Serial No. 321,259; published Oct. 17, 1933.

Candies and chocolates. Josephsohn Candy Co. 309,106; Jan. 2; Serial No. 340,617; published Oct. 17, 1933.

Candy. Schandein & Lind Co. 94,205; renewed Nov. 11, 1933.

Canned sardines and tunny-fish. M. Amieux & Cie. 93,802; renewed Oct. 21, 1933.

Coffee. J. A. Folger & Co. 95,214; renewed Feb. 3, 1934.

Confection, Pop corn. J. P. Gommels. 309,175; Jan. 2; Serial No. 331,497; published Dec. 13, 1932.

Crackers or biscuits and cookies or cooky cakes, Soda. Hampton Cracker Company Inc. 309,187; Jan. 2.

Feeds, Cattle, dairy, poultry, horse, and hog. Champion Milling & Grain Company. 309,178; Jan. 2; Serial No. 340,000; published Oct. 17, 1933.

Food, Dog. St. Louis Seed Company. 309,116; Jan. 2; Serial No. 340,773; published Oct. 17, 1933.

Food product. Huyler's. 309,156; Jan. 2; Serial No. 337,191; published Oct. 17, 1933.

Fruits, Citrus. Fort Ogden Citrus Growers Association. 96,957; renewed May 12, 1934.

Fruits, Fresh citrus. D. A. Beattie. 309,189; Jan. 2.

Pie filling, candy, fish food, etc. Sears, Roebuck and Co. 309,155; Jan. 2; Serial No. 336,302; published Aug. 1, 1933.

Salad and olive oil. Modern Packing Co. 309,112; Jan. 2; Serial No. 340,722; published Oct. 17, 1933.

Salt, Table. Carey Salt Co. 309,115; Jan. 2; Serial No. 340,767; published Oct. 17, 1933.

Sausage, Pork. Stahl-Meyer, Inc. 309,157; Jan. 2; Serial No. 337 893; published Aug. 22, 1933.

Vegetables and fresh cantaloupes, Fresh. G. A. Dahl & Co. 309,163; Jan. 2; Serial No. 338,363; published Oct. 17, 1933.

Wheat gray shorts, Pure. Standard Milling Company 309,186; Jan. 2.

CLASS 47

Champagne and wines. French Champagne Distributors, Inc. 309,167; Jan. 2; Serial No. 341,162; published Oct. 24, 1933.
Wine. Henkell Co. 309,183; Jan. 2.
Wine, Port. Feuerheerd Brothers & Company Limited. 309,120; Jan. 2; Serial No. 340,869; published Oct. 24, 1933.
Wines. Bohemian Distributing Co. Ltd. 309,132; Jan. 2; Serial No. 341 238; published Oct. 24, 1933.
Wines. H. T. Dewey & Sons Co. 309,096–7; Jan. 2; Serial Nos. 341,453–4; published Oct. 24, 1933.
Wines. G. R. Firidolfi. 309,160–1; Jan. 2; Serial Nos. 338,142–3; published Oct. 24, 1933.
Wines. Fredonia Products Co. Inc. 309,143; Jan. 2; Serial No. 341,122; published Oct. 24, 1933.
Wines. Fruit Industries, Ltd. 309,085; Jan. 2; Serial No. 341,326; published Oct. 24, 1933.
Wines. Fruit Industries, Ltd. 309,088; Jan. 2; Serial No. 341,327; published Oct. 24, 1933.
Wines. Fruit Industries, Ltd. 309,094; Jan. 2; Serial No. 341,415; published Oct. 24, 1933.
Wines. Jordan Wine Company Limited. 309,079; Jan. 2; Serial No. 341,248; published Oct. 24, 1933.
Wines. Gustave Niebaum Company. 309,141; Jan. 2; Serial No. 341,095; published Oct. 24, 1933.
Wines. J. Reicher. 309,084; Jan. 2; Serial No. 341,305; published Oct. 24, 1933.
Wines. Shewan-Jones, Inc. 309,142; Jan. 2; Serial No. 341,099; published Oct. 24, 1933.
Wines. Soc. An. Bodegas Bilbainas. 309,110; Jan. 2; Serial No. 340,698; published Oct. 24, 1933.
Wines and sparkling wines, Champagne. J. W. Reish. 309,107; Jan. 2; Serial No. 340,624; published Oct. 24, 1933.
Wines, Red and white chianti. N. Antinori. 309,164; Jan. 2; Serial No. 338,445; published Oct. 24, 1933.

CLASS 48

Ale. Adam Scheidt Brewing Company. 309,138; Jan. 2; Serial No. 341,004; published Oct. 24, 1933.
Beer. Lafayette Brewery, Inc. 309,105; Jan. 2; Serial No. 341,578; published Oct. 24, 1933.
Beer and powder. Minneapolis Brewing Company. 94,249; renewed Nov. 18, 1933.
Malt beverages. Fitger Company. 309,099–101; Jan. 2; Serial Nos. 341,546–8; published Oct. 24, 1933.
Malt beverages. Brauerei Joh. Humbser A.-G. 309,145; Jan. 2; Serial No. 340,339; published Oct. 24, 1933.

CLASS 49

Alcoholic bitters. George Benz Sons, Inc. 309,128; Jan. 2; Serial No. 341,229; published Oct. 24, 1933.
Brandy. Adet, Seward (Ste. Anonyme). 309,147; Jan. 2; Serial No. 340,374; published Oct. 24, 1933.
Gin, liquors, bitters, etc. N. V. Likeurstokerij Wijnand Fockink. 309,082; Jan. 2; Serial No. 341,295; published Oct. 24, 1933.
Gin, liquors, bitters, etc. N. V. Likeurstokerij Wijnand Fockink. 309,083; Jan. 2; Serial No. 341,297; published Oct. 24, 1933.
Whisky. George Benz Sons, Inc. 309,129–31; Jan. 2; Serial Nos. 341,231–3; published Oct. 17, 1933.
Whisky. Bloch Bros. 309,075; Jan. 2; Serial No. 340,570; published Oct. 24, 1933.
Whisky. Craigball Bonding Company. 309,146; Jan. 2; Serial No. 340,342; published Oct. 24, 1933.
Whisky. Frankfort Distillery, Inc. 309,066; Jan. 2; Serial No. 340,593; published Sept. 12, 1933.
Whisky. Frankfort Distillery, Inc. 309,067; Jan. 2; Serial No. 340,304; published Oct. 24, 1933.
Whisky. Frankfort Distillery, Inc. 309,109; Jan. 2; Serial No. 340,679; published Oct. 24, 1933.
Whisky. Frankfort Distillery, Inc. 309,149; Jan. 2; Serial No. 340,391; published Oct. 17, 1933.
Whisky. Lang Brothers, Limited. 309,162; Jan. 2; Serial No. 338,155; published Oct. 17, 1933.
Whisky. Mackenzie Brothers, Dalmore, Limited. 309,133–4; Jan. 2; Serial Nos. 341,132–3; published Oct. 17. 1933.

LIST OF LABELS

Beslin Iodine Chloride. For Nonpoisonous Solution of Iodine Chloride. Beslin Inc. 43,072; Jan. 2.
Eagle. For Gin. Freiberg & Workun Co. 43,079; Jan. 2.
Giant. For Ice Cream. Gridley Dairy Company. 43,080; Jan. 2.
Hostess. For Bathroom Tissue. B. T. Hoffmaster. 43,082; Jan. 2.
Majitol Feminine Hyglenic Powder. For Feminine Hyglenic Powder. Majitol Laboratories. 43,085; Jan. 2.
Menasha. For Bathroom Tissue. B. T. Hoffmaster. 43,083; Jan. 2.
Old Fairfield. For Apple Brandy. Connecticut Distilleries Incorporated. 43,076; Jan. 2.
Old Mill. For Apple Brandy. Connecticut Distilleries Incorporated. 43,077; Jan. 2.
Ortho Brand—Garden Voick Spray. For a Fungicide and Insecticide. California Spray-Chemical Corporation. 43,074–5; Jan. 2.
Pioneer Lager Beer. For Lager Beer. De Pere Brewing Corp. 43,078; Jan. 2.
"Puffs" Slenderline. For Cigarettes. J. Bauer. 43,071; Jan. 2.
Seel-Pak. For Combination Metal and Cardboard Container for Automotive Replacement Products. American Motor Products Corp. 43,070; Jan. 2.
Silver Box. For Milk Chocolates. King Candy Company. 43,084; Jan. 2.
Sparks Bonded Milk Products. For Milk Products. Bonded Milk Products, Inc. 43,073; Jan. 2.
Special Pack State of Maine Blueberries. For Blueberries. P. S. Maybaum. 43,088; Jan. 2.
Sperry. For Pancake and Waffle Flour. Sperry Flour Company. 43,089; Jan. 2.
Tasty Matzos. For Crackers Known as Matzos. B. Manischewitz Co. 43,086; Jan. 2.
Tasty Whole Wheat Matzo Wafers. For Whole Wheat Matzo Wafers. B. Manischewitz Co. 43,087; Jan. 2.
Trikles. For Coasters (Beer Mats). Harter Publishing Company. 43,081; Jan. 2.

LIST OF PRINTS

After Blue Ribbon is Ordered Once It Becomes a Standing Order. For Beer. Premier-Pabst Corporation. 14,492; Jan. 2.
. . . and Infant Records Prove It! For Wheat Breakfast Food. Cream of Wheat Corporation. 14,481; Jan. 2.
At the Foot of My Baby's Crib—I Made a Solemn Promise. For Wheat Breakfast Food. Cream of Wheat Corporation. 14,485; Jan. 2.
Cabin in the Cotton. For Quilting Cotton. Stearns & Foster Co. 14,493; Jan. 2.
Dangers Press Close When Children are 1 to 6. For Wheat Breakfast Food. Cream of Wheat Corporation. 14,478; Jan. 2.
Double Danger from 1 to 6 Years. For Wheat Breakfast Food. Cream of Wheat Corporation. 14,486; Jan. 2.
Doubly Dangerous . . . This Little Span of Years from 1 to 6. For Wheat Breakfast Food. Cream of Wheat Corporation. 14,482; Jan. 2.
14 Millions of Our Little Children Facing Grave Danger Now! For Wheat Breakfast Food. Cream of Wheat Corporation. 14,487; Jan. 2.
Fun . . . and Good for Her! For Wheat Breakfast Food. Cream of Wheat Corporation. 14,475; Jan. 2.
How Much "Helping Dad" Can a Little Boy Safely Do? For Wheat Breakfast Food. Cream of Wheat Corporation. 14,479; Jan. 2.
It's the Little Children That are Most in Danger. For Wheat Breakfast Food. Cream of Wheat Corporation. 14,474; Jan. 2.
Mariner's Compass. For Quilting Cotton. Stearns & Foster Co. 14,494; Jan. 2.
Old Mr. Boston. For Gin. Ben-Burk, Inc. 14,473; Jan. 2.
1—2—3—4—5—6 Watch These Years of Double Danger! For Wheat Breakfast Food. Cream of Wheat Corporation. 14,484; Jan. 2.
Parkelp. For a Mineral Food. Philip R. Park, Inc. 14,490; Jan. 2.
Safer at Birth Than He is Now—in Certain Vital Ways! For Wheat Breakfast Food. Cream of Wheat Corporation. 14,488; Jan. 2.
Scrambled Eggs. For Puzzles. R. W. Lawrence. 14,489; Jan. 2.
Something My Wife Didn't Know About Being a Mother to Our Boy! For Wheat Breakfast Food. Cream of Wheat Corporation. 14,477; Jan. 2.
Southland Sol-Aqua Wallpaper. For Wall Paper. Wilson-Geyer Co. 14,496; Jan. 2.
Sweet Peas. For Quilting Cotton. Stearns & Foster Co. 14,495; Jan. 2.
Take Warning From the Infant Records! For Wheat Breakfast Food. Cream of Wheat Corporation. 14,483; Jan. 2.
That Picture Will Always Accuse Me. For Wheat Breakfast Food. Cream of Wheat Corporation. 14,480; Jan. 2.
To be Sure You Get Blue Ribbon Quality Ask for It. For Beer. Premier-Pabst Corporation. 14,491; Jan. 2.
Why is It So Vital? For Wheat Breakfast Food. Cream of Wheat Corporation. 14,476; Jan. 2.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abert, Hamilton, New York, N. Y., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Friction facing. 1,941,872; Jan. 2.
Abrahams, Alexander I., New York, N. Y. Sound unit. 1,941,776; Jan. 2.
Adams, James L., jr., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Induction welder. 1,941,526; Jan. 2.
Addressograph Company. (See Curtis, Franklin E., assignor.)
Addressograph Company. (See Eley, A., and Hodgkinson, assignors.)
Addressograph Company. (See Gollwitzer, Walter T., assignor.)
Addressograph Company. (See Hubbard, Henry E., assignor.)
Advance Machine Company. (See Antoine, A. D., and Gebert, assignors.)
Agfa Ansco Corporation. (See Brunken, Johannes, assignor.)
Ainsworth, Harry G., Aurora, Ill. Door operating mechanism. 1,941,454; Jan. 2.
Aircraft Radio Corporation. (See Drake, Frederick H., assignor.)
Air Reduction Company. (See Anderson, James L., assignor.)
Air Reduction Company et al. (See Steere, Frank W., assignor.)
Air-Way Electric Appliance Corporation. (See Riebel, Frederick, jr., assignor.)
Air-Way Electric Appliance Corporation. (See Riebel, F., and Dow, assignors.)
Aktiebolaget Nomy. (See Wallgren, August G. F., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Fleischammer, Erich, assignor.)
Alberg, Henry, Millstadt, Ill. Cigar holder. Des. 91,258; Jan. 2.
Albert, Joseph A., assignor to A. M. Franchi, New York, N. Y. Brake. 1,941,965; Jan. 2.
Albrecht, Christian A., Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Magazine adjusting device for typographical composing machines. 1,941,729; Jan. 2.
Albrecht, Christian A., Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Trimming mechanism of typographical line casting machines. 1,941,730; Jan. 2.
Alden, Herbert O., Oakland, assignor to Shell Oil Company, San Francisco, Calif. Service station. Des. 91,291; Jan. 2.
Allen, Henry H., Huntington Bay, Long Island, N. Y., assignor to Bemis Bro. Bag Company, St. Louis, Mo. Bag. 1,941,509; Jan. 2.
Allen-Sherman-Hoff Company, The. (See Mylting, Lauritz E., assignor.)
Alliot, Enrique. (See Bachmann, R., and Alliot.)
Allis-Chalmers Manufacturing Company. (See Marti, Othmar K., assignor.)
Altvater, Arthur W., University City, Mo. Cutting, trimming, and ornamenting machine. 1,941,966; Jan. 2.
Aluminum Company of America. (See Burdick, John S., assignor.)
Alvey Conveyer Manufacturing Company. (See Worrall, Roy R., assignor.)
Alviset, Gustave A., Houston, Tex. Combination control and gate valve. 1,942,252; Jan. 2.
Amato, Frank. (See Groener, Samuel, assignor.)
American Air Filter Company. (See Sylvan, Stig G: son, assignor.)
American Brakeblok Corporation. (See Blume, William A., assignor.)
American Brake Shoe and Foundry Company, The. (See Fahrenwald, Frank A., assignor.)
American Brake Shoe and Foundry Company, The. (See Winters, Wilbur H., assignor.)
American Cable Company. (See Schmitz, Herrmann, assignor.)
American Engineering Corporation. (See Nixon, J. D., assignor and Park.)
American Fabrics Company, The. (See Page, Samuel H., assignor.)
American Glanzstoff Corporation. (See Schultz, Peter A., assignor.)
American Lurgi Corporation. (See Schiechel, Maximilian, assignor.)
American Sales Book Company. (See Bottle, Edward K., assignor.)
American Pad and Textile Company, The. (See Brown, Frederick L., assignor.)
American Reenforced Paper Company. (See Gibbs, George E., assignor.)
American Scientific Instrument Company, The. (See Hindle, Frederic O., assignor.)
American Shoe Machinery and Tool Company. (See Krag, Harry W., assignor.)
American Smelting and Refining Company. (See Betterton, Jesse O., assignor.)
American Sterilizer Company. (See Dyckes, George J., assignor.)
American Telephone and Telegraph Company. (See Schramm, Fred W., assignor.)
American Telephone and Telegraph Company. (See Stone, John S., assignor.)
American Volth Contact Company. (See Lell, Jacob, assignor.)
Amos, Clifford J., assignor of one-half to J. J. Crowley, St. Paul, Minn. Indicator map. 1,941,777; Jan. 2.
Amsler, Walter O., Toledo, Ohio, assignor to Simplex Engineering Company, Washington, Pa. Method of and apparatus for making glass. 1,941,778; Jan. 2.
Amsler, Walter O., Toledo, Ohio, assignor to Simplex Engineering Company, Washington, Pa. Glass tank. 1,941,779; Jan. 2.
Anderson, George A., Worcester, assignor to United States Envelope Company, Springfield, Mass. Producing metallic fastener blanks. 1,942,043; Jan. 2.
Anderson, James L., Tenafly, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Welding torch. 1,942,352; Jan. 2.
Andreas, Arno, Munster, Germany. Bag folding machine. 1,942,159; Jan. 2.
Andrews, Champe S., North Chattanooga, Tenn., assignor to The Guardian Trust Company, Cleveland, Ohio. Box. 1,941,528; Jan. 2.
Andrews, Charles W., Duluth, Minn., and W. B. Chapman, Jackson Heights, N. Y. Gas generator. 1,941,455; Jan. 2.
Andrus, Burton R., Eugene, Oreg. Saw-filing device. 1,942,016; Jan. 2.
Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental flask press. 1,941,780; Jan. 2.
Antoine, Alfred D., Chicago, and A. E. Gebert, Wilmette, assignors to Advance Machine Company, Chicago, Ill. Vending machine. 1,941,781; Jan. 2.
Appel, George C., R. W. Vicarey, and J. D. Wanvig, jr., assignors to Globe-Union Co., Milwaukee, Wis. Storage battery and making the same. 1,942,350; Jan. 2.
Appel, George C., R. W. Vicarey, and J. D. Wanvig, jr., assignors to Globe-Union Mfg. Co., Milwaukee, Wis. Storage battery. 1,942,351; Jan. 2.
Applegate, Lindsay M., Portland, Oreg., assignor to J. S. Brady, Somerset, Md. Sound transmission circuits. 1,941,591; Jan. 2.
Appugliese, Louis, Jersey City, N. J. Window back rest. 1,942,233; Jan. 2.
Armour, James W., assignor to Riley Stoker Corporation, Worcester, Mass. Beater element for pulverizing apparatus. 1,941,923; Jan. 2.
Armstrong, Percy A. E., New York, N. Y. Ferrous alloy. 1,941,648; Jan. 2.
Arnold, Philip S., Flint, assignor of one-fifth to C. E. Wisner, Detroit, Mich. Grinding gauge. 1,941,456; Jan. 2.
Aronson, Louis V., assignor to Art Metal Works, Inc., Newark, N. J. Pyrophoric lighter arrangement. 1,941,873; Jan. 2.
Arrault, Jules, Chalon-sur-Saone, assignor to Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Apparatus for maintaining the thickness of drawn glass. 1,941,924; Jan. 2.
Art Metal Works, Inc. (See Aronson, Louis V., assignor.)
Ash, Charles S., Birmingham, Mich. Touring car body. Des. 91,259; Jan. 2.
Ash, James W., Middletown, Ohio, assignor to The Miami Cabinet Company. Hose reel and similar device. 1,942,388; Jan. 2.
Aske, Irving E., Minneapolis, Minn. Air heater. 1,941,527; Jan. 2.
Askin, Joseph, assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. 1,942,380; Jan. 2.
Asociacion de Productores de Yodo de Chile. (See Hofmann, Karl A., assignor.)
Atlantic Refining Company, The. (See Ferris, Seymour W., assignor.)
Austin, Arthur O., near Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Transmission line. 1,941,731; Jan. 2.
Austin, Arthur O., near Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Diverting energy from transmission lines. 1,941,732; Jan. 2.

Automatic Drive and Transmission Company. (See Vail, Henry H., assignor.)
Automatic Fluid Distributing Company (Proprietary) Limited. (See Getas, Emile, assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Automatic Sprinkler Company of America. (See Lowe, Ernest A., assignor.)
Averan, André. (See Kitroser, I., and Averan.)
Aylor, Frank O., Cincinnati, Ohio. Ash tray. Des. 91,260; Jan. 2.
Babcock, Arthur H. (See Babcock, Erlow T. and A. H.)
Babcock, Erlow T. and A. H., North Loup, Nebr. Liquid fuel burner. 1,941,820; Jan. 2.
Babcock & Wilcox Company, The. (See Hutton, Frank E., assignor.)
Babcock Wilcox Company, The. (See Jacobus, David S., assignor.) &
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Babcock & Wilcox Company, The. (See Lucke, Charles E., assignor.)
Bacharach, Eric W. (See Hine, Alfred E., assignor.)
Bachmann, René, and E. Aillot, Buenos Aires, Argentina. Wind motor for wells. 1,942,081; Jan. 2.
Bacon, Raymond F., Bronxville, N. Y., and W. Judson, Newgulf, Tex. Roasting pyrites fines. 1,941,592; Jan. 2.
Badanes, Saul, Brooklyn, N. Y. Counting and calculating card. 1,941,733; Jan. 2.
Baer, Lawrence E., Attleboro, Mass., assignor to The Baer & Wilde Co., Inc. Chain. Des. 91,261; Jan. 2.
Baer & Wilde Co., The. (See Baer, Lawrence E., assignor.)
Bager, Ernest, assignor to J. Milhening, Inc., Chicago, Ill. Reflecting base jewel mounting. 1,941,782; Jan. 2.
Bahr, Charles A., Marion, Ind., assignor to W. H. Ellis, jr., Glendale, Ohio. Indenting paper. 1,941,783; Jan. 2.
Baker, Mervin B., Leland, assignor to Deere & Company, Moline, Ill. Harvester. 1,941,821; Jan. 2.
Balazinski, Louis, East Port Chester, Conn. Safety gas cock. 1,941,850; Jan. 2.
Baldwin, Frank, Yonkers, N. Y. Machine for wrapping cakes or the like. 1,942,017; Jan. 2.
Balliet, A. H., Corporation. (See Neely, Frank R., assignor.)
Barbulesco, Constantin D. (See Edwards, P. S., and Barvulesco.)
Barcalo, Edward J., assignor to Six-Way Corporation, Buffalo, N. Y. Pillow or similar article. Des. 91,262; Jan. 2.
Bard, Dale R., Bryan, Ohio. Hot air furnace. 1,941,822; Jan. 2.
Barényi, Árpád, Berlin-Lichterfelde, assignor to Voigtlander & Sohn Aktiengesellschaft, Brunswick, Germany. Photographic camera. 1,941,784; Jan. 2.
Barks, Frank S., assignor to Lincoln Engineering Company, St. Louis, Mo. Turret support for lubricating apparatus. Des. 91,263; Jan. 2.
Barnes Scale Company. (See Barnes, W. J., and Winkler, assignors.)
Barnes, Walton J., Birmingham, and H. G. Winkler, assignors to Barnes Scale Company, Detroit, Mich. Slicing machine. 1,941,532; Jan. 2.
Barnett, Roy I. (See St. John, Mary W., assignor.)
Barrett Company The. (See Cline, Edwin L., assignor.)
Barrett, Company, The. (See Miller, Stuart P., assignor.)
Barrett Company, The. (See Weiss, John M., assignor.)
Barrington, William F., Quincy, Mass. Sprinkler. 1,942,271; Jan. 2.
Bassett, George B., Buffalo, N. Y. Water meter. 1,941,649; Jan. 2.
Bassett, Robert S., Buffalo, N. Y. Liquid meter. 1,941,925; Jan. 2.
Bates, Fred G., Highland Park, Mich. Hinge. 1,941,529; Jan. 2.
Bates, Harry T., et al. (See Brazeau, Lloyd F., assignor.)
Baumann, Karl, Urmston, England, assignor to Westinghouse Electric & Manufacturing Company. Surface condenser. 1,941,650; Jan. 2.
Baumann, Paul, Ludwigshafen-on-the-Rhine, H. Tanneberger, Mannheim, and H. Schilling, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Separation of gas mixtures. 1,942,131; Jan. 2.
Bay State Optical Company. (See Nerney, George E., assignor.)
Beaman, Berry N., et al. (See Taggart, Archie D., assignor.)
Beavers, Robert S., Providence, R. I., assignor to May Hosiery Mills, Nashville, Tenn. Knitting machine. 1,942,322; Jan. 2.
Bebie, Jules, St. Louis, J. W. Livingston, Kirkwood, and M. Luthy, St. Louis, Mo., assignors, by mesne assignments to Monsanto Chemical Company. Recovering alkaloids from cocoa products. 1,942,160; Jan. 2.
Beck, Arthur R., and J. S. Warren, Chicago, Ill. Elevating and dumping device. 1,941,530; Jan. 2.
Becker, Edmund H. (See Martus, M. L., and Becker.)
Beers, George L., Merchantville, N. J., assignor to Westinghouse Electric & Manufacturing Company. Amplifying system. 1,942,234; Jan. 2.
Behlmer, John E., Dubuque, Iowa. Fluid compressor. 1,941,651; Jan. 2.
Bell, Edward B., Lowell, Mass. Brake mechanism. 1,942,044; Jan. 2.
Bell & Howell Company, The. (See Howell, Albert S., assignor.)
Bell, Raymond T., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Metal floor construction. 1,941,967; Jan. 2.
Bellavia, Peter, Garwood, N. J. Convertible excursion outfit. 1,941,652; Jan. 2.
Bellini, Ettore, Sarcelles, France, assignor to Compagnie Generale de Telegeraphie sans Fil. Error compensating device for radiogoniometers. 1,941,457; Jan. 2.
Bellocq, Toribio, Buenos Aires, Argentina. Plumbing. 1,941,593; Jan. 2.
Belloy, Antoine. (See Nemirovsky, Leon, assignor.)
Bem, Joseph P., Oakland, assignor to Pacific Pitting Machine Company Inc., Fresno, Calif. Half-fruit pitting and coring machine. 1,941,874; Jan. 2.
Bem, Joseph P., Oakland, assignor to Pacific Pitting Machine Company Inc., Fresno, Calif. Peach pitting support and tip cutter. 1,941,875; Jan. 2.
Bemis Bro. Bag Company. (See Allen, Henry H., assignor.)
Bemis Bro. Bag Company. (See Scruggs, Thomas M., assignor.)
Bendix Aviation Corporation. (See Minorsky, Nicolai, assignor.)
Bendix Brake Company. (See Sanford, Roy S., assignor.)
Bendix Research Corporation. (See Houston, George F., assignor.)
Benesh, Alvin H., St. Paul, Minn., assignor to Chain Belt Company, Milwaukee, Wis. Fluid cleaning apparatus. 1,942,381; Jan. 2.
Benham, William T., Norwood, Ohio, assignor to The Mosler Lock Company, Inc., Covington, Ky. Antibandit electric time lock. 1,942,045; Jan. 2.
Bennett, Arthur F. (See Graves, B. P., and Bennett.)
Bennett, Joseph S., Bradford, Pa. Indicator for aircraft. 1,941,533; Jan. 2.
Bens, Samuel J., New York, N. Y. Pack holder and cutter. 1,941,458; Jan. 2.
Bentz, Harry, Montclair, N. J. Proofing dough. 1,941,653; Jan. 2.
Berger, Kornel, New York, N. Y. Apparatus for and method of forming internal threads by stamping dies. 1,942,353; Jan. 2.
Berhley, Fred. (See Ellman, W., and Berhley.)
Berry, Harry C., Little Rock, Ark. False teeth. 1,941,735; Jan. 2.
Bertsch, Rudolf, Rottweil-on-the-Neckar, Germany. Shoe lace clasp. 1,941,654; Jan. 2.
Betterton, Jesse O., Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y. Forming alloys. 1,941,534; Jan. 2.
Betterton, Jesse O., Metuchen, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Forming alloys. 1,941,535; Jan. 2.
Biancalana, Eugene, Richmond Hill, N. Y. Refrigerated ment grinder. 1,942,082; Jan. 2.
Biancalana, Eugene, Brooklyn, N. Y. Refrigerated meat grinder. 1,942,083; Jan. 2.
Bizzarri, Anthony, New York, N. Y. Lift-hand truck. 1,942,272; Jan. 2.
Black, Lee J., Beaumont, Tex. Air conditioner. 1,941,734; Jan. 2.
Black, William A., Montclair, N. J., assignor to Fairchild Aerial Camera Corporation, Woodside, Long Island, N. Y. Camera mount. 1,942,161; Jan. 2.
Blackhawk Mfg. Co. (See Mandl, Sigmund, assignor.)
Blackstock, Gibbs, Toronto, Ontario, Canada. Reversible freewheel clutch transmission. 1,942,197; Jan. 2.
Blackstock, Gibbs, Toronto, Ontario, Canada. Automatic roller clutch transmission. 1,942,198; Jan. 2.
Blackwood, Lloyd W., Spokane, Wash. Resilient wheel. 1,942,018; Jan. 2.
Blankenship, John R., Detroit, Mich. Cigarette holder. 1,941,531; Jan. 2.
Blinn, Harry M., Baltimore, and H. T. Hunter, Catonsville, Md., assignors to Doughnut Machine Corporation, New York, N. Y. Fluid flow control. 1,942,132; Jan. 2.
Blodgett, George R., assignor to Moto Meter Gauge & Equipment Corporation, Toledo, Ohio. Gas analyzer. 1,942,323; Jan. 2.
Blomqvist, Gustav M. J., and F. O. J. Kinley, Stockholm, Sweden. Electromagnetic hammer. 1,941,655; Jan. 2.
Blume, William A., Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y. Friction brake. 1,941,656; Jan. 2.
Bock, Charles S., assignor to A. Hoffman, Chicago, Ill. Window fastener and bolt. 1,941,459; Jan. 2.
Boden, Ernest G., assignor to The Timken Roller Bearing Company, Canton, Ohio. Double row roller bearing. 1,941,460; Jan. 2.
Boecking, Ewald. (See Frappier, L. S., and Boecking.)
Boehm, Robert M., assignor to Masonite Corporation, Laurel, Miss. Hard vegetable fiber product of high strength and making same. 1,941,536; Jan. 2.
Boehringer, C. F., & Soehne G. m. b. H. (See Müller, R., Hatzig, and Rabald, assignors.)
Boehringer, C. F., & Soehne G. m. b. H. (See Stelkens, W., and Müller, assignors.)

Bogaerts, Hubert, Berlin-Halensee, assignor to Metallreliefbild G. m. b. H., Berlin, Germany. Producing plastic pictures from metal foil. 1,941,736; Jan. 2.
Boggio, Aldo, Milan, Italy. Method and relative device for applying brakes to aeroplane wheels. 1,942,235; Jan. 2.
Bohland, Carl P., St. Paul, Minn. Pencil sharpener. 1,941,823; Jan. 2.
Boosey, Edward W. N., Detroit, Mich. Seepage joint. 1,941,537; Jan. 2.
Boosey, Edward W. N., Detroit, Mich. Drainage system and fitting therefor. 1,941,926; Jan. 2.
Booth, Byron C. (See Tichenor, C. M., and Booth.)
Booth, William, Douglaston Park, N. Y. See-saw swing. 1,941,824; Jan. 2.
Borden, Arthur G., assignor to The Borden Method, Inc., Washington, D. C. Hair waving apparatus. 1,941,594; Jan. 2.
Borden Method, Inc., The. (See Borden, Arthur G., assignor.)
Borg, George W., Corporation. (See Hobbs, John W., assignor.)
Borg-Warner Corporation. (See Swennes, Benjamin A., assignor.)
Boring, Clarence H., assignor of one-half to Firmen Lambert, New Straitsville, Ohio. Flow valve for oil wells. 1,941,851; Jan. 2.
Bosworth, Frederic M., Rocky River, and H. D. Stecher, Lakewood, assignors to The Weatherhead Company, Cleveland, Ohio. Control device. 1,942,273; Jan. 2.
Bottle, Edward K., deceased, by S. J. Bottle, administratrix, Elmira, N. Y., assignor to American Sales Book Company, Limited. Record. 1,941,876; Jan. 2.
Bottle, Sara J., administratrix. (See Bottle, Edward K.)
Bottome, Turner D., Indianapolis, Ind. Testing metals by polarization. 1,942,046; Jan. 2.
Bouton, Edgar M., Chicago, Ill., and F. E. Lewis, East Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Elevator dispatching system. 1,942,236; Jan. 2.
Bowman, Ira H., trustee. (See Hillard, Henry G., assignor.)
Bowman, Samuel B., Zanesville, Ohio, and T. Stenhouse, Washington, Pa., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Glass transfer mechanism. 1,942,084; Jan. 2.
Bracke, Robert F., Chicago, assignor, by mesne assignments, to L. A. Williams, Evanston, and C. C. Bradbury, Glencoe, Ill. Carburetor. 1,942,199; Jan. 2.
Bradbury, Clifford C., et al. (See Bracke, Robert F., assignor.)
Bradbury, John F., Marysville, Mich. Folding table. 1,941,927; Jan. 2.
Bradbury, John H. (See Russell, F. C., and Bradbury.)
Bradford, Edward S., jr., Longmeadow, assignor to Springfield Wire & Tinsel Co., West Springfield, Mass. Material for scouring devices. 1,941,928; Jan. 2.
Brady, John B. (See Applegate, Lundsay M., assignor.)
Brady, John B. (See Mueller, Richard P., assignor.)
Brangs, Julius, jr., Solingen, Germany. Scissors and manufacturing the same. 1,942,324; Jan. 2.
Brazeau, Lloyd F., assignor of one-fourth to P. Palmblad and one-fourth to H. T. Bates, Portland, Oreg. Exercising ball. 1,941,877; Jan. 2.
Bremer-Tully Manufacturing Company. (See Piety, Raymond G., assignor.)
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Brigida, Joseph, New York, N. Y. Electrolysis apparatus stand. Des. 91,264; Jan. 2.
Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Electrically heated apparatus. 1,942,382; Jan. 2.
Bronstien, Edward L., St. Paul, Minn. Spring mechanism. 1,941,657; Jan. 2.
Brown, Carleton, Westmount, Quebec, Canada. Fastening means for expansible bodies. 1,942,237; Jan. 2.
Brown Company. (See Burke, Edmund, assignor.)
Brown, Frederick L., assignor to The American Pad and Textile Company, Greenfield, Ohio. Cushion construction. 1,941,785; Jan. 2.
Brown and Sharpe Manufacturing Company. (See Graves, B. P., and Bennett, assignors.)
Brown & Sharpe Manufacturing Company. (See Martin, Harold E., assignor.)
Brown, Walter O., Detroit, Mich. Folding chair. Des. 91,292; Jan. 2.
Brün, Willi, Bridgeport, Conn., assignor to Remington Arms Company, Inc. Priming mixture. 1,942,274; Jan. 2.
Brunken, Johannes, Dessau in Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic gelatin layer. 1,941,852; Jan. 2.
Brust, Erich, Brooklyn, N. Y. Window construction. 1,942,200; Jan. 2.
Bucherer, Max, Berlin-Reinickendorf West, Germany. Carburetor. 1,941,658; Jan. 2.
Budd, Edward G., Manufacturing Company. (See Ragsdale, Earl J. W., assignor.)
Budd Wheel Company. (See Ekxergian, Carolus L. assignor.)
Buffalo Foundry & Machine Company. (See Kermer, Martin J., assignor.)
Builders Iron Foundry. (See Wilde, Kurt, assignor.)
Bull, Arthur W., Leonia, N. J., and E. R. Ramsey, Larchmont, assignors to The Dorr Company, Inc., New York, N. Y. Manufacture of sugar. 1,941,461; Jan. 2.
Bunce, Earl H., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Producing coked fuel agglomerates. 1,941,462; Jan. 2.
Burdick, John S., Hamburg, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa. Musical instrument of the viol and violine types. 1,941,595; Jan. 2.
Burdick, Isaac J., Saratoga Springs, N. Y. Nonrefillable container. 1,941,929; Jan. 2.
Burke, Edmund, assignor to Brown Company, Portland, Maine. Electric insulator. 1,942,133; Jan. 2.
Burke, Thomas R., Chicago, Ill. Valve shield. 1,941,596; Jan. 2.
Burnham, George A., Sangus, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. High-tension electric distributing system and apparatus. 1,941,463; Jan. 2.
Burroughs Adding Machine Company. (See Muller, Robert L., assignor.)
Burrows, Eastman A., Chicago, Ill., assignor of one-half to Thomas D. Campbell, Hardin, Mont. Method of and apparatus for the treatment and use of liquid fuels. 1,941,968; Jan. 2.
Burt, Harold A., St. Albans, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. 1,941,737; Jan. 2.
Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system for railroads. 1,942,134; Jan. 2.
Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling systems. 1,942,135; Jan. 2.
Butterfield, Vernon J., assignor to Tropic-Aire Incorporated, Minneapolis, Minn. Heating apparatus for automotive vehicles. 1,941,825; Jan. 2.
Butterman, Herman H. (See Rodrian, Richard, assignor.)
Calabrese, Ralph, Brooklyn, N. Y. Door control and operating device. 1,941,969; Jan. 2.
Caldwell, Lyle, Los Angeles, and R. T. Howes, assignors, by mesne assignments, to California First National Bank of Long Beach, Long Beach, Calif., trustee. Neutralization of hydrocarbon oils. 1,941,970; Jan. 2.
California First National Bank of Long Beach, trustee. (See Caldwell, L., and Howes, assignors.)
Callahan, George F., Owensboro, Ky., assignor to Westinghouse Lamp Company. Mercury switch. 1,941,971; Jan. 2.
Cameron Can Machinery Co. (See Cameron, William, assignor.)
Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Double seamer. 1,941,972; Jan. 2.
Campbell, Charles H., Kent, Ohio. Heat insulation. 1,942,162; Jan. 2.
Campbell, Duncan. (See Fraser, J., and Campbell.)
Campbell, Thomas D. (See Burrows, Eastman A., assignor.)
Canfield, Robert W., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Suction gathering bottle machine with overlapping cycles. 1,941,878; Jan. 2.
Cantalupo, Pasquale. (See Lupo, Giacomo, assignor.)
Cap Coupler Corp., The. (See Knudsen, Carl B., assignor.)
Carbide and Carbon Chemicals Corporation. (See Law, George H., assignor.)
Carborundum Company, The. (See Tone, Frank J., assignor.)
Card, Anice, St. Louis, Mo., assignor to Steiner Sales Company, Chicago, Ill. Towel-dispensing apparatus. 1,941,826; Jan. 2.
Carey, Bartholomew J., Genesee, Idaho. Agitator for sifters. 1,942,275; Jan. 2.
Carey, Charles E., Seattle, Wash. Air conditioning device. 1,942,085; Jan. 2.
Carley, Albert, A. Schmidt and K. Wunsch, Bridgeport, Conn. Portable hand toothpowder dispenser. 1,941,786; Jan. 2.
Carlson, Eric S. (See Schnell, W., and Carlson.)
Carson, William W., jr. (See Davies, L. L., Resek, and Carson, jr.)
Carter, Ainslie T., Coldwater, and Edmund W. Moore, assignors to General Railway Signal Company, Rochester, N. Y. Light signal lens. 1,942,136; Jan. 2.
Carter Carburetor Corporation. (See Mollberg, Byron, assignor.)
Caterpillar Tractor Co. (See Gustafson, Carl A., assignor.)
Catlett, James T., Scotia, N. Y., assignor to General Electric Company. Arc welding. 1,942,047; Jan. 2.
Cavagnaro, John J., Ridgewood, N. J. Automatic web measuring and feeding device. 1,941,597; Jan. 2.
Cawl, Franklin R., et al. (See Milone, Samuel, assignor.)
Celanese Corporation of America. (See Daly, Arthur J., assignor.)
Celanese Corporation of America. (See Dickie, W. A., and Hale, assignors.)
Celanese Corporation of America. (See Eichengrün, Arthur, assignor.)
Celanese Corporation of America. (See Moss, William H., assignor.)
Celanese Corporation of America. (See Moss, W. H., and White, assignors.)
Central Scientific Company. (See Dubrovin, John, assignor.)

Central Waxed Paper Co. (See Hawley, John F., assignor.)
Chain Belt Company. (See Benesh, Alvin H., assignor.)
Chambers, William E., West Chester, Pa. Apparatus for grading mushrooms. 1,942,238; Jan. 2.
Chapman, William B. (See Andrews, C. W., and Chapman.)
Chauvet, Gabriel, Paris, France. Metal window frame. 1,942,239; Jan. 2.
Cheatham, Robert J., Chevy Chase, Md., assignor to A. M. Hyde, as Secretary of Agriculture of the United States of America. Fabric bag for fruits and vegetables. 1,942,086; Jan. 2.
Cheesman-Elliott Co. Inc. (See Ward, Gilbert J., assignor.)
Chernow, Michael, Brooklyn, N. Y. Monogram. 1,942,240; Jan. 2.
Chicago Pump Company. (See Thom, George L., assignor.)
Chicago, University of. (See Koch, F. C., McGee, and Gallagher, assignors.)
Christensen, William. (See Court, F. T., Christensen, and Johnson.)
Christman, William T., Mount Lebanon, assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa. Coffee percolator. Des. 91,265; Jan. 2.
Church, C. F., Mfg. Co. (See Guild, Lurelle, assignor.)
Clapp, Kenneth S., Cleveland, Ohio. Automobile jack. 1,942,276; Jan. 2.
Clark, Albert R., assignor to The De Vilbiss Company, Toledo, Ohio. Indirect exhaust system. 1,942,048; Jan. 2.
Clark, Leverett M., assignor to Waugh Equipment Company, Depew, N. Y. Draft gear. 1,941,787; Jan. 2
Clark, William A. (See Dorn, N. L., and Clark.)
Cleveland, Grover E., assignor to The Yoder Company, Cleveland, Ohio. Machine for turning and grinding. 1,941,598; Jan. 2.
Clifford, Roger W., Schenectady, N. Y. Driving mechanism. 1,941,464; Jan. 2.
Cline, Edwin L., Philadelphia, Pa., assignor to The Barrett Company, New York, N. Y. Production of resins. 1,942,201; Jan. 2.
Cline, Foster. (See Miller, Oscar, assignor.)
Cohen, Jacob. (See Connell, A. J., and Cohen.)
Cohen, Samuel I. (See Marinsky, Isaac, assignor.)
Cohn, Ralph F., Dixon, Ill. Rotator. 1,942,202; Jan. 2.
Colavito, Michael, and J. S. Merenna, Brooklyn, N. Y. Shoe. 1,941,853; Jan. 2.
Coleman, Stanton B., Rutledge, Pa. Insect trap. 1,941,659; Jan. 2.
Collet, Pierre, and René Loiseau; said Collet assignor to Les Fils D'Albert Collet, Paris, France. Replacing railroad rails. 1,941,930; Jan. 2.
Collings, Thomas G. (See Long, J. W., and Collings.)
Collings, William R., and D. L. Gibb, assignors to The Dow Chemical Company, Midland, Mich. Article of manufacture. 1,942,354; Jan. 2.
Collins, Carteret F., Tunbridge Wells, England. Dish and like washing machine. 1,941,660; Jan. 2.
Collins, Henry E., Dunmore, Pa. Cork covered spindle. 1,941,738; Jan. 2.
Colonial Radio Corporation. (See Streng, Jan, assignor.)
Columbia Phonograph Company. (See Massey, Augustine H., assignor.)
Commerce Guardian Bank, The, trustee. (See Hallerberg, Theodore W., assignor.)
Compagnie Générale de Telegraphie sans Fil. (See Bellini, Ettore, assignor.)
Condit Electrical Manufacturing Corporation. (See Burnham, George A., assignor.)
Connell, Andrew J., and J. Cohen, assignors to Superior Steel Door and Trim Co., Inc., College Point, N. Y. Combined metallic base and conduit. 1,942,137; Jan. 2.
Conover, Courtney, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Making benzoic acid. 1,942,389; Jan. 2.
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Continental-Diveo Company. (See Maurer, E. R., and Ferguson, assignors.)
Continental Motors Corporation. (See Evelyn, Steven F., assignor.)
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Cooper, George A. S., administrator. (See Cox, John W.)
Cooper, Samuel, Columbiana, Ohio. Steel doorlock. 1,942,087; Jan. 2.
Cordrey, Hancil, Chula Vista, Calif. Safety razor and stropping attachment. 1,942,049; Jan. 2.
Cornell, Edward S., jr., Larchmont, N. Y. Built-up pipe fitting. 1,941,465; Jan. 2.
Cornwell, Turley J., and J. R. Strahlendorf, Indianapolis, Ind. Furnace radiator. 1,942,203; Jan. 2.
Costello, Thomas C., Beverly Hills, assignor to Western Bakeries Corporation, Ltd., Los Angeles, Calif. Container for iced cake. 1,941,538; Jan. 2.
Costello, Thomas J., Warren, Ohio. Conveyer type of pair or pack furnace. 1,941,599; Jan. 2.
Coty, Thomas E., Watertown, N. Y. Multiwall bag. 1,942,019; Jan. 2.
Courchene, Anatolle B., Chicago, assignor of one-half to H. B. Courchene, Downers Grove, Ill. Self-cleaning dust mop. 1,942,204; Jan. 2.
Courchene, Homer B. (See Courchene, Anatolle B., assignor.)
Court, Frank T., W. Christensen, and C. E. Johnson, assignors to Deere & Company, Moline, Ill. Rod weeder. 1,941,539; Jan. 2.
Cox, John W., deceased, by G. A. S. Cooper, Newark, N. J., administrator, assignor to The Nestle-Lemur Company, New York, N. Y. Heater for permanently waving hair. 1,941,600; Jan. 2.
Cragwall, Gordon O. (See Pasternack, R., and Cragwall.)
Crawford, Frank, Lihue, Hawaii. Fishing reel. 1,941,739; Jan. 2.
Crawford, Samuel W., assignor to National Bearing Metals Corporation, St. Louis, Mo. Bearing. 1,941,788; Jan. 2.
Crawford, Samuel W., assignor to National Bearing Metals Corporation, St. Louis, Mo. Bearing. 1,941,789; Jan. 2.
Cretors, Charles, Chicago, Ill. Corn popping apparatus. 1,941,973; Jan. 2.
Cronin, Annie, et al., trustees. (See Milone, Samuel, assignor.)
Crowley, Henry L., assignor to Henry L. Crowley & Co. Inc., East Orange, N. J. Electron discharge device. 1,941,661; Jan. 2.
Crowley, Henry L., & Co. Inc. (See Crowley, Henry L., assignor.)
Crowley, Jerome J. (See Amos, Clifford J., assignor.)
Crown Cork & Seal Company. (See Elder, John D., assignor.)
Cunningham, Wayne, Savannah, Ga. Portable collapsible building. 1,941,662; Jan. 2.
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Curtiss Aeroplane & Motor Company. (See Miller, Roy G., assignor.)
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Davidson, James A., Memphis, Mo. Electric circuit closing attachment for shoe heels. 1,942,325; Jan. 2.
Davies, Caleb, jr., Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Gas purification. 1,942,050; Jan. 2.
Davies, Lloyd L., J. V. Resek, and W. W. Carson, jr., assignors to The Fulton Syphon Company, Knoxville, Tenn. Fluid mixing device. 1,942,269; Jan. 2.
Davis, Emery E., St. Louis, Mo. Reamer. 1,941,790; Jan. 2.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Lay for bobbin changing looms. 1,941,931; Jan. 2.
Davis, Norris K., Reno, Nev., and A. E. Mason, San Francisco, Calif.; said Mason assignor to said Davis. Portable agitator. 1,942,277; Jan. 2.
Davis, Walter F., Farmingdale, N. Y. Engine oiling system. 1,941,974; Jan. 2.
Dayton Accessories Manufacturing Company, The. (See Smelker, Le Roy, assignor.)
Dean, Reginald S., et al. (See Maier, Charles G., assignor.)
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Deere & Company. (See Baker, Mervin R., assignor.)
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De Forest Radio Company. (See Hunter, Frederick L., jr., assignor.)
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Dekany, Louis, Chicago, Ill. Time controlled switch. 1,941,828; Jan. 2.
Denison, Frederick S., and D. G. Taylor, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostatic switch. 1,941,540; Jan. 2.
Derrley, Lizzie, Paris, France, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,293; Jan. 2.
Derrley, Lizzie, Paris, France, assignor to J. Oltarsh, New York N. Y. Textile fabric or similar article. Des. 91,294; Jan. 2.
Detroit Show Case Company. (See McDonald, Angus N., assignor.)
Deutsch, Emerich, Vienna, Austria. Lock. 1,941,932; Jan. 2.
Deutsch Gold- und Silber-Scheide- Anstalt Vormals Roessler. (See Scheller, Emil, assignor).
De Vilbiss Company, The. (See Clark, Albert R., assignor.)
De Voe, William E., Detroit, Mich., assignor to Riley Stoker Corporation, Worcester, Mass. Stoker ash dumping mechanism. 1,941,791; Jan. 2.
De Walt, Raymond E., Leola, Pa. Massage apparatus. 1,941,665; Jan. 2.
Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Stove drawer. 1,941,541; Jan. 2.
Dicke, Oscar H., and N. D. Preston, Rochester, assignors to General Railway Signal Company, Gates, N. Y. Train control. 1,942,138; Jan. 2.

Dickhaut, Charles A., and C. C. Willis, New Brunswick, N. J. Coating paper and the like. 1,942,383; Jan. 2.
Dickie, William A., and F. C. Hale, Spondon, near Derby, England, assignors to Celanese Corporation of America. Machine for preparing or spinning yarns or threads. 1,941,666; Jan. 2.
Dictograph Products Co. (See Koch, Henry, assignor.)
Dietrich, Jakob, assignor to the firm E. Krebs & Co., Dietlikon, Switzerland. Adjustable strut for stagings. 1,942,068; Jan. 2.
Dietz, Ewald. (See Gustin, D. S., and Dietz.)
Dinley, Clarence F., assignor to Rex Products & Manufacturing Company, Detroit, Mich. Apparatus for treatment with solvents. 1,942,355; Jan. 2.
Di Zoppola, Mario, assignor to Mario di Zoppola & Company Inc., New York, N. Y. Bulkhead and sea-wall structure. 1,942,168; Jan. 2.
Di Zoppola, Mario, & Company Inc. (See Di Zoppola, Mario, assignor.)
Dodge, Harry H., Troy, assignor, by mesne assignments, to Hoguet & Neary, New York, N. Y. Sectional manifold. 1,941,466; Jan. 2.
Doehler Die-Casting Co. (See Morin, Louis H., assignor.)
Doerner, Henry A., et al. (See Maier, Charles G., assignor.)
Dolge, Arthur H., Westport, Conn. Bottle. Des. 91,295; Jan. 2.
Dominion Truck Equipment Co. Limited. (See Gurton, W. S., Flint, and Nyberg, assignors.)
Dorman, Neal W., and J. G. Eisenbach, assignors to The Toledo Machine & Tool Company, Toledo, Ohio. Conveyer. 1,941,829; Jan. 2.
Dorn, Norman L., and W. A. Clark, Long Beach, Calif. Oil well pump. 1,942,020; Jan. 2.
Dorneth, Julius, Konradshohe, near Berlin-Tegel, assignor to Typograph G. m. b. H., Berlin, Germany. Matrix-setting and type-line-casting machine. 1,942,326; Dec. 2.
Dorr Company, The. (See Bull, A. W., and Ramsey, assignors.)
Doughnut Machine Corporation. (See Blinn, H. M., and Hunter, assignors.)
Doughty, Hartwell T., St. Paul, Minn. Auxiliary distributing valve for locomotives. 1,942,369; Jan. 2.
Douglas, William, Port Angeles, Wash. Bottle. 1,941,933; Jan. 2.
Dow Chemical Company, The. (See Britton, Edgar C., assignor.)
Dow Chemical Company, The. (See Collings, W. R., and Gibb, assignors.)
Dow Chemical Company, The. (See Lowry, R. D., and Reynolds, assignors.)
Dow Chemical Company, The. (See Stoesser, W. C., and Marschner, assignors.)
Dow, Dewey M. (See Riebel, F., and Dow.)
Dow, Orville E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Tuning arrangement. 1,941,542; Jan. 2.
Doyle, John T. (See Eggleston, Robert N., assignor.)
Drake, Frederick H., Boonton Township, Morris County, assignor to Aircraft Radio Corporation, Boonton, N. J. Radioreceiver. 1,942,327; Jan. 2.
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Gatlin, Luther E., assignor.)
Draper Corporation. (See Meehan, John C., assignor.)
Draper Corporation. (See Thatcher, Harry W., assignor.)
Duall Laboratories. (See Milone, Samuel, assignor.)
Du Bon, Irwin J., Garden City, N. Y. Tie. 1,942,089; Jan. 2.
Dubonnet, André, Neuilly-sur-Seine, France. Suspension. 1,941,879; Jan. 2.
Dubrovin, John, assignor to Central Scientific Company, Chicago, Ill. Molecular vacuum pump. 1,942,139; Jan. 2.
Du Chaffaut, Roger, Varennes-sur-Seine, France, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for carrying out exothermic chemical reactions. 1,942,021; Jan. 2.
Duhme, Emil, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company. Liquid level controlling means. 1,942,241; Jan. 2.
Dunn, John W., Los Angeles, Calif. Venetian blind operating mechanism. 1,941,830; Jan. 2.
Du Pont, E. I., de Nemours & Company. (See Du Chaffaut, Roger, assignor.)
Du Pont, E. I., de Nemours & Company. (See Lubs, H. A., and Walker, assignors.)
Dwork, Max, Brooklyn, N. Y. Automobile jack. 1,941,854; Jan. 2.
Dyckes, George J., assignor to American Steril'zer Company, Erie, Pa. Sterilizer. 1,942,051; Jan. 2.
Earll, Charles I., York, Pa. Reel. 1,941,880; Jan. 2.
Earll, Charles I., York, Pa. Reel. 1,941,881; Jan. 2.
Eastern Tool & Mfg. Co. (See Warren, Admiral J., assignor.)
Eastman Kodak Company. (See Frenzel, Kurt, assignor.)
Eastman Kodak Company. (See Wellman, Howard C., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eclipse Aviation Corporation. (See Lansing, Raymond P., assignor.)
Eclipse Aviation Corporation. (See Roth, Harris C., assignor.)
Edgewater Steel Company. (See Wikander, Oscar R., assignor.)
Edwards, Paul S., Fort Meade, Md., and C. D. Barbulesco, Dayton, Ohio. Apparatus for producing theatrical effects. 1,941,740; Jan. 2.
Egenolf, George J., assignor to The J. L. MacDaniel Printing Company, Indianapolis, Ind. Folding and wrapping machine. 1,941,544; Jan. 2.
Eggleston, Blanche G., administratrix. (See Eggleston, Robert N.)
Eggleston, Robert N., deceased, Riverdale, Md., assignor of one-half to John T. Doyle, Washington, D. C.; Blanche G. Eggleston, administratrix. Thermoelectric radiator. 1,941,855; Jan. 2.
Ehrke, Louis F., Newark, N. J., assignor to Westinghouse Lamp Company. X-ray tube. 1,941,975; Jan. 2.
Eichenberg, Georg, and N. Wark, Crefeld-Rheinhafen, Germany. Reducing the dust losses from shaft furnaces. 1,941,545; Jan. 2.
Eichengrün, Arthur, Charlottenburg, Germany, assignor to Celanese Corporation of America. Molding cellulose derivatives. 1,942,090; Jan. 2.
Eisenbach, John G. (See Dorman, N. W., and Eisenbach.)
Eksergian, Carolus L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Manufacture of wire wheels. 1,942,091; Jan. 2.
Elder, Charles J., Brooklyn, N. Y. Wire spring fabric. 1,941,882; Jan. 2.
Elder, John D., Catonsville, Md., assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Cork sifter. 1,941,883; Jan. 2.
Eldridge, Charles H. (See Fink, C. G., and Eldridge.)
Electro Formation, Inc. (See Tyzzer, Howard J., assignor.)
Electromatic Typewriter, Inc. (See Petz, John L., assignor.)
Eley, Alonzo, Hendon, and E. J. Hodgkinson, Willesden Green, England, assignors to Addressograph Company, Wilmington, Del. Printing machine. 1,941,667; Jan. 2.
Elliott, Harold E. (See Keall, F. B., and Elliott.)
Ellis, Elmer A., Medford, Mass. Gemming insoles. 1,941,934; Jan. 2.
Ellis, William H. (See Bahr, Charles A., assignor.)
Ellman, Walter, and F. Berkley, Astoria, Long Island, N. Y. Electric control system and recording device. 1,941,668; Jan. 2.
Elnett, Anthony A., New York, N. Y. Blackboard eraser. 1,942,205; Jan. 2.
Elwell Parker Electric Company, The. (See Towson, Morris S., assignor.)
Enamel Products Company, The. (See Mochi, Ugo, assignor.)
Engel, Hans, Mannheim, and J. Jannek, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Conversion of hydrocarbons into those of lower boiling point. 1,941,884; Jan. 2.
Engels, Wilhelm. (See Kollek, L., and Engels.)
Engineering Research Corporation. (See Freeman, Carl L., assignor.
Equipment Specialties Company. (See O'Connor, Arthur F., assignor.)
Erickson, Christian F., Grand Forks, N. Dak. Traction device. 1,941,935; Jan. 2.
Erickson, John H., et al. (See Taggart, Archie D., assignor.)
Erskine, Clyde, Michigan City, Ind., assignor to International Motor Company, New York, N. Y. Semitrailer. 1,941,669; Jan. 2.
Estaugh, William, Wanstead, England. Means of and apparatus for transmitting messages through submarine and other like cables. 1,942,278; Jan. 2.
Etherington, Harold, assignor to A. O. Smith Corporation, Milwaukee, Wis. Regenerator construction. 1,941,976; Jan. 2.
Evans, Herbert G., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Grinding device. 1,941,977; Jan. 2.
Evans Stamping and Plating Company. (See Ware, W. C., and Robertson, assignors.)
Evelyn, Steven F., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 1,942,206; Jan. 2.
Everedy Company, The. (See Lebherz, Harry J., assignor.)
Everett, Charles E., assignor to The Massey-Harris Company, Racine, Wis. Harvester hitch. 1,941,670; Jan. 2.
Excel Magneto Co. (See Reis, Curt F., assignor.)
Fahrenwald, Frank A., Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Ductile cast iron and making the same. 1,941,671; Jan. 2.
Fahrenwald, Frank A., Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Brake shoe and making the same. 1,941,672; Jan. 2.
Fairchild Aerial Camera Corporation. (See Black, William A., assignor.)
Faries, Robert, St. Davids, Pa. Railway shipping container. 1,942,022; Jan. 2.
Farval Corporation, The. (See Whittington, Ralph S., assignor.)
Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Attemperator for rotary kilns and the like. 1,942,140; Jan. 2.
Faulds, John, Oak Park, Ill. Brake oven. 1,941,792; Jan. 2.

Central Waxed Paper Co. (See Hawley, John F., assignor.)
Chain Belt Company. (See Benesh, Alvin H., assignor.)
Chambers, William E., West Chester, Pa. Apparatus for grading mushrooms. 1,942,238; Jan. 2.
Chapman, William B. (See Andrews, C. W., and Chapman.)
Chauvet, Gabriel, Paris, France. Metal window frame. 1,942,239; Jan. 2.
Cheatham, Robert J., Chevy Chase, Md., assignor to A. M. Hyde, as Secretary of Agriculture of the United States of America. Fabric bag for fruits and vegetables. 1,942,086; Jan. 2.
Cheesman-Elliott Co. Inc. (See Ward, Gilbert J., assignor.)
Chernow, Michael, Brooklyn, N. Y. Monogram. 1,942,240; Jan. 2.
Chicago Pump Company. (See Thom, George L., assignor.)
Chicago, University of. (See Koch, F. C., McGee, and Gallagher, assignors.)
Christensen, William. (See Court, F. T., Christensen, and Johnson.)
Christman, William T., Mount Lebanon, assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa. Coffee percolator. Des. 91,265; Jan. 2.
Church, C. F., Mfg. Co. (See Guild, Lurelle, assignor.)
Clapp, Kenneth S., Cleveland, Ohio. Automobile jack. 1,942,276; Jan. 2.
Clark, Albert R., assignor to The De Vilbiss Company, Toledo, Ohio. Indirect exhaust system. 1,942,048; Jan. 2.
Clark, Leverett M., assignor to Waugh Equipment Company, Depew, N. Y. Draft gear. 1,941,787; Jan. 2
Clark, William A. (See Dorn, N. L., and Clark.)
Cleveland, Grover E., assignor to The Yoder Company, Cleveland, Ohio. Machine for turning and grinding. 1,941,598; Jan. 2.
Clifford, Roger W., Schenectady, N. Y. Driving mechanism. 1,941,464; Jan. 2.
Cline, Edwin L., Philadelphia, Pa., assignor to The Barrett Company, New York, N. Y. Production of resins. 1,942,201; Jan. 2.
Cline, Foster. (See Miller, Oscar, assignor.)
Cohen, Jacob. (See Connell, A. J., and Cohen.)
Cohen, Samuel I. (See Marinsky, Isaac, assignor.)
Cohn, Ralph F., Dixon, Ill. Rotator. 1,942,202; Jan. 2.
Colavito, Michael, and J. S. Merenna, Brooklyn, N. Y. Shoe. 1,941,853; Jan. 2.
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Dekany, Louis, Chicago, Ill. Time controlled switch. 1,941,828; Jan. 2.
Denison, Frederick S., and D. G. Taylor, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostatic switch. 1,941,540; Jan. 2.
Derriey, Lizzie, Paris, France, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,293; Jan. 2.
Derriey, Lizzie, Paris, France, assignor to J. Oltarsh, New York N. Y. Textile fabric or similar article. Des. 91,294; Jan. 2.
Detroit Show Case Company. (See McDonald, Angus N., assignor.)
Deutsch, Emerich, Vienna, Austria. Lock. 1,941,932; Jan. 2.
Deutsch Gold- und Silber-Scheide- Anstalt Vormals Roessler. (See Scheller, Emil, assignor).
De Vilbiss Company, The. (See Clark, Albert R., assignor.)
De Voe, William E., Detroit, Mich., assignor to Riley Stoker Corporation, Worcester, Mass. Stoker ash dumping mechanism. 1,941,791; Jan. 2.
De Walt, Raymond E., Leola, Pa. Massage apparatus. 1,941,665; Jan. 2.
Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Stove drawer. 1,941,541; Jan. 2.
Dicke, Oscar H., and N. D. Preston, Rochester, assignors to General Railway Signal Company, Gates, N. Y. Train control. 1,942,188; Jan. 2.

Dickhaut, Charles A., and C. C. Willis, New Brunswick, N. J. Coating paper and the like. 1,942,383; Jan. 2.
Dickie, William A., and F. C. Hale, Spondon, near Derby, England, assignors to Celanese Corporation of America. Machine for preparing or spinning yarns or threads. 1,941,666; Jan. 2.
Dictograph Products Co. (See Koch, Henry, assignor.)
Dietrich, Jakob, assignor to the firm E. Krebs & Co., Dietikon, Switzerland. Adjustable strut for stagings. 1,942,088; Jan. 2.
Dietz, Ewald. (See Gustin, D. S., and Dietz.)
Dinley, Clarence F., assignor to Rex Products & Manufacturing Company, Detroit, Mich. Apparatus for treatment with solvents. 1,942,355; Jan. 2.
Di Zoppola, Mario, assignor to Mario di Zoppola & Company Inc., New York, N. Y. Bulkhead and sea-wall structure. 1,942,168; Jan. 2.
Di Zoppola, Mario, & Company Inc. (See Di Zoppola, Mario, assignor.)
Dodge, Harry H., Troy, assignor, by mesne assignments, to Hoguet & Neary, New York, N. Y. Sectional manifold. 1,941,466; Jan. 2.
Doehler Die-Casting Co. (See Morin, Louis H., assignor.)
Doerner, Henry A., et al. (See Maier, Charles G., assignor.)
Dolge, Arthur H., Westport, Conn. Bottle. Des. 91,295; Jan. 2.
Dominion Truck Equipment Co. Limited. (See Gurton, W. S., Flint, and Nyberg, assignors.)
Dorman, Neal W., and J. G. Eisenbach, assignors to The Toledo Machine & Tool Company, Toledo, Ohio. Conveyer. 1,941,529; Jan. 2.
Dorn, Norman L., and W. A. Clark, Long Beach, Calif. Oil well pump. 1,942,020; Jan. 2.
Dorneth, Julius. Konradshohe, near Berlin-Tegel, assignor to Typograph G. m. b. H., Berlin, Germany. Matrix-setting and type-line-casting machine. 1,942,326; Dec. 2.
Dorr Company, The. (See Bull, A. W., and Ramsey, assignors.)
Doughnut Machine Corporation. (See Blinn, H. M., and Hunter, assignors.)
Doughty, Hartwell T., St. Paul, Minn. Auxiliary distributing valve for locomotives. 1,942,369; Jan. 2.
Douglas, William, Port Angeles, Wash. Bottle. 1,941,933; Jan. 2.
Dow Chemical Company, The. (See Britton, Edgar C., assignor.)
Dow Chemical Company, The. (See Collings, W. R., and Gibb, assignors.)
Dow Chemical Company, The. (See Lowry, R. D., and Reynolds, assignors.)
Dow Chemical Company, The. (See Stoesser, W. C., and Marschner, assignors.)
Dow, Dewey M. (See Riebel, F., and Dow.)
Dow, Orville E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Tuning arrangement. 1,941,542; Jan. 2.
Doyle, John T. (See Eggleston, Robert N., assignor.)
Drake, Frederick H., Boonton Township, Morris County, assignor to Aircraft Radio Corporation, Boonton, N. J. Radioreceiver. 1,942,327; Jan. 2.
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Gatlin, Luther E., assignor.)
Draper Corporation. (See Meehan, John C., assignor.)
Draper Corporation. (See Thatcher, Harry W., assignor.)
Duall Laboratories. (See Milone, Samuel, assignor.)
Du Bon, Irwin J., Garden City, N. Y. Tie. 1,942,089; Jan. 2.
Dubonnet, André, Neuilly-sur-Seine, France. Suspension. 1,941,879; Jan. 2.
Dubrovin, John, assignor to Central Scientific Company, Chicago, Ill. Molecular vacuum pump. 1,942,139; Jan. 2.
Du Chaffaut, Roger, Varennes-sur-Seine, France, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for carrying out exothermic chemical reactions. 1,942,021; Jan. 2.
Duhme, Emil, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company. Liquid level controlling means. 1,942,241; Jan. 2.
Dunn, John W., Los Angeles, Calif. Venetian blind operating mechanism. 1,941,830; Jan. 2.
Du Pont, E. I., de Nemours & Company. (See Du Chaffaut, Roger, assignor.)
Du Pont, E. I., de Nemours & Company. (See Lubs, H. A., and Walker, assignors.)
Dwork, Max, Brooklyn, N. Y. Automobile jack. 1,941,854; Jan. 2.
Dyckes, George J., assignor to American Steril'zer Company, Erie, Pa. Sterilizer. 1,942,051; Jan. 2.
Earll, Charles I., York, Pa. Reel. 1,941,880; Jan. 2.
Earll, Charles I., York, Pa. Reel. 1,941,881; Jan. 2.
Eastern Tool & Mfg. Co. (See Warren, Admiral J., assignor.)
Eastman Kodak Company. (See Frenzel, Kurt, assignor.)
Eastman Kodak Company. (See Wellman, Howard C., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eclipse Aviation Corporation. (See Lansing, Raymond P., assignor.)
Eclipse Aviation Corporation. (See Roth, Harris C., assignor.)
Edgewater Steel Company. (See Wikander, Oscar R., assignor.)
Edwards, Paul S., Fort Meade, Md., and C. D. Barbulesco, Dayton, Ohio. Apparatus for producing theatrical effects. 1,941,740; Jan. 2.
Egenolf, George J., assignor to The J. L. MacDaniel Printing Company, Indianapolis, Ind. Folding and wrapping machine. 1,941,544; Jan. 2.
Eggleston, Blanche G., administratrix. (See Eggleston, Robert N.)
Eggleston, Robert N., deceased, Riverdale, Md., assignor of one-half to John T. Doyle, Washington, D. C.; Blanche G. Eggleston, administratrix. Thermoelectric radiator. 1,941,855; Jan. 2.
Ehrke, Louis F., Newark, N. J., assignor to Westinghouse Lamp Company. X-ray tube. 1,941,975; Jan. 2.
Eichenberg, Georg, and N. Wark, Crefeld-Rheinhafen, Germany. Reducing the dust losses from shaft furnaces. 1,941,545; Jan. 2.
Eichengrün, Arthur, Charlottenburg, Germany, assignor to Celanese Corporation of America. Molding cellulose derivatives. 1,942,090; Jan. 2.
Eisenbach, John G. (See Dorman, N. W., and Eisenbach.)
Eksergian, Carolus L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Manufacture of wire wheels. 1,942,091; Jan. 2.
Elder, Charles J., Brooklyn, N. Y. Wire spring fabric. 1,941,882; Jan. 2.
Elder, John D., Catonsville, Md., assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Cork sifter. 1,941,883; Jan. 2.
Eldridge, Charles H. (See Fink, C. G., and Eldridge.)
Electro Formation, Inc. (See Tyzzer, Howard J., assignor.)
Electromatic Typewriter, Inc. (See Petz, John L., assignor.)
Eley, Alonzo, Hendon, and E. J. Hodgkinson, Willesden Green, England, assignors to Addressograph Company, Wilmington, Del. Printing machine. 1,941,667; Jan. 2.
Elliott, Harold E. (See Keall, F. B., and Elliott.)
Ellis, Elmer A., Medford, Mass. Gemming insoles. 1,941,934; Jan. 2.
Ellis, William H. (See Bahr, Charles A., assignor.)
Ellman, Walter, and F. Berhley, Astoria, Long Island, N. Y. Electric control system and recording device. 1,941,668; Jan. 2.
Elnett, Anthony A., New York, N. Y. Blackboard eraser. 1,942,205; Jan. 2.
Elwell-Parker Electric Company, The. (See Towson, Morris S., assignor.)
Enamel Products Company, The. (See Mochl, Ugo, assignor.)
Engel, Hans, Mannheim, and J. Jannek, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Conversion of hydrocarbons into those of lower boiling point. 1,941,884; Jan. 2.
Engels, Wilhelm. (See Kollek, L., and Engels.)
Engineering Research Corporation. (See Freeman, Carl L., assignor.
Equipment Specialties Company. (See O'Connor, Arthur F., assignor.)
Erickson, Christian F., Grand Forks, N. Dak. Traction device. 1,941,935; Jan. 2.
Erickson, John H., et al. (See Taggart, Archie D., assignor.)
Erskine, Clyde, Michigan City, Ind., assignor to International Motor Company, New York, N. Y. Semitrailer. 1,941,669; Jan. 2.
Estaugh, William, Wanstead, England. Means of and apparatus for transmitting messages through submarine and other like cables. 1,942,278; Jan. 2.
Etherington, Harold, assignor to A. O. Smith Corporation, Milwaukee, Wis. Regenerator construction. 1,941,976; Jan. 2.
Evans, Herbert G., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Grinding device. 1,941,977; Jan. 2.
Evans Stamping and Plating Company. (See Ware, W. C., and Robertson, assignors.)
Evelyn, Steven F., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 1,942,206; Jan. 2.
Everedy Company, The. (See Lebherz, Harry J., assignor.)
Everett, Charles E., assignor to The Massey-Harris Company, Racine, Wis. Harvester hitch. 1,941,670; Jan. 2.
Excel Magneto Co. (See Reis, Curt F., assignor.)
Fahrenwald, Frank A., Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Ductile cast iron and making the same. 1,941,671; Jan. 2.
Fahrenwald, Frank A., Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Brake shoe and making the same. 1,941,672; Jan. 2.
Fairchild Aerial Camera Corporation. (See Black, William A., assignor.)
Faries, Robert, St. Davids, Pa. Railway shipping container. 1,942,022; Jan. 2.
Farval Corporation, The. (See Whittington, Ralph S., assignor.)
Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Attemperator for rotary kilns and the like. 1,942,140; Jan. 2.
Faulds, John, Oak Park, Ill. Brake oven. 1,941,792; Jan. 2.

Fausek, Arthur J., and I. F. Fausek, St. Louis, Mo. Torch. 1,941,467; Jan. 2.
Fausek, Irwing F. (See Fausek, Arthur J., and I. F.)
Faut, Jules A. M., assignor to Les Fibres Textiles, Schaerbeek-Brussels, Belgium. Retting process of textile materials. 1,941,793; Jan. 2.
Faverty, Clyde B., assignor to Ryan Car Company, Chicago, Ill. Steam condenser controls for moving vehicles. 1,941,885; Jan. 2.
Fayer, Charles, Flushing, N. Y., assignor to Wappler Electric Company, Inc. Shockproof X-ray unit. 1,941,978; Jan. 2.
Feddern, Carl O., assignor to Globe Ticket Company, Philadelphia, Pa. Ticket holder. 1,941,979; Jan. 2.
Fedders Manufacturing Company. (See Askin, Joseph, assignor.)
Federal Enameling & Stamping Company. (See Christman, William T., assignor.)
Felten-Guilleaume Carlswerk Actien-Gesellschaft. (See Zapf, Georg, assignor.)
Ferguson, Donald M. (See Maurer, E. R., and Ferguson.)
Ferguson, William A. (See Weller, F., and Ferguson.)
Ferris, Seymour W., Lansdowne, assignor to The Atlantic Refining Company, Philadelphia, Pa. Separation of oil and wax. 1,941,601; Jan. 2.
Ferro-Co Corporation. (See Lloyd, William, assignor.)
Ferwerda, Ray, Maple Heights, Ohio. Truck body and heating same. 1,942,207; Jan. 2.
Fiberfraks Inc. (See Holcomb, Harry E., assignor.)
Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Railway track circuits and relay therefor. 1,942,141; Jan. 2.
Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Relay. 1,942,142; Jan. 2.
Fillo, Francis, St. Louis, Mo., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Step-control system. 1,941,546; Jan. 2.
Fink, Colin G., New York, N. Y., and C. H. Eldridge, Detroit, Mich., assignors, by mesne assignments, to United Chromium, Incorporated, New York, N. Y. Electrodeposition of chromium. 1,942,356; Jan. 2.
Fink, Emil C., assignor to International Motor Company, New York, N. Y. Steering and stabilizing construction for individually sprung wheels. 1,941,673; Jan. 2.
Finocchiaro, Mariano, Bellevue, Del. Airplane. 1,942,279; Jan. 2.
Fischer, Charles, jr., Wyoming, and W. T. Reddish, Cincinnati, Ohio, assignors to The Kontol Company, Dallas, Tex. Emulsion decomposing body. 1,941,886; Jan. 2.
Fisher, Ernest H., Cleveland, Ohio. Jar sealer. 1,941,674; Jan. 2.
Fitzgerald Manufacturing Company, The. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Spark plug. 1,942,242; Jan. 2.
Flannery Bolt Company. (See Gjertsen, Gustav H., assignor.)
Fleischer, Max, Brooklyn, N. Y. Making of sound synchronized motion pictures. 1,941,980; Jan. 2.
Fleischhammer, Erich, Mannheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Motor vehicle control system. 1,941,887; Jan. 2.
Fleming, John S., assignor to Niagara Fold, Inc., Niagara Falls, N. Y. Manifolding device. 1,941,888; Jan. 2.
Floral City Furniture Company. (See Knabusch, E. M., and Shoemaker, assignors.)
Fohmann, Edwin C., Philadelphia, Pa. Game. 1,942,280; Jan. 2.
Fontaine, Pierre M., St.-André-lez-Lille, France. Scale. 1,941,981; Jan. 2.
Ford, Albert G., Aurora, Ill. Gas service regulator. 1,941,831; Jan. 2.
Foretich, Clarence L., Warren, Ark. Display stand. 1,941,675; Jan. 2.
Fort Pitt Mine Equipment Company. (See Johnson, George M., assignor.)
Foss, Guy M., et al. (See Frost, Walter E., assignor.)
Foust, Clifford M., and H. P. Kuehni, Schenectady, N. Y., assignors to General Electric Company. Method of and instrument for measuring surge currents. 1,942,052; Jan. 2.
Foust, Clifford M., Schenectady, N. Y., assignor to General Electric Company. Method of and instrument for measuring surge currents. 1,942,384; Jan. 2.
Fowler, George W., Carbondale, Pa., assignor to Hendrick Manufacturing Company. Grille or the like. Des. 91,266; Jan. 2.
Fraim, Samuel R., Lancaster, Pa. Padlock. 1,942,328; Jan. 2.
Fraley, Louis, assignor of one-tenth to R. A. Pulliam, Cooper, Okla. Hose connection. 1,941,856; Jan. 2.
Franchi, Aldo M. (See Albert, Joseph A., assignor.)
Frappier, Louis S., and E. Boecking, Brooklyn, assignors to International Projector Corporation, New York, N. Y. Film gate for motion-picture-projection machines. 1,941,676; Jan. 2.
Fraser, James, and D. Campbell, Glasgow, Scotland. Hydraulic power transmitter. 1,942,281; Jan. 2.
Freeman, Carl L., Canton, Ohio, assignor of one-half to Engineering Research Corporation. Artificial leg. 1,942,053; Jan. 2.
Freeman, William A., Los Angeles, Calif. Pipe clamping device. 1,941,889; Jan. 2.
French, Herbert J., Elizabeth, N. J., and J. W. Sards, Staten Island, assignors to The International Nickel Company, Inc., New York, N. Y. Free scaling and free machining steel. 1,941,547; Jan. 2.
Frenzel, Kurt, Berlin, Germany, assignor, by mesne assignments, to Eastman Kodak Company. Photographic camera. 1,941,602; Jan. 2.
Frey, Elmer E., assignor to Kittle Manufacturing Co., Los Angeles, Calif. Interrupter. 1,942,023; Jan. 2.
Frey, Elmer E., assignor to Kittle Manufacturing Co., Los Angeles, Calif. Electrical interrupter. 1,942,024; Jan. 2.
Frickey, Edward H., Pasadena Park, Mo. Crusher. 1,942,143; Jan. 2.
Friedheim, Frank, Minneapolis, Minn. Lawn edge trimmer. 1,941,548; Jan. 2.
Friedman, Eli, Boston, Mass. Diaper. 1,941,677; Jan. 2.
Fritz, Hanns, Wurzburg, assignor to firm Schnellpressenfabrik Koening & Bauer, Aktiengesellschaft, Wurzburg, Germany. Plate depositing table for casting machines. 1,942,243; Jan. 2.
Fröhlich, Hans, T. Hausch, and W. Zingg, assignors to Landis Gyr, A.-G., Zug, Switzerland. Induction meter. 1,942,164; Jan. 2.
Frost, Thomas H., Cambridge, Mass. Blade strip and making the same. 1,942,025; Jan. 2.
Frost, Walter E., assignor of one-half to G. M. Foss and one-fourth to H. B. Libby, Auburn, Maine. Smoke eliminator and fuel economizer. 1,941,936; Jan. 2.
Fuller Company. (See Morrow, Joseph H., assignor.)
Fuller, Kenneth D., deceased, Huntington Beach, Calif.; R. E. Hickerson, administrator, assignor to R. E. Hickerson. Rod handling apparatus. 1,942,144; Jan. 2.
Fuller Lehigh Company. (See Hardgrove, Ralph M., assignor.)
Fuller's Limited. (See Kenny, Alexander, assignor.)
Fulton Sylphon Company, The. (See Davies, L. L., Resek, and Carson, jr., assignors.)
Fulton Sylphon Company, The. (See Resek, Jules V., assignor.)
Gaffers, Herman B., Watervliet, N. Y. Ladder brace. 1,941,890; Jan. 2.
Gagnier, George E. (See Place, Bion C., assignor.)
Gail, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Tufted mattress and making the same. 1,941,794; Jan. 2.
Gallagher, Thomas F. (See Koch, F. C., McGee, and Gallagher.)
Gallimore, Keith F., assignor to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis. Remote control for movable members of machine tools. 1,942,092; Jan. 2.
Gamard, Henri, Bourges, France. Electric gasifier. 1,941,678; Jan. 2.
Gamichon, Paul, Paris, France. Obtaining lead in metallic condition. 1,942,208; Jan. 2.
Gannon, Paul C., Pittsburgh, Pa. Valve for toilet tanks. 1,941,549; Jan. 2.
Garcia, Alfonso, Mexico, Mexico. Antiskid device for car wheels. 1,941,857; Jan. 2.
Gardiner Metal Co. (See Sternad, Andrew F., assignor.)
Garrison, Clarence W., Fort Wayne, Ind., assignor to The Koppers Company of Delaware. Purifying a hydrocarbon gas and a hydrocarbon oil. 1,942,054; Jan. 2.
Garvey, James D., Chicago, Ill. Sponge holder. 1,941,550; Jan. 2.
Gatlin, Luther E., Newberry, S. C., assignor to Draper Corporation, Hopedale, Mass. Filling carrier support for looms. 1,941,937; Jan. 2.
Gaylord, Robert, Incorporated. (See Young, Vertrees, assignor.)
Gayter, Eric, Altrincham, assignor to Linotype and Machinery Limited, London, England. Typographical linecasting machine. 1,941,741; Jan. 2.
Gebert, Albert E. (See Antoine, A. D., and Gebert.)
Gebruder Brehmer. (See Kleinschmit, Oscar, assignor.)
Gebruder Brehmer. (See Kleinschmit, O., and Müller, assignors.)
Geffcken, Heinrich H., and H. R. Richter, Leipzig, Germany. Photo-electric tube. 1,942,165; Jan. 2.
Gégauff, Charles, Mulhouse, Haut-Rhin, France. Roller head with endless belts for spinning machines. 1,942,329; Jan. 2.
Geisert, Lewis, Philadelphia, Pa. Line-casting mold. 1,941,679; Jan. 2.
General Aniline Works, Inc. (See Laska, L., and Haller, assignors.)
General Cable Corporation. (See Meyers, John G., assignor.)
General Electric Company. (See Catlett, James T., assignor.)
General Electric Company. (See Foust, Clifford M., assignor.)
General Electric Company. (See Foust, C. M., and Kuehni, assignors.)
General Electric Company. (See Gilbert, Ralph A., assignor.)
General Electric Company. (See Hathaway, Claude M., assignor.)
General Electric Company. (See Kinnard, Isaac F., assignor.)
General Electric Company. (See Leveen, Laurence R., assignor.)
General Electric Company. (See Lorraine, Richard G., assignor.)

General Electric Company. (See Setoguchi, K., and Sakurai, assignors.)
General Electric Company. (See Townsend, George R., assignor.)
General Electric Company. (See Villiers, William A., assignor.)
General Electric Company. (See Westendorp, Willem F., assignor.)
General Electric Company. (See Willard, Waldo W., assignor.)
General Electric Company. (See Young, Andrew H., assignor.)
General Railway Signal Company. (See Bushnell, Charles S., assignor.)
General Railway Signal Company. (See Carter, A. T., and Moore, assignors.)
General Railway Signal Company. (See Dicke, O. H., and Preston, assignors.)
General Railway Signal Company. (See Field, Oscar S., assignor.)
General Railway Signal Company. (See Merkel, Joseph F., assignor.)
General Railway Signal Company. (See Snyder, Howard O., assignor.)
General Railway Signal Company. (See Wickson, Harmon, assignor.)
General Spring Bumper Corporation. (See Gregory, S., and Tompkins, assignors.)
Gerolimich, Ermanno. (See Martinoli, F., and Gerolimich.)
Gefas, Emile, Durban, Union of South Africa, assignor to Automatic Fluid Distributing Company (Proprietary) Limited, Durban, Natal, South Africa. Automatic coin-operated liquid measuring and dispensing device. 1,942,330; Jan. 2.
Getaz, James L., Maryville, Tenn. Method and double stocking blank for manufacturing stockings. 1,942,331; Jan. 2.
Gibb, Donald L. (See Collings, W. R., and Gibb.)
Gibbs, George E., assignor to American Reenforced Paper Company, Attleboro, Mass. Sheet winding machine. 1,942,357; Jan. 2.
Gibson Patent Containers, Ltd. (See Page, John E., assignor.)
Giddings & Lewis Machine Tool Co. (See Gallimore, Keith F., assignor.)
Gilbert, Ralph A., Pittsfield, Mass., assignor to General Electric Company. Welding apparatus. 1,942,055; Jan. 2.
Gilbert, Ray, Clayton, assignor to Curlee Clothing Company, St. Louis, Mo. Belted coat. 1,941,468; Jan. 2.
Gill, Louis M., Brooklyn, assignor to Darco Sales Corporation, New York, N. Y. Filtering device. 1,941,982; Jan. 2.
Gisser, Isidore I., New York, N. Y. Dispensing machine. 1,942,166; Jan. 2.
Gjertsen, Gustav H., St. Paul, Minn., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt cap removing tool. 1,941,551; Jan. 2.
Glatthar, George E., University Heights, and F. Wening, South Euclid, Ohio. Lighting fixture. 1,941,469; Jan. 2.
Glatthar, George E., University Heights, and F. Wening, South Euclid, Ohio. Lighting fixture. 1,941,470; Jan. 2.
Gleaner Harvester Corporation. (See Pierson, Torvald N., assignor.)
Globe Machine & Stamping Company, The. (See Green, Lee B., assignor.)
Globe Ticket Company. (See Feddern, Carl O., assignor.)
Globe Union Mfg. Co. (See Appel, G. C., Vicarey, and Wanvig, jr., assignors.)
Goldschmidt A.-G., Firm Th. (See Sander, Wilhelm, assignor.)
Goldsmith, William M. (See Harig, Benjamin, assignor.)
Goldsmith, William M. (See Goldsmith, W. M., and Harig, assignors.)
Goldsmith, William M., and B. Harig, Cincinnati, Ohio, assignors, by mesne assignments, to said W. M. Goldsmith. Form for concrete floor construction. 1,942,093; Jan. 2.
Goldstein, Lewis W., Pittsfield, Mass. Paper-carton opener. 1,941,680; Jan. 2.
Gollmar, Herbert A., West Caldwell, N. J., assignor to The Koppers Company of Delaware. Flow control apparatus. 1,942,094; Jan. 2.
Gollwitzer, Walter T., Chicago, Ill., assignor to Addressograph Company, Wilmington, Del. Printing machine. 1,941,681; Jan. 2.
Gosman, Osher, Vineland, N. J. Sewing machine attachment. 1,941,858; Jan. 2.
Gossard, H. W., Company, The. (See Wipperman, Hildegard, assignor.)
Gottfried, Carl A., Grand Rapids, Mich. Thermos bathtub. 1,941,832; Jan. 2.
Gottsch, John W., Fontana, Calif. Hen's nest. 1,942,056; Jan. 2.
Government and the People, The free use of the. (See Jones, Howard A.)
Graham, Frank A. (See Green, E. F., and Graham.)
Grassby, George A., jr., Newton Center, Mass., assignor to The Lamson Company, Syracuse, N. Y. Conveyer system. 1,941,891; Jan. 2.
Grasselli Chemical Company, The. (See Lemmerman, P. C., and Schweitzer, assignors.)
Grathwol, William L., assignor to The Bootatuck Corporation, Stratford, Conn. Vacuum cleaner attachment for automobiles. 1,942,358; Jan. 2.
Graves, Benjamin P., Cranston, and A. F. Bennett, West Barrington, R. I., assignors to Brown and Sharpe Manufacturing Company. Machine tool. 1,942,209; Jan. 2.
Gray, Hubert M., Toledo, Ohio. Device for heating windshields or the like. 1,942,057; Jan. 2.
Grayson Appliance Co. Ltd. (See Grayson, John H., assignor.)
Grayson, John H., assignor to Grayson Appliance Co. Ltd., Lynnwood, Calif. Thermostat. 1,941,795; Jan. 2.
Green, A. P., Fire Brick Company. (See Royall, John H., assignor.)
Green, Earl F., and F. A. Graham, assignors to The Manley Manufacturing Company, York, Pa. Mechanical jack. 1,942,244; Jan. 2.
Green, Lee B., Lakewood, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Louver-type radiator grille. 1,941,742; Jan. 2.
Green, Lee B., Lakewood, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Radiator shell and grille assembly. 1,941,797; Jan. 2.
Green, Louis, Parry Sound, Ontario, Canada. Funnel. 1,942,282; Jan. 2.
Gregory, Sydney, Highland Park, and R. R. Tompkins, assignors to General Spring Bumper Corporation, Detroit, Mich. Applying abrasives. 1,941,796; Jan. 2.
Greve, Herman L., Hollis, assignor to International Mailing Tube and Wrapper Company, Long Island City. Manufacturing metal clips. 1,941,892; Jan. 2.
Griffis, Lawrence W., North Tonawanda, assignor to Van Raalte Company, New York, N. Y. Fabric. Des. 91,296; Jan. 2.
Groener, Samuel, Paris, France, assignor to F. Amato, New York, N. Y. Spirally-bound sheaf. 1,942,026; Jan. 2.
Gruber, Joseph, Stanwood, assignor to International Wood and Sulphite Co., Seattle, Wash. Wood barking machine. 1,942,095; Jan. 2.
Gruman, Horace F., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Sewing machine. 1,941,743; Jan. 2.
Guaranty Produce Company. (See Hatcher, Glenn, assignor.)
Guardian Trust Company, The. (See Andrews, Champe S., assignor.)
Guardian Trust Company, The, trustee. (See Page, John E., assignor.)
Gudmundsen, Austin, Milwaukee, Wis. Water cooler and method of cooling water. 1,941,798; Jan. 2.
Gudmundsen, Austin, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Metallurgy of iron. 1,941,983; Jan. 2.
Guggenheim, Paul, assignor to Philadelphia Metal Drying Form Company, Philadelphia, Pa. Hosiery drying apparatus. 1,941,893; Jan. 2.
Guild, Lurelle, Darien, Conn., assignor to C. F. Church Mfg. Co., Holyoke, Mass. Neo-classic bathroom chair. Des. 91,268; Jan. 2.
Guild, Lurelle, Darien, Conn., assignor to C. F. Church Mfg. Co., Holyoke, Mass. Neo-classic bathroom chair. Des. 91,269; Jan. 2.
Guild, Lurelle Van A., Noroton, Conn., assignor to Montgomery Ward & Co., Incorporated Chicago, Ill. Wringer head for washing machines. Des. 91,267; Jan. 2.
Gurton, William S. J. Plint and H. Nyberg, assignors to Dominion Truck Equipment Co. Limited, Kitchener, Ontario, Canada. Fifth wheel connecter for semitrailers. 1,941,682; Jan. 2.
Gustafson, Carl A., assignor to Caterpillar Tractor Co., Minneapolis, Minn. Road-grading machine. 1,941,833; Jan. 2.
Gustin, Daniel S., and E. Dietz, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Cut-out for series lamps. 1,841,984; Jan. 2.
Hale, Frank C. (See Dickie, W. A., and Hale.)
Hale Frank M., Mexico, Mexico. Eraser holder. 1,942,283; Jan. 2.
Hall, Charles S., Los Angeles, Calif. Aircraft propelling and controlling mechanism. 1,941,799; Jan. 2.
Hall, Jackson W., San Francisco, Calif. Cream separator. 1,941,859; Jan. 2.
Hall Manufacturing Company, The. (See Heuer, William E., assignor.)
Hall Manufacturing Company, The. (See Schwakopf, Emil F., assignor.)
Haller, Oskar. (See Laska, L., and Haller.)
Hallerberg, Theodore W., Hawthorne, Calif., assignor, by mesne assignments, to The Commerce Guardian Bank, Toledo, Ohio, as trustee. Control for pressure feed lubricating systems. 1,942,096; Jan. 2.
Hallerberg, Theodore W., Madison, Wis., assignor to The Commerce Guardian Bank, trustee, Toledo, Ohio. Control for pressure feed lubricating systems. 1,942,097; Jan. 2.
Halton, Geoffrey H., Stourport, England, assignor to Steatite and Porcelain Products Limited. Electric insulator. 1,942,284; Jan. 2.
Hamberg, Anna, Los Angeles, Calif. Artificial finger nail. 1,942,332; Jan. 2.
Hameyer, Paul, Hanover, G. Meyer, Dresden-Radebeul, and J. Jungmich, Berlin-Steglitz, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Automatic adjusting system. 1,942,285; Jan. 2.
Hamilton, John R., Cleveland Heights, assignor to Automatic Sprinkler Company of America, Cleveland, Ohio. Booster pump apparatus for fire extinguishing systems. 1,941,683; Jan. 2.

Hamilton Manufacturing Company. (See Worth, Leo F., assignor.)
Hamilton, Van A., Palestine, Tex. Paste distributor. 1,941,800; Jan. 2.
Handy, Levin G., Mountain View, N. J. Ornamental device for use in association with toy electric railways. 1,942,167; Jan. 2.
Hanson, Arden A., Oakland, Nebr. Automobile trunk. 1,941,860; Jan. 2.
Hardgrove, Ralph M., Westfield, N. J., assignor to Fuller Lehigh Company, Fullerton, Pa. Mixing device for gases carrying solid particles. 1,941,471; Jan. 2.
Harig, Benjamin. (See Goldsmith, W. M., and Harig, assignors.)
Harig, Benjamin, assignor, by mesne assignments, to W. M. Goldsmith, Cincinnati, Ohio. Temporary construction mold. 1,942,098; Jan. 2.
Harkness, John, Newfield Smithy, Ruthwell, by Annan, Scotland. Attachment to reaping machines for the purpose of lifting fallen grain. 1,942,286; Jan. 2.
Harley-Davidson Motor Company. (See Harley, William S., assignor.)
Harley, William S., assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Motorcycle protecting guard. 1,941,801; Jan. 2.
Harris, Herbert H., New York, N. Y. Lip stick holder. Des. 91,270; Jan. 2.
Harris, Omar C., assignor of one-half to E. E. Levy, Chicago, Ill. Milk cooler and deodorizer. 1,942,058; Jan. 2.
Hart, Elonza L., Charleston, W. Va. Pipe cutting and beveling apparatus. 1,942,099; Jan. 2.
Hart, George M., minor. (See Milone, Samuel, assignor.)
Hart, Percy E., et al., trustees. (See Milone, Samuel, assignor.)
Hartford, Charles E. (See Sweeney, O. R., and Hartford.)
Hartford-Empire Company. (See Canfield, Robert W., assignor.)
Hartford-Empire Company. (See Henry, K. M., and Noble, assignors.)
Hartford-Empire Company. (See Hiller, Everett O., assignor.)
Hartford-Empire Company, The. (See Miller, W. J., and Lawrence, assignors.)
Harting, Walter, New York, N. Y. Universal folding ladder. 1,942,210; Jan. 2.
Hartshorn, Stanley D., St. Davids, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Coal breaker. 1,941,603; Jan. 2.
Hartwig, Charles W., Hastings on Hudson, N. Y. Combination guard and heat transfer device. 1,942,211; Jan. 2.
Hatcher, Glenn, assignor of one-half to Guaranty Produce Company, Tulsa, Okla. Egg separating apparatus. 1,942,245; Jan. 2.
Hathaway, Claude M., Schenectady, N. Y., assignor to General Electric Company. Oscillographic apparatus. 1,942,059; Jan. 2.
Hatzig, Hans. (See Müller, R., Hatzig, and Rabold.)
Hausch, Theodor. (See Frohlich, H., Hausch, and Zingg.)
Haussmann, Otto G., Philadelphia, Pa. Opthalmic lens. 1,942,333; Jan. 2.
Hawley, John F., Oak Park, assignor to Central Waxed Paper Co., Chicago, Ill. Apparatus for producing perforated paper. 1,942,168; Jan. 2.
Hawthorne, Louis A. (See Zimber, R. M., and Hawthorne.)
Hayes, Herman G., Twin Falls, Idaho. Attachment for removing cigarettes from cigarette packages. 1,942,334; Jan. 2.
Hazel-Atlas Glass Co. (See Bowman, S. B., and Stenhouse, assignors.)
Heco Envelope Co. (See McLaughlin, Henry, assignor.)
Heegner, Kurt, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Transmitter tube circuit. 1,941,472; Jan. 2.
Heinemann, Karl, Dresden, Germany. Conveying apparatus. 1,941,938; Jan. 2.
Heinish, George, Cuyahoga Falls, and L. A. Krupp, assignors to The Star Drilling Machine Company, Akron, Ohio. Drilling machine. 1,941,894; Jan. 2.
Heinrich, Richard, Berlin-Sudende, Germany, assignor, by mesne assignments, to International Precipitation Company, Los Angeles, Calif. Electrical purification. 1,941,861; Jan. 2.
Heitger, Frank H., deceased, M. G. Heitger, Flint, Mich., administratrix. Carburetor. 1,941,862; Jan. 2.
Heitger, Mattie G., administratrix. (See Heitger, Frank H., assignor.)
Heitz, Alka T. A., Walden, N. Y. Laminated board top or covering for furniture, etc. 1,942,287; Jan. 2.
Hem, Halvor W., assignor to Toledo Scale Manufacturing Company, Toledo, Ohio. Weighing scale. 1,941,834; Jan. 2.
Hendrick Manufacturing Company. (See Fowler, George W., assignor.)
Hennings, Oscar, Montclair, N. J. Filter. 1,941,895; Jan. 2.
Henry, Kenneth M., and B. A. Noble, San Francisco, Calif., assignors, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Apparatus for automatically controlling the weight of glass articles made by the gob feed automatic machine process. 1,941,552; Jan. 2.
Heppes, George P., assignor to The Tile-Tex Company, Chicago Heights, Ill. Cooling composition tile. 1,942,060; Jan. 2.
Hershey, Jacob R., Kinzers, Pa. Nut husking machine. 1,941,939; Jan. 2.
Heseltine, Marjorie, Jersey City, N. J., assignor to The Hills Brothers Company, New York, N. Y. Merchandising preserved fruits. 1,942,212; Jan. 2.
Hess, David K., Madison, Wis. Cooling unit. 1,942,288; Jan. 2.
Hester, Levi C., Jacksonville, Fla. Plow. 1,941,940; Jan. 2.
Heuer, William E., assignor to The Hall Manufacturing Company, Toledo, Ohio. Device for adjusting cylinder hones and the like. 1,941,837; Jan. 2.
Heywood, Frank, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Refrigeration with solid carbon dioxide. 1,941,744; Jan. 2.
Hickerson, R. E., administrator. (See Fuller, Kenneth D.)
Higley, Warren L., Tampa, Fla. Measuring dispensing bowl or receptacle. 1,941,745; Jan. 2.
Hile, Leslie M., Benton Harbor, Mich. Rectangular basket. 1,941,835; Jan. 2.
Hill, Matthew E., assignor to The Holfast Rubber Company, Atlanta, Ga. Stock receptacle. 1,941,746; Jan. 2.
Hillard, Henry G., assignor of fifty-one one hundredths to I. H. Bowman, trustee, and one-fifth to I. H. Bowman, Regina, Saskatchewan, Canada. Paper article of apparel. 1,941,836; Jan. 2.
Hillebrand, William A., Barberton, assignor to The Ohio Brass Company, Mansfield, Ohio. Insulator. 1,941,749; Jan. 2.
Hiller, August, Pforzheim, Germany. Band for jewelry purposes. 1,941,684; Jan. 2.
Hiller, Everett O., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Photo-electric control of glass feeders. 1,941,896; Jan. 2.
Hiller, Everett O., Windsor, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding batch to glass melting furnaces. 1,941,897; Jan. 2.
Hills Brothers Company, The. (See Heseltine, Marjorie, assignor.)
Hindle, Frederic O., assignor to The American Scientific Instrument Company, Milford, Conn. String galvanometer. 1,942,027; Jan. 2.
Hine, Alfred E., Sedalia, assignor to E. W. Bacharach, Kansas City, Mo. Intermittent driving mechanism. 1,942,028; Jan. 2.
Hipp, Richard, Jr., Pomaria, S. C. Vehicle headlight control apparatus. 1,942,289; Jan. 2.
Hirt, Leon E., assignor to Hirt Solvent Process Company, Fort Worth, Tex. Conveyer. 1,941,604; Jan. 2.
Hirt Solvent Process Company. (See Hirt, Leon E., assignor.)
Hoag, Wilton F. (See Johnson, L. W., and Hoag.)
Hobbs, John W., assignor to George W. Borg Corporation, Chicago, Ill. Apparatus for illuminating clock dials and the like. 1,941,558; Jan. 2.
Hodgkinson, Edward J. (See Eley, A., and Hodgkinson.)
Hoe, R., & Co. (See Quick, C. G., and Whitehead, assignors.)
Hoffman, Andrew. (See Bock, Charles S., assignor.)
Hofmann, Karl A., Berlin-Westend, Germany, assignor to Asociacion de Productores de Yodo de Chile, Valparaiso, Chile. Wound treating material. 1,942,061; Jan. 2.
Hoguet & Neary. (See Dodge, Harry H., assignor.)
Hohmann, Julius, assignor of one-eighth to Wayman Rice and one-eighth to Andrew J. Langrill, Enochs, Tex. Binder packer arm and pitman. 1,942,335; Jan. 2.
Holcomb, Harry E., Bound Brook, N. J., assignor to Fiberfraks Inc., New York, N. Y. Composite sheeting. 1,941,985; Jan. 2.
Holfast Rubber Company, The. (See Hill, Matthew E., assignor.)
Holt, Samuel, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Printer's quoin. 1,941,747; Jan. 2.
Holt, Samuel, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Slug casting machine. 1,941,748; Jan. 2.
Horn, Fred E., Marshall, Mich. Refrigerator lighting structure. 1,942,290; Jan. 2.
Horst, Tallmon E., Chicago, Ill. Drawing board and the like. 1,941,554; Jan. 2.
Horton, Erwin C., Hamburg, and H. Hueber, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield heater. 1,942,359; Jan. 2.
Houston, George F., South Bend, Ind., assignor to Bendix Research Corporation, East Orange, N. J. Propeller. 1,942,100; Jan. 2.
Howard, James H., assignor to J. H. McAvoy & Company, Houston, Tex. Pipe support. 1,942,213; Jan. 2.
Howarth, Harry A. S., Torresdale, assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Lubricating device and system. 1,942,101; Jan. 2.
Howel, Delta B., Murphysboro, Ill. Apparatus for manufacturing earthenware. 1,941,802; Jan. 2.
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Centrifugal speed governor. 1,941,473; Jan. 2.
Howes, Raymond T. (See Caldwell, L., and Howes.)
Hubbard, Henry E., Chicago, Ill., assignor to Addressograph Company, Wilmington, Del. Printing machine. 1,941,685; Jan. 2.
Hueber, Henry. (See Horton, E. C., and Hueber.)
Huet, André. (See Magis, A. and Huet.)

Huet, André, Paris, France, assignor to The Superheater Company, New York, N. Y. Steam boiler. 1,941,686; Jan. 2.
Hunter, Frederick L., jr., Towaco, assignor to De Forest Radio Company, Jersey City, N. J. Audion construction. 1,941,687, Jan. 2.
Hunter, Herbert T. (See Blinn, H. M., and Hunter.)
Hunter, Robert E., Youngstown, Ohio. Method and apparatus for lifting rails. 1,941,803; Jan. 2.
Hupp Motor Car Corporation, et al. (See MacPherson, Earle S., assignor.)
Hurt, Samuel N. (See Myers, D. D., and Hurt.)
Hutton, Frank E., Pittsburgh, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler. 1,942,169; Jan. 2.
Hyams, Herbert B., St. Paul, Minn. Display device. 1,941,838; Jan. 2.
Hyde, Arthur M., Secretary of Agriculture of the United States of America. (See Cheatham, Robert J., assignor.)
Hydraulic Brake Company. (See Loweke, Erwin F., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Baumann, P., Tanneberger, and Schilling, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Engel, H., and Jannek, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kollek, L., and Engels, assignors.)
Iddings, Carl, Kew Gardens, N. Y. Spraying device. 1,941,898; Jan. 2.
Imperial Chemical Industries Limited. (See Haywood, Frank, assignor.)
Industrial Patents Corporation. (See Ragensburger, Richard W., assignor.)
Ingersoll-Rand Company. (See Evans, Herbert C., assignor.)
Ingersoll-Rand Company. (See Wilhelm, Russell H., assignor.)
International Mailing Tube and Wrapper Company. (See Grove, Herman L., assignor.)
International Motor Company. (See Erskine, Clyde, assignor.)
International Motor Company. (See Fink, Emil C., assignor.)
International Motor Company. (See Masury, Alfred F., assignor.)
International Nickel Company, The. (See French, H. J., and Sands, assignors.)
International Precipitation Company. (See Heinrich, Richard, assignor.)
International Projector Corporation. (See Frappier, L. S., and Boecking, assignors.)
International Radio Corporation. (See Webber, Joseph T., assignor.)
International Standard Electric Corporation. (See Riley, Thomas N., assignor.)
International Wood and Sulphite Co. (See Gruber, Joseph, assignor.)
Irving Trust Company, receiver. (See Quick, C. G., and Whitehead.)
Irwin, William W., East Liverpool, Ohio. Ware support for kilns. 1,941,941; Jan. 2.
Ito, Naoichi, Imazu-Cho, Muko-Gun, Hyogo-Ken, assignor to C. Ohta, Kita-Ku, Osaka, Japan. Hermetic seal for bottles. 1,942,102; Jan. 2.
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,941,555; Jan. 2.
Jacobs, Bertha. (See Sollar, Max, assignor.)
Jacobson, Emanuel, New York, N. Y. Changeable head. 1,942,370; Jan. 2.
Jacobus, David S., Montclair, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fluid heating apparatus. 1,942,170; Jan. 2.
Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Plastic or coating compositions. 1,941,474; Jan. 2.
Jaeger, Alphons O., Mount Lebanon, and H. W. Witzel, Ingram, assignors to The Selden Company, Pittsburgh, Pa. Bleached condensation product of carbohydrates and crude hydrocarbons. 1,941,475; Jan. 2.
Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Motor fuel. 1,941,689; Jan. 2.
Jaeger, Alphons O., Crafton, assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa. Catalytic oxidation of organic compounds. 1,941,688; Jan. 2.
James Manufacturing Company. (See Shodron, J. G., Olson, and Wanschneider, assignors.)
Janchan, Nicholas, West Allis, Wis. Scrubbing machine. 1,941,690; Jan. 2.
Janes, Edmund D., assignor to Scovill Manufacturing Company, Waterbury, Conn. Separable snap fastener socket. 1,942,171; Jan. 2.
Jannek, Josef. (See Engel, H., and Jannek.)
Janson, Axel, assignor to A. D. Smith Corporation, Milwaukee, Wis. Conveyer truck loader. 1,941,986; Jan. 2.
Jarvis, Walter D. (See Marks, H. E., and Jarvis.)
Jefferson, Glenn V., Swissvale, Pa. Game board. 1,942,291; Jan. 2.
Jenkins Television Corporation. (See Short, Donald W., assignor.)
Jenness, Leslie G., Brooklyn, N. Y., assignor to St. Mungo Manufacturing Company of America, Newark, N. J. Vulcanization. 1,941,691; Jan. 2.
Jennings, Chester S., assignor to The Lamson Company, Syracuse, N. Y. Conveyer. 1,941,899; Jan. 2.
Jensen, Peter L., La Grange, assignor to Jensen Radio Manufacturing Company, Chicago, Ill. Making sound reproducers. 1,941,476; Jan. 2.
Jensen, Peter L., Western Springs, assignor to Jensen Radio Manufacturing Company, Chicago, Ill. Making magnetic sound reproducers. 1,941,477; Jan. 2.
Jensen Radio Manufacturing Company. (See Jensen, Peter L., assignor.)
Jobst, Günther, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches, Berlin, Germany. Indirectly heated cathode. 1,941,692; Jan. 2.
Johaneson, David, Chicago, Ill. Water-tight bag. 1,942,246; Jan. 2.
Johanson, Gustav H., trustee. (See Wilhjelm, Christian, assignor.)
Johanason, Erik H. E., Stockholm, Sweden. Thermically coating objects of iron or steel with aluminum or aluminum alloys. 1,941,750; Jan. 2.
Johansson, Johan R., Stockholm, Sweden. Plug cock. 1,941,839; Jan. 2.
Johne-Werk Grafische Maschinen-Aktiengesellschaft. (See Stegmann, Karl, assignor.)
Johnsen, Willard A., Lancaster, Wis. Strap release for casket and burial vault lowering devices. 1,941,605; Jan. 2.
Johnson, Charles A., Lexington, Mass. Electric power distributing system. 1,941,863; Jan. 2.
Johnson, Christian E. (See Court, F. T., Christensen, and Johnson.)
Johnson, George M., assignor to Fort Pitt Mine Equipment Company, Jeannette, Pa. Car handling apparatus. 1,942,247; Jan. 2.
Johnson, Leonard W., and W. F. Hoag, assignors to Johnson Manufacturing Company, Batavia, Ill. Grinding machine. 1,941,478; Jan. 2.
Johnson Manufacturing Company. (See Johnson, L. W., and Hoag, assignors.)
Johnson, Selvar G., Chicago, Ill. Pile-forming and delivery means. 1,942,172; Jan. 2
Jones, Abner C., Lebanon, assignor to Lebanon Steel Foundry, Lebanon, Pa. Producing high silicon and high manganese steel. 1,941,556; Jan. 2.
Jones, Edwin A., assignor to L. J. Mueller Furnace & Company, Milwaukee, Wis. Heater casing. 1,942,103; Jan. 2.
Jones, Howard A., Washington, D. C., dedicated to the free use of the Government and the People. Extracting rotenone from plant material. 1,942,104; Jan. 2.
Judson, Wilber. (See Bacon, R. F., and Judson.)
Julius, Awdry F. (See Julius, George A. and A. F.)
Julius, George A. and A. F., Sydney, New South Wales, Australia. Totalizator odds indicator remote control mechanism. 1,942,336; Jan. 2.
Jungmichl, Joachim. (See Hameyer, P., Meyer, and Jungmichl.)
Justheim, Clarence I., Salt Lake City, Utah. Treating steel. 1,942,173; Jan. 2.
Kaldy, Samuel, Enid, Okla. Towel service cabinet. 1,942,292; Jan. 2.
Kallo Inc. (See Lieberknecht, Karl R., assignor.)
Kane Carburetor Corporation. (See Kane, Frank A., assignor.)
Kane, Frank A., assignor to Kane Carburetor Corporation, Long Island City, N. Y., Carburetor. 1,942,293; Jan. 2.
Kaplan, Max, Brooklyn, N. Y. Material for making decorative devices such as artificial flowers, etc., and making such material. 1,942,174; Jan. 2.
Kauffman, Jack J. (See Socoloff, E., and Kaufman.)
Kaufmann, Werner, Berlin-Siemensstadt, Germany, assignor, by mesne assignments to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,942,294; Jan. 2.
Kaumagraph Company. (See Lawrence, Winthrop S., assignor.)
Kayser, Daniel P. A. A., Paris, France. Apparatus for the lighting of luminescent tubes. 1,942,105; Jan. 2.
Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,941,942; Jan. 2.
Keall, Frank B., and H. E. Elliott, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,941,943; Jan. 2.
Kebrberg, Richard F., Sheldon, Iowa. Cooling and ventilating device. 1,941,864; Jan. 2.
Keller-Dorian Colorfilm Corporation. (See Kitroser, I., and Averan, assignors.)
Kelsey, William A., Minneapolis, Minn. Tool clamp. 1,941,840; Jan. 2.
Kemp, Victor W. G., Grove Park, England. Container for adhesive and the like. 1,942,248; Jan. 2.
Kemper, Alfons, Essen-Bredeney, Germany, assignor to The Koppers Company of Delaware. Refining a benzenoid hydrocarbon oil. 1,942,062; Jan. 2.
Kennedy, Donald S., Longparish, England. Traction belt. 1,942,337; Jan. 2.
Kennedy, Donald S., Longparish, England. Traction belt. 1,942,338; Jan. 2.
Kenny, Alexander, Hammersmith, London, assignor to Fuller's Limited, London, England. Cup-like wrapping element for sweetmeats and the like. 1,941,944; Jan. 2.
Kern, Frederick E., St. Louis, Mo. Process ceramic product and the manufacture thereof. 1,941,804; Jan. 2.

Kerner, Martin J., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Evaporator. 1,941,693; Jan. 2.

Kerr, Charles, jr., Edgewood, and J. K. Stotz, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Reversible cycle heating and cooling system. 1,942,295; Jan. 2.

Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler and furnace therefor. 1,941,865; Jan. 2.

Kilgour, Walter M. S., Lexington, Mass. Alarm device. 1,941,694; Jan. 2.

Kilgour, Walter M. S., Lexington, Mass. Alarm device. 1,941,695; Jan. 2.

Killen, Edward B., London, England: Cushion and like device. 1,942,296; Jan. 2.

Kingsbury Machine Works, Inc. (See Howarth, Harry A. S., assignor.)

Kinley, Frans O. J. (See Blomqvist, C. M. J., and Kinley.)

Kinnard, Isaac F., Lynnfield, Mass., assignor to General Electric Company. Meter testing device. 1,942,063; Jan. 2.

Kirk, John, San Francisco, Calif. Safety gas grate. 1,941,866; Jan. 2.

Kispert, William F., Green Bay, Wis. Flange construction. 1,941,841; Jan. 2.

Kitroser, Isaac, and André Avéran, Paris, France, assignors, by mesne assignments, to Keller-Dorian Colorfilm Corporation, New York, N. Y. Photographic objective. 1,941,696; Jan. 2.

Kittle Manufacturing Co. (See Frey, Elmer E., assignor.)

Kleinschmit, Oscar, assignor to Gebruder Brehmer, Leipzig-Plagwitz, Germany. Apparatus for producing wire staples in coherent strips. 1,942,249; Jan. 2.

Kleinschmit, Oscar, and O. Müller, assignors to Gebruder Brehmer, Leipzig-Plagwitz, Germany. Pasting mechanism for stitching machines. 1,941,867; Jan. 2.

Knabusch, Edward M., and E. J. Shoemaker, assignors to Floral City Furniture Company, Monroe, Mich. Vehicle chair. 1,941,901; Jan. 2.

Knapp, Leland G., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Brooder. 1,941,842; Jan. 2.

Knight, Chesterton S., assignor to Geo. Knight & Co. Inc., Brockton, Mass. Perforating die. 1,942,145; Jan. 2.

Knight, Geo., & Co. Inc. (See Knight, Chesterton S., assignor.)

Knudsen, Carl B., Mamaroneck, assignor to The Cap Coupler Corp., New York, N. Y. Captive cap. 1,942,214; Jan. 2.

Koch, Fred C., L. C. McGee, and T. F. Gallagher, Chicago, Ill., assignors to University of Chicago. Testicular extract and making the same. 1,941,900; Jan. 2.

Koch, Henry, Jamaica, assignor to Dictograph Products Co., Inc., New York, N. Y. Acoustic device. 1,941,987; Jan. 2.

Koch, Roderic M., Evansville, Ind. Basket. Des. 91,271; Jan. 2.

Koetz, Johannes L., assignor to The Selden Company, Pittsburgh, Pa. Preparing catalysts. 1,941,557; Jan. 2.

Kollek, Leo, and W. Engels, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Impregnated and superficially smoothed articles. 1,942,146; Jan. 2.

Kontol Company, The. (See Fischer, C., jr., and Reddish, assignors.)

Koppers Company of Delaware, The. (See Davies, Caleb, jr., assignor.)

Koppers Company of Delaware, The. (See Garrison, Clarence W., assignor.)

Koppers Company of Delaware, The. (See Gollmar, Herbert A., assignor.)

Koppers Company of Delaware, The. (See Kemper, Alfons, assignor.)

Koppers Company of Delaware, The. (See Smith, Charles J., assignor.)

Koppers Company of Delaware, The. (See Sperr, Frederick W., jr., assignor.)

Koster, Henry H., Grand Rapids, Mich. Toilet table or similar article. Des. 91,272; Jan. 2.

Koster, Henry H., Grand Rapids, Mich. Dresser or similar article. Des. 91,273; Jan. 2.

Kostka, Andrew C., Chicago, Ill. Vehicle signal switch. 1,942,297; Jan. 2.

Kottmann, August, Sommerda, Thuringia, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Total-printing device. 1,942,106; Jan. 2.

Krag, Harry W., assignor to American Shoe Machinery and Tool Company, St. Louis, Mo. Dust collector. 1,941,988; Jan. 2.

Krakau, Harry T., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Shock absorbing mechanism. 1,942,175; Jan. 2.

Krebs, E. & Co. (See Dietrich, Jakob, assignor.)

Krupp, Leo A. (See Heinish, G., and Krupp.)

Kuehni, Hans P. (See Foust, C. M., and Kuehni.)

Ku'pinski, Leo, Wausau, assignor to The Menasha Products Company, Menasha, Wis. Carton. 1,941,843; Jan. 2.

Kuzell, Charles R., assignor to United Verde Copper Company, Clarkdale, Ariz. Metallurgical apparatus. 1,941,606; Jan. 2.

Labbe, Paul A., West Springfield, Mass. Combined receptacle and tray. 1,941,538; Jan. 2.

Lambert, Firmen. (See Boring, Clarence H., assignor.)

Lamson Company, The. (See Grassby, Geroge A., jr., assignor.)

Lamson Company, The. (See Jennings, Chester S., assignor.)

Lancaster Asphalt, Inc. (See Robinson, Thomas, assignor.)

Landis & Gyr, A.-G. (See Frohlich, H., Hausch, and Zingg, assignors.)

Landrin, Marcel, Paris, France. Device for transforming motor trucks and similar vehicles into winches. 1,941,945; Jan. 2.

Lane, George S., San Anselmo, assignor to W. Sheehan, San Francisco, Calif. Disk brake. 1,942,029; Jan. 2.

Lane, George S., San Anselmo, assignor to W. Sheehan, San Francisco, Calif. Disk brake. 1,942,030; Jan. 2.

Lang, Franz, Munich, Germany, assignor to Lanova Aktiengesellschaft, Vaduz, Liechtenstein. Injection engine. 1,941,805; Jan. 2.

Lang, Franz, Munich, Germany, assignor to Lanova Aktiengesellschaft, Vaduz, Liechtenstein. Injection engine. 1,941,800; Jan. 2.

Langrill, Andrew J., et al. (See Hohmann, Julius, assignor.)

Lanova Aktiengesellschaft. (See Lang, Franz, assignor.)

Lansing, Raymond P., Montclair, assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Engine starter. 1,942,107; Jan. 2.

Large, John H., Caldwell, assignor, by mesne assignments, to Oscar Schmidt International Corporation, Jersey City, N. J. Stringed musical instrument. 1,941,559; Jan. 2.

Larkin, Dennis F., San Francisco, Calif. Ash receiver. 1,941,844; Jan. 2.

Larsen, Carl J., East Orange, N. J., assignor to Wappler Electric Company, Inc. Speed control device for movable grids. 1,941,989; Jan. 2.

Laska, Leopold, and O. Haller, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Hydroxy-benzo-quinoline-carboxylic acids. 1,942,108; Jan. 2.

Laucks, I. F., Inc. (See Laucks, Irving F., assignor.)

Laucks, Irving F., assignor to I. F. Laucks Inc., Seattle, Wash. Preparing peanut flour for the manufacture of adhesives. 1,942,109; Jan. 2.

Law, George H., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Making reaction products of ketene. 1,942,110; Jan. 2.

Lawrence, Catherine B. (See Lawrence, Clifford E., assignor.)

Lawrence, Clifford E., Newton Highlands, assignor to Catherine Blum Lawrence, Boston, Mass. Pictorial art composition. 1,942,339; Jan. 2.

Lawrence, E. A. (See Miller, W. J., and Lawrence.)

Lawrence, Winthrop S., Brooklyn, assignor to Kaumagraph Company, New York, N. Y. Transfer. 1,941,697; Jan. 2.

Leaf, Sol S., assignor to Overland Candy Corporation, Chicago, Ill. Ice-cream cone. Des. 91,274; Jan. 2.

Leavy, William L., Baltimore, Md. Form fitting diaper. 1,941,868; Jan. 2.

Lebanon Steel Foundry. (See Jones, Abner C., assignor.)

Lebherz, Harry J., assignor to The Eveready Company, Frederick, Md. Cigarette extinguisher and ash tray. 1,941,607; Jan. 2.

Le Doux, Alfred, et al. (See Le Doux, Edward, assignor.)

Le Doux, Clement, et al. (See Le Doux, Edward, assignor.)

Le Doux, Edward, Pawtucket, assignor of one-third to A. Le Doux and one-third to C. Le Doux, Providence, R. I. Eyeglasses. 1,942,298; Jan. 2.

Le Duc, John M., Minneapolis, Minn. Self-lubricating valve. 1,942,031; Jan. 2.

Lee, Harry S., Detroit, Mich. Cement clinker cooling chamber or the like. 1,941,560; Jan. 2.

Lee, Harry S., Detroit, Mich. Cement clinker chamber or the like. 1,941,561; Jan. 2.

Lehmann, Walter, Barmen, assignor to W. Peyinghaus, Egge, Germany. Lubricating of axle bearings for rail vehicles. 1,941,946; Jan. 2.

Leitz, Ernst, Optische Werke, G. m. b. H. (See Plies, Heinrich, assignor.)

Lell, Jacob, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Inc., New York, N. Y. Operation of pumping accumulator plants. 1,941,845; Jan. 2.

Lemmerman, Paul C., and W. K. Schweitzer, East Cleveland, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Adhesive and film forming composition. 1,942,299; Jan. 2.

Lerch, John D., New York, N. Y. Match package. 1,942,300; Jan. 2.

Les Fibres Textiles. (See Faut, Jules A. M., assignor.)

Les Fils D'Albert Collet. (See Collet, P., assignor, and Loiseau.)

Letz, Johannah, New York, N. Y. Brassière. 1,942,250; Jan. 2.

Leveen, Laurence R., Scotia, N. Y., assignor to General Electric Company. Rotary pump. 1,942,064; Jan. 2.

Levi, Julius, assignor to S. Pass, Chicago, Ill. Furniture slip cover. 1,942,111; Jan. 2.

Levy, Abraham, assignor to United Metal Goods Manufacturing Co. Inc., Brooklyn, N. Y. Combined clock case and lamp or similar article. Des. 91,297; Jan. 2.

Levy, Edward E. (See Harris, Omar C., assignor.)

Lewis, Frank E. (See Bouton, E. M., and Lewis.)

Lewis, Frank E. (See Mattingly, H. W., and Lewis.)

Lewis Invisible Stitch Machine Company. (See Gruman, Horace F., assignor.)

Lewis, William H., Pittsburgh, Pa. Manufacture of steel. 1,941,562; Jan. 2.

Lewis, Willis A., Christiana, Pa. Baby carrier. 1,941,902; Jan. 2.

Liberty Lace and Netting Works. (See Worrall, John H., assignor.)

Libby, Harold B., et al. (See Frost, Walter E., assignor.)

Lieberknecht, Karl D., Oberlungwitz, Germany, assignor to Kalio Inc., New York, N. Y. Auxiliary knitting needle. 1,941,903; Jan. 2.

Lienau, Jacob H., New York, and J. J. Neuman, Jamaica, N. Y. Automatic vacuum regulator. 1,941,479; Jan. 2.

Light, Ralph A., Cynwyd, and J. W. Price, jr., assignors to The United States Metallic Packing Company, Philadelphia, Pa. Bell ringing mechanism. 1,942,360; Jan. 2.

Lincoln Engineering Company. (See Barks, Frank S., assignor.)

Linden, Carl, Oakland, Calif. Toy. Des. 91,275; Jan. 2.

Lindstrom, Albert F., Nutley, N. J., assignor to Westinghouse Lamp Company. Lamp coating. 1,941,990; Jan. 2.

Linotype and Machinery Limited. (See Gayter, Eric, assignor.)

Lipman, Harris J., New York, N. Y. Dress buckle. Des. 91,276; Jan. 2.

Lissauer, Firma M., & Cie. (See Witter, Wilhelm, assignor.)

Littlejohn, Henry G., Chicago, Ill., assignor to Scovill Manufacturing Company, Waterbury, Conn. Slide buckle. 1,942,361; Jan. 2.

Livingston, John W. (See Bebie, J., Livingston, and Luthy.)

Lloyd, William, West Orange, N. J., assignor to Ferro-Co Corporation, Brooklyn, N. Y. Shutter for radiator enclosures. 1,941,846; Jan. 2.

Lock, Archibald C., Dulwich, assignor to Simms Motor Units Limited, London, England. Starting gear for internal combustion engines. 1,941,698; Jan. 2.

Locomotive Firebox Company. (See Mitchell, William F., assignor.)

Löffler, Heinrich, Duisburg, Germany. Sock suspender. 1,941,699; Jan. 2.

Loiseau, René. (See Collet, P., and Loiseau.)

Long, James W., and T. G. Collings, Plainfield, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Tape easel for page printers. 1,941,904; Jan. 2.

Lorraine, Richard G., Scotia, N. Y., assignor to General Electric Company. Method of and instrument for measuring surge currents. 1,942,065; Jan. 2.

Lowe, Charles B., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 1,942,176; Jan. 2.

Lowe, Ernest A., assignor to Automatic Sprinkler Company of America, Cleveland, Ohio. Dual action deluge valve. 1,941,700; Jan. 2.

Loweke, Erwin F., assignor to Hydraulic Brake Company, Detroit, Mich. Hydraulic brake. 1,941,563; Jan. 2.

Lowry, Robert D., and F. L. Reynolds, assignors to The Dow Chemical Company, Midland, Mich. Rolling magnesium alloy. 1,941,608; Jan. 2.

Lubs, Herbert A., and H. W. Walker, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating textile material and product. 1,941,991; Jan. 2.

Luce, Willis F., San Francisco, Calif. Fruit shipping carton. 1,942,032; Jan. 2.

Lucke, Charles E., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler and mercury condenser. 1,941,480; Jan. 2.

Lupo, Giacomo, assignor of one-tenth to P. Cantalupo, Brooklyn, N. Y. Fountain brush. 1,941,751; Jan. 2.

Luthy, Max. (See Bebie, J., Livingston, and Luthy.)

Luthy, Max, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Recovering alkaloids from cocoa products. 1,942,177; Jan. 2.

Lyon, George A., Allenhurst, assignor to Lyon Incorporated, Asbury Park, N. J. Combination tire cover and luggage carrier. 1,941,564; Jan. 2.

Lyon Incorporated. (See Lyon, George A., assignor.)

MacDaniel, J. L., Printing Company, The. (See Egenolf, George J., assignor.)

Machenheimer, Adolf, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Fuse plug adapter. 1,942,178; Jan. 2.

Machlet, Adolph W., Elizabeth, N. J. Gas-bulb heating apparatus. 1,941,807; Jan. 2.

MacLean, Allen D., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Dynamic flow control method and apparatus. 1,941,701; Jan. 2.

MacPherson, Earle S., assignor of one-half to Hupp Motor Car Corporation, Detroit, Mich., and one-half to Societe pour l'Exploitation des Brevets, Gadoux, Paris, France. Cylinder head assembly for internal combustion engines. 1,941,947; Jan. 2.

Macready, George A., Los Angeles, Calif. Decomposing ores. 1,941,609; Jan. 2.

Macready, George A., Los Angeles, Calif. Decomposing ores. 1,941,610; Jan. 2.

Madden, Leland S., Pleasantville, N. J. Portable desk top. 1,942,340; Jan. 2.

Madsen, Peter, Huntington Park, Calif. Revoluble stool. 1,942,033; Jan. 2.

Maeder, Frederic, Adelaide, South Australia, Australia. Device for use in waving or curling the hair. 1,941,945; Jan. 2.

Magis, Auguste, and A. Huet, Paris, France, assignors to The Superheater Company, New York, N. Y. Feed water heater. 1,942,179; Jan. 2.

Magnesium Development Corporation. (See Wood, Robert T., assignor.)

Maier, Charles G., Berkeley, Calif., assignor of one-fourth to R. S. Dean, Washington, D. C., and one-fourth to H. A. Doerner, Reno, Nev. Reducing sulphur compounds to elementary sulphur or hydrogen sulphide. 1,941,702; Jan. 2.

Mains, Gerald H., Murrysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hydraulic press. 1,942,251; Jan. 2.

Mair, John E., Mars, Pa., assignor to National Electric Products Corporation, New York, N. Y. Grounding device for electrical wiring systems. 1,941,905; Jan. 2.

Makenny, William, Mountain View, N. J., assignor to Westinghouse Lamp Company. Base feed and staking machine. 1,941,992; Jan. 2.

Mandl, Sigmund, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Socket wrench. 1,941,565; Jan. 2.

Mangin, James, assignor to New Brunswick Electric Supply Company, New Brunswick, N. J. Ground clamp. 1,942,341; Jan. 2.

Mangin, James, assignor to New Brunswick Electric Supply Company, New Brunswick, N. J. Ground clamp. 1,942,342; Jan. 2.

Manikowske, Ethel P. (See Manikowske, George, assignor.)

Manikowske, George, assignor, by mesne assignments, to E. P. Manikowske, Minneapolis, Minn. Wind driven electric power generator with pumping attachment. 1,941,611; Jan. 2.

Manitowoc Shipbuilding Corporation. (See Nickles, Edward B., assignor.)

Manley Manufacturing Company, The. (See Green, E. F., and Graham, assignors.)

Manufacture de Chaussures de Moulins Societe Anonyme. (See Rozier, Henri H., assignor.)

Marathon Company. (See Whittaker, Frederick A., assignor.)

Marinsky, Isaac, assignor of one-half to S. I. Cohen, Providence, R. I. Refrigerator. 1,941,906; Jan. 2.

Marks, Herbert E., Sewickley, and W. D. Jarvis, Pittsburgh, assignors to M. H. Marks, Sewickley, Pa. Supporting structure for use in the production of floors and the like. 1,941,566; Jan. 2.

Marks, Mary H. (See Marks, H. E., and Jarvis, assignors.)

Marschner, Robert F. (See Stoesser, W. C., and Marschner.)

Martl, Othmar K., Haddonfield, N. J., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Circuit breaker. 1,941,567; Jan. 2.

Martin, Benjamin J., Beechhurst, N. Y. Seat attachment for dental chairs and the like. 1,941,907; Jan. 2.

Martin, Harold E., North Providence, R. I., assignor to Brown & Sharpe Manufacturing Company. Lubricating system. 1,942,180; Jan. 2.

Martin, James L., Thornbury, Victoria, Australia. Device for killing flies and other insects. 1,942,252; Jan. 2.

Martinoli, Federico, Trieste, and E. Gerolimich, Monfalcone, Italy. Submarine mine-layer. 1,941,949; Jan. 2.

Martinto, César, Buenos Aires, Argentina. Coupling for shafts forming angles. 1,941,908; Jan. 2.

Martois, Arthur E., Compton, Calif. Casing cutter. 1,941,703; Jan. 2.

Martus, Martin L., Woodbury and E. H. Becker, Waterbury, Conn. Depolarizing electrode. 1,941,869; Jan. 2.

Mason, Alfred E. (See Davis, N. K., and Mason.)

Masonite Corporation. (See Boehm, Robert M., assignor.)

Massey, Augustine H., Stratford, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Attachment plug cap. 1,941,612; Jan. 2.

Massey-Harris Company, The. (See Everett, Charles E., assignor.)

Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Thermostatic relay. 1,941,704; Jan. 2.

Mathieson Alkali Works, Incorporated, The. (See Tressler, Donald K., assignor.)

Mathieson, Alkali Works, Inc., The. (See Tressler, D. K., and Schade, assignors.)

Mattingly, Harold W., Swissvale, and F. E. Lewis, Forest Hills, Pa., assignors to Westinghouse Electric and Manufacturing Company. Elevator door operating apparatus. 1,942,253; Jan. 2.

Maurer, Edwin R., Detroit, and D. M. Ferguson, Highland Park, assignors, by mesne assignments, to Continental-Diveo Company, Detroit, Mich. Mechanism for controlling delivery vehicles. 1,942,181; Jan. 2.

May Hosiery Mills. (See Beavers, Robert S., assignor.)

McAleer, Charles F., assignor to Sutherland Paper Company, Kalamazoo, Mich. Container. 1,941,568; Jan. 2.

McAvoy, J. H., & Company. (See Howard, James H., assignor.)

McCann, Michael, Glen Morris, assignor to Frederick Osann Company, New York, N. Y. Single thread sewing machine. 1,941,481; Jan. 2.

McChesney, David, Kirkland Lake, Ontario, Canada. Wall board joint. 1,942,392; Jan. 2.
McClure, Frances M., New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md. Secretary. Des. 91,298; Jan. 2.
McConnaughay, Kenneth E., assignor to Pre Cote Corporation, Indianapolis, Ind. Emulsifier. 1,941,808; Jan. 2.
McCraven, Bonner N., Bloomfield, N. J., assignor to The New Jersey Zinc Company, New York, N. Y. Manufacture of zinc oxide. 1,941,569; Jan. 2.
McDonald, Angus N., Detroit, Mich., assignor to Detroit Show Case Company. Store front sash. 1,941,570; Jan. 2.
McDonell, Rob Roy, Oakland, Calif. Pressure gauge stabilizer. 1,941,613; Jan. 2.
McGee, Lemuel C. (See Koch, F. C., McGee, and Gallagher.)
McGowen, Thomas H., Butler, Pa., assignor to Spaide Shirt Company. Shirt pressing machine. 1,942,254; Jan. 2.
McGowen, William R., assignor to The McKay Company, Pittsburgh, Pa. Furniture. 1,942,301; Jan. 2.
McGowen, William R., assignor to The McKay Company, Pittsburgh, Pa. Furniture. 1,942,302; Jan. 2.
McKay Company, The. (See McGowen, William R., assignor.)
McKee, Ralph H., Jersey City, N. J. Hydrogenating and distilling oil shale. 1,941,809; Jan. 2.
McLaughlin, Henry, assignor to Heco Envelope Co., Chicago, Ill. Envelope. 1,941,847; Jan. 2.
McQuilkin, Dwight E., Roanoke, Va. Collapsible chair. 1,942,112; Jan. 2.
Mechanics Universal Joint Company. (See Swenson, Carl E., assignor.)
Meckler, Samuel, St. Paul, Minn. Perforating attachment for printing presses. 1,941,848; Jan. 2.
Meehan, John C., Pell City, Ala., assignor to Draper Corporation, Hopedale, Mass. Bobbin guide. 1,941,950; Jan. 2.
Mélik-Minassiantz, Raphael, Paris, France. Dial for various apparatus. 1,942,343; Jan. 2.
Menasha Products Company, The. (See Kuipinski, Leo, assignor.)
Meng, Arthur, Cleveland, Ohio. Nut cracker. Des. 91,277; Jan. 2.
Mercury Manufacturing Company. (See Schroeder, William, assignor.)
Merenna, John S. (See Colavito, M., and Merenna.)
Mergenthaler Linotype Company. (See Albrecht, Christian A., assignor.)
Mergenthaler Linotype Company. (See Burt, Harold A., assignor.)
Mergenthaler Linotype Company. (See Holt, Samuel, assignor.)
Merkel, Joseph F., assignor to General Railway Signal Company, Rochester, N. Y. Contact finger for relays. 1,942,147; Jan. 2.
Merrimac Chemical Company. (See Wilson, William S., assignor.)
Merrow Machine Company, The. (See Washburn, John M., assignor.)
Mertzanoff, André M., New York, N. Y. Radiator. 1,941,705; Jan. 2.
Metallic Sash-Operator Company. (See Muschong, Peter J., assignor.)
Metallrelief G. m. b. H. (See Bogaerts, Hubert, assignor.)
Meyer, Fred C., Paterson, and G. E. Moffitt, East Paterson, assignors to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Pothead or terminal for electric cables. 1,941,614; Jan. 2.
Meyer, Gerhart. (See Hameyer, P., Meyer, and Jungmichl.)
Miami Cabinet Company, The. (See Ash, James W., assignor.)
Michelin, André J., Paris, assignor to Michelin et Cie, Clermont-Ferrand, France. Lifting apparatus. 1,942,114; Jan. 2.
Michelin et Cie. (See Michelin, André J., assignor.)
Midwest Manufacturing Company. (See Wittemeier, H., and Neumann, assignors.)
Milhening, J., Inc. (See Bager, Ernest, assignor.)
Miller, Andrew B., Baldwin, Wis. Washing machine. 1,941,706; Jan. 2.
Miller, Anna B., et al., trustees. (See Milone, Samuel, assignor.)
Miller, Carl W., et al., trustees. (See Milone, Samuel, assignor.)
Miller, Hans R., Fergus Falls, Minn. Road building machine. 1,942,034; Jan. 2.
Miller, Oscar, assignor of forty per cent to F. Cline, Denver, Colo. Automatic fare box. 1,941,707; Jan. 2.
Miller, Roy G., Farmingdale, assignor to Curtiss Aeroplane & Motor Company, Inc., Buffalo, N. Y. Airplane wing spar. 1,942,391; Jan. 2.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distilling tar. 1,942,371; Jan. 2.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar or pitch. 1,942,372; Jan. 2.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Preparing creosoting compositions. 1,942,373; Jan. 2.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distilling tar and recovering oils with apparatus therefor. 1,942,374; Jan. 2.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Coal and tar distillation. 1,942,375; Jan. 2.
Miller, William J., Swissvale, and E. A. Lawrence, Bellevue, Pa., assignors to The Hartford-Empire Company, Hartford, Conn. Process and apparatus for feeding glass. 1,942,035; Jan. 2.
Mills, Orrie J., Hudson Falls, and W. G. Webb, Glens Falls, N. Y. Screen. 1,942,303; Jan. 2.
Milone, Samuel, Camden, N. J., assignor of forty-nine one hundredths to C. W. Miller, A. B. Miller, and A. Cronin, Stonehurst, trustees for Duall Laboratories, Philadelphia, Pa., seventeen one hundredths to P. E. Hart, Camden, N. J., as trustee for G. M. Hart, a minor, and two one hundredths to F. R. Cawl, Bryn Mawr, Pa. Automobile appliance. 1,942,115; Jan. 2.
Minton, Paul H., Chatham, N. J. Propelling mechanism for tube forming machines. 1,941,993; Jan. 2.
Mitchell, William F., St. Paul, Minn., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive front end. 1,942,215; Jan. 2.
Monsanto Chemical Company. (See Bebie, J., Livingston, and Luthy, assignors.)
Monsanto Chemical Company. (See Conover, Courtney, assignor.)
Monsanto Chemical Company. (See Luthy, Max, assignor.)
Montgomery, H. B. (See Tatro, Lysle G., assignor.)
Montgomery Ward & Co. (See Knapp, Leland G., assignor.)
Moore, Edmund W. (See Carter, A. T., and Moore.)
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,942,182; Jan. 2.
Mosler Lock Company, The. (See Benham, William T., assignor.)
Moto Meter Gauge & Equipment Corporation. (See Blodgett, George R., assignor.)
Mueller, L. J., Furnace Company. (See Jones, Edwin A., assignor.)
Mullen, Thomas W., El Dorado, Ark. Combined blowout patch and plug. 1,942,116; Jan. 2.
Müller, Helmuth, Burghausen, assignor to Dr. Alexander Wacker Gesellschaft für Elektro-Chemische Industrie, G. m. b. H., Munich, Germany. Diaphragm for electrolytic cells. 1,942,183; Jan. 2.
Müller, Oskar. (See Kleinschmidt, O., and Müller.)
Müller, Richard, H. Hatzig, and E. Rabald, Mannheim, assignors to C. F. Boehringer & Soehne G. m. b. H., Mannheim-Waldorf, Germany. Separating acetic acid from acetic acid anhydride. 1,941,951; Jan. 2.
Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Paper carriage equipment for calculating machines. 1,942,216; Jan. 2.
Minneapolis-Honeywell Regulator Company. (See Denison, F. S., and Taylor, assignors.)
Minneapolis-Honeywell Regulator Company. (See Fillo, Francis, assignor.)
Minneapolis-Honeywell Regulator Company. (See Taylor, Daniel G., assignor.)
Minorsky, Nicolai, Swarthmore, Pa., assignor to Bendix Aviation Corporation, South Bend, Ind. Induction compass. Re19,038; Jan. 2.
Mirick, Carlos B., assignor to National Electrical Supply Company, Washington, D. C. Mechanism for radio operated repeat motion. 1,941,615; Jan. 2.
Mitchell, Allen K., jr., Munhall, Pa. Curtain stretcher. 1,941,810; Jan. 2.
Mochi, Ugo, Yonkers, N. Y., assignor to The Enamel Products Company, Cleveland, Ohio. Table. Des. 91,278; Jan. 2.
Moffitt, George E. (See Meyer, F. C., and Moffitt.)
Mollberg, Byron, assignor to Carter Carburetor Corporation, St. Louis, Mo. Drain valve. 1,941,482; Jan. 2.
Molten, Louis A., Rutherford, N. J. Headlamp safety device. 1,941,571; Jan. 2.
Montgomery Ward & Co. (See Guild, Lurelle V. A., assignor.)
Montgomery Ward & Co. (See Ryan, Clement D., assignor.)
Moore Brothers Company. (See Dibble, Claude M., assignor.)
Moore, Laurence D. (See Wilcox, Vance S., assignor.)
Moorman, Charles L., Chicago, Ill. Table. 1,941,483; Jan. 2.
Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Core pulling and ejecting mechanism. 1,941,811; Jan. 2.
Morrow, Joseph H., Hokendauqua, Pa., assignor to Fuller Company. Conveying apparatus. 1,941,572; Jan. 2.
Morrow, Joseph H., Hokendauqua, assignor to Fuller Company, Catasauqua, Pa. Conveying system. 1,941,573; Jan. 2.
Moss, William H., Cumberland, Md., assignor to Celanese Corporation of America. Coating and product thereof. 1,941,709; Jan. 2.
Moss, William H., Cumberland, Md., assignor to Celanese Corporation of America. Composition containing derivatives of cellulose. 1,941,710; Jan. 2.
Moss, William H., and B. B. White, Cumberland, Md., assignors to Celanese Corporation of America, New York, N. Y. Coating composition and film produced thereby. 1,941,708; Jan. 2.

Mueller, Richard P., New York, N. Y., assignor to J. B. Brady, Somerset, Md. Aircraft control system. 1,941,616; Jan. 2.
Müller, Richard. (See Stelkens, W., and Müller.)
Muntz, Eric P., Hamilton, Ontario, Canada. Machine for the production of a plurality of substantially similar units. 1,941,812; Jan. 2.
Muschong, Peter J., St. Louis, Mo., assignor to Metallic Sash-Operator Company. Gear pinion. 1,941,994; Jan. 2.
Mussey, William H., Chicago, Ill., assignor, by mesne assignments, to Pullman Car & Manufacturing Corporation. Rubber spring. 1,941,995; Jan. 2.
Mussey, William H., Chicago, Ill., assignor, by mesne assignments, to Pullman Car & Manufacturing Corporation. Equalizer seat cushion. 1,941,996; Jan. 2.
Myers, Don D., and S. N. Hurt, assignors to Toledo Scale Manufacturing Company, Toledo, Ohio. Weighing scale. 1,941,849; Jan. 2.
Myers, John G., Rome, assignor to General Cable Corporation, New York, N. Y. Coil winding mandrel. 1,942,113; Jan. 2.
Myers, Scott P., et al. (See Price, Albert C., assignor.)
Mylius, Walter G. (See Rutter, A. R., and Mylius.)
Mylting, Lauritz E., Hamburg, Pa., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Shaft and applying noncorrosive metallic sheathing thereto. 1,942,304; Jan. 2.
Nasmith, John L., Eltham, London, assignor to Vickers-Armstrongs Limited, Westminster, England. Apparatus for bending or creasing cardboard, fiber board, or the like. 1,941,484; Jan. 2.
National Bearing Metals Corporation. (See Crawford, Samuel W., assignor.)
National Bearing Metals Corporation. (See Vigne, Albert, assignor.)
National Electric Products Corporation. (See Mair, John E., assignor.)
National Electrical Supply Company. (See Mirick, Carlos B., assignor.)
National Malleable and Steel Castings Company. (See Krakau, Harry T., assignor.)
National Malleable and Steel Castings Company. (See Schmidt, Ernest H., assignor.)
National Transit Pump & Machine Company. (See Valentine, Warren P., assignor.)
Neahr, Jacob E., Scarsdale, N. Y. Smoker's utensil. 1,941,617; Jan. 2.
Neely, Frank R., assignor to A. H. Balliet Corporation. Allentown, Pa. Box covering method and product. 1,942,362; Jan. 2.
Nemirovsky, Leon, assignor to A. Belloy, Paris, France. Multiple system. 1,941,618; Jan. 2.
Nerney, George E., assignor to Bay State Optical Company, Attleboro, Mass. Spectacle frame. Des. 91,279; Jan. 2.
Nestle-Lemur Company, The. (See Cox, John W.)
Neuman, Jacob J. (See Lienau, J. H., and Neuman.)
Neumann, Willy. (See Wittemeier, H., and Neumann.)
New Brunswick Electric Supply Company. (See Mangin, James, assignor.)
New Jersey Zinc Company, The. (See Bunce, Earl H., assignor.)
New Jersey Zinc Company, The. (See McCraven, Bonner N., assignor.)
Newman, Charles, New York, N. Y., and W. O. Roach, Chicago, Ill., assignors, by mesne assignments, to Roach Appleton Manufacturing Company, South Bend, Ind. Pry-out for switch boxes and the like. 1,941,997; Jan. 2.
Niagara Fold, Inc. (See Fleming, John S., assignor.)
Nichols, Fred L., Minneapolis, Minn. Door operator. 1,941,574; Jan. 2.
Nickles, Edward B., assignor to Manitowoc Shipbuilding Corporation, Manitowoc, Wis. Boom construction. 1,941,952; Jan. 2.
Nielsen, August V., Salt Lake City, Utah. Self-closing valve. 1,941,711; Jan. 2.
Nixon, Jeddy D., and T. S. Park, said Nixon, assignor to American Engineering Corporation, Houston, Tex. Tubing anchor. 1,941,813; Jan. 2.
Noble, Burton A. (See Henry, K. M., and Noble.)
Norris, Nelson H., Bath, N. Y. Article separating and grading apparatus. 1,942,117; Jan. 2.
Nyberg, Herman. (See Gurton, W. S., Flint, and Nyberg.)
O'Connor, Arthur F., assignor to Equipment Specialties Company, Chicago, Ill. Well trap. 1,941,814; Jan. 2.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Hillebrand, William A., assignor.)
Ohta, Chisada. (See Ito, Naoichi, assignor.)
Ohta, Chisada, Kita-Ku, Osaka, Japan. Hermetic seal for bottles. 1,941,712; Jan. 2.
Okonite-Callender Cable Company. (See Meyer, F. C., and Moffitt, assignors.)
Oliver, Charles, Chislehurst, assignor to Oliver Pell Control Limited, Woolwich, England. Apparatus for use in or in conjunction with cigarette making machines. 1,941,752; Jan. 2.
Olson, John B. (See Shodron, J. G., Olson, and Wandschneider.)
Oltarsh, J. (See Derriey, Lizzie, assignor.)
Oltarsh, J. (See Willheim, William, assignor.)
Osann, Frederick, Company. (See McCann, Michael, assignor.)
Ottawa River Paper Company. (See Walker, Walter H., assignor.)
Overland Candy Corporation. (See Leaf, Sol S., assignor.)
Owens, Freeman H., New York, N. Y. Recording and reproducing photographic sound records. 1,942,066; Jan. 2.
Owens, Freeman H., New York, N. Y. Dual shutter control system for photographic sound apparatus. 1,942,067; Jan. 2.
Owens, Freeman H., New York, N. Y. Sound-controlling device for talking picture apparatus. 1,942,068; Jan. 2.
Pacific Pitting Machine Company Inc. (See Bem, Joseph P., assignor.)
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Padelford, Lester E., assignor to Republic Metalware Company, Buffalo, N. Y. Bread box. 1,941,998; Jan. 2.
Page, John E., Sydney, New South Wales, Australia, assignor, by mesne assignments, to The Guardian Trust Company, Cleveland, Ohio, trustee for Gibson Patent Containers, Ltd. Container. 1,941,610; Jan. 2.
Page, Rosario J., Fort Kent, Maine. Temple hinge or mounting for spectacles. 1,941,575; Jan. 2.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,280; Jan. 2.
Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,299; Jan. 2.
Palmblad, Paul, et al. (See Brazeau, Lloyd F., assignor.)
Pangborn Corporation. (See Rosenberger, William A., assignor.)
Park, Tracy S. (See Nixon, J. D., and Park.)
Parker, Arthur L., Cleveland, Ohio. Primer for gas engines. 1,942,255; Jan. 2.
Parsons, Robert V., Johnstown, Pa. Foot corrective device. 1,941,713; Jan. 2.
Pasman, Abram N., Waterbury, Conn. Waste and overflow fitting. 1,941,714; Jan. 2.
Pass, Sam. (See Levi, Julius, assignor.)
Pass & Seymour, Inc. (See Russell, Mark N., assignor.)
Pasternack, Richard, Brooklyn, and G. O. Cragwall, Queens Village, assignors to Charles Pfizer & Company, Brooklyn, N. Y. Manufacture of leather. 1,941,485; Jan. 2.
Paul, Talbert W., Kansas City, Kans., assignor to Deere & Company, Moline, Ill. Slip clutch. 1,942,217; Jan. 2.
Payne, Cleveland, Memphis, Tenn. Obstetrical table. 1,942,344; Jan. 2.
Peale-Davis Company. (See Peale, Richard, assignor.)
Peale, Richard, St. Benedict, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Process and mechanism for separating intermixed divided materials. 1,941,490; Jan. 2.
Peelle, Company, The. (See Peelle, Robert S., assignor.)
Peelle, Robert S., Hollis, assignor to The Peelle Company, Brooklyn, N. Y. Operator for ventilators. 1,941,909; Jan. 2.
Pegg, Albert C., Los Angeles, Calif. Method of and apparatus for projecting motion pictures accompanied by sound. 1,942,036; Jan. 2.
Pell, Oliver, Control Limited. (See Oliver, Charles, assignor.)
Pennsylvania Crusher Company. (See Hartshorn, Stanley D., assignor.)
Pettis, Fred A., assignor to Remington Rand Inc., Buffalo, N. Y. Filing device. 1,941,910; Jan. 2.
Petz, John L., assignor to Electromatic Typewriters, Inc., Rochester, N. Y. Typewriting machine. 1,942,305; Jan. 2.
Peyinghaus, Walter. (See Lehmann, Walter, assignor.)
Pfisterer, Karl, Stuttgart-Unterturkheim, Germany. Wide span cable connecter for high-voltage lines. 1,941,715; Jan. 2.
Pfizer, Charles, & Company. (See Pasternack, R., and Cragwall, assignors.)
Philadelphia Metal Drying Form Company. (See Guggenheim, Paul, assignor.)
Phipps, William A. P., Rye, N. Y. Combined door catch and buffer. 1,941,576; Jan. 2.
Pickel, Fred, and W. von Poelgeest, Hasbrouck Heights, N. J. Window sash construction. 1,941,716; Jan. 2.
Pierson, Torvald N., assignor to Gleaner Harvester Corporation, Independence, Mo. Harvesting machine. 1,942,037; Jan. 2.
Picty, Raymond G., New York, N. Y., assignor to Bremer-Tully Manufacturing Company, Chicago, Ill. Radio receiving circuit. 1,942,385; Jan. 2.
Pignone, Joseph, New York, N. Y. Gauge. 1,942,118; Jan. 2.
Pikul, Joseph, Troy, N. Y., assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole sewing machine. 1,941,620; Jan. 2.
Pilcher, John A., Roanoke, Va., assignor to Western Railway Equipment Company, St. Louis, Mo. Auxiliary lateral journal bearing. 1,941,486; Jan. 2.
Pissacano, Albert, New York, N. Y. Window shield wiper. 1,942,184; Jan. 2.
Pittsburgh Equitable Meter Company. (See MacLean, Allen D., assignor.)
Place, Bion C., assignor of one-half to G. E. Gagnier, Detroit, Mich. Securing trim panel. 1,942,119; Jan. 2.

Plies, Heinrich, assignor to Ernst Leitz, Optische Werke, G. m. b. H., Wetzlar, Germany. Holder for microscopes. 1,941,753; Jan. 2.
Plint, Joseph. (See Gurton, W. S., Plint, and Nyberg.)
Plummer, William B., assignor to Standard Oil Company, Chicago, Ill. Hydrocarbon conversion process. 1,941,577; Jan. 2.
Plummer, William B., assignor to Standard Oil Company, Chicago, Ill. Hydrogenation system. 1,942,120; Jan. 2.
Pootatuck Corporation, The. (See Grathwol, William L., assignor.)
Portail, Fernand C. F., assignor to Societe Anonyme le Carbone, Gennevilliers, France. Carbureting process and apparatus. 1,941,487; Jan. 2.
Potter, Frederick T., Newton, assignor to Stark Tool Company, Waltham, Mass. Blowtorch. 1,941,755; Jan. 2.
Potter, Robert S. (See Richter, P. C., and Potter.)
Potter, William H., Warrington, England. Annealing and zinc coating ferrous articles. 1,942,121; Jan. 2.
Pre Cote Corporation. (See McConnaughay, Kenneth E., assignor.)
Preston, Neil D. (See Dicke, O. H., and Preston.)
Price, Albert O., Uhrichsville, Ohio, assignor of one-fourth to R. W. Rutledge and S. P. Myers. Traffic signal. 1,942,306; Jan. 2.
Price, James R., Providence, R. I. Spoon or similar article. Des. 91,281; Jan. 2.
Price, Joseph W., jr. (See Light, R. A., and Price, jr.)
Prime Manufacturing Company. (See Ridderstrom, Andrew R., assignor.)
Propp, M., Co. Inc., The. (See Propp, Morris, assignor.)
Propp, Morris, assignor to The M. Propp Co. Inc., New York, N. Y. Electrical attachment fitting. 1,941,488; Jan. 2.
Propp, Morris, Far Rockaway, assignor to The M. Propp Co. Inc., New York, N. Y. Electrical attachment fitting. 1,941,489; Jan. 2.
Pruneau, Wilfrid, Almaville, Quebec, Canada. Drainage control. 1,941,578; Jan. 2.
Puckle, Owen S., Sydenham, London, England, assignor to Radio Corporation of America. High-frequency radiosignaling apparatus. 1,941,543; Jan. 2.
Pulliam, Richard A. (See Fraley, Louis, assignor.)
Pullman Car & Manufacturing Corporation. (See Mussey, William H., assignor.)
Pump, Ernst, Hamburg, Germany. Process and machine for manufacturing tubes. 1,941,953; Jan. 2.
Putnam, George F., Goodrich, Mich. Roller abstractor. 1,941,756; Jan. 2.
Quick, Cecil G., Eltham, London, and W. A. Whithead, Southall, England, assignors to R. Hoe & Co., Inc., New York, N. Y.; Irving Trust Company, receiver. Web cutting and sheet forwarding mechanism. 1,941,754; Jan. 2.
Quijano, Jorge, Mexico, Mexico. Calculator. 1,941,911; Jan. 2.
Quine, Rose B., Newton, Mass. Corset. 1,942,038; Jan. 2.
Rabald, Erich. (See Miller, R., Hatzig, and Rabald.)
Rabell, Miriam E., Pelham Manor, N. Y. Sanitary appliance. 1,941,717; Jan. 2.
Radio Corporation of America. (See Dow, Orville E., assignor.)
Radio Corporation of America. (See Puckle, Owen S., assignor.)
Radio Corporation of America. (See Seeley, Stuart W., assignor.)
Radio Corporation of America. (See Winchell, Arthur B., assignor.)
Ragsdale, Earl J. W., Norristown, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Aircraft wing structure. 1,942,148; Jan. 2.
Ragsdale, Earl J. W., Norristown, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Airplane body. 1,942,149; Jan. 2.
Ramsey, Elmer R. (See Bull, A. W., and Ramsey.)
Rasmussen, Edward L., Seattle, Wash. Grass clipper. 1,941,718; Jan. 2.
Rawlings, John J., assignor of one-half to The Rawlplug Company Limited, London, England. Wall plug. 1,942,256; Jan. 2.
Rawlplug Company Limited, The. (See Rawlings, John J., assignor.)
Raybestos-Manhattan, Inc. (See Albert, Hamilton, assignor.)
Raybestos-Manhattan, Inc. (See Repony, Daniel, assignor.)
Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf club. 1,942,122; Jan. 2.
Reddish, Warren T. (See Fischer, C., and Reddish.)
Redmer, Martin H., Chicago, Ill. Stock feeding collet. 1,941,999; Jan. 2.
Reece Button Hole Machine Company, The. (See Pikul, Joseph, assignor.)
Reed Candy Company. (See Reed, Clarence D., assignor.)
Reed, Clarence D., assignor to Reed Candy Company, Chicago, Ill. Display holder or package. 1,941,757; Jan. 2.
Reesh, Joannes E. W., Chatenay, assignor to Société Anonyme de Conservation Industrielle du Poisson, Paris, France. Refrigerator. 1,942,307; Jan. 2.
Regalite, Inc. (See Wehrenberg, George E., assignor.)
Regensburger, Richard W., assignor, by mesne assignments, to Industrial Patents Corporation, Chicago, Ill. Egg packing. 1,941,954; Jan. 2.
Reis, Curt F., assignor to Excel Magneto Co., Chicago, Ill. Magneto. 1,942,123; Jan. 2.
Keller, Edwin F. O., Evansville, Ind. Convertible screen and table. 1,941,579; Jan. 2.
Remington Arms Company. (See Brun, Willi, assignor.)
Remington Rand Inc. (See Pettis, Fred A., assignor.)
Remington Rand Inc. (See Wolters, Carl F., assignor.)
Rensetti, Luigi, Medford, Mass. Window screen. 1,942,308; Jan. 2.
Repony, Daniel, Clifton, assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Nonslipping surface and making the same. 1,941,912; Jan. 2.
Republic Metalware Company. (See Padelford, Lester E., assignor.)
Resek, Jules V. (See Davies, L. L., Resek, and Carson, jr.)
Resek, Jules V., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Fluid mixer. 1,942,270; Jan. 2.
Rex Products & Manufacturing Company. (See Dinley, Clarence F., assignor.)
Reynolds, Fred E. (See Lowry, R. D., and Reynolds.)
Reynolds, Ira S., Kirkwood, Mo. Curing concrete. 1,942,000; Jan. 2.
Reynolds, Merrick, Los Angeles, Calif. Toilet paper holder. Des. 91,282; Jan. 2.
Rheinische Metallwaaren- und Maschinenfabrik. (See Kottmann, August, assignor.)
Rice, Wayman, et al. (See Hohmann, Julius, assignor.)
Richter, Hans R. (See Geffcken, H. H., and Richter.)
Richter, Paul C., Stamford, and R. S. Potter, Greenwich, assignors to The Yale & Towne Manufacturing Company, Stamford, Conn. Door closer. 1,942,185; Jan. 2.
Ridderstrom, Andrew R., Nahant, assignor to Prime Manufacturing Company, Lynn, Mass. Folding machine. 1,942,363; Jan. 2.
Riebel, Frederick, jr., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Suction cleaner. 1,941,758; Jan. 2.
Riebel, Frederick, jr., and D. M. Dow, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio. Applicator. 1,941,759; Jan. 2.
Riley Stoker Corporation. (See Armour, James W., assignor.)
Riley Stoker Corporation. (See De Voe, William E., assignor.)
Riley, Thomas N., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric cable. 1,941,913; Jan. 2.
Ringer, Ferdinand, Vienna, Austria. Igniting stick. 1,941,621; Jan. 2.
Ringstrom Ivan G., St. Paul, Minn. Fluid pressure operated device. 1,941,815; Jan. 2.
Rinman, Erik L., Djursholm, Sweden. Producing valuable products from vegetable substances. 1,941,760; Jan. 2.
Ristow, Carl, Berlin, Germany. Manufacture of paper bottles. 1,942,345; Jan. 2.
Roach Appleton Manufacturing Company. (See Newman, C., and Roach, assignors.)
Roach, Walter O. (See Newman, C., and Roach.)
Robeck, Joseph, Lincoln, Nebr. Show case. 1,942,124; Jan. 2.
Robertson, Charles J. (See Ware, W. C., and Robertson.)
Robinson, Ernest M. (See Stavely, R., Robinson, Ernest M. and P. A.)
Robinson, Joseph, New York, N. Y., assignor of one-half to R. M. Wolvin, Montreal, Quebec, Canada. Automatic train pipe coupling head. 1,941,622; Jan. 2.
Robinson, Percival A. (See Stavley, R., and Robinson, Ernest M. and P. A.)
Robinson, Thomas, assignor to Lancaster Asphalt, Inc., New York N. Y. Building product and making same. 1,941,491; Jan. 2.
Rodrian, Richard, assignor of one-half to H. H. Butterman, New York, N. Y. Electrochemical process for the recovery of metals from ores and other metal bearing materials. 1,941,914; Jan. 2.
Rohn, Chester F., Whitefish Bay, and F. A. Rohn, Milwaukee, Wis., Shoe. 1,942,001; Jan. 2.
Rohn, Franklyn A. (See Rohn, Chester F., and F. A.)
Rohn, Wilhelm, Hanau-on-the-Main, Germany. Alloy for surgical needles. 1,942,150; Jan. 2.
Romanelli, Emilio, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Automatic temperature control device. 1,942,002; Jan. 2.
Rondot, Léon A. B., Jeanne-Rose, Montchanin, France. Remote transmission and control device. 1,941,955; Jan. 2.
Rood, Arnold C., Boston, Mass., assignor to Una Welding & Bonding Company, Cleveland, Ohio. Welding electrode. 1,942,364; Jan. 2.
Rosellini, Caesar, Chicago, Ill. Cooker. 1,941,580; Jan. 2.
Rosenberger, William A., assignor to Pangborn Corporation, Hagerstown, Md. Hydraulic core knockout and cleaning apparatus for castings and the like. 1,941,915; Jan. 2.
Rosenstein, Ludwig, San Francisco, Calif., assignor to United Verde Copper Company. Recovery of sulphur. 1,941,623; Jan. 2.
Rosenthal, Herman, New York, N. Y. Trouser supporting vest. 1,942,151; Jan. 2.
Ross, David E., assignor to Rostone, Incorporated, La Fayette, Ind. Window sash. 1,942,125; Jan. 2.
Ross, Oscar A., New York, N. Y. Motion picture reel. 1,942,186; Jan. 2.

Rostone, Incorporated. (See Ross, David E., assignor.)
Roth, Fred H., Chicago, Ill. Vaporizer for internal-combustion engines. 1,941,761; Jan. 2.
Roth, Harris C., South Bend, Ind., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Variable pitch propeller. 1,942,126; Jan. 2.
Rothermel, Samuel W., Lynbrook, assignor to The Western Union Telegraph Company, New York, N. Y. Combined keyboard transmitter and perforated tape transmitter. 1,941,916; Jan. 2.
Royall, John H., Birmingham, Ala., assignor to A. P. Green Fire Brick Company, Mexico, Mo. Anchor for refractory furnace linings. 1,941,492; Jan. 2.
Rozier, Henri H., assignor to Manufacture de Chaussures de Moulins Societe Anonyme, Moulins-sur-Allier, France. Machine for cutting or unrolling thongs of leather or other material. 1,942,365; Jan. 2.
Ruben, Samuel, New Rochelle, N. Y. Light sensitive device. 1,941,494; Jan. 2.
Ruben, Samuel, New York, N. Y., assignor to Ruben Tube Company, Englewood, N. J. Light sensitive circuit. 1,941,493; Jan. 2.
Ruben Tube Company. (See Ruben, Samuel, assignor.)
Rudder, John W., assignor of one half to Alexander F. Whiting, Montgomery, Ala. Steam boiler. 1,942,257; Jan. 2.
Ruffino, Peter, Brooklyn, N. Y. Fuel vapor and air mixer. 1,942,187; Jan. 2.
Rundle, George H., Palmyra, Wis. Knock-down leg for furniture. 1,942,003; Jan. 2.
Runge, Wilhelm, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Means to indicate resonance in a crystal resonator. 1,941,581; Jan. 2.
Russell, Andrew N. (See Welsford, H. G., and Russell.)
Russell, Frederick C., Altrincham, and J. H. Bradbury, Ashton-on-Mersey, England. Internal-combustion engine. 1,942,127; Jan. 2.
Russell, Harlow M., Chelsea, Mass. Cushioned egg box. 1,941,719; Jan. 2.
Russell, John H., Kimball, Nebr. Potato cutting machine. 1,941,720; Jan. 2.
Russell, Mark N., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Pull socket. 1,941,721; Jan. 2.
Rutledge, Robert W., et al. (See Price, Albert O., assignor.)
Rutter, Argyle R., Chatham, and W. G. Mylius, Summit, N. J., assignors to Westinghouse Electric and Manufacturing Company. Test block for meters. 1,942,258; Jan. 2.
Ryan Car Company. (See Faverty, Clyde B., assignor.)
Ryan, Clement D., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Combined wringer and casing for washing machines. Des. 91,283; Jan. 2.
St. John, Mary W., Mount Vernon, assignor to R. I. Barnett, Lynbrook, Long Island, N. Y. Sanitary and antiseptic sputum cup. 1,941,635; Jan. 2.
St. Mungo Manufacturing Company of America. (See Jenness, Leslie G., assignor.)
Sakurai, Matavasu. (See Setoguchi, K., and Sakurai.)
Salchow, Willy, Berlin-Tempelhof, Germany. Photographic apparatus. 1,941,624; Jan. 2.
Salchow, Willy, Berlin-Tempelhof, Germany. Dark slide. 1,941,625; Jan. 2.
Sander, Wilhelm, assignor to Firm Th. Goldschmidt A.-G., Essen-Ruhr, Germany. Improving aluminogenetic iron. 1,942,004; Jan. 2.
Sands, John W. (See French, H. J., and Sands.)
Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company. Brake mechanism. Re19,040; Jan. 2.
Sauer, Oskar, Philadelphia, Pa. Weaving. 1,942,152; Jan. 2.
Schade, Carlisle. (See Tressler, D. K., and Schade.)
Scheller, Emil, Lorsbach, assignor to Deutsche Gold- und Silber-Scheide Anstalt Vormals Roessler, Frankfort-on-the-Main, Germany. Manufacture of cellulose solutions. 1,942,346; Jan. 2.
Schiechel, Maximilian, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Decolorizing heavy spar. 1,941,626; Jan. 2.
Schiemer, George, Parma, Idaho. Combination lock bolt. 1,942,259; Jan. 2.
Schilling, Heinrich. (See Baumann, P., Tanneberger, and Schilling.)
Schleh, Albert C., St. Paul, Minn. Economizer. 1,941,496; Jan. 2.
Schmidt, Alfred. (See Carley, A., Schmidt, and Wunsch.)
Schmidt, Ernest H., Cleveland Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Stabilizer for car trucks. 1,942,188; Jan. 2.
Schmidt, Oscar, International Corporation. (See Large, John H., assignor.)
Schmitz, Herrmann, Cologn-Dellbruck, Germany, assignor, by meane assignments, to American Cable Company, Inc., Bridgeport, Conn. Mechanism for manufacturing tensionless low-twist wire ropes. 1,942,218; Jan. 2.
Schnell, William, and E. S. Carlson, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Automobile radiator ornament or similar article. Des. 91,300; Jan. 2.
Schnellpressenfabrik Koening & Bauer, Aktiengesellschaft. (See Fritz, Hanns, assignor.)
Schoultheis, William, Southgate, Ky., assignor to The Scripps-Howard Supply Company, Cincinnati, Ohio. Sleeve for printing press paper rolls. 1,941,495; Jan. 2.
Schramm, Fred C., Flushing, N. Y. Carburetor. 1,942,005; Jan. 2.
Schramm, Fred W., East Orange, N. J., assignor to American Telehone and Telegraph Company. Remote control system. 1,941,627; Jan. 2.
Schroeder, William, assignor to Mercury Manufacturing Company, Chicago, Ill. Hoist attachment for trucks. 1,941,582; Jan. 2.
Schultz, Peter A., Arnhem, Netherlands, assignor to American Glanzstoff Corporation, New York, N. Y. Determining the evenness of textile threads. 1,941,917; Jan. 2.
Schulz, Arthur P. (See Teller, J., and Schulz.)
Schwakopf, Emil F., Brooklyn, N. Y., assignor to The Hall Manufacturing Company, Toledo, Ohio. Valve grinding machine. 1,941,918; Jan. 2.
Schweitzer, William K. (See Lemmerman, P. C., and Schweitzer.)
Schweyer, Daniel H., Easton, Pa. Automatic train control. 1,941,497; Jan. 2.
Scott, Howard, Wilkinsburg, Pa. assignor to Westinghouse Electric & Manufacturing Company. Alloy. 1,942,260; Jan. 2.
Scott, Howard, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alloy. 1,942,261; Jan. 2.
Scovill Manufacturing Company. (See Janes, Edmund D., assignor.)
Scovill Manufacturing Company. (See Littlejohn, Henry G., assignor.)
Scripps-Howard Supply Company, The. (See Schoultheis, William, assignor.)
Scruggs, Loyd, St. Louis, Mo. Power operated shaving apparatus. 1,941,583; Jan. 2.
Scruggs, Thomas M., assignor to Bemis Bro. Bag Company, St. Louis, Mo. Bag. 1,941,510; Jan. 2.
Seamark, Lewis M. C., St. Just, England. Casing head equipment. 1,942,366; Jan. 2.
Seeley, Stuart W., Jackson, Mich., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrical condenser. 1,942,153; Jan. 2.
Seese, Robert S. C., Detroit, Mich. Trip coil. 1,941,511; Jan. 2.
Segal, Samuel, New York, N. Y. Window lock fastener. 1,942,219; Jan. 2.
Segal, Samuel, New York, N. Y. Cutting, filing, and scraping implement. 1,942,220; Jan. 2.
Siebt, Georg, Berlin-Schoneberg, Germany. System of electrodes for electric glow discharge tubes. 1,941,956; Jan. 2.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Selden Company, The. (See Jaeger, A. O., and Witzel, assignors.)
Selden Company, The. (See Koetz, Johannes L., assignor.)
Selden Company, The. (See West, Herbert J. assignor.)
Selden Research & Engineering Corporation, The. (See Jaeger, Alphons O., assignor.)
Semet-Solvay Engineering Corporation et al. (See Steere, Frank W., assignor.)
Setoguchi, Kazuo, and M. Sakurai, Tokyo, Japan, assignors to General Electric Company. Apparatus for cutting wire into lengths. 1,942,069; Jan. 2.
Severy, Melvin L., assignor to The Vocalsevro Company, Los Angeles, Calif. Electrical musical instrument. 1,941,870; Jan. 2.
Sexton, George N., Richmond, Va. Electrical heater. 1,941,584; Jan. 2.
Shanklin, John P., Marion, Va. Determining location in progress over a given area. 1,942,262; Jan. 2.
Sheehan, Wallace. (See Lane, George S., assignor.)
Shell Oil Company. (See Alden, Herbert O., assignor.)
Shepard, Ralph H., Bronxville, N. Y. Mechanism for controlling engine valve mechanisms. 1,942,189; Jan. 2.
Shikaly, David L., Yonkers, N. Y. Toy. 1,942,006; Jan. 2.
Shodron, John G., J. B. Olson, and C. S. Wandscheneider, assignors to James Manufacturing Company, Fort Atkinson, Wis. Window and door adjusting and holding mechanism. 1,941,762; Jan. 2.
Shoemaker, Edwin J. (See Knabusch, E. M., and Shoemaker.)
Shonnard, Harold W., Montclair, N. J. Balustrade for moving hand rails. 1,941,498; Jan. 2.
Short, Donald W., Palisades Park, assignor to Jenkins Television Corporation, Jersey City, N. J. Scanning method and apparatus. 1,941,628; Jan. 2.
Sibley, Eugene, Chevy Chase, Md. Radio beacon system. 1,941,585; Jan. 2.
Siemens & Halske, Aktiengesellschaft. (See Machenheimer, Adolf, assignor.)
Siems, Herman B., assignor to Swift & Company, Chicago Ill. Continuous automatically controlled absorption system. 1,941,499; Jan. 2.
Simmen, Oscar, Erlach, assignor to the firm Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Internal combustion engine. Electric installation for vehicles. 1,941,500; Jan. 2.
Simmons Company. (See Gall, John F., assignor.)
Simms Motor Units Limited. (See Lock, Archibald C., assignor.)
Simplex Engineering Company. (See Amsler, Walter O., assignor.)
Six-Way Corporation. (See Barcalo, Edward J., assignor.)

Slack, Charles M., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Soft X-ray tube. 1,942,007; Jan. 2.
Sleeman, Richard, New York, N. Y. Mouthpiece for tobacco smoking devices. 1,941,512; Jan. 2.
Small, Spencer W., Missoula, Mont. Attachment for routing machines. 1,941,629; Jan. 2.
Smelker, Le Roy, assignor to The Dayton Accessories Manufacturing Company, Dayton, Ohio. Vehicle seat. 1,942,070; Jan. 2.
Smidth, F. L., & Co. (See Fasting, Johan S., assignor.)
Smith, A. O., Corporation. (See Bell, Raymond T., assignor.)
Smith, A. O., Corporation. (See Etherington, Harold, assignor.)
Smith, A. O., Corporation. (See Gudmundsen, Austin, assignor.)
Smith, A. O., Corporation. (See Janson, Axel, assignor.)
Smith, Charles J., Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Purifying hydrocarbon oil from hydrogen sulphide. 1,942,071; Jan. 2.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,942,008; Jan. 2.
Smith, Ramsey, Oakridge, Roatan, Honduras. Game apparatus. 1,941,630; Jan. 2.
Smullin, Thirsa G., Honcut, Calif. Serving tray. 1,942,190; Jan. 2.
Snadecki, William J., Westover, Va. Speed boat. 1,941,586; Jan. 2.
Sneed, John, Grosse Pointe, Mich. Steering mechanism. 1,942,263; Jan. 2.
Snyder, Howard O., Lima, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Animated track diagram for railway systems. 1,942,154; Jan. 2.
Société Anonyme de Conservation Industrielle du Poisson. (See Reeh, Joannes E. W., assignor.)
Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Arrault, Jules, assignor.)
Societe Anonyme Le Carbone. (See Portail, Fernand C. F., assignor.)
Société d'Etude de Distributeurs Automatiques S. E. D. A. (See Tribout, Lucien, assignor.)
Societe pour l'Exploitation des Brevets Gadoux. (See MacPherson, Earle S., assignor.)
Socoloff, Ell, and J. J. Kaufman, Atlanta, Ga. Collapsible tube. 1,941,631; Jan. 2.
Sollar, Max, assignor to B. Jacobs, Brooklyn, N. Y. Circuit maker and breaker. 1,942,309; Jan. 2.
Sommer, Ernst, Aue, Germany. Work supporting and guarding means. 1,942,128; Jan. 2.
Spaide Shirt Company. (See McGowan, Thomas H., assignor.)
Spalding, A. G., & Bros. (See Reach, Milton B., assignor.)
Spencer, John A., Newton, assignor to The Spencer Thermostat Company, Cambridge, Mass. Valve. 1,942,009; Jan. 2.
Spencer Thermostat Company, The. (See Spencer, John A., assignor.)
Sperr, Frederick W., jr., Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Gas purification. 1,942,072; Jan. 2.
Spraco, Inc. (See Thompson, Wayne B., assignor.)
Springfield Wire & Tinsel Co. (See Bradford, Edward S., jr., assignor.)
Squires, John, Hagerstown, Md. Making propeller blades. 1,942,221; Jan. 2.
Squires, John, Hagerstown, Md. Making propeller blades. 1,942,222; Jan. 2.
Squires, John, Hagerstown, Md. Making propeller blades. 1,942,223; Jan. 2.
Stahl, Morris, Brooklyn, N. Y. Lid connection. 1,942,310; Jan. 2.
Standard Oil Company. (See Plummer, William B., assignor.)
Stanliand, Eric F., Olton, England. Bottle and like vessel. 1,941,632; Jan. 2.
Stanley Works, The. (See Volz, Frederick A., assignor.)
Star Drilling Machine Company, The. (See Heinish, G., and Krupp, assignors.)
Stark Tool Company. (See Potter, Frederick T., assignor.)
Statton Furniture Manufacture Company, The. (See McClure, Frances M., assignor.)
Stavely, Roland, E. M. and P. A. Robinson, Sydney, New South Wales, Australia; said E. M. and P. A. Robinson assignors to said Stavely. Apparatus for simulated card games. 1,942,376; Jan. 2.
Steatite and Porcelain Products Limited. (See Halton, Geoffrey H., assignor.)
Stecher, Henry D. (See Bosworth, F. M., and Stecher.)
Steere, Frank W., Scarsdale, assignor of one-half to Semet-Solvay Engineering Corporation, and one-half to Air Reduction Company, Inc., New York, N. Y. Heat treatment of liquids. 1,942,191; Jan. 2.
Stegmann, Karl, Bautzen, assignor to Johne-Werk Grafische Maschinen-Aktiengesellschaft, Bautzen, Germany. Knife carrier for paper-cutting machines. 1,941,957; Jan. 2.
Steinberg, Samuel, New York, N. Y. Marking paper. 1,941,633; Jan. 2.
Steiner, Leo, Budapest, Hungary. Grinding and polishing machine for cutting tools. 1,941,501; Jan. 2.
Steiner Sales Company. (See Card, Anice, assignor.)
Steinthal, Augustus, New York, N. Y. Loose-leaf book. 1,941,634; Jan. 2.
Stelkens, Willy, Cologne, and R. Müller, Mannheim, assignors to C. F. Boehringer & Soehne G. m. b. H., Mannheim-Waldhof, Germany. Agglutinant. 1,941,958; Jan. 2.
Stenhouse, Thomas. (See Bowman, S. B., and Stenhouse.)
Sternad, Andrew F., assignor to Gardiner Metal Co., Chicago, Ill. Machine for coiling solder. 1,942,264; Jan. 2.
Steutermann, Francis J., Webster, Mass. Apparatus for cleaning boiler tubes. 1,941,513; Jan. 2.
Stevens, Harry P., Ossining, N. Y., assignor to Stevens Motors, Inc. Packing ring and valve for internal-combustion engines and the like. 1,942,155; Jan. 2.
Stevens Motors, Inc. (See Stevens, Harry P., assignor.)
Stockil, Raymond O., Takoma Park, Md. Hobby horse. 1,941,722; Jan. 2.
Stockwell, Roy A., Hartford, Mich. Train order hoop. 1,942,010; Jan. 2.
Stoesser, Wesley C., Midland, Mich., and R. F. Marschner, State College, Pa., assignors to The Dow Chemical Company, Midland, Mich. Producing diphenyl monosulphonic acid. 1,942,386; Jan. 2.
Stone, Abraham, Brooklyn, N. Y. Storage bag. 1,942,224; Jan. 2.
Stone, Enoch G., Piedmont, Okla. Cotton harvester. 1,942,192; Jan. 2.
Stone, John S., San Diego, Calif., assignor to American Telephone and Telegraph Company. Radioantenna. 1,941,636; Jan. 2.
Stone, R. Harry, Irvington, and E. F. Tilley, Dunellen, N. J., assignor to Titeflex Metal Hose Co. Indirect heat exchanger. 1,941,587; Jan. 2.
Stotz, John K. (See Kerr, C., jr., and Stotz.)
Strahlendorf, John B. (See Cornwell, T. J., and Strahlendorf.)
Streng, Jan, New York, N. Y., assignor to Colonia Radio Corporation, Buffalo, N. Y. Combined bookcase and cabinet for radioreceiver. Des. 91,284; Jan. 2.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Worthington, Everett, assignor.)
Stroud, Voet E., Bellflower, Calif. Straight hole drilling device. 1,941,723; Jan. 2.
Struve, Oscar I., Buffalo, N. Y. Container. 1,941,871; Jan. 2.
Stuart, Alexander T., Toronto, Ontario, Canada. Electrolytic method and cell for the decomposition of water. 1,941,816; Jan. 2.
Stuebing, Albert F., Scarsdale, N. Y. Friction draft gears. 1,942,377; Jan. 2.
Sulzer Freres Societe Anonyme. (See Simmen, Oscar, assignor.)
Sumner, Joanna-May, Dayton, Ohio. Slip and making same. 1,941,959; Jan. 2.
Superheater Company, The. (See Huet, André, assignor.)
Superheater Company, The. (See Magis, A., and Huet, assignors.)
Superior Steel Door and Trim Co. Inc. (See Connell, A. J., and Cohen, assignors.)
Sutherland, Louis W., assignor to Sutherland Paper Company, Kalamazoo, Mich. Box. 1,941,514; Jan. 2.
Sutherland Paper Company. (See McAleer, Charles F., assignor.)
Sutherland Paper Company. (See Sutherland, Louis W., assignor.)
Swalley, William C., assignor to The Wellman Engineering Company, Cleveland, Ohio. Grab bucket. 1,941,515; Jan. 2.
Swanson, Ernest R., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Winding machine. 1,941,724; Jan. 2.
Swayzee, Jesse E., Columbia, La. Gasoline line lock for automobiles. 1,942,129; Jan. 2.
Sweeney, Orland R., Ames, and C. E. Hartford, Dubuque, Iowa. Process relating to the production of a material from vegetable matter of high pentosan containing pento-cellulose materials. 1,941,817; Jan. 2.
Sweet, George H., Green Bay, Wis. Left foot feed. 1,941,516; Jan. 2.
Swennes, Benjamin A., Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill. Torque stabilizer spring. 1,941,763; Jan. 2.
Swenson, Carl E., assignor to Mechanics Universal Joint Company, Rockford, Ill. Universal joint. 1,941,764; Jan. 2.
Swift, Charles W. (See Viele, J. H., and Swift.)
Swift & Company. (See Siems, Herman B., assignor.)
Sylvan, Stig G., Bradford, Pa., assignor to American Air Filter Company, Inc., Louisville, Ky. Separator. 1,941,449; Jan. 2.
Sylvan, Stig G:son, assignor to American Air Filter Company, Inc., Louisville, Ky. Air filter. 1,941,450; Jan. 2.
Székely, Nicholas. (See Szilas, O., and Székely.)
Szilas, Oscar, and N. Székely, Budapest, Hungary. Electric energy indicating instrument. 1,942,193; Jan. 2.
Tharud, Clarence, Sioux Falls, S. Dak. Inner tube drier. 1,942,311; Jan. 2.
Taggart, Archie D., Cement City, assignor of one-third to B. N. Beaman and one-third to J. H. Erickson, Jackson, Mich. Windshield warmer. 1,941,765; Jan. 2.
Tanneberger, Helmut. (See Baumann, P., Tanneberger, and Schilling.)
Tatro, Lysle G., assignor to H. B. Montgomery, Decorah, Iowa. Radioreceiver. 1,942,378; Jan. 2.

Taylor, Daniel G. (See Denison, F. S., and Taylor.)
Taylor, Daniel G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostatic switch. 1,941,502; Jan. 2.
Teichmann, Henry F., Washington, Pa. Rotary socket for electric lamps. 1,942,073; Jan. 2.
Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See Heegner, Kurt, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches. (See Jobst, Günther, assignor.)
Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See Runge, Wilhelm, assignor.)
Teller, Jacob, and A. P. Schulz, New York, N. Y., assignors, by mesne assignments, to Teller Stove Designing Corporation. Straight-line cooking top range or stove. 1,942,265; Jan. 2.
Teller Stove Designing Corporation (See Teller, J., and Schulz, assignors.)
Ternstedt Manufacturing Company. (See Schnell, W., and Carlson, assignors.)
Thatcher, Harry W., assignor to Draper Corporation, Hopedale, Mass. Electric feeler for looms. 1,941,960; Jan. 2.
Thom, George L., assignor to Chicago Pump Company, Chicago, Ill. Pneumatic water system. 1,941,766; Jan. 2.
Thomas, Edward G., assignor to Toledo Scale Manufacturing Company, Toledo, Ohio. Testing device. 1,941,818; Jan. 2.
Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Traffic control system. 1,942,266; Jan. 2.
Thompson, James S., New Rochelle, assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y. Grate. 1,941,919; Jan. 2.
Thompson, Wayne B., Winchester, assignor to Spraco, Inc., Somerville, Mass. Fluid current conveyer. 1,942,379; Jan. 2.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,942,225; Jan. 2.
Tichenor, Carl M., Muskegon, and B. C. Booth, Muskegon Heights, Mich.; said Booth assignor to said Tichenor. Automobile radio set. 1,941,961; Jan. 2.
Tile-Tex Company, The. (See Heppes, George P., assignor.)
Tilley, Edwin F. (See Stone, R. H., and Tilley.)
Timian, Harold H., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 1,942,226; Jan. 2.
Timian, Harold H., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 1,942,227; Jan. 2.
Timken Roller Bearing Company, The. (See Boden, Ernest G., assignor.)
Tincu, Vasile V., Detroit, Mich. Trellis. 1,941,517; Jan. 2.
Titeflex Metal Hose Co. (See Stone, R. H., and Tilley, assignors.)
Toledo Machine & Tool Company, The. (See Dorman, N. W., and Eisenbach, assignors.)
Toledo Scale Manufacturing Company. (See Hem, Halvor W., assignor.)
Toledo Scale Manufacturing Company. (See Myers, D. D., and Hurt, assignors.)
Toledo Scale Manufacturing Company. (See Thomas, Edward G., assignor.)
Tompkins, Reuben R. (See Gregory, S., and Tompkins.)
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Manufacture of open space coated abrasive paper by the use of paraffin and other hydrophobic materials. 1,941,962; Jan. 2.
Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Time switch. 1,942,074; Jan. 2.
Towson, Morris S., Shaker Heights, assignor to The Elwell Parker Electric Company, Cleveland, Ohio. Industrial truck. 1,941,767; Jan. 2.
Tratsch, Walter A., Chicago, Ill. Coin chute. 1,941,637; Jan. 2.
Tratsch, Walter A., Chicago, Ill. Coin slide. 1,941,638; Jan. 2.
Tressler, Donald K., Gloucester, Mass., assignor to The Mathieson Alkali Works, Incorporated, New York, N. Y. Preparing aliphatic ketones. 1,941,640; Jan. 2.
Tressler, Donald K., and C. Schade, Pittsburgh, Pa., assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Wax-like substances and preparing the same. 1,941,639; Jan. 2.
Tribout, Lucien, assignor to Société d'Etude de Distributeurs Automatiques S. E. D. A., Paris, France. Liquid dispensing apparatus. 1,942,847; Jan. 2
Trico Products Corporation. (See Horton, E. C., and Hueber, assignors.)
Tropic-Aire Incorporated. (See Butterfield, Vernon J., assignor.)
Trucotte, Antoine, Mexico, Maine. Closure fastener. 1,941,641; Jan. 2.
Tudor-Hart, Owen. (See Tudor, I., and Tudor-Hart.)
Tudor, Ivan, and Owen Tudor-Hart, Bagshot, England. Treatment of fibrous materials. 1,941,451; Jan. 2.
Tutoky, Stephen M., Newark, N. J. Shoe heel. 1,942,312; Jan. 2.
Twichell, Beatrice C., Miami, Fla. Art picture. 1,941,518; Jan. 2.
Tycer, Warren I., Columbus, Ohio. Cooking vessel or similar article. Des. 91,285; Jan. 2.

Tyler, Harland, Dayton, Wash. Wind signal. 1,942,039; Jan. 2.
Typograph G. m. b. H. (See Dorneth, Julius, assignor.)
Tyzzer, Howard J., Melrose, assignor to Electro Formation, Inc., Medford, Mass. Electrolytic condenser. 1,941,725; Jan. 2.
Una Welding & Bonding Company. (See Rood, Arnold C., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
United Chromium, Incorporated. (See Fink, C. G., and Eldridge, assignors.)
United Metal Goods Manufacturing Co. Inc. (See Levy, Abraham, assignor.)
United Shoe Machinery Corporation. (See Keall, Frank B., assignor.)
United Shoe Machinery Corporation. (See Keall, F. B., and Elliott, assignors.)
United States Envelope Company. (See Anderson, George A., assignor.)
United States Metallic Packing Company, The. (See Light, E. A., and Price, jr., assignors.)
U. S. Slicing Machine Company. (See van Berkel, Wilhelmus A., assignor.)
United Verde Copper Company. (See Kusell, Charles R., assignor.)
United Verde Copper Company. (See Rosenstein, Ludwig, assignor.)
Universal Winding Company. (See Swanson, Ernest R., assignor.)
Urschel, William E., Valparaiso, Ind. Mechanical movement. 1,942,011; Jan. 2.
Vail, Henry H., Camden, assignor to Automatic Drive and Transmission Company, Gloucester City, N. J. Automatic clutch mechanism. 1,941,588; Jan. 2.
Valentine, Warren P., Line Lexington, assignor to National Transit Pump & Machine Company, Oil City, Pa. Hand pump for greases, etc. 1,942,387; Jan. 2.
Van Berkel, Wilhelmus A., Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind. Driving means for slicing machine knives. 1,941,519; Jan. 2.
Van Raalte Company. (See Griffis, Lawrence W., assignor.)
Vawter, John T., Los Angeles, Calif. Cement gun nozzle. 1,941,726; Jan. 2.
Vicarey, Robert W. (See Appel, G. C., Vicarey, and Wanvig, jr.)
Vickers-Armstrongs Limited. (See Nasmith, John I., assignor.)
Viele, John H., and C. W. Swift, Elmira, N. Y. Pressure relieving check valve for flow lines. 1,942,318; Jan. 2.
Vigne, Albert, assignor to National Bearing Metals Corporation, St. Louis, Mo. Bearing. 1,941,768; Jan. 2.
Villiers, William A., Knightsbridge, London, assignor to The General Electric Company Limited, London, England. Lighting device. 1,941,503; Jan. 2.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Fuel feeding system. 1,941,642; Jan. 2.
Vocalsevro Company, The. (See Severy, Melvin L., assignor.)
Voigtlander & Sohn Aktiengesellschaft. (See Baránvi, Árpád, assignor.)
Voltz Brothers, Inc. (See Voltz, Daniel W., assignor.)
Voltz, Daniel W., assignor to Voltz Brothers, Inc., Chicago, Ill. Body construction. 1,942,314; Jan. 2.
Voltz, Daniel W., assignor to Voltz Brothers, Inc., Chicago, Ill. Body construction. 1,942,315; Jan. 2.
Volz, Frederick A., assignor to The Stanley Works, New Britain, Conn. Stream line wire wrench. 1,942,316; Jan. 2.
Von Kleist, Felix B., Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company. Metal vapor rectifier for heavy currents. 1,942,317; Jan. 2.
Von Platen, Baltzar C., Stockholm, Sweden. Direct current transformer system. 1,941,643; Jan. 2.
Von Platen, Baltzar C., Stockholm, Sweden. Transformer. 1,941,644; Jan. 2.
Von Poelgeest, William. (See Pickel, F., and von Poelgeest.)
Wacker, Dr. Alexander, Gesellschaft für Elektro-Chemische Industrie, G. m. b. H. (See Müller, Melmuth, assignor.)
Wadl, John R., Huntingdon, Pa. Holding articles. 1,942,228; Jan. 2.
Walker, Herbert W. (See Lubs, H. A., and Walker.)
Walker, Walter H., New York, N. Y., assignor to Ottawa River Paper Company, Toledo, Ohio. Basket. 1,941,819; Jan. 2.
Wallgren, August G. F., assignor to Aktiebolaget, Nomy, Stockholm, Sweden. Bearing. 1,942,194; Jan. 2.
Walsh, Ralph W., Los Angeles, Calif. Charting device. 1,942,075; Jan. 2.
Walter, Maurice, assignor to Walter Motor Truck Company, New York, N. Y. Differential gearing for motor vehicles. 1,941,645; Jan. 2.
Walter Motor Truck Company. (See Walter, Maurice, assignor.)
Wandschneider, Carl S. (See Shodron, J. G., Olson, and Wandschneider.)
Wanvig, John D., jr. (See Appel, G. C., Vicarey, and Wanvig, jr.)
Wappler Electric Company. (See Fayer, Charles, assignor.)

Wappler Electric Company. (See Larsen, Carl J., assignor.)
Ward, Bruce R., Presque Isle, Maine. Log for cabins and the like. 1,942,348; Jan. 2.
Ward, Gilbert J., assignor to Cheesman-Elliot Co. Inc., Brooklyn, N. Y. Impregnated fibrous block. 1,941,769; Jan. 2.
Ware, Walter C., and C. J. Robertson, assignors to Evans Stamping and Plating Company, Taunton, Mass. Reversing mechanism. 1,942,318; Jan. 2.
Wark, Nikolaus. (See Eichenberg, G., and Wark.)
Warren, Admiral J., Washington, D. C., assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Razor sharpening device. 1,942,229; Jan. 2.
Warren, Henry E., assignor to Warren Telechron Company, Ashland, Mass. Self-starting synchronous motor. 1,942,076; Jan. 2.
Warren, Henry E., assignor to Warren Telechron Company, Ashland, Mass. Lubricated bearing. 1,942,077; Jan. 2.
Warren, John S. (See Beck, A. R., and Warren.)
Warren, Reginald G., Liverpool, England. Device for sorting articles or packages into groups of various weights. 1,942,267; Jan. 2.
Warren Telechron Company. (See Warren, Henry E., assignor.)
Washburn Company, The. (See Wheeler, Levi E., assignor.)
Washburn, John M., West Hartford, assignor to The Merrow Machine Company, Hartford, Conn. Sewing machine. 1,941,452; Jan. 2.
Waugh Equipment Company. (See Clark, Leverett M., assignor.)
Waugh Equipment Company. (See Thompson, James S., assignor.)
Weatherhead Company, The. (See Bosworth, F. M., and Stecher, assignors.)
Webb, Ira G., Binghamton, N. Y. Globe holder. 1,942,156; Jan. 2.
Webb, William G. (See Mills, O. J., and Webb.)
Webber, Joseph T., assignor to International Radio Corporation, Ann Arbor, Mich. Dial for multirange radio-receivers. 1,942,012; Jan. 2.
Weber, Louis, East Chicago, Ind. Insulating product. 1,942,013; Jan. 2.
Wehrenberg, George E., assignor to Regalite, Inc., Chicago, Ill. Liquid refreshment server. Des. 91,286; Jan. 2.
Weller, Frank, and W. A. Ferguson, San Francisco, Calif. Blackboard. Des. 91,287; Jan. 2.
Weiss, John M., assignor, by mesne assignments, to The Barrett Company, New York, N. Y. Distillation of tar. 1,942,195; Jan. 2.
Wellman Engineering Company, The. (See Swalley, William C., assignor.)
Wellman, Howard C., assignor to Eastman Kodak Company, Rochester, N. Y. Safety screen for motion-picture apparatus. 1,942,230; Jan. 2.
Wellons, Charles M., Bellevue, Pa. Fastening for gratings. 1,941,589; Jan. 2.
Welsford, Hubert G., and A. N. Russell, Montreal, Quebec, Canada. Crusher. 1,941,770; Jan. 2.
Wening, Frederick. (See Glatthar, G. E., and Wening.)
West, Herbert J., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Production of dibenzanthrone. 1,941,771; Jan. 2.
Westendorp, Willem F., Schenectady, N. Y., assignor to General Electric Company. Electric illuminating apparatus. 1,942,078; Jan. 2.
Western Bakeries Corporation. (See Costello, Thomas C., assignor.)
Western Railway Equipment Company. (See Pilcher, John A., assignor.)
Western Union Telegraph Company, The. (See Long, J. W., and Collings, assignors.)
Western Union Telegraph Company, The. (See Rothermel, Samuel W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baumann, Karl, assignor.)
Westinghouse Electric & Manufacturing Company. (See Beers, George L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bouton, E. M., and Lewis, assignors.)
Westinghouse Electric & Manufacturing Company. (See Duhme, Emil, assignor.)
Westinghouse Electric & Manufacturing Company. (See Hameyer, P., Meyer, and Jungmichl, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kaufmann, Werner, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kerr, C., Jr., and Stots, assignors.)
Westinghouse Electric & Manufacturing Company. (See Maina, Gerald H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mattingly, H. W., and Lewis, assignors.)
Westinghouse Electric and Manufacturing Company. (See Rutter, A. R., and Mylius, assignors.)
Westinghouse Electric & Manufacturing Company. (See Scott, Howard, assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
Westinghouse Electric & Manufacturing Company. (See von Kleist, Felix B., assignor.)
Westinghouse Lamp Company. (See Callahan, George F., assignor.)
Westinghouse Lamp Company. (See Ehrke, Louis F., assignor.)
Westinghouse Lamp Company. (See Gustin, D. S., and Dietz, assignors.)
Westinghouse Lamp Company. (See Lindstrom, Albert F., assignor.)
Westinghouse Lamp Company. (See Makenny, William, assignor.)
Westinghouse Lamp Company. (See Romanelli, Emilio, assignor.)
Westinghouse Lamp Company. (See Slack, Charles M., assignor.)
Wheeler, Levi E., assignor to The Washburn Company, Worcester, Mass. Handle. Des. 91,288; Jan. 2.
White, Blanche B. (See Moss, W. H., and White.)
White, Charles H., assignor to Deere & Company, Moline, Ill. Harrow. 1,941,504; Jan. 2.
White, S. S., Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)
Whitehead, William A. (See Quick, C. G., and Whitehead.)
Whiting, Alexander F. (See Rudder, John W., assignor.)
Whittaker, Frederick A., assignor to Marathon Company, Attleboro, Mass. Combined cigarette container and pyrophoric lighter. Des. 91,289; Jan. 2.
Whittington, Ralph S., Oak Park, Ill., assignor to The Farval Corporation, Cleveland, Ohio. Automatic pump. 1,941,453; Jan. 2.
Wickson, Harmon, Rochester, assignor to General Railway Signal Company, Rochester, N. Y. Testing apparatus for train control devices. 1,942,157; Jan. 2.
Wiegand, Paul C., Brooklyn, N. Y. Self-sealing tube. 1,941,520; Jan. 2.
Wikander, Oscar R., assignor to Edgewater Steel Company, Pittsburgh, Pa. Friction spring device. 1,941,521; Jan. 2.
Wilcox, Vance S., assignor of one-half to L. D. Moore, Los Angeles, Calif. Self-sealing dispenser for toothpaste and like commodities. 1,941,727; Jan. 2.
Wilde, Kurt, Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to Builders Iron Foundry, Providence, R. I. Remote control indicator system. Re19,039; Jan. 2.
Wiley, Samuel, Metuchen, N. J. Projectile. 1,941,590; Jan. 2.
Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drilling mechanism. 1,942,014; Jan. 2.
Wilhjelm, Christian, Philadelphia, Pa., assignor to G. H. Johanson, trustee. Motor-operated relay. 1,941,920; Jan. 2.
Wilhjelm, Christian, Philadelphia, Pa., assignor to G. H. Johanson, trustee. Motor operated relay. 1,941,921; Jan. 2.
Wilkenson, Emil, Stoughton, Wis. Tobacco stringing lath holder. 1,941,728; Jan. 2.
Wilkoff, Arthur E., Niles, Ohio, assignor to Youngstown Steel Car Corporation. Hydraulic pedal depressor. 1,942,368; Jan. 2.
Willard, Waldo W., Schenectady, N. Y., assignor to General Electric Company. System of and apparatus for gunfire control. 1,942,079; Jan. 2.
Willhelm, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,301; Jan. 2.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,302; Jan. 2.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,303; Jan. 2.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,304; Jan. 2.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,305; Jan. 2.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,306; Jan. 2.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,307; Jan. 2.
Williams, Lynn A., et al. (See Bracke, Robert F., assignor.)
Williams, Reginald V., Buffalo, N. Y. Soldering jig. 1,941,772; Jan. 2.
Willis, Charles C. (See Dickhaut, C. A., and Willis.)
Wilson, William S., assignor to Merrimac Chemical Company, Inc., Boston, Mass. Treating clay for transportation and handling. 1,942,196; Jan. 2.
Winchell, Arthur B., Jackson, Mich., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Clutch-operating mechanism. 1,942,158; Jan. 2.
Winkler, Herman J. (See Barnes, W. J., and Winkler.)
Winters, Wilbur H., Larchmont, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake shoe. 1,941,646; Jan. 2.
Wipperman, Hildegard, assignor, by mesne assignments, to The H. W. Gossard Company, Chicago, Ill. Combination garment. 1,941,505; Jan. 2.
Wise Patent and Development Company. (See Wise, Roy T., assignor.)
Wise, Roy T., Berkeley, Calif., assignor to Wise Patent and Development Company, New York, N. Y. Clutch. 1,941,963; Jan. 2.
Wisner, Charles E. (See Arnold, Philip S., assignor.)
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Motion picture film spooling system. 1,941,522; Jan. 2.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Film reel and support therefor. 1,941,523; Jan. 2.

Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Automatic reversing mechanism for motion-picture apparatus. 1,942,231; Jan. 2.
Wittemeier, Hans, Berlin-Grunewald, W. Neumann, Berlin-Charlottenburg, Germany; said Wittemeier assignor to Midwest Manufacturing Company, Inc., Louisville, Ky. Air filter apparatus. 1,941,524; Jan. 2.
Witter, Wilhelm, Halle, assignor to Firma M. Lissauer & Cie, Cologne-on-the-Rhine, Germany. Recovering nonferrous metals from melts containing metal oxides. 1,941,506; Jan. 2.
Witzel, Heinrich W. (See Jaeger, A. Q., and Witzel.)
Wolfes, Otto, Darmstadt, Germany. Process for the manufacture of ether-derivatives of 1-benzyl-3-methyl-isoquinoline. 1,941,647; Jan. 2.
Wolff, Franz, Berlin-Nikolassee, Germany. Dashpot for time lag relay. 1,942,040; Jan. 2.
Wolters, Carl F., Marietta, Ohio, assignor to Remington Rand Inc., Buffalo, N. Y. Desk. 1,942,387; Jan. 2.
Wolvin, Roy M. (See Robinson, Joseph, assignor.)
Wömpner, Fritz, Geroldsgrun, Oberfranken, Germany. Slide rule. 1,942,349; Jan. 2.
Wood, Robert T., Cleveland, Ohio, assignor, by mesne assignments, to Magnesium Development Corporation. Alloy. 1,924,041; Jan. 2.
Woodcock, Byron E., Scranton, Ohio. Automobile map mileage indicator. 1,942,130; Jan. 2.
Worrall, John H., assignor to Liberty Lace and Netting Works, New York, N. Y. Lace. Des. 91,308; Jan. 2.
Worrall, Roy R., Webster Groves, assignor to Alvey Conveyor Manufacturing Company, St. Louis, Mo. Conveyer. 1,941,525; Jan. 2.
Worth, Leo F., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Drawer lining or the like. 1,941,922; Jan. 2.
Worthington, Everett, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radiocabinet or the like. Des. 91,290; Jan. 2.
Wright, Thomas E., Jersey City, N. J. Dump body. 1,942,319; Jan. 2.
Wright, William H., Columbus, Ohio. Electric battery connection. 1,941,773; Jan. 2.
Wunsch, Karl. (See Carley, A., Schmidt, and Wunsch.)
Wydler, Ernst, Leimbach, Switzerland. Obtaining metals from silliceous rocks. 1,942,015; Jan. 2.
Yale & Towne Manufacturing Company, The. (See Lowe, Charles B., assignor.)
Yale & Towne Manufacturing Company, The. (See Richter, P. C., and Potter, assignors.)
Yoder Company, The. (See Cleveland, Grover E., assignor.)
Yost, Winfield H., Montreal, Quebec, Canada. Dump car. 1,941,774; Jan. 2.
Young, Andrew H., Schenectady, N. Y., assignor to General Electric Company. Heater for indirectly heated cathodes. 1,942,080; Jan. 2.
Young, Vertrees, assignor to Robert Gaylord, Incorporated, St. Louis, Mo. Carton. 1,941,775; Jan. 2.
Young, William, Wishaw, Scotland. Window balancing device. 1,942,320; Jan. 2.
Youngstown Sheet and Tube Company. (See Adams, James L., jr., assignor.)
Youngstown Steel Car Corporation. (See Wilkoff, Arthur E., assignor.)
Zahm, Edward, assignor to Zahm & Nagel Co. Inc., Buffalo, N. Y. Tapping apparatus. 1,941,507; Jan. 2.
Zahm & Nagel Co. Inc. (See Zahm, Edward, assignor.)
Zapf, Georg, Cologne, assignor to Felten & Guilleaume Carlswerk Actien Gesel.schaft, Cologne-Mulheim, Germany. Carrying ropes. 1,941,964; Jan. 2.
Zapf, Georg, assignor to Felten & Guilleaume Carlswerk Actien Gesellschaft, Cologne-Mulheim, Germany. Submarine cable. 1,942,321; Jan. 2.
Zeno, Angelo, Dobbs Ferry, N. Y. Signaling device. 1,942,268; Jan. 2.
Zimber, Raymond M., Bloomfield, and L. A. Hawthorne, Newark, assignors to Deforest Radio Company, Jersey City, N. J. Device for sealing machines. 1,942,042; Jan. 2.
Zingg, Werner. (See Frohlich, H., Hausch, and Zingg.)
Zwicker, Dewey, assignor to Zwicker Knitting Mills, Appleton, Wis. Knitted mitten and making same. 1,941,508; Jan. 2.
Zwicker Knitting Mills. (See Zwicker, Dewey, assignor.)

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrasives, Applying. S. Gregory and R. R. Tompkins. 1,941,796; Jan. 2.
Absorption system, Continuous automatically controlled. H. B. Siems. 1,941,499; Jan. 2.
Accumulator plants, Operation of pumping. J. Lell. 1,941,845; Jan. 2.
Acid from acetic acid anhydride, Separating acetic. R. Müller, H. Hatzig, and E. Rabald. 1,941,951; Jan. 2.
Acid, Making benzoic. C. Conover. 1,942,389–90; Jan. 2.
Acoustic device. H. Koch. 1,941,987; Jan. 2.
Adhesive and film forming composition. P. C. Lemmerman and W. K. Schweitzer. 1,942,299; Jan. 2.
Adjusting system, Automatic. P. Hameyer, G. Meyer, and J. Jungmichl. 1,942,285; Jan. 2.
Agglutinant. W. Stelkens and R. Muller. 1,941,958; Jan. 2.
Agitator for sifters. B. J. Carey. 1,942,275; Jan. 2.
Agitator, Portable. N. K. Davis and A. E. Mason. 1,942,277; Jan. 2.
Air conditioner. L. J. Black. 1,941,734; Jan. 2.
Air conditioning device. C. E. Carey. 1,942,085; Jan. 2.
Aircraft control system. R. P. Mueller. 1,941,616; Jan. 2.
Aircraft propelling and controlling mechanism. C. S. Hall. 1,941,799; Jan. 2.
Aircraft wing structure. E. J. W. Ragsdale. 1,942,148; Jan. 2.
Air filter. S. G. Sylvan. 1,941,450; Jan. 2.
Air heater. I. E. Aske. 1,941,527; Jan. 2.
Airplane. M. Finocchiaro. 1,942,279; Jan. 2.
Airplane body. E. J. W. Ragsdale. 1,942,149; Jan. 2.
Airplane wing spar. R. G. Miller. 1,942,391; Jan. 2.
Alarm device. W. M. S. Kilgour. 1,941,694–5; Jan. 2.
Aliphatic ketones, Preparing. D. K. Tressler. 1,941,640; Jan. 2.
Alkaloids from cocoa products, Recovering. J. Bebie, J. W. Livingston, and M. Luthy. 1,942,160; Jan. 2.
Alkaloids from cocoa products, Recovering. M. Luthy. 1,942,177; Jan. 2.
Alloy. H. Scott. 1,942,260–1; Jan. 2.
Alloy. R. T. Wood. 1,942,041; Jan. 2.
Alloy, Ferrous. P. A. E. Armstrong. 1,941,648; Jan. 2.
Alloy for surgical needles. W. Rohn. 1,942,150; Jan. 2.
Alloys, Forming. J. O. Betterton. 1,941,534–5; Jan. 2.
Amplifying system. G. L. Beers. 1,942,234; Jan. 2.
Analyzer, Gas. G. R. Blodgett. 1,942,323; Jan. 2.
Anchor for refractory furnace linings. J. H. Royall. 1,941,492; Jan. 2
Anchor, Tubing. J. D. Nixon and T. S. Park. 1,941,813; Jan. 2.
Annealing and zinc coating ferrous articles. W. H. Potter. 1,942,121; Jan. 2.
Antiskid device for car wheels. A. Garcia. 1,941,857; Jan. 2.
Apparatus for and method of forming internal threads by stamping dies. K. Berger. 1,942,353; Jan. 2.
Applicator. F. Riebel, jr., and D. M. Dow. 1,941,759; Jan. 2.
Arc welding. J. T. Catlett. 1,942,047; Jan. 2.
Art composition, Pictorial. C. E. Lawrence. 1,942,339; Jan. 2.
Article of manufacture. W. R. Collings and D. L. Gibb. 1,942,354; Jan. 2.
Article separating and grading apparatus. N. H. Norris. 1,942,117; Jan. 2.
Articles, Holding. J. R. Wald. 1,942,228; Jan. 2.
Articles or packages into groups of various weights, Device for sorting. R. G. Warren. 1,942,267; Jan. 2.
Ash receiver. D. F. Larkin. 1,941,844; Jan. 2.
Attemporator for rotary kilns and the like. J. S. Fasting. 1,942,140; Jan. 2.
Audion construction. F. L. Hunter, jr. 1,941,687; Jan. 2.
Automatic fare box. O. Miller. 1,941,707; Jan. 2.
Automatic pump. R. S. Whittington. 1,941,453; Jan. 2.
Automatic vacuum regulator. J. H. Lienau and J. J. Neuman. 1,941,479; Jan. 2.
Automobile appliance. S. Milone. 1,942,115; Jan. 2.
Automobile jack. K. S. Clapp. 1,942,276; Jan. 2.
Automobile jack. M. Dwork. 1,941,854; Jan. 2.
Auxiliary distributing valve for locomotives. H. T. Doughty. 1,942,369; Jan. 2.
Baby carrier. W. A. Lewis. 1,941,902; Jan. 2.
Bag: *See*—
  Multwall bag. Water tight bag.
  Storage bag.
Bag. H. H. Allen. 1,941,509; Jan. 2.
Bag. T. M. Scruggs. 1,941,510; Jan. 2.
Bag folding machine. A. Andreas. 1,942,159; Jan. 2.
Bag for fruits and vegetables, Fabric. R. J. Cheatham. 1,942,086; Jan. 2.
Ball, Exercising. L. F. Brazeau. 1,941,877; Jan. 2.
Balustrade for moving hand rails. H. W. Shonnard. 1,941,498; Jan. 2.

Band for jewelry purposes. A. Hiller. 1,941,684; Jan. 2.
Base and conduit, Combined metallic. A. J. Connell and J. Cohen. 1,942,137; Jan. 2.
Base feed and staking machine. W. Makenny. 1,941,992; Jan. 2.
Basket. R. M. Koch. Des. 91,271; Jan. 2.
Basket. W. H. Walker. 1,941,819; Jan. 2.
Basket, Rectangular. L. M. Hile. 1,941,835; Jan. 2.
Bathroom chair, Neo-classic. L. Guild. Des. 91,268–9; Jan. 2.
Bathtub, Thermos. C. A. Gottfried. 1,941,832; Jan. 2.
Battery: *See*—
  Storage battery.
Battery, and making the same, Storage. G. C. Appel, R. W. Vicarey, and J. D. Wanvig, jr. 1,942,350; Jan. 2.
Battery connection, Electric. W. H. Wright. 1,941,773; Jan. 2.
Bearing: *See*—
  Lubricated bearing. Roller bearing.
Bearing. S. W. Crawford. 1,941,788–9; Jan. 2.
Bearing. A. Vigne. 1,941,768; Jan. 2.
Bearing. A. G. F. Wallgren. 1,942,194; Jan. 2.
Beater element for pulverizing apparatus. J. W. Armour. 1,941,923; Jan. 2.
Bell ringing mechanism. R. A. Light and J. W. Price, jr. 1,942,360; Jan. 2.
Belt, Traction. D. S. Kennedy. 1,942,337–8; Jan. 2.
Binder packer arm and pitman. J. Hohmann. 1,942,335; Jan. 2.
Blackboard. F. Weller and W. A. Ferguson. Des. 91,287; Jan. 2.
Blade strip and making the same. T. H. Frost. 1,942,025; Jan. 2.
Blind operating mechanism, Venetian. J. W. Dunn. 1,941,830; Jan. 2.
Block: *See*—
  Impregnated fibrous block.
Board: *See*—
  Game board.
Board top or covering for furniture, etc., Laminated. A. T. A. Heitz. 1,942,287; Jan. 2.
Boat, Speed. W. J. Snadecki. 1,941,586; Jan. 2.
Bobbin guide. J. C. Meehan. 1,941,950; Jan. 2.
Body construction. D. W. Voltz. 1,942,314–5; Jan. 2.
Boiler: *See*—
  Steam boiler.
Boiler. F. E. Hutton. 1,942,169; Jan. 2.
Boiler and furnace therefor, Steam. H. J. Kerr. 1,941,865; Jan. 2.
Boiler and mercury condenser, Steam. C. E. Lucke. 1,941,480; Jan. 2.
Boiler tubes, Apparatus for cleaning. F. J. Steutermann. 1,941,513; Jan. 2.
Bookcase and cabinet for radio-receiver, Combined. J. Streng. Des. 91,284; Jan. 2.
Book, Loose leaf. A. Steinthal. 1,941,634; Jan. 2.
Boom construction. E. B. Nickles. 1,941,952; Jan. 2.
Bottle. A. H. Dolge. Des. 91,295; Jan. 2.
Bottle. W. Douglas. 1,941,933; Jan. 2.
Bottle and like vessel. E. F. Staniland. 1,941,632; Jan. 2.
Bottle machine with overlapping cycles, Suction gathering. R. W. Canfield. 1,941,878; Jan. 2.
Bottles, Manufacture of paper. C. Ristow. 1,942,345; Jan. 2.
Bowl or receptacle, Measuring dispensing. W. L. Higley. 1,941,745; Jan. 2.
Box: *See*—
  Automatic fare box. Cushioned egg box.
  Bread box.
Box. C. S. Andrews. 1,941,528; Jan. 2.
Box. L. W. Sutherland. 1,941,514; Jan. 2.
Box covering method and product. F. R. Neely. 1,942,362; Jan. 2.
Brace: *See*—
  Ladder brace.
Brake: *See*—
  Disk brake. Hydraulic brake.
  Friction brake.
Brake. J. A. Albert. 1,941,965; Jan. 2.
Brake mechanism. E. B. Bell. 1,942,044; Jan. 2.
Brake mechanism. R. S. Sanford. Re19,040; Jan. 2.
Brake shoe. W. H. Winters. 1,941,646; Jan. 2.
Brake shoe and making the same. F. A. Fahrenwald. 1,941,672; Jan. 2.
Brakes to aeroplane wheels, Method and relative device for applying. A. Boggio. 1,942,235; Jan. 2.
Brassière. J. Letz. 1,942,250; Jan. 2.
Bread box. L. E. Padelford. 1,941,998; Jan. 2.
Brooder. L. G. Knapp. 1,941,842; Jan. 2.
Brush, Fountain. G. Lupo. 1,941,751; Jan. 2.
Bucket, Grab. W. C. Swalley. 1,941,515; Jan. 2.
Buckle, Dress. H. J. Lipman. Des. 91,276; Jan. 2.

Buckle, Slide. H. G. Littlejohn. 1,942,361; Jan. 2.
Building, Portable collapsible. W. Cunningham. 1,941,662; Jan. 2.
Building product and making same. T. Robinson. 1,941,491; Jan. 2.
Bulkhead and sea-wall structure. M. di Zoppola. 1,942,163; Jan. 2.
Burner: *See*—
  Liquid fuel burner.
Cabinet, Towel service. S. Kaidy. 1,942,292; Jan. 2.
Cable connecter for high-voltage lines, Wide span. K. Pfisterer. 1,941,715; Jan. 2.
Cable, Electric. T. N. Riley. 1,941,913; Jan. 2.
Cable, Submarine. G. Zapf. 1,942,321; Jan. 2.
Calculator. J. Quijano. 1,941,911; Jan. 2.
Calculating machines, Paper carriage equipment for. R. L. Muller. 1,942,216; Jan. 2.
Camera mount. W. A. Black. 1,942,161; Jan. 2.
Camera, Photographic. A. Barenyi. 1,941,784; Jan. 2.
Camera, Photographic. K. Frenzel. 1,941,602; Jan. 2.
Cap, Captive. C. B. Knudsen. 1,942,214; Jan. 2.
Car body, Touring. C. S. Ash. Des. 91,259; Jan. 2.
Car, Dump. W. H. Yost. 1,941,774; Jan. 2.
Car handling apparatus. G. M. Johnson. 1,942,247; Jan. 2.
Carbureting process and apparatus. F. C. F. Portail. 1,941,487; Jan. 2.
Carburetor. R. F. Bracke. 1,942,199; Jan. 2.
Carburetor. M. Bucherer. 1,941,658; Jan. 2.
Carburetor. F. H. Heitger. 1,941,862; Jan. 2.
Carburetor. F. A. Kane. 1,942,293; Jan. 2.
Carburetor. F. C. Schramm. 1,942,005; Jan. 2.
Cardboard, fiber board or the like, Apparatus for bending or creasing. J. I. Nasmith. 1,941,484; Jan. 2.
Card, Counting and calculating. S. Badanes. 1,941,733; Jan. 2.
Carrier: *See*—
  Baby carrier. Heater casing carrier.
Carton. L. Kulpinski. 1,941,843; Jan. 2.
Carton. V. Young. 1,941,775; Jan. 2.
Carton, Fruit shipping. W. F. Luce. 1,942,032; Jan. 2.
Casing cutter. A. E. Martois. 1,941,703; Jan. 2.
Casting head equipment. L. M. C. Seamark. 1,942,366; Jan. 2.
Catalysts, Preparing. J. L. Koetz. 1,941,557; Jan. 2.
Catalytic oxidation of organic compounds. A. O. Jaeger. 1,941,688; Jan. 2.
Catch and buffer, Combined door. W. A. P. Phipps. 1,941,576; Jan. 2.
Cathode, Indirectly heated. G. Jobst. 1,941,692; Jan. 2.
Cellulose derivatives, Molding. A. Eichengrün. 1,942,090; Jan. 2.
Cellulose solutions, Manufacture of. E. Scheller. 1,942,346; Jan. 2.
Cement clinker chamber or the like. H. S. Lee. 1,941,561; Jan. 2.
Cement clinker cooling chamber or the like. H. S. Lee. 1,941,560; Jan. 2.
Ceramic product and the manufacture thereof, Process. F. E. Kern. 1,941,804; Jan. 2.
Chain. L. E. Baer. Des. 91,261; Jan. 2.
Chair: *See*—
  Bathroom chair. Folding chair.
  Collapsible chair.
Chair, Vehicle. E. M. Knabusch and E. J. Shoemaker. 1,941,901; Jan. 2.
Charting device. R. W. Walsh. 1,942,075; Jan. 2.
Chemical reactions, Apparatus for carrying out exothermic. R. Du Chaffaut. 1,942 021; Jan. 2.
Chute, Coin. W. A. Tratsch. 1,941,637; Jan. 2.
Cigar holder. H. Alberg. Des. 91,258; Jan. 2.
Cigarette extinguisher and ash tray. H. J. Lebherz. 1,941,607; Jan. 2.
Cigarette holder. J. R. Blankenship. 1,941,531; Jan. 2.
Cigarette making machines, Apparatus for use in or in conjunction with. C. Oliver. 1,941,752; Jan. 2.
Cigarettes from cigarette packages, Attachment for removing. H. G. Hayes. 1,942,334; Jan. 2.
Circuit breaker. W. Kaufmann. 1,942,294; Jan. 2.
Circuit interrupter. O. K. Marti. 1 941,567; Jan. 2.
Circuit, Light sensitive. S. Ruben. 1,941,493; Jan. 2.
Circuit maker and breaker. M. Sollar. 1,942,309; Jan. 2.
Circuit, Transmitter tube. K. Heegner. 1,941,472; Jan. 2.
Circuits, Sound transmission. L. M. Applegate. 1,941,591; Jan. 2.
Clamp: *See*—
  Ground clamp. Tool clamp.
Clay for transportation and handling, Treating. W. S. Wilson. 1,942,196; Jan. 2.
Cleaner: *See*—
  Suction cleaner.
Clipper, Grass. E. L. Rasmussen. 1,941,718; Jan. 2.
Clips, Manufacturing metal. H. L. Greve. 1,941,892; Jan. 2.
Clock case and lamp or similar article, Combined. A. Levy. Des. 91,297; Jan. 2.
Clock dials and the like, Apparatus for illuminating. J. W. Hobbs. 1,941,553; Jan. 2.
Closure fastener. A. Turcotte. 1,941,641; Jan. 2.
Clutch: *See*—
  Slip clutch.
Clutch. R. T. Wise. 1,941,963; Jan. 2.
Clutch mechanism, Automatic. H. H. Vail. 1,941,588; Jan. 2.
Clutch operating mechanism. A. B. Winchell. 1,942,158; Jan. 2.
Clutch transmission, Automatic roller. G. Blackstock. 1,942,198; Jan. 2.
Clutch transmission, Reversible freewheel. G. Blackstock. 1,942,197; Jan. 2.
Coal and tar distillation. S. P. Miller. 1,942,375; Jan. 2.
Coal breaker. S. D. Hartshorn. 1,941,603; Jan. 2.
Coat, Belted. R. Gilbert. 1,941,468; Jan. 2.
Coating and product thereof. W. H. Moss. 1,941,709; Jan. 2.
Coating composition and film produced thereby. W. H. Moss and B. B. White. 1,941,708; Jan. 2.
Cock, Plug. J. R. Johansson. 1,941,839; Jan. 2.
Cock, Safety gas. L. Balazinski. 1,941,850; Jan. 2.
Coil, Trip. R. S. C. Seese. 1,941,511; Jan. 2.
Coin slide. W. A. Tratsch. 1,941,638; Jan. 2.
Collapsible chair D. E. McQuilkin. 1,942,112; Jan. 2.
Collapsible tube. E. Socoloff and J. J. Kaufman. 1,941,631; Jan. 2.
Collet, Stock feeding. M. H. Redmer. 1,941,999; Jan. 2.
Combination lock bolt. G. Schiemer. 1,942,259; Jan. 2.
Compass, Induction. N. Minorsky. Re19,038; Jan. 2.
Composition and material comprising cellulose esters or ethers. A. J. Daly. 1,941,664; Jan. 2.
Composition containing derivatives of cellulose. W. H. Moss. 1,941,710; Jan. 2.
Concrete, Curing. I. S. Reynolds. 1,942,000; Jan. 2.
Condensation product of carbohydrates and crude hydrocarbons, Bleached. A. O. Jaeger and H. W. Witzel. 1,941,475; Jan. 2.
Condenser: *See*—
  Electrical condenser. Surface condenser.
  Electrolytic condenser.
Condenser controls for moving vehicles, Steam. C. B. Faverty. 1,941,885; Jan. 2.
Connecter for semitrailers, Fifth wheel. W. S. Gurton, J. Plint and H. Nyberg. 1,941,682; Jan. 2.
Contact finger for relays. J. F. Merkel. 1,942,147; Jan. 2.
Container: *See*—
  Nonrefillable container.
  Railway shipping container.
Container. C. F. McAleer. 1,941,568; Jan. 2.
Container. J. E. Page. 1,941,619; Jan. 2.
Container. O. I. Struve. 1,941,871; Jan. 2.
Container and pyrophoric lighter, Combined cigarette. P. A. Whittaker. Des. 91,289; Jan. 2.
Container for adhesive and the like. V. W. G. Kemp. 1,942,248; Jan. 2.
Container for iced cake. T. C. Costello. 1,941,538; Jan. 3.
Control and gate valve, Combination. G. A. Alviset. 1,942,232; Jan. 2.
Control device. F. M. Bosworth and H. D. Stecher. 1,942,273; Jan. 2.
Control for pressure feed lubricating systems. T. W. Hallerberg. 1,942,096–7; Jan. 2.
Control mechanism, Totalizator odds indicator remote. G. A. and A. F. Julius. 1,942,336; Jan. 2.
Conveyer. N. W. Dorman and J. G. Eisenbach. 1,941,829; Jan. 2.
Conveyer. L. E. Hirt. 1,941,604; Jan. 2.
Conveyer. C. S. Jennings. 1,941,899; Jan. 2.
Conveyer. R. R. Worrall. 1,941,525; Jan. 2.
Conveyer, Fluid current. W. B. Thompson. 1,942,379; Jan. 2.
Conveyer system. G. A. Grassby, jr. 1,941,891; Jan. 2.
Conveyer type of pair or pack furnace. T. J. Costello. 1,941,599; Jan. 2.
Conveying apparatus. K. Heinemann. 1,941,938; Jan. 2.
Conveying apparatus. J. H. Morrow. 1,941,572; Jan. 2.
Conveying system. J. H. Morrow. 1,941,573; Jan. 2.
Cooker. C. Rosellini. 1,941,580; Jan. 2.
Cooking vessel or similar article. W. I. Tycer. Des. 91,285; Jan. 2.
Cooler and deodorizer, Milk. O. C. Harris. 1,942,058; Jan. 2.
Cooler and method of cooling water, Water. A. Gudmundsen. 1,941,798; Jan. 2.
Cooling and ventilating device. R. F. Kehrberg. 1,941,864; Jan. 2.
Cooling unit. D. K. Hess. 1,942,288; Jan. 2.
Core knock-out and cleaning apparatus for castings and the like, Hydraulic. W. A. Rosenberger. 1,941,915; Jan. 2.
Corepulling and ejecting mechanism. L. H. Morin. 1,941,811; Jan. 2.
Corn popping apparatus. C. Cretors. 1,941,973; Jan. 2.
Corset. R. B. Quine. 1,942,038; Jan. 2.
Coupling for shafts forming angles. C. Martinto. 1,941,908; Jan. 2.
Cover: *See*—
  Furniture slip cover.
Cream separator. J. W. Hall. 1,941,859; Jan. 2.
Creosoting compositions, Preparing. S. P. Miller. 1,942,373; Jan. 2.
Crusher. E. H. Frickey. 1,942,143; Jan. 2.
Crusher. H. G. Welsford and A. N. Russell. 1,941,770; Jan. 2.
Cup: *See*—
  Sputum cup.
Cup-like wrapping element for sweetmeats and the like. A. Kenny. 1,941,944; Jan. 2.

Current transformer system, Direct. B. C. von Platen. 1,941,643; Jan. 2.
Cushion and like device. E. B. Killen. 1,942,296; Jan. 2.
Cushion construction. F. L. Brown. 1,941,785; Jan. 2.
Cushioned egg box. H. M. Russell. 1,941,719; Jan. 2.
Cut-out for series lamps. D. S. Gustin and E. Dietz. 1,941,984; Jan. 2.
Cutter: *See*—
Casing cutter.
Cutting, filing, and scraping implement. S. Segal. 1,942,220; Jan. 2.
Cutting, trimming, and ornamenting machine. A. W. Altvater. 1,941,966; Jan. 2.
Cylinder head assembly for internal-combustion engines. E. S. MacPherson. 1,941,947; Jan. 2.
Cylinder hones and the like, Device for adjusting. W. E. Heuer. 1,941,837; Jan. 2.
Dark slide. W. Salchow. 1,941,625; Jan. 2.
Dash pot for time lag relays. F. Wolff. 1,942,040; Jan. 2.
Dental flask press. R. C. Angell. 1,941,780; Jan. 2.
Desk. C. F. Wolters. 1,942,387; Jan. 2.
Desk top, Portable. L. S. Madden. 1,942,340; Jan. 2.
Dial for multirange radioreceivers. J. T. Webber. 1,942,012; Jan. 2.
Dial for various apparatus. R. Mélik-Minassiantz. 1,942,343; Jan. 2.
Diaper. E. Friedman. 1,941,677; Jan. 2.
Diaper, Form fitting. W. L. Leavy. 1,941,868; Jan. 2.
Diaphragm for electrolytic cells. H. Müller. 1,942,183; Jan. 2.
Dibenzanthrone, Production of. H. J. West. 1,944,771; Jan. 2.
Die: *See*—
Perforating die.
Dish and like washing machine. C. F. Collins. 1,941,660; Jan. 2.
Disk brake. G. S. Lane. 1,942,029–30; Jan. 2.
Dispenser for toothpaste and like commodities, Self-sealing. V. S. Wilcox. 1,941,727; Jan. 2.
Dispensing apparatus, Liquid. L. Tribout. 1,942,347; Jan. 2.
Dispensing machine. I. I. Gisser. 1,942,166; Jan. 2.
Display device. H. B. Hyams. 1,941,838; Jan. 2.
Display stand. C. L. Foretich. 1,941,675; Jan. 2.
Door closer. P. C. Richter and R. S. Potter. 1,942,185; Jan. 2.
Door control and operating device. R. Calabrese. 1,941,969; Jan. 2.
Doorlock, Steel. S. Cooper. 1,942,087; Jan. 2.
Door operating apparatus, Elevator. H. W. Mattingly and F. E. Lewis. 1,942,253; Jan. 2.
Door operating mechanism. H. G. Ainsworth. 1,941,454; Jan. 2.
Door operator. F. L. Nichols. 1,941,574; Jan. 2.
Draft gear. L. M. Clark. 1,941,787; Jan. 2.
Drain valve. B. Mollberg. 1,941,482; Jan. 2.
Drainage control. W. Pruneau. 1,941,578; Jan. 2.
Drainage system and fitting therefor. E. W. N. Boosey. 1,941,926; Jan. 2.
Drawing board and the like. T. E. Horst. 1,941,554; Jan. 2.
Dresser or similar article. H. H. Koster. Des. 91,273; Jan. 2.
Drier: *See*—
Inner tube drier.
Drilling device, Straight hole. V. E. Stroud. 1,941,723; Jan. 2.
Drilling machine. G. Heinish and L. A. Krupp. 1,941,894; Jan. 2.
Drilling mechanism. R. H. Wilhelm. 1,942,014; Jan. 2.
Driving means for slicing machine knives. W. A. van Berkel. 1,941,519; Jan. 2.
Driving mechanism. R. W. Clifford. 1,941,464; Jan. 2.
Driving mechanism, Intermittent. A. E. Hine. 1,942,028; Jan. 2.
Dual action deluge valve. E. A. Lowe. 1,941,700; Jan. 2.
Dump body. T. E. Wright. 1,942,319; Jan. 2.
Dust collector. H. W. Krag. 1,941,988; Jan. 2.
Dust losses from shaft furnaces, Reducing the. G. Eichenberg and N. Wark. 1,941,545; Jan. 2.
Earthenware, Apparatus for manufacturing. D. B. Howell. 1,941,802; Jan. 2.
Economizer. A. C. Schleh. 1,941,496; Jan. 2.
Egg packing. R. W. Regensburger. 1,941,954; Jan. 2.
Egg separating apparatus. G. Hatcher. 1,942,245; Jan. 2.
Electric circuit closing attachment for shoe heels. J. A. Davidson. 1,942,325; Jan. 2.
Electric control system and recording device. W. Ellman and F. Berbley. 1,941,668; Jan. 2.
Electric distributing system and apparatus, High tension. G. A. Burnham. 1,941,463; Jan. 2.
Electric energy indicating machine. O. Szilas and N. Székely. 1,942,193; Jan. 2.
Electric illuminating apparatus. W. F. Westendorp. 1,942,078; Jan. 2.
Electric time lock, Antibandit. W. T. Benham. 1,942,045; Jan. 2.
Electrical attachment fitting. M. Propp. 1,941,488–9; Jan. 2.
Electrical condenser. S. W. Seeley. 1,942,153; Jan. 2.
Electrical heater. G. N. Sexton. 1,941,584; Jan. 2.
Electrically heated apparatus. E. C. Britton. 1,942,382; Jan. 2.
Electrode, Depolarizing. M. L. Martus and E. H. Becker. 1,941,869; Jan. 2.
Electrode, Welding. A. C. Rood. 1,942,364; Jan. 2.
Electrodes for electric glow discharge tubes, System of. G. Seibt. 1,941,956; Jan. 2.
Electrodeposition of chromium. C. G. Fink and C. H. Eldridge. 1,942,356; Jan. 2.
Electrolysis apparatus stand. J. Brigida. Des. 91,264; Jan. 2.
Electrolytic condenser. H. J. Tyzzer. 1,941,725; Jan. 2.
Electrolytic method and cell for the decomposition of water. A. T. Stuart. 1,941,816; Jan. 2.
Electromechanical process for the recovery of metals from ores and other metal bearing materials. R. Rodrian. 1,941,914; Jan. 2.
Electron discharge device. H. L. Crowley. 1,941,661; Jan. 2.
Elevating and dumping device. A. R. Beck and J. S. Warren. 1,941,530; Jan. 2.
Elevator dispatching system. E. M. Bouton and F. E. Lewis. 1,942,236; Jan. 2.
Emulsifier. K. E. McConnaughay. 1,941,808; Jan. 2.
Emulsion decomposing body. C. Fischer, jr., and W. T. Reddish. 1,941,886; Jan. 2.
Engine: *See*—
Injection engine. Internal combustion engine.
Engine. S. F. Evelyn. 1,942,206; Jan. 2.
Engine. H. H. Timian. 1,942,226–7; Jan. 2.
Engine-electric installation for vehicles, Internal combustion. O. Simmen. 1,941,500; Jan. 2.
Engine oiling system. W. F. Davis. 1,941,974; Jan. 2.
Envelope. H. McLaughlin. 1,941,847; Jan. 2.
Equalizer seat cushion. W. H. Mussey. 1,941,996; Jan. 2.
Eraser, Blackboard. A. A. Elnett. 1,942,205; Jan. 2.
Eraser holder. F. M. Hale. 1,942,283; Jan. 2.
Error compensating device for radiogoniometers. E. Bellini. 1,941,457; Jan. 2.
Ether-derivatives of 1-benzyl-3-methyl-isoquinoline, Manufacture of. O. Wolfes. 1,941,647; Jan. 2.
Evaporator. M. J. Kermer. 1,941,693; Jan. 2.
Excursion outfit, Convertible. P. Bellavia. 1,941,652; Jan. 2.
Exhaust system, Indirect. A. R. Clark. 1,942,048; Jan. 2.
Eyeglasses. E. Le Doux. 1,942,298; Jan. 2.
Fabric: *See*—
Wire spring fabric.
Fabric. L. W. Griffis. Des. 91,296; Jan. 2.
Facing, Friction. H. Abert. 1,941,872; Jan. 2.
Fastener: *See*—
Closure fastener. Window lock fastener.
Fastener and bolt, Window. C. S. Bock. 1,941,459; Jan. 2.
Fastener blanks, Producing metallic. G. A. Anderson. 1,942,043; Jan. 2.
Fastening for gratings. C. M. Wellons. 1,941,589; Jan. 2.
Fastening means for expansible bodies. C. Brown. 1,942,237; Jan. 2.
Feed water heater. A. Magis and A. Huet. 1,942,179; Jan. 2.
Fibrous materials, Treatment of. I. Tudor and O. Tudor-Hart. 1,941,451; Jan. 2.
Filing device. F. A. Pettis. 1,941,910; Jan. 2.
Film gate for motion-picture-projection machines. L. S. Frappier and E. Boecking. 1,941,676; Jan. 2.
Film reel and support thereof. O. Wittel. 1,941,523; Jan. 2.
Film spooling system, Motion-picture. O. Wittel. 1,941,522; Jan. 2.
Filter: *See*—
Air filter.
Filter. O. Hennings. 1,941,895; Jan. 2.
Filter apparatus, Air. H. Wittemeier and W. Neumann. 1,941,524; Jan. 2.
Filtering device. L. M. Gill. 1,941,982; Jan. 2.
Finger nail, Artificial. A. Hamberg. 1,942,332; Jan. 2.
Fishing reel. F. Crawford. 1,941,739; Jan. 2.
Fitting, Waste and overflow. A. N. Pasman. 1,941,714; Jan. 2.
Flange construction. W. F. Kispert. 1,941,841; Jan. 2.
Flies and other insects, Device for killing. J. L. Martin. 1,942,252; Jan. 2.
Floor construction, Metal. R. T. Bell. 1,941,967; Jan. 2.
Flow control apparatus. H. A. Gollmar. 1,942,094; Jan. 2.
Flow control method and apparatus, Dynamic. A. D. MacLean. 1,941,701; Jan. 2.
Fluid cleaning apparatus. A. H. Benesh. 1,942,381; Jan. 2.
Fluid compressor. J. E. Behlmer. 1,941,651; Jan. 2.
Fluid-flow control. H. M. Blinn and H. T. Hunter. 1,942,132; Jan. 2.
Fluid-heating apparatus. D. S. Jacobs. 1,942,170; Jan. 2.
Fluid mixer. J. V. Resek. 1,942,270; Jan. 2.
Fluid mixing device. L. L. Davies, J. V. Resek, and W. W. Carson, jr. 1,942,269; Jan. 2.
Fluid pressure operated device. I. G. Ringstrom. 1,941,815; Jan. 2.
Folding and wrapping machine. G. J. Egenolf. 1,941,544; Jan. 2.
Folding chair. W. O. Brown. Des. 91,292; Jan. 2.
Folding machine. A. R. Ridderstrom. 1,942,363; Jan. 2.
Folding table. J. F. Bradbury. 1,941,927; Jan. 2.
Foot corrective device. R. V. Parsons. 1,941,718; Jan. 2.

Form for concrete floor construction. W. M. Goldsmith and B. Harig. 1,942,093; Jan. 2.
Frame: *See*—
Metal window frame. Spectacle frame.
Friction brake. W. A. Blume. 1,941,656; Jan. 2.
Friction draft gear. A. F. Stuebing. 1,942,377; Jan. 2.
Fruits, Merchandising preserved. M. Heseltine. 1,942,212; Jan. 2.
Fuel agglomerates, Producing coked. E. H. Bunce. 1,941,462; Jan. 2.
Fuel feeding system. J. G. Vincent. 1,941,642; Jan. 2.
Fuel, Motor. A. O. Jaeger. 1,941,689; Jan. 2.
Fuel vapor and air mixer. P. Ruffino. 1,942,187; Jan. 2.
Fuels, Method of and apparatus for the treatment and use of liquid. E. A. Burrows. 1,941,968; Jan. 2.
Funnel. L. Green. 1,942,282; Jan. 2.
Furnace: *See*—
Hot air furnace.
Furnaces, Apparatus for feeding batch to glass melting. E. O. Hiller. 1,941,897; Jan. 2.
Furniture. W. R. McGowen. 1,942,301–2; Jan. 2.
Furniture, Knock-down leg for. G. H. Rundle. 1,942,003; Jan. 2.
Furniture slip cover. J. Levi. 1,942,111; Jan. 2.
Fuse plug adapter. A. Machenheimer. 1,942,178; Jan. 2.
Game. E. C. Fohmann. 1,942,280; Jan. 2.
Game apparatus. R. Smith. 1,941,630; Jan. 2.
Game board. G. V. Jefferson. 1,942,291; Jan. 2.
Games, Apparatus for simulated card. R. Stavely, E. M. Robinson, and P. A. Robinson. 1,942,376; Jan. 2.
Garment, Combination. H. Wipperman. 1,941,505; Jan. 2.
Gas and a hydrocarbon oil, Purifying a hydrocarbon. C. W. Garrison. 1,942,054; Jan. 2.
Gas-bulb heating apparatus. A. W. Machlet. 1,941,807; Jan. 2.
Gas generator. C. W. Andrews and W. B. Chapman. 1,941,455; Jan. 2.
Gas mixtures, Separation of. P. Baumann, H. Tanneberger, and H. Schilling. 1,942,131; Jan. 2.
Gas purification. C. Davies, jr. 1,942,050; Jan. 2.
Gas purification. F. W. Sperr, jr. 1,942,072; Jan. 2.
Gas service regulator. A. G. Ford. 1,941,831; Jan. 2.
Gases Electrical purification of. R. Heinrich. 1,941,861; Jan. 2.
Gasifier, Electric. H. Gamard. 1,941,678; Jan. 2.
Gauge: *See*—
Grinding gauge.
Gauge. J. Pignone. 1,942,118; Jan. 2.
Gauge stabilizer, Pressure. R. R. McDonell. 1,941,613; Jan. 2.
Gear: *See*—
Draft gear.
Gear for internal-combustion engines, Starting. A. C. Lock. 1,941,698; Jan. 2.
Gear pinion. P. J. Muschong. 1,941,994; Jan. 2.
Gearing for motor vehicles, Differential. M. Walter. 1,941,645; Jan. 2.
Generator: *See*—
Gas generator.
Generator with pumping attachment, Wind-driven electric power. G. Manikowske. 1,941,611; Jan. 2.
Glass, Apparatus for maintaining the thickness of drawn. J. Arrault. 1,941,924; Jan. 2.
Glass, Method of and apparatus for making. W. O. Amsler. 1,941,778; Jan. 2.
Glass, Process and apparatus for feeding. W. J. Miller and E. A. Lawrence. 1,942,035; Jan. 2.
Glass tank. W. O. Amsler. 1,941,779; Jan. 2.
Glass transfer mechanism. S. B. Bowman and T. Stenhouse. 1,942,084; Jan. 2.
Globe holder. I. G. Webb. 1,942,156; Jan. 2.
Golf club. M. B. Reach. 1,942,122; Jan. 2.
Governor, Centrifugal speed. A. S. Howell. 1,941,473; Jan. 2.
Granulating machine. R. De Angelis. 1,941,827; Jan. 2.
Grate. J. S. Thompson. 1,941,919; Jan. 2.
Grate, Safety gas. J. Kirk. 1,941,866; Jan. 2.
Grille or the like. G. W. Fowler. Des. 91,266; Jan. 2.
Grinder, Refrigerated meat. E. Biancalana. 1,942,082–3; Jan. 2.
Grinding and polishing machine for cutting tools. L. Steiner. 1,941,501; Jan. 2.
Grinding device. H. G. Evans. 1,941,977; Jan. 2.
Grinding gauge. P. S. Arnold. 1,941,456; Jan. 2.
Grinding machine. L. W. Johnson and W. F. Hoag. 1,941,478; Jan. 2.
Ground clamp. J. Mangin. 1,942,341–2; Jan. 2.
Grounding device for electrical wiring systems. J. E. Mair. 1,941,905; Jan. 2.
Guard and heat transfer device, Combination. C. W. Hartwig. 1,942,211; Jan. 2.
Guard, Motorcycle protecting. W. S. Harley. 1,941,801; Jan. 2.
Gunfire control, System of and apparatus for. W. W. Willard. 1,942,079; Jan. 2.
Hair, Device for use in waving or curling the. F. Maeder. 1,941,948; Jan. 2.
Hair waving apparatus. A. G. Borden. 1,941,594; Jan. 2.
Hammer, Electromagnetic. G. M. J. Blomqvist and F. O. J. Kinley. 1,941,655; Jan. 2.
Handle. L. E. Wheeler. Des. 91,288; Jan. 2.
Harrow. C. H. White. 1,941,504; Jan. 2.
Harvester. M. R. Baker. 1,941,821; Jan. 2.
Harvester, Cotton. E. G. Stone. 1,942,192; Jan. 2.
Harvester hitch. C. E. Everett. 1,941,670; Jan. 2.
Harvesting machine. T. N. Pierson. 1,942,037; Jan. 2.
Head, Changeable. E. Jacobson. 1,942,370; Jan. 2.
Headlamp safety device. L. A. Molten. 1,941,571; Jan. 2.
Headlight control apparatus, Vehicle. R. Hipp, jr. 1,942,289; Jan. 2.
Heat exchanger, Indirect. R. H. Stone and E. F. Tilley. 1,941,587; Jan. 2.
Heat insulation. C. H. Campbell. 1,942,162; Jan. 2.
Heat treatment of liquids. F. W. Steere. 1,942,191; Jan. 2.
Heater: *See*—
Air heater. Feed water heater.
Electrical heater. Windshield heater.
Heater casing. E. A. Jones. 1,942,103; Jan. 2.
Heater for indirectly heated cathodes. A. H. Young. 1,942,080; Jan. 2.
Heater for permanently waving hair. J. W. Cox. 1,941,600; Jan. 2.
Heating and cooling system, Reversing-cycle. C. Kerr, jr., and J. K. Stotz. 1,942,295; Jan. 2.
Heating apparatus for automotive vehicles. V. J. Butterfield. 1,941,825; Jan. 2.
Heel, Shoe. S. M. Tutoky. 1,942,312; Jan. 2.
Hinge. F. G. Bates. 1,941,529; Jan. 2.
Hobby horse. R. O. Stockil. 1,941,722; Jan. 2.
Hoist attachment for trucks. W. Schroeder. 1,941,582; Jan. 2.
Holder: *See*—
Cigar holder. Sponge holder.
Cigarette holder. Ticket holder.
Eraser holder. Tobacco stringing lath holder.
Globe holder. Toilet paper holder.
Lip stick holder.
Holder and cutter, Pack. S. J. Bens. 1,941,458; Jan. 2.
Holder or package, Display. C. D. Reed. 1,941,757; Jan. 2.
Hoop, Train order. R. A. Stockwell. 1,942,010; Jan. 2.
Hose connection. L. Fraley. 1,941,856; Jan. 2.
Hosiery drying apparatus. P. Guggenheim. 1,941,893; Jan. 2.
Hot air furnace. D. R. Bard. 1,941,822; Jan. 2.
Hydraulic brake. E. F. Loweke. 1,941,563; Jan. 2.
Hydraulic press. G. H. Mains. 1,942,251; Jan. 2.
Hydrocarbon conversion process. W. B. Plummer. 1,941,577; Jan. 2.
Hydrocarbons into those of lower boiling point, Conversion of. H. Engel and J. Jannek. 1,941,884; Jan. 2.
Hydrogenation system. W. B. Plummer. 1,942,120; Jan. 2.
Hydroxy-benzo-quinoline-carboxylic acid. L. Laska and O. Haller. 1,942,108; Jan. 2.
Ice-cream cone. S. S. Leaf. Des. 91,274; Jan. 2.
Ignition stick. F. Ringer. 1,941,621; Jan. 2.
Impregnated and superficially smoothed articles. L. Kollek and W. Engels. 1,942,146; Jan. 2.
Impregnated fibrous block. G. J. Ward. 1,941,769; Jan. 2.
Indicator for aircraft. J. S. Bennett. 1,941,533; Jan. 2.
Induction meter. H. Fröhlich, T. Hausch, and W. Zingg. 1,942,164; Jan. 2.
Induction welder. J. L. Adams, jr. 1,941,526; Jan. 2.
Injection engine. F. Lang. 1,941,805–6; Jan. 2.
Inner tube drier. C. Taarud. 1,942,311; Jan. 2.
Insect trap. S. B. Coleman. 1,941,659; Jan. 2.
Insoles, Gemming. E. A. Ellis. 1,931,934; Jan. 2.
Insulating product. L. Weber. 1,942,013; Jan. 2.
Insulator. W. A. Hillebrand. 1,941,749; Jan. 2.
Insulator, Electric. E. Burke. 1,942,133; Jan. 2.
Insulator, Electric. G. H. Halton. 1,942,284; Jan. 2.
Interlocking system for railroads. C. S. Bushnell. 1,942,134; Jan. 2.
Internal-combustion engine. F. C. Russell and J. H. Bradbury. 1,942,127; Jan. 2.
Interrupter. E. E. Frey. 1,942,023; Jan. 2.
Interrupter, Electrical. E. E. Frey. 1,942,024; Jan. 2.
Iron, Aluminogenetic. W. Sander. 1,942,004; Jan. 2.
Iron and making the same, Ductile cast. F. A. Fahrenwald. 1,941,671; Jan. 2.
Iron, Metallurgy of. A. Gudmundsen. 1,941,983; Jan. 2.
Iron or steel with aluminum or aluminum alloys, Thermically coating objects of. E. H. E. Johansson. 1,941,750; Jan. 2.
Jack: *See*—
Automobile jack. Mechanical jack.
Jar sealer. E. H. Fisher. 1,941,674; Jan. 2.
Jig, Soldering. R. V. Williams. 1,941,772; Jan. 2.
Joint: *See*—
Seepage joint. Wall board joint.
Universal joint.
Keyboard transmitter and perforated tape transmitter, Combined. S. W. Rothermel. 1,941,916; Jan. 2.
Kilns, Ware support for. W. W. Irwin. 1,941,941; Jan. 2.
Knife carrier for paper-cutting machines. K. Stegmann. 1,941,957; Jan. 2.
Knitting machine. R. S. Beavers. 1,942,322; Jan. 2.
Lace. S. H. Page. Des. 91,280; Jan. 2.
Lace. S. H. Page. Des. 91,299; Jan. 2.
Lace. J. H. Worrall. Des. 91,308; Jan. 2.
Ladder brace. H. B. Gaffers. 1,941,890; Jan. 2.
Ladder, Universal folding. W. Harting. 1,942,210; Jan. 2.
Lamp coating. A. F. Lindstrom. 1,941,990; Jan. 2.
Lateral journal bearing, Auxiliary. J. A. Pilcher. 1,941,486; Jan. 2.

Lay for bobbin changing looms. H. A. Davis. 1,941,931; Jan. 2.
Lead in metallic condition, Obtaining. P. Gamichon. 1,942,208; Jan. 2.
Leather manufacture. R. Pasternack and G. O. Gragwall. 1,941,485; Jan. 2.
Left-foot feed. G. H. Sweet. 1,941,516; Jan. 2.
Leg, Artificial. C. L. Freeman. 1,942,053; Jan. 2.
Lid connection. M. Stahl. 1,942,310; Jan. 2.
Lifting apparatus. A. J. Michelin. 1,942,114; Jan. 2.
Light sensitive device. S. Ruben. 1,941,494; Jan. 2.
Light signal lens. A. T. Carter and E. W. Moore. 1,942,136; Jan. 2.
Lighter arrangement, Pyrophoric. L. V. Aronson. 1,941,873; Jan. 2.
Lighting device. W. A. Villiers. 1,941,503; Jan. 2.
Lighting fixture. G. E. Glatthar and F. Wening. 1,941,469–70; Jan. 2.
Lighting structure, Refrigerator. F. E. Horn. 1,942,290; Jan. 2.
Line-casting mold. L. Geisert. 1,941,679; Jan. 2.
Lining or the like, Drawer. L. F. Worth. 1,941,922; Jan. 2.
Lip-stick holder. H. H. Harris. Des. 91,270; Jan. 2.
Liquid fuel burner. E. T. and A. H. Babcock. 1,941,820; Jan. 2.
Liquid level controlling means. E. Duhme. 1,942,241; Jan. 2.
Liquid measuring and dispensing device, Automatic coin operated. E. Getaz. 1,942,330; Jan. 2.
Liquid meter. R. S. Bassett. 1,941,925; Jan. 2.
Loader, Conveyer truck. A. Janson. 1,941,986; Jan. 2.
Location in progress over a given area, Determining. J. P. Shanklin. 1,942,262; Jan. 2.
Lock. E. Deutsch. 1,941,932; Jan. 2.
Lock. E. N. Jacobi. 1,941,555; Jan. 2.
Lock. C. B. Lowe. 1,942,176; Jan. 2.
Lock for automobiles, Gasoline line. J. E. Swayzee. 1,942,129; Jan. 2.
Locomotive front end. W. F. Mitchell. 1,942,215; Jan. 2.
Log for cabins and the like. B. R. Ward. 1,942,348; Jan. 2.
Looms, Electric feeler for. H. W. Thatcher. 1,941,960; Jan. 2.
Looms, Filling carrier support for. L. E. Gatlin. 1,941,937; Jan. 2.
Lubricated bearing. H. E. Warren. 1,942,077; Jan. 2.
Lubricating device and system. H. A. S. Howarth. 1,942,101; Jan. 2.
Lubricating of axle bearings for rail vehicles. W. Lehmann. 1,941,946; Jan. 2.
Lubricating system. H. E. Martin. 1,942,180; Jan. 2.
Machine for coiling solder. A. F. Sternad. 1,942,264; Jan. 2.
Machine for preparing or spinning yarns or threads. W. A. Dickie and F. C. Hale. 1,941,666; Jan. 2.
Machine for the production of a plurality of substantially similar units. E. P. Muntz. 1,941,812; Jan. 2.
Machine for turning and grinding. G. E. Cleveland. 1,941,598; Jan. 2.
Machine for wrapping cokes or the like. F. Baldwin. 1,942,017; Jan. 2.
Machine tool. B. Graves and A. F. Bennett. 1,942,209; Jan. 2.
Magazine adjusting device for typographical composing machines. C. A. Albrecht. 1,941,729; Jan. 2.
Magnesium alloy, Rolling. R. D. Lowry and F. L. Reynolds. 1,941,608; Jan. 2.
Magneto. C. F. Reis. 1,942,123; Jan. 2.
Mandrel, Coil winding. J. G. Myers. 1,942,113; Jan. 2.
Manifold, Sectional. H. H. Dodge. 1,941,466; Jan. 2.
Manifolding device. J. S. Fleming. 1,941,888; Jan. 2.
Map, Indicator. C. J. Amos. 1,941,777; Jan. 2.
Map mileage indicator, Automobile. B. E. Woodcock. 1,942,130; Jan. 2.
Massage apparatus. R. E. De Walt. 1,941,665; Jan. 2.
Material for making decorative devices such as artificial flowers, etc., and making such material. M. Kaplan. 1,942,174; Jan. 2.
Material for scouring devices. E. S. Bradford, jr. 1,941,928; Jan. 2.
Material from vegetable matter of high pentosan containing pento-cellulose materials, Process relating to the production of a. O. R. Sweeney and C. E. Hartford. 1,941,817; Jan. 2.
Materials, Process and mechanism for separating intermixed divided. R. Peale. 1,941,490; Jan. 2.
Matrix-setting and type-line-casting machine. J. Dorneth. 1,942,326; Jan. 2.
Mattress and making the same, Tufted. J. F. Gall. 1,941,794; Jan. 2.
Mechanical jack. E. F. Green and F. A. Graham. 1,942,244; Jan. 2.
Mechanical movement. W. E. Urschel. 1,942,011; Jan. 2.
Mercury switch. G. F. Callahan. 1,941,971; Jan. 2.
Messages through submarine and other like cables, Means of and apparatus for transmitting. W. Estaugh. 1,942,278; Jan. 2.
Metal window frame. G. Chauvet. 1,942,239; Jan. 2.
Metallurgical apparatus. C. R. Kuzell. 1,941,606; Jan. 2.
Metals by polarisation, Testing. T. D. Bottome. 1,942,048; Jan. 2.
Metals from melts containing metal oxides, Recovering nonferrous. W. Witter. 1,941,506; Jan. 2.
Metals from siliceous rocks, Obtaining. E. Wydler. 1,942,015; Jan. 2.
Meter: *See*—
Induction meter. Water meter.
Liquid meter.
Meter testing device. I. F. Kinnard. 1,942,063; Jan. 2.
Mitten and making the same, Knitted. D. Zwicker. 1,941,508; Jan. 2.
Mixer: *See*—
Fluid mixer.
Mixing device for gases carrying solid particles. R. M. Hardgrove. 1,941,471; Jan. 2.
Mold: *See*—
Line casting mold.
Temperature construction mold.
Molder for microscopes. H. Plies. 1,941,758; Jan. 2.
Molecular vacuum pump. J. Dubrovin. 1,942,139; Jan. 2.
Monogram. M. Chernow. 1,942,240; Jan. 2.
Mop, Self cleaning dust. A. B. Courchene. 1,942,204; Jan. 2.
Motion picture reel. O. A. Ross. 1,942,186; Jan. 2.
Motor for wells, Wind. R. Bachmann and E. Alliot. 1,942,081; Jan. 2.
Mounting, Reflecting base jewel. E. Bager. 1,941,782; Jan. 2.
Mouthpiece for tobacco smoking devices. R. Sleeman. 1,941,512; Jan. 2.
Multiple system. L. Nemirovsky. 1,941,618; Jan. 2.
Multiwall bag. T. E. Coty. 1,942,019; Jan. 2.
Mushrooms, Apparatus for grading. W. E. Chambers. 1,942,238; Jan. 2.
Musical instrument, Electrical. M. L. Severy. 1,941,870; Jan. 2.
Musical instrument of the viol and violin type. J. S. Burdick. 1,941,595; Jan. 2.
Musical instrument, Stringed. J. H. Large. 1,941,559; Jan. 2.
Needle, Auxiliary knitting. K. R. Lieberknecht. 1,941,903; Jan. 2.
Nest, Hen's. J. W. Gottsch. 1,942,056; Jan. 2.
Nonrefillable container. I. J. Burdick. 1,941,929; Jan. 2.
Nonslipping surface and making the same. D. Repony. 1,941,912; Jan. 2.
Nozzle, Cement gun. J. T. Vawter. 1,941,726; Jan. 2.
Nut cracker. A. Meng. Des. 91,277; Jan. 2.
Nut husking machine. J. R. Hershey. 1,941,939; Jan. 2.
Obstetrical table. C. Payne. 1,942,344; Jan. 2.
Oil and wax, Separation of. S. W. Ferris. 1,941,601; Jan. 2.
Oil from hydrogen sulphide, Purifying hydrocarbon. C. J. Smith. 1,942,071; Jan. 2.
Oil, Refining a benzenoid. A. Kemper. 1,942,062; Jan. 2.
Oil shale, Hydrogenating and distilling. R. H. McKee. 1,941,809; Jan. 2.
Oil well pump. H. L. Dorn and W. A. Clark. 1,942,020; Jan. 2.
Oils, Neutralization of hydrocarbon. L. Caldwell and R. T. Howes. 1,941,970; Jan. 2.
Opener, Paper-carton. L. W. Goldstein. 1,941,680; Jan. 2.
Operator for ventilators. R. S. Peelle. 1,941,909; Jan. 2.
Ophthalmic lens. O. G. Haussmann. 1,942,333; Jan. 2.
Ores, Decomposing. G. A. Macready. 1,941,609–10; Jan. 2.
Ornament or similar article, Automobile radiator. W. Schnell and E. S. Carlson. Des. 91,300; Jan. 2.
Ornamental device for use in association with toy electric railways. L. G. Handy. 1,942,167; Jan. 2.
Oscillographic apparatus. C. M. Hathaway. 1,942,059; Jan. 2.
Oven, Brake. J. Faulds. 1,941,792; Jan. 2.
Package, Match. J. D. Lerch. 1,942,300; Jan. 2.
Packing ring and valve for internal combustion engines and the like. H. P. Stevens. 1,942,155; Jan. 2.
Padlock. S. R. Fraim. 1,942,328; Jan. 2.
Paper and the like, Coating. C. A. Dickhaut and C. C. Willis. 1,942,383; Jan. 2.
Paper, Apparatus for producing perforated. J. F. Hawley. 1,942,168; Jan. 2.
Paper article of apparel. H. G. Hillard. 1,941,836; Jan. 2.
Paper by the use of paraffin and other hydrophobic materials, Manufacture of open space coated abrasive. F. J. Tone. 1,941,962; Jan. 2.
Paper, Indenting. C. A. Bahr. 1,941,783; Jan. 2.
Paper, Marking. S. Steinberg. 1,941,633; Jan. 2.
Paste distributor. V. A. Hamilton. 1,941,800; Jan. 2.
Pasting mechanism for stitching machines. O. Kleinschmit and O. Müller. 1,941,867; Jan. 2.
Patch and plug, Combined blow-out. T. W. Mullen. 1,942,116; Jan. 2.
Peach pitting support and tip cutter. J. P. Bem. 1,941,875; Jan. 2.
Peanut flour for the manufacture of adhesives, Preparing. I. F. Laucks. 1,942,109; Jan. 2.
Pedal depressor, Hydraulic. A. E. Wilkoff. 1,942,368; Jan. 2.
Percolator, Coffee. W. T. Christman. Des. 91,265; Jan. 2.
Perforating attachment for printing presses. S. Meckler. 1,941,848; Jan. 2.
Perforating die. C. S. Knight. 1,942,145; Jan. 2.
Photo-electric control of glass feeders. E. O. Hiller. 1,941,896; Jan. 2.
Photo-electric tube. H. H. Geffcken and H. R. Richter. 1,942,165; Jan. 2.
Photographic apparatus. W. Salchow. 1,941,624; Jan. 2.
Photographic gelatin layer. J. Brunken. 1,941,852, Jan. 2.

Photographic objective. I. Kitroser and A. Averan. 1,941,696; Jan. 2.
Picture apparatus, Automatic reversing mechanism for motion. O. Wittel. 1,942,231; Jan. 2.
Picture, Art. B. C. Twichell. 1,941,518; Jan. 2.
Pictures accompanied by sound, Method of and apparatus for projecting motion. A. C. Pegg. 1,942,036; Jan. 2.
Pictures from metal foil, Producing plastic. H. Bogaerts. 1,941,736; Jan. 2.
Pictures, Making of sound synchronized motion. M. Fleischer. 1,941,980; Jan. 2.
Pile-forming and delivery means. S. G. Johnson. 1,942,172; Jan. 2.
Pillow or similar article. E. J. Barcalo. Des. 91,262; Jan. 2.
Pipe clamping device. W. A. Freeman. 1,941,889; Jan. 2.
Pipe coupling head, Automatic train. J. Robinson. 1,941,622; Jan. 2.
Pipe cutting and beveling apparatus. E. L. Hart. 1,942,099; Jan. 2.
Pipe fitting, Built-up. E. S. Cornell, jr. 1,941,465; Jan. 2.
Pipe support. J. H. Howard. 1,942,213; Jan. 2.
Pitch propeller, Variable. H. C. Roth. 1,942,126; Jan. 2.
Pitting and coring machine, Half-fruit. J. P. Bem. 1,941,874; Jan. 2.
Plastic or coating composition. A. O. Jaeger. 1,941,474; Jan. 2.
Plow. L. C. Hester. 1,941,940; Jan. 2.
Plug: *See*—
Spark plug. Wall plug.
Plug cap, Attachment. A. H. Massey. 1,941,612; Jan. 2.
Potato cutting machine. J. H. Russell. 1,941,720; Jan. 2.
Pothead or terminal for electric cables. F. C. Meyer and G. E. Moffitt. 1,941,614; Jan. 2.
Power distributing system, Electric. C. A. Johnson. 1,941,863; Jan. 2.
Power transmitter, Hydraulic. J. Fraser and D. Campbell. 1,942,281; Jan. 2.
Press: *See*—
Dental flask press. Hydraulic press.
Primer for gas engines. A. L. Parker. 1,942,255; Jan. 2.
Priming mixture. W. Brün. 1,942,274; Jan. 2.
Printer's quoin. S. Holt. 1,941,747; Jan. 2.
Printing device, Total. A. Kottmann. 1,942,106; Jan. 2.
Printing machine. F. E. Curtis. 1,941,663; Jan. 2.
Printing machine. A. Eley and E. J. Hodgkinson. 1,941,667; Jan. 2.
Printing machine. W. T. Gollwitzer. 1,941,681; Jan. 2.
Printing machine. H. E. Hubbard. 1,941,685; Jan. 2.
Producing diphenyl mono-sulphonic acid. W. C. Stoesser and R. F. Marschner. 1,942,386; Jan. 2.
Projectile. S. Wiley. 1,941,590; Jan. 2.
Proofing dough. H. Bentz. 1,941,658; Jan. 2.
Propeller. G. F. Houston. 1,942,100; Jan. 2.
Propeller blades, Making. J. Squires. 1,942,221–3; Jan. 2.
Propelling mechanism for tube forming machines. P. H. Minton. 1,941,993; Jan. 2.
Pry-out for switch boxes and the like. C. Newman and W. O. Roach. 1,941,997; Jan. 2.
Pump: *See*—
Automatic pump. Oil well pump.
Molecular vacuum pump. Rotary pump.
Pump apparatus for fire extinguishing systems, Booster. J. R. Hamilton. 1,941,683; Jan. 2.
Pump for greases, etc., Hand. W. P. Valentine. 1,942,367; Jan. 2.
Pumping. T. Bellocq. 1,941,593; Jan. 2.
Pyrites fines, Roasting. R. F. Bacon and W. Judson. 1,941,592; Jan. 2.
Radiator. J. Askin. 1,942,380; Jan. 2.
Radiator. A. M. Mertzanoff. 1,941,705; Jan. 2.
Radiator, Furnace. T. J. Cornwell and J. R. Strahlendorf. 1,942,203; Jan. 2.
Radiator grille, Louver-type. L. B. Green. 1,941,742; Jan. 2.
Radiator shell and grille assembly. L. B. Green. 1,941,797; Jan. 2.
Radiator, Thermo electric. R. M. Eggleston. 1,941,855; Jan. 2.
Radioantenna. J. S. Stone. 1,941,636; Jan. 2.
Radio beacon system. E. Sibley. 1,941,585; Jan. 2.
Radiocabinet or the like. E. Worthington. Des. 91,290; Jan. 2.
Radioreceiver. F. H. Drake. 1,942,327; Jan. 2.
Radioreceiver. L. G. Tatro. 1,942,378; Jan. 2.
Radio receiving circuit. R. G. Piety. 1,942,385; Jan. 2.
Radio set, Automobile. C. M. Tichenor and B. C. Booth. 1,941,961; Jan. 2.
Radio signaling apparatus, High frequency. O. S. Puckle. 1,941,543; Jan. 2.
Rails, Method and apparatus for lifting. R. E. Hunter. 1,941,803; Jan. 2.
Railroad rails, Replacing. P. Collet and R. Loiseau. 1,941,930; Jan. 2.
Railway shipping container. R. Faries. 1,942,022; Jan. 2.
Range or stove, Straight-line cooking top. J. Teller and A. P. Schuls. 1,942,265; Jan. 2.
Razor and stropping attachment, Safety. H. Cordrey. 1,942,049; Jan. 2.
Razor sharpening device. A. J. Warren. 1,942,229; Jan. 2.
Reaction products of ketene, Making. G. H. Law. 1,942,110; Jan. 2.
Reamer. E. E. Davis. 1,941,790; Jan. 2.
Reaping machines for the purpose of lifting fallen grain, Attachment to. J. Harkness. 1,942,286; Jan. 2.
Receptacle: *See*—
Stock receptacle.
Receptacle and tray, Combined. P. A. Labbe. 1,941,558; Jan. 2.
Record. E. K. Bottle. 1,941,876; Jan. 2.
Reel: *See*—
Fishing reel. Motion picture reel.
Reel. C. I. Earll. 1,941,880–1; Jan. 2.
Reel and similar device, Hose. J. W. Ash. 1,942,388; Jan. 2.
Refrigeration with solid carbon dioxide. F. Heywood. 1,941,744; Jan. 2.
Refrigerator. I. Marinsky. 1,941,906; Jan. 2.
Refrigerator. J. E. W. Reeh. 1,942,307; Jan. 2.
Regenerator construction. H. Etherington. 1,941,976; Jan. 2.
Regulator: *See*—
Feed water regulator. Gas service regulator.
Relay. O. S. Field. 1,942,142; Jan. 2.
Relay, Motor-operated. C. Wilhjelm. 1,941,920–1; Jan. 2.
Remote control for movable members of machine tools. K. F. Gallimore. 1,942,092; Jan. 2.
Remote control indicator system. K. Wilde. Re19,039; Jan. 2.
Remote control system. F. W. Schramm. 1,941,627; Jan. 2.
Repeat motion, Mechanism for radio-operated. C. B. Mirick. 1,941,615; Jan. 2.
Resilient wheel. L. W. Blackwood. 1,942,018; Jan. 2.
Resins, Production of. E. L. Cline. 1,942,201; Jan. 2.
Resonance in a crystal resonator, Means to indicate. W. Runge. 1,941,581; Jan. 2.
Reversing mechanism. W. C. Ware and C. J. Robertson. 1,942,318; Jan. 2.
Road building machine. H. R. Miller. 1,942,034; Jan. 2.
Road-grading machine. C. A. Gustafson. 1,941,833; Jan. 2.
Rod handling apparatus. K. D. Fuller. 1,942,144; Jan. 2.
Rod weeder. F. T. Court, W. Christensen, and C. E. Johnson. 1,941,539; Jan. 2.
Roller abstractor. G. F. Putnam. 1,941,756; Jan. 2.
Roller bearing, Double row. E. G. Boden. 1,941,460; Jan. 2.
Roller head with endless belts for spinning machines. C. Gegauff. 1,942,329; Jan. 2.
Rope, Carrying. G. Zapf. 1,941,964; Jan. 2.
Ropes, Mechanism for manufacturing tensionless low-twist wire. H. Schmitz. 1,942,218; Jan. 2.
Rotary pump. L. R. Leveen. 1,942,064; Jan. 2.
Rotator. R. F. Cohn. 1,942,202; Jan. 2.
Rotenone from plant material, Extracting. H. A. Jones. 1,942,104; Jan. 2.
Routing machines, Attachment for. S. W. Small. 1,941,629; Jan. 2.
Rubber spring. W. H. Mussey. 1,941,995; Jan. 2.
Rule, Slide. F. Wömpner. 1,942,349; Jan. 2.
Sanitary appliance. M. E. Rabell. 1,941,717; Jan. 2.
Sash construction, Window. F. Pickel and W. von Poelgeest. 1,941,716; Jan. 2.
Sash, Store front. A. N. McDonald. 1,941,570; Jan. 2.
Sash, Window. D. E. Ross. 1,942,125; Jan. 2.
Saw-filing device. B. R. Andrus. 1,942,016; Jan. 2.
Scale. P. M. Fontaine. 1,941,981; Jan. 2.
Scale, Weighing. H. W. Hem. 1,941,834; Jan. 2.
Scale, Weighing. D. D. Myers and S. N. Hurt. 1,941,849; Jan. 2.
Scanning method and apparatus. D. W. Short. 1,941,628; Jan. 2.
Scissors and manufacturing the same. J. Brangs, jr. 1,942,324; Jan. 2.
Screen: *See*—
Window screen.
Screen. O. J. Mills and W. G. Webb. 1,942,303; Jan. 2.
Screen and table, Convertible. E. F. O. Reller. 1,941,579; Jan. 2.
Screen for motion-picture apparatus, Safety. H. C. Wellman. 1,942,230; Jan. 2.
Scrubbing machine. N. Janchan. 1,941,690; Jan. 2.
Seal for bottles, Hermetic. N. Ito. 1,942,102; Jan. 2.
Seal for bottles, Hermetic. C. Obta. 1,941,712; Jan. 2.
Sealing machines, Device for. R. M. Zimber and L. A. Hawthorne. 1,942,042; Jan. 2.
Seamer, Double. W. Cameron. 1,941,972; Jan. 2.
Seat: *See*—
Vehicle seat.
Seat attachment for dental chairs and the like. B. J. Martin. 1,941,907; Jan. 2.
Secretary. F. M. McClure. Des. 91,298; Jan. 2.
Seepage joint. E. W. N. Boosey. 1,941,537; Jan. 2.
See-saw swing. W. Booth. 1,941,824; Jan. 2.
Self-closing valve. A. V. Nielsen. 1,941,711; Jan. 2.
Self-lubricating valve. J. M. LeDuc. 1,942,031; Jan. 2.
Self-sealing tube. P. C. Wieland. 1,941,520; Jan. 2.
Semitrailer. C. Erskine. 1,941,669; Jan. 2.
Separator: *See*—
Cream separator.
Separator. S. G. Sylvan. 1,941,449; Jan. 2.
Server, Liquid refreshment. G. E. Wehrenberg. Des. 91,286; Jan. 2.
Service station. H. O. Alden. Des. 91,291; Jan. 2.

Sewing machine. H. F. Gruman. 1,941,748; Jan. 2.
Sewing machine. F. B. Keall. 1,941,942; Jan. 2.
Sewing machine. F. Keall and H. E. Elliott. 1,941,943; Jan. 2.
Sewing machine. J. M. Washburn. 1,941,452; Jan. 2.
Sewing-machine attachment. O. Goeman. 1,941,858; Jan. 2.
Sewing machine, Buttonhole. J. Pikul. 1,941,620; Jan. 2.
Sewing machine, Single thread. M. McCann. 1,941,481; Jan. 2.
Shaft and applying noncorrosive metallic sheathing thereto. L. E. Mylting. 1,942,304; Jan. 2.
Sharpener, Pencil. C. P. Bobland. 1,941,823; Jan. 2.
Shaving apparatus, Power operated. L. Scruggs. 1,941,583; Jan. 2.
Sheaf, Spirally-bound. S. Groener. 1,942,026; Jan. 2.
Sheet winding machine. G. E. Gibbs. 1,942,357; Jan. 2.
Sheeting, Composite. H. E. Holcomb. 1,941,985; Jan. 2.
Shirt pressing machine. T. H. McGowan. 1,942,254; Jan. 2.
Shock absorbing mechanism. H. T. Krakau. 1,942,175; Jan. 2.
Shoe. M. Colavito and J. S. Merenna. 1,941,853; Jan. 2.
Shoe. C. F. and F. A. Rohn. 1,942,001; Jan. 2.
Shoe lace clasp. R. Bertsch. 1,941,654; Jan. 2.
Showcase. J. Robeck. 1,942,124; Jan. 2.
Shutter control system for photographic sound apparatus, Dual. F. H. Owens. 1,942,067; Jan. 2.
Shutter for radiator enclosures. W. Lloyd. 1,941,846; Jan. 2.
Sifter, Cork. J. D. Elder. 1,941,883; Jan. 2.
Signal: *See*—
Traffic signal. Wind signal.
Signaling device. A. Zeno. 1,942,268; Jan. 2.
Silicon and high manganese steel, Producing high. A. C. Jones. 1,941,556; Jan. 2.
Sleeve for printing press paper rolls. W. Schoultheis. 1,941,495; Jan. 2.
Slicing machine. W. J. Barnes and H. G. Winkler. 1,941,532; Jan. 2.
Slip and making same. J. M. Sumner. 1,941,959; Jan. 2.
Slip clutch. T. W. Paul. 1,942,217; Jan. 2.
Slug casting machine. S. Holt. 1,941,748; Jan. 2.
Smoke eliminator and fuel economizer. W. E. Frost. 1,941,936; Jan. 2.
Socket for electric lamps, Rotary. H. F. Teichmann. 1,942,073; Jan. 2.
Socket, Pull. M. N. Russell. 1,941,721; Jan. 2.
Socket, Separable snap fastener. E. D. Janes. 1,942,171; Jan. 2.
Socket wrench. S. Mandl. 1,941,565; Jan. 2.
Soft X-ray tube. C. M. Slack. 1,942,007; Jan. 2.
Sound-controlling device for talking picture apparatus. F. H. Owens. 1,942,068; Jan. 2.
Sound records, Recording and reproducing photographic. F. H. Owens. 1,942,066; Jan. 2.
Sound reproducers, Making. P. L. Jensen. 1,941,476; Jan. 2.
Sound reproducers, Making magnetic. P. L. Jensen. 1,941,477; Jan. 2.
Sound unit. A. L. Abrahams. 1,942,776; Jan. 2.
Spar, Decolorizing heavy. M. Schlechel. 1,941,626; Jan. 2.
Spark plug. P. J. Fitzgerald. 1,942,242; Jan. 2.
Spectacle frame. G. E. Nerney. Des. 91,279; Jan. 2.
Speed control device for movable grids. C. J. Larsen. 1,941,989; Jan. 2.
Spindle, Cork covered. H. E. Collins. 1,941,738; Jan. 2.
Sponge holder. J. D. Garvey. 1,941,550; Jan. 2.
Spoon or similar article. J. R. Price. Des. 91,281; Jan. 2.
Spraying device. C. Iddings. 1,941,898; Jan. 2.
Spring: *See*—
Rubber spring.
Spring device, Friction. O. R. Wikander. 1,941,521; Jan. 2.
Spring mechanism. E. L. Bronstien. 1,941,657; Jan. 2.
Sprinkler. W. F. Barrington. 1,942,271; Jan. 2.
Sputum cup, Sanitary and antiseptic. M. W. St. John. 1,941,635; Jan. 2.
Stabilizer for car trucks. E. H. Schmidt. 1,942,188; Jan. 2.
Stand: *See*—
Display stand.
Electrolysis apparatus stand.
Staples in coherent strips, Apparatus for producing wire. O. Kleinschmit. 1,942,249; Jan. 2.
Starter, Engine. R. P. Lansing. 1,942,107; Jan. 2.
Staybolt cap removing tool. G. H. Gjertsen. 1,941,551; Jan. 2.
Steam boiler. A. Huet. 1,941,686; Jan. 2.
Steam boiler. J. W. Rudder. 1,942,257; Jan. 2.
Steel, Free scaling and free machining. H. J. French and J. W. Sands. 1,941,547; Jan. 2.
Steel manufacture. W. H. Lewis. 1,941,562; Jan. 2.
Steel, Treating. C. I. Justheim. 1,942,173; Jan. 2.
Steering and stabilizing construction for individually sprung wheels. E. C. Fink. 1,941,673; Jan. 2.
Steering mechanism. J. Speed. 1,942,263; Jan. 2.
Step control system. F. Filio. 1,941,546; Jan. 2.
Steriliser. G. J. Dyckes. 1,942,051; Jan. 2.
Stock receptacle. M. E. Hill. 1,941,746; Jan. 2.
Stocking blank for manufacturing stockings, Method and double. J. L. Getaz. 1,942,331; Jan. 2.
Stoker ash dumping mechanism. W. E. De Voe. 1,941,791; Jan. 2.
Stool, Revoluble. P. Madsen. 1,942,033; Jan. 2.
Storage bag. A. Stone. 1,942,224; Jan. 2.
Storage battery. G. C. Appel, R. W. Vicarey, and J. D. Wanvig, jr. 1,942,351; Jan. 2.
Stove drawer. C. M. Dibble. 1,941,541; Jan. 2.
Strap release for casket and burial vault lowering devices. W. A. Johnsen. 1,941,605; Jan. 2.
Stream line wire wrench. F. A. Vols. 1,942,316; Jan. 2.
Stretcher, Curtain. A. K. Mitchell, jr. 1,941,810; Jan. 2.
String galvanometer. F. O. Hindle. 1,942,027; Jan. 2.
Strut for stagings, Adjustable. J. Dietrich. 1,942,088; Jan. 2.
Submarine mine-layer. F. Martinoli and E. Gerolimich. 1,941,949; Jan. 2.
Suction cleaner. F. Riebel, jr. 1,941,758; Jan. 2.
Sugar manufacture. A. W. Bull and E. R. Ramsey. 1,941,461; Jan. 2.
Sulphur compounds to elementary sulphur or hydrogen sulphide, Reducing. C. G. Maier. 1,941,702; Jan. 2.
Sulphur, Recovery of. L. Rosenstein. 1,941,623; Jan. 2.
Support: *See*—
Pipe support.
Supporting structure for use in the production of floors and the like. H. E. Marks and W. D. Jarvis. 1,941,566; Jan. 2.
Surface condenser. K. Baumann. 1,941,650; Jan. 2.
Surge currents, Method of and instrument for measuring. C. M. Foust. 1,942,384; Jan. 2.
Surge currents, Method of and instrument for measuring. C. M. Foust and H. P. Knebnl. 1,942,052; Jan. 2.
Surge currents, Method of and instrument for measuring. R. G. Lorraine. 1,942,065; Jan. 2.
Suspender, Sock. H. Lofler. 1,941,699; Jan. 2.
Suspension. A. Dubonnet. 1,941,879; Jan. 2.
Switch: *See*—
Lighting switch. Time controlled switch.
Mercury switch. Time switch.
Thermostatic switch. Vehicle signal switch.
Synchronous motor, Self-starting. H. E. Warren. 1,942,076; Jan. 2.
Table: *See*—
Folding table. Obstetrical table.
Table. U. Mochi. Des. 91,278; Jan. 2.
Table. C. L. Moorman. 1,941,483; Jan. 2.
Table for casting machines, Plate depositing. H. Frits. 1,942,243; Jan. 2.
Table or similar article, Toilet. H. H. Koster. Des. 91,272; Jan. 2.
Tank: *See*—
Glass tank.
Tape easel for page printers. J. W. Long and T. G. Collings. 1,941,904; Jan. 2.
Tapping apparatus. E. Zahm. 1,941,507; Jan. 2.
Tar and recovering oils with apparatus therefor, Process of distilling. S. P. Miller. 1,942,374; Jan. 2.
Tar distillation. J. M. Weiss. 1,942,195; Jan. 2.
Tar, Distilling. S. P. Miller. 1,942,371; Jan. 2.
Tar or pitch, Distillation of. S. P. Miller. 1,942,372; Jan. 2.
Teeth, False. H. C. Berry. 1,941,735; Jan. 2.
Temperature construction mold. B. Harig. 1,942,098; Jan. 2.
Temperature control device, Automatic. E. Romanelli. 1,942,002; Jan. 2.
Temple hinge or mounting for spectacles. R. J. Page. 1,941,575; Jan. 2.
Test block for meters. A. R. Rutter and W. G. Mylius. 1,942,258; Jan. 2.
Testing apparatus for train control devices. H. Wickson. 1,942,157; Jan. 2.
Testing device. E. G. Thomas. 1,941,818; Jan. 2.
Testicular extract and making the same. F. C. Koch, L. C. McGee, and T. F. Gallagher. 1,941,900; Jan. 2.
Textile fabric or similar article. L. Derriey. Des. 91,293–4; Jan. 2.
Textile fabric or similar article. W. Willheim. Des. 91,301–7; Jan. 2.
Textile material and product, Treating. H. A. Lubs and H. W. Walker. 1,941,991; Jan. 2.
Textile materials, Retting process of. J. A. M. Faut. 1,941,793; Jan. 2.
Theatrical effects, Apparatus for producing. P. S. Edwards and C. D. Barbulesco. 1,941,740; Jan. 2.
Thermostat. J. H. Grayson. 1,941,795; Jan. 2.
Thermostatic relay. A. F. Masury. 1,941,704; Jan. 2.
Thermostatic switch. F. S. Denison and D. G. Taylor. 1,941,540; Jan. 2.
Thermostatic switch. D. G. Taylor. 1,941,502; Jan. 2.
Thongs of leather or other material, Machine for cutting or unrolling. H. H. Rozier. 1,942,365; Jan. 2.
Threads, Determining the evenness of textile. P. A. Schultz. 1,941,917; Jan. 2.
Ticket holder. C. O. Feddern. 1,941,979; Jan. 2.
Tie. I. J. Du Bon. 1,942,089; Jan. 2.
Tile, Cooling composition. G. P. Heppes. 1,942,060; Jan. 2.
Time controlled switch. L. Dekany. 1,941,828; Jan. 2.
Time switch. G. R. Townsend. 1,942,074; Jan. 2.
Tire cover and luggage carrier, Combination. G. A. Lyon. 1,941,564; Jan. 2.
Tobacco stringing lath holder. E. Wilkenson. 1,941,728; Jan. 2.
Toilet paper holder. M. Reynolds. Des. 91,282; Jan. 2.

Tool: *See*—
Machine tool. Staybolt cap removing tool.
Tool clamp. W. A. Kelsey. 1,941,840; Jan. 2.
Toothpowder dispenser, Portable hand. A. Carley, A. Schmidt, and K. Wunsch. 1,941,786; Jan. 2.
Torch. A. J. and I. F. Fausek. 1,941,467; Jan. 2.
Torch, Blow. F. T. Potter. 1,941,755; Jan. 2.
Torch, Welding. J. L. Anderson. 1,942,352; Jan. 2.
Torque stabilizer spring. B. A. Swennes. 1,941,763; Jan. 2.
Towel-dispensing apparatus. A. Card. 1,941,826; Jan. 2.
Toy. C. Linden. Des. 91,275; Jan. 2.
Toy. D. L. Shikaly. 1,942,006; Jan. 2.
Track circuits and relay therefor, Railway. O. S. Field. 1,942,141; Jan. 2.
Track diagram for railway systems, Animated. H. O. Snyder. 1,942,154; Jan. 2.
Traction device. C. F. Erickson. 1,941,935; Jan. 2.
Traffic control system. P. Thomas. 1,942,266; Jan. 2.
Traffic controlling system, Centralized. C. S. Bushnell. 1,942,135; Jan. 2.
Traffic signal. A. O. Price. 1,942,306; Jan. 2.
Train control. O. H. Dicke and N. D. Preston. 1,942,138; Jan. 2.
Train control, Automatic. D. H. Schweyer. 1,941,497; Jan. 2.
Transfer. W. S. Lawrence. 1,941,697; Jan. 2.
Transformer. B. C. von Platen. 1,941,644; Jan. 2.
Transmission and control device, Remote. L. A. B. Rondot. 1,941,955; Jan. 2.
Transmission line. A. O. Austin. 1,941,731; Jan. 2.
Transmission lines, Diverting energy from. A. O. Austin. 1,941,732; Jan. 2.
Trap: *See*—
Insect trap. Well trap.
Tray, Ash. F. O. Aylor. Des. 91,260; Jan. 2.
Tray, Serving. T. G. Smullin. 1,942,190; Jan. 2.
Treatment with solvents, Apparatus for. C. F. Dinley. 1,942,355; Jan. 2.
Trellis. V. V. Tincu. 1,941,517; Jan. 2.
Trim panels, Securing. B. C. Place. 1,942,119; Jan. 2.
Trimmer, Lawn edge. F. Friedheim. 1,941,548; Jan. 2.
Trimming mechanism of typographical line-casting machines. C. A. Albrecht. 1,941,730; Jan. 2.
Truck body and heating same. R. Ferwerda. 1,942,207; Jan. 2.
Truck, Industrial. M. S. Towson. 1,941,767; Jan. 2.
Truck, Lift-hand. A. Bizzarri. 1,942,272; Jan. 2.
Trucks and similar vehicles into winches, Device for transforming motor. M. Landrin. 1,941,945; Jan. 2.
Trunk, Automobile. A. A. Hanson. 1,941,860; Jan. 2.
Tube: *See*—
Collapsible tube. Soft X-ray tube.
Photo-electric tube. X-ray tube.
Self-sealing tube.
Tubes, Apparatus for the lighting of luminescent. D. P. A. A. Kayser. 1,942,105; Jan. 2.
Tubes, Process and machine for manufacturing. E. Pump. 1,941,953; Jan. 2.
Tuning arrangement. O. E. Dow. 1,941,542; Jan. 2.
Turret support for lubricating apparatus. F. S. Barks. Des. 91,263; Jan. 2.
Typewriting machine. J. L. Petz. 1,942,305; Jan. 2.
Typewriting machine. J. A. B. Smith. 1,942,008; Jan. 2.
Typographical composing machine. H. A. Burt. 1,941,737; Jan. 2.
Typographical line-casting machine. E. Gayter. 1,941,741; Jan. 2.
Universal joint. C. E. Swenson. 1,941,764; Jan. 2.
Utensil, Smoker's. J. E. Neahr. 1,941,617; Jan. 2.
Vacuum cleaner attachment for automobiles. W. L. Grathwol. 1,942,358; Jan. 2.
Valuable products from vegetable substances, Producing. E. L. Rinman. 1,941,760; Jan. 2.
Valve: *See*—
Control and gate valve. Self closing valve.
Drain valve. Self lubricating valve.
Dual action deluge valve.
Valve. J. A. Spencer. 1,942,009; Jan. 2.
Valve for flow lines, Pressure relieving check. J. H. Viele and C. W. Swift. 1,942,313; Jan. 2.
Valve for oil wells, Flow. C. H. Boring. 1,941,851; Jan. 2.
Valve for toilet tanks. P. C. Gannon. 1,941,549; Jan. 2.
Valve grinding machine. E. F. Schwakopf. 1,941,918; Jan. 2.
Valve mechanisms, Mechanism for controlling engine. R. H. Shepard. 1,942,189; Jan. 2.
Valve shield. T. R. Burke. 1,941,596; Jan. 2.
Vapor rectifier for heavy currents, Metal. F. B. von Kleist. 1,942,317; Jan. 2.
Vaporizer for internal combustion engines. F. H. Roth. 1,941,761; Jan. 2.
Vegetable fiber product of high strength and making same, Hard. R. M. Boehm. 1,941,536; Jan. 2.
Vehicle control system, Motor. E. Fleischhammer. 1,941,887; Jan. 2.
Vehicle, Motor. A. Moorhouse. 1,942,182; Jan. 2.
Vehicle, Motor. M. Tibbetts. 1,942,225; Jan. 2.
Vehicle seat. L. R. Smelker. 1,942,070; Jan. 2.
Vehicle signal switch. A. C. Kostka. 1,942,297; Jan. 2.
Vehicles, Mechanism for controlling delivery. E. R. Maurer and D. M. Ferguson. 1,942,181; Jan. 2.
Vending machine. A. D. Antoine and A. E. Gebert. 1,941,781; Jan. 2.
Vest, Trouser supporting. H. Rosenthal. 1,942,151; Jan. 2.
Vulcanization. L. G. Jenness. 1,941,691; Jan. 2.
Wall board joint. D. McChesney. 1,942,392; Jan. 2.
Wall plug. J. J. Rawlings. 1,942,256; Jan. 2.
Washing machine. A. B. Miller. 1,941,706; Jan. 2.
Water meter. G. B. Bassett. 1,941,649; Jan. 2.
Water system, Pneumatic. G. L. Thom. 1,941,766; Jan. 2.
Water tight bag. D. Johaneson. 1,942,246; Jan. 2.
Waxlike substances and preparing the same. D. K. Tressler and C. Schnde. 1,941,639; Jan. 2.
Weaving. O. Sauer. 1,942,152; Jan. 2.
Web cutting and sheet forwarding mechanism. C. G. Quick and W. A. Whitbead. 1,941,754; Jan. 2.
Web measuring and feeding device, Automatic. J. J. Cavagnaro. 1,941,597; Jan. 2.
Weight of glass articles made by the gob feed automatic machine process, Apparatus for automatically controlling the. K. M. Henry and B. A. Noble. 1,941,552; Jan. 2.
Welding apparatus. R. A. Gilbert. 1,942,055; Jan. 2.
Well trap. A. F. O'Connor. 1,941,814; Jan. 3.
Wheel: *See*—
Resilient wheel.
Wheels, Manufacture of wire. C. L. Eksergian. 1,942,091; Jan. 2.
Wind signal. H. Tyler. 1,942,039; Jan. 2.
Winding machine. E. R. Swanson. 1,941,724; Jan. 2.
Window and door adjusting and holding mechanism. J. G. Shodron, J. B. Olson, and C. S. Wandschneider. 1,941,762; Jan. 2.
Window back rest. L. Appugliese. 1,942,233; Jan. 2.
Window balancing device. W. Young. 1,942,320; Jan. 2.
Window construction. E. Brust. 1,942,200; Jan. 2.
Window lock fastener. S. Segal. 1,942,219; Jan. 2.
Window screen. L. Renzetti. 1,942,308; Jan. 2.
Windshield heater. E. C. Horton and H. Hueber. 1,942,359; Jan. 2.
Windshield warmer. A. D. Taggart. 1,941,765; Jan. 2.
Windshields or the like, Device for heating. H. M. Gray. 1,942,057; Jan. 2.
Wiper, Window shield. A. Pisacano. 1,942,184; Jan. 2.
Wire into lengths, Apparatus for cutting. K. Setoguchi and M. Sakural. 1,942,069; Jan. 2.
Wire spring fabric. C. J. Elder. 1,941,882; Jan. 2.
Wood barking machine. J. Gruber. 1,942,095; Jan. 2.
Work supporting and guarding means. E. Sommer. 1,942,128; Jan. 2.
Wound treating material. K. A. Hofmann. 1,942,061; Jan. 2.
Wrench: *See*—
Socket wrench. Stream line wire wrench.
Wringer and casing for washing machines, Combined. C. D. Ryan. Des. 91,283; Jan. 2.
Wringer head for washing machines. L. Van A. Guild. Des. 91,267; Jan. 2.
X-ray tube. L. E. Ehrke. 1,941,975; Jan. 2.
X-ray unit, Shockproof. C. Fayer. 1,941,978; Jan. 2.
Zinc oxide, Manufacture of. B. N. McCraven. 1,941,569; Jan. 2.

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37: 1,941,527
58: 1,941,622
108: 1,941,465
171: 1,941,856
287— 92: 1,941,849
290— 4: 1,941,845
38: 1,941,698
55: 1,941,611
292— 54: 1,941,742
87: 1,941,641
136: 1,941,576
142: 1,941,459
251: 1,942,219
293— 54: 1,941,797
294— 67: 1,941,582
296— 26: 1,942,237
30: 1,942,314
44: 1,942,225
298— 1: 1,942,207
11: 1,942,319
299— 67: 1,942,271
95: 1,941,898
302— 28: 1,941,471
50: 1,941,572
1,941,573
53: 1,942,379
303— 21: 1,941,857
304— 24: 1,942,233
305— 10: 1,942,337
1,942,338
308— 2: 1,941,824
36: 1,942,194
40: 1,941,486
77: 1,942,101
79: 1,941,780
81: 1,941,788
86: 1,941,946
172: 1,942,077
214: 1,941,460
239: 1,941,708
309— 22: 1,942,020
312— 37: 1,942,292
88: 1,941,826
118: 1,942,124
183: 1,941,906

U. S. GOVERNMENT PRINTING OFFICE: 1939

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A Pem Co. (See Pemberton, Harold J.)
Advance Car Mover Company Inc., Appleton, Wis. Lever arrangement for moving railway cars. Serial No. 343,151; Jan. 9. Class 23.
Alexander, Andrew N., doing business as A. Alexander, New York, N. Y. Flavoring oils, extracts and compounds, syrups, marmalades, etc. Serial No. 331,941; Jan. 9. Class 46.
Alexander Doll Co. (See Behrman, Bertha.)
Allen, Walter T., doing business as Allen Bros., Fort Worth, Tex. Cigars. Serial No. 344,079; Jan. 9. Class 17.
Allied Battery Corporation, Dayton, Ohio. Storage batteries. Serial No. 344,035; Jan. 9. Class 21.
American Brewery, Incoprorated, Baltimore, Md. Malt beverages. Serial No. 344,310; Jan. 9. Class 48.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. Serial No. 343,634; Jan. 9. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. Serial No. 343,670; Jan. 9. Class 49.
American Medicinal Spirits Company, The, Lonisville, Ky. Whiskey. Serial Nos. 344,311–12; Jan. 9. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. Serial No. 344,314; Jan. 9. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. Serial No. 344,375; Jan. 9. Class 49.
American-National Company, The, Toledo, Ohio. Juvenile vehicles. Serial No. 343,815; Jan. 9. Class 22.
American Wine Association, Chicago, Ill. Wine. Serial No. 344,315; Jan. 9. Class 47.
Andersen & Bruuns Fabriker A/S, Copenhagen, Denmark. Bottle capsules and closures. Serial No. 341,386; Jan. 9. Class 50.
Anderson, Dobson & Co. Ltd., London, England. Wines. Serial No. 344,377; Jan. 9. Class 47.
Arrow Importing Co. (See Stern Hat Company, The.)
Astogril, Inc., Cleveland, Ohio. Broiling devices. Serial No. 342,467; Jan. 9. Class 13.
Athletic Emblem Corporation, New York, N. Y. Athletic insignias and letters, pennants, and emblems. Serial No. 342,631; Jan. 9. Class 50.
Atlas Sales Corporation, Los Angeles, Calif. Fissure sealing and drilling compounds for well holes. Serial No. 382,672; Jan. 9. Class 12.
Auto Spoon Co. (See Inocencio, Felipe.)
Baker Oil Tools, Inc., Huntington Park, Calif. Tools and equipment. Serial Nos. 343,635–6; Jan. 9. Class 23.
Behrman, Bertha, doing business as Alexander Doll Co., New York, N. Y. Dolls. Serial No. 344,080; Jan. 9. Class 22.
Bekas, Christ J., New York, N. Y. Asthma medicine. Serial No. 337,503; Jan. 9. Class 6.
Bellin, Herman D., New York, N. Y. Hats, caps, bonnets, and berets. Serial No. 341,947; Jan. 9. Class 39.
Benz, George, Sons, Inc., St. Paul, Minn. Wine. Serial No. 343,843; Jan. 9. Class 47.
Benz, George, Sons, Inc., St. Paul, Minn. Whisky. Serial No. 343,845; Jan. 9. Class 49.
Berkander, George F., Providence, R. I. Jewelry. Serial No. 344,036; Jan. 9. Class 28.
Bernard, Josette, Coral Gables, Fla. Brassière. Serial No. 342,517; Jan. 9. Class 39.
Bisson, Henry A., Berlin, N. H. Wiping cloths, towels, and napkins. Serial No. 344,254; Jan. 9. Class 37.
Blackman & Blackman, Inc., doing business as Premo Pharmaceutical Laboratories, New York, N. Y. Soporific, sedative, and analgesic medicine. Serial No. 343,672; Jan. 9. Class 6.
Blue Eagle Oil Company, Tyler, Tex. Gasoline and oil. Serial No. 343,638; Jan. 9. Class 15.
Blue Ridge Coal Corp., New York, N. Y. Combination of a fuel consisting of a petroleum residue and bituminous coal. Serial No. 343,157; Jan. 9. Class 1.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. Serial No. 343,200; Jan. 9. Class 42.
Böhme, H. Th., Aktiengesellschaft, Chemnitz, Germany. Soap and soap preparations for the textile industry. Serial Nos. 342,347–8; Jan. 9. Class 4.
Bond, W. G., Inc., Baltimore, Md. Gin. Serial No. 344,562; Jan. 9. Class 49.
Boster, Murray, doing business as Boster Laboratories, Cincinnati, Ohio. Mouth wash. Serial No. 342,518; Jan. 9. Class 6.
Bourjois, Inc., New York, N. Y. Powder puffs. Serial No. 343,952; Jan. 9. Class 29.
Bourjois, Inc., New York, N. Y. Powder puffs. Serial No. 343,954; Jan. 9. Class 29.
Bourjois, Inc., New York, N. Y. Powder puffs, brushes. Serial No 343,956; Jan. 9. Class 29.
Bourjois, Inc., New York, N. Y. Powder puffs. Serial No. 343,958; Jan. 9. Class 29.
Bourjois, Inc., New York, N. Y. Tissue paper for skin cleaning purposes. Serial No 344,081; Jan. 9. Class 37.
Bourjois, Inc., New York, N. Y. Tissue paper used for skin cleaning purposes. Serial No. 344,083; Jan. 9. Class 37.
Brauerei J. G. Reif A.G., Nuremberg, Germany. Beer. Serial No. 340,571; Jan. 9. Class 48.
Breon, George A., & Company, Incorporated, Kansas City, Mo. Medicinal preparations. Serial No. 343,143; Jan. 9. Class 6
Briar Creek Distilling Co., New York, N. Y. Whiskey. Serial No. 344,084; Jan. 9. Class 49.
Bright, T. G., & Co. Limited, Stamford, Ontario, Canada. Wine. Serial Nos. 342,870–3; Jan. 9. Class 47.
Brimer, Thomas J., Chicago, Ill. Air-conditioning units. Serial No. 344,039; Jan 9. Class 34.
British Distillers Corporation of New York, New York, N. Y. Wines. Serial No. 344,041; Jan. 9. Class 47.
Brown Durrell Co., Boston, Mass., and New York, N. Y. Hosiery Serial No. 344,085; Jan. 9. Class 39.
Brown, Robert, Limited, Glasgow, Scotland. Whisky. Serial No. 344,220; Jan. 9. Class 49.
Brown, Walter L., Sawtelle, Calif. Wall covering. Serial No. 343,581; Jan. 9. Class 12
Bushakra, Fouad, doing business as Powrlube Co. of N. J., Newark, N. J. Colloidal graphite. Serial No. 342,686; Jan. 9. Class 15
California Notion and Toy Company, Ltd., San Francisco, Calif. Lotions, creams, pomades, etc. Serial No. 340,913; Jan. 9. Class 6.
California Wire Cloth Company, Oakland, Calif. Wire stucco netting. Serial No. 342,058; Jan 9. Class 12.
Califruit Wineries, Inc., New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 343,960; Jan. 9. Class 49.
Callis & Hammond, Baltimore, Md. Whiskey. Serial No 343,851; Jan. 9. Class 49.
Callis & Hammond, Baltimore, Md. Whiskey. Serial No. 343,853; Jan. 9. Class 49.
Campana Corporation, Batavia Ill. Astringents, astringent cerates, bleach and beauty creams, etc Serial No. 343,024; Jan. 9. Class 6.
Campana Corporation, Batavia, Ill. Creams for shaving. Serial No. 343,026; Jan. 9. Class 4.
Carp & Co's Handelmaatschappij N. V., Amsterdam, Netherlands Cooling and freezing surfaces. Serial No. 340,638; Jan. 9. Class 31.
Carteret, Marcel, doing business as Laboratories Carteret, Paris, France. Medicine. Serial No. 343,491; Jan. 9. Class 6.
Cella Brothers, Inc., New York, N. Y. Wines. Serial No. 344,318; Jan. 9. Class 47.
Certified Extracts, Inc., New York, N. Y. Powder preparation used in ice cream. Serial No. 340,308; Jan. 9 Class 46.
Chaco Manufacturing Co. (See Collender, Charles.)
Chancellor Cocktail Co., The. (See Herbst, Solomon C.)
Cincinnati Advertising Products Co., The, Cincinnati, Ohio. Glass tiles. Serial No 342,386; Jan. 9. Class 12.
Clean Surface Products Company, Chicago, Ill. Polishes. Serial No. 317,024; Jan. 9. Class 16.
Colbert, Claude C., doing business as C. C. Colbert & Company, Okolona, Miss. Canned peaches, pears, apricots, etc. Serial No. 330,782; Jan. 9. Class 46.
Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Tonic stimulants. Serial No. 339,491; Jan. 9. Class 6.
College Inn Food Products Co., Chicago, Ill. Tomato juice and tomato juice cocktail. Serial No. 318,351; Jan 9. Class 46.
Collender, Charles, doing business as Chaco Manufacturing Co., New York, N. Y. Bathroom wash pads. Serial Nos. 344,174–5; Jan. 9. Class 29.
Col-Tex Refining Company, Wilmington, Del., and Oklahoma City, Okla. Gasoline. Serial No. 328,722; Jan 9. Class 15.
Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, etc. Serial Nos. 343,961–2; Jan. 9. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, etc. Serial Nos. 343,964–6; Jan. 9. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, etc. Serial Nos. 343,969–71; Jan. 9. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, etc. Serial Nos. 343,973–5; Jan. 9. Class 49
Cork Distilleries Company Limited, Morrisons Island, Cork, Ireland. Whisky. Serial No. 341,950; Jan. 9. Class 49.
Cornell Tire & Rubber Co. (See Pep Boys—Manny, Moe & Jack, The)
Cross Salve Company, The, Marion, Ky. Healing salve Serial No. 343,598; Jan. 9. Class 6.
Cummings, John, doing business as Cummings Drug Co., Chicago, Ill. Reducing tablets. Serial No. 342,529; Jan. 9. Class 6.
D'Accardo, Joseph, doing business as Hi-Jump Fruit Co., Modesto, Calif. Fresh grapes, fruits, and vegetables. Serial No. 343,914; Jan. 9. Class 46.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Daisy Electrical Manufacturing Corporation, Brooklyn, N. Y. Electrically operated automobile horns. Serial No. 342,340; Jan. 9. Class 21.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Perfumes, toilet waters, powders, etc. Serial No. 340,435; Jan. 9. Class 6.
Danciger Oil & Refining Company, Tulsa, Okla. Gasoline. Serial No. 339,027; Jan. 9. Class 15.
De Lemos, Antonio T., Mount Vernon, N. Y. Phonograph records. Serial No. 344,259; Jan. 9. Class 36.
Dollar Steamship Lines Inc., Ltd., San Francisco, Calif. Playing cards. Serial No. 342,342; Jan. 9. Class 22.
Dowling Brothers Distilling Co., Incorporated, Burgin, Ky. Whiskey. Serial No. 343,978; Jan. 9. Class 49.
Durande, Albert, Inc., New York, N. Y. Pine oil massage and shampoo. Serial No. 341,725; Jan. 9. Class 6.
E. A. Laboratories, Inc., Brooklyn, N. Y. Electrically operated horns. Serial No. 295,889; Jan. 9. Class 21.
E. and T. Fairbanks and Company, St. Johnsbury, Vt. Weighing machines and parts thereof. Serial No. 342,003; Jan. 9. Class 26.
Eastern Distillers Syndicate. (See Finch, Jos. S., & Company.)
El Dorado Refining Company, The, El Dorado, Kans. Gasoline. Serial No. 342,967; Jan. 9. Class 15.
Electro-Ray Sales Co. (See Meyer, Herman.)
Emery & Ross. (See Ross, Agnes T.)
Esmond Mills, The, New York, N. Y. Cotton piece goods. Serial No. 343,441; Jan. 9. Class 42.
Exshaw, John, & Co., Bordeaux, France. Brandy. Serial No. 344,226; Jan. 9. Class 49.
Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Pencils, erasers, and rubber bands. Serial No. 344,261; Jan. 9. Class 37.
Fannee Chocolate Co. (See Golub, Joseph.)
Feder-Gregg Shoe Company, The, Cincinnati, Ohio. Boots, shoes, and slippers. Serial No. 343,644; Jan. 9. Class 39.
Feldman Beverage Co., Inc., New York, N. Y. Malt beverages. Serial No. 340,643; Jan. 9. Class 48.
Felton & Son, Incorporated, Boston and South Boston, Mass. Rum. Serial No. 344,087; Jan. 9. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, brandy, gin, and other potable distilled spirits. Serial No. 342,530; Jan. 9. Class 49.
Finch, Jos. S., & Company, doing business as Jas. E. Pepper & Co., New York, N. Y. Whiskey, gin, and other potable distilled spirits. Serial No. 343,555; Jan. 9. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 343,602; Jan. 9. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, gin and other distilled potable spirits. Serial No. 343,603; Jan. 9. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, and other potable distilled spirits. Serial No. 343,920; Jan. 9. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, and other potable distilled spirits. Serial No. 343,981; Jan. 9. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, and other potable distilled spirits. Serial No. 344,051; Jan. 9. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 344,145; Jan. 9. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, gin, and other potable distilled spirits. Serial No. 344,181; Jan. 9. Class 49.
Finch, Jos. S., & Company, doing business as Eastern Distillers Syndicate, New York, N. Y. Whiskey and potable spirits. Serial No. 344,262; Jan. 9. Class 49.
Fleshman, Grigsby J., doing business as Fleshman Footone Co., Oak Hill, W. Va. Foot lotion. Serial No. 343,504; Jan. 9. Class 6.
Flexrite Sales Company, Providence, R. I. Ophthalmic mountings. Serial No. 344,052; Jan. 9. Class 26.
Foregger Company, Inc., New York, N. Y. Resuscitation outfit. Serial No. 331,660; Jan. 9. Class 44.
Frashers, Pomona, Calif. Pictures and photographs. Serial No. 338,516; Jan. 9. Class 38.
Fredonia Products Co., Inc., Fredonia, N. Y. Wines. Serial Nos. 344,182–3; Jan. 9. Class 47.
Fresno Brewing Company, Fresno, Calif. Beer and malt beverages. Serial No. 344,143; Jan. 9. Class 48.
Frigidrinks, Inc., San Francisco, Calif. Dispenser for any beverages. Serial No. 332,116; Jan. 9. Class 23.
Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Brandy. Serial No. 343,985; Jan. 9. Class 49.
Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Brandy. Serial Nos. 344,227–8; Jan. 9. Class 49.
Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Wines. Serial No. 344,229; Jan. 9. Class 47.
Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Brandy. Serial No. 344,589; Jan. 9. Class 49.
Galveston Shrimp, Inc., Galveston, Tex. Fresh shrimp. Serial No. 339,751; Jan. 9. Class 46.
Galvin Manufacturing Company, Chicago, Ill. Radio receiving sets and parts thereof. Serial No. 343,774; Jan. 9. Class 21.
General Cable Corporation, New York, N. Y. Electrical wires and cables. Serial Nos. 344,147–50; Jan. 9. Class 21.
General Tire & Rubber Company, The, Akron, Ohio. Storage batteries. Serial Nos. 344,267–8; Jan. 9. Class 21.
Gibson, Jake, Cincinnati, Ohio. Medicinal preparation for piles. Serial No. 339,105; Jan. 9. Class 6.
Gilbey, W. & A., Limited, London, England. Wines. Serial No. 340,711; Jan. 9. Class 47.
Gilbey, W. & A., Limited, London, England. Whiskey, gins, cocktails, and liqueurs. Serial No. 340,712; Jan. 9. Class 49.
Golden State Wines, Inc., San Francisco, Calif. Wines. Serial No. 344,185; Jan. 9. Class 47.
Golf Ball, Inc., Chicago, Ill. Golf balls. Serial No. 344,152; Jan. 9. Class 22.
Golub, Joseph, doing business as Fannee Chocolate Co., Brooklyn, N. Y. Candy. Serial No. 343,505; Jan. 9. Class 46.
Great Manta Exhibition Corporation, New York, N. Y. Toys. Serial No. 343,172; Jan. 9. Class 22.
Guide Lamp Corporation, Anderson, Ind. Lamps for automobiles. Serial No. 343,989; Jan. 9. Class 21.
Handelsvennootschap onder de firma Catz & Zoon van Pekela, Groningen, Netherlands. Distilled bitters. Serial No. 339,310; Jan. 9. Class 49.
Hardie, James P., doing business as J. & W. Hardie, Edinburgh, Scotland. Whisky. Serial No. 340,352; Jan. 9. Class 49.
Hazeltine Corporation, Jersey City, N. J. Radio sets and parts thereof. Serial No. 343,991; Jan. 9. Class 21.
Health Products Corporation, Newark, N. J. Cod-liver oil concentrate. Serial No. 343,678; Jan. 9. Class 6.
Henderson, C. W., doing business as Nature Publishing Co., Minneapolis, Minn. Magazines. Serial No. 344,033; Jan. 9. Class 38.
Herbst, Solomon C., doing business as The Chancellor Cocktail Co., Milwaukee, Wis. Cocktails. Serial No. 344,276; Jan. 9. Class 49.
Hernandez, C. F., S. en C., Mexico, Mexico. Rum. Serial Nos. 341,968–9; Jan. 9. Class 49.
Hi-Jump Fruit Co. (See D'Accardo, Joseph.)
Hill, Thomson & Co., Edinburgh, Scotland, and London, England. Whiskey. Serial No. 344,275; Jan. 9. Class 49.
Hotcone Grate Company, The, Denver, Colo. Furnace and stove grates. Serial No. 342,646; Jan. 9. Class 34.
Hy'ne Company, doing business as Zenith Laboratory, Chicago, Ill. Germicide powder. Serial No. 343,611; Jan. 9. Class 6.
Inocencio, Felipe, doing business as Auto Spoon Co., Glendora, Calif. Base metal and glass table sugar dispensers. Serial No. 335,507; Jan. 9. Class 2.
Inviz-A-Grip, Los Angeles, Calif. Garters. Serial No. 343,040; Jan. 9. Class 39.
Italian Swiss Colony, San Francisco, Calif. Wines. Serial No. 344,307; Jan. 9. Class 47.
Jackson Fertilizer Company, Jackson, Miss. Fertilizers. Serial No. 344,057; Jan. 9. Class 10.
James Metal Products Company, doing business as Junior Vacuum Washer, Inc., Chicago, Ill. Laundry washing machines. Serial No. 343,828; Jan. 9. Class 24.
Johnson, S. C., & Son, Inc., Racine, Wis. Paint, undercoats, and priming coats. Serial No. 327,155; Jan. 9. Class 16.
Junior Vacuum Washer, Inc. (See James Metal Products Company.)
Karp, Joseph H., New York, N. Y. Diuretic stimulant. Serial No. 343,289; Jan. 9. Class 6.
Kearns Coal Company, The, Cincinnati, Ohio. Coal. Serial No. 343,210; Jan. 9. Class 1.
Kellogg, M. W., Co., The, New York, N. Y., and Jersey City, N. J. Articles fabricated by means of electric arc-welding. Serial No. 331,433; Jan. 9. Class 34.
Kimball, A., Company, New York, N. Y. Price tags. Serial No. 344,099; Jan. 9. Class 37.
Kitchen Products, Inc., Buffalo, N. Y. Salad dressing. Serial No. 343,777; Jan. 9. Class 46.
Knauth, George E., Reno, Nev. Magazines. Serial No. 343,687; Jan 9. Class 38.
Kolrid Oil Burner Corporation, Providence, R. I. Fluid fuel burners. Serial No. 344,194; Jan. 9. Class 34.
Kraus Bros. & Co., Incorporated, New York, N. Y. Whiskies and other potable distilled spirits. Serial No 344,335; Jan. 9. Class 49.
Krieger, Milton, New York, N. Y. Nail polish and nail-polish remover. Serial No. 343,656; Jan. 9. Class 6.
Krieg-Fink, Joseph, Company, Glen Ridge, N. J Gin. Serial No. 344,595; Jan. 9. Class 49.
Laboratories Carteret. (See Carteret, Marcel.)
Laird & Company, Scobeyville and Matontown, N. J. Brandy. Serial No. 343,073; Jan. 9 Class 49.
Larson, L. P., Jr., Company, Newport, R. I. Chewing gum. Serial No. 331,690; Jan. 9. Class 46
Laughlin, Robert T., Chicago, Ill. Beer. Serial Nos. 344,156–7; Jan. 9. Class 48.
Laughlin, Robert T., Chicago, Ill Wines. Serial Nos. 344,158–9; Jan. 9. Class 47.
Lederle Laboratories, Inc., New York, N. Y. Vaccine. Serial No. 342,132; Jan. 9. Class 6.

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PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Lewis, W. & Company, Champaign, Ill. Shoes. Serial No. 342,759; Jan. 9. Class 39.
Lo Curto, Bernardo, doing business as R. Lo Curto, New York, N. Y. Canned vegetables. Serial No. 344,197; Jan. 9. Class 46.
Lopez, R., de Heredia Vina Tondonia S. A., Madrid, Spain. Wines. Serial No. 341,839; Jan. 9. Class 47.
Maison Fromy-Rogee & Cie. (See Rogée-Fromy, Eugene.)
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk, rayon, cotton, etc., piece goods. Serial No. 343,293; Jan. 9. Class 42.
Margolis, Edward I., doing business as The L. D Margolis Co., Boston, Mass. Tea. Serial No. 339,943; Jan. 9. Class 46.
McBrady, John E., doing business as J. E. McBrady & Company, Chicago, Ill Medical herb teas. Serial No. 339,979; Jan. 9. Class 6.
McFaddin, Lawrence J., Cedar Rapids, Iowa. Prophylactic rubber articles. Serial No. 342,977; Jan. 9. Class 44.
McKay, W. B., & Co., Inc., New York, N. Y. Fabrics of silk, cotton, etc. Serial No. 343,516; Jan. 9. Class 42.
Mearl Corporation, The, Brooklyn N. Y. Pearl essence. Serial No. 342,011; Jan. 9 Class 16.
Menthosol Co. (See Tubin, Lillian S.)
Meyer, Herman, doing business as Electro-Ray Sales Co., New York, N. Y. Electrical equipments. Serial No. 341,027; Jan. 9. Class 21.
Miller Co., Inc., The, Newark, N. J. Stomach intestinal cleanser. Serial No. 343,359; Jan. 9. Class 6.
Millville Manufacturing Company, Philadelphia, Pa. Cotton piece goods. Serial No. 343,566; Jan. 9. Class 42.
Mitchell & Smith, Inc., Detroit, Mich. Cork products. Serial No. 326,593; Jan. 9. Class 12.
Moto-King Lubricants, Inc., Oil City, Pa. Oils. Serial Nos. 343,378–9; Jan. 9. Class 15.
Motor Wheel Corporation, Lansing, Mich Metal barrels. Serial No. 343,517; Jan. 9. Class 1.
Muvietan Products Co., Ltd., Los Angeles, Calif. Antiseptic vaginal cones. Serial No. 343,180; Jan. 9. Class 6
Nassau Smelting and Refining Company, New York, N. Y. Bronze metals. Serial No. 343,569; Jan. 9. Class 14.
National Fireproofing Corporation, Pittsburgh, Pa. Building units or blocks of fired clay material. Serial No. 343,181; Jan. 9. Class 12.
National Fruit Flavor Company, Inc., New Orleans, La. Maltless fruit beverage and concentrates for making same. Serial No. 343,248; Jan. 9 Class 45.
Nature Publishing Co. (See Henderson, C. W.)
Navarre Coat Company, Inc., New York, N. Y. Coats and dresses. Serial No. 343,698; Jan. 9. Class 39.
New Cone Co., Chicago, Ill. Ice-cream cones. Serial No. 343,150; Jan. 9. Class 46.
Nutritine Health Products, Inc., New York, N. Y. Food drink. Serial No. 343,836; Jan. 9. Class 46
Nu-Way Corporation, The, Rock Island, Ill. Oil burners and oil-burning systems. Serial No. 342,037; Jan. 9. Class 34.
O'Brien, Luke E., doing business as Subduco Products Co., Steubenville, Ohio. Water-softening preparation. Serial No. 342,358; Jan. 9. Class 6.
Old Dutch Mills, Inc., New York, N. Y. Whisky. Serial No. 344,161; Jan. 9. Class 49.
Old Gilmore Distillery, Inc., New York, N. Y. Whiskey. Serial No. 344,000; Jan. 9 Class 49.
Old Quaker Company, The, New York, N. Y., and Lawrenceburg, Ind. Whiskey, gin, and other potable distilled spirits. Serial No. 344,201; Jan. 9. Class 49.
Omaha Flour Mills Company, Omaha, Nebr. Wheat breakfast cereal. Serial No. 328,923; Jan. 9. Class 46.
Ostrucon Chemical Company, Inc., New York, N. Y. Bitters and other potable distilled spirits. Serial No. 343,624; Jan. 9. Class 49.
Ostrucon Chemical Company, Inc., New York, N. Y. Bitters and other potable distilled spirits. Serial Nos. 344,349–52; Jan. 9. Class 49.
Parfumerie Caron. (See Daltroff, E., & Cie.)
Pemberton, Harold J., doing business as A Pem Co., Scoot, Ark. Hair tonic. Serial No. 342,703; Jan. 9. Class 6.
Pender, David, Grocery Company, Norfolk, Va. Paper napkins. Serial No. 340,448; Jan. 9. Class 37.
Pep Boys—Manny, Moe & Jack, The, doing business as Cornell Tire & Rubber Co., Philadelphia, Pa., and Akron, Ohio. Automobile tube and tire repair kits. Serial No. 343,472; Jan. 9. Class 35.
Pep Boys—Manny, Moe & Jack, The, doing business as Cornell Tire & Rubber Co., Akron, Ohio, and Philadelphia, Pa. Adhesive vulcanizing cement and running board cements. Serial No. 343,473; Jan. 9. Class 5.
Pepper, Jas. E., & Co. (See Finch, Jos. S., & Company.)
Pepper, Jas. E., & Company, Lexington, Ky. Whiskey and other potable distilled spirits. Serial No. 343,703; Jan. 9. Class 49.
Pepper, Jas. E., & Company, Lexington, Ky. Whiskey and other potable distilled spirits. Serial No. 343,788; Jan. 9. Class 49.
Pfeiffer Brewing Company, Detroit, Mich. Malt beverages. Serial No. 338,108; Jan. 9. Class 48.
Picking, William C., Denver, Colo. Stomach and blood preparations, face creams, etc. Serial No. 342,550; Jan. 9. Class 6.
Pioneer Suspender Company, Philadelphia, Pa. Belts for outer wear. Serial No. 342,922; Jan. 9. Class 39.
Powdrell & Alexander, Inc., Danielson, Conn. Woven curtain materials. Serial Nos. 343,571–2; Jan. 9. Class 42.
Powrlube Co. of N. J. (See Bushakra, Fouad.)
Premo Pharmaceutical Laboratories. (See Blackman & Blackman, Inc.)
Prescott, Henry T., doing business as Prescott Reed Co., Chicago, Ill. Clarinet and saxophone reeds and oboe and bassoon reeds and tubes. Serial No. 342,079; Jan. 9. Class 36.
Prima Company, Chicago, Ill. Malt beverages. Serial No. 343,626; Jan. 9. Class 48.
Reid Wright & Holloway (Distillers) Limited, London, England. Whisky. Serial No. 343,663; Jan. 9. Class 49.
Reilly, Frank C., New York, N. Y. Whiskey. Serial Nos. 344,108–9; Jan. 9. Class 49.
Riverbank Canning Company, Riverbank, Calif. Fruits, vegetables, olive oil, etc. Serial No. 342,455; Jan. 9. Class 46.
Roebling Coal Co., Inc., New York, N. Y. Coal. Serial No. 343,044; Jan. 9. Class 1.
Rogée-Fromy, Eugene, doing business as Maison Fromy-Rogee & Cie, St. Jean D'Angely, France. Cognacs and brandies. Serial No. 343,411; Jan. 9. Class 49.
Roger, Pol, & Co., Epernay, France. Wines. Serial No. 344,236; Jan. 9. Class 47.
Ross, Agnes T., doing business as Emery & Ross, New York, N. Y. Combination person and bed protector. Serial No. 337,200; Jan. 9. Class 42.
Rotary Electric Steel Company, Detroit, Mich. Hot rolled and cold drawn bars. Serial No. 342,165; Jan. 9. Class 14.
Rozig, John, New York, N. Y. Polish. Serial No. 343,744; Jan. 9. Class 16.
Rumba Products, Inc., New York, N. Y. Rum, brandy, gin, and other potable distilled liquors. Serial No. 344,205; Jan. 9. Class 49.
Schenley Products Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 344,063; Jan. 9. Class 49.
Schenley Wine & Spirit Import Corporation, New York, N. Y. Wines. Serial No. 344,006; Jan. 9. Class 47.
Schenley Wine & Spirit Import Corporation, New York, N. Y. Wines. Serial No. 344,163; Jan. 9. Class 47.
Schering Corporation, New York, N. Y. Laxative preparations. Serial No. 341,047; Jan. 9. Class 6.
Shoe Form Co., Inc., Auburn, N. Y. Fish bait. Serial No. 344,117; Jan. 9. Class 22.
Simpson, Henry, & Company, Limited, Glasgow, Scotland. Whisky. Serial No. 342,361; Jan. 9. Class 49.
Sleepmakers Incorporated, Chicago, Ill. Bed springs and mattresses. Serial No. 344,011; Jan. 9. Class 32.
Societe Anonyme Champagne Pommery & Greno, Reims, France. Wines. Serial Nos. 344,237–8; Jan. 9. Class 47.
Societe Anonyme Jules Robin, Ancienne Maison Jules Robin et Cie., Cognac, France. Brandies. Serial No. 344,296; Jan. 9. Class 49.
Sommer & Kaufmann Inc., San Francisco, Calif. Leather shoes only. Serial No. 341,823; Jan. 9. Class 39.
Sowers Brothers, Baltimore, Md. Whiskey. Serial Nos. 342,953–4; Jan. 9. Class 49.
Sowers Manufacturing Co., Buffalo, N. Y. Kettles. Serial No. 342,952; Jan. 9. Class 13.
Sparvieri, Dominick, Hoboken, N. J. Olive oil. Serial No. 343,013; Jan. 9. Class 46.
Spitzer Bros., Inc., New York, N. Y. Whiskey and brandy. Serial No. 344,363; Jan. 9. Class 49.
Standard Brands Incorporated, New York, N. Y. Tea. Serial No. 341,068; Jan. 9. Class 46.
Standard Milling Company, New York, N. Y. Mixed feed and wheat scourings and screenings. Serial No. 342,363; Jan. 9. Class 46.
Stern Hat Company, The, doing business as Arrow Importing Co., Cleveland, Ohio. Raincoats. Serial No. 344,119. Jan. 9. Class 39.
Strutwear Knitting Company, Minneapolis, Minn. Hosiery. Serial Nos. 343,889–90; Jan. 9. Class 39.
Subduco Products Co. (See O'Brien, Luke E.)
Sun Printing and Publishing Association, The, New York, N. Y. Serial column. Serial No. 344,168; Jan. 9. Class 38.
Superior Products Company, New York, N. Y. Brake parts and cables. Serial No. 343,014; Jan. 9. Class 23.
Taylor, William T., Pittsburgh, Pa. Pile salve. Serial No. 343,022; Jan. 9. Class 6.
Tennessee Furniture Corporation, Chattanooga, Tenn. Refrigerators. Serial No. 342,557; Jan. 9. Class 31.
Thomas Chemical Co., Inc., The, Lynchburg, Va. Ointment. Serial No. 320,769; Jan. 9. Class 6.
Timin & Ginsberg, Brooklyn, N. Y. Rat-exterminating preparation. Serial No. 342,676; Jan. 9. Class 6.
Townsend Lawn Mower Co., Bloomfield, N. J. Lawn mowers. Serial No. 338,060; Jan. 9. Class 23.
Trade Laboratories, Inc., The, Newark, N. J. Dental cream. Serial No. 343,258; Jan. 9. Class 6.
Transparent Ruler Company, The, Hartford, Conn. Rules and rulers. Serial No. 343,750; Jan. 9. Class 26.
Trilos Limited, St. Annes-on-Sea, England. Game. Serial No. 342,138; Jan. 9. Class 22.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Trinidad Import & Export Co., Ltd., Port of Spain, Trinidad. Rum. Serial No. 343,103; Jan. 9. Class 49.

Triumph Fusee and Fireworks Company, The, Elkton, Md. Fireworks. Serial No. 344,069; Jan. 9. Class 9.

Tru-Bloo Co., The, Miami, Fla. Perfume. Serial No. 343,630; Jan. 9. Class 6.

Try-Me Bottling Co., Washington, D. C. Maltless beverages. Serial No. 343,310; Jan. 9. Class 45.

Tubin, Lillian S., doing business as Menthosol Co., Chicago, Ill. Bath salts. Serial No. 339,952; Jan. 9. Class 6.

Tyrrell's Hygienic Institute, Inc., New York, N. Y. Cleansing tonic. Serial No 343,532; Jan. 9. Class 6.

Ullman Brothers, New York, N. Y. Topcoats and overcoats. Serial No. 344,241; Jan. 9. Class 39.

United Brewing Company, Newark, N. J. Beer. Serial No. 343,631; Jan. 9. Class 48.

United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey. Serial No. 344,020; Jan. 9. Class 49.

United Distillers Limited, Vancouver, British Columbia, Canada. Gin. Serial No. 344,021; Jan. 9. Class 49.

United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey. Serial Nos. 344,022–3; Jan. 9. Class 49.

Von der Nahmer, Alexanderwerk A., Remscheid, Germany. Meat cutters, flour mills, waffle irons, etc. Serial No. 337,060; Jan. 9. Class 23.

Walgreen Co., Chicago, Ill. Maltless beverages. Serial No. 343,894; Jan. 9. Class 45.

Warden, Herbert W., jr., Philadelphia, Pa. Wines. Serial No. 343,755; Jan. 9. Class 47.

Washington Distilling & Rectifying Corporation, New York, N. Y. Gin. Serial No. 344,242; Jan. 9. Class 49.

Weathersby-Brunner Co., Memphis, Tenn. Coffee. Serial No. 295,967; Jan. 9. Class 46.

Webb, Frances S., doing business as Webb Chemical Company, Osceola, Ark. Salve and capsules. Serial No. 338,853; Jan. 9. Class 6.

Webb, Robert J. A., Union City, Okla. Cotton seed. Serial No. 343,373; Jan. 9. Class 1.

Weeping Water Crystals Co., Milwaukee, Wis. Crystals derived from mineral water. Serial No. 343,292; Jan. 9. Class 6.

White Pine Sash Company, Spokane, Wash. Lumber and millwork. Serial No. 343,812; Jan. 9. Class 12.

Whiteley, William, & Co., Inc., Dover, Del. Whisky. Serial No. 344,305; Jan. 9. Class 49.

Wilkil Sales Company, Los Angeles, Calif. Insecticide. Serial No. 343,807; Jan. 9. Class 6.

Willard Storage Battery Company, Cleveland, Ohio. Storage batteries and hard-rubber containers therefor. Serial No. 335,795; Jan. 9. Class 21.

Windsor-Lloyd Products, Inc., Wilmington, Del. Piston rings. Serial No. 343,196; Jan. 9. Class 35.

Winship, Charles N., doing business as Winship, Bolt & Co., Wakefield, Mass. Coats. Serial No. 344,244; Jan. 9. Class 39.

Yankee Polish Co., Inc., New York, N. Y. Shoe blacking, dressing and polish, and polish for all leather goods. Serial No. 343,313; Jan. 9. Class 4.

Zenith Laboratory. (See Hy'ne Company.)

LIST OF REGISTRANTS OF TRADE-MARKS

Adirondack Tissue Paper Co., New Hartford, to Adirondack Tissue Paper Co., Utica, N. Y. Toilet-paper, paper towels, and paper napkins. 95,696; renewed Mar. 3, 1934.

Agfa Ansco Corporation. (See Anthony & Scovill, The, assignor.)

Albo Wash Fluid Company, Glendale, N. Y. Javelle wash and bleaching preparations. 309,296; Jan. 9; Serial No. 336,168; published Oct. 31, 1933. Class 6.

Allen's, N. R., Sons Company, Kenosha, Wis., assignor to The United States Leather Selling Corporation, New York, N. Y. Leather strips. 94,707; renewed Dec. 30, 1933.

American Crayon Company, The, Sandusky, Ohio. Modeling clay. 309,192; Jan. 9; Serial No. 339,921; published Oct. 31, 1933. Class 1.

American Fur Dyeing Company, North Bergen, N. J. Dyed skins. 309,331; Jan. 9; Serial No. 340,028; published Oct. 24, 1933. Class 1.

American Glue Company, assignor, by mesne assignments, to Union Sandpaper Company, Boston, Mass. Sandpapers, garnet-papers, emery-papers, and emery cloths. 94,709; renewed Dec. 30, 1933.

Angel Skin Co., The. (See McMath, John N.)

Anthony & Scovill Company, The, New York, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Sensitized photographic paper and film. 41,689; renewed Dec. 22, 1933.

Arbodine. (See Lawry, Rolla.)

Arden, Elizabeth, Inc., New York, N. Y. Cosmetic cream. 309,323; Jan. 9; Serial No. 340,300; published Oct. 17, 1933. Class 6.

Argus Knitting Mills, Inc., New York, N. Y. Cotton, woolen, silk, and rayon piece goods. 309,374; Jan. 9; Serial No. 335,538; published Oct. 24, 1933. Class 42.

Argus Knitting Mills, Inc., New York, N. Y. Hats, caps, coats, suits, etc. 309,375; Jan. 9; Serial No. 335,539; published Oct. 24, 1933. Class 39.

Arkansas Company Inc., New York, N. Y. Vegetable oil for textile dyeing and finishing. 309,241; Jan. 9; Serial No. 340,566; published Oct. 17, 1933. Class 6.

Arkansas Company Inc., New York, N. Y. Emulsion of aluminum acetate. 309,244; Jan. 9; Serial No. 340,565; published Oct. 17, 1933. Class 6.

Asbury Mills, The, New York, N. Y. Corsets. 309,218; Jan. 9; Serial No. 341,539; published Oct. 24, 1933. Class 39.

Ash Grove Lime & Portland Cement Company, Kansas City, Mo. Chemical lime. 309,395; Jan. 9; Serial No. 338,861; published Oct. 17, 1933. Class 6.

Atlas Safety Razor Company, Inc., New York, N. Y. Safety razors and safety razor blades. 309,228; Jan. 9; Serial No. 341,417; published Oct. 24, 1933. Class 23.

Ayer Company, The, Lowell, Mass. Cream for treatment of burns, scalds, etc. 309,315; Jan. 9; Serial No. 340,464; published Oct. 17, 1933. Class 6.

Badger Carton Company, Milwaukee, Wis. Paperboard set-up toys. 309,333; Jan. 9; Serial No. 341,155; published Oct. 31, 1933. Class 22.

Bailey, R. M., El Monte, Calif. Apple juice. 309,421; Jan. 9. Class 45.

Barrett Company, The, New York, N. Y. Rubber compounding material. 309,285; Jan. 9; Serial No. 340,943; published Oct. 24, 1933. Class 6.

Beck, Ralph G. A., Montreal, Quebec, Canada. Nursing bottle nipples. 309,320; Jan. 9; Serial No. 340,335; published Oct. 31, 1933. Class 44.

Beck, Ralph G. A., Montreal, Quebec, Canada. Nursing bottle nipples. 309,411; Jan. 9; Serial No. 336,746; published Oct. 31, 1933. Class 44.

Böhme, H. Th., Aktiengesellschaft, Chemnitz, Germany. Chemical dye aids. 309,277; Jan. 9; Serial No. 340,530; published Oct. 17, 1933. Class 6.

Bremner Bros., Chicago, Ill. Cakes, wafers, and biscuits. 95,594; renewed Mar. 3, 1934.

Brown Durrell Co., Boston, Mass. Underwear. 309,328; Jan. 9; Serial No. 340,214; published Oct. 24, 1933. Class 39.

Burton, Richard, Schools, Inc., Minneapolis, Minn. Publications. 309,355; Jan. 9; Serial No. 329,212; published Oct. 24, 1933. Class 38.

Butterick Company, The, New York, N. Y. Periodicals. 309,297; Jan. 9; Serial No. 341,012; published Oct. 31, 1933. Class 38.

C. R. C. Company. (See Miles, F. J. M.)

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Insecticides and herbicides. 309,238; Jan. 9; Serial No. 340,591; published Oct. 31, 1933. Class 6.

California Yeast Products Corporation, Ltd., Los Angeles, Calif. Medicine and nutritive preparation containing yeast, vitamins, etc. 309,404; Jan. 9; Serial No. 337,830; published Oct. 24, 1933. Class 6.

Callaway Mills, Lagrange, Ga. Ironing board sets, nets, and ironing board covers. 309,335; Jan. 9; Serial No. 341,189; published Oct. 31, 1933. Class 24.

Callaway Mills, Lagrange, Ga. Yarns and threads. 309,336; Jan. 9; Serial No. 341,193; published Oct. 24, 1933. Class 43.

Calliguria Food Products Corporation, Los Angeles, Calif. Canned fish. 309,410; Jan. 9; Serial No. 336,260; published Oct. 24, 1933. Class 46.

Camembert Industrie Heising, Hirschle & Immler, Heising, Germany. Cheese. 309,358; Jan. 9; Serial No. 320,617; published Oct. 31, 1933. Class 46.

Carbonated Health Co. (See Whitcraft, S. Maurice.)

Carroll Gold Book Publishing Co., The, Boston, Mass. Book or directory. 309,230; Jan. 9; Serial No. 341,393; published Oct. 31, 1933. Class 38.

Carson, Albert, doing business as Vildor Company, New York, N. Y. Lip stick, face cream, face lotion, face powder, face rouge. 309,211; Jan. 9; Serial No. 340,859; published Oct. 17, 1933. Class 6.

Catalin Corporation of America, Fords, N. J. Plastic compositions. 309,385; Jan. 9; Serial No. 332,250; published Oct. 24, 1933. Class 1.

Celebrity Productions, Inc., New York, N. Y. Motion pictures. 309,314; Jan. 9; Serial No. 340,467; published Oct. 24, 1933. Class 26.

Chandu Chemical Products Company, Hopewell, Va. Automobile polish. 309,236; Jan. 9; Serial No. 340,609; published Oct. 31, 1933. Class 16.

Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich, Helfenberg, near Dresden, Germany. Reagent paper. 309,396; Jan. 9; Serial No. 338,598; published Oct. 17, 1933. Class 6.

Chicago Daily News, Inc., The, Chicago, Ill. Serial column in newspapers. 309,271; Jan. 9; Serial No. 340,640; published Oct. 31, 1933. Class 38.

Chicopee Manufacturing Corporation, New Brunswick, N. J. Lustre or brilliant fabric weaves. 309,394; Jan. 9; Serial No. 338,722; published Oct. 24, 1933. Class 42.

Church & Dwight Co. Inc., New York, N. Y. Recipe booklets. 309,430; Jan. 9. Class 38.

Churchill, Lawrence E., Oshkosh, Wis. Paste powder and rouge. 309,389; Jan. 9; Serial No. 330,536; published Oct. 17, 1933. Class 6.

Clicquot Club Co., Millis, Mass. Maltless beverages, syrups and concentrates for making same, and bottled water. 309,223; Jan. 9; Serial No. 341,423; published Oct. 31, 1933. Class 45.

Cliquot Club Co., Millis, Mass. Maltless beverages, syrups, and concentrates, and bottled water. 309,229; Jan. 9; Serial No. 341,422; published Oct. 31, 1933. Class 45.

Coast 2 Coast Oil Company, Cleveland, Ohio. Lubricating oils and greases. 309,253; Jan. 9; Serial No. 341,624; published Oct. 24, 1933. Class 15.

Coloring Starch Co. Inc., The, Chicago, Ill. Coloring starch. 309,194; Jan. 9; Serial No. 339,708; published Oct. 24, 1933. Class 6.

Conde Nast Publications, Inc., The, New York, N. Y. Paper dress patterns. 309,418; Jan. 9. Class 26.

Continental Automobile Company, Grand Rapids and Detroit, Mich. Automobiles and structural parts thereof. 309,378; Jan. 9; Serial No. 334,030; published Oct. 24, 1933. Class 19.

Contratto, Alberto, doing business as Giuseppe Contratto, Canelli, Italy. Wines. 309,380; Jan. 9; Serial No. 333,577; published Oct. 31, 1933. Class 47.

Correct Printing Co. Inc., New York, N. Y. Printed advertising and descriptive folders, pamphlets, and mailing pieces. 309,304; Jan. 9; Serial No. 341,064; published Oct. 24, 1933. Class 38.

Craine, Inc., Norwich, N. Y. Storage tanks, silos, and coal pockets. 309,305; Jan. 9; Serial No. 341,077; published Oct. 31, 1933. Class 2.

Craine, Inc., Norwich, N. Y. Silos, storage pockets and tanks, and bins. 309,306; Jan. 9; Serial No. 341,079; published Oct. 31, 1933. Class 2.

Crisenberry, Benjohn, Detroit, Mich. Gas burners. 309,252; Jan. 9; Serial No. 341,646; published Oct. 31, 1933. Class 34.

Cutler-Hammer Mfg. Co., The, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Insulating material. 97,127; renewed May 19, 1934.

Daniel, John H., doing business as John H. Daniel Company, Rome, Ga. Suits, coats, pants, etc. 309,317; Jan. 9; Serial No. 340,436; published Oct. 24, 1933. Class 39.

De Witt Pharmacal Co. (See Guthrie, Paul K.)

Diamond Match Company, The, New York, N. Y. Matches. 309,352; Jan. 9; Serial No. 341,358; published Oct. 31, 1933. Class 9.

Dickie, James, Oakland, Calif. Cartoons. 309,392; Jan. 9; Serial No. 329,467; published Oct. 31, 1933. Class 38.

Dixie Cream Donut Company. (See Hubbs, Elmer A.)

Dorann Chemical Co., Inc., Cincinnati, Ohio. Waterless cleaner and dry powder. 309,310; Jan. 9; Serial No. 341,117; published Oct. 24, 1933. Class 4.

Douglas, W. L., Shoe Company, Montello, Brockton, Mass. Boots, shoes, and slippers. 309,284; Jan. 9; Serial No. 340,963; published Oct. 24, 1933. Class 39.

Dover Manufacturing Company, The, Dover, Ohio. Electric sadirons and percolators. 309,435; Jan. 9. Class 21.

Earthen Products Company, Houston, Tex. Ground amorphous raw clay and fuller's earth, etc. 309,364; Jan. 9; Serial No. 339,350; published Oct. 24, 1933. Class 1.

Elektro-Osmose A. G., Berlin, Germany. Preparation for disinfecting brewery equipment. 309,412; Jan. 9; Serial No. 340,522; published Oct. 24, 1933. Class 6.

Essex Rubber Company, Trenton, N. J. Rubber heels. 309,340; Jan. 9; Serial No. 341,220; published Oct. 24, 1933. Class 39.

Essex Rubber Company, Trenton, N. J. Rubber heels. 309,372; Jan. 9; Serial No. 339,101; published Oct. 24, 1933. Class 39.

Estabrook & Eaton Company, Boston, Mass. Cigars. 309,280; Jan. 9; Serial No. 340,965; published Oct. 31, 1933. Class 17.

Excelsior Springs Mineral Water Crystals Company, Excelsior Springs, Mo. Mineral water crystals. 309,353; Jan. 9; Serial No. 329,259; published Oct. 25, 1932. Class 6.

Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Crayons. 309,433; Jan. 9. Class 37.

Faunce, Benjamin R., Riverside, N. J. Soft drink. 94,359; renewed Dec. 2, 1933.

Federici, Paris, doing business as Paris Federici & Co., Merced, Calif. Cantaloupes, vegetables, grapes, and dried fruit. 309,417; Jan. 9. Class 46.

Feliz Tempest Company. (See Kerr, Dorothy K.)

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Steel wire and wire strings. 93,705; renewed Oct. 14, 1933.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Hardware, plumbing, and steam-fitting supplies. 94,361; renewed Dec. 2, 1933.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Machinery and tools and parts thereof. 94,362; renewed Dec. 2, 1933.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Metals and goods made therefrom. 94,435; renewed Dec. 9, 1933.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Articles composed of vegetable substances, mineral substances, combinations thereof, and leather packing. 94,436; renewed Dec. 9, 1933.

Feuerbeerd Brothers & Company, Limited, St. Helier, Jersey, Channel Islands. Port wine. 309,208; Jan. 9; Serial No. 340,871; published Oct. 31, 1933. Class 47.

Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. 309,428; Jan. 9. Class 49.

Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. 309,431; Jan. 9. Class 49.

Finch, Jos. S., & Company, New York, N. Y. Whiskey, brandy, gin, etc. 309,436–7; Jan. 9. Class 49.

Fine Products Corporation. (See Hollingsworth Candy Company, assignor.)

Frances Citrus Association, Santa Ana, Calif. Oranges and lemons. 309,434; Jan. 9. Class 46.

Franklin Oil Corporation, Pittsburgh, Pa. Prepared graphite concentrate and lubricating oils and greases containing same. 309,219; Jan. 9; Serial No. 341,480; published Oct. 24, 1933. Class 15.

Fry, J. S., & Sons, Limited, Bristol, England. Milk chocolate. 95,420; renewed Feb. 17, 1934.

Fuller, Alfred C., assignor to The Fuller Brush Company, Hartford, Conn. Brushes, dusters, and mops. 95,537; renewed Feb. 24, 1934.

Furbush, Richard I., doing business as R. I. Furbush Company, Waltham, Mass. Game of chance. 309,281; Jan. 9; Serial No. 340,966; published Oct. 31, 1933. Class 22.

Furnish, Richard D., Scobey, Mont. Monoacid phosphate of calcium. 309,201; Jan. 9; Serial No. 339,492; published Oct. 24, 1933. Class 6.

Gambill, Wm. M., doing business as Ogene Company, Merkel, Tex. Hair dress and face lotion. 309,215; Jan. 9; Serial No. 341,550; published Oct. 24, 1933. Class 6.

Garnett, G., & Sons, Limited, Apperley Bridge, near Bradford, England. Piece goods. 95,826; renewed Mar. 17, 1934.

Geigy Company, Inc., New York, N. Y. Tanning materials and chemical products for tanning purposes. 309,202; Jan. 9; Serial No. 340,916; published Oct. 24, 1933. Class 6.

General Aviation Manufacturing Corporation, Dundalk, Md. Airplanes. 309,373; Jan. 9; Serial No. 335,613; published Oct. 31, 1933. Class 19.

General Cable Corporation, New York, N. Y. Wires and cables. 309,420; Jan. 9. Class 21.

General Mills, Inc., Minneapolis, Minn. Milled grain products and preparations thereof. 309,413; Jan. 9; Serial No. 336,247; published June 13, 1933. Class 46.

General Mills, Inc., Minneapolis, Minn. Biscuit flour. 309,423; Jan. 9. Class 46.

Germicide Products Corporation, Buffalo, N. Y. Hypochlorite solutions. 309,233–4; Jan. 9; Serial Nos. 340,614–15; published Oct. 17, 1933. Class 6.

Gerould, Edwin M., Beach Bluff, Mass. Portable refreshment booth. 309,401; Jan. 9; Serial No. 338,489; published Oct. 24, 1933. Class 32.

Gleam Products Corporation, New York, N. Y. Scouring powder. 309,232; Jan. 9; Serial No. 341,363; published Oct. 24, 1933. Class 4.

Gould, Arthur, doing business as Gould Laboratories and Cynara Cosmetics, New York, N. Y. Toilet preparations and cosmetics. 309,337; Jan. 9; Serial No. 341,199; published Oct. 31, 1933. Class 6.

Guilbert, Emeryl J., doing business as Springdale Mayonnaise Company, Springdale, Conn. Mayonnaise. 309,384; Jan. 9; Serial No. 331,989; published Jan. 31, 1933. Class 46.

Guthrie, Paul K., doing business as De Witt Pharmacal Co., Philadelphia, Pa. Medicated ointment. 309,365; Jan. 9; Serial No. 339,308; published Oct. 24, 1933. Class 6.

Hall-Rattermann Oil Company, The, Cincinnati, Ohio. Liquid fuels. 309,388; Jan. 9; Serial No. 330,163; published Oct. 24, 1933. Class 15.

Hamill, S., Company, Keokuk, Iowa. Wheat flour, pepper, mustard, etc. 97,139; renewed May 19, 1934.

Hammondsport Wine Co. (See Putnam, Deyo W.)

Heidenbain, H., Wenatchee, Wash. Plant spray. 309,209; Jan. 9; Serial No. 340,875; published Oct. 24, 1933. Class 6.

Hercules Powder Company, Wilmington, Del. Flaked zinc for pigment purposes. 309,289; Jan. 9; Serial No. 340,917; published Oct. 31, 1933. Class 16.

Hinde & Dauch Paper Company, The, Sandusky, Ohio. Fibre board. 309,334; Jan. 9; Serial No. 341,186; published Oct. 24, 1933. Class 37.

Histeen Corporation, The, Chicago, Ill. Medical preparation. 309,265; Jan. 9; Serial No. 340,741; published Oct. 24, 1933. Class 6.

Hoberg Paper & Fibre Company, Green Bay, Wis. Toilet paper, paper towels, and paper napkins. 309,357; Jan. 9; Serial No. 328,491; published Oct. 24, 1933. Class 37.

Hollingsworth Candy Company, assignor to Fine Products Corporation, Augusta, Ga. Candy. 96,417; renewed Apr. 21, 1934.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, powder, rouge, brilliantine, compacts, etc. 309,266; Jan. 9; Serial No. 340,743; published Oct. 17, 1933. Class 6.

Houston Packing Company, Houston, Tex. Packing house products. 309,381; Jan. 9; Serial No. 333,593; published Oct. 24, 1933. Class 46.

Hoy, Wilbur B., State College, Pa. Skin emollient. 309,432; Jan. 9. Class 6.

Hubbs, Elmer A., doing business as Dixie Cream Donut Company, Dallas, Tex. Doughnuts and doughnut flour. 309,368; Jan. 9; Serial No. 339,231; published Oct. 24, 1933. Class 46.

Hydrox Chemical Company, Chicago, Ill. Hair bleach. 309,254; Jan. 9; Serial No. 341,629; published Oct. 31, 1933. Class 6.

Hyman, David D., doing business as Dr. Hyman's Dental Products Co., Philadelphia, Pa. Tooth paste. 309,275; Jan. 9; Serial No. 340,535; published Oct. 31, 1933. Class 6.

Institute of Radio Engineers, The, New York, N. Y. Electrical journals and publications. 309,406; Jan. 9; Serial No. 337,161; published Oct. 24, 1933. Class 38.

Institute of Radio Engineers, The, New York, N. Y. Journals and publications. 309,409; Jan. 9; Serial No. 337,160; published Oct. 24, 1933. Class 38.

International Harvester Company of New Jersey, assignor to International Harvester Company, Chicago, Ill. Machines and parts thereof. 95,764; renewed Mar. 10, 1934.

Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 96,591; renewed Apr. 21, 1934.

Jenaer Glaswerk Schott & Son. (See Schott & Gen.)

Johnson Oil Refining Company, Chicago, Ill. Hydraulic brake fluid. 309,327; Jan. 9; Serial No. 340,258; published Oct. 17, 1933. Class 6.

Justrite Company, The, Milwaukee, Wis. Pet foods. 309,203; Jan. 9; Serial No. 339,461; published Aug. 22, 1933. Class 46.

Kappa Products Co. (See Price, Killian A.)

Keane, Ruth A., Sacramento, Calif. Paper. 309,286; Jan. 9; Serial No. 340,951; published Oct. 31, 1933. Class 37.

Keene Washing Products Company, Keene, N. H. Cleaning and polishing compound. 309,362; Jan. 9; Serial No. 317,896; published Oct. 31, 1933. Class 4.

Keever Starch Company, The, Columbus, Ohio. Starch. 95,436; renewed Feb. 17, 1934.

Kemp, Edward F., assignor to E. F. Kemp Inc., Somerville, Mass. Nuts and salted nuts. 97,059; renewed May 19, 1934.

Kerr, Dorothy K., doing business as Felix Tempest Company, Brooklyn, N. Y. Medicated salve. 309,379; Jan. 9; Serial No. 334,133; published Oct. 24, 1933. Class 6.

Keystone Mushroom Co., Inc., Coatesville, Pa. Canned mushrooms. 309,319; Jan. 9; Serial No. 340,354; published Oct. 31, 1933. Class 46.

Kieckhefer Container Company, Milwaukee, Wis. Shipping baskets. 309,344; Jan. 9; Serial No. 341,263; published Oct. 31, 1933. Class 2.

Kimberly-Clark Corporation, Neenah, Wis. Book paper. 309,338; Jan. 9; Serial No. 341,205; published Oct. 24, 1933. Class 37.

King Features Syndicate, Inc., New York, N. Y. Newspaper section. 309,216; Jan. 9; Serial No. 341,555; published Oct. 24, 1933. Class 38.

King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 309,290; Jan. 9; Serial No. 340,920; published Oct. 24, 1933. Class 38.

Kingsbury Breweries Company, Manitowoc, Wis. Beer. 309,307; Jan. 9; Serial No. 341,090; published Oct. 31, 1933. Class 48.

Koppers Company of Delaware, The, Pittsburgh, Pa. Coal. 309,360; Jan. 9; Serial No. 325,914; published Oct. 24, 1933. Class 1.

Kress, S. H. & Co., New York, N. Y. Paper cups and plates. 309,419; Jan. 9. Class 2.

Krone-Jacobson Inc., New York, N. Y. Silks. 309,198; Jan. 9; Serial No. 339,566; published Oct. 24, 1933. Class 42.

Kurth Company, The, Columbus, Ohio. Malt beverages. 309,255; Jan. 9; Serial No. 341,577; published Oct. 31, 1933. Class 48.

Labin, Charles A., Limited, London, England. Wines. 309,274; Jan. 9; Serial No. 341,730; published Oct. 31, 1933. Class 47.

Labin, Charles A., Limited, London, England. Wines. 309,278–9; Jan. 9; Serial Nos. 341,728–9; published Oct. 24, 1933. Class 47.

Laboratorio Chimico Farmaceutico Moderno di Torino Società in Accomandita Semplice di E. Granelli & C., Milan, Italy. Magnesia. 309,400; Jan. 9; Serial No. 338,374; published Oct. 17, 1933. Class 6.

Lambertville Rubber Company, Inc., Lambertville, N. J. Tennis shoes. 309,308; Jan. 9; Serial No. 341,091; published Oct. 24, 1933. Class 39.

La Verne Incorporated, Cincinnati, Ohio. Maltless syrups. 309,398; Jan. 9; Serial No. 338,572; published Oct. 31, 1933. Class 45.

Lawry, Rolla, doing business as Arbodine, East Port Chester, Conn. Antiseptic and mouth wash, douche powder, tooth paste, antiseptic concentrate. 309,330; Jan. 9; Serial No. 340,047; published Oct. 31, 1933. Class 6.

Lehn & Fink, Inc., Bloomfield, N. J. Preparation recommended as a cleansing agent. 309,198; Jan. 9; Serial No. 339,973; published Oct. 31, 1933. Class 4.

Leslie, Holly, Inc., Douglaston, Long Island, N. Y. Toilet preparations. 309,206; Jan. 9; Serial No. 340,886; published Oct. 24, 1933. Class 6.

Libit Chemical Co. Inc., New York, N. Y. Salves and ointments. 309,235; Jan. 9; Serial No. 340,600; published Oct. 24, 1933. Class 6.

Liebich, G. J., Co., Chicago, Ill. Paint base coats, paints, varnishes, etc. 309,369; Jan. 9; Serial No. 339,192; published Oct. 24, 1933. Class 16.

Lufkin Rule Company, The, Saginaw, Mich. Tape measures. 309,377; Jan. 9; Serial No. 335,476; published Oct. 24, 1933. Class 26.

Makers of Kal, Inc., Los Angeles, Calif. Compound containing various minerals to be mixed with food or eaten dry or mixed into a drink for corrective purposes. 309,294; Jan. 9; Serial No. 336,090; published Oct. 31, 1933. Class 6.

Makris, Andrew, Bros., New York, N. Y. Olive oil. 309,326; Jan. 9; Serial No. 340,261; published Oct. 31, 1933. Class 46.

Marcalus Manufacturing Company, Inc., Bloomfield, N. J. Waxed paper. 309,329; Jan. 9; Serial No. 340,091; published Oct. 31, 1933. Class 37.

Marshall Asbestos Corporation, Troy, N. Y. Brake lining. 309,422; Jan. 9. Class 35.

Masonite Corporation, Laurel, Miss. Fiber board with tile-form indentations. 309,298; Jan. 9; Serial No. 341,026; published Oct. 17, 1933. Class 12.

Master Metal Products, Inc., Buffalo, N. Y. Chests or boxes made of base metal. 309,416; Jan. 9. Class 2.

Mazer, J., Sons Cigar Company, Detroit, Mich. Cigars. 309,302; Jan. 9; Serial No. 341,043; published Oct. 31, 1933. Class 17.

McDaniel & Sons, Yuma, Ariz. Fresh cantaloupes. 309,243; Jan. 9; Serial No. 340,746; published Oct. 24, 1933. Class 46.

McFerran, Joe W., Owensboro, Ky. Hominy flakes. 309,393; Jan. 9; Serial No. 338,985; published Oct. 24, 1933. Class 46.

McMath, John N., doing business as The Angel Skin Co., Larchmont, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 309,287; Jan. 9; Serial No. 340,921; published Oct. 24, 1933. Class 6.

Mente & Co., Inc., New Orleans, La. Jute burlap bagging. 309,386; Jan. 9; Serial No. 330,484; published Oct. 24, 1933. Class 42.

Merrimac Chemical Company, Inc., Everett, Mass. Germicides, disinfectants, deodorants, etc. 309,363; Jan. 9; Serial No. 339,338; published Oct. 17, 1933. Class 6.

Merritt, Inc., Atlanta, Ga. Preparation for the treatment of stomach disorders. 309,403; Jan. 9; Serial No. 338,287; published Oct. 17, 1933. Class 6.

Miles, F. J. M., doing business as C. R. C. Company, Sunland, Calif. Toilet creams. 309,291; Jan. 9; Serial No. 340,748; published Oct. 17, 1933. Class 6.

Miller, Morris, New York, N. Y. Motor-lubricating oils and greases. 309,387; Jan. 9; Serial No. 330,578; published Oct. 31, 1933. Class 15.

Mock, Judson, Voehringer Co., Inc., Long Island City, N. Y. Stocking. 309,242; Jan. 9; Serial No. 340,581; published Oct. 3, 1933. Class 39.

Model Brassiere Co. Inc., Brooklyn, N. Y. Combination garments. 309,213; Jan. 9; Serial No. 341,557; published Oct. 24, 1933. Class 39.

Mod-Urn Coffee Service, Inc., Philadelphia, Pa. Coffee, coffee substitutes, and tea. 309,391; Jan. 9; Serial No. 329,958; published Oct. 31, 1933. Class 46.

Morse, Leopold, Company, Boston, Mass. Suits and overcoats. 97,263; renewed May 26, 1934.

NEA Service, Inc., Cleveland, Ohio. Comic strips in publications. 309,251; Jan. 9; Serial No. 341,638; published Oct. 24, 1933. Class 38.

Narrow Fabric Co., The, West Reading, Pa. Safety cord for stringing beads or necklaces. 309,341; Jan. 9; Serial No. 341,252; published Oct. 31, 1933. Class 28.

National Fireproofing Corporation, Pittsburgh, Pa. Calcined granular diatomaceous earth. 309,224; Jan. 9; Serial No. 341,435; published Oct. 24, 1933. Class 12.

National Fireproofing Corporation, Pittsburgh, Pa. Clay conduit pipe. 309,225; Jan. 9; Serial No. 341,436; published Oct. 24, 1933. Class 12.

National Insecticide Corporation, Tallahassee, Fla. Insecticides and fungicides. 309,295; Jan. 9; Serial No. 336,161; published Oct. 24, 1933. Class 6.

Neiman-Marcus Company, Dallas, Tex. Clothing. 309,261; Jan. 9; Serial No. 340,808; published Oct. 24, 1933. Class 39.

Neptune Trading Corporation, New York, N. Y. Bath salts and a water softener. 309,239; Jan. 9; Serial No. 340,583; published Oct. 17, 1933. Class 6.

Neustadti Brewing Corp., New York, N. Y. Beer. 309,250; Jan. 9; Serial No. 341,691; published Oct. 31, 1933. Class 48.

New York and London Drug Co. (See Nyal Company, assignor.)

Nofreezatol, Inc., Denver, Colo. Radiator treating compounds. 309,240; Jan. 9; Serial No. 340,584; published Oct. 17, 1933. Class 6.

Northrop & Lyman Company, Limited, Toronto, Ontario, Canada. Antiseptic liniment. 309,263; Jan. 9; Serial No. 340,987; published Oct. 24, 1933. Class 6.

Norton Company, Worcester, Mass. Granular abrasive material. 309,293; Jan. 9; Serial No. 335,968; published Oct. 24, 1933. Class 4.

Nyal Company, as assignee of New York and London Drug Co., New York, N. Y., assignor to Nyal Company, Detroit, Mich. Antiseptic throat pastils. 97,266; renewed May 26, 1934.

Ogene Company. (See Gambill, Wm. M.)

Ohio Laboratories, Incorporated, Columbus, Ohio. Cleaning compounds. 309,339; Jan. 9; Serial No. 341,209; published Oct. 31, 1933. Class 4.

Olidom Publishing Company, Bayonne, N. J. Publication. 309,262; Jan. 9; Serial No. 340,810; published Oct. 24, 1933. Class 38.

Old Gilmore Distillery, Inc., New York, N. Y. Whiskey. 309,426; Jan. 9. Class 49.

Old Gilmore Distillery, Inc., New York, N. Y. Whiskey. 309,429; Jan. 9. Class 49.

Oleothesin Company, Inc., The, Buffalo, N. Y. Healing and anæsthetic ointment. 309,272; Jan. 9; Serial No. 340,654; published Oct. 17, 1933. Class 6.

Olympia Laboratory, The, New Orleans, La. Prophylactic rubber articles. 309,408; Jan. 9; Serial No. 336,914; published July 4, 1933. Class 44.

Onondaga Pottery Company, Syracuse, N. Y. China and porcelain table ware, both domestic and commercial. 309,342; Jan. 9; Serial No. 341,254; published Oct. 24, 1933. Class 30.

Oxweld Acetylene Company, Chicago, Ill., to Oxweld Acetylene Company, New York, N. Y. Gas generators, acetylene blowpipes, and cutting torches. 95,653; renewed Mar. 3, 1934.

Paskin, Louis, New York, N. Y. Perfumes, face powders, rouges, etc. 309,273; Jan. 9; Serial No. 340,554; published Oct. 17, 1933. Class 6.

Patterson-Sargent Company, The, Cleveland, Ohio. Varnish. 95,556; renewed Feb. 24, 1934.

Patterson-Sargent Company, The, Cleveland, Ohio. Paints, enamels, stains, and varnishes. 96,331; renewed Apr. 14, 1934.

Pedigo-Lake Shoe Co., St. Louis, Mo. Shoes. 309,349; Jan. 9; Serial No. 341,338; published Oct. 24, 1933. Class 39.

Pen-Chlor, Inc., Philadelphia, Pa. Calcium hypochloride. 309,264; Jan. 9; Serial No. 340,772; published Oct. 24, 1933. Class 6.

Penn-O-Tex Oil Company, Minneapolis, Minn. Oils. 309,425; Jan. 9. Class 15.

Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. 309,299; Jan. 9; Serial No. 341,029; published Oct. 31, 1933. Class 15.

Perey Manufacturing Company, Inc., New York, N. Y. Turnstiles and like passage-controlling gates of the rotary type. 309,247; Jan. 9; Serial No. 341,694; published Oct. 31, 1933. Class 23.

Perrine Quality Products Corporation, Waltham, Mass. Storage batteries and their parts. 309,361; Jan. 9; Serial No. 316,333; published Oct. 31, 1933. Class 21.

Petersen, P. F., Baking Company, Omaha, Nebr. Bread. 309,356; Jan. 9; Serial No. 326,909; published Oct. 24, 1933. Class 46.

Petroleum Oil Interests, Inc. (See Watt, James A.)

Pickups Limited, London, England. Medicated preparations. 309,282; Jan. 9; Serial No. 340,953; published Oct. 24, 1933. Class 6.

Pioneer Chemical Works, Inc., Chicago, Ill. Hand fire extinguishers. 309,390; Jan. 9; Serial No. 330,019; published Oct. 31, 1933. Class 23.

Pioneer Suspender Company, Philadelphia, Pa. Braces (suspenders). 309,214; Jan. 9; Serial No. 341,559; published Oct. 24, 1933. Class 39.

Potter and Moore Limited, London, England. Pastes, powders, creams, astringents, etc. 309,359; Jan. 9; Serial No. 322,782; published Mar. 29, 1932. Class 6.

Price, Killian A., doing business as Kappa Products Co., Hickory, N. C. Prophylactic preparations to be used in a douche. 309,226; Jan. 9; Serial No. 341,439; published Oct. 31, 1933. Class 6.

Progress Corporation, Dover, Del. Shoe polish. 309,231; Jan. 9; Serial No. 341,376; published Oct. 31, 1933. Class 4.

Pschorrbräu Aktiengesellschaft München, Munich, Germany. Malt beverages. 309,366; Jan. 9; Serial No. 339,326; published Oct. 31, 1933. Class 48.

Pumarejo, Miguel L., New York, N. Y. Green coffee beans. 309,270; Jan. 9; Serial No. 340,694; published Oct. 31, 1933. Class 46.

Putnam, Deyo W., doing business as Hammondsport Wine Co., Hammondsport, N. Y. Wines. 309,195; Jan. 9; Serial No. 339,878; published Oct. 31, 1933. Class 47.

Pyratone Products Corporation, Chicago, Ill. Impregnated or treated wood. 309,332; Jan. 9; Serial No. 339,983; published Oct. 17, 1933. Class 12.

Q-Tips, Inc., New York, N. Y. Swabs. 309,256; Jan. 9; Serial No. 341,566; published Oct. 31, 1933. Class 44.

Rand Rubber Company, Inc., Brooklyn, N. Y. Dress shields. 309,267–8; Jan. 9; Serial Nos. 340,723–4; published Oct. 24, 1933. Class 40.

Ritz Chemical Company. (See Schwartz, Walter L.)

Roalstad, David A., Chicago, Ill. Clarinet, saxophone, oboe, etc. 309,345; Jan. 9; Serial No. 341,306; published Oct. 24, 1933. Class 36.

Roseman, Samuel V., doing business as Samuel V. Roseman Co., New York, N. Y. Sewing threads. 309,227; Jan. 9; Serial No. 341,407; published Oct. 24, 1933. Class 43.

Rudy Furnace Company, Dowagiac, Mich. Water coils for furnaces. 309,350; Jan. 9; Serial No. 341,344; published Oct. 31, 1933. Class 34.

Ryerson, Joseph T., & Son, to Joseph T. Ryerson & Son, Incorporated, successor, Chicago, Ill. Books. 95,265; renewed Feb. 3, 1934.

Salts of Silcam Co., Portland, Oreg. Mineral concentrates of natural mineral water. 309,343; Jan. 9; Serial No. 341,258; published Oct. 31, 1933. Class 6.

Salvoc Limited, London, England. Optical lenses and glasses for spectacles, goggles, etc. 309,288; Jan. 9; Serial No. 340,928; published Oct. 31, 1933. Class 26.

Sameth Exterminating Company, Inc., New York, N. Y. Product for the killing of or extermination of roaches, ants, mice, etc. 309,407; Jan. 9; Serial No. 337,576; published Oct. 17, 1933. Class 6.

Scheuer, Samuel, New York, N. Y. Hats and caps. 309,351; Jan. 9; Serial No. 341,345; published Oct. 24, 1933. Class 39.

Schlosser Brothers, Frankfort, Ind. Ice cream, milk, sweet cream, etc. 309,370; Jan. 9; Serial No. 339,205; published Oct. 24, 1933. Class 46.

Schott & Gen., by change of name to Jenaer Glaswerk Schott & Gen., Jena, Germany. Glass. 94,493; renewed Dec. 9, 1933.

Schwartz, Walter L., doing business as Ritz Chemical Company of New Jersey, Newark, N. J. Chemical preparation. 309,259; Jan. 9; Serial No. 340,815; published Oct. 24, 1933. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Dehorners. 309,269; Jan. 9; Serial No. 340,659; published Oct. 24, 1933. Class 23.

Shapiro, Max C., Beverly Hills, Calif. Chewing gum. 309,367; Jan. 9; Serial No. 339,207; published Sept. 5, 1933. Class 46.

Sherman, Carroll J., Indianapolis, Ind. Chemical for treating liquid hydrocarbons. 309,325; Jan. 9; Serial No. 340,271; published Oct. 24, 1933. Class 6.

Sherman, Hyman E., Chicago, Ill. Polish and cleaner. 309,205; Jan. 9; Serial No. 340,908; published Oct. 24, 1933. Class 16.

Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides and fungicides. 309,220; Jan. 9; Serial No. 341,498; published Oct. 24, 1933. Class 6.

Smith, Bradner, & Company, Chicago, Ill. Paper and envelops. 96,357; renewed Apr. 14, 1934.

Socony-Vacuum Corporation. (See Standard Oil Company of New York.)

Socony-Vacuum Specialties, Inc., New York, N. Y. Insecticide. 309,414; Jan. 9; Serial No. 341,776; published Nov. 7, 1933. Class 6.

Sorries, Gillespie and Taylor, Bronxville, N. Y. Lumber and veneer. 309,324; Jan. 9; Serial No. 340,292; published Oct. 17, 1933. Class 12.

Spalding, A. G., & Bros., New York, N. Y., to A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Implements, apparatus, and articles used in athletic games or sports. 96,361; renewed Apr. 14, 1934.

Spears, Catesby W., Paris, Ky. Whiskey. 309,257; Jan. 9; Serial No. 340,820; published Sept. 26, 1933. Class 49.

Spears, Catesby W., Paris, Ky. Whiskey. 309,260; Jan. 9; Serial No. 340,818; published Oct. 3, 1933. Class 49.

Spector, Max S., Brooklyn, N. Y. Polishes and waxes. 309,212; Jan. 9; Serial No. 341,562; published Oct. 31, 1933. Class 16.

Springdale Mayonnaise Company. (See Guilbert, Emery J.)

Standard Brands Incorporated, New York, N. Y. Cream of tartar. 309,292; Jan. 9; Serial No. 340,756; published Oct. 17, 1933. Class 6.

Standard Brands Incorporated, New York, N. Y. Frozen eggs, frozen egg whites, and frozen egg yolks. 309,361; Jan. 9; Serial No. 341,034; published Oct. 24, 1933. Class 46.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Denaturants. 309,204; Jan. 9; Serial No. 340,902; published Oct. 24, 1933. Class 6.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Denaturants. 309,207; Jan. 9; Serial No. 340,901; published Oct. 24, 1933. Class 6.

Standard Oil Company of New York, by change of name to Socony-Vacuum Corporation, New York, N. Y. Refined petroleum for illuminating and power purposes. 94,402; renewed Dec. 2, 1933.

Standard Oil Company of New York, by change of name to Socony-Vacuum Corporation, New York, N. Y. Petroleum. 94,498; renewed Dec. 9, 1933.

Steel and Tubes, Inc., Cleveland, Ohio. Boiler and condenser tubes. 309,248; Jan. 9; Serial No. 341,702; published Oct. 31, 1933. Class 34.
Stevenson, Charles R., New York, N. Y. Tires. 309,210; Jan. 9; Serial No. 340,849; published Oct. 24, 1933. Class 35.
Steward, D. M., Mfg. Co., Chattanooga, Tenn. Spark plugs. 309,276; Jan. 9; Serial No. 341,813; published Oct. 31, 1933. Class 21.
Storm, Raymond W., doing business as Storm Flooring Company, New York, N. Y. Floor mastic. 309,311; Jan. 9; Serial No. 341,142; published Oct. 17, 1933. Class 12.
Storm, Raymond W., doing bulsness as Storm Flooring Company, New York, N. Y. Floor finish. 309,312; Jan. 9; Serial No. 341,144; published Oct. 31, 1933. Class 16.
Stransky Products Corporation, New York, N. Y. Metal hangers and hooks. 309,221; Jan. 9; Serial No. 341,448; published Oct. 31, 1933. Class 13.
Stroehmann Brothers Company, Harrisburg, Pa. Bread. 309,237; Jan. 9; Serial No. 340,587; published Oct. 24, 1933. Class 46.
Strohmeyer & Arpe Company, New York, N. Y. Foods. 96,207; renewed Apr. 7, 1934.
Studio Publications, Inc., The, New York, N. Y. Magazines and also books relating to art subjects, drawings, etc. 309,300; Jan. 9; Serial No. 341,033; published Oct. 24, 1933. Class 38.
Sunical Packing Company, San Francisco, Calif. Canned fruits. 309,371; Jan. 9; Serial No. 339,008; published Oct. 24, 1933. Class 46.
Tak, Pronounced "Tack", Inc., Newark, N. J. Mild adhesive preparation for the hands to secure gripping of tools, etc. 309,399; Jan. 9; Serial No. 338,624; published Oct. 31, 1933. Class 5.
Tennessee Eastman Corporation, Kingsport, Tenn. Gelatine size. 309,376; Jan. 9; Serial No. 334,621; published May 2, 1933. Class 6.
Texas Company, The, New York, N. Y. Auto body cleaner, metal polish, brake dressing soap, etc. 309,197; Jan. 9; Serial No. 339,689; published Oct. 31, 1933. Class 4.
Texas Company, The, New York, N. Y. Electrical car heaters, electric fuses, spark plugs, etc. 309,199; Jan. 9; Serial No. 339,612; published Oct. 31, 1933. Class 21.
Texas Company, The, New York, N. Y. Auto body polish, paint thinners, etc. 309,283; Jan. 9; Serial No. 340,957; published Oct. 31, 1933. Class 16.
Thompson, Sara G., Morristown, N. J. Face creams and lotions. 309,402; Jan. 9; Serial No. 338,127; published Oct. 31, 1933. Class 6.
Tower Magazine, Inc., Wilkes-Barre, Pa., and New York, N. Y. Periodical. 309,258; Jan. 9; Serial No. 341,565; published Oct. 24, 1933. Class 38.
Trade Laboratories, Inc., The, Newark, N. J. Dental cream. 309,415; Jan. 9. Class 6.
Tweedy, James K., Downey, Calif. Citrus fruits. 97,291; renewed May 26, 1934.
Union Sandpaper Company. (See American Glue Company, assignor.)
United Autographic Register Co., Chicago, Ill. Autographic registers. 309,321–2; Jan. 9; Serial Nos. 340,327–8; published Oct. 24, 1933. Class 37.
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey. 309,424; Jan. 9. Class 49.
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey. 309,427; Jan. 9. Class 49.
United Lens Corporation, Detroit, Mich. Electric lighting apparatus and visual indicating systems, and parts thereof. 309,405; Jan. 9; Serial No. 338,022; published Oct. 31, 1933. Class 21.
United States Leather Selling Corporation, The. (See Allen's, N. R., Sons Company, assignor.)
Valentine & Company, New York, N. Y. Enamels, paints, varnishes, and varnish-removers. 97,293; renewed May 26, 1934.
Verkaufsstelle der Vereinigten Deutschen Drahtgeflecht-Fabrikanten Gesellschaft mit beschränkter Haftung, Cologne, by change of name to Verkaufsstelle des Verbandes Deutscher Drahtgeflecht-Fabrikanten G. m. b. H., Dusseldorf, Germany. Wire netting. 41,727; renewed Dec. 22, 1933.
Vildor Company. (See Carson, Albert.)
Vitana Company, The, Portland, Oreg. Banana and plantain products and other products containing the same. 309,383; Jan. 9; Serial No. 333,020; published Oct. 31, 1933. Class 46.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Snap buttons. 89,784; renewed Jan. 7, 1933.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Silk underwear. 309,303; Jan. 9; Serial No. 341,063; published Oct. 24, 1933. Class 39.
Watt, James A., doing business as Petroleum Oil Interests, Inc., Oklahoma City, Okla. Gasoline and lubricating oils and greases, exclusive of kerosene. 309,196; Jan. 9; Serial No. 339,618; published Oct. 31, 1933. Class 15.
Wausau Brewing Company, Wausau, Wis. Beer. 309,309; Jan. 9; Serial No. 341,107; published Oct. 31, 1933. Class 48.
Wayne Knitting Mills, Fort Wayne, Ind. Hose. 94,965; renewed Jan. 13, 1934.
Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. 309,347–8; Jan. 9; Serial Nos. 341,315–16; published Oct. 24, 1933. Class 39.
Weeks, D., & Company, Des Moines, Iowa. Preparation for the treatment of colds. 309,313; Jan. 9; Serial No. 340,500; published Oct. 24, 1933. Class 6.
Western Auto Supply Company, Kansas City, Mo. Tires. 309,354; Jan. 9; Serial No. 329,164; published Oct. 24, 1933. Class 35.
Westinghouse X-Ray Company, Inc., Long Island City, N. Y. X-ray opaque tube shields and electrical insulators. 309,222; Jan. 9; Serial No. 341,466; published Oct. 24, 1933. Class 21.
Whitcraft, S. Maurice, doing business as Carbonated Health Co., Webster Groves, Mo. Maltless beverages and syrups for making same. 309,318; Jan. 9; Serial No. 340,422; published Oct. 31, 1933. Class 45.
Whitehead & Hoag Company, The, Newark, N. J. Advertising novelties. 42,526; renewed May 3, 1934.
Whittall, Matthew J., to M. J. Whittall Associates Ltd., successor, Worcester, Mass. Carpets and rugs. 95,027; renewed Jan. 20, 1934.
Whittier Select Citrus Association, Whittier, Calif. Fresh citrus fruits. 309,382; Jan. 9; Serial No. 332,797; published Oct. 24, 1933. Class 46.
Williams, J. B., Company, The, Glastonbury, Conn. Shaving cream. 309,346; Jan. 9; Serial No. 341,312; published Oct. 24, 1933. Class 4.
Wood Briquettes, Inc., Lewiston, Idaho. Fuel briquettes or densely compressed cylinders, chunks, or fuel blocks. 309,316; Jan. 9; Serial No. 340,457; published Oct. 24, 1933. Class 1.
Wurlitzer Grand Piano Company, De Kalb, Ill. Boats. 309,397; Jan. 9; Serial No. 338,708; published Oct. 31, 1933. Class 19.
Younghusband, James L., Chicago, Ill. Eyelash curlers. 309,249; Jan. 9; Serial No. 341,672; published Oct. 31, 1933. Class 44.
Zapon Company, The, Wilmington, Del. Waterproofed rayon flock fabric. 309,245–6; Jan. 9; Serial Nos. 341,706–7; published Oct. 31, 1933. Class 50.
Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Photographic apparatus. 309,217; Jan. 9; Serial No. 341,528; published Oct. 24, 1933. Class 26.
Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Gum, glue, or paste. 309,200; Jan. 9; Serial No. 339,483; published Oct. 24, 1933. Class 5.

LIST OF REGISTRANTS OF LABELS

American Pop Corn Company, Sioux City, Iowa. Tip Top Hulless Pop Corn. For Pop Corn. 43,090; Jan. 9.
Baltimore Brewing Co., The, Baltimore, Md. Baltimore Brew Special. For Beer of the Legal Alcoholic Content. 43,091; Jan. 9.
Bird & Son, Inc., East Walpole, Mass. Lynwood. For Shoes. 43,092; Jan. 9.
Brooks Paper Company, St. Louis, Mo. Cellophane Icicles. For Shredded Cellophane Christmas Tree Decorations. 43,093; Jan. 9.
Burgess Battery Company, Madison, Wis. Burgess B and C Radio Battery. For Electric Batteries. 43,094; Jan. 9.
Golden, Augustus J., Baltimore, Md. Hold-Outs. For Cigars. 43,095; Jan. 9.
Goodman, A., & Sons, Inc., New York, N. Y. Goodman's. For Flavored Matzo Crackers. 43,096; Jan. 9.
Innes, Irvine, Minneapolis, Minn. Stenselet. For Device for Printing by Hand Through a Stencil. 43,097; Jan. 9.
Meyer, Frank C., Co. Inc., Brooklyn, N. Y. Stern Brothers. For Shoes. 43,098; Jan. 9.
Meyer, Frank C., Co. Inc., Brooklyn, N. Y. Vassar Girl. For Shoes. 43,099; Jan. 9.
Meyer, Frank C., Co. Inc., Brooklyn, N. Y. The Blum Store. For Shoes. 43,100; Jan. 9.
Meyer, Frank C., Co. Inc., Brooklyn, N. Y. Kramers Juvenile Boot Shops Inc. For Shoes. 43,101; Jan. 9.
Monite Waterproof Glue Co., Minneapolis, Minn. Monite Casein Cold Glue. For Glue. 43,102; Jan. 9.
My-T-Fine Corporation, Brooklyn, N. Y. My-T-Fine Filling. For Mixture of Ingredients to be Used in Making Pumpkin Pie. 43,103; Jan. 9.
New England Importation Company, Boston, Mass. Muri Brand. For Imported Grated Cheese. 43,104; Jan. 9.
Tested Products Laboratories Inc., Boston, Mass. Placidan. For Acid Dyspepsia. 43,105; Jan. 9.

CARNEGIE LIBRARY OF ATLANTA

LIST OF REGISTRANTS OF PRINTS

Cover Gas & Oil Company, Salt Lake City, Utah. Both Miles and Money ahead. For Gasoline. 14,497; Jan. 9.
Rosenow Company, Chicago, Ill. Display Card for Iso-Vis D Anti-Sludge Motor Oil. For Motor Oil. 14,498; Jan. 9.
Scholl Mfg. Co., Inc., The, Chicago, Ill. Dr. Scholl's. For Foot Appliances and Remedies. 14,499; Jan. 9.
Scholl Mfg. Co., Inc., The, Chicago, Ill. Dr. Scholl's Zino-Pads. For Corn Pads. 14,500; Jan. 9.
Stahl-Meyer, Inc., Brooklyn, N. Y. Cocktail Style Frankfurts. For Frankfurters. 14,501; Jan. 9.
Stahl-Meyer, Inc., Brooklyn, N. Y. Cocktail Style Sausages. For Sausages. 14,502; Jan. 9.
Stearns & Foster Co., The, Cincinnati and Lockland, Ohio. Poinsettia. For Quilting Cotton. 14,503; Jan. 9.
Stearns & Foster Co., The, Cincinnati and Lockland, Ohio. Virginia Reel. For Quilting Cotton. 14,504; Jan. 9.
Stearns & Foster Co., The, Cincinnati and Lockland, Ohio. Tulip Bowl. For Quilting Cotton. 14,505; Jan. 9.
Ward Baking Company, New York, N. Y. Ward's Soft Bun Bread. For Bread. 14,506; Jan. 9.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Clay and fuller's earth, etc., Ground amorphous raw. Earthen Products Company. 309,364; Jan. 9; Serial No. 339,350; published Oct. 24, 1933.
Clay, Modeling. American Crayon Company. 309,192; Jan. 9; Serial No. 339,921; published Oct. 31, 1933.
Coal. Koppers Company of Delaware. 309,360; Jan. 9; Serial No. 325,914; published Oct. 24, 1933.
Fuel briquettes or densely compressed cylinders, chunks, or fuel blocks. Wood briquettes, Inc. 309,316; Jan. 9; Serial No. 340,457; published Oct. 24, 1933.
Leather strips. N. R. Allen's Sons Company. 94,707; renewed Dec. 30, 1933.
Plastic compositions. Catalin Corporation of America. 309,385; Jan. 9; Serial No. 332,250; published Oct. 24, 1933.
Skins, Dyed. American Fur Dyeing Company. 309,331; Jan. 9; Serial No. 340,028; published Oct. 24, 1933.

CLASS 2

Baskets, Shipping. Kleckhefer Container Company. 309,344; Jan. 9; Serial No. 341,263; published Oct. 31, 1933.
Chests or boxes made of base metal. Master Metal Products, Inc. 309,416; Jan. 9.
Cups and plates, Paper. S. H. Kress & Co. 309,419; Jan. 9.
Silos, storage pockets and tanks, and bins. Craine, Inc. 309,306; Jan. 9; Serial No. 341,079; published Oct. 31, 1933.
Tanks, silos, and coal pockets, Storage. Craine, Inc. 309,305; Jan. 9; Serial No. 341,077; published Oct. 31, 1933.

CLASS 4

Abrasive material, Granular. Norton Company. 309,293; Jan. 9; Serial No. 335,968; published Oct. 24, 1933.
Cleaner and dry powder, Waterless. Dorann Chemical Co. 309,310; Jan. 9; Serial No. 341,117; published Oct. 24, 1933.
Cleaner, metal polish, brake dressing soap, etc., Auto body. Texas Company. 309,197; Jan. 9; Serial No. 339,689; published Oct. 31, 1933.
Cleaning and polishing compound. Keene Washing Products Company. 309,362; Jan. 9; Serial No. 317,896; published Oct. 31, 1933.
Cleaning compounds. Ohio Laboratories, Incorporated. 309,339; Jan. 9; Serial No. 341,209; published Oct. 31, 1933.
Polish, Shoe. Progress Corporation. 309,231; Jan. 9; Serial No. 341,376; published Oct. 31, 1933.
Preparation recommended as a cleansing agent. Lehn & Fink, Inc. 309,193; Jan. 9; Serial No. 339,973; published Oct. 31, 1933.
Sandpapers, garnet-papers, emery-papers, and emery cloths. American Glue Company. 94,709; renewed Dec. 30, 1933.
Scouring powder. Gleam Products Corporation. 309,232; Jan. 9; Serial No. 341,363; published Oct. 24, 1933.
Shaving cream. J. B. Williams Company. 309,346; Jan. 9; Serial No. 341,312; published Oct. 24, 1933.

CLASS 5

Adhesive preparation for the hands to secure gripping of tools, etc. Mild Tak, Pronounced "Tack", Inc. 309,399; Jan. 9; Serial No. 338,624; published Oct. 31, 1933.
Gum, glue, or paste. Zellstoffabrik Waldhof. 309,200; Jan. 9; Serial No. 339,483; published Oct. 24, 1933.

CLASS 6

Antiseptic and mouth wash, douche powder, tooth paste, antiseptic concentrate. R. Lawry. 309,330; Jan. 9; Serial No. 340,047; published Oct. 31, 1933.
Antiseptic throat-pastils. Nyal Company. 97,266; renewed May 26, 1934.
Astringents, astringent cerates, bleach and beauty creams, etc. J. N. McMath. 309,287; Jan. 9; Serial No. 340,921; published Oct. 24, 1933.
Brake fluid, Hydraulic. Johnson Oil Refining Company. 309,327; Jan. 9; Serial No. 340,258; published Oct. 17, 1933.
Calcium hypochloride, Pen-Chlor, Inc. 309,264; Jan. 9; Serial No. 340,772; published Oct. 24, 1933.
Chemical for treating hydrocarbons. C. J. Sherman. 309,325; Jan. 9; Serial No. 340,271; published Oct. 24, 1933.
Chemical lime. Ash Grove Lime & Portland Cement Company. 309,395; Jan. 9; Serial No. 338 861; published Oct. 17, 1933.
Chemical preparation. W. L. Schwartz. 309,259; Jan. 9; Serial No. 340,815; published Oct. 24, 1933.
Compound containing various minerals for corrective purposes. Makers of Kal, Inc. 309,294; Jan. 9; Serial No. 336,090; published Oct. 31, 1933.
Cream, Cosmetic. Elizabeth Arden, Inc. 309,323; Jan. 9; Serial No. 340,300; published Oct. 17, 1933.
Cream, Dental. Trade Laboratories, Inc. 309,415; Jan. 9.
Cream for treatment of burns, scalds, etc., Antiseptic, soothing, and healing. Ayer Company. 309,315; Jan. 9; Serial No. 340,464; published Oct. 17, 1933.
Cream of tartar. Standard Brands Incorporated. 309,292; Jan. 9; Serial No. 340,756; published Oct. 17, 1933.
Creams and lotions. S. G. Thompson. 309,402; Jan. 9; Serial No. 338,127; published Oct. 31, 1933.
Creams, Toilet. F. J. M. Miles. 309,291; Jan. 9; Serial No. 340,748; published Oct. 17, 1933.
Crystals, Mineral water. Excelsior Springs Mineral Water Crystals Company. 309,353; Jan. 9; Serial No. 329,259; published Oct. 25, 1932.
Denaturants. Standard Oil Company of California. 309,204; Jan. 9; Serial No. 340,902; published Oct. 24, 1933.
Denaturants. Standard Oil Company of California. 309,207; Jan. 9; Serial No. 340,901; published Oct. 24, 1933.
Dye aids, Chemical. H. Th. Böhme Aktiengesellschaft. 309,277; Jan. 9; Serial No. 340,530; published Oct. 17, 1933.
Emolient, Skin. W. B. Hoy. 309,432; Jan. 9.
Emulsion of aluminum acetate. Arkansas Company Inc. 309,244; Jan. 9; Serial No. 340,565; published Oct. 17, 1933.
Gelatine size. Tennessee Eastman Corporation. 309,376; Jan. 9; Serial No. 334 621; published May 2, 1933.
Germicides, disinfectants, deodorants, etc. Merrimac Chemical Company. 309,363; Jan. 9; Serial No. 339,338; published Oct. 17, 1933.
Hair bleach. Hydrox Chemical Company. 309,254; Jan. 9; Serial No. 341,629; published Oct. 31, 1933.
Hair dress and face lotion. W. M. Gambill. 309,215; Jan. 9; Serial No. 341,550; published Oct. 24, 1933.
Hypochlorite solutions. Germicide Products Corporation. 309,233–4; Jan. 9; Serial Nos. 340,614–15; published Oct. 17, 1933.
Insecticide. Socony-Vacuum Specialties, Inc. 309,414; Jan. 9; Serial No. 341,776; published Nov. 7, 1933.
Insecticides and fungicides. National Insecticide Corporation. 309,295; Jan. 9; Serial No. 336,161; published Oct. 24, 1933.
Insecticides and fungicides. Sherwin-Williams Company. 309,220; Jan. 9; Serial No. 341,498; published Oct. 24, 1933.
Insecticides and herbicides. California Spray-Chemical Corporation. 309,238; Jan. 9; Serial No. 340,591; published Oct. 31, 1933.
Javelle wash and bleaching preparation. Albo Wash Fluid Company. 309,296; Jan. 9; Serial No. 336,168; published Oct. 31, 1933.
Liniment, Antiseptic. Northrop & Lyman Company. 309,263 Jan. 9; Serial No. 340,987; published Oct. 24, 1933.
Lipstick, face cream, lotion, powder, and rouge. A. Carson. 309,211; Jan. 9; Serial No. 340,859; published Oct. 17, 1933.
Magnesia. Laboratorio Chimico Farmaceutico Moderno di Torino Società in Accomandita Semplice di E. Granelli & C. 309,400; Jan. 9; Serial No. 338,374; published Oct. 17, 1933.

Medical preparation. Histeen Corporation. 309,265; Jan. 9; Serial No. 340,741; published Oct. 24, 1933.
Medicated preparations. Pickups Limited. 309,282; Jan. 9; Serial No. 340,953; published Oct. 24, 1933.
Medicine and nutritive preparation containing yeast, vitamins, etc. California Yeast Products Corporation. 309,404; Jan. 9; Serial No. 337,830; published Oct. 24, 1933.
Mineral concentrates of natural mineral water. Salts of Siloam Co. 309,348; Jan. 9; Serial No. 341,258; published Oct. 31, 1933.
Ointment, Healing and anæsthetic, Oleothesin Company. 309,272; Jan. 9; Serial No. 340,654; published Oct. 17, 1933.
Ointment, Medicated. P. K. Guthrie. 309,365; Jan. 9; Serial No. 339,308; published Oct. 24, 1933.
Pastes, powders, creams, astringents, etc. Potter and Moore Limited. 309,359; Jan. 9; Serial No. 322,782; published Mar. 29, 1932.
Perfume, toilet water, powder, rouge, brilliantine, compacts, etc. Houbigant, Inc. 309,266; Jan. 9. Serial No. 340,743; published Oct. 17, 1933.
Perfumes, face powders, rouges, etc. L. Paskin. 309,273; Jan. 9. Serial No. 340,554; published Oct. 17, 1933.
Phosphate of calcium, Monoacid. E. D. Furnish. 309,201; Jan. 9; Serial No. 339,492; published Oct. 24, 1933.
Powder and rouge, Paste. L. E. Churchill. 309,389; Jan. 9. Serial No. 330,536; published Oct. 17, 1933.
Preparation for disinfecting brewery equipment. Elektro-Osmose A. G. 309,412; Jan. 9; Serial No. 340,522; published Oct. 24, 1933.
Preparation for the treatment of colds. D. Weeks & Company. 309,313; Jan. 9; Serial No. 340,500; published Oct. 24, 1933.
Preparation for the treatment of stomach disorders. Merritt, Inc. 309,403; Jan. 9; Serial No. 338,287; published Oct. 17, 1933.
Product for the killing of or extermination of roaches, ants, mice, etc. Sameth Exterminating Company. 309,407; Jan. 9; Serial No. 337,576; published Oct. 17, 1933.
Prophylactic preparations to be used in a douche. K. A. Price. 309,226; Jan. 9; Serial No. 341,439; published Oct. 31, 1933.
Radiator treating compounds. Nofreezatol, Inc. 309,240; Jan. 9; Serial No. 340,584; published Oct. 17, 1933.
Reagent paper. Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich. 309,396; Jan. 9; Serial No. 338,598; published Oct. 17, 1933.
Rubber compounding material. Barrett Company. 309,285; Jan. 9; Serial No. 340,943; published Oct. 24, 1933.
Salts and a water softener, Bath. Neptune Trading Corporation. 309,239; Jan. 9; Serial No. 340,583; published Oct. 17, 1933.
Salve, Medicated. D. K. Kerr. 309,379; Jan. 9; Serial No. 334,133; published Oct. 24, 1933.
Salves and ointments. Libit Chemical Co. Inc. 309,235; Jan. 9; Serial No. 340,600; published Oct. 24, 1933.
Spray, Plant. H. Heidenhain. 309,209; Jan. 9; Serial No. 340,875; published Oct. 24, 1933.
Starch. Keever Starch Company. 95,436; renewed Feb. 17, 1934.
Starch, Coloring. Coloring Starch Co. Inc. 309,194; Jan. 9; Serial No. 339,708; published Oct. 24, 1933.
Tanning materials and chemical products suitable for tanning purposes. Geigy Company, Inc. 309,202; Jan. 9. Serial No. 340,916; published Oct. 24, 1933.
Toilet preparations. Holly Leslie, Inc. 309,206; Jan. 9; Serial No. 340,886; published Oct. 24, 1933.
Toilet preparations and cosmetics. A. Gould. 309,337; Jan. 9; Serial No. 341,199; published Oct. 31, 1933.
Tooth paste. D. D. Hyman. 309,275; Jan. 9; Serial No. 340,535; published Oct. 31, 1933.
Vegetable oil for textile dyeing and finishing. Arkansas Company Inc. 309,241; Jan. 9; Serial No. 340,566; published Oct. 17, 1933.

CLASS 9

Matches. Diamond Match Company. 309,352; Jan. 9; Serial No. 341,358; published Oct. 31, 1933.

CLASS 12

Board with tile-form indentations. Masonite Corporation. 309,298; Jan. 9; Serial No. 341,026; published Oct. 17, 1933.
Diatomaceous earth, Calcined granular. National Fireproofing Corporation. 309,224; Jan. 9; Serial No. 341,435; published Oct. 24, 1933.
Floor mastic. R. W. Storm. 309,311; Jan. 9; Serial No. 341,142; published Oct. 17, 1933.
Lumber and veneer. Sorries, Gillespie and Taylor. 309,324; Jan. 9; Serial No. 340,292; published Oct. 17, 1933.
Pipe, Clay conduit. National Fireproofing Corporation. 309,225; Jan. 9; Serial No. 341,436; published Oct. 24, 1933.
Wood, Impregnated or treated. Pyratone Products Corporation. 309,332; Jan. 9; Serial No. 339,983; published Oct. 17, 1933.

CLASS 13

Hangers and hooks, Metal. Stransky Products Corporation. 309,221; Jan. 9; Serial No. 341,448; published Oct. 31, 1933.
Hardware, plumbing, and steam-fitting supplies. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 94,361; renewed Dec. 2, 1933.
Wire netting. Verkaufsstelle der Vereinigten Deutschen Drahtgeflecht-Fabrikanten Gesellschaft mit beschränkter Haftung. 41,727; renewed Dec. 22, 1933.

CLASS 14

Metals and goods made therefrom. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 94,435; renewed Dec. 9, 1933.

CLASS 15

Fuels, Liquid. Hall-Rattermann Oil Company. 309,388; Jan. 9; Serial No. 330,163; published Oct. 24, 1933.
Gasoline, lubricating oils, and greases, exclusive of kerosene. J. A. Watt. 309,196; Jan. 9; Serial No. 339,618; published Oct. 31, 1933.
Graphite concentrate and lubricating oils and greases containing same, Prepared. Franklin Oil Corporation. 309,219; Jan. 9; Serial No. 341,480; published Oct. 24, 1933.
Oils. Penn-O-Tex Oil Company. 309,425; Jan. 9.
Oils and greases, Lubricating. Coast 2 Coast Oil Company. 309,253; Jan. 9; Serial No. 341,624; published Oct. 24, 1933.
Oils and greases, Lubricating. Pennsylvania Lubricating Company. 309,299; Jan. 9; Serial No. 341,029; published Oct. 31, 1933.
Oils and greases, Motor-lubricating. M. Miller. 309,387; Jan. 9; Serial No. 330,578; published Oct. 31, 1933.
Petroleum. Standard Oil Company of New York. 94,498; renewed Dec. 9, 1933.
Petroleum, Refined. Standard Oil Company of New York. 94,402; renewed Dec. 2, 1933.

CLASS 16

Enamels, paints, varnishes, and varnish-removers. Valentine & Company. 97,293; renewed May 26, 1934.
Finish, Floor. R. W. Storm. 309,312; Jan. 9; Serial No. 341,144; published Oct. 31, 1933.
Paint base coats, paints, varnishes, etc. G. J. Liebich Co. 309,369; Jan. 9; Serial No. 339,192; published Oct. 24, 1933.
Paints, enamels, stains, and varnishes. Patterson-Sargent Company. 96,331; renewed Apr. 14, 1934.
Polish and cleaner. H. E. Sherman. 309,205; Jan. 9; Serial No. 340,908; published Oct. 24, 1933.
Polish, Automobile. Chandu Chemical Products Company. 309,236; Jan. 9; Serial No. 340,609; published Oct. 31, 1933.
Polish, paint thinners, etc., Auto body. Texas Company. 309,283; Jan. 9; Serial No. 340,957; published Oct. 31, 1933.
Polishes and waxes. M. S. Spector. 309,212; Jan. 9; Serial No. 341,562; published Oct. 31, 1933.
Varnish. Patterson-Sargent Company. 95,556; renewed Feb. 24, 1934.
Zinc for pigment purposes, Flaked. Hercules Powder Company. 309,289; Jan. 9; Serial No. 340,917; published Oct. 31, 1933.

CLASS 17

Cigars. Estabrook & Eaton Company. 309,280; Jan. 9; Serial No. 340,965; published Oct. 31, 1933.
Cigars. J. Mazer Sons Cigar Company. 309,302; Jan. 9; Serial No. 341,043; published Oct. 31, 1933.

CLASS 19

Airplanes. General Aviation Manufacturing Corporation. 309,373; Jan. 9; Serial No. 335,618; published Oct. 31, 1933.
Automobiles and structural parts thereof. Continental Automobile Company. 309,378; Jan. 9; Serial No. 334,030; published Oct. 24, 1933.
Boats. Wurlitzer Grand Piano Company. 309,397; Jan. 9; Serial No. 338,708; published Oct. 31, 1933.

CLASS 21

Batteries and their parts, Storage. Perrine Quality Products Corporation. 309,361; Jan. 9; Serial No. 316,333; published Oct. 31, 1933.
Electric lighting apparatus and visual indicating systems and parts thereof. United Lens Corporation. 309,405; Jan. 9; Serial No. 338,022; published Oct. 31, 1933.
Electric sadirons and percolators. Dover Manufacturing Company. 309,435; Jan. 9.
Electrical car heaters, electric fuses. Texas Company. 309,199; Jan. 9; Serial No. 339,612; published Oct. 31, 1933.
Insulating material. Cutler-Hammer Mfg. Co. 97,127; renewed May 19, 1934.
Spark plugs. D. M. Steward Mfg. Co. 309,276; Jan. 9; Serial No. 341,813; published Oct. 31, 1933.
Wires and cables. General Cable Corporation. 309,420; Jan. 9.
X-ray opaque tube shields and electrical insulators. Westinghouse X-Ray Company. 309,222; Jan. 9; Serial No. 341,466; published Oct. 24, 1933.

CLASS 22

Game of chance. R. I. Forbush. 309,281; Jan. 9; Serial No. 340,966; published Oct. 31, 1933.

Implements, apparatus, and articles used in athletic games or sports. A. G. Spalding & Bros. 96,361; renewed Apr. 14, 1934.
Toys, Paperboard set-up. Badger Carton Company. 309,333; Jan. 9; Serial No. 341,155; published Oct. 31, 1933.

CLASS 23

Dehorners. Sears, Roebuck and Co. 309,269; Jan. 9; Serial No. 340,659; published Oct. 24, 1933.
Fire extinguishers, Hand. Pioneer Chemical Works, Inc. 309,390; Jan. 9; Serial No. 330,019; published Oct. 31, 1933.
Machinery and tools and parth thereof. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 94,362; renewed Dec. 2, 1933.
Machines and parts thereof. International Harvester Company of New Jersey. 95,764; renewed Mar. 10, 1934.
Razors and safety razor blades, Safety. Atlas Safety Razor Company. 309,228; Jan. 9; Serial No. 341,417; published Oct. 24, 1933.
Turnstiles and like passage-controlling gates of the rotary type. Perey Manufacturing Company. 309,247; Jan. 9; Serial No. 341,694; published Oct. 31, 1933.

CLASS 24

Ironing board sets, nets, and ironing board covers. Calaway Mills. 309,335; Jan. 9; Serial No. 341,189; published Oct. 31, 1933.

CLASS 26

Lenses and glasses for spectacles, goggles, etc., Optical. Salvoc Limited. 309,288; Jan. 9; Serial No. 340,928; published Oct. 31, 1933.
Patterns, Paper dress. Conde Nast Publications, Inc. 309,418; Jan. 9.
Photographic apparatus. Zeiss Ikon Aktiengesellschaft. 309,217; Jan. 9; Serial No. 341,528; published Oct. 24, 1933.
Photographic paper and film, Sensitized. Anthony & Scovill. 41,689; renewed Dec. 22, 1933.
Pictures, Motion. Celebrity Productions, Inc. 309,314; Jan. 9; Serial No. 340,467; published Oct. 24, 1933.
Tape measures. Lufkin Rule Company. 309,377; Jan. 9; Serial No. 335,476; published Oct. 24, 1933.

CLASS 28

Safety cord for stringing beads or necklaces. Narrow Fabric Co. 309,341; Jan. 9; Serial No. 341,252; published Oct. 31, 1933.

CLASS 29

Brushes, dusters, and mops. A. C. Fuller. 95,537; renewed Feb. 24, 1934.

CLASS 30

China and porcelain table ware. Onondaga Pottery Company. 309,342; Jan. 9; Serial No. 341,254; published Oct. 24, 1933.

CLASS 32

Booth, Portable refreshment. E. M. Gerould. 309,401; Jan. 9; Serial No. 338,489; published Oct. 24, 1933.
Novelties, Advertising. Whitehead & Hoag Company. 42,526; renewed May 3, 1934.

CLASS 33

Glass, Raw. Schott & Gen. 94,493; renewed Dec. 9, 1933.

CLASS 34

Boiler and condenser tubes, Steel and Tubes, Inc. 309,248; Jan. 9; Serial No. 341,702; published Oct. 31, 1933.
Burners, Gas. B. Crisenberry. 309,252; Jan. 9; Serial No. 341,646; published Oct. 31, 1933.
Coils for furnaces, Water. Rudy Furnace Company. 309,350; Jan. 9; Serial No. 341,844; published Oct. 31, 1933.
Generators, acetylene-blowpipes, and cutting-torches, Gas-. Oxweld Acetylene Company. 95,653; renewed Mar. 3, 1934.

CLASS 35

Articles composed of vegetable substances, mineral substances, combinations thereof, and leather packing. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 94,436; renewed Dec. 9, 1933.
Lining, Brake. Marshall Asbestos Corporation. 309,422; Jan. 9.
Tires. C. R. Stevenson. 309,210; Jan. 9; Serial No. 340,849; published Oct. 24, 1933.
Tires. Western Auto Supply Company. 309,354; Jan. 9; Serial No. 329,164; published Oct. 24, 1933.

CLASS 36

Clarinet, saxophone, oboe, etc. D. A. Roalstad. 309,345; Jan. 9; Serial No. 341,306; published Oct. 24, 1933.
Wire and wire strings, Steel. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 93,705; renewed Oct. 14, 1933.

CLASS 37

Crayons. Eberhard Faber Pencil Company. 309,433; Jan. 9.

Fibre board. Hinde & Dauch Paper Company. 309,334; Jan. 9; Serial No. 341,186; published Oct. 24, 1933.
Newspaper cartoons, King Features, Inc. 309,290; Jan. 9; Serial No. 340,920; published Oct. 24, 1933.
Paper. R. A. Keane. 309,286; Jan. 9; Serial No. 340,951; published Oct. 31, 1933.
Paper and envelops. Bradner Smith & Company. 96,357; renewed Apr. 14, 1934.
Paper, Book. Kimberly-Clark Corporation. 309,338; Jan. 9; Serial No. 341,205; published Oct. 24, 1933.
Paper, paper towels, and paper napkins, Toilet-. Adirondack Tissue Paper Co. 95,696; renewed Mar. 3, 1934.
Paper, paper towels, and paper napkins, Toilet-. Hoberg Paper & Fibre Company. 309,357; Jan. 9; Serial No. 328,491; published Oct. 24, 1933.
Paper, Waxed. Marcalus Manufacturing Company. 309,329; Jan. 9; Serial No. 340,091; published Oct. 31, 1933.
Registers, Autographic. United Autographic Register Co. 309,321–2; Jan. 9; Serial Nos. 340,327–8; published Oct. 24, 1933.

CLASS 38

Book or directory. Carroll Gold Book Publishing Co. 309,230; Jan. 9; Serial No. 341,393; published Oct. 31, 1933.
Booklets, Recipe. Church & Dwight Co. Inc. 309,430; Jan. 9.
Books, Printed. Joseph T. Ryerson & Son. 95,265; renewed Feb. 3, 1934.
Cartoons. J. Dickie. 309,392; Jan. 9; Serial No. 329,467; published Oct. 31, 1933.
Column in newspapers, Serial. Chicago Daily News, Inc. 309,271; Jan. 9; Serial No. 340,640; published Oct. 31, 1933.
Comic strips in publications. NEA Service, Inc. 309,251; Jan. 9; Serial No. 341,638; published Oct. 24, 1933.
Folders, pamphlets, and mailing pieces, Printed advertising and descriptive. Correct Printing Co. Inc. 309,304; Jan. 9; Serial No. 341,064; published Oct. 24, 1933.
Journals and publications, Electrical. Institute of Radio Engineers. 309,406; Jan. 9; Serial No. 337,161; published Oct. 24, 1933.
Journals and publications, Electrical. Institute of Radio Engineers. 309,409; Jan. 9; Serial No. 337,160; published Oct. 24, 1933.
Magazines and also books relating to art subjects, drawings, etc. Studio Publications, Inc. 309,300; Jan. 9; Serial No. 341,033; published Oct. 24, 1933.
Newspaper section. King Features Syndicate, Inc. 309,216; Jan. 9; Serial No. 341,555; published Oct. 24, 1933.
Periodical. Tower Magazines, Inc. 309,258; Jan. 9; Serial No. 341,565; published Oct. 24, 1933.
Periodicals. Butterick Company. 309,297; Jan. 9; Serial No. 341,012; published Oct. 31, 1933.
Publication. Olldom Publishing Company. 309,262; Jan. 9; Serial No. 340,810; published Oct. 24, 1933.
Publications. Richard Burton Schools, Inc. 309,355; Jan. 9; Serial No. 329,212; published Oct. 24, 1933.

CLASS 39

Boots, shoes, and slippers. W. L. Douglas Shoe Company. 309,284; Jan. 9; Serial No. 340,963; published Oct. 24, 1933.
Braces (suspenders). Pioneer Suspender Company. 309,214; Jan. 9; Serial No. 341,559; published Oct. 24, 1933.
Clothing. Neiman-Marcus Company. 309,261; Jan. 9; Serial No. 340,808; published Oct. 24, 1933.
Corsets. Asbury Mills. 309,218; Jan. 9; Serial No. 341,539; published Oct. 24, 1933.
Garments, Combination. Model Brassiere Co. Inc. 309,213; Jan. 9; Serial No. 341,557; published Oct. 24, 1933.
Hats and caps. S. Schener. 309,351; Jan. 9; Serial No. 341,345; published Oct. 24, 1933.
Hats, caps, coats, suits, etc. Argus Knitting Mills, Inc. 309,375; Jan. 9; Serial No. 335,539; published Oct. 24, 1933.
Heels, Rubber. Essex Rubber Company. 309,340; Jan. 9; Serial No. 341,220; published Oct. 24, 1933.
Heels, Rubber. Essex Rubber Company. 309,372; Jan. 9; Serial No. 339,101; published Oct. 24, 1933.
Hose. Wayne Knitting Mills. 94,965; renewed Jan. 13, 1934.
Hosiery. Interwoven Stocking Company. 96,591; renewed Apr. 21, 1934.
Hosiery. Wayne Knitting Mills. 309,347–8; Jan. 9; Serial Nos. 341,315–16; published Oct. 24, 1933.
Shoes. Pedigo-Lake Shoe Co. 309,349; Jan. 9; Serial No. 341,338; published Oct. 24, 1933.
Shoes, Tennis. Lambertville Rubber Company. 309,308; Jan. 9; Serial No. 341,091; published Oct. 24, 1933.
Stockings. Mock, Judson, Voehringer Co. 309,242; Jan. 9; Serial No. 340,581; published Oct. 3, 1933.
Suits and overcoats. Leopold Morse Company. 97,263; renewed May 26, 1934.
Suits, coats, pants, etc. J. H. Daniel. 309,317; Jan. 9; Serial No. 340,436; published Oct. 24, 1933.
Underwear. Brown Durrell Co. 309,328; Jan. 9; Serial No. 340,214; published Oct. 24, 1933.
Underwear, Silk. John Wanamaker Philadelphia. 309,303; Jan. 9; Serial No. 341,063; published Oct. 24, 1933.

CLASS 40

Buttons, Snap-. Waldes & Co. 89,784; renewed Jan. 7, 1933.
Shields, Dress. Rand Rubber Company. 309,267–8; Jan. 9; Serial Nos. 340,723–4; published Oct. 24, 1933.

CLASS 42

Bagging, Jute burlap. Mente & Co. 309,386; Jan. 9; Serial No. 330,484; published Oct. 24, 1933.
Carpets and rugs. M. J. Whittall. 95,027; renewed Jan. 20, 1934.
Cotton, woolen, silk, and rayon piece goods. Argus Knitting Mills, Inc. 309,374; Jan. 9; Serial No. 335,538; published Oct. 24, 1933.
Fabric weaves, Lustre or brilliant. Chicopee Manufacturing Corporation. 309,394; Jan. 9; Serial No. 338,722; published Oct. 24, 1933.
Piece goods. G. Garnett & Sons, Limited. 95,826; renewed Mar. 17, 1934.
Silks. Krone-Jacobson Inc. 309,198; Jan. 9; Serial No. 339,566; published Oct. 24, 1933.

CLASS 43

Threads, Sewing. S. V. Roseman. 309,227; Jan. 9; Serial No. 341,407; published Oct. 24, 1933.
Yarns and threads. Callaway Mills. 309,336; Jan. 9; Serial No. 341,193; published Oct. 24, 1933.

CLASS 44

Eyelash curlers. J. L. Youngbusband. 309,249; Jan. 9; Serial No. 341,672; published Oct. 31, 1933.
Nipples, Nursing bottle. R. G. A. Beck. 309,320; Jan. 9; Serial No. 340,335; published Oct. 31, 1933.
Nipples, Nursing bottle. R. G. A. Beck. 309,411; Jan. 9; Serial No. 336,746; published Oct. 31, 1933.
Prophylactic rubber articles. Olympia Laboratory. 309,408; Jan. 9; Serial No. 336,914; published July 4, 1933.
Swabs. Q-Tips, Inc. 309,256; Jan. 9; Serial No. 341,566; published Oct. 31, 1933.

CLASS 45

Beverages, Maltless. S. M. Whitcraft. 309,318; Jan. 9; Serial No. 340,422; published Oct. 31, 1933.
Beverages, syrups, and concentrates, and bottled water, Maltless. Clicquot Club Co. 309,229; Jan. 9; Serial No. 341,422; published Oct. 31, 1933.
Drink, Soft. B. R. Faunce. 94,359; renewed Dec. 2, 1933.
Juice, Apple. R. M. Bailey. 309,421; Jan. 9.
Maltless beverages, syrups, and concentrates for making same, and bottled water. Clicquot Club Co. 309,223; Jan. 9; Serial No. 341,423; published Oct. 31, 1933.
Syrups, Maltless. La Verne Incorporated. 309,398; Jan. 9; Serial No. 338,572; published Oct. 31, 1933.

CLASS 46

Banana and plantain products and other products containing the same. Vitana Company. 309,383; Jan. 9; Serial No. 333,040; published Oct. 31, 1933.
Bread. P. F. Petersen Baking Company. 309,356; Jan. 9; Serial No. 328,909; published Oct. 24, 1933.
Bread. Stroehmann Brothers Company. 309,237; Jan. 9; Serial No. 340,587; published Oct. 24, 1933.
Cakes, wafers, and biscuits. Bremner Bros. 95,594; renewed Mar. 3, 1934.
Candy. Hollingsworth Candy Company. 96,417; renewed Apr. 21, 1934.
Canned fish. Calliguria Food Products Corporation. 309,410; Jan. 9; Serial No. 336,260; published Oct. 24, 1933.
Canned fruits. Sunical Packing Company. 309,371; Jan. 9; Serial No. 339,008; published Oct. 24, 1933.
Canned mushrooms. Keystone Mushroom Co. 309,319; Jan. 9; Serial No. 340,354; published Oct. 31, 1933.
Cantaloupes, Fresh. McDaniel & Sons. 309,243; Jan. 9; Serial No. 340,746; published Oct. 24, 1933.
Cantaloupes, vegetables, grapes, dried fruits, Fresh. P. Federici. 309,417; Jan. 9.
Cheese. Camembert Industrie Heising, Hirschle & Immler. 309,358; Jan. 9; Serial No. 320,617; published Oct. 31, 1933.
Chocolate. J. S. Fry & Sons, Limited. 95,420; renewed Feb. 17, 1934.
Coffee beans, Green. M. L. Pumarejo. 309,270; Jan. 9; Serial No. 340,694; published Oct. 31, 1933.
Coffee, coffee substitutes, and tea. Mod-Urn Coffee Service, Inc. 309,391; Jan. 9; Serial No. 329,958; published Oct. 31, 1933.
Doughnuts and doughnut flour. E. A. Hubbs. 309,368; Jan. 9; Serial No. 339,231; published Oct. 24, 1933.
Eggs, frozen egg whites, and egg yolkes, Frozen. Standard Brands Incorporated. 309,301; Jan. 9; Serial No. 341,034; published Oct. 24, 1933.
Flour, Biscuit. General Mills, Inc. 309,423; Jan. 9.
Flour, pepper, mustard, etc., Wheat. S. Hamill Company. 97,139; renewed May 19, 1934.
Foods. Strohmeyer & Arpe Company. 96,207; renewed Apr. 7, 1934.
Foods, Pet. Justrite Company. 309,203; Jan. 9; Serial No. 339,461; published Aug. 22, 1933.
Fruits, Citrus. J. K. Tweedy. 97,291; renewed May 26, 1934.
Fruits, Fresh citrus. Whittier Select Citrus Association. 309,382; Jan. 9; Serial No. 332,797; published Oct. 24, 1933.
Grain products and preparations thereof, Milled. General Mills, Inc. 309,413; Jan. 9; Serial No. 336,247; published June 13, 1933.
Gum, Chewing. M. C. Shapiro. 309,367; Jan. 9; Serial No. 339,207; published Sept. 5, 1933.
Hominy flakes. J. W. McFerran. 309,393; Jan. 9; Serial No. 338,935; published Oct. 24, 1933.
Ice cream, milk, sweet cream, etc. Schlosser Brothers. 309,370; Jan. 9; Serial No. 339,205; published Oct. 24, 1933.
Mayonnaise. E. J. Guilbert. 309,384; Jan. 9; Serial No. 331,989; published Jan. 31, 1933.
Nuts and salted nuts. E. F. Kemp. 97,059; renewed May 19, 1934.
Olive oil. A. Makris Bros. 309,326; Jan. 9; Serial No. 340,261; published Oct. 31, 1933.
Oranges and lemons. Frances Citrus Association. 309,434; Jan. 9.
Packing house products. Houston Packing Company. 309,381; Jan. 9; Serial No. 333,593; published Oct. 24, 1933.

CLASS 47

Wine, Port. Feuerbeerd Brothers & Company. 309,208; Jan. 9; Serial No. 340,871; published Oct. 31, 1933.
Wines. A. Contratto. 309,380; Jan. 9; Serial No. 333,577; published Oct. 31, 1933.
Wines. Charles A. Labin Limited. 309,274; Jan. 9; Serial No. 341,730; published Oct. 24, 1933.
Wines. Charles A. Labin Limited. 309,278–9; Jan. 9; Serial Nos. 341,728–9; published Oct. 31, 1933.
Wines. D. W. Putnam. 309,195; Jan. 9; Serial No. 339,878; published Oct. 31, 1933.

CLASS 48

Beer. Kingsbury Breweries Company. 309,307; Jan. 9; Serial No. 341,090; published Oct. 31, 1933.
Beer. Neustadtl Brewing Corp. 309,250; Jan. 9; Serial No. 341,691; published Oct. 31, 1933.
Beer. Wausau Brewing Company. 309,309; Jan. 9; Serial No. 341,107; published Oct. 31, 1933.
Malt beverages. Kurth Company. 309,255; Jan. 9; Serial No. 341,577; published Oct. 31, 1933.
Malt beverages. Pschorrbräu Aktiengesellschaft München. 309,366; Jan. 9; Serial No. 339,326; published Oct. 31, 1933.

CLASS 49

Whisky. C. W. Spears. 309,257; Jan. 9; Serial No. 340,820; published Sept. 26, 1933.
Whisky. Old Gilmore Distillery, Inc. 309,426; Jan. 9.
Whisky. Old Gilmore Distillery, Inc. 309,429; Jan. 9.
Whisky. C. W. Spears. 309,260; Jan. 9; Serial No. 340,818; published Oct. 3, 1933.
Whisky. United Distillers Limited. 309,424; Jan. 9.
Whisky. United Distillers Limited. 309,427; Jan. 9.
Whisky and other potable distilled spirits. Jos. S. Finch & Company. 309,428; Jan. 9.
Whisky and other potable distilled spirits. Jos. S. Finch & Company. 309,431; Jan. 9.
Whisky, brandy, gin, etc. Jos. S. Finch & Company. 309,436–7; Jan. 9.

CLASS 50

Waterproofed rayon flock fabric. Zapon Company. 309,245–6; Jan. 9; Serial Nos. 341,706–7; published Oct. 31, 1933.

LIST OF LABELS

Baltimore Brew Special. For Beer of the Legal Alcoholic Content. Baltimore Brewing Co. 43,091; Jan. 9.
Burgess B and C Radio Battery. For Electric Batteries. Burgess Battery Company. 43,094; Jan. 9.
Cellophane Icicles. For Shredded Cellophane Christmas Tree Decorations. Brooks Paper Company. 43,093; Jan. 9.
Goodman's. For Flavored Matzo Crackers. A. Goodman & Sons, Inc. 43,096; Jan. 9.
Hold-Outs. For Cigars. A. J. Golden. 43,095; Jan. 9.
Kramer's Juvenile Boot Shops Inc. For Shoes. Frank C. Mayer Co. Inc. 43,101; Jan. 9.
Lynwood. For Shoes. Bird & Son. Inc. 43,092; Jan. 9.
Monite Casein Cold Glue. For Glue. Monite Waterproof Glue Co. 43,102; Jan. 9.
Muri Brand. For Imported Grated Cheese. New England Importation Company. 43,104; Jan. 9.
My-T-Fine Filling. For Mixture of Ingredients to be Used in Making Pumpkin Pie. My-T-Fine Corporation. 43,103; Jan. 9.

Placidan. For Acid Dyspepsia. Tested Products Laboratories Inc. 43,105; Jan. 9.
Stenselet. For Device for Printing by Hand Through a Stencil. I. Innes. 43,097; Jan. 9.
Stern Brothers. For Shoes. Frank C. Meyer Co. Inc. 43,098; Jan. 9.
The Blum Store. For Shoes. Frank C. Meyer Co. Inc. 43,100; Jan. 9.
Tip Top Hulless Pop Corn. For Pop Corn. American Pop Corn Company. 43,090; Jan. 9.
Vassar Girl. For Shoes. Frank C. Meyer Co. Inc. 43,099; Jan. 9.

LIST OF PRINTS

Both Miles and Money Ahead. For Gasoline. Covey Gas & Oil Company. 14,497; Jan. 9.
Cocktail Style Frankfurts. For Frankfurters. Stahl-Meyer, Inc. 14,501; Jan. 9.
Cocktail Style Sausages. For Sausages. Stahl-Meyer, Inc. 14,502; Jan. 9.
Display Card for Iso-Vis D Anti-Sludge Motor Oil. For Motor Oil. Rosenow Company. 14,498; Jan. 9.
Dr. Scholl's. For Foot Appliances and Remedies. Scholl Mfg. Co. 14,499; Jan. 9.
Dr. Scholl's Zeno-Pads. For Corn Pads. Scholl Mfg. Co. 14,500; Jan. 9.
Poinsettia. For Quilting Cotton. Stearns & Foster Co. 14,503; Jan. 9.
Tulip Bowl. For Quilting Cotton. Stearns & Foster Co. 14,505; Jan. 9.
Virginia Reel. For Quilting Cotton. Stearns & Foster Co. 14,504; Jan. 9.
Ward's Soft Bun Bread. For Bread. Ward Baking Company. 14,506; Jan. 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Bacon, Elbridge F., assignor.)
A C Spark Plug Company. (See Hampton, Leon N., assignor.)
A C Spark Plug Company. (See Helgeby, Ralph O., assignor.)
A C Spark Plug Company. (See Kamrath, Herbert G., assignor.)
A C Spark Plug Company. (See Rabezzana, Hector, assignor.)
A C Spark Plug Company. (See Rabezzana, H., and Duffendack, assignors.)
Abrahamsen, Alfred W., assignor to Hook Scraper Company, Incorporated, Queens Village, N. Y. Scraper. 1,943,252; Jan. 9.
Abramson, Abraham, New York, N. Y. Electric bulb or similar article. Des. 91,809; Jan. 9.
Ackermann, Karl, Mannheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Electrode for secondary cells. 1,942,791; Jan. 9.
Acme Chair Company. (See Clarin, Werner E., assignor.)
Acme Knitting Machine & Needle Company. (See Stewart Albert E., assignor.)
Acme Motion Picture Projector Company. (See Larsen, Louis B., assignor.)
Actiengesellschaft C. P. Goerz Optische Anstalt Actiova Spolecnost K. P. Goerz Opticky Ustav. (See Clementi, Antonio, assignor.)
Actiengesellschaft C. P. Goerz Optische Anstalt Actiova Spolecnost K. P. Goerz Opticky Ustav. (See Petschenig, Karl, assignor.)
Adams, Elmer W., and G. M. McNulty, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Insecticide and insectifuge. 1,942,892; Jan. 9.
Adams, James L., jr., Youngstown, Ohio, assignor to The Youngstown Sheet & Tube Company. Tube forming machine. 1,942,466; Jan. 9.
Advance Machine Co. (See Steinmetz, Herman, assignor.)
Agfa Ansco Corporation. (See Eggert, J., and Heymer, assignors.)
Air Reduction Company. (See Metzger, Floyd J., assignor.)
Aktiebolaget Spontan. (See Ljungström, Fredrik, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Widmer, Stefan, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Widmer, S., and Caudenzi, assignors.)
Alemite Corporation. (See Zerk, Oscar U., assignor.)
Allardice, Thomas B., Mountain Lakes, and T. G. Coghlan, Elizabeth, N. J. Automatic boiler water deconcentration system. 1,942,467; Jan. 9.
Allen, Charles E. (See Taylor, E. R., and Allen.)
Al-Metal Universal Joint Company, The. (See Peters, Frederick W., assignor.)
Alton, William H., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Toilet soap powder. 1,943,253; Jan. 9.
Aluminum Plant & Vessel Company Limited, The. (See Kern, F. B., and French, assignors.)
American Bemberg Corporation. (See zur Löwen, Waldemar, assignor.)
American Coffee Corporation. (See Dent, Edward J., assignor.)
American District Telegraph Company. (See Hopkins, Richard M., assignor.)
American Forging and Socket Company. (See Saunders, Walter S., assignor.)
American Fork & Hoe Company, The. (See Withington, Winthrop, assignor.)
American Glanzstoff Corporation. (See Herrmann, Conrad, assignor.)
American Lurgi Corporation. (See Kreisler, Otto, assignor.)
American Optical Company. (See Baker, Nelson M., assignor.)
American Optical Company. (See Glancy, Anna E., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Steel Foundries. (See Blakeslee, Jerome K., assignor.)
American Steel Foundries. (See Kinne, E. P., and Kalyer, assignors.)
American Steel and Wire Company of New Jersey, The. (See Neely, Roy M., assignor.)
American Tar Products Company, The. (See Rhodes, Edmund O., assignor.)
American Tar Products Co. (See Rhodes, E. O., Volkmann, and Fitzpatrick, assignors.)
American Telephone and Telegraph Company. (See Bjornson, B. G., and Mitchell, assignors.)
American Telephone and Telegraph Company. (See Gordon, W. A., and O'Neil, assignors.)
American Telephone and Telegraph Company. (See Green, Irving W., assignor.)
American Throttle Company. (See Kimberley, Rupert E., assignor.)
Anchor Cap & Closure Corporation. (See Gibbs, John C., assignor.)
Anderson, Otto, Portland, Oreg. Switch for electric safety signals. 1,942,739; Jan. 9.
Andrews, Paul B., Rome, N. Y., assignor to Revere, Copper & Brass Incorporated. Flexible insulated pipe. 1,942,468; Jan. 9.
Angier, Edward H., trustee. (See Morse, Melvin L., assignor.)
Anthony, Benjamin F. (See Eurich, R. H., and Anthony.)
Anthony Company, The. (See Anthony, W. C., and Wachter, assignors.)
Anthony, William C., and L. Wachter, assignors to The Anthony Company, Streator, Ill. Hydraulic dumping body. 1,942,402; Jan. 9.
Appel, Joseph H., jr., Scarsdale, N. Y. Radioreceiver. 1,942,792; Jan. 9.
Applegate, Lindsay M., Seattle, Wash. Electromechanical system. 1,942,740; Jan. 9.
Armstrong, Francis W. (See Hubbard, C. R., and Armstrong.)
Arni, Hans, Falkensee, near Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Feeding device for a special lathe. 1,942,403; Jan. 9.
Ashbrook, Roy B., San Gabriel, and A. M. Burnett, Alhambra, Calif., assignors to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,942,404; Jan. 9.
Ashby, John T. (See Welch, S. A., Guyler, Ashby, and Boaler.)
Ashtabula Corrugated Box Company, The. (See Sherman, Elroy P., assignor.)
Ashworth Advertising Company. (See Ashworth, John W., assignor.)
Ashworth, John W., assignor to Ashworth Advertising Company, Incorporated, New York, N. Y. Safety razor. 1,942,911; Jan. 9.
Asplund, August, San Francisco, Calif. Sugar dispenser. 1,943,199; Jan. 9.
Associated Electric Laboratories, Inc. (See Ashbrook, R. B., and Burnett, assignors.)
Associated Electric Laboratories, Inc. (See Hershey, Harry E., assignor.)
Associated Telephone and Telegraph Company. (See Kessler, F., Deyes, and Scowcroft, assignors.)
Associated Telephone and Telegraph Company. (See Steblik, Rudolph F., assignor.)
Athletic Shoe Company. (See Shapiro, Isadore, assignor.)
Atlantic Refining Company, The. (See Peterkin, Albert G., jr., assignor.)
Aultman, Paul M., and A. C. Bowers, Greensburg, Pa., assignors to Pennsylvania Rubber Company. Producing athletic balls. 1,942,993; Jan. 9.
Austin, Louis L., Philadelphia, Pa. Water cooler. 1,942,741; Jan. 9.
Austin, Louis L., Philadelphia, Pa. Water cooler. 1,942,742; Jan. 9.
Austin, Walter M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,942,678; Jan. 9.
Automatic Electric Company. (See Wicks, John, assignor.)
Automatic Sprinkler Company of America. (See Lowe, E. A., and Hamilton, assignors.)
Automatic Water Softener Company. (See Dotterweich, Andrew J., assignor.)
Aviation Patent and Research Corporation. (See Beard, Myron G., assignor.)
Babcock & Wilcox Company, The. (See Trainer, James E., assignor.)
Bacon, Elbridge F., assignor to A C Spark Plug Company, Flint, Mich. Electrical indicating device. 1,942,529; Jan. 9.
Bader, Walter, and E. B. Thomas, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of oxygenated organic compounds. 1,942,530; Jan. 9.
Badgett, Fred L., assignor to Badgett Steam Lubricator Company, Chickasha, Okla. Water regulator. 1,942,635; Jan. 9.
Badgett Steam Lubricator Company. (See Badgett, Fred L., assignor.)

Bagley, William H., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Protector for timing connecting rods and the like. 1,943,155; Jan. 9.
Bailey, William H., Pueblo, assignor to The Colorado Fuel and Iron Company, Denver, Colo. Apparatus to control the flow of fluids through conduits. 1,942,793; Jan. 9.
Bakelite Building Products Co. (See Harshberger, N. P., assignor.)
Bakelite Corporation. (See Nash, Clarence A., assignor.)
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Aviator's goggles. 1,942,393; Jan. 9.
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,942,394; Jan. 9.
Baker Perkins Company. (See Pointon, J. E., and Beanes, assignors.)
Ball Brothers Company. (See Ludington, William C., assignor.)
Bancroft, Erwin P., Brooklyn, N. Y., assignor to International Communication Laboratories, Inc., Newark, N. J. Telegraph regenerative repeater. 1,942,588; Jan. 9.
Barber, George E., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Chromium plating. 1,942,469; Jan. 9.
Barbulesco, Constantin D. (See Edwards, P. S., and Barbulesco.)
Barnes Drill Co. (See Johnson, A. M., and Holland, assignors.)
Barrel Fitting and Seal Corporation of America. (See Schwartz, Henry, assignor.)
Barrett, Company, The. (See Menshon, William R., assignor.)
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrett, Harold J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Low viscosity vinyl polymer. 1,942,531; Jan. 9.
Barron, William L., Laurence Harbor, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Darning foot for sewing machines. 1,943,254; Jan. 9.
Barsch, William, Paris, France, assignor to the firm Industrie A. G. Allegro Emmenbrucke, Luzern, Switzerland. Device for sharpening the blades of safety razors. 1,943,156; Jan. 9.
Barton, Clarence H., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Transmission. 1,942,633; Jan. 9.
Bash, Thomas B., Kansas City, Mo. Fuse switch. 1,942,634; Jan. 9.
Basquin, Olin H., Evanston, C. Harazin, and G. T. Gerlach, assignors to George R. Meyercord, Chicago, Ill. Cotton picking means. 1,942,405; Jan. 9.
Bassett, Preston R., Rockville Center, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyro vertical for aircraft. 1,942,470; Jan. 9.
Battelle Memorial Institute, The. (See Brion, Clarence E., assignor.)
Baxenden, Thomas G., Watford, and J. R. Collyear, Bushey, England. Spool for photographic films. 1,942,951; Jan. 9.
Baxenden, Thomas G., Watford, and J. R. Collyear, Bushey, England. Construction of spools. 1,942,952; Jan. 9.
Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
Beanes, Warwick H. (See Pointon, J. E., and Beanes.)
Beard, Myron G., Farmingdale, assignor to The Aviation Patent and Research Corporation, New York, N. Y. Heating and ventilating system. 1,943,233; Jan. 9.
Beath, Lancelot B., Toronto, Ontario, Canada. Hoisting mechanism for dump trucks. 1,943,050; Jan. 9.
Beatty, Ross J. (See Mosfelt, H. T., and Schagerholm, assignors.)
Bebel, Abraham, New York, and B. Pruzan, Brooklyn, N. Y. Safety removable hook fastener slide. 1,942,912; Jan. 9.
Bech, Joseph, assignor to Industrial Patents Corporation, Chicago, Ill. Can cutting device. 1,942,994; Jan. 9.
Beck, William G., New York, N. Y. Winding means for spring motors. 1,942,505; Jan. 9.
Becker, Abraham S., Los Angeles, Calif. Brassière. 1,942,679; Jan. 9.
Bee Line Manufacturing Company. (See Smith, Roy D., assignor.)
Beggs, Paul W., assignor, by mesne assignments, to Jas. P. Marsh Corporation, Chicago, Ill. Differential governor. 1,942,913; Jan. 9.
Bell Telephone Laboratories, Incorporated. (See Bjornson, B. G., assignor, and Mitchell.)
Bell Telephone Laboratories, Incorporated. (See Buchanan, Russell B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ellis, William C., assignor.)
Bell Telephone Laboratories Incorporated. (See MacPherson, Hugh D., assignor.)
Bell Telephone Laboratories, Incorporated. (See Marrison, Warren A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Oakes, William C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Och, Henry G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Power, James R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Stilwell, George R., assignor.)
Bennett, Harry T., and Le Roy G. Story, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Lubricating oil. 1,942,636; Jan. 9.
Bennett, John L., assignor to U. S. Manufacturing Corporation, Decatur, Ill. Container. 1,942,953; Jan. 9.
Bennett, Verna L., Jackson Heights, assignor to L. & E. Stirn, Inc., New York, N. Y. Textile fabric or similar article. Des. 91,310; Jan. 9.
Bennett, Winton R. (See Weiss, C. R., and Bennett.)
Benson, George J., Cleveland, Ohio. Tunnel excavating machine. 1,943,103; Jan. 9.
Benson, Melvin B., assignor, by mesne assignments, to Melvin B. Benson Corporation, New York, N. Y. Speed reducer. 1,942,794; Jan. 9.
Benson, Melvin B., assignor, by mesne assignments, to Melvin B. Benson Corporation, New York, N. Y. Power transmission and speed reduction system. 1,942,795; Jan. 9.
Benson, Melvin B., assignor, by mesne assignments, to M. B. Benson Corporation, New York, N. Y. Reduction gear drive. 1,942,796; Jan. 9.
Benson, Melvin B., Corporation. (See Benson, Melvin B., assignor.)
Berger, Edwin, assignor to firm Jenaer Glaswerk Schott & Gen., Jena, Germany. Optical glass. 1,943,051; Jan. 9.
Berry, Richard G., jr., Columbus, Ohio. Cigarette container or the like. 1,943,052; Jan. 9.
Berstad, Martin C., San Diego, Calif. Water sprinkler. 1,942,395; Jan. 9.
Best, Clarence L., assignor to Caterpillar Tractor Co., San Leandro, Calif. Tractor control. 1,942,637; Jan. 9.
Biggs, George A., assignor to The James Leffel & Company, Springfield, Ohio. Hydraulic turbine. 1,942,589; Jan. 9.
Biggs, George A., assignor to The James Leffel & Company, Springfield, Ohio. Hydraulic turbine. 1,942,995; Jan. 9.
Bilhuber, E., Incorporated. (See Scheuing, G., and Walach, assignors.)
Binger, Delmar M., St. Paul, Minn. Elevator cleaning device. 1,942,590; Jan. 9.
Binnie, David. (See Wheeler, T. S., and Binnie.)
Bischoff, Heinrich. (See Walther, W., and Bischoff.)
Bisset, Libbie, Newark, N. J. Bracket. 1,943,200; Jan. 9.
Bittaker, Charles E., assignor to The General Tire & Rubber Company, Akron, Ohio. Preparing tire casings for vulcanization. 1,942,797; Jan. 9.
Bittman, Harry U., Newark, N. J. Line gauge for typewriters. 1,942,406; Jan. 9.
Bittman, Jesse C. (See McIlvried, E. J., and Bittman.)
Bixby, Walter, Boston, Mass. Yarn spool. 1,942,680; Jan. 9.
Bjornson, Bjorn G., Brooklyn, N. Y., and D. Mitchell, Martinsville, N. J.; said Mitchell assignor to American Telephone and Telegraph Company, and said Bjornson assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission control in signaling systems. 1,943,104; Jan. 9.
Black, William C., assignor of one-half to Chauncey G. Wilson, Denver, Colo. Embalming preparation. 1,942,407; Jan. 9.
Black Rock Manufacturing Company, The. (See St. John, Stuart B., assignor.)
Blackwood, John. (See Lawless, C. N., and Blackwood.)
Blakeslee, Jerome K., assignor to American Steel Foundries, Chicago, Ill. Brake head. 1,942,743; Jan. 9.
Boaler, William H. (See Welch, S. A., Guyler, Ashby, and Boaler.)
Boeing Airplane Company. (See Monteith, C. N., and Minshall, assignors.)
Bogemann, Max. (See Zaucker, E., Orthner, and Bogemann, assignors.)
Bohli, Jakob, assignor to Scintilla Aktiengesellschaft, Solothurn, Switzerland. Magneto. 1,943,157; Jan. 9.
Bohn Aluminum & Brass Corporation. (See Bagley, William H., assignor.)
Bollard, Adelard, Indian Orchard, Mass. Stand for fuel drums or the like. Des. 91,311; Jan. 9.
Boisset, Charles L., New Orleans, La. Internal-combustion apparatus. 1,943,053; Jan. 9.
Bolton, Harry D., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 1,942,506; Jan. 9.
Bömcke, Reinold. (See Wigger, C., and Bömcke.)
Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Radio container. 1,943,255; Jan. 9.
Booth, Percy, Warrington, England. Screen. 1,942,948; Jan. 9.
Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Wheel hub. 1,943,158; Jan. 9.
Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Hub cap and securing same to wheel hubs. 1,943,159; Jan. 9.
Borba, Joseph R., Lathrop, Calif. Trap door construction. 1,942,681; Jan. 9.
Borchers, Alwin, assignor to The Brown-Brockmeyer Company, Dayton, Ohio. Short circuiter for repulsion induction motors. 1,942,996; Jan. 9.
Borchers, Alwin, assignor to The Brown-Brockmeyer Company, Dayton, Ohio. Short circuiter for electric motors. 1,942,997; Jan. 9.
Bosch, Robert, Aktiengesellschaft. (See Walther, W., and Bischoff, assignors.)
Bosworth, William H., Yonkers, assignor to George Haiss Manufacturing Co. Inc., New York, N. Y. Loading machine. 1,942,798; Jan. 9.

Bower, Joshua. (See Dreyfus, H., Kinsella, Bower, and Taylor.)
Bowers, Archibald C. (See Aultman, P. M., and Bowers.)
Bowser, S. F., & Company. (See Rennick, Edwin W. H., assignor.)
Boynton, Arthur J., assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Operating open-hearth furnaces. 1,942,682; Jan. 9.
Bradbury, William T., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Oil-burning heater. Des. 91,312; Jan. 9.
Bradbury, William T., Kankakee, Ill, ass'gnor to Florence Stove Company, Gardner, Mass. Combined oil-burning heater and cook stove. Des. 91,313; Jan. 9.
Brandt, Alfred L. (See Wiley, R. R., and Brandt.)
Braren, Cornelius. (See Kimball, W. D., and Braren.)
Breckon, William A. (See Wadsworth, D. W., and Breckon.)
Breese Brothers Company, The. (See Breese, Clayton D., assignor.)
Breese, Clayton D., Wyoming, assignor to The Breese Brothers Company, Cincinnati, Ohio. Vacuum condensation system. 1,943,105; Jan. 9.
Breth, Walter J. (See Engler, M. L., and Breth.)
Brewer, Pearl H., and H. R. Kraybill, assignors to Purdue Research Foundation, West Lafayette, Ind. Negatively charged aluminum gel. 1,942,799; Jan. 9.
Brewer-Titchener Corporation, The. (See Johannsen, Udo K., assignor.)
British Cotton & Wool Dyers' Association Limited, The. (See Gough, Harold, assignor.)
Brittain, Richard J., jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Journal box. 1,943,054; Jan. 9.
Brittain, Richard J., jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Journal box and car frame support. 1,943,055; Jan. 9.
Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Sodium para-phenylphenate and making same. 1,942,800; Jan. 9.
Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Antiseptic and germicide. 1,942,801; Jan. 9.
Broff, Morris, Brooklyn, N. Y. Lock. 1,942,533; Jan. 9.
Brooker, Leslie G. S., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 1,942,854; Jan. 9.
Brooks, Chester K., Kirtland Hills, and E. H. Schmidt, Cleveland Heights, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Method of and apparatus for effecting tight couplings. 1,942,949; Jan. 9.
Brown-Brockmeyer Company, The. (See Borchers, Alwin, assignor.)
Brown, Clarence L., assignor to Sawyer Manufacturing Company, Hudson, Mich. Floral rack. 1,942,940; Jan. 9.
Brown, H. Brainard, assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. Des. 91,314; Jan. 9.
Brown, Ned C. L., Scottsville, assignor to General Railway Signal Company, Rochester, N. Y. Car retarder for railroads. 1,942,802; Jan. 9.
Brown, Walter O., Detroit, Mich. Folding table. Des. 91,315; Jan. 9.
Browne, Montague P., Buffalo, N. Y. Mounting for sliding vehicle seats. 1,942,998; Jan. 9.
Brubaker, Jacob E., assignor to The Hubley Manufacturing Company, Lancaster, Pa. Illuminated wheeled toy. 1,943,160; Jan. 9.
Brueshaber, Martin W., assignor to Goss Printing Press Company, Chicago, Ill. Stereotype printing plate. 1,942,408; Jan. 9.
Buchanan, Russell B., Lynbrook, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Operator's position equipment. 1,942,471; Jan. 9.
Buck, Everett A., and L. W. Morey, Millinocket, Maine. Therapeutic apparatus. 1,942,914; Jan. 9.
Budd, Edward G., assignor to Budd Wheel Company, Philadelphia, Pa. Making brake drums. 1,943,056; Jan. 9.
Budd Wheel Company. (See Budd, Edward G., assignor.)
Budd Wheel Company. (See Rosenberg, Ralph H., assignor.)
Bueker, Frederick W., Brookville, Kans. Cutter for corn harvesters. 1,943,201; Jan. 9.
Buffalo Forge Company. (See Yates, Arthur T., assignor.)
Burghardt Ferdinand, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Centrifugal brake for an airplane antenna winch. 1,942,534; Jan. 9.
Burket, Wilfrid F., Tarentum, Pa. Hobbyhorse. 1,942,396; Jan. 9.
Burman, Olof S., Minneapolis, Minn. Boiler for hot water heating systems. 1,942,915; Jan. 9.
Burnett, Alva M. (See Ashbrook, R. B., and Burnett.)
Burnham, Clifford L., Chicago, Ill. Evaporator. 1,943,106; Jan. 9.
Burns, Cloyd E., Buffalo, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,942,999; Jan. 9.
Bush, Eugene S., assignor to Bush Manufacturing Company, St. Louis, Mo. Engine and transmission control means. 1,943,057; Jan. 9.
Bush Manufacturing Company. (See Bush, Eugene S., assignor.)
Cairns, Claude F., deceased, Belmont, Mass.; M. L. Cairns, administratrix. Voltage regulation system. 1,942,535; Jan. 9.
Cairns, Mae L., administratrix. (See Cairns, Claude F.)
Calco Chemical Company, The. (See Jacobson, Bernard H., assignor.)
Cambridge Instrument Company, The. (See Packard, Horace N., assignor.)
Campbell, Curtis Q. M., Shamokin, Pa. Preparation of sols for clarifying liquids. 1,942,507; Jan. 9.
Candee, Zenas P., Watertown, assignor to The Waterbury Farrel Foundry & Machine Company, Waterbury, Conn. Vertical automatic shell trimming machine. 1,943,107; Jan. 9.
Capstan Glass Company. (See Piazzoli, Louis P., jr., assignor.)
Cardwell Westinghouse Co., et al. (See Sproul, Donald F., assignor.)
Carpenter, Arthur W., assignor to United Research Corporation, New York, N. Y. Light-sensitive cell. 1,942,958; Jan. 9.
Carter, William D., Caldwell, N. J. Liquid and gas spray pump. 1,943,234; Jan. 9.
Carver, Albert W., and F. M. Hazleton, Muscatine, Iowa. Appointment reminder clock. 1,942,409; Jan. 9.
Carver, Thomas A., Chendle Hulme, England. Mechanism for electrically controlling mechanical motion. 1,943,161; Jan. 9.
Caterpillar Tractor Co. (See Best, Clarence L., assignor.)
Celanese Corporation of America. (See Bader, W., and Thomas, assignors.)
Celanese Corporation of America. (See Dreyfus, J., Kinsella, Bower, and Taylor, assignors.)
Celanese Corporation of America. (See Ellis G. H., and Mann, assignors.)
Celanese Corporation of America. (See Welch, S. A., Guyler, Ashby, and Boaler, assignors.)
Celotex Company, The. (See Munroe, T. B., and Lathrop, assignors.)
Chambers, Bert C., New York, N. Y., assignor to Wallace & Tieman Products, Inc., Belleville, N. J. Printing block and making same. 1,942,683; Jan. 9.
Champion Spark Plug Company. (See Riddle, Frank H., assignor.)
Chance, Albert B., Centralia, Mo. Earth anchor. 1,942,684; Jan. 9.
Chandler, Carroll F., Buffalo, assignor, by mesne assignments, to Du Jont Rayon Company, New York, N. Y. Sizing artificial fibers. 1,943,000; Jan. 9.
Charles, Eugene J., New Haven, Conn. Shaving brush. 1,943,202; Jan. 9.
Charles, Garfield, Chicago, Ill. Collar button. 1,942,744; Jan. 9.
Charles, Ulysses G., Wichita, Kans. Pocket. 1,942,410; Jan. 9.
Chemical Works formerly Sandoz. (See Kartaschoff, V., and Knecht, assignors.)
Chicago Bridge & Iron Company. (See Williams, Djalma D., assignor.)
Chicago Electric Manufacturing Company. (See Gough, James J., assignor.)
Chicago Pneumatic Tool Company. (See Meunier, Leon F., assignor.)
Chicago Pneumatic Tool Company. (See Reed, Melvin C., assignor.)
Chicago Pneumatic Tool Company. (See Terrill, Franklin E., assignor.)
Chicago Printed String Co. (See Weiner, Charles, assignor.)
Christ, Wilhelm. (See Laska, L., Zitscher, Christ, and Petzold.)
Christensen, Andreas, Whitelander, Wis., assignor to Fibre Making Processes, Inc., Chicago, Ill. Sulphite pulp digester system. 1,942,685; Jan. 9.
Christian, Frank T., assignor to Eclipse Machine Company, Elmira, N. Y. Automatic starting mechanism. 1,942,591; Jan. 9.
Chudner, Joseph, Brooklyn, N. Y. Presser foot for plain stitching and shirring. 1,942,203; Jan. 9.
Chute, Thomas J., Los Angeles, Calif. Cigarette package. 1,943,204; Jan. 9.
Cincinnati Ball Crank Company, The. (See Munday, Richard B., assignor.)
Cincinnati Time Recorder Company, The. (See Streckfuss, Elmer G., assignor.)
Clarin, Warner E., Chicago, Ill., assignor to Acme Chair Company, Reading, Pa. Folding chair. 1,943,058; Jan. 9.
Clark, Malcolm S., Warren, Ohio. Spot welding machine. Des. 91,316; Jan. 9.
Clark, Mary I., Newark, N. J. Projecting graduations and characters of measuring devices. 1,942,508; Jan. 9.
Claybourn, Leslie W., Milwaukee, Wis. Machine for reducing printing plates to uniform thickness. 1,942,592; Jan. 9.
Claybourn, Leslie W., Milwaukee, Wis. Reducing curved printing plates to uniform thickness. 1,942,593; Jan. 9.
Clayton, Martin M., Baden, Pa., assignor to National Electric Products Corporation. Electrical outlet. 1,943,001; Jan. 9.
Clayton, William F., Huntsville, assignor of one-third to W. E. James, Cullman, and one-third to N. E. James, Birmingham, Ala. Automatic fork for looms. 1,943,002; Jan. 9.

Cleland, William B., Hamilton, assignor to Jorden Wine Company, Ltd., Jorden, Ontario, Canada. Jug. Des. 91,317; Jan. 9.
Cleland, William B., Hamilton, assignor to Jorden Wine Company, Ltd., Jorden, Ontario, Canada. Bottle. Des. 91,318; Jan. 9.
Clementi, Antonio, Vienna, Austria, assignor to Actiengesellschaft C. P. Goerz Optische Anstalt Actiova Spolecnost K. P. Goerz Opticky Unstav, Presseburg, Bratislava, Czechoslovakia. Apparatus for determining the speed and direction of movement of aircrafts and of moving targets. 1,942,536; Jan. 9.
Cleveland Graphite Bronze Company, The. (See Stockfleth, Berger, assignor.)
Cleveland Heater Company. (See Te Pas, Edmund J., assignor.)
Cleveland Patents, Incorporated. (See Hickok, Robert D., assignor.)
Cleveland Rock Drill Company, The. (See Feucht, Albert, assignor.)
Cleveland Rock Drill Company, The. (See Renfer, John E., assignor.)
Coatalen, Louis, Wolverhampton, England. Fuel pump. 1,943,162; Jan. 9.
Coats, George S., Visalia, Calif. Universal driving connection. 1,942,745; Jan. 9.
Cochin, John D., San Francisco, Calif. Chock for vehicle elevators. 1,943,003; Jan. 9.
Coghlan, Thomas G. (See Allardice, T. B., and Coglan.)
Colbert, George F., Pittsburgh, and W. H. Colbert, Brackenridge, Pa., assignors to Liberty Mirror Works. Mirror and making it. 1,942,686; Jan. 9.
Colby, Haldwell S., Wellsville, N. Y. Motor-vehicle-heating system. 1,943,108; Jan. 9.
Coleman, Harold F., East Milton, assignor to United Drug Company, Boston, Mass. Shipping and display container. 1,942,537; Jan. 9.
Collison, Thomas A., assignor to Mt. Vernon Car Manufacturing Co., Mount Vernon, Ill. Coal-loading machine. 1,943,235; Jan. 9.
Collyear, John R. (See Baxenden, T. G., and Collyear.)
Colorado Fuel and Iron Company, The. (See Bailey, William H., assignor.)
Colt's Patent Fire Arms Manufacturing Co. (See Schmalz, William F., assignor.)
Columbia Axle Company, The. (See Wood, Clarence G., assignor.)
Columnar Heat, Incorporated. (See Kimball, D. D., and Cucci, assignors.)
Condon, Edward T. (See Nisbet, Theodore B., assignor.)
Condron, Mark M., Memphis, Tenn. Automatic adjusting splined gear-wheel seat. 1,943,266; Jan. 9.
Continental Motors Corporation. (See Fink, James O., assignor.)
Continental Motors Corporation. (See Meyer, Andre J., assignor.)
Cook, Adoniram J., Westerlo, N. Y. Car truck journal box. 1,942,954; Jan. 9.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Cathode ray sound recording. 1,943,109; Jan. 9.
Cooney, John L., Erie, Pa. Method of and apparatus for treating and handling material. 1,942,855; Jan. 9.
Coppage, William R., Livingstone Heights, Va. Bottle pick-up and handling mechanism. 1,943,004; Jan. 9.
Coradi, Oswald, Zurich, Switzerland. Pantographic map drawing apparatus. 1,943,205; Jan. 9.
Corbett, Mitchell S., Chicago, Ill. Vaginal douche. 1,943,110; Jan. 9.
Corneloup, Louis, Paris, France. Folding ladder with rear prop. 1,943,206; Jan. 9.
Corning Glass Works. (See Van Ness, Willard L., assignor.)
Coryell, William C., Youngstown, Ohio, assignor, by mesne assignments, to United Engineering and Foundry Company, Pittsburgh, Pa. Strip mill. 1,943,005; Jan. 9.
Cosgrove, Allen R., assignor to Martin-Parry Corporation, York, Pa. Vaporizer for refrigerators. 1,943,006; Jan. 9.
Cosgrove, Allen R., assignor to Martin-Parry Corporation, York, Pa. Vaporizer for refrigerators. 1,943,007; Jan. 9.
Cottrell, Oliver B. (See Mangham, L., and Cottrell.)
Crapo, Frederick M., assignor to Indiana Steel & Wire Company, Muncie, Ind. Telephone transmission line. 1,942,411; Jan. 9.
Craw, Frank C., East Norwalk, Conn. Nonreversible steering mechanism. 1,942,472; Jan. 9.
Crawford, Charles J., London, assignor of one-half to Thomas Bateman Powell, Surrey, England. Sliding clasp fastening. 1,943,111; Jan. 9.
Crawford, Robert B. (See Forrest, H. O., Van Horn, Keith, and Crawford.)
Crescent Tool Company. (See Whalan, J. P., and Harkness, assignors.)
Criner, Harry E., Davenport, assignor to The Micro Corporation, Bettendorf, Iowa. Bread slicing machine. 1,942,955; Jan. 9.
Crispin, Edwin S., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich. Handle lock for vacuum cleaners. 1,943,163; Jan. 9.
Cucci, Victor J. (See Kimball, D. D., and Cucci.)
Cudney, Harry J. (See Wiley, Roy R. and W. K., and Cudney.)
Cummings, Nephi W., San Bernardino, Calif. Liquid level gauge. 1,943,207; Jan. 9.
Curtis, Austen M., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Light valve. 1,943,112; Jan. 9.
Cutler, Frank W., Portland, Oreg., assignor to Food Machinery Corporation, San Jose, Calif. Conveyer. 1,942,538; Jan. 9.
Cuyler, Robert F., assignor to Ray-Glo Corporation, Athens, Ohio. Gas burner. 1,942,397; Jan. 9.
Dahl, George B. (See McDonald, J., and Dahl.)
Dailey, Lewis A. (See McCormick, E., and Dailey.)
Daman, Arthur C., Denver, Colo. Flotation machine. 1,942,808; Jan. 9.
Dana, Leo I., Buffalo, assignor to The Linde Air Products Company, New York, N. Y. Apparatus for dispensing gas material. 1,943,059; Jan. 9.
Daniels, Fred H., assignor to Riley Stoker Corporation, Worcester, Mass. Furnace and method of operating. 1,942,687; Jan. 9.
Danielson, Charles, Minneapolis, Minn. Ironing table. 1,942,916; Jan. 9.
Daum, Charles, New York, N. Y. Food slicer. 1,943,113; Jan. 9.
Dauteuil, Edouard F., Saint-Denis, France. Machine for filling and corking bottles of any shape and dimension. 1,943,208; Jan. 9.
Davis, Clarence R., assignor to Davis Tool & Engineering Company, Detroit, Mich. Automobile license plate holder. 1,943,060; Jan. 9.
Davis, David R., Los Angeles, Calif. Fluid foil. 1,942,688; Jan. 9.
Davis, Gervase P., Lake Placid, N. Y. Open fireplace grate. 1,943,209; Jan. 9.
Davis, Horace W., Binghamton, N. Y. Article of furniture. 1,942,856; Jan. 9.
Davis, Richard O. (See Swain, R. K., and Davis.)
Davis Tool & Engineering Company. (See Davis, Clarence R., assignor.)
Davis, Walter F., and C. E. Norelius, assignors to Seeger Refrigerator Company, St. Paul, Minn. Refrigerator door covering attachment. 1,942,509; Jan. 9.
Dayton, James M., Torrington, Conn. Meter calibrating device. 1,943,164; Jan. 9.
Deere, John, Tractor Company. (See McCormick, E., and Dailey, assignors.)
Degener, Edward K., Los Angeles, Calif. Torsional cross joint. 1,942,746; Jan. 9.
Degener, Gustave O., San Francisco, Calif., assignor to Royal Typewriter Company, Inc., New York, N. Y. Manifolding device. 1,942,747; Jan. 9.
De Giers, Clarence A., Forest Hills, assignor, by mesne assignments, to R. C. Murphy, New York, N. Y. Remote temperature indicator. 1,943,267; Jan. 9.
De Grey, Jack A., Paris, France. Apparatus for making explosive gaseous mixtures. 1,942,956; Jan. 9.
De la Torre, J., E. Hijo. (See de la Torre, Jesus, assignor.)
De la Torre, Jesus, assignor to J. de la Torre E. Hijo, Mexico, Mexico. Filtering element. 1,943,165; Jan. 9.
De Lavaud, Dimitri S., Paris, France. Automatically variable pitch propeller. 1,943,210; Jan. 9.
Dent, Edward J., Montclair, N. J., assignor to American Coffee Corporation, Brooklyn, N. Y. Roasting coffee. 1,943,211; Jan. 9.
D'Este, John N., Milo, Maine, and W. R. Tower, Newton, assignors to Jiffy Pad and Excelsior, Inc., Boston, Mass. Heat-insulated paper bag and making the same. 1,942,917; Jan. 9.
Detroit Lubricator Company. (See MacKenzie, Russell E., assignor.)
Detroit-Michigan Stove Company. (See Maul, Henry C., assignor.)
Denbel, Carl G., assignor to Progressive Service Company, St. Louis, Mo. Perforating device. 1,942,539; Jan. 9.
Deutsch, Fritz, Kreuzlingen, Thurgau, Switzerland. Lampholder. 1,942,804; Jan. 9.
Deutsch, Fritz, Kreuzlingen, Thurgau, Switzerland. Globe with appliances mounted for attaching them. 1,942,805; Jan. 9.
Deutsch, Nikolas, Budapest, Hungary. Thread drawing device. 1,943,212; Jan. 9.
De Vilbiss Company, The. (See Fawkes, Charles E., assignor.)
De Ybarrondo, Vincent C., assignor to Patco, Inc., Los Angeles, Calif. Method and apparatus for projecting two or more actions or scenes at the same time. 1,942,748; Jan. 9.
Deyes, Herbert S. (See Kessler, F., Deyes, and Scowcroft.)
Dhein, Peter J., Pottsville, Pa. Mine car brake. 1,942,806; Jan. 9.
Dickinson, Joseph R., New York, assignor of one-half to W. A. Ryan, Brooklyn, N. Y. Lifeboat launching device. 1,943,166; Jan. 9.
Diemer, John A., Evanston, and J. E. Gardiner, Chicago, Ill. Means for defrosting cooling element of mechanical refrigerators. 1,942,412; Jan. 9.
Diesbourg, Arthur, Kitchener, Ontario, Canada. Liquid container. 1,942,957; Jan. 9.
Dieter, Paul W., assignor to P. W. Dieter, Inc., New York, N. Y. Journal bearing. 1,943,167; Jan. 9.
Dieter, P. W., Inc. (See Dieter, Paul W., assignor.)
Dietz, George E., Louisville, Ky. Automatic lever for furnaces. 1,943,213; Jan. 9.

Dietz, Joseph B., Lansdowne, and E. F. Oeffinger, Philadelphia, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Varnish composition and shellac substitute. 1,942,413; Jan. 9.
Disch, Carl F., West Haven, Conn. Jar cover opener. 1,942,918; Jan. 9.
Dodd, S. Mark, et al. (See Kunzelman, John R., assignor.)
Donle, Harold P. (See Hogan, J. V. L., and Donle.)
Doppel, Harry B., Forest Hills, N. Y. Card or label holder. 1,943,168; Jan. 9.
Dotterweich, Andrew J., assignor to Automatic Water Softener Company, Pittsburgh, Pa. Water softening apparatus. 1,942,807; Jan. 9.
Dotterweich, Andrew J., assignor to Automatic Water Softener Company, Pittsburgh, Pa. Water softening apparatus. 1,942,808; Jan. 9.
Douglas, James K., assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic drive for machine tools. 1,943,061; Jan. 9.
Dow Chemical Company, The. (See Britton, Edgar C., assignor.)
Dow Chemical Company, The. (See Griswold, Thomas, Jr., assignor.)
Dow Chemical Company, The. (See Mills, Lindley E., assignor.)
Dow Chemical Company, The. (See Mills, L. E., and Fayerweather, assignors.)
Draper, Ernest E., Scarsdale, assignor to The Perser Corporation, New York, N. Y. Making stereoscopic pictures by instantaneous exposure. 1,942,638; Jan. 9.
Draw-Trim Corporation of America. (See Jansen, Ernest D., assignor.)
Dresser, S. R., Manufacturing Company. (See Pfefferle, George H., assignor.)
Dreyfus, Henry, London, and E. Kinsella, J. Bower, and W. I. Taylor, Spondon, near Derby, England, assignors to Celanese Corporation of America. Apparatus for the production of artificial filaments or threads. 1,942,540; Jan. 9.
Driscoll, Edward A., New York, N. Y. Preventing the formation of ice on airplanes and the like. 1,943,062; Jan. 9.
Dube, Isadore H., Cincinnati, Ohio. Match box holder. 1,943,214; Jan. 9.
Duffendack, Ora S. (See Rabezzana, H., and Duffendack.)
Dumser, Leo A., and P. S. Jackson, assignors to Sundstrand Machine Tool Co., Rockford, Ill. Actuating means for machine tools. 1,942,414; Jan. 9.
Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Textile roll and making the same. 1,943,215; Jan. 9.
Dunn, Jerry J., Ellwood City, and P. C. Patterson, McKeesport, Pa., assignors to National Tube Company. Making seamless tubes. 1,942,541; Jan. 9.
Dünnebier, Max. (See Winkler, A., and Dünnebier.)
Du Pont, E. I., de Nemours & Company. (See Barrett, Harold J., assignor.)
Du Pont Rayon Company. (See Chandler, Carroll F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Dietz, J. B., and Oeffinger, assignors.)
Du Pont, E. I., de Nemours & Company. (See Iliff, J. W., and Young, assignors.)
Du Pont, E. I., de Nemours & Company. (See Whitescarver, W. F., and Hopkins, assignors.)
Durand & Huguenin S. A. (See Roulet, Jean-Jacques, assignor.)
Dürr, Ludwig, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Bodensee, Germany. Light weight girder for aircraft. 1,943,236; Jan. 9.
Durrant, Cyril L. (See Durrant, George and C. L.)
Durrant, George and C. L., Stockport, England. Selvedge printing machine for printing trade-marks on cloth and the like. 1,942,749; Jan. 9.
Eastman Kodak Company. (See Brooker, Leslie G. S., assignor.)
Eastman Kodak Company. (See Hickman, Kenneth C. D., assignor.)
Eastman Kodak Company. (See McMaster, Donald, assignor.)
Eastman Kodak Company. (See Murray, Alexander, assignor.)
Eastman Kodak Company. (See Sheppard, S. E., and Eberlin, assignors.)
Eastman Kodak Company. (See Smith, Henry B., assignor.)
Eastman Kodak Company. (See Taylor, E. R., and Allen, assignors.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eastman Kodak Company. (See Young, Albert A., assignor.)
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Control system. 1,943,114; Jan. 9.
Eberlin, Leon W. (See Sheppard, S. E., and Eberlin.)
Eclipse Machine Company. (See Christian, Frank T., assignor.)
Eclipse Machine Company. (See Sekella, Youston, assignor.)
Edgren, Fred E. and R. A., Chicago, Ill. Wall-paper trimmer's straightedge. 1,942,542; Jan. 9.
Edgren, Roy A. (See Edgren, Fred E. and R. A.)
Edwards, Paul S., Fort Meade, Md., and C. D. Barbulesco, Dayton, Ohio. Altimeter installation. 1,942,594; Jan. 9.
Eggert, John, Leipzig, and G. Heymer, Dessau, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y. Making film supports for color photography. 1,943,169; Jan. 9.
Egyptian Lacquer Manufacturing Company. (See Randolph, Wendell G., assignor.)
Electric Storage Battery Company, The. (See Galloway, Charles D., assignor.)
Electric Storage Battery Company, The. (See Graf, Ernest, assignor.)
Electric Storage Battery Company, The. (See Smith, Edward W., assignor.)
Electric Storage Battery Company, The. (See Woodbridge, Joseph L., assignor.)
Electrolux Servel Corporation. (See Taylor, R. S., and Heim, assignors.)
Ellis, George H., and R. J. Mann, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of cellulose derivatives. 1,943,008; Jan. 9.
Ellis, George T., Trenton, N. J. Theft preventive device for automobiles. 1,943,216; Jan. 9.
Ellis, William C., Malverne, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical insulation for magnetic bodies. 1,943,115; Jan. 9.
Emms, Sydney A. G. (See Wilson, W., and Emms.)
Engler, Max L., and W. J. Breth, assignors to The General Tire & Rubber Company, Akron, Ohio. Stock rack. 1,942,639; Jan. 9.
Erbach, Frederick R., Detroit, Mich. Domestic power unit. 1,942,689; Jan. 9.
Erwin, William C., Winthrop, Mass. Reciprocating motor. 1,943,009; Jan. 9.
Eue, Frederick W., St. Paul, Minn. Plant support. 1,942,750; Jan. 9.
Eureka Vacuum Cleaner Company. (See Crispin, Edwin S., assignor.)
Eurich, Richard H., and B. F. Anthony, assignors to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Machine for continuous centrifugal casting. 1,942,919; Jan. 9.
Evans, Russell G., Detroit, Mich. Radio receiving apparatus. 1,942,751; Jan. 9.
Fairbanks, Morse & Co. (See Goldberg, Morris J., assignor.)
Fairbanks, Morse & Co. (See Harstick, William H., assignor.)
Falk, Abraham, Flushing, N. Y. Tie rack. Des. 91,319; Jan. 9.
Fawkes, Charles E., Chicago, Ill., assignor to The De Vilbiss Company, Toledo, Ohio. Viscosimeter. 1,942,920; Jan. 9.
Fayerweather, Bruce L. (See Mills, L. E., and Fayerweather.)
Federici, Vincent, Bronx, assignor to Gurney Elevator Company, Inc., New York, N. Y. Dual system of control for elevators. 1,942,415; Jan. 9.
Felix, Friedrich, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Azo-dyestuffs and making same. 1,943,170; Jan. 9.
Fellows, Edwin R., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Helical gear grinding machine. 1,942,416; Jan. 9.
Fellows Gear Shaper Company, The. (See Fellows, Edwin R., assignor.)
Fenton, Frank, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Valve for inflatable articles. 1,942,959; Jan. 9.
Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Molded button. 1,943,063; Jan. 9.
Ferlin, John J., Los Angeles, and H. W. Goetz, Alhambra, Calif. Valve. 1,942,417; Jan. 9.
Feucht, Albert, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Rock drill. 1,942,690; Jan. 9.
Fibre Making Processes, Inc. (See Christensen, Andreas, assignor.)
Fink, James O., assignor to Continental Motors Corporation, Detroit, Mich. Clutch. 1,942,691; Jan. 9.
Firma Paul Lechler. (See Müller, K., and Hutzenlaub, assignors.)
Fischer, Charles H. and F. H., Cincinnati, Ohio. Post binder. 1,942,595; Jan. 9.
Fischer, Frederick H. (See Fischer, Charles H. and F. H.)
Fischer, Fritz, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electrical machine. 1,943,064; Jan. 9.
Fischer, Fritz, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electrical drive for sound film equipments and the like. 1,943,065; Jan. 9.
Fitzpatrick, James C. (See Rhodes, E. O., Volkmann, and Fitzpatrick.)
Flegler, Eugen. (See Rogowski, W., and Flegler.)
Fleischer, Joseph, assignor to Frigidaire Corporation, Dayton, Ohio. Chemistry. 1,943,268; Jan. 9.
Flexlume Corporation. (See Wiley, R. R., and Brandt, assignors.)
Flexlume Corporation. (See Wiley, Roy R. and W. K., and Cudney, assignors.)
Florence Stove Company. (See Bradbury, William T., assignor.)

Follict, Alexandre, and N. Sainderichin, Paris, France. Cementation mixture for ferrous metals. 1,943,171; Jan. 9.
Food Machinery Corporation. (See Cutler, Frank W., assignor.)
Ford, Frederick H., Waupun, Wis. Golf player's club selecting device. 1,943,066; Jan. 9.
Ford, George W., Patcham, Brighton, England. Production of distorted photographs. 1,943,172; Jan. 9.
Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., Pneumatic engine. 1,942,543; Jan. 9.
Formica Insulation Company, The. (See Lytle, Robert W., assignor.)
Forrest, Henry O., West Englewood, L. Van Horn, Elizabeth, and P. C. Keith, Short Hills, N. J., and R. B. Crawford, Brooklyn, N. Y. Refrigerating system. 1,943,116; Jan. 9.
Forté, Harry P., Newton Highlands, assignor to Lever Brothers Company, Cambridge, Mass. Drying soap flakes. 1,942,418; Jan. 9.
Foster Brothers Manufacturing Company. (See Foster, William B., assignor.)
Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Coiled spring structure. 1,943,067; Jan. 9.
Fowler, Fred D., Newton, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for producing embossed articles from plastic strip material. 1,942,398; Jan. 9.
Frandl, Antonio E., Mexico, Mexico. Safety razor. 1,943,173; Jan. 9.
Frank, William E., Willow Grove, Pa., assignor, by mesne assignments, to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston expander. 1,942,960; Jan. 9.
Franklin, Lester K., Chicago, Ill. Closure for tanks, radiators, and the like. 1,943,010; Jan. 9.
Freiberg, Stanley B., assignor to The International Visible Systems Corporation, Cincinnati, Ohio. Index device. 1,942,510; Jan. 9.
French, Thomas E. (See Kern, F. B., and French.)
Frick Company. (See Zumbro, Frank R., assignor.)
Fried, Krupp Germaniawerft Aktiengesellschaft. (See Huster, Alfred, assignor.)
Frigidaire Corporation. (See Flöischer, Joseph, assignor.)
Fromme, Frank W., Cincinnati, Ohio. Wrench. 1,942,640; Jan. 9.
Frost, Myron O., assignor to Johnson, Stephens & Shinkle Shoe Co., St. Louis, Mo. Making shoes. 1,942,419; Jan. 9.
Fryar, James B., Dayton, Ohio. Float operated switch. 1,943,011; Jan. 9.
Fuller, Arthur D., New Rochelle assignor to National Adhesives Corporation, New York, N. Y. Manufacturing modified starches, dextrines, and British gums. 1,942,544; Jan. 9.
G. & W. Electric Specialty Co. (See Sward, Cecil W., assignor.)
Gabler, Johann, Ettlingen, Germany. Weft-shoot-changing device for gripper looms. 1,943,012; Jan. 9.
Gagnon, Flora. (See Gagnon, Henry J., assignor.)
Gagnon, Henry J., assignor of one-half to F. Gagnon, Bay City, Mich. Sanding device for automotive vehicles. 1,942,921; Jan. 9.
Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Upholstery needle. 1,943,174; Jan. 9.
Gail, John F., Evanston, Ill. assignor to Simmons Company, New York, N. Y. Machine for assembling mattress tufts and tufting cords. 1,942,420; Jan. 9.
Gale, Charles E., Quincy, Mass. Method of and sheet for making flat opening books. 1,942,399; Jan. 9.
Galloway, Charles D., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Storage battery filling machine. 1,942,641; Jan. 9.
Gangler, Paul, Esslingen, assignor to the firm Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Stuttgart, Cannstatt, Germany. Filling device for packing machines. 1,943,013; Jan. 9.
Gardner, John E. (See Dienner, J. A., and Gardner.)
Gardner, Prince A., jr., University City, Mo. Bill fold or receptacle. 1,942,473; Jan. 9.
Gardner, Prince A., jr., St. Louis, Mo. Embossing and printing machine. 1,943,068; Jan. 9.
Garlock Packing Company, The. (See Hubbard, C. R., and Armstrong, assignors.)
Garlock Packing Company, The. (See Hubbard, C. R., and Waples, assignors.)
Garretson, John D., Oakland, Calif. Safety razor. 1,942,692; Jan. 9.
Gaubert, John O., Dayton, Ohio, assignor, by mesne assignments to Radio Corporation of America, New York, N. Y. Electrical apparatus. 1,942,961; Jan. 9.
Gaudenzi, Arthur. (See Widmer, S., and Gaudenzi.)
Gedris, William A., assignor to Ideal Seating Company, Grand Rapids, Mich. Seat hanger. 1,942,752; Jan. 9.
General Aniline Works, Inc. (See Kunz, M. A., and Koeberle, assignors.)
General Aniline Works, Inc. (See Laska, L., Zitscher, Christ, and Petzold, assignors.)
General Body & Hoist Company. (See Higgins, Clark F., assignor.)
General Cable Corporation. (See McKnight, Edgar W., assignor.)
General Cable Corporation. (See Potter, F. M., and McKnight, assignors.)
General Chemical Company. (See Mullen, Edwin J., assignor.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Eaton, John, assignor.)
General Electric Company. (See Lenz, Paul, assignor.)
General Electric Company. (See Mohler, Francis, assignor.)
General Electric Company. (See Stewart, James N., assignor.)
General Motors Corporation. (See Brittain, Richard J., jr., assignor.)
General Railway Signal Company. (See Brown, Ned C. L., assignor.)
General Railway Signal Company. (See Wight, Sedgwick N., assignor.)
General Tire & Rubber Company, The. (See Bittaker, Charles E., assignor.)
General Tire & Rubber Company, The. (See Engler, M. L., and Breth, assignors.)
General Tire & Rubber Company, The. (See Harrington, Ralph H., assignor.)
Gerlach, Glendon T. (See Basquin, O. H., Harazin, and Gerlach.)
Gerow, Leonard H., Toledo, Ohio. Golf club grip. 1,942,922; Jan. 9.
Gerrish, John G., Brookline, Mass. Motor snowplow. 1,942,809; Jan. 9.
Gettinger, Joseph, Detroit, Mich. Photo-electric tube. 1,942,545; Jan. 9.
Gibbs, John C., Brooklyn, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Two-piece screw cap. 1,942,810; Jan. 9.
Gigi, Angelina, Miami, assignor of one-half to H. Rich, Pahokee, Fla. Bathroom cabinet. Des. 91,320; Jan. 9.
Giles, Roy N., Casper, Wyo., assignor to Standard Oil Company, Chicago, Ill. Dewaxing mineral oils. 1,943,236; Jan. 9.
Giles, William R. (See Pasternack, R., and Giles.)
Gillies, William R., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Insulating material. 1,942,546; Jan. 9.
Glancy, Anna E., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. 1,942,400; Jan. 9.
Gleason, Frederick H., Auburn, N. Y. Lubricating system. 1,943,014; Jan. 9.
Godfrey, Elmore M., jr., Knoxville, Tenn. Dispensing receptacle. 1,943,217; Jan. 9.
Goetz, Herbert W. (See Ferlin, J. J., and Goetz.)
Going, George G., Glenbrook, Conn., assignor to Remington Rand Inc., New York, N. Y. Typewriting machine. 1,943,015; Jan. 9.
Goldberg, Morris J., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Governor control mechanism. 1,943,069; Jan. 9.
Golden, William E., Chicago, Ill. Race track equipment. 1,942,642; Jan. 9.
Goodrich, B. F., Company, The. (See Fenton, Frank, assignor.)
Goodrich, B. F., Company, The. (See Fowler, Fred D., assignor.)
Goodrich, B. F., Company, The. (See Moffitt, Lucian Q., assignor.)
Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)
Goodrich, B. F., Company, The. (See Zimmerli, W. F., and Semon, assignors.)
Goodrich Company, B. F., The. (See Leguillon, Charles W., assignor.)
Gordon, Walter A., Garden City, and D. J. O'Neil, New York, N. Y., assignors to American Telephone and Telegraph Company. Binder. 1,942,547; Jan. 9.
Goss Printing Press Company. (See Brueshaber, Martin W., assignor.)
Gough, Harold, assignor to The British Cotton & Wool Dyers' Association Limited, Manchester, England. Machine for dyeing yarn. 1,943,175; Jan. 9.
Gough, James J., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Shaded-pole induction motor. 1,943,270; Jan. 9.
Graenacher, Charles, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Cellulose solution. 1,943,176; Jan. 9.
Graf, Ernest, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Vent plug for storage batteries. 1,942,643; Jan. 9.
Graf, Ernest, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Vent plug for storage batteries. 1,942,645; Jan. 9.
Graham, Malcolm K., Graham, Tex. Sleeping porch curtain. 1,942,474; Jan. 9.
Grapp, William L., Belgrade, Mill. Mattress and the like and manufacturing the same. 1,942,693; Jan. 9.
Grauman, L., Company. (See Ludwig, Frank W., assignor.)
Grave, Georg, Frankfort-on-the-Main, Germany, assignor to International Precipitation Company, Los Angeles, Calif. Electrical precipitation apparatus. 1,943,070; Jan. 9.
Green, Irving W., Cranford, N. J., assignor to American Telephone and Telegraph Company. Single stroke gong. 1,942,811; Jan. 9.

CARNEGIE LIBRARY OF ATLANTA

Greimann, Fred W., Sheffield, Iowa. Corn coverer. 1,943,219; Jan. 9.
Griffin, Oliver, Escondido, Calif. Bead tip hair tooth comb. 1,942,753; Jan. 9.
Griffis, Lawrence W., North Tonawanda, assignor to Van Raalte Company, New York, N. Y. Textile fabric. Des. 91,321; Jan. 9.
Grison, Joseph, New York, N. Y. Massaging device. Re19,043; Jan. 9
Griswold, Thomas, jr., assignor to The Dow Chemical Company, Midland, Mich. Tubular heating element. 1,942,694; Jan. 9.
Gross, Edward, Portland, Oreg. Fire escape. 1,942,695; Jan. 9.
Grubman, Leo J., Belle Harbor, Long Island, assignor to Margon Corporation, New York, N. Y. Artificial eyes for dolls, mannikins, and the like. 1,943,117; Jan. 9.
Guenther, Fritz, and K. Saftien, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production or organic products from 7.18-stearic glycol. 1,942,812; Jan. 9.
Gunn, Ross, Washington, D. C. Apparatus for measuring altitude. 1,942,421; Jan. 9.
Gurney Elevator Company. (See Federici, Vincent, assignor.)
Guttormson, Greger E., Fort Ransom, N. Dak. Weed burner. 1,943,218; Jan. 9.
Guttormsson, Stephan, Winnipeg, Manitoba, Canada. Device for determining azimuth by observations on polaris. 1,942,548; Jan. 9.
Guyler, Albert F. (See Welch, S. A., Guyler, Ashby, and Boaler.)
Hadfield, Frederick H., Auckland, New Zealand. Clutch mechanism. 1,943,016; Jan. 9.
Haines, Homer B., assignor to The Ohio Power Shovel Company, Lima, Ohio. Detachable extension for tractor trucks. 1,942,475; Jan. 9.
Haiss, George, Manufacturing Co. Inc. (See Bosworth, William H., assignor.)
Hamilton, John R. (See Lowe, E. A., and Hamilton.)
Hammer, Edwin W. (See Kritzer, Richard W., assignor.)
Hampton, Leon N., New York, N. Y., assignor to A C Spark Plug Company. Fluid transfer device. 1,942,549; Jan. 9.
Hanna, Daisy B., Indianapolis, Ind. Douche device. 1,942,422; Jan. 9.
Harazin, Charles. (See Basquin, O. H., Harazin, and Gerlach.)
Harkness, Louis T. (See Whalan, J. P., and Harkness.)
Harrington, Herbert W., London, England. Moistening device. 1,942,813; Jan. 9.
Harrington, Ralph H., assignor to The General Tire & Rubber Company, Akron, Ohio. Advertising device. 1,943,237; Jan. 9.
Harris, George H., Portsmouth, Ohio. Builder's guide. 1,943,017; Jan. 9.
Harris, Gordon D., Old Greenwich, assignor to The Industrial Dryer Corporation, Stamford, Conn. Apparatus for hanging tobacco. 1,942,893; Jan. 9.
Harris, Parley F., Washington, D. C. Trap. 1,943,177; Jan. 9.
Harris-Seybold-Potter Company. (See Valiquette, William L., assignor.)
Harris, William W., Brockton, Mass. Marble target game. 1,942,476; Jan. 9.
Harshberger, Norman P., Pasadena, Calif., assignor to Bakelite Building Products Co., Inc., New York, N. Y. Accelerating the saturation of fabric-based sheets with bituminous material. 1,943,257; Jan. 9.
Harshberger, Norman P., Scarsdale, assignor to Bakelite Building Products Co., Inc., New York, N. Y. Producing building material. 1,943,258; Jan. 9.
Harstick, William H., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Power transmission mechanism. 1,943,071; Jan. 9.
Hart, Effe, administratrix. (See Hart, Howard C.)
Hart, Howard C., deceased, Russiaville, Ind., Effe Hart, administratrix. Automatic lock for window operators. 1,942,962; Jan. 9.
Hartshorn, Stewart, Company. (See Watts, Harry W., assignor.)
Hazeltine Corporation. (See Walsh, Lincoln, assignor.)
Hazeltine Corporation. (See Whitman, Vernon E., assignor.)
Hazleton, Frank M. (See Carver, A. W., and Hazleton.)
Hegeler Zinc Company, The. (See McCreary, M. A., and Porter, assignors.)
Heim, Roy A. (See Taylor, R. S., and Heim.)
Heinitz, Woldemar, assignor to Schuber & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany. Knitting stockings on flat knitting machines. 1,943,178; Jan. 9.
Helgeby, Ralph O., assignor to A C Spark Plug Company, Flint, Mich. Heat treatment of cables. 1,942,550; Jan. 9.
Helwege, Walter R., assignor to Taylor Freezer Corporation, Beloit, Wis. Ice cream freezer construction. 1,942,696; Jan. 9.
Hench, Jay L., assignor to Mid-West Forging Company, Chicago, Ill. Self-driving post. 1,943,018; Jan. 9.
Henckel, Paul. (See Stephen, J., and Henckel.)
Hennessy, James J., New York, N. Y. Locomotive driver box. 1,942,963; Jan. 9.
Henney, Grover R., and C. T. Walter, assignors to Swift and Company, Chicago, Ill. Preparation of frozen meat and the like. 1,943,019; Jan. 9.
Henning, Malcolm E., assignor to Penn Electric Switch Co., Des Moines, Iowa. Surface switch. 1,942,697; Jan. 9.
Henning, Malcolm E., assignor to Penn Electric Switch Co., Des Moines, Iowa. Float switch with auxiliary circuit control. 1,942,698; Jan. 9.
Henning, Malcolm E., assignor to Penn Electric Switch Co., Des Moines, Iowa. Three-position switch and reset. 1,942,699; Jan. 9.
Henning, Malcolm E., assignor to Penn Electric Switch Co., Des Moines, Iowa. Switch structure. 1,942,700; Jan. 9.
Henry, Augustus M., Brooklyn, N. Y. Edible article. 1,942,423; Jan. 9.
Hentschel, Ernest R., deceased, Washington, D. C., John Olson, administrator, assignor to Wired Radio, Inc., New York, N. Y. Power supply system for electron tube systems. 1,942,551; Jan. 9.
Hentschel, Ernest R., deceased, Washington, D. C., J. Olson, administrator, assignor to Wired Radio, Inc., New York, N. Y. Shielding system. 1,942,596; Jan. 9.
Hercules Powder Company. (See Wiggam, D. R., and Tinsley, assignors.)
Herrmann, Conrad, Wuppertal-Elberfeld, Germany, assignor to American Glanzstoff Corporation, New York, N. Y. Treating apparatus. 1,943,072; Jan. 9.
Hershey, Harry E., Oak Park, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Signaling system. 1,942,424; Jan. 9.
Hesser, Fr., Maschinenfabrik-Aktiengesellschaft. (See Gangler, Paul, assignor.)
Heverly, Earl L., Chicago, and G. H. Hilgendorf, Glencoe, Ill. Lawn sprinkler. 1,943,073; Jan. 9.
Hewgley, James M., Oklahoma City, Okla. Anchoring means for well casings. 1,942,597; Jan. 9.
Hewgley, James M., Oklahoma City, Okla. Expansion head. 1,942,598; Jan. 9.
Heyman, Milton M., New York, N. Y. Mailing wrapper with built-in receptacle. 1,943,074; Jan. 9.
Heymer, Gerd. (See Eggert, J., and Heymer.)
Heyssler, Heinrich, Stubing, Austria. Time interval indicator. 1,942,754; Jan. 9.
Hickman, Kenneth C. D., assignor to Eastman Kodak Company, Rochester, N. Y. Measuring device. 1,942,857; Jan. 9.
Hickman, Kenneth C. D., assignor to Eastman Kodak Company, Rochester, N. Y. Distillation apparatus. 1,942,858; Jan. 9.
Hickman, Kenneth C. D., assignor to Eastman Kodak Company, Rochester, N. Y. Liquid concentration control apparatus. 1,942,859; Jan. 9.
Hickok, Robert D., assignor to Cleveland Patents Incorporated, Cleveland, Ohio. Radio tube tester. 1,942,401; Jan. 9.
Hicks, Guy, et al. (See Mood, Homer W., assignor.)
Hicks, John, et al. (See Mood, Homer W., assignor.)
Higgins, Clark F., Melrose, assignor, by mesne assignments, to General Body & Hoist Company, Everett, Mass. Dumping vehicle. Re19,042; Jan. 9.
Higgins, Leonard J. (See Kulp, Albert C., assignor.)
Hilgendorf, George H. (See Heverly, E. L., and Hilgendorf.)
Hilton, Arthur M., Royston, British Columbia, Canada. Garden hose attachment. 1,942,701; Jan. 9.
Hirsch, George B., Pawtucket, R. I. Frequency control device. 1,942,599; Jan. 9.
Hirsh, Jay E. (See Re Vley, D. G., and Hirsh.)
Hoe, R., & Co. (See Horton, Albert J., assignor.)
Hogan, John V. L., Forest Hills, N. Y., and H. P. Donle, Meriden, Conn., assignors to Radio Inventions, Inc., New York, N. Y. Television method and apparatus. 1,943,238; Jan. 9.
Holbrook, Lewis B., Norwich, Conn. Toy. 1,942,894; Jan. 9.
Holden, Charles E., Chicago, Ill. Christmas tree holder. 1,943,269; Jan. 9.
Holland, Chester O. (See Johnson, A. M., and Holland.)
Holman, Lewis E., Oakland, Calif. Wheel suspenson for vehicles. 1,942,644; Jan. 9.
Holman, Peter, Virginia, Minn. Furrier's art. 1,942,425; Jan. 9.
Holmes, Verena W., Lenzie, near Glasgow, Scotland. Valve gear for fluid pressure units. 1,943,118; Jan. 9.
Holstrom, Harry L., Chicago, Ill. Iron holder. 1,942,755; Jan. 9.
Holtzman, Alexander, Brooklyn, N. Y. Detachable mop. 1,942,552; Jan. 9.
Hook Scraper Company. (See Abrahamsen, Alfred W., assignor.)
Hoover Company, The. (See Smellie, Donald G., assignor.)
Hopkins, Horace H. (See Whitescarger, W. F., and Hopkins.)
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Delinquency indicator of flyback type. 1,942,814; Jan. 9.
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Delinquency indicator of revolving arm type. 1,942,815; Jan. 9.
Hornung, Elias J., Rochester, N. Y. Clamp. 1,942,600; Jan. 9.

Horton, Albert J., White Plains, assignor to R. Hoe & Co., Inc., New York, N. Y., and Irving Trust Company, receiver. Web tension controlling mechanism for use with rotary printing machines. 1,942,964; Jan. 9.

Horton, Ernest J., Pittsburgh, Pa., assignor to Ruud Manufacturing Company. Valve mechanism for main and pilot burners. 1,943,075; Jan. 9.

Horton, Erwin C. (See Hueber, H., and Horton.)

Hosceit, William J., assignor to Rodger Ballast Car Company, Chicago, Ill. Control mechanism for hopper car doors. 1,942,702; Jan. 9.

Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)

Houseman, Harold E., Edge Moor, assignor to Standard-Trump Bros. Machine Company, Wilmington, Del. Knitting machine. 1,942,816; Jan. 9.

Houston, William B., Alhambra, Calif. Waterproofing solution for stuccoed surfaces. 1,942,601; Jan. 9.

Howard, John R., Concord, N. C. Minnow bucket. 1,942,756; Jan. 9.

Hubbard, Cecil R., and F. W. Armstrong, assignors to The Garlock Packing Company, Palmyra, N. Y. Gasket. 1,942,703; Jan. 9.

Hubbard, Cecil R., and F. W. Armstrong, assignors to The Garlock Packing Company, Palmyra, N. Y. Gasket. 1,942,704; Jan. 9.

Hubbard, Cecil R., and R. M. Waples, assignors to The Garlock Packing Company, Palmyra, N. Y. Oil-sealing device. 1,942,705; Jan. 9.

Hubley Manufacturing Company, The. (See Brubaker, Jacob E., assignor.)

Hueber, Henry, assignor to Trico Products Corporation, Buffalo, N. Y. Pump. 1,942,646; Jan. 9.

Hueber, Henry, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield heater. 1,942,647; Jan. 9.

Hughes, Grover A., assignor to Truscon Steel Company, Youngstown, Ohio. Electric welding. 1,943,259; Jan. 9.

Hummert, Robert H., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Door holding device. 1,942,860; Jan. 9.

Hunter, William L., and H. H. Weining, assignors to Northern Equipment Company, Erie, Pa. Valve. 1,942,426; Jan. 9.

Hunter, William L., and K. B. Whitley, assignors to Northern Equipment Company, Erie, Pa. Feed water regulator. 1,942,427; Jan. 9.

Huster, Alfred, Kronshagen, near Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft Kiel-Garden, Prussia, Germany. Producing high-pressure steam. 1,942,861; Jan. 9.

Hutchison, Miller R., jr., Madison, N. J., assignor to Multicycal Pump & Engine Corporation, New York, N. Y. Compressor. 1,942,428; Jan. 9;

Hutzenlaub, Eugen. (See Müller, K., and Hutzenlaub.)

Hyland, Lawrence A., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. High frequency stabilizer. 1,942,602; Jan. 9.

I. G. Farbenindustrie Aktiengesellschaft. (See Ackermann, Karl, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Guenther, F., and Saftien, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, Wilhelm, and Jahrstorfer, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Zaucker, E., Orthner, and Bogemann, assignors.)

Ideal Seating Company. (See Gedris, William A., assignor.)

Iliff, John W., Ridley Park, and H. R. Young, Philadelphia, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Resinous coating composition. 1,942,757; Jan. 9.

Imperial Chemical Industries Ltd. (See Wheeler, T. S., and Binnie, assignors.)

Indiana Steel & Wire Company. (See Crapo, Frederick M., assignor.

Industrial Dryer Corporation, The. (See Harris, Gordon D., assignor.)

Industrial Equipment Company, The. (See Rust, Philip F., assignor.)

Industrial Patents Corporation. (See Bech, Joseph, assignor.

Industrial Patents Corporation. (See Walter, Charles T., assignor.

Industrie A. G. Allegro Ernmenbrucke. (See Barsch, William, assignor.)

International Chromium Process Corporation. (See Simpson, Kenneth M., assignor.)

International Communications Laboratories, Inc. (See Bancroft, Erwin P., assignor.)

International Engineering, Inc. (See Langenkamp, A. G., and McElroy, assignors.)

International Precipitation Company. (See Grave, Georg, assignor.

International Visible Systems Corporation, The. (See Freiberg, Stanley B., assignor.)

Irion, Clarence E., assignor to The Battelle Memorial Institute, Columbus, Ohio. Treating copper and copper alloys. 1,942,923; Jan. 9.

Irvine, Fergus A., New Orleans, La. Protecting fiber products. 1,942,706; Jan. 9.

Irving Trust Company, receiver. (See Horton, Albert J., assignor.

Ivemeyer, Jacob, Beardstown, Ill. Brake beam strut. 1,943,271; Jan. 9.

Jachens, John, San Francisco, Calif. Key retainer. 1,942,924; Jan. 9.

Jackson, Corwill, Ludington, Mich. Apparatus for working concrete and the like. 1,943,076; Jan. 9.

Jackson, Paul S. (See Dumser, L. A., and Jackson.)

Jacobs, Harold F., Brooklyn, N. Y. Miniature baseball game. 1,942,429; Jan. 9.

Jacobson, Bernard H., Charleston, W. Va., assignor, by mesne assignments, to The Calco Chemical Company, Inc., Bound Brook, N. J. Manufacture of acyl-benzoic acid compounds. 1,942,480; Jan. 9.

Jacobus, Nelson L., Hempstead, assignor to Nelson Lee Jacobus, Inc., Hempstead Gardens, Long Island, N. Y. Portable hothouse. 1,942,477; Jan. 9.

Jacobus, Nelson Lee, Inc. (See Jacobus, Nelson L., assignor.)

Jaeger, Alphons O., Mount Lebanon, assignor to The Belden Company, Pittsburgh, Pa. Catalytic apparatus. 1,942,817; Jan. 9.

Jahrstorfer, Michael. (See Pungs, W., and Jahrstorfer.)

James, Henry D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuitous elevator. 1,943,119; Jan. 9.

James, Kenneth B., Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Tire. Des. 91,322; Jan. 9.

James, Nephanus E., et al. (See Clayton, William F., assignor.)

James, William E., et al. (See Clayton, William F., assignor.)

Jamison, Thomas J., Munhall, Pa. Rabbling device. 1,942,553; Jan. 9.

Jansen, Agnese C., administratrix. (See Jansen, Ernest D.)

Jansen, Ernest D., deceased, by A. C. Jansen, administratrix, assignor to Draw-Trim Corporation of America, Albany, N. Y. Poultry-dressing machine. 1,943,077; Jan. 9.

Jenaer Glaswerk Schott & Gen. (See Berger, Edwin, assignor.)

Jenkins & Adair, Inc. (See Jenkins, John E., assignor.)

Jenkins, John E., assignor to Jenkins & Adair, Inc., Chicago, Ill. Portable boom support. 1,942,925; Jan. 9.

Jenkins, Russell L., Anniston, Ala., assignor to Swann Research, Incorporated. Composition containing chlorinated diphenyl and nitrocellulose. 1,942,926; Jan. 9.

Jenner, Ralph L., East Orange, N. J., assignor to Lapp Insulator Company, Inc. Slip clamp. 1,942,862; Jan. 9.

Jennings, O. D., & Company. (See Mihalek, Emery, assignor.)

Jenny, Alexander, Berlin, assignor to Siemens Elektro-Osmose, G. m. b. H., Siemensstadt, near Berlin, Germany. Electro-osmotic fractionation of glue and gelatine. 1,942,478; Jan. 9.

Jensen, William S., Chico, Calif. Piston valve. 1,942,648; Jan. 9.

Jessup, George L., Woodland, Calif. Electric heater. 1,942,758; Jan. 9.

Jiffy Pad and Excelsior, Inc. (See d'Este, J. N., and Tower, assignors.)

Johannsen, Udo K., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Control shutter for engine radiators. 1,943,239; Jan. 9.

Johanson, Karl G., West Concord, Mass. Folding table. 1,942,603; Jan. 9.

Johnson, Albert M., and C. O. Holland, assignors to Barnes Drill Co., Rockford, Ill. Hydraulically actuated indexing mechanism. 1,942,927; Jan. 9.

Johnson, Carl E., Pasadena, assignor to Sterling Electric Motors, Inc., Los Angeles, Calif. Line-start induction motor. 1,942,649; Jan. 9.

Johnson, Karl V., Los Angeles, Calif. Cable tap connecter. 1,943,020; Jan. 9.

Johnson, Stephens & Shinkle Shoe Co. (See Frost, Myron O., assignor.)

Johnstone, James, Portland, Oreg. Fixing furnace linings. 1,942,863; Jan. 9.

Jones, Arch L., Henderson, Ky. Seed-dispensing cabinet. 1,942,895; Jan. 9.

Jones, David J., assignor to MacElhone Methods, Inc., Binghamton, N. Y. Ice-cream cone. 1,942,896; Jan. 9.

Jones, John F., Brookline, Mass., assignor to The Pharis Tire and Rubber Company, Newark, Ohio. Tire or similar article. Des. 91,323; Jan. 9.

Jones, Katie L., Kansas City, Mo. Window burglar guard and alarm. 1,942,707; Jan. 9.

Jones, Paul W. (See Peffer, H. C., and Jones.)

Jorden Wine Company. (See Cleland, William B., assignor.)

Jung, Philip H., Huntingdon, assignor of one-half to T. N. Kurtz, Mount Union, Pa. Refractory brick and making. 1,942,431; Jan. 9.

Junor, Donald, Beaverton, and C. A. Sharp, Portland, Oreg. Sod cutter. 1,942,708; Jan. 9.

Kabnick, Stuart, Philadelphia, Pa. Hypodermic syringe. 1,943,120; Jan. 9.

Kahl, Leopold, Charlottenburg, Germany. Recovery indene. 1,943,078; Jan. 9.

Kahn, Julius, and W. F. Schulz, assignor to Truscon Steel Company, Youngstown, Ohio. Plaster supporting structure. 1,943,260; Jan. 9.

Kamrath, Herbert G., assignor to A C Spark Plug Company, Flint, Mich. Oil filter pressure control. 1,942,554; Jan. 9.

Karfoil, Edward, New York, N. Y. Shelf-paper. Des. 91,324; Jan. 9.

Karlström, Adolf M. R., Hyltebruk, Sweden. Apparatus for the separation of particles from liquids. 1,943,180; Jan. 9.

Karrick, Lewis C., New York, N. Y. Apparatus for coking bituminous liquids and the like. 1,942,650; Jan. 9.

Kartaschoff, Valentin, and O. Knecht, assignors to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Preparation of nondyeing metalliferous sulphurized phenol derivatives. 1,943,179; Jan. 9.

Kasden, Nathan, New York, N. Y. Cosmetic container. 1,942,928; Jan. 9.

Kasperson, Frank H., New Haven, Conn. Self-justifying beam-scale. 1,942,709; Jan. 9.

Kautzky, Joe, jr., Fort Dodge, Iowa. Free-line-casting level-wind reel of the nonfree-spool type. 1,942,710; Jan. 9.

Kayler, Frank H. (See Kinne, E. P., and Kayler.)

Keefer, Walter L., assignor to The Wolf Company, Chambersburg, Pa. Vibrator. 1,943,220; Jan. 9.

Keele, Ralph M., assignor to United States Appliance Corporation, San Francisco, Calif. Hair waving apparatus. 1,942,965; Jan. 9.

Keiser, David L., San Antonio, Tex. Current limiter. 1,943,021; Jan. 9.

Keith, Percy C. (See Forrest, H. O., Van Horn, Keith, and Crawford.)

Kelsey-Hayes Wheel Corporation. (See Booth, William N., assignor.)

Kelsey-Hayes Wheel Corporation. (See MacLennan, John, assignor.)

Kelsey-Hayes Wheel Company. (See Wagenhorst, James H., assignor.)

Kelsey-Hayes Wheel Corporation. (See White, John W., assignor.)

Kennedy, Arthur T., Duluth, Minn. Camera leveling and shutter controlling apparatus. 1,942,604; Jan. 9.

Kent Machine Works, Inc. (See Peters, Elmer P., assignor.)

Kern, Francis B., and T. E. French, Surrey, assignors to The Aluminum Plant & Vessel Company, Limited, London, England. Boiling pan, autoclave, digester, and the like. 1,942,818; Jan. 9.

Kershaw, John T., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe. 1,942,652; Jan. 9.

Kessler, Frank, and H. S. Deyes, Liverpool, and J. Scowcroft, Bolton, England, assignors to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 1,942,651; Jan. 9.

Ketchpel, Paul A., Bergenfield, N. J., assignor to The Standard Stoker Company, Incorporated. Combined stoker and firedoor. 1,942,819; Jan. 9.

Kienzle, Herbert, Villingen, Germany. Electrically driven clock. 1,943,079; Jan. 9.

Kiesel, William F., jr., Hollidaysburg, Pa. Air conditioning for railway cars. 1,943,121; Jan. 9.

Kiggins, Olin M., Portland, Oreg. Auto top washing machine. 1,942,653; Jan. 9.

Kimball, Dwight D., Queens, and V. J. Cucci, Brooklyn, assignors to Columnar Heat, Incorporated, New York, N. Y. Heating apparatus. 1,942,432; Jan. 9.

Kimball, Wallace D., Elmhurst, and C. Braren, Queens Village, N. Y., assignors, by mesne assignments, to Standard-Knapp Corporation. Machine for packing articles into boxes. 1,942,555; Jan. 9.

Kimberley, Rupert E., Junin, Argentina, assignor to American Throttle Company, Inc., New York, N. Y. Regulating valve apparatus for locomotive or other steam engines. 1,942,711; Jan. 9.

Kinne, Edmund P., and F. H. Kayler, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill. Coupler. 1,942,759; Jan. 9.

Kinsella, Edward. (See Dreyfus, H., Kinsella, Bower, and Taylor.)

Kinzel, Arch H., Akron, Ohio. Gasket. 1,943,122; Jan. 9.

Kirk, Noel R., Tientsin, China. Dispensing apparatus. 1,942,556; Jan. 9.

Kirsch, Charles W., deceased, G. W. and J. N. Kirsch, Coexecutors, assignors to Kirsch Company, Sturgis, Mich. Drapery suspension fixture. 1,942,712; Jan. 9.

Kirsch Company. (See Kirsch, Charles W., assignor.)

Kirsch, Guy W., et al., executors. (See Kirsch, Charles W.)

Kirsch, John N., et al., executors. (See Kirsch, Charles W.)

Klein, Frederick, College Point, N. Y., assignor to Sipp-Eastwood Corporation, Paterson, N. J. Yarn control means. 1,942,511; Jan. 9.

Kleinman, Jacob L., New York, N. Y. Tennis racket. 1,942,479; Jan. 9.

Klinka, Frank J., Milwaukee, Wis. Collapsible crate. 1,942,713; Jan. 9.

Klusch, Martin, Canton, Ohio. Closure for liquid containers. 1,942,714; Jan. 9.

Knecht, Oskar. (See Kartaschoff, V., and Knecht.)

Knutson, Carl L., Maywood, Ill., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Conduit-holding device. 1,943,261; Jan. 9.

Knutson, Carl L., Maywood, Ill., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Conduit holding device. 1,943,262; Jan. 9.

Koch, William J., Midland Park, assignor to Van Vlaanderen Machine Company, Paterson, N. J. Quetch. 1,942,605; Jan. 9.

Koda, Ishizo. (See Mikamo, Y., and Koda.)

Koeberle, Karl. (See Kunz, M. A., and Koeberle.)

Koehring Company. (See Osman, Ralph T., assignor.)

Koeln, Edmond, et al. (See Kunzelman, John R., assignor.)

Köster, Friedrich, Frankfort-on-the-Main, Germany. Mount for pictures, photographs, and the like. 1,943,022; Jan. 9.

Kranz, Frederick H., Buffalo, assignor to National Aniline & Chemical Co. Inc., New York, N. Y. Making alkyl amino carbinols. 1,942,820; Jan. 9.

Kraybill, Henry R. (See Brewer, P. H., and Kraybill.)

Kreissler, Otto, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Making pulp from fibrous material. 1,942,760; Jan. 9.

Kreutz, Willy, assignor to Felix Schull, Duren, Germany. Welding. 1,943,123; Jan. 9.

Kritzer, Richard W., Chicago, Ill., assignor, by mesne assignments, to Edwin W. Hammer, New York, N. Y. Refrigerating unit. 1,943,124; Jan. 9.

Krüger, Fritz, assignor to Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Cellulose digester. 1,943,221; Jan. 9.

Kulp, Albert C., assignor of one-third to L. J. Higgins, Chicago, Ill. Curtain stretcher. 1,942,821; Jan. 9.

Kunz, Max A., Mannheim, and K. Koeberle, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Halogen derivatives of isodibenzopyrenequinones. 1,942,761; Jan. 9.

Kunzelman, John R., Stillwater, Minn., assignor of one-eighth to E. Koeln, and five-eighths to S. M. Dodd, St. Louis, Mo. Gravity hinge. 1,942,715; Jan. 9.

Kurtz, Thomas N. (See Jung, Philip H., assignor.)

I. G. S. Devices Corporation. (See Barton, Clarence H., assignor.)

Ladd, John W. B., Katonah, N. Y. Apparatus for making absorbent dental rolls. 1,942,654; Jan. 9.

Land, Frank S. (See Robertson, Walter S., assignor.)

Landa, Karl, Landskron, Czechoslovakia. Agricultural implement. 1,942,557; Jan. 9.

Landi, Emanuele, New York, N. Y. Musical tap dancing shoe. 1,943,222; Jan. 9.

Lane, George W., Clifton, assignor to Van Vlaanderen Machine Company, Paterson, N. J. Quetch. 1,942,606; Jan. 9.

Langenkamp, Albert G., and R. H. McElroy, assignors to International Engineering, Inc., Dayton, Ohio. Bread rack. 1,943,023; Jan. 9.

Langston, Samuel M., Wenonah, N. J. Corrugator. 1,943,080; Jan. 9.

Lapp Insulator Company. (See Jenner, Ralph L., assignor.)

Larsen, Louis B., assignor to Acme Motion Picture Projector Company, Chicago, Ill. Motion picture projector "B". 1,942,929; Jan. 9.

Larson, Le Roy, Hordville, Nebr. Window sash detent. 1,942,966; Jan. 9.

La Rue, William D., Philadelphia, Pa., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Sound reproducing machine. 1,942,864; Jan. 9.

Laska, Leopold, A. Zitscher, W. Christ, and A. Petzold, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azodyestuff containing a nitrosogroup. 1,942,865; Jan. 9.

Lathrop, Elbert C. (See Munroe, T. B., and Lathrop.)

Lawless, Charles N., and J. Blackwood, Detroit, Mich. Boiler construction. 1,943,125; Jan. 9.

Lawrason, Levering, assignor to Petroleum Rectifying Company of California, Los Angeles, Calif. Method of and apparatus for agglomerating. 1,942,480; Jan. 9.

Leach, James T., Cleveland, Ohio. Apparatus for tiering strips. 1,942,558; Jan. 9.

Lear, William P., Chicago, Ill., and M. E. Nulsen, assignors to P. R. Mallory & Co., Incorporated, Indianapolis, Ind. Magnetic interrupter. 1,943,240; Jan. 9.

Ledin, Sven H. (See Öman, E., and Ledin.)

Ledin, Sven H., Stockholm, Sweden. Moistureproof igniting composition, especially for matches, and match prepared therewith. 1,942,866; Jan. 9.

Lee, Arthur L., Gibsonia, Pa. Torque limiting coupling. 1,942,512; Jan. 9.

Lee, Oscar, Isabella, Tenn. Cooling and moistening material. 1,942,897; Jan. 9.

Leffel, James, & Company, The. (See Biggs, George A., assignor.)

Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Deicer for aeroplanes. 1,942,867; Jan. 9.

Leibo, Victor, Ridgefield Park, N. J. Chair. 1,943,081; Jan. 9.

Lenz, Paul, Berlin-Grunewald, Germany, assignor to General Electric Company. Electric translating circuit. 1,943,126; Jan. 9.

Lerch, William G., Akron, Ohio, assignor to National-Standard Company, Niles, Mich. Tire bead. 1,943,272; Jan. 9.

Lerch, William G., Akron, Ohio, assignor to National-Standard Company, Niles, Mich. Tire bead. 1,943,273; Jan. 9.

Lerch, William G., Akron, Ohio, assignor to National-Standard Company, Niles, Mich. Tire bead. 1,943,274; Jan. 9.

Lerch, William G., Akron, Ohio, assignor to National-Standard Company, Niles, Mich. Tire bead. 1,943,275; Jan. 9

Levene, Albert H., Newark, N. J. Radiator hood. 1,942,607; Jan. 9.
Lever Brothers Company. (See Forté, Harry P., assignor.)
Levy, Nathan D., New York, N. Y. Textile fabric or similar article. Des. 91,325; Jan. 9.
Liberty Mirror Works. (See Colbert, George F. and W. H., assignors.)
Lilpert, William J., Fort Valley, Ga. Composition of matter. 1,943,181; Jan. 9.
Linde Air Products Company, The. (See Dana, Leo I., assignor.)
Linde Air Products Company, The. (See Smith, Hallam C., assignor.)
Linde Air Products Company. (See Updegraff, Lee C., assignor.)
Lindemann, A. J., & Hoverson Company. (See Rutenber, Edwin A., assignor.)
Lindsay, Etta M. (See Lindsay, Robert F., assignor.)
Lindsay, Robert F., assignor to E. M. Lindsay, Greenville, S. C. Automatic unloader for compressors. 1,942,433; Jan. 9.
Link, Richard A., assignor to The L. A. Young Company, Detroit, Mich. Golf club. 1,942,434; Jan. 9.
Lithman, Leopold, New York, N. Y. Radiator. 1,942,559; Jan. 9.
Lithman, Leopold, New York, N. Y. Radiator. 1,942,560; Jan. 9.
Livingston, John W., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 1,942,513; Jan. 9.
Ljungström, Fredrik, Brevik, Lindingo, assignor to Aktiebolaget Spontan, Stockholm, Sweden. Turbine. 1,942,608; Jan. 9.
Löbl, Oskar, Berlin-Hermsdorf, Germany. Voltage regulating transformer. 1,942,481; Jan. 9.
Lock Patents Holding Corporation. (See Samburg, Maurice, assignor.)
Loosbrock, Edward, Lincoln, Nebr. Battery connecter. 1,942,435; Jan. 9.
Lotter, Adolph G., assignor to Stationers Loose Leaf Co., Milwaukee, Wis. Loose-leaf binder appliance. 1,942,716; Jan. 9.
Louette, Joseph E. O., Poissy, France. Starting device and starting circuit. 1,943,182; Jan. 9.
Lowe, Ernest A., and J. R. Hamilton, Cleveland Heights, Ohio, assignor to Automatic Sprinkler Company of America, Cleveland, Ohio. Automatic fire extinguishing system. 1,942,822; Jan. 9.
Lowe, Ernest A., and J. R. Hamilton, Cleveland Heights, assignors to Automatic Sprinkler Company of America, Cleveland, Ohio. Thermally operated device operating by expansion of air or other gas when heated. 1,942,823; Jan. 9.
Lowell Manufacturing Company. (See Seyforth, Rome C., assignor.)
Ludington, William C., assignor to Ball Brothers Company, Muncie, Ind. Apparatus for producing deep cups from sheet metal. 1,942,930; Jan. 9.
Ludwig, Frank W., assignor to L. Grauman Company, Denver, Colo. Soda fountain sirup pump. 1,942,609; Jan. 9.
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Dürr, Ludwig, assignor.)
Lummus Company, The. (See Reed, Carl S., assignor.)
Lusteroid Container Company. (See Short, Raymond J., assignor.)
Lutz, George W., Dayton, Ohio. Heating apparatus. 1,943,223; Jan. 9.
Lytle, Robert W., Cincinnati, Ohio, assignor to The Formica Insulation Company. Silent gear and manufacture. 1,943,024; Jan. 9.
M-O Valve Company Limited. (See McLeod, Albert E., assignor.)
MacDonald, John W. F., Brighton, assignor to Parks-Cramer Company, Boston, Mass. Protective device for commercial oil heating systems. 1,942,436; Jan. 9.
MacElhone Methods, Inc. (See Jones, David J., assignor.)
Macey Company, The. (See Tobey, Fred W., assignor.)
MacFarland, Alice, et al. (See Quinn, John B., assignor.)
MacFarland, Wendell S., et al. (See Quinn, John B., assignor.)
MacKenzie, Russell E., assignor to Detroit Lubricator Company, Detroit, Mich. Carburetor. 1,943,082; Jan. 9.
MacLennan, John, assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Forming brake drums. 1,943,224; Jan. 9.
MacMullin, Robert B., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Production of water soluble metal carbamates. 1,942,610; Jan. 9.
MacPherson, Hugh D., West New Brighton, assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Telephone system. 1,943,130; Jan. 9.
Madden, William J., Lansdowne, Pa. Portable air cooling apparatus. 1,943,127; Jan. 9.
Madden, William J., Lansdowne, Pa. Portable air cooling apparatus. 1,943,128; Jan. 9.
Magid, Harry M., Chicago, Ill. Frame. 1,942,437; Jan. 9.
Mahr Manufacturing Company. (See Nordenson, Arnold J., assignor.)
Malcom, Robert. (See Sachs, Henry M. E., assignor.)
Mallory, P. R., & Co. (See Lear, W. P., and Nulsen, assignors.)
Mallory, P. R., & Co. (See Mitchell, Donald H., assignor.)
Mangham, Leonard, Masterton, and O. B. Cottrell, Wellington, New Zealand. Ticket issuing and change giving machine. 1,943,025; Jan. 9.
Mann, Ralph J. (See Ellis, G. H., and Mann.)
Manning, Paul D. V. (See Peebles, D. D., Manning, and Potbury.)
Manson Chemical Company. (See Manson, George J., assignor.)
Manson, George J., Hawkesbury, Ontario, Canada, assignor to Manson Chemical Company. Paper product. 1,942,438; Jan. 9.
Margon Corporation. (See Grubman, Leo J., assignor.)
Marien, Charles A., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston packing ring. 1,942,967; Jan. 9.
Marien, Melwin W., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Expander for piston rings. 1,942,968; Jan. 9.
Marlar, William E., Phoenix, Ariz. Shoulder brace. 1,942,482; Jan. 9.
Marrison, Warren A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phase shifting device. 1,942,483; Jan. 9.
Marsh, Jas. P., Corporation. (See Beggs, Paul W., assignor.)
Marsteller, Lester O., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Molded decorative article. 1,943,131; Jan. 9.
Martin, Jesse C., jr., Sausalito, Calif., assignor to Walworth Patents Inc., Boston, Mass. Plug cock and lubricating means therefor. Re19,041; Jan. 9.
Martin-Parry Corporation. (See Cosgrove, Allen R., assignor.)
Martin, William A., Fort Worth, assignor of one-half to H. E. Vaughan, Dallas, Tex. Cotton picker. 1,942,969; Jan. 9.
Mason, Arnold A. and R. F., Lake View, Iowa. Child's seat for barber chair. 1,942,717; Jan. 9.
Mason, Russell F. (See Mason, Arnold A. and R. F.)
Mastenbrook, Henry J., Cleveland Heights, assignor to The Swartwout Company, Cleveland, Ohio. Controlling fluid flow. 1,943,241; Jan. 9.
Mathews, John T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating mounting for anode grids. 1,943,242; Jan. 9.
Mathieson Alkali Works, Inc., The. (See MacMullin, Robert B., assignor.)
Mathieu, Gaston A., London, England, assignor to Radio Corporation of America. Radiosignalling system. 1,942,561; Jan. 9.
Matthews, Louis L., assignor to C. B. and J. W. Maxson, Westerly, R. I. Paper-sorting machine. 1,942,870; Jan. 9.
Maul, Henry C., assignor to Detroit-Michigan Stove Company, Detroit, Mich. Incinerator. 1,943,132; Jan. 9.
Maxson, Charles B., et al. (See Matthews, Louis L., assignor.)
Maxson, Julian W., et al. (See Matthews, Louis L., assignor.)
May, Newton E., assignor to National Syndicates Incorporated, South Bend, Ind. Combined vending and weighing machine casing. Des. 91,326; Jan. 9.
Mayer, Frank J., Pittsburgh, Pa. Mechanical toy. 1,942,514; Jan. 9.
Mayle, Louis A., Fremont, Ohio. Die placing and shifting. 1,943,133; Jan. 9.
McCandless, George F. (See Robertson, James A. and D., assignors.)
McCarty, Pearl S. (See Sands, Jesse L., assignor.)
McCormick, Elmer, Waterloo, and L. A. Dalley, Cedar Falls, assignors to John Deere Tractor Company, Waterloo, Iowa. Tractor. 1,942,655; Jan. 9.
McCreary, Miller A., and W. B. Porter, assignors to The Hegeler Zinc Company, Danville, Ill. Mold for casting zinc slabs. 1,943,026; Jan. 9.
McDonald, James, Weehawken, N. J., and G. B. Dahl, Richmond Hill, assignors to Todd Dry Dock Engineering & Repair Corporation, New York, N. Y. Air register. 1,943,083; Jan. 9.
McDonald, John A., assignor to Northwest Lead Co., Seattle, Wash. Glazing bar. 1,942,871; Jan. 9.
McElroy, Roy H. (See Langenkamp, A. G., and McElroy.)
McGee, Frank R., Steubenville, Ohio. Hot blast stove. 1,942,762; Jan. 9.
McIlvried, Edwin J., Akron, and J. C. Bittman, assignors to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Servo-motor. 1,943,029; Jan. 9.
McIntyre, Harold W., Sweetwater, Tex. Toothbrush. 1,943,225; Jan. 9.
McKee, Ralph H., New York, N. Y. Propagation of trees from cuttings. 1,943,030; Jan. 9.
McKesson, Albert, Chicago, Ill. Take-up device for flexible conductors. 1,943,134; Jan. 9.
McKnight, Edgar W. (See Potter, F. M., and McKnight.)
McKnight, Edgar W., Bayonne, N. J., assignor to General Cable Corporation, New York, N. Y. Electrical cable and manufacture. 1,943,086; Jan. 9.
McLeod, Albert E., Kenton, assignor to The M-O Valve Company Limited, London, England. Electric discharge device. 1,942,824; Jan. 9.
McLeod, Clifford J., Quincy, Mass. Toy. 1,943,129; Jan. 9

McMaster, Donald, assignor to Eastman Kodak Company, Rochester, N. Y. Film magazine construction. 1,942,869; Jan. 9.
McNeil, Claude P., Whiting, Ind., assignor to The Standard Oil Company, Chicago, Ill. Asphalt from blown petroleum residuums. 1,942,636; Jan. 9.
McNulty, George M. (See Adams, E. W., and McNulty.)
McPherson, Harry L., Memphis, Tenn. Cylinder head. 1,942,439; Jan. 9.
McWhirter, Earl J., Seattle, Wash. Toothbrush. 1,942,931; Jan. 9.
Mead Corporation, The. (See Traquair, J., and Rawling, assignors.)
Meissner, Josef, Burbach, Germany. Continuous production of nitropentaerythrite, tetranitromethylaniline, trinitroresorcine, and similar nitrocompounds. 1,943,031; Jan. 9.
Menshon, William R., Roselle Park, N. J., assignor to The Barrett Company, New York, N. Y. Marking felt and the resultant product. 1,942,763; Jan. 9.
Merk, Lawrence A., Pittsburgh, assignor to Railway Maintenance Corporation, Aspinwall, Pa. Lubricator. 1,942,484; Jan. 9.
Merrow, Joseph M., assignor to The Merrow Machine Company, Hartford, Conn. Lubricating means. 1,943,243; Jan. 9.
Merrow Machine Company, The. (See Merrow, Joseph M., assignor.)
Methlin, Nicolas E., assignor to Schneider & Cie, Paris, France. Metal drawing press. 1,943,032; Jan. 9.
Metzger, Floyd J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Purification of gases. 1,942,485; Jan. 9.
Meunier, Leon F., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Control apparatus for power machines. 1,942,825; Jan. 9.
Meyer, Andre J., assignor to Continental Motors Corporation, Detroit, Mich. Internal combustion engine. 1,942,657; Jan. 9.
Meyer, John F. (See Neumann, Victor, assignor.)
Meyer, John F., Pasadena, Calif. Amusement machine. 1,942,718; Jan. 9.
Meyercord, George R. (See Basquin, O. H., Harazin, and Gerlach, assignors.)
Meyers, Charles W., Cleveland Heights, Ohio. Truck. 1,942,562; Jan. 9.
Micro Corporation, The. (See Criner, Harry E., assignor.)
Midby, Gilbert, Whitefish, Mont. Building material. 1,943,033; Jan. 9.
Mid-Continent Petroleum Corporation. (See Bennett, H. T., and Story, assignors.)
Mid-West Forging Company. (See Hench, Jay L., assignor.)
Mihalek, Emery, assignor to O. D. Jennings & Company, Chicago, Ill. Vending machine. 1,942,440; Jan. 9.
Mikamo, Yoshiharu, and I. Koda, Watsonville, Calif. Toy. 1,942,719; Jan. 9.
Miller, Charles, Long Island City, N. Y. Shoe and retaining means therefor. 1,942,486; Jan. 9.
Miller, Herman, et al. (See Quinn, John B., assignor.)
Miller, John R., assignor to T. R. Miller Mill Company (Incorporated), Brewton, Ala. Box construction. 1,942,970; Jan. 9.
Miller, Lewis J., Syracuse, N. Y., assignor of one-third to G. F. Wiley, Faucet. 1,943,276; Jan. 9.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Process and apparatus for cooling and granulating resin. 1,942,764; Jan. 9.
Miller, T. R., Mill Company, (Incorporated). (See Miller, John R., assignor.)
Mills, Lindley E., assignor to The Dow Chemical Company, Midland, Mich. Separation of ortho- and parahalobenzoic acids. 1,942,826; Jan. 9.
Mills, Lindley E., and B. L. Fayerweather, assignors to The Dow Chemical Company, Midland, Mich. Tertiary alkyl substituted ortho-dihydroxy benzenes. 1,942,827; Jan. 9.
Miner, W. H., Inc., et al. (See Sproul, Donald F., assignor.)
Minshall, Robert J. (See Monteith, C. N., and Minshall.)
Mitchell, Courtney N., Cleveland, Ohio. Hydraulic shock absorber. 1,942,658; Jan. 9.
Mitchell, Donald H., Chicago, Ill., assignor to P. R. Mallory & Co., Incorporated, Indianapolis, Ind. Device for changing direct current potentials to alternating current potentials. 1,943,183; Jan. 9.
Mitchell, Doren. (See Bjornson, B. G., and Mitchell.)
Mitchell, John E., Dallas, Tex. Method of and apparatus for drying cotton. 1,942,868; Jan. 9.
Mize, Isaac T., Akron, Ohio. Door controlling mechanism. 1,942,720; Jan. 9.
Moffitt, Lucian Q., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Flexible connection. 1,942,721; Jan. 9.
Mohler, Francis, Schenectady, N. Y., assignor to General Electric Company, Control system. 1,943,084; Jan. 9.
Monitor Controller Company. (See Neville, William H., assignor.)
Monteith, Charles N., and R. J. Minshall, assignors to Boeing Airplane Company, Seattle, Wash. Mail plane. Des. 91,327; Jan. 9.
Mood, Homer W., assignor to J. and G. Hicks, Paris, Ill. Slicing machine. 1,942,563; Jan. 9.
Morehead, Harry F., Alameda, Calif. Loose leaf binder. 1,942,564; Jan. 9.
Morey, Lloyd W. (See Buck, E. A., and Morey.)
Morgan, Porter S., Darien, Conn., assignor to J. B. Russell, New York, N. Y., J. B. Russell, jr., and J. E. Russell, also known as J. B. Russell, executors of said J. B. Russell, deceased. Pump. 1,942,441; Jan. 9.
Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Thermostatic pilot burner. 1,943,135; Jan. 9.
Morse, Melvin L., Wellesley, assignor, by mesne assignments, to E. H. Angier, Framingham, Mass., trustee. Concrete construction. 1,942,971; Jan. 9.
Moseley, Tomlinson I., assignor to United States Appliance Corporation, San Francisco, Calif. Hair waving apparatus. 1,942,972; Jan. 9.
Moser, Helen H., Rochester, N. Y. Guide and take-up for electric cords. 1,943,136; Jan. 9.
Mosfelt, Harold T., and H. Schagerholm, assignors to Ross J. Beatty, Chicago, Ill. Manifolding apparatus. 1,942,722; Jan. 9.
Motsinger, Armand V., Otter Point, Md. Gas mask head harness. 1,942,442; Jan. 9.
Mott, Lee F., Yankton, S. Dak. Brooder. 1,942,765; Jan. 9.
Mount Vernon Car Manufacturing Co. (See Collison, Thomas A., assignor.)
Muenchen, Peter J., Los Angeles, Calif. Boot tree. 1,943,244; Jan. 9.
Mullen, Edwin J., New Rochelle, assignor to General Chemical Company, New York, N. Y. Cooling and purifying burner gases. 1,943,137; Jan. 9.
Müller, Karl, Stuttgart, and E. Hutzenlaub, Stuttgart-Zuffenhausen, assignors to Firma Paul Lechler, Stuttgart, Germany. Coating masonry. 1,943,085; Jan. 9.
Multicycal Pump & Engine Corporation. (See Hutchison, Miller R., jr., assignor.)
Munday, John C., New York, N. Y. Larvicide and making the same. 1,942,532; Jan. 9.
Munday, Richard B., Oakwood, assignor, by mesne assignments, to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Indicating the open and closed positions of the discharge means of a liquid measure. 1,943,138; Jan. 9.
Munroe, Treadway B., and E. C. Lathrop, assignors to The Celotex Company, Chicago, Ill. Composite panel and producing the same. 1,942,723; Jan. 9.
Murphy, Charles P., Ardmore, Pa. Nail clipper sharpener. 1,942,565; Jan. 9.
Murphy, Richard C. (See de Giers, Clarence A., assignor.)
Murray, Alexander, assignor to Eastman Kodak Company, Rochester, N. Y. Developing gelatin reliefs and making metal casts therefrom. 1,942,872; Jan. 9.
Myers, F. E., and Bro. Company, The. (See Myers, Philip A., assignor.)
Myers, Philip A., assignor to The F. E. Myers and Bro. Company, Ashland, Ohio. Power head for a pump. 1,942,611; Jan. 9.
Myers, Philip A., assignor to The F. E. Myers and Bro. Company, Ashland, Ohio. Double acting pump cylinder. 1,943,034; Jan. 9.
Myers, Philip A., assignor to The F. E. Myers and Bro. Company, Ashland, Ohio. Power head for a pump. 1,943,139; Jan. 9.
Naeder, Henry, assignor of one-half to E. W. Reitermann, St. Louis, Mo. Brake mechanism. 1,943,184; Jan. 9.
Naher, Frederick C., Scotia, N. Y. Tube expander. 1,942,612; Jan. 9.
Narrow, Anton H., Memphis, Tenn. Work positioning means. 1,942,873; Jan. 9.
Nash, Clarence A., North Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y. Molded article. 1,942,874; Jan. 9.
National Adhesives Corporation. (See Fuller, Arthur D., assignor.)
National Aniline & Chemical Co. Inc. (See Kranz, Frederick H., assignor.)
National Electric Products Corporation. (See Clayton, Martin M., assignor.)
National Malleable and Steel Castings Company. (See Brooks, C. K., and Schmidt, assignors.)
National Malleable & Steel Castings Company. (See Spence, Hubert L., assignor.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
National-Standard Company. (See Lerch, William G., assignor.)
National Syndicates Incorporated. (See May, Newton E., assignor.)
National Tube Company. (See Dunn, J. J., and Patterson, assignors.)
Naylor, Carl G., assignor to Naylor Pipe Company, Chicago, Ill. Producing tubing or pipe. 1,943,035; Jan. 9.
Naylor Pipe Company. (See Naylor, Carl G., assignor.)
Neely, Roy M., Wilkinsburg, Pa., assignor to The American Steel and Wire Company of New Jersey. Support for concrete reenforcements. 1,942,566; Jan. 9.
Nelson, Charles M. H., Los Angeles, Calif. Luminescent tube electrode receptacle. 1,942,724; Jan. 9.
Nelson, Victor E., assignor to Universal Oil-Seal Company, Pontiac, Mich. Dustguard. 1,942,567; Jan. 9.
Nelson, William L., assignor to Rock-Ola Mfg. Co., Chicago, Ill. Game device. 1,942,898; Jan. 9.
Neshit, Hal B., Hood River, Oreg. Shoe polishing rack. 1,942,725; Jan. 9.
Neumann, Victor, Los Angeles, assignor to John F. Meyer, Pasadena, Calif. Check controlled switch mechanism. 1,942,443; Jan. 9.

Neville, William H., Birmingham, Ala., assignor to Monitor Controller Company, Baltimore, Md. Electric motor control system. 1,942,185; Jan. 9.
Newquist, Frederick, Essex, Iowa. Display rack for magazines and the like. 1,942,726; Jan. 9.
Nicholas, James S., Akron, Ohio. Game apparatus. 1,942,932; Jan. 9.
Niedecken, Edward F., Milwaukee, Wis. Mixing valve. 1,943,140; Jan. 9.
Nisbet, Theodore B., Irvington-on-Hudson, assignor to Edward T. Condon, New York, N. Y. Windshield support. Re19,044; Jan. 9.
Noblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)
Nordenson, Arnold J., assignor to Mahr Manufacturing Company, Minneapolis, Minn. Forging furnace. 1,942,515; Jan. 9.
Norelius, Carl E. (See Davis, W. F., and Norelius.)
Norman, Irene W., New York, N. Y. Mounting for jewels or similar article. Des. 91,328; Jan. 9.
Noyes, Bradford, jr., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer for measuring temperature of the skin. 1,942,516; Jan. 9.
Northern Equipment Company. (See Hunter, W. L., and Weining, assignors.)
Nofthern Equipment Company. (See Hunter, W. L., and Whitley, assignors.)
Northwest Lead Co. (See McDonald, John A., assignor.)
Noyes, Bradford, jr., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 1,942,517; Jan. 9.
Nulsen, Marvin E. (See Lear, W. P., and Nulsen.)
Nutbrown, Thomas M., Limited. (See Rathmill, Joseph, assignor.)
Nystrom, Martin, Chicago, Ill., assignor to United Research Corporation, Long Island City, N. Y. Phonograph. 1,942,613; Jan. 9.
Oakes, William C., Arlington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,942,487; Jan. 9.
O'Banion, John W., Yuba City, Calif. Surgical instrument. 1,942,766; Jan. 9.
Och, Henry G., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave filter. 1,942,488; Jan. 9.
O'Connor, Frank J., Dwight, Ill. Vehicle top sign. 1,942,444; Jan. 9.
O'Connor, Thomas. (See Orth, W. G., and O'Connor.)
Oeffinger, Edmund F. (See Dietz, J. B., and Oeffinger.)
O'Farrell, Gerald A., Oakmont, Pa. Draftsman's table. 1,942,727; Jan. 9.
O'Hagan, Bernard E., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 1,942,614; Jan. 9.
Ohio Power Shovel Company, The. (See Haines, Homer B., assignor.)
Ohmer Fare Register Company. (See Ortb, W. G., and O'Connor, assignors.)
Oilgear Company, The. (See Douglas, James K., assignor.)
Okuma, Yeiichi, Fujitsuka-Cho, Higashi-Kur, Nagoya-Shie, Aichi-Ken, Japan. Spindle for net making machines. 1,943,226; Jan. 9.
Oldham, John M., assignor to L. A. Young, Detroit, Mich. Making shafts for golf clubs and the like. 1,942,445; Jan. 9.
Olson, John, administrator. (See Hentschel, Ernest R., assignor.)
Oltarsh, J. (See Willheim, William, assignor.)
Oman, Erik, Stocksund, and S. H. Ledin, Stockholm, Sweden. Distilling nonmiscible substances in columns. 1,942,767; Jan. 9.
Omsted, Kaare. (See Thompson, A. R., and Omsted.)
O'Neil, Daniel J. (See Gordon, W. A., and O'Neil.)
O'Neil, James R., San Francisco, Calif. Spinning rope. 1,942,768; Jan. 9.
Open Hearth Combustion Company. (See Boynton, Arthur J., assignor.)
Orchard, William J., Maplewood, assignor to Wallace & Tiernan Company, Inc., Belleville, N. J. Diffuser. 1,942,659; Jan. 9.
O'Reilly, John J., Woodside, Long Island, N. Y. Concrete, masonry, and steel construction. 1,943,036; Jan. 9.
Orth, William G., and T. O'Connor, assignors to Ohmer Fare Register Company, Dayton, Ohio. Lock for register flash mechanism. 1,942,615; Jan. 9.
Orthner, Ludwig. (See Zaucker, E., Orthner, and Bogemann.)
Osman, Ralph T., assignor to Koehring Company, Milwaukee, Wis. Traction belt for tractors. 1,943,141; Jan. 9.
Ottenstroer, Louis, Newark, N. J. Toothbrush. 1,942,933; Jan. 9.
Otto, Albert T., & Sons. (See ter Meer, Gustav, assignor.)
Overbey, Floyd M., Manteno, Ill. Folding chair. 1,943,037; Jan. 9.
Overseas Machinery Company Proprietary Limited. (See Wakefield, William, assignor.)
Pacific Machinery Company. (See Thompson, A. R., and Omsted, assignors.)
Packard, Horace N., assignor to The Cambridge Instrument Company, Inc., Ossining, N. Y. Pyrometer. 1,942,519; Jan. 9.
Painter, Carl W., Anderson, Ind. Carbureting means. 1,942,875; Jan. 9.
Pan-Ross Laboratories, Inc. (See Parsons, John, assignor.)
Paramount Textile Machinery Co. (See Prosser, T. W., and Wahlback, assignors.)
Parker, Marshall, assignor of one-half to Herbert S. Walker, South Gate, Calif. Pressure seal for shafts. 1,943,227; Jan. 9.
Parkersburg Rig & Reel Company, The. (See Schwemlein, William, assignor.)
Parkes, Bertrand A., Philadelphia, Pa. Drying machine. 1,942,828; Jan. 9.
Parks-Cramer Company. (See MacDonald, John W. F., assignor.)
Parsons, John, Montclair, N. J., assignor to Pan-Ross Laboratories, Inc., New York, N. Y. Self-lighting cigarette. 1,942,899; Jan. 9.
Pasternack, Richard, Brooklyn, and W. R. Giles, Richmond Hill, assignors to Charles Pfizer & Company, Brooklyn, N. Y. Preparation of gluconic acid and its lactones. 1,942,660; Jan. 9.
Patco, Inc. (See de Ybarrondo, Vincent C., assignor.)
Patent and Licensing Corporation, The. (See Rabr, Frederic H., assignor.)
Patterson, Peter C. (See Dunn, J. J., and Patterson.)
Paulus, William, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner arm. 1,942,661; Jan. 9.
Pawling, Henry J., assignor to Salem Glass Works, Salem, N. J. Bottle. 1,942,568; Jan. 9.
Payne, Ernest E. M., Narborough, near Leicester, England. Treatment of wood, fiber board, wood pulp, wood fiber, and the like. 1,942,677; Jan. 9.
Pearson, Niels I., Chester, Conn. Roof bracket. 1,943,228; Jan. 9.
Peebles, David D., Eureka, P. D. V. Manning, Berkeley Woods, and A. H. Pothury, Berkeley, Calif. Fish cooking apparatus. 1,942,830; Jan. 9.
Peffer, Harry C., and P. W. Jones, assignors to Rostone, Incorporated, La Fayette, Ind. Fly ash structural material. 1,942,769; Jan. 9.
Peffer, Harry C., and P. W. Jones, assignors to Rostone, Incorporated, La Fayette, Ind. Fly ash structural material. 1,942,770; Jan. 9.
Penn Electric Switch Co. (See Henning, Malcolm E., assignor.)
Pennsylvania Rubber Company. (See Aultman, P. M., and Bowers, assignors.)
Pentz, Albert D., New York, N. Y., assignor to Pentz Motor Brake Corporation, New Brighton, N. Y. Hose for vehicle brakes. 1,942,829; Jan. 9.
Pentz Motor Brake Corporation. (See Pentz, Albert D., assignor.)
Perkins, Albert G., Buffalo, N. Y. Spraying apparatus. 1,942,876; Jan. 9.
Perlstein, Morris M., Chicago, Ill. Cloth clamp. 1,942,728; Jan. 9.
Perry, Sidney J., Spokane, Wash. Heating system. 1,942,831; Jan. 9.
Perser Corporation, The. (See Draper, Ernest E., assignor.)
Peterkin, Albert G., jr., Bryn Mawr, assignor to The Atlantic Refining Company, Philadelphia, Pa. Fractional distillation. 1,942,446; Jan. 9.
Peters, Elmer P., Richmond Hills, N. Y., assignor to Kent Machine Works Inc. Roller mill adjusting device. 1,943,142; Jan. 9.
Peters, Frederick W., assignor to The Al-Metal Universal Joint Company, Cleveland, Ohio. Flexible connection. 1,942,973; Jan. 9.
Peters, Robert H., Buffalo, N. Y. Deodorant attachment for cooking utensils. 1,942,900; Jan. 9.
Petersen, Edgar G., assignor to Pines Winterfront Company, Chicago, Ill. Vehicle-engine radiator shutter. 1,943,245; Jan. 9.
Peterson, Ove, Copenhagen, Denmark. Double-acting internal-combustion engine. 1,943,143; Jan. 9.
Petroleum Rectifying Company. (See Lawrason, Levering, assignor.)
Petschenig, Karl, Vienna, Austria, assignor to the firm Actiengesellschaft C. P. Goerz Optische, Anstalt Actiova Spolecnost K. P. Goers Opticky Ustav, Bratislava, Czechoslovakia. Apparatus for mechanically determining the algebraic sum of angles of rotation and of angular speeds of shafts and for transmitting such sums to other apparatus. 1,943,229; Jan. 9.
Petzold, Adolf. (See Laska, L., Zitscher, Christ, and Petzold.)
Pfefferle, George H., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Gasket. 1,942,480; Jan. 9.
Pfizer, Charles, & Company. (See Pasternack, R., and Giles, assignors.)
Pharis Tire and Rubber Company, The. (See Jones, John F., assignor.)
Phillips, John H., Pittsburgh, Pa. Collapsible container. 1,942,771; Jan. 9.
Piazze, Thomas E., Brooklyn, assignor to Technidyne Corporation, New York, N. Y. Differentiation of speeds. 1,943,038; Jan. 9.
Piazzoli, Louis P., jr., assignor to Capstan Glass Company, Connellsville, Pa. Mold transferring mechanism. 1,942,832; Jan. 9.
Pines Winterfront Company. (See Petersen, Edgar G., assignor.)
Pittsburgh Steel Company. (See Protin, Edward J., assignor.)

Place, Fred E., Peekskill, N. Y. Eyeshade. 1,943,277; Jan. 9.
Pointon, John E., and W. H. Beanes, Westwood Works, Peterborough, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Baking oven. 1,942,974; Jan. 9.
Polgar, William, New York, N. Y. Plant pot and support. 1,942,975; Jan. 9.
Popkess, William R., Sabetha, Kans. Body support. 1,942,976; Jan. 9.
Porter, William B. (See McCreary, M. A., and Porter.)
Potbury, Alfred H. (See Peebles, D. D., Manning, and Potbury.)
Potter, Frank M., Rome, N. Y., and E. W. McKnight, Bayonne, N. J., assignors to General Cable Corporation, New York, N. Y. Electrical cable and method of manufacture. 1,943,087; Jan. 9.
Powell, Thomas B. (See Crawford, Charles J., assignor.)
Power, James R., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Rectifier system. 1,943,088; Jan. 9.
Prescott, Carlton C., Menlo Park, N. J. Tool. 1,942,447; Jan. 9.
Prochaska, Carroll W., Mount Vernon, N. Y., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston clamp. 1,942,569; Jan. 9.
Progressive Service Company. (See Deubel, Carl G., assignor.)
Prosser, Thomas W., and J. H. Wahlbeck, Kankakee, assignors to Paramount Textile Machinery Co., Chicago, Ill. Hosiery drying form. 1,942,448; Jan. 9.
Prosser, Thomas W., and J. H. Wahlbeck, Kankakee, assignors to Paramount Textile Machinery Co., Chicago, Ill. Hosiery drying apparatus. 1,942,729; Jan. 9.
Protin, Edward J., Charlerol, assignor, by mesne assignments, to Pittsburgh Steel Company, Pittsburgh, Pa. Pipe joint. 1,942,518; Jan. 9.
Prouty, Willis C., Hermosa Beach, assignor, by mesne assignments, to Proutyline Products Co., Manhattan Beach, Calif. Luminous display device. 1,942,877; Jan. 9.
Proutyline Products Co. (See Prouty, Willis O., assignor.)
Pruzan, Barney. (See Bebel, A., and Pruzan.)
Pungs, Wilhelm, Ludwigshafen-on-the-Rhine, and M. Jahrstorfer, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of high-quality wax-like substances. 1,942,833; Jan. 9.
Purdue Research Foundation. (See Brewer, P. H., and Kraybill, assignors.)
Quigley, Hugh T., Philadelphia, Pa. Ink double-rolling control. 1,942,490; Jan. 9.
Quinn, John B., assignor, by mesne assignments, of one half to W. S. MacFarland, A. MacFarland, and E. L. Tompkins, Los Angeles, and one half to Herman Miller, South Pasadena, Calif. Fire extinguisher. 1,943,186; Jan. 9.
Rabezzana, Hector, assignor to A C Spark Plug Company, Flint, Mich. Spark plug. 1,943,028; Jan. 9.
Rabezzana, Hector, Flint, and O. S. Duffendack, Ann Arbor, Mich., assignors to A C Spark Plug Company, Flint, Mich. Electron emitting element. 1,943,027; Jan. 9.
Radio Corporation of America. (See Gaubert, John Q., assignor.)
Radio Corporation of America. (See La Rue, William D., assignor.)
Radio Corporation of America. (See Mathieu, Gaston A., assignor.)
Radio Corporation of America. (See Shapiro, Lazarus, assignor.)
Radio Corporation of America. (See Summers, Llewelyn L. B., assignor.)
Radio Inventions, Inc. (See Hogan, J. V. L., and Donle, assignors.)
Rahm, Harold R., Colorado Springs, Colo. Figure wheeled toy. 1,942,772; Jan. 9.
Rabr, Frederic H., Brookline, assignor to The Patent and Licensing Corporation, Boston, Mass. Siding material. 1,942,449; Jan. 9.
Railley, William, Roselle, N. J. Quick detachable mount for motors. 1,942,834; Jan. 9.
Railway Maintenance Corporation. (See Merk, Lawrence A., assignor.)
Ramsey Accessories Manufacturing Corporation. (See Frank, William E., assignor.)
Ramsey Accessories Manufacturing Corporation. (See Marien, Charles A., assignor.)
Ramsey Accessories Manufacturing Corporation. (See Prochaska, Carroll W., assignor.)
Randolph, Dale N., Pittsburgh, assignor to Wm. B. Scaife & Sons Company, Oakmont, Pa. Proportioning and feeding device. 1,943,039; Jan. 9.
Randolph, Wendell G., assignor to The Egyptian Lacquer Manufacturing Company, New York, N. Y. Paint and pigment therefor. 1,942,491; Jan. 9.
Rathmill, Joseph, Warrington, assignor of one-half to Thomas M. Nuthbrown, Limited, Blackpool, England. Device for subdividing vegetables and the like materials. 1,942,773; Jan. 9.
Ratigan, James P., Los Angeles, Calif. Tongs. 1,942,492; Jan. 9.
Rawling, Francis G. (See Traquair, J., and Rawling.)
Ray-Glo Corporation. (See Cuyler, Robert F., assignor.)
Redman, Gladys B., Greenwich, Conn. One piece sport dress or similar article. Des. 91,329; Jan. 9.
Redmond, James W., Dayton, Ohio. Time controlled electric switch. 1,943,040; Jan. 9.
Reed, Carl S., assignor to The Lummus Company, New York, N. Y. Single pass heat exchanger. 1,942,878; Jan. 9.
Reed, Melvin C., Rutherford, N. J., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Method and apparatus for removing liquids and gases from manholes, pits, and the like. 1,942,570; Jan. 9.
Reeve, Lewis, assignor to A. O. Smith Corporation, Milwaukee, Wis. Hygrometer. 1,942,934; Jan. 9.
Reitermann, Emil W. (See Naeder, Henry, assignor.)
Reith, George C., Revere, Mass. Cold handle. 1,942,493; Jan. 9.
Remington Rand Inc. (See Going, George G., assignor.)
Remington Typewriter Company. (See Burns, Cloyd E., assignor.)
Renfer, John E., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Rock drill. 1,942,730; Jan. 9.
Rennick, Edwin W. H., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Lubricator. 1,942,450; Jan. 9.
Reutter, Frederick R., assignor to Scovill Manufacturing Company, Waterbury, Conn. Powder box. 1,942,935; Jan. 9.
Revere Copper & Brass Incorporated. (See Andrews, Paul B., assignor.)
Re Vley, David G., and J. E. Hirsh, Los Angeles, Calif. Blowgun. 1,943,187; Jan. 9.
Reynolds, Elmer D., assignor to Reynolds Wire Co., Dixon, Ill. Woven wire and producing the same. 1,942,451; Jan. 9.
Reynolds, Frederick D., St. Louis, Mo. Concealed flush tank. 1,943,041; Jan. 9.
Reynolds Wire Co. (See Reynolds, Elmer D., assignor.)
Reznor, George F., assignor to Reznor Manufacturing Company, Mercer, Pa. Gas heater. 1,942,936; Jan. 9.
Reznor Manufacturing Company. (See Reznor, George F., assignor.)
Rhodes, Edmund O., Pittsburgh, Pa., assignor to The American Tar Products Company. Coking bituminous material. 1,942,978; Jan. 9.
Rhodes, Edmund O., Pittsburgh, Pa., assignor to American Tar Products Co., Inc. Coking liquid or liquefiable bituminous material. 1,942,980; Jan. 9.
Rhodes, Edmund O., E. W. Volkmann, and J. C. Fitzpatrick, Pittsburgh, Pa., assignors to American Tar Products Co., Inc. Charging apparatus for coke ovens. 1,942,979; Jan. 9.
Ricardo, Harry R., London, England. Two-stroke internal combustion engines. 1,942,571; Jan. 9.
Rich, Charles H., Woolrich, Pa. Fire fighting tool. 1,942,901; Jan. 9.
Rich, Hoomes. (See Gigi, Angelina, assignor.)
Richards, George W., Wilmington, Del. Sewer for sand. 1,943,188; Jan. 9.
Richardson, William, assignor to G. Steingruber, Huntsville, Ala. Hot plate mounting. 1,943,144; Jan. 9.
Riddle, Frank H., Detroit, Mich., assignor, by mesne assignments, to Champion Spark Plug Company, Toledo, Ohio. Refractory material and batch and making the same. 1,942,879; Jan. 9.
Riley Stoker Corporation. (See Daniels, Fred H., assignor.)
Robertson, David. (See Robertson, James A., and D.)
Robertson, Edward A., La Grange, Ill. Dowel bar cap and stop. 1,942,494; Jan. 9.
Robertson, James A., and D. Robertson, assignor of one-half to G. F. McCandless, Toronto, Ontario, Canada. Heat treating ferrous metals. 1,942,937; Jan. 9.
Robertson, Walter S., Attleboro, Mass., assignor to F. S. Land, Kansas City, Mo. Brooch. Des. 91,330; Jan. 9.
Robinson, Joseph, New York, N. Y., assignor of one-half to R. M. Wolvin, Montreal, Quebec, Canada. Automatic train pipe connecter. 1,942,938; Jan. 9.
Robinson, Joseph, New York, N. Y., assignor of one-half to R. M. Wolvin, Montreal, Quebec, Canada. Automatic train pipe coupling head. 1,942,939; Jan. 9.
Robinson, Joseph, New York, N. Y., assignor of one-half to R. M. Wolvin, Montreal, Quebec, Canada. Automatic train pipe connecter. 1,942,940; Jan. 9.
Robinson, Joseph, New York, N. Y., assignor of one-half to R. M. Wolvin, Montreal, Quebec, Canada. Automatic train pipe connecter. 1,942,941; Jan. 9.
Rockols, David C., Chicago, Ill. Game device. 1,942,880; Jan. 9.
Rock-Ola Mfg. Co. (See Nelson, William L., assignor.)
Rodger Ballast Car Company. (See Hoscelt, William J., assignor.)
Rogers, Myron C., Morrison, Ill. Dishwashing machine. 1,942,452; Jan. 9.
Rogowski, Walter, and E. Flegler, Aachen, Germany. Cathode ray oscillograph. 1,942,572; Jan. 9.
Roon, Leo, Great Neck, assignor to Roxalin Flexible Lacquer Company, Incorporated, Long Island City, N. Y. Lacquer and making the same. 1,942,902; Jan. 9.
Rosebrook, Guy L., Cranberry Lake, N. J., assignor to Standard Oil Development Company. Service station. Des. 91,332; Jan. 9.
Rosebrook, Guy L., Cranberry Lake, N. J., assignor to Standard Oil Development Company. Service station. Des. 91,333; Jan. 9.

Roseman, Leo, Newark, N. J. Sewing machine for stitching over fastener means. 1,942,903; Jan. 9.
Rosenberg, Ralph H., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Brake drum swaging machine. 1,943,089; Jan. 9.
Rosenblatt, Maurice C., Philadelphia, Pa. Acoustical treatment. 1,942,662; Jan. 9.
Rostone, Incorporated. (See Peffer, H. C., and Jones, assignors.)
Roth, August A., Baltimore, Md. Apparatus for sharpening files. 1,942,881; Jan. 9.
Roulet, Jean-Jacques, assignor to the firm Durand & Huguenin S. A., Basel, Switzerland. Printing silk with chrome dyestuffs. 1,942,774; Jan. 9.
Rourke, Alfred E., San Francisco, Calif. Beverage dispenser. Des. 91,331; Jan. 9.
Roxalin Flexible Lacquer Company. (See Roon, Leo, assignor.)
Royal Typewriter Company. (See Degener, Gustave O., assignor.)
Rubel, Charles F., assignor to Union Special Machine Company, Chicago, Ill. Suspended resilient mounting for sewing machines. 1,943,189; Jan. 9.
Ruegenberg, Gottfried, Olpe Westphalia, Germany. Producing packing strips. 1,943,145; Jan. 9.
Ruemelin, Richard, Minneapolis, Minn. Support for flexible hose. 1,942,453; Jan. 9.
Russell, John B., jr., executor, et al. (See Morgan, Porter S.)
Russell, Joseph E., executor et al. (also known as Joseph B. Russell.) (See Morgan, Porter S.)
Rust, Philip F., New Bremen, assignor of one-half to The Industrial Equipment Company, Minster, Ohio. Method of and apparatus for deodorizing and dehydrating fluids. 1,943,146; Jan. 9.
Rutenber, Edwin A., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Electrical appliance. 1,942,835; Jan. 9.
Ruud Manufacturing Company. (See Horton, Ernest J., assignor.)
Ryan, William A. (See Dickinson, Joseph R., assignor.)
Sachs, Henry M. E., South Bend, Ind., assignor of one-half to R. Malcom, Chicago, Ill. Optical lens and making same. 1,942,775; Jan. 9.
Saftien, Karl. (See Guenther, F., and Saftien.)
Sainderichin, Nicholas. (See Folliet, A., and Sainderichin.)
St. John, Stuart B., assignor to The Black Rock Manufacturing Company, Bridgeport, Conn. Rubber ring cutting machine. 1,942,986; Jan. 9.
Salem Glass Works. (See Pawling, Henry J., assignor.)
Salenius, Erik G. N., assignor to Mistress Elise S. Salenius, Stockholm, Sweden. Device for accumulating power. 1,943,090; Jan. 9.
Salenius, Misstress Elise S. (See Salenius, Erik G. N., assignor.)
Samburg, Maurice, Brooklyn, assignor to Lock Patents Holding Corporation, New York, N. Y. Lock. 1,942,454; Jan. 9.
Sandlin, James W., Humble, Tex. Valve mechanism. 1,942,616; Jan. 9.
Sands, Jesse L., New Martinsville, assignor of one-half to P. L. McCarty, Fairmont, W. Va. Battery terminal connection. 1,943,190; Jan. 9.
Sargent & Company. (See Weller, John H., assignor.)
Saunders, Walter S., assignor to The American Forging and Socket Company, Pontiac, Mich. Adjustable visor. 1,942,663; Jan. 9.
Saurbrey, Alexis, Pittsburgh, Pa. Gate construction. 1,942,617; Jan. 9.
Sawyer, Eugene, Benld, Ill. Coupling for belts or the like. 1,942,836; Jan. 9.
Sawyer Manufacturing Company. (See Brown, Clarence L., assignor.)
Scaife, Wm. B. & Sons Company. (See Randolph, Dale N., assignor.)
Schaefer, Frederic, Pittsburgh, Pa. Brake hanger. 1,942,777; Jan. 9.
Schaefer, Timothy A., Winegar, Wis. Thermostatic switch. 1,942,664; Jan. 9.
Schafer, Lewis H., Mechanicville, N. Y. Window screen for automobiles. 1,942,776; Jan. 9.
Schäffer, Adolf, Veliki-Beckerek, Jugoslavia. Pneumatic shoe. 1,942,883; Jan. 9.
Schagerholm, Harold. (See Mosfelt, H. T., and Schagerholm.)
Scheiber, Johannes, Leipzig, Germany. Castor oil derivative drying oil and producing the same. 1,942,778; Jan. 9.
Schenker, Abraham S., and H. Sheer, Brooklyn, N. Y. Doorlatch. 1,942,731; Jan. 9.
Scheuing, Georg and B. Walach, Nieder-Ingelheim-on-the-Rhine, Germany, assignors, by mesne assignments, to E. Bilhuber, Incorporated, Jersey City, N. J. Preparing disubstituted tetrazoles. 1,943,148; Jan. 9.
Schiffer, Hermann J., Dusseldorf, Germany. Alloy steel. 1,942,779; Jan. 9.
Schmals, William F., Rockville, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Collapsible tube. 1,942,942; Jan. 9.
Schmidt, Ernest H. (See Brooks, C. K., and Schmidt.)
Schmidt, Wilhelm K., Berlin, Germany. Compressor. 1,943,091; Jan. 9.
Schmiedel, Johannes, assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Manufacture of two-part boxes. 1,943,147; Jan. 9.
Schmitt, William H., St. Paul, Minn. Window bracket. 1,942,665; Jan. 9.
Schmitz, Rudolf, Herne, Germany. Electric furnace. 1,942,981; Jan. 9.
Schnabel, Charles F., Kansas City, Mo. Feed. 1,942,943; Jan. 9.
Schneider & Cie. (See Methlin, Nicolas E., assignor.)
Schneider, Emil, Philadelphia, Pa. Venting device for liquid reservoirs. 1,942,780; Jan. 9.
Schneider, Rudolf, Washington, D. C. Testing device. 1,942,982; Jan. 9.
Schneider, Willy F., assignor to "Universelle" Cigarettenmaschine-Fabrik J. C. Muller & Company, Dresden, Germany. Preparing raw tobacco for a tobacco cutting machine. 1,943,149; Jan. 9.
Schoonmaker, William H., Montclair, N. J. Collar clasp. 1,942,904; Jan. 9.
Schorling, George. (See Snyder, Louis M., assignor.)
Schubert & Salzer Maschinenfabrik Aktiengesellschaft. (See Heinitz, Woldemar, assignor.)
Schull, Felix. (See Kreuts, Willy, assignor.)
Schultheiss, William F., Huntington Park, Calif. Flush valve. 1,942,837; Jan. 9.
Schulz, Walter F. (See Kahn, J., and Schulz.)
Schwartz, Henry, assignor to Barrel Fitting and Seal Corporation of America, Chicago, Ill. Apparatus for forming bushing structures. 1,942,666; Jan. 9.
Schweig, Julius A., St. Louis, Mo. Door operating mechanism. 1,943,042; Jan. 9.
Schwemlein, William, assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Fabricated tank. 1,943,191; Jan. 9.
Scintilla Aktiengesellschaft. (See Bohli, Jakob, assignor.)
Scott, Leslie E., and E. A. Smith, San Jose, Calif. Coin controlled switch. 1,942,618; Jan. 9.
Scovill Manufacturing Company. (See Fenton, Paul E., assignor.)
Scovill Manufacturing Company. (See Reutter, Frederick R., assignor.)
Scowcroft, Jack. (See Kessler, F., Deyes, and Scowcroft.)
Seeger Refrigerator Company. (See Davis, W. F., and Norelius, assignors.)
Seibert, William L., Fort Monmouth, N. J. Electron tube circuit. 1,942,983; Jan. 9.
Sekella, Youston, assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,942,573; Jan. 9.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Semar, Louis, Anacortes, Wash. Releasable sinker. 1,943,192; Jan. 9.
Semkow, John, New York, N. Y. Bath spray device. 1,942,905; Jan. 9.
Semon, Waldo L. (See Zimmerli, W. F., and Semon.)
Semon, Waldo L., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Recovering amines and phenols from their aqueous solutions. 1,942,838; Jan. 9.
Sengpiel, William A., assignor to The Sikes Company, Philadelphia, Pa. Safety means for chairs. 1,942,781; Jan. 9.
Seyforth, Rome C., assignor to Lowell Manufacturing Company, Lowell, Mich. Sprayer. 1,943,092; Jan. 9.
Shapiro, Isadore, assignor to Athletic Shoe Company, Chicago, Ill. Athletic shoe. 1,942,574; Jan. 9.
Shapiro, Lazarus, New York, N. Y., assignor to Radio Corporation of America. Electrostatic shielding material. 1,942,575; Jan. 9.
Sharp, Clayton A. (See Junor, D., and Sharp.)
Shaver, George D., Kalamazoo, Mich., assignor to The Therminsul Corporation of America, Boston, Mass. Flexible sheet insulation and producing the same. 1,942,733; Jan. 9.
Sheal, Robert E., Cleveland, and C. N. Windecker, Painesville, Ohio. Self-unloading boat. 1,942,839; Jan. 9.
Sheer, Harry. (See Schenker, A. S., and Sheer.)
Shepard, Donald S., Goodland, Ind. Wagon end gate fastener. 1,942,732; Jan. 9.
Sheppard, Samuel E., and L. W. Eberlin, assignors to Eastman Kodak Company, Rochester, N. Y. Manufacture of films from cellulosic materials. 1,942,840; Jan. 9.
Sherman, Elroy P., assignor to The Ashtabula Corrugated Box Company, Ashtabula, Ohio. Basket cover. 1,943,093; Jan. 9.
Shimizu, Takeo, Hongo-Ku, Tokyo, Japan. Daylight screen. 1,942,841; Jan. 9.
Short, Raymond J., Nutley, assignor, by mesne assignments, to Lusteroid Container Company, Inc., Maplewood, N. J. Dispensing tube. 1,942,576; Jan. 9.
Siebenbürger, Hugo, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Sulphuric acid ester of fatty acid compounds of high molecular weight and making same. 1,942,577; Jan. 9.
Siegel, David T., Chicago, Ill. Rheostat potentiometer. 1,942,495; Jan. 9.
Siegel, David T., Chicago, Ill. Electrical resistance unit. 1,942,496; Jan. 9.
Siemens & Halske, Aktiengesellschaft. (See Fischer, Fritz, assignor.)
Siemens Elektro-Osmose, G. m. b. H. (See Jenny, Alexander, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Arni, Hans, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Fischer, Fritz, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Thierbach, Dietwald, assignor.)

Sikes Company, The. (See Sengpiel, William A., assignor.)
Simmons Company. (See Gall, John F., assignor.)
Simpson, Kenneth M., assignor to International Chromium Process Corporation, New York, N. Y. Refractory and manufacture. 1,943,263; Jan. 9.
Singer Manufacturing Company, The. (See Barron, William L., assignor.)
Sipp-Eastwood Corporation (See Klein, Frederick, assignor.)
Smellie, Donald G, Canton, Ohio, assignor to The Hoover Company. Suction cleaner agitator. 1,942,497; Jan. 9.
Smith, A. O., Corporation. (See Reeve, Lewis, assignor.)
Smith, Edward W., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Storage battery separator. 1,942,667; Jan. 9.
Smith, Edward W., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Storage battery separator. 1,942,668; Jan. 9.
Smith, Ernest A. (See Scott, L. E., and Smith.)
Smith, George J., Los Angeles, Calif. Cooling unit for mechanical refrigeration. 1,942,842; Jan. 9.
Smith, Hallam C., Larchmont, assignor to The Linde Air Products Company, New York, N. Y. Method and apparatus for dispensing gas material. 1,942,944; Jan. 9.
Smith, Henry B., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose organic ester composition containing dibutyl malate. 1,942,843; Jan. 9.
Smith, Henry B., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose organic ester composition of matter containing an ester of dibromo succinic acid. 1,942,844; Jan. 9.
Smith, Robert A., Mahwah, assignor to Smith & Serrell, Elizabeth, N. J. Flexible coupling. 1,942,782; Jan. 9.
Smith, Roy D., assignor to Bee Line Manufacturing Company, Davenport, Iowa. Vehicle hoist. 1,942,945; Jan. 9.
Smith & Serrell. (See Smith, Robert A., assignor.)
Smith, William F., Poughkeepsie, N. Y. Free wheeling transmission clutch. 1,942,669; Jan. 9.
Smysor, Mon, Cincinnati, Ohio. Burial case. 1,943,094; Jan. 9.
Snyder, Louis M., Brooklyn, N. Y., assignor, by mesne assignments, to George Schorling, Woodridge, N. J. Making manifold paper webs. 1,943,264; Jan. 9.
Society of Chemical Industry in Basle. (See Felix, Friedrich, assignor.)
Society of Chemical Industry in Basle. (See Graenacher, Charles, assignor.)
Society of Chemical Industry in Basle. (See Sievenburger, Hugo, assignor.)
Somerville, William E., Coal City, Ill. Forming and breaking head for wire rope stranders and closers. 1,942,670; Jan. 9.
Sonoco Products Company. (See Dunlap, Charles K., assignor.)
Soullié, Clément, Paris, France. Radio signaling. 1,942,884; Jan. 9.
Spadone, Charles C., Rockville Center, assignor to Spadone Machine Company, Inc., New York, N. Y. Machine for manufacturing hose. 1,942,498; Jan. 9.
Spadone Machine Company. (See Spadone, Charles C., assignor.)
Spaeth, Charles, Cleveland, Ohio. Sheet metal container. 1,942,984; Jan. 9.
Spang, Joseph P., Quincy, Mass. Machine for cubing meat. 1,942,499; Jan. 9.
Spang, Joseph P., Quincy, Mass. Machine for slitting meat, vegetables, and the like. 1,942,500; Jan. 9.
Spang, Joseph P., Quincy, Mass. Meat-slitting machine. 1,942,985; Jan. 9.
Sparling, Frank K., New Bedford, Mass. Fuel oil burner. 1,942,619; Jan. 9.
Spence, Hubert L., East Cleveland, assignor to National Malleable & Steel Castings Company, Cleveland, Ohio. Draft gear. 1,942,907; Jan. 9.
Sperry Gyroscope Company. (See Bassett, Preston R., assignor.)
Spindler, Fritz, St. Louis, Mo. Holder for shoulder straps. 1,942,734; Jan. 9.
Sprinkle, Lake H., Brooklyn, N. Y. Base plate for dentures. 1,942,455; Jan. 9.
Sproul, Donald F., Chicago, Ill., assignor of one-half to Cardwell Westinghouse Co., and one-half to W. H. Miner, Inc. Draft gear. 1,943,043; Jan. 9.
Stallings, George W., assignor to Watts Morehouse Mfg. Corporation, Jackson, Mich. Hinge and seal for trunks. 1,942,620; Jan. 9.
Standard Can & Seal Corporation. (See Tevander, Olof N., assignor.)
Standard-Knapp Corporation. (See Kimball, W. D., and Braren, assignors.)
Standard Oil Company. (See Adams, E. W., and McNulty, assignors.)
Standard Oil Company. (See Giles, Roy N., assignor.)
Standard Oil Company, The. (See McNeil, Claude P., assignor.)
Standard Oil Development Company. (See Rosebrook, Guy L., assignor.)
Standard Stoker Company, The. (See Ketchpel, Paul A., assignor.)
Standard-Trump Bros. Machine Company. (See Houseman, Harold E., assignor.)
Stark, Nathan I., Philadelphia, Pa. Bookholder. 1,942,456; Jan. 9.
Stationers Loose Leaf Co. (See Lotter, Adolph G., assignor.)
Stehlik, Rudolph F., assignor to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 1,942,671; Jan. 9.
Steingruber, George. (See Richardson, William, assignor.)
Steinmetz, Herman, Rochester, N. Y., assignor to Advance Machine Co., Chicago, Ill. Amusement device. 1,943,095; Jan. 9.
Stephan, Joseph, Union City, and P. Henckel, North Bergen, N. J. Envelope opener. 1,943,193; Jan. 9.
Stephens, Ernest F., Washington, D. C. Bottle stopper. 1,942,845; Jan. 9.
Sterling Electric Motors, Inc. (See Johnson, Carl E., assignor.)
Stewart, Albert D., St. Joseph, Mo., deceased; H. Stewart administratrix. Composition board. 1,942,946; Jan. 9.
Stewart, Albert E., assignor to Acme Knitting Machine & Needle Company, Franklin, N. H. Knitting machine. 1,943,265; Jan. 9.
Stewart, Hazel, administratrix. (See Stewart, Albert D.)
Stewart, James N., Birmingham, Ala., assignor to General Electric Company. Automatic reclosing circuit breaker system. 1,943,096; Jan. 9.
Stewart, Lester E., Albany, N. Y. Combined waste receptacle and illuminated top therefor. Des. 91,334; Jan. 9.
Stilwell, George R., Bayonne, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Light-sensitive tube. 1,942,501; Jan. 9.
Stirn, L. & E., Inc. (See Bennett, Verna L., assignor.)
Stockfleth, Berger, Niles, Mich., assignor, by mesne assignments, to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making bearing sleeves. 1,942,578; Jan. 9.
Stoico, Raffaele, Camden, N. J. Fruit and vegetable press. 1,943,150; Jan. 9.
Stone, Abraham, Brooklyn, N. Y. Collapsible wardrobe. 1,943,044; Jan. 9.
Stoner, Harry B., Aurora, Ill. Cabinet for a game table. Des. 91,335; Jan. 9.
Story, LeRoy G. (See Bennett, H. T., and Story.)
Strange, Charles H., Pottsville, Pa. Automatic stoker for coal stoves. 1,942,947; Jan. 9.
Streckfuss, Elmer G., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Meat slicer. 1,942,520; Jan. 9.
Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article working apparatus. 1,943,097; Jan. 9.
Suggs, Lee G., Seattle, Wash. Fire extinguisher. 1,942,906; Jan. 9.
Suiter, Clyde C., assignor to Tray Service Company, Dallas, Tex. Vertically slotted straw dispenser. 1,942,846; Jan. 9.
Summers, Llewelyn L. B., Whitestone, N. Y., assignor to Radio Corporation of America. Regulating system. 1,942,457; Jan. 9.
Sundstrand Machine Tool Co. (See Dumser, L. A., and Jackson, assignors.)
Superheater Company, The. (See Williams, Arthur, assignor.)
Sussman, Arthur, New York, N. Y. Pressing implement. 1,942,579; Jan. 9.
Sutherland, Angus, Vancouver, British Columbia, Canada. Milking apparatus and process. 1,942,882; Jan. 9.
Sutton, Harry G., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Valve for clothes steaming and pressing apparatus. 1,942,987; Jan. 9.
Swain, Raymond K., Kansas City, and R. C. Davis, Merriam, Kans. Liquid feeding mechanism. 1,942,908; Jan. 9.
Swann Research, Incorporated. (See Jenkins, Russell L., assignor.)
Swanson, Olof, Chicago, Ill. Lubricating device. 1,942,847; Jan. 9.
Sward, Cecil W., assignor to G. & W. Electric Specialty Co., Chicago, Ill. Pothead device. 1,943,247; Jan. 9.
Swartwout Company, The. (See Mastenbrook, Henry J., assignor.)
Swartwout Company, The. (See Swartwout, Denton K., jr., assignor.)
Swartwout, Denton K., jr., assignor to The Swartwout Company, Cleveland, Ohio. Feed water regulation. 1,943,248; Jan. 9.
Swift and Company. (See Henney, G. R., and Walter, assignors.)
Tallmadge, Webster, Montclair, N. J., assignor to Webster Tallmadge & Company Inc., New York, N. Y. Orifice disk for steam radiators. 1,942,783; Jan. 9.
Tallmadge, Webster & Company Inc. (See Tallmadge, Webster, assignor.)
Taylor, Arthur K., assignor to The United States Printing and Lithograph Co., Baltimore, Md. Sheet edge crimping apparatus. 1,942,988; Jan. 9.
Taylor, Ernest R., and C. E. Allen, assignors to Eastman Kodak Company, Rochester, N. Y. Leaching film, etc. 1,942,848; Jan. 9.
Taylor Freezer Corporation. (See Helwege, Walter R., assignor.)
Taylor Instrument Companies. (See Bolton, Harry D., assignor.)
Taylor Instrument Companies. (See Brown, H. Brainard, assignor.)

Taylor Instrument Companies. (See Noyes, Bradford, jr., assignor.)
Taylor, Robert S., and R. A. Helm, Evansville, Ind., assignors to Electrolux Servel Corporation, New York, N. Y. Secondary cooling element. 1,942,458; Jan. 9.
Taylor, William I. (See Dreyfus, H., Kinsella, Bower, and Taylor.)
Technidyne Corporation. (See Piazze, Thomas E., assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Burghardt, Ferdinand, assignor.)
Te Pas, Edmund J., Lakewood, assignor to The Cleveland Heater Company, Cleveland, Ohio. Thermostatic gas burner. 1,943,045; Jan. 9.
Ter Meer, Gustav, Munich, Germany, assignor to Albert T. Otto & Sons, New York, N. Y. Centrifugal separator. 1,943,098; Jan. 9.
Terrill, Franklin E., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Fluid pressure tool. 1,942,784; Jan. 9.
Tevander, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Bottle capping machine. 1,942,885; Jan. 9.
Texas Company, The. (See Towne, Charles C., assignor.)
Therminsul Corporation of America, The. (See Shaver, George D., assignor.)
Thierbach, Dietwald, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Wireless transmission of telegraph impulses. 1,942,580; Jan. 9.
Thomas, Edward B. (See Bader, W., and Thomas.)
Thompson, Albert B., and K. Omsted, San Jose, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Method of and apparatus for classifying fruit and vegetables. 1,943,278; Jan. 9.
Thompson, Gustavus W., Syracuse, N. Y. Golf club head. Des. 91,336; Jan. 9.
Thompson, Howard R., Des Moines, Iowa. Golf tee. 1,942,672; Jan. 9.
Thompson, James C., Perry, Iowa. Rotary registering device. 1,942,621; Jan. 9.
Thomson, George M., Caledonia, Ontario, Canada. Heat insulating product. 1,942,989; Jan. 9.
Thomson, S. H., Manufacturing Company, The. (See Hummert, Robert H., assignor.)
Thrasher, Ned L., Perrysburg, N. Y. Stepladder brace. 1,942,849; Jan. 9.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Eye testing device. 1,942,850; Jan. 9.
Timken-Detroit Axle Company, The. (See Barber, George E., assignor.)
Timken Roller Bearing Company, The. (See Weckstein, Samson M., assignor.)
Timmons, Edwin S., Chicago, Ill. Assembling device. 1,942,459; Jan. 9.
Tinsley, John S. (See Wiggam, D. R., and Tinsley.)
Tobey, Fred W., assignor to The Macey Company, Grand Rapids, Mich. Locking device. 1,943,099; Jan. 9.
Todd Drydock, Engineering & Repair Corporation. (See McDonald J., and Dahl, assignors.)
Tolman, Edgar B., jr., Chicago, Ill. Vibrating apparatus. 1,942,581; Jan. 9.
Tompkins, Edgar L., et al. (See Quinn, John B., assignor.)
Tower, William R. (See d'Este, J. N., and Tower.)
Towne, Charles C., Elizabeth, N. J., assignor to The Texas Company, New York, N. Y. Pyrolysis of hydrocarbon gases. 1,943,246; Jan. 9.
Trainer, James E., Barberton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Riveting jack. 1,942,785; Jan. 9.
Traquair, John, and F. G. Rawling, assignors, by mesne assignments, to The Mead Corporation, Dayton, Ohio. Paper manufacture. 1,942,622; Jan. 9.
Tray Service Company. (See Suiter, Clyde C., assignor.)
Treadwell, William D. (See Weber, J., von Zeerleder, and Treadwell.)
Trico Products Corporation. (See Hueber, Henry, assignor.)
Trico Products Corporation. (See Hueber, H., and Horton, assignors.)
Trico Products Corporation. (See Paulus, William, assignor.)
Tridle, Jacob C., Fresno, Calif. Combination furniture. 1,942,623; Jan. 9.
Truscon Steel Company. (See Hughes, Grover A., assignor.)
Truscon Steel Company. (See Kahn, J., and Schulz, assignors.)
Turney, Eugene T., Holmes, N. Y. Timepiece. 1,943,046; Jan. 9.
Uebler, Bruno, Berlin, Germany. Producing nitrates and recovery of nitric oxide. 1,942,886; Jan. 9.
Union Asbestos & Rubber Company. (See Gillies, William R., assignor.)
Union Special Machine Company. (See Rubel, Charles F., assignor.)
Union Switch & Signal Company, The. (See Livingston, John W., assignor.)
Union Switch & Signal Company, The. (See O'Hagan, Bernard E., assignor.)
United-Carr Fastener Corporation. (See Knutson, Carl L., assignor.)
United Drug Company. (See Coleman, Harold F., assignor.)
United Engineering and Foundry Company. (See Coryell, William C., assignor.)
United Research Corporation. (See Carpenter, Arthur W., assignor.)
United Research Corporation. (See Nystrom, Martin, assignor.)
United Shoe Machinery Corporation. (See Kershaw, John T., assignor.)
United States Appliance Corporation. (See Keele, Ralph M., assignor.)
United States Appliance Corporation. (See Moseley, Tomlinson I., assignor.)
United States Hoffman Machinery Corporation. (See Sutton, Harry G., assignor.)
U. S. Manufacturing Corporation. (See Bennett, John L., assignor.)
United States Printing and Lithograph Co. (See Taylor, Arthur K., assignor.)
Universal Oil-Seal Company. (See Nelson, Victor E., assignor.)
"Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co. (See Schmiedel, Johannes, assignor.)
"Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Company. (See Schneider, Willy F., assignor.)
Updegraff, Lee C., New York, N. Y., assignor to The Linde Air Products Company. Apparatus for dispensing gas material. 1,943,047; Jan. 9.
Upton, Charles B., Piqua, Ohio. Cooker. 1,942,624; Jan. 9.
Usrey, Frank S. (See Werhan, William H. and L. L., and Usrey.)
Vachoux, William, Geneva, Switzerland. Liquid dispensing apparatus. 1,943,194; Jan. 9.
Valiquette, William L., assignor to Harris-Seybold-Potter Company, Dayton, Ohio. Paper cutter. 1,942,521; Jan. 9.
Vanderbilt, R. T., Company. (See Alton, William H., assignor.)
VanHorn, Lee. (See Forrest, H. O., Van Horn, Keith, and Crawford.)
VanNess, Willard L., Toledo, Ohio, assignor to Corning Glass Works, Corning, N. Y. Glass working apparatus. 1,943,195; Jan. 9.
Vanni, Pier G., Milan, Italy. Piston. 1,942,887; Jan. 9.
Van Raalte Company. (See Griffs, Lawrence W., assignor.)
Van Vlaanderen Machine Company. (See Koch, William J., assignor.)
Van Vlaanderen Machine Company. (See Lane, George W., assignor.)
Vaughan, H. E. (See Martin, William A., assignor.)
Vaughn Machinery Company, The. (See McIlvried, E. J., and Bittman, assignors.)
Visking Corporation, The. (See Voss, Julius, assignor.)
Vogt, Charles H., Philadelphia, Pa. Sausage making method and apparatus. 1,942,582; Jan. 9.
Volkmann, Ernest W. (See Rhodes, E. O., Volkmann, and Fitzpatrick.)
Von Thüngen, Hubert F., assignor to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Friedrichshafen, Bodensee, Germany. Freewheel mechanism. 1,942,909; Jan. 9.
Von Zeerleder, Alfred. (See Weber, J., von Zeerleder, and Treadwell.)
Voss, Julius, Wiesbaden-Biebrich, Germany, assignor, by mesne assignments, to The Visking Corporation, Chicago, Ill. Device for spinning viscose solutions while applying long precipitating distances. 1,942,990; Jan. 9.
Wachter, Lester. (See Anthony, W. C., and Wachter.)
Wadsworth, Dwight W., and W. A. Breckon, Fennville, Mich. Packing apparatus. 1,942,460; Jan. 9.
Wagenhorst, James H., assignor, by mesne assignments, to Kelsey-Hayes Wheel Company, Detroit, Mich. Demountable wheel. 1,943,151; Jan. 9.
Wahlbeck, John H. (See Prosser, T. W., and Wahlbeck.)
Wakefield, William, Richmond, near Melbourne, assignor to Overseas Machinery Company Proprietary Limited, Melbourne, Victoria, Australia. Producing binding strips for boxes, crates, and the like. 1,942,735; Jan. 9.
Walach, Bruno. (See Scheuing, G., and Walach.)
Walker, Herbert S. (See Parker, Marshall, assignor.)
Wallace, Joseph, Brooklyn, N. Y. Fountain pen. 1,943,048; Jan. 9.
Wallace & Tiernan Products, Inc. (See Chambers, Bert C., assignor.)
Wallace & Tiernan Company. (See Orchard, William J., assignor.)
Walsh, John E., Chicago, Ill. Separable cellular carton. 1,942,910; Jan. 9.
Walsh, Lincoln, Elizabeth, assignor to Hazeltine Corporation, Jersey City, N. J. Coupling system. 1,942,786; Jan. 9.
Walter Carl Barmen, Germany. Nonreversing hand crank. 1,943,230; Jan. 9.
Walter, Charles T. (See Henney, G. R., and Walter.)
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Slicing machine. 1,942,991; Jan. 9.
Walter, Morley C., Minneapolis, Minn. Electrical marking device. 1,943,100; Jan. 9.
Walter, William H., Cynwyd, Pa. Making molds. 1,942,583; Jan. 9.

Walther, Wilhelm, Stuttgart, and H. Bischoff, Stuttgart-Botnang, assignors to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Magneto ignition apparatus. 1,943,249; Jan. 9.
Walworth Patents Inc. (See Martin, Jesse C., jr., assignor.)
Waples, Robert M. (See Hubbard, C. R., and Waples.)
Ward, Clarence F., Birmingham, Ala. Attachment for tractor cranes. 1,943,196; Jan. 9.
Waterbury Farrel Foundry & Machine Company, The. (See Candee, Zenas P., assignor.)
Watts, Harry W., Maplewood, assignor to Stewart Hartshorn Company, East Newark, N. J. Shade roller. 1,942,787; Jan. 9.
Watts Morehouse Mfg. Corporation. (See Stallings, George W., assignor.)
Weber, Julius, and A. von Zeerleder, Neuhausen, and W. D. Treadwell, Zurich, Switzerland. Electrolytic extraction of pure aluminum. 1,942,522; Jan. 9.
Weckstein, Samson M., assignor to The Timken Roller Bearing Company, Canton, Ohio. Bearing construction. 1,943,049; Jan. 9.
Weiland, John A., assignor to Weiland Packing Company, Inc., Phoenixville, Pa. Stuffing device. 1,943,197; Jan. 9.
Weiland Packing Company. (See Weiland, John A., assignor.)
Weiner, Charles, assignor to Chicago Printed String Co., Chicago, Ill. Gift wrapping ensemble. 1,942,673; Jan. 9.
Weining, Harry H. (See Hunter, W. L., and Weining.)
Weinstein, Joseph, Jamaica, N. Y. Filter. 1,942,584; Jan. 9.
Weiss, Charles R., and W. R. Bennett, Indianapolis, Ind. Method and composition for delustering fabric. 1,942,523; Jan. 9.
Weiss, Jenö, Budapest, Hungary. Irrigating. 1,943,152; Jan. 9.
Welch, Sidney A., A. F. Guyler, J. T. Ashby, and W. H. Boaler, Spondon, near Derby, England, assignors to Celanese Corporation of America. Feeding of textile materials. 1,942,524; Jan. 9.
Weller, John H., assignor to Sargent & Company, New Haven, Conn. Reenforced molded article of builders' hardware. 1,942,525; Jan. 9.
Wells, Joel C., Southbridge, Mass. Ophthalmic mounting. 1,942,851; Jan. 9.
Werhan, Lawrence L. (See Werhan, William H. and L. L., and Usrey.)
Werhan, William H., L. L. Werhan, and F. S. Usrey, Pasadena, Calif. Humidifier. 1,942,502; Jan. 9.
Wesche, Bjarne A., Cincinnati, Ohio. Single phase electric motor speed control. 1,942,585; Jan. 9.
West, Paul P., Philadelphia, Pa. Helicopter lifting screw and operating mechanism therefor. 1,942,888; Jan. 9.
Western Electric Company. (See Curtis, Austen M., assignor.)
Western Electric Company. (See Stull, John S., assignor.)
Westinghouse Air Brake Company, The. (See Whitaker, Uncas A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Austin, Walter M., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marsteller, Lester O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mathews, John T., assignor.)
Whalan, Joseph P., and L. T. Harkness, assignors to Crescent Tool Company, Jamestown, N. Y. Wire grip. 1,942,625; Jan. 9.
Wheatley, George H., Fond du Lac, Wis. Vulcanizing machine. 1,943,101; Jan. 9.
Wheeler, Thomas S., and D. Binnie, Northwich, England, assignor to Imperial Chemical Industries Ltd. Performing endothermic gas reactions. 1,942,889; Jan. 9.
Whitaker, Uncas A., Canton, Ohio, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Quick release device. 1,942,503; Jan. 9.
White, Jesse M., Philadelphia, Pa. Electrical connection. 1,942,586; Jan. 9.
White, John W., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Forming a brake drum. 1,943,198; Jan. 9.
Whitescarver, Wilmer F., Rutledge, and H. H. Hopkins, Ridley Park, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition. 1,942,736; Jan. 9.
Whitley, Kennedy B. (See Hunter, W. L., and Whitley.)
Whitman, Vernon E., Washington, D. C., assignor to Hazeltine Corporation, Jersey City, N. J. Control system. 1,942,587; Jan. 9.
Whitsett, Cameron A., Chicago, Ill. Aeroplane power plant. 1,942,674; Jan. 9.
Wicks, John, Oak Park, Ill., assignor to Automatic Electric Company, Limited, Liverpool, England. Telephone system. 1,942,462; Jan. 9.
Widmer, Stefan, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Anode grid structure. 1,943,250; Jan. 9.
Widmer, Stefan, and A. Gaudenzi, assignors to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Rectifier anode bushing. 1,943,251; Jan. 9.
Wiggam, David R., Kennett Square, Pa., and J. S. Tinsley, assignors to Hercules Powder Company, Wilmington, Del. Nitro-mixed fatty acid esters of cellulose and method for producing. 1,943,231; Jan. 9.
Wigger, Carl, and R. Bömcke, Unna, Germany. Wood chipping machine. 1,942,675; Jan. 9.
Wight, Sedgwick N., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system for railroads. 1,942,788; Jan. 9.
Wiley, George E. (See Miller, Lewis J., assignor.)
Wiley, Roy R., W. K. Wiley and H. J. Cudney, Buffalo, assignors to Flexlume Corporation, Tonawanda, N. Y. Illuminated sign. 1,942,626; Jan. 9.
Wiley, Roy R., and A. L. Brandt, sr., Buffalo, assignors to Flexlume Corporation, Tonawanda, N. Y. Electrode for luminescent tubes. 1,942,627; Jan. 9.
Wiley, Wallace K. (See Wiley, Roy R. and W. K., and Cudney.)
Willard, George T., Chicago, Ill. Railway tie plate. 1,942,464; Jan. 9.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,337; Jan. 9.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,338; Jan. 9.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,339; Jan. 9.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,340; Jan. 9.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,341; Jan. 9.
Williams, Arthur, Hammond, Ind., assignor to The Superheater Company, New York, N. Y. Superheater. 1,942,676; Jan. 9.
Williams, Djalma D., Dallas, Tex., assignor to Chicago Bridge & Iron Company, Chicago, Ill. Mokum. 1,942,463; Jan. 9.
Willoughby, John A., Washington, D. C. Radio navigating system. 1,942,526; Jan. 9.
Wilson, Chauncey G. (See Black, William C., assignor.)
Wilson, William, Erdington, Birmingham, and S. A. G. Emms, Leamington Spa, England. Apparatus for paralleling synchronous machine to maintain reciprocating engines or pumps in synchronism. 1,942,789; Jan. 9.
Windecker, Clifton N. (See Sheal, R. E., and Windecker.)
Wingfoot Corporation. (See James, Kenneth B., assignor.)
Winkler, Alfred, and M. Dünnebier, Neuwied, Germany. Method and apparatus for withdrawing lowest sheets. 1,942,527; Jan. 9.
Winn, Sidney B., Lapeer, Mich. Tractor brake system. 1,942,628; Jan. 9.
Wired Radio, Inc. (See Hentschel, Ernest R., assignor.)
Wired Radio, Inc. (See Hyland, Lawrence A., assignor.)
Wirth, Alfred, Erkelenz, Rhineland, Germany. Roller straightening machine. 1,943,153; Jan. 9.
Withington, Winthrop, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Broom rake. 1,942,629; Jan. 9.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Motion picture film magazine. 1,942,890; Jan. 9.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Motion picture film magazine. 1,942,891; Jan. 9.
Wolf Company, The. (See Keefer, Walter L., assignor.)
Wolvin, Roy M. (See Robinson, Joseph, assignor.)
Wood, Clarence G., assignor of one-half to The Columbia Axle Company, Cleveland, Ohio. Torque absorbing device. 1,942,677; Jan. 9.
Wood, Garfield A., Algonac, Mich. Gyroscope control. 1,942,737; Jan. 9.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Automatic compensator for paper rolls. 1,942,504; Jan. 9.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, Wilbert C., Toronto, Ontario, Canada. Grinding mill. 1,942,528; Jan. 9.
Woodbridge, Joseph L., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Vent plug for a container containing a liquid. 1,942,630; Jan. 9.
Woodruff, Joseph W., Elizabeth, N. J. Grease pumping apparatus. 1,943,102; Jan. 9.
Yates, Arthur T., assignor to Buffalo Forge Company, Buffalo, N. Y. Process and apparatus for bending metal bars. 1,942,992; Jan. 9.
Yohe, Merrill A., New Oxford, Pa. Decorative illuminating unit. Des. 91,342; Jan. 9.
Young, Albert A., assignor to Eastman Kodak Company, Rochester, N. Y. Nonhalation backing for photographic film. 1,942,852; Jan. 9.
Young, Harry R. (See Iliff, J. W., and Young.)
Young, L. A., Company, The. (See Link, Richard A., assignor.)
Young, Leonard A. (See Oldham, John M., assignor.)
Young, Leonard A., Detroit, Mich. Making shafts for golf clubs and the like. 1,942,465; Jan. 9.
Youngstown Sheet & Tube Company, The. (See Adams, James L., jr., assignor.)
Youngstown Sheet and Tube Company, The. (See Eurich, R. H., and Anthony, assignors.)
Zahnradfabrik Friedrichshafen Aktiengesellschaft. (See von Thüngen, Hubert F., assignor.)
Zaucker, Ewald, Cologne-Mulheim, and L. Örthner, Leverkusen-I. G. Werk, and M. Bögemann, Cologne-Mulheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Vulcanization accelerator. 1,942,790; Jan. 9.
Zeiser, Ewald, Webster Groves, Mo. Advertising sign. Des. 91,348; Jan. 9.
Zellstoffabrik Waldhof. (See Kruger, Fritz, assignor.)

Zerk, Oscar U., assignor to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,942,631; Jan. 9.
Zimmer, Raymond V., Warsaw, Ind. Attaching a fishing line to a bob. 1,942,738; Jan. 9.
Zimmerli, William F., Portage Township, and W. L. Semon, Cuyahoga Falls, Summit County, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Rubber master batch and making the same. 1,942,853; Jan. 9.
Zitscher, Arthur. (See Laska, L., Zitscher, Christ, and Petzold.)
Zucker, Harry, New York, N. Y. Electric plug receptacle. 1,943,154; Jan. 9.
Zumbro, Frank R., assignor to Frick Company, Waynesboro, Pa. Method and apparatus for producing low temperature high pressure liquid carbon dioxide. 1,943,232; Jan. 9.
Zur Löwen, Waldemar, Wuppertal-Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Nozzle head for the artificial silk stretch-spinning process. 1,942,632; Jan. 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Accelerating the saturation of fabric based sheets with bituminous material. N. P. Harshberger. 1,943,257; Jan. 9.
Acid and its lactones, Preparation of gluconic. R. Pasternack and W. R. Giles. 1,942,660; Jan. 9.
Acid compounds, Manufacture of acyl-benzoic. B. H. Jacobson. 1,942,430; Jan. 9.
Acid ester of fatty acid compounds of high molecular weight and making same, Sulphuric. H. Siebenburger. 1,942,577; Jan. 9.
Acid esters of cellulose and method for producing, Nitromixed fatty. D. R. Wiggam and J. S. Tinsley. 1,943,231; Jan. 9.
Acids, Separation of ortho- and para-halobenzoic. L. E. Mills. 1,942,826; Jan. 9.
Acoustical treatment. M. C. Rosenblatt. 1,942,662; Jan. 9.
Actuating means for machine tools. L. A. Dumser and P. S. Jackson. 1,942,414; Jan. 9.
Advertising device. R. H. Harrington. 1,943,237; Jan. 9.
Advertising sign. E. Zeiser. Des. 91,343; Jan. 9.
Aeroplane power plant. C. A. Whitsett. 1,942,674; Jan. 9.
Agglomerating, Method of and apparatus for. L. Lawrason. 1,942,480; Jan. 9.
Agitator, Suction cleaner. D. G. Smellie. 1,942,497; Jan. 9.
Agricultural implement. K. Landa. 1,942,557; Jan. 9.
Air conditioning for railway cars. W. F. Kiesel, jr. 1,943,121; Jan. 9.
Air cooling apparatus, Portable. W. J. Madden. 1,943,127–8; Jan. 9.
Air register. J. McDonald and G. B. Dahl. 1,943,083; Jan. 9.
Alkyl amino carbinols, Making. F. H. Kranz. 1,942,820; Jan. 9.
Alloy steel. H. J. Schiffler. 1,942,779; Jan. 9.
Altimeter installation. P. S. Edwards and C. D. Barbulesco. 1,942,590; Jan. 9.
Altitude, Apparatus for measuring. R. Gunn. 1,942,421; Jan. 9.
Aluminum gel, Negatively charged. P. H. Brewer and H. R. Kraybill. 1,942,799; Jan. 9.
Amines and phenols from their aqueous solutions, Recovering. W. L. Semon. 1,942,838; Jan. 9.
Amusement device. H. Steinmetz. 1,943,095; Jan. 9.
Amusement machine. J. E. Meyer. 1,942,718; Jan. 9.
Anchor, Earth. A. E. Chance. 1,942,684; Jan. 9.
Anchoring means for well casings. J. M. Hewgley. 1,942,597; Jan. 9.
Anode grid structure. S. Widmer. 1,943,250; Jan. 9.
Antiseptic and germicide. E. C. Britton. 1,942,801; Jan. 9.
Apparatus for mechanically determining the algebraic sum of angles of rotation and of angular speeds of shafts and for transmitting such sums to other apparatus. K. Petschenig. 1,943,229; Jan. 9.
Apparatus for paralleling synchronous machines to maintain reciprocating engines or pumps in synchronism. W. Wilson and A. G. Emms. 1,942,789; Jan. 9.
Article working apparatus. J. S. Stull. 1,943,097; Jan. 9.
Asphalt from blown petroleum residuums. C. P. McNeil. 1,942,656; Jan. 9.
Assembling device. E. S. Timmons. 1,942,459; Jan. 9.
Azimuth by observation on polaris, Device for determining. S. Guttormsson. 1,942,548; Jan. 9.
Azo-dyestuffs and making same. F. Felix. 1,943,170; Jan. 9.
Azodyestuff containing a nitrosogroup. L. Laska, A. Zitscher, W. Christ, and A. Petzold. 1,942,865; Jan. 9.
Backing for photographic film, Nonbalation. A. A. Young. 1,942,852; Jan. 9.
Bag and making the same, Heat-insulated paper. J. N. d'Este and W. R. Tower. 1,942,917; Jan. 9.
Balls, Producing athletic. P. M. Aultman and A. C. Bowers. 1,942,993; Jan. 9.
Bar: *See*—
  Glazing bar.
Baseball game, Miniature. H. F. Jacobs. 1,942,429; Jan. 9.
Base plate for dentures. L. H. Sprinkle. 1,942,455; Jan. 9.
Basket cover. E. P. Sherman. 1,943,093; Jan. 9.
Bath spray device. J. Semkow. 1,942,905; Jan. 9.
Battery connecter. E. Loosbrock. 1,942,435; Jan. 9.
Battery filling machine, Storage. C. D. Galloway. 1,942,641; Jan. 9.
Battery terminal connection. J. L. Sands. 1,943,190; Jan. 9.
Beam-scale, Self-justifying. F. H. Kasperson. 1,942,709; Jan. 9.
Bearing: *See*—
  Journal bearing.
Bearing construction. S. M. Weckstein. 1,943,049; Jan. 9.
Bearing sleeves, Making. B. Stockfleth. 1,942,578; Jan. 9.
Belt for tractors, Traction. R. T. Osman. 1,943,141; Jan. 9.
Benzenes, Tertiary alkyl substituted orthodihydroxy. L. E. Mills and B. L. Fayerweather. 1,942,827; Jan. 9.
Beverage dispenser. A. E. Rourke. Des. 91,331; Jan. 9.
Bill fold or receptacle. P. A. Gardner, jr. 1,942,473; Jan. 9.
Binder. W. A. Gordon and D. J. O'Neil. 1,942,547; Jan. 9.
Binder appliance, Loose leaf. A. G. Lotter. 1,942,716; Jan. 9.
Binder, Loose leaf. H. F. Morehead. 1,942,564; Jan. 9.
Binder, Post. C. H. and F. H. Fischer. 1,942,595; Jan. 9.
Binding strips for boxes, crates, and the like, Producing. W. Wakefield. 1,942,735; Jan. 9.
Bituminous material, Coking. E. O. Rhodes. 1,942,978; Jan. 9.
Bituminous material, Coking liquid or liquefiable. E. O. Rhodes. 1,942,980; Jan. 9.
Blowgun. D. G. Re Vley and J. E. Hirsh. 1,943,187; Jan. 9.
Board: *See*—
  Composition board.
Boat, Self-unloading. R. E. Sheal and C. N. Windecker. 1,942,839; Jan. 9.
Body support. W. R. Popkess. 1,942,976; Jan. 9.
Boiler construction. C. N. Lawless and J. Blackwood. 1,943,125; Jan. 9.
Boiler for hot water heating system. O. S. Burman. 1,942,915; Jan. 9.
Bookholder. N. I. Stark. 1,942,456; Jan. 9.
Books, Method of and sheet for making flat opening. C. E. Gale. 1,942,399; Jan. 9.
Boot tree. P. J. Muenchen. 1,943,244; Jan. 9.
Bottle. W. B. Cleland. Des. 91,318; Jan. 9.
Bottle. H. J. Pawling. 1,942,568; Jan. 9.
Bottle capping machine. O. N. Tevander. 1,942,885; Jan. 9.
Bottle pick-up and handling mechanism. W. R. Coppage. 1,943,004; Jan. 9.
Box: *See*—
  Journal box. Powder box.
  Locomotive driver box.
Box construction. J. R. Miller. 1,942,970; Jan. 9.
Boxes, Manufacture of two-part. J. Schmiedel. 1,943,147; Jan. 9.
Brace: *See*—
  Shoulder brace. Stepladder brace.
Bracket: *See*—
  Roof bracket. Window bracket.
Bracket. L. Bisset. 1,943,200; Jan. 9.
Brake: *See*—
  Mine car brake.
Brake beam strut. J. Ivemeyer. 1,943,271; Jan. 9.
Brake drum, Forming a. J. W. White. 1,943,198; Jan. 9.
Brake drum swaging machine. R. H. Rosenberg. 1,943,089; Jan. 9.
Brake drums, Forming. J. MacLennan. 1,943,224; Jan. 9.
Brake drums, Making. E. G. Budd. 1,943,056; Jan. 9.
Brake for an airplane antenna winch, Centrifugal. F. Burghardt. 1,942,534; Jan. 9.
Brake hanger. F. Schaefer. 1,942,777; Jan. 9.
Brake head. J. K. Blakeslee. 1,942,743; Jan. 9.
Brake mechanism. H. Naeder. 1,943,184; Jan. 9.
Brake system, Tractor. S. B. Winn. 1,942,628; Jan. 9.
Braking apparatus, Railway. J. W. Livingston. 1,942,513; Jan. 9.
Brassière. A. S. Becker. 1,942,679; Jan. 9.
Bread rack. A. G. Langenkamp and R. H. McElroy. 1,943,023; Jan. 9.
Bread slicing machine. H. E. Criner. 1,942,955; Jan. 9.
Brick and making, Refractory. P. H. Jung. 1,942,481; Jan. 9.
Brooch. W. S. Robertson. Des. 91,330; Jan. 9.
Brooder. L. F. Mott. 1,942,765; Jan. 9.
Broom rake. W. Withington. 1,942,629; Jan. 9.
Brush, Shaving. E. J. Charles. 1,943,202; Jan. 9.
Bucket, Minnow. J. R. Howard. 1,942,756; Jan. 9.
Builder's guide. G. H. Harris. 1,943,017; Jan. 9.
Building material. G. Midby. 1,943,033; Jan. 9.
Building material, Producing. N. P. Harshberger. 1,943,258; Jan. 9.
Burglar guard and alarm, Window. K. L. Jones. 1,942,707; Jan. 9.
Burial case. M. Smysor. 1,943,094; Jan. 9.

Burner: *See*—
Fuel oil burner. Thermostatic gas burner.
Gas burner. Weed burner.
Pilot burner.
Bushing, Rectifier anode. S. Widmer and A. Gaudenzi. 1,943,251; Jan. 9.
Bushing structures, Apparatus for forming. H. Schwartz. 1,942,666; Jan. 9.
Button, Collar. G. Charles. 1,942,744; Jan. 9.
Button, Molded. P. E. Fenton. 1,943,063; Jan. 9.
Cabinet, Bathroom. A. Gigi. Des. 91,320; Jan. 9.
Cabinet for a game table. H. B. Stoner. Des. 91,335; Jan. 9.
Cabinet, Seed dispensing. A. L. Jones. 1,942,895; Jan. 9.
Cable and method of manufacture, Electrical. E. W. McKnight. 1,943,086; Jan. 9.
Cable and method of manufacture, Electrical. F. M. Potter and E. W. McKnight. 1,943,087; Jan. 9.
Cable tap connecter. K. V. Johnson. 1,943,020; Jan. 9.
Camera leveling and shutter controlling apparatus. A. T. Kennedy. 1,942,604; Jan. 9.
Can cutting device. J. Bech. 1,942,994; Jan. 9.
Car retarder for railroads. N. C. L. Brown. 1,942,802; Jan. 9.
Carbon dioxide, Method and apparatus for producing low temperature high pressure liquid. F. R. Zumbro. 1,943,232; Jan. 9.
Carbureting means. C. W. Painter. 1,942,875; Jan. 9.
Carburetor. R. E. MacKenzie. 1,943,082; Jan. 9.
Card or label holder. H. B. Doppel. 1,943,168; Jan. 9.
Carton, Separable cellular. J. E. Walsh. 1,942,910; Jan. 9.
Case: *See*—
Burial case.
Castor oil derivative drying oil and producing the same. J. Scheiber. 1,942,778; Jan. 9.
Catalytic apparatus. A. O. Jaeger. 1,942,817; Jan. 9.
Cathode ray oscillograph. W. Rogowski and E. Flegler. 1,942,572; Jan. 9.
Cathode ray sound recording. W. D. Coolidge. 1,943,109; Jan. 9.
Cellulose derivatives, Treatment of. G. H. Ellis and R. Mann. 1,943,008; Jan. 9.
Cellulose digester. F. Krüger. 1,943,221; Jan. 9.
Cellulose organic ester composition containing dibutyl malate. H. B. Smith. 1,942,843; Jan. 9.
Cellulose organic ester composition of matter containing an ester of dibromo succinic acid. H. B. Smith. 1,942,844; Jan. 9.
Cellulose solution. C. Graenacher. 1,943,176; Jan. 9.
Cementation mixture for ferrous metals. A. Folliet and N. Sainderichin. 1,943,171; Jan. 9.
Centrifugal separator. G. ter Meer. 1,943,098; Jan. 9.
Chair: *See*—
Folding chair.
Chair. V. Leibo. 1,943,081; Jan. 9.
Charging apparatus for coke ovens. E. O. Rhodes, E. W. Volkmann, and J. C. Fitzpatrick. 1,942,979; Jan. 9.
Chemistry. J. Fleischer. 1,943,268; Jan. 9.
Chock for vehicle elevators. J. D. Cochin. 1,943,003; Jan. 9.
Christmas tree holder. C. E. Holden. 1,943,269; Jan. 9.
Chromium plating. G. E. Barber. 1,942,469; Jan. 9.
Cigarette package. T. J. Chute. 1,943,204; Jan. 9.
Cigarette, Self-lighting. J. Parsons. 1,942,899; Jan. 9.
Circuit breaker system, Automatic reclosing. J. N. Stewart. 1,943,096; Jan. 9.
Circuit, Electric translating. P. Lenz. 1,943,126; Jan. 9.
Circuit, Electron tube. W. L. Selbert. 1,942,983; Jan. 9.
Circuit interrupter. W. M. Austin. 1,942,678; Jan. 9.
Circuitous elevator. H. D. James. 1,943,119; Jan. 9.
Clamp: *See*—
Cloth clamp. Slip clamp.
Piston clamp.
Clamp. E. J. Hornung. 1,942,600; Jan. 9.
Clasp: *See*—
Collar clasp.
Clasp fastening, Sliding. C. J. Crawford. 1,943,111; Jan. 9.
Clock, Appointment reminder. A. W. Carver and F. M. Hazleton. 1,942,409; Jan. 9.
Clock, Electrically driven. H. Kienzle. 1,943,079; Jan. 9.
Closure for liquid containers. M. Klusch. 1,942,714; Jan. 9.
Closure for tanks, radiators, and the like. L. K. Franklin. 1,943,010; Jan. 9.
Cloth clamp. M. M. Perlstein. 1,942,728; Jan. 9.
Clutch: *See*—
Transmission clutch.
Clutch. J. O. Fink. 1,942,691; Jan. 9.
Clutch mechanism. F. H. Hadfield. 1,943,016; Jan. 9.
Coal loading machine. T. A. Collison. 1,943,235; Jan. 9.
Coating composition. W. F. Whitescarver and H. H. Hopkins. 1,942,736; Jan. 9.
Coffee, Roasting. E. J. Dent. 1,943,211; Jan. 9.
Coin controlled switch. L. E. Scott and E. A. Smith. 1,942,618; Jan. 9.
Cold handle. G. C. Reith. 1,942,493; Jan. 9.
Collapsible container. J. H. Phillips. 1,942,771; Jan. 9.
Collapsible tube. W. F. Schmalz. 1,942,942; Jan. 9.
Collar clasp. W. H. Schoonmaker. 1,942,904; Jan. 9.
Comb, Bead tip hair tooth. O. Griffin. 1,942,753; Jan. 9.
Compensator for paper rolls, Automatic. H. A. W. Wood. 1,942,504; Jan. 9.
Composite panel and producing the same. T. B. Munroe and E. C. Lathrop. 1,942,728; Jan. 9.
Composition board. A. D. Stewart. 1,942,946; Jan. 9.
Composition containing chlorinated diphenyl and nitrocellulose. R. L. Jenkins. 1,942,926; Jan. 9.
Composition of matter. W. J. Lilpert. 1,943,181; Jan. 9.
Compressor. M. R. Hutchison, jr. 1,942,428; Jan. 9.
Compressor. W. K. Schmidt. 1,943,091; Jan. 9.
Concealed flush tank. F. D. Reynolds. 1,943,041; Jan. 9.
Concrete and the like, Apparatus for working. C. Jackson. 1,943,076; Jan. 9.
Concrete construction. M. L. Morse. 1,942,971; Jan. 9.
Concrete, masonry, and steel construction. J. J. O'Reilly. 1,943,036; Jan. 9.
Conduit-holding device. C. L. Knutson. 1,943,261–2; Jan. 9.
Connection, Flexible. L. O. Moffitt. 1,942,721; Jan. 9.
Connection, Flexible. F. W. Peters. 1,942,973; Jan. 9.
Connection, Universal driving. G. S. Coats. 1,942,745; Jan. 9.
Connecter: *See*—
Battery connecter. Train pipe connecter.
Cable tap connecter.
Container: *See*—
Collapsible container. Sheet metal container.
Cosmetic container. Shipping and display container.
Liquid container.
Radio container.
Container. J. L. Bennett. 1,942,953; Jan. 9.
Container or the like, Cigarette. R. G. Berry, jr. 1,943,052; Jan. 9.
Control apparatus for power machines. L. F. Meunier. 1,942,825; Jan. 9.
Control for elevators, Duel system of. V. Federici. 1,942,415; Jan. 9.
Control mechanism for hopper car doors. W. J. Hoscelt. 1,942,702; Jan. 9.
Control shutter for engine radiators. U. K. Johannsen. 1,943,239; Jan. 9.
Control system. J. Eaton. 1,943,114; Jan. 9.
Control system. F. Mohler. 1,943,084; Jan. 9.
Control system. V. E. Whitman. 1,942,587; Jan. 9.
Conveyer. F. W. Cutler. 1,942,588; Jan. 9.
Cooker. C. B. Upton. 1,942,624; Jan. 9.
Cooler: *See*—
Water cooler.
Cooling and moistening material. O. Lee. 1,942,897; Jan. 9.
Cooling element, Secondary. R. S. Taylor and R. A. Heim. 1,942,458; Jan. 9.
Cooling unit for mechanical refrigeration. G. J. Smith. 1,942,842; Jan. 9.
Copper and copper alloys, Treating. C. E. Irion. 1,942,923; Jan. 9.
Corn coverer. F. W. Greimann. 1,943,219; Jan. 9.
Corrugator. S. M. Langston. 1,943,080; Jan. 9.
Cosmetic container. N. Kasdan. 1,942,928; Jan. 9.
Cotton, Method of and apparatus for drying. J. E. Mitchell. 1,942,868; Jan. 9.
Cotton picker. W. A. Martin. 1,942,969; Jan. 9.
Cotton picking means. O. H. Basquin, C. Harazin, and G. T. Gerlach. 1,942,405; Jan. 9.
Coupler. E. P. Kinne and F. H. Kayler. 1,942,759; Jan. 9.
Coupling: *See*—
Flexible coupling.
Coupling for belts or the like. E. Sawyer. 1,942,836; Jan. 9.
Coupling system. L. Walsh. 1,942,786; Jan. 9.
Couplings, Method of and apparatus for effecting tight. C. K. Brooks and E. H. Schmidt. 1,942,949; Jan. 9.
Cover: *See*—
Basket cover.
Crank, Nonreversing hand. C. Walter. 1,943,230; Jan. 9.
Crate, Collapsible. F. J. Klinka. 1,942,713; Jan. 9.
Cups from sheet metal, Apparatus for producing deep. W. C. Ludington. 1,942,930; Jan. 9.
Current limiter. D. L. Keiser. 1,943,021; Jan. 9.
Current potentials to alternating current potentials, Device for changing direct. D. H. Mitchell. 1,943,183; Jan. 9.
Curtain, Sleeping porch. M. K. Graham. 1,942,474; Jan. 9.
Cutter: *See*—
Paper cutter. Sod cutter.
Cutter for corn harvesters. F. W. Bueker. 1,943,201; Jan. 9.
Cylinder head. H. L. McPherson. 1,942,439; Jan. 9.
Daylight screen. T. Shimizu. 1,942,841; Jan. 9.
Decorative article, Molded. L. O. Marsteller. 1,943,131; Jan. 9.
Defrosting cooling element of mechanical refrigeraters. J. A. Dienner and J. E. Gardiner. 1,942,412; Jan. 9.
Deicer for aeroplanes. C. W. Leguillon. 1,942,867; Jan. 9.
Delinquency indicator of flyback type. R. M. Hopkins. 1,942,814; Jan. 9.
Delinquency indicator of revolving arm type. R. M. Hopkins. 1,942,815; Jan. 9.
Demountable wheel. J. H. Wagenhorst. 1,943,151; Jan. 9.
Dental rolls, Making absorbent. J. W. B. Ladd. 1,942,654; Jan. 9.
Deodorant attachment for cooking utensils. R. H. Peters. 1,942,900; Jan. 9.

Die placing and shifting. L. A. Mayle. 1,943,133; Jan. 9.
Diffuser. W. J. Orchard. 1,942,659; Jan. 9.
Discharge means of a liquid measure, Indicating the open and closed positions of the. R. B. Munday. 1,943,138; Jan. 9.
Dishwashing machine. M. C. Rogers. 1,942,452; Jan. 9.
Dispenser: *See*—
Straw dispenser. Sugar dispenser.
Dispensing apparatus. N. R. Kirk. 1,942,556; Jan. 9.
Dispensing receptacle. E. M. Godfrey, jr. 1,943,217; Jan. 9.
Dispensing tube. R. J. Short. 1,942,576; Jan. 9.
Distillation apparatus. K. C. D. Hickman. 1,942,858; Jan. 9.
Distillation, Fractional. A. G. Peterkin, jr. 1,942,446; Jan. 9.
Distilling nonmiscible substances in columns. E. Öman and S. H. Ledin. 1,942,767; Jan. 9.
Domestic power unit. F. R. Erbach. 1,942,689; Jan. 9.
Door construction, Trap. J. R. Borba. 1,942,681; Jan. 9.
Door controlling mechanism. I. T. Mise. 1,942,720; Jan. 9.
Door covering attachment, Refrigerator. W. F. Davis and C. E. Norelius. 1,942,509; Jan. 9.
Door holding device. R. H. Hummert. 1,942,860; Jan. 9.
Doorlatch. A. S. Schenker and H. Sheer. 1,942,731; Jan. 9.
Door operating mechanism. J. A. Schweig. 1,943,042; Jan. 9.
Douche device. D. B. Hanna. 1,942,422; Jan. 9.
Douche, Vaginal. M. S. Corbett. 1,943,110; Jan. 9.
Dowel bar cap and stop. E. A. Robertson. 1,942,494; Jan. 9.
Draft gear. H. L. Spence. 1,942,907; Jan. 9.
Draft gear. D. F. Sproul. 1,943,043; Jan. 9.
Draftsman's table. G. A. O'Farrell. 1,942,727; Jan. 9.
Drapery suspension fixture. C. W. Kirsch. 1,942,712; Jan. 9.
Dress or similar article, One piece sport. G. B. Redman. Des. 91,329; Jan. 9.
Drill: *See*—
Rock drill.
Drive for machine tools, Hydraulic. J. K. Douglas. 1,943,061; Jan. 9.
Drying machine. B. A. Parkes. 1,942,828; Jan. 9.
Dumping body, Hydraulic. W. C. Anthony and L. Wachter. 1,942,402; Jan. 9.
Edible article. A. M. Henry. 1,942,423; Jan. 9.
Electric bulb or similar article. A. Abramson. Des. 91,309; Jan. 9.
Electric discharge device. A. E. McLeod. 1,942,824; Jan. 9.
Electric furnace. R. Schmitz. 1,942,981; Jan. 9.
Electric heater. G. L. Jessup. 1,942,758; Jan. 9.
Electric plug receptacle. H. Zucker. 1,943,154; Jan. 9.
Electric switch, Time controlled. J. W. Redmond. 1,943,040; Jan. 9.
Electric wave filter. H. C. Och. 1,942,488; Jan. 9.
Electrical apparatus. J. Q. Gaubert. 1,942,961; Jan. 9.
Electrical appliance. E. A. Rutenber. 1,942,835; Jan. 9.
Electrical connection. J. M. White. 1,942,586; Jan. 9.
Electrical drive for sound film equipments and the like. F. Fischer. 1,943,065; Jan. 9.
Electrical indicating device. E. F. Bacon. 1,942,529; Jan. 9.
Electrical insulation. W. C. Ellis. 1,943,115; Jan. 9.
Electrical machine. F. Fischer. 1,943,064; Jan. 9.
Electrical marking device. M. C. Walter. 1,943,100; Jan. 9.
Electrical outlet. M. M. Clayton. 1,943,001; Jan. 9.
Electrical precipitation apparatus. G. Grave. 1,943,070; Jan. 9.
Electrical resistance unit. D. T. Siegel. 1,942,496; Jan. 9.
Electrode for luminescent tubes. R. R. Wiley and A. L. Brandt, sr. 1,942,627; Jan. 9.
Electrode for secondary cells. K. Ackermann. 1,942,791; Jan. 9.
Electrolytic extraction of pure alumina. J. Weber, A. von Zeerleder, and W. D. Treadwell. 1,942,522; Jan. 9.
Electromechanical system. L. M. Applegate. 1,942,740; Jan. 9.
Electron emitting element. H. Rabezzana and O. S. Duffendack. 1,943,027; Jan. 9.
Electrostatic shielding material. L. Shapiro. 1,942,575; Jan. 9.
Elevator: *See*—
Circuitous elevator.
Elevator cleaning device. D. M. Binger. 1,942,590; Jan. 9.
Embalming apparatus. W. C. Black. 1,942,407; Jan. 9.
Embossed articles from plaster strip material, Apparatus for producing. F. D. Fowler. 1,942,398; Jan. 9.
Embossing and printing machine. P. A. Gardner, jr. 1,943,068; Jan. 9.
Emulsion, Photographic. L. G. S. Brooker. 1,942,854; Jan. 9.
Engine: *See*—
Internal combustion engine. Pneumatic engine.
Engine and transmission control means. E. S. Bush. 1,948,057; Jan. 9.
Evaporator. C. L. Burnham. 1,943,106; Jan. 9.
Expander for piston rings. M. W. Marien. 1,942,968; Jan. 9.
Expansion head. J. M. Hewgley. 1,942,598; Jan. 9.
Extension for tractor trucks, Detachable. H. B. Haines. 1,942,475; Jan. 9.
Eyeshade. F. E. Place. 1,943,277; Jan. 9.
Eye testing device. E. D. Tillyer. 1,942,850; Jan. 9.
Eyes for dolls, manikins and the like, Artificial. L. J. Grubman. 1,943,117; Jan. 9.
Fabric, Method and composition for delustering. C. R. Weiss and W. R. Bennett. 1,942,523; Jan. 9.
Fabricated tank. W. Schwemlein. 1,943,191; Jan. 9.
Fastener: *See*—
Wagon and gate fastener.
Faucet. L. J. Miller. 1,943,276; Jan. 9.
Feed. C. F. Schnabel. 1,942,943; Jan. 9.
Feed water regulator. W. L. Hunter and K. B. Whitley. 1,942,427; Jan. 9.
Feed water regulation. D. K. Swartout, jr. 1,943,248; Jan. 9.
Feeding device for a special lathe. H. Arni. 1,942,403; Jan. 9.
Felt and the resultant product, Marking. W. R. Menshon. 1,942,763; Jan. 9.
Fiber products, Protecting. F. A. Irvine. 1,942,706; Jan. 9.
Fibers, Sizing artificial. C. F. Chandler. 1,943,000; Jan. 9.
Filaments or threads, Apparatus for the production of artificial. H. Dreyfus, E. Kinsella, J. Bower, and W. I. Taylor. 1,942,540; Jan. 9.
Files, Apparatus for sharpening. A. A. Roth. 1,942,881; Jan. 9.
Filling device for packing machines. P. Gangler. 1,943,013; Jan. 9.
Film, etc., Leaching. E. R. Taylor and C. E. Allen. 1,942,848; Jan. 9.
Film magazine construction. D. McMaster. 1,942,869; Jan. 9.
Film-supports for color photography, Making. J. Eggert and G. Heymer. 1,943,169; Jan. 9.
Films from cellulosic materials, Manufacture of. S. E. Sheppard and L. W. Eberlin. 1,942,840; Jan. 9.
Filter: *See*—
Electric wave filter.
Filter. J. Weinstein. 1,942,584; Jan. 9.
Filter pressure control, Oil. H. G. Kamrath. 1,942,554; Jan. 9.
Filtering element. J. de la Torre. 1,943,165; Jan. 9.
Fire escape. E. Gross. 1,942,695; Jan. 9.
Fire extinguisher. J. B. Quinn. 1,943,186; Jan. 9.
Fire extinguisher. L. G. Suggs. 1,942,906; Jan. 9.
Fire-extinguishing system, Automatic. E. A. Lowe and J. R. Hamilton. 1,942,822; Jan. 9.
Fire fighting tool. C. H. Rich. 1,942,901; Jan. 9.
Fish cooking apparatus. D. D. Peebles, P. D. V. Manning, and A. H. Potbury. 1,942,830; Jan. 9.
Fishing line to a bob, Attaching a. R. V. Zimmer. 1,942,738; Jan. 9.
Flexible coupling. R. A. Smith. 1,942,782; Jan. 9.
Flexible insulated pipe. P. B. Andrews. 1,942,468; Jan. 9.
Float operated switch. J. B. Fryar. 1,943,011; Jan. 9.
Floral rack. C. L. Brown. 1,942,950; Jan. 9.
Flotation machine. A. C. Daman. 1,942,803; Jan. 9.
Fluid flow, Controlling. H. J. Mastenbrook. 1,943,241; Jan. 9.
Fluid foil. D. R. Davis. 1,942,688; Jan. 9.
Fluid pressure tool. F. E. Terrill. 1,942,784; Jan. 9.
Fluid transfer device. L. N. Hampton. 1,942,549; Jan. 9.
Fluids, Method of and apparatus for deodorizing and dehydrating. P. F. Rust. 1,943,146; Jan. 9.
Fluids through conduits, Apparatus to control the flow of. W. H. Bailey. 1,942,793; Jan. 9.
Flush valve. W. F. Schultheiss. 1,942,837; Jan. 9.
Fly ash structural material. H. C. Peffer and P. W. Jones. 1,942,769–70; Jan. 9.
Folding chair. W. E. Clarin. 1,943,058; Jan. 9.
Folding chair. F. M. Overbey. 1,943,037; Jan. 9.
Folding table. W. O. Brown. Des. 91,315; Jan. 9.
Folding table. K. G. Johanson. 1,942,603; Jan. 9.
Forging furnace. A. J. Nordenson. 1,942,515; Jan. 9.
Form, Hosiery drying. T. W. Prosser and J. H. Wahlbeck. 1,942,448; Jan. 9.
Forming and breaking head for wire rope stranders and closers. W. E. Somerville. 1,942,670; Jan. 9.
Fountain sirup pump, Soda. F. W. Ludwig. 1,942,609; Jan. 9.
Frame. H. M. Magid. 1,942,437; Jan. 9.
Free wheel mechanism. H. F. von Thüngen. 1,942,909; Jan. 9.
Freezer construction, Ice-cream. W. R. Helwege. 1,942,696; Jan. 9.
Frequency control device. G. B. Hirsch. 1,942,599; Jan. 9.
Fruit and vegetable press. R. Stoico. 1,943,150; Jan. 9.
Fruit and vegetables, Method of and apparatus for classifying. A. R. Thompson and K. Omsted. 1,943,278; Jan. 9.
Fuel oil burner. F. K. Sparling. 1,942,619; Jan. 9.
Fuel pump. L. Coatalen. 1,943,162; Jan. 9.
Furnace: *See*—
Electric furnace. Forging furnace.
Furnace and method of operating. F. H. Daniels. 1,942,687; Jan. 9.
Furnace linings, Fixing. J. Johnstone. 1,942,863; Jan. 9.

Furnaces, Operating open hearth. A. J. Boynton. 1,942,682; Jan. 9.
Furniture, Article of. H. W. Davis. 1,942,856; Jan. 9.
Furniture, Combination. J. C. Tridle. 1,942,623; Jan. 9.
Furrier's art. P. Holman. 1,942,425; Jan. 9.
Fuse switch. T. B. Bash. 1,942,634; Jan. 9.
Game apparatus. J. S. Nicholas. 1,942,932; Jan. 9.
Game device. W. L. Nelson. 1,942,898; Jan. 9.
Game device. D. C. Rockola. 1,942,880; Jan. 9.
Game, Marble target. W. W. Harris. 1,942,476; Jan. 9.
Gas burner. R. F. Cuyler. 1,942,397; Jan. 9.
Gas heater. G. F. Reznor. 1,942,936; Jan. 9.
Gas mask head harness. A. V. Motsinger. 1,942,442; Jan. 9.
Gas material, Apparatus for dispensing. L. I. Dana. 1,943,059; Jan. 9.
Gas material, Apparatus for dispensing. L. C. Updegraff. 1,943,047; Jan. 9.
Gas material, Method and apparatus for dispensing. H. C. Smith. 1,942,944; Jan. 9.
Gas reactions, Performing endothermic. T. S. Wheeler and D. Binnie. 1,942,889; Jan. 9.
Gases, Cooling and purifying burner. E. J. Mullen. 1,943,137; Jan. 9.
Gases, Purification of. F. J. Metzger. 1,942,485; Jan. 9.
Gases, Pyrolysis of hydrocarbon. C. C. Towne. 1,943,246; Jan. 9.
Gaseous mixtures, Apparatus for making explosive. J. A. de Grey. 1,942,956; Jan. 9.
Gasket. A. H. Kinzel. 1,943,122; Jan. 9.
Gasket. G. H. Pfefferle. 1,942,489; Jan. 9.
Gasket. C. R. Hubbard and F. W. Armstrong. 1,942,703–4; Jan. 9.
Gate construction. A. Saurbrey. 1,942,617; Jan. 9.
Gauge: *See*—
Liquid level gauge.
Gauge for typewriters, Line. H. U. Bittman. 1,942,406; Jan. 9.
Gear: *See*—
Draft gear.
Gear and method of manufacture, Silent. R. W. Lytle. 1,943,024; Jan. 9.
Gear drive, Reduction. M. B. Benson. 1,942,796; Jan. 9.
Gear grinding machine, Helical. E. R. Fellows. 1,942,416; Jan. 9.
Gear wheel seat, Automatic adjusting splined. M. M. Condron. 1,943,266; Jan. 9.
Gelatin reliefs and making metal casts therefrom, Developing. A. Murray. 1,942,872; Jan. 9.
Gift wrapping ensemble. C. Weiner. 1,942,673; Jan. 9.
Girder for aircraft, Light weight. L. Dürr. 1,943,256; Jan. 9.
Glass, Optical. E. Berger. 1,943,051; Jan. 9.
Glass working apparatus. W. L. Van Ness. 1,943,195; Jan. 9.
Glazing bar. J. A. McDonald. 1,942,871; Jan. 9.
Globe with appliances mounting for attaching them. F. Deutsch. 1,942,805; Jan. 9.
Glue and gelatin, Electricosmotic fractionation of. A. Jenny. 1,942,478; Jan. 9.
Goggles. N. M. Baker. 1,942,394; Jan. 9.
Goggles, Aviator's. N. M. Baker. 1,942,393; Jan. 9.
Golf club. R. A. Link. 1,942,434; Jan. 9.
Golf club grip. L. H. Gerow. 1,942,922; Jan. 9.
Golf club head. G. W. Thompson. Des. 91,336; Jan. 9.
Golf player's club selecting device. F. H. Ford. 1,943,066; Jan. 9.
Golf tee. H. R. Thompson. 1,942,672; Jan. 9.
Gong, Single stroke. I. W. Green. 1,942,811; Jan. 9.
Governor control mechanism. M. J. Goldberg. 1,943,069; Jan. 9.
Governor, Differential. P. W. Beggs. 1,942,913; Jan. 9.
Grate, Open fireplace. G. P. Davis. 1,943,209; Jan. 9.
Gravity hinge. J. R. Kunzelman. 1,942,715; Jan. 9.
Grease pumping apparatus. J. W. Woodruff. 1,943,102; Jan. 9.
Grinding mill. W. C. Wood. 1,942,528; Jan. 9.
Guard, Dust. V. E. Nelson. 1,942,567; Jan. 9.
Guide and take-up for electric cords. H. H. Moser. 1,943,136; Jan. 9.
Gyroscope control. G. A. Wood. 1,942,737; Jan. 9.
Gyro vertical for aircraft. P. R. Bassett. 1,942,470; Jan. 9.
Hair waving apparatus. R. M. Keele. 1,942,965; Jan. 9.
Hair waving apparatus. T. I. Moseley. 1,942,972; Jan. 9.
Halogen derivatives of isodibenzopyrenequinones. M. A. Kuns and K. Koeberle. 1,942,761; Jan. 9.
Handle: *See*—
Cold handle.
Handle lock for vacuum cleaners. E. S. Crispin. 1,943,163; Jan. 9.
Hanger: *See*—
Brake hanger. Seat hanger.
Heat exchanger, Single pass. C. S. Reed. 1,942,878; Jan. 9.
Heat insulating product. G. M. Thomson. 1,942,989; Jan. 9.
Heat treatment of cables. R. O. Helgeby. 1,942,550; Jan. 9.
Heater: *See*—
Electric heater. Windshield heater.
Gas heater.
Heater and cook stove, Combined oil burning. W. T. Bradbury. Des. 91,313; Jan. 9.
Heating and ventilating system. M. G. Beard. 1,943,233; Jan. 9.
Heating apparatus. D. D. Kimball and V. J. Cucci. 1,942,432; Jan. 9.
Heating apparatus. G. W. Lutz. 1,943,223; Jan. 9.
Heating system. S. J. Perry. 1,942,881; Jan. 9.
Heating system, Motor vehicle. H. S. Colby. 1,943,108; Jan. 9.
Hinge: *See*—
Gravity hinge.
Hinge and seal for trunks. G. W. Stallings. 1,942,620; Jan. 9.
Hobbyhorse. W. F. Burket. 1,942,396; Jan. 9.
Hoist, Vehicle. R. D. Smith. 1,942,945; Jan. 9.
Hoisting mechanism for dump trucks. L. B. Beath. 1,943,050; Jan. 9.
Holder: *See*—
Card or label holder. License plate holder.
Christmas tree holder. Match box holder.
Iron holder.
Holder for shoulder straps. F. Spindler. 1,942,734; Jan. 9.
Hook fastener slide, Safety removable. A. Bebel and B. Pruzan. 1,942,912; Jan. 9.
Hose attachment, Garden. A. M. Hilton. 1,942,701; Jan. 9.
Hose for vehicle brakes. A. D. Pentz. 1,942,829; Jan. 9.
Hosiery drying apparatus. T. W. Prosser and J. H. Wahlbeck. 1,942,729; Jan. 9.
Hothouse, Portable. N. L. Jacobus. 1,942,477; Jan. 9.
Hub cap and securing same to wheel hubs. W. N. Booth. 1,943,159; Jan. 9.
Humidifier. W. H. and L. L. Werhan, and F. S. Usrey. 1,942,502; Jan. 9.
Hygrometer. L. Reeve. 1,942,934; Jan. 9.
Ice cream cone. D. J. Jones. 1,942,896; Jan. 9.
Ice on airplanes and the like, Preventing the formation of. E. A. Driscoll. 1,943,062; Jan. 9.
Igniting composition, especially for matches, and match prepared therewith, Moistureproof. S. H. Ledin. 1,942,866; Jan. 9.
Illuminated sign. R. R. and W. K. Wiley, and H. J. Cudney. 1,942,626; Jan. 9.
Illuminating unit, Decorative. M. A. Yohe. Des. 91,342; Jan. 9.
Incinerator. H. C. Maul. 1,943,132; Jan. 9.
Indene, Recovery of. L. Kahl. 1,943,078; Jan. 9.
Index device. S. B. Freiberg. 1,942,510; Jan. 9.
Indexing mechanism, Hydraulically actuated. A. M. Johnson and C. O. Holland. 1,942,927; Jan. 9.
Indicator: *See*—
Remote temperature indicator. Time interval indicator.
Induction motor, Line-start. C. E. Johnson. 1,942,649; Jan. 9.
Ink, double-rolling control. H. T. Quigley. 1,942,490; Jan. 9.
Insecticide and insectifuge. E. W. Adams and G. M. McNulty. 1,942,892; Jan. 9.
Insulating material. W. R. Gillies. 1,942,546; Jan. 9.
Insulating mounting for anode grids. J. T. Mathews. 1,943,242; Jan. 9.
Interlocking system for railroads. S. N. Wight. 1,942,788; Jan. 9.
Internal combustion engine. C. L. Boisset. 1,943,053; Jan. 9.
Internal combustion engine. A. J. Meyer. 1,942,657; Jan. 9.
Internal combustion engine, Double acting. O. Petersen. 1,943,143; Jan. 9.
Internal-combustion engine, Two-stroke. H. R. Ricardo. 1,942,571; Jan. 9.
Iron holder. H. I. Holstrom. 1,942,755; Jan. 9.
Ironing table. C. Danielson. 1,942,916; Jan. 9.
Irrigating. J. Weiss. 1,943,152; Jan. 9.
Jack: *See*—
Riveting jack.
Joint: *See*—
Torsional cross joint.
Journal bearing. P. W. Dieter. 1,943,167; Jan. 9.
Journal box. R. J. Brittain, jr. 1,943,054; Jan. 9.
Journal box and car frame support. R. J. Brittain, jr. 1,943,055; Jan. 9.
Journal box, Car truck. A. J. Cook. 1,942,954; Jan. 9.
Jug. W. B. Cleland. Des. 91,317; Jan. 9.
Key retainer. J. Jachens. 1,942,924; Jan. 9.
Knitting machine. H. E. Houseman. 1,942,816; Jan. 9.
Knitting machine. A. E. Stewart. 1,943,265; Jan. 9.
Lacquer and making the same. L. Roon. 1,942,902; Jan. 9.
Ladder with rear prop, Folding. L. Corneloup. 1,943,206; Jan. 9.
Lampholder. F. Deutsch. 1,942,804; Jan. 9.
Larvicide and making the same. J. C. Munday. 1,942,532; Jan. 9.
Lens and making same, Optical. H. M. E. Sachs. 1,942,775; Jan. 9.
Lever for furnaces, Automatic. G. E. Dietz. 1,943,213; Jan. 9.
License plate holder, Automobile. C. R. Davis. 1,943,060; Jan. 9.
Lifeboat launching device. J. R. Dickinson. 1,943,166; Jan. 9.
Light-sensitive cell. A. W. Carpenter. 1,942,958; Jan. 9.
Light-sensitive tube. G. R. Stillwell. 1,942,501; Jan. 9
Light valve. A. M. Curtis. 1,943,112; Jan. 9.

Liquid and gas spray pump. W. D. Carter. 1,943,234; Jan. 9.
Liquid concentration control apparatus. K. C. D. Hickman. 1,942,859; Jan. 9.
Liquid container. A. Diesbourg. 1,942,957; Jan. 9.
Liquid dispensing apparatus. W. Vachoux. 1,943,194; Jan. 9.
Liquid feeding mechanism. R. K. Swain and R. O. Davis. 1,942,908; Jan. 9.
Liquid level gauge. N. W. Cummings. 1,943,207; Jan. 9.
Liquids and gases from manholes, pits, and the like, Method and apparatus for removing. M. C. Reed. 1,942,570; Jan. 9.
Liquids and the like, Apparatus for coking bituminous. L. C. Karrick. 1,942,650; Jan. 9.
Liquids, Apparatus for the separation of particles from. A. M. R. Karlstrom. 1,943,180; Jan. 9.
Loading machine. W. H. Bosworth. 1,942,798; Jan. 9.
Lock. M. Broff. 1,942,533; Jan. 9.
Lock. M. Samburg. 1,942,454; Jan. 9.
Lock for register flash mechanism. W. G. Orth and T. O'Connor. 1,942,615; Jan. 9.
Lock for window-operators, Automatic. H. C. Hart. 1,942,962; Jan. 9.
Locking device. F. W. Tobey. 1,943,099; Jan. 9.
Locomotive driver box. J. J. Hennessy. 1,942,968; Jan. 9.
Looms, Automatic fork for. W. F. Clayton. 1,943,002 Jan. 9.
Looms, Weft-shoot-changing device for gripper. 1,943,002; Jan. 9.
Lubricating apparatus. O. U. Zerk. 1,942,631; Jan. 9.
Lubricating device. O. Swanson. 1,942,847; Jan. 9.
Lubricating means. J. M. Merrow. 1,943,243; Jan. 9.
Lubricating system. F. H. Gleason. 1,943,014; Jan. 9.
Lubricator. L. A. Merk. 1,942,484; Jan. 9.
Lubricator. E. W. H. Rennick. 1,942,450; Jan. 9.
Luminous display device. W. O. Prouty. 1,942,877; Jan. 9.
Machine for assembling mattress tufts and tufting cords. J. F. Gail. 1,942,420; Jan. 9.
Machine for continuous centrifugal casting. R. H. Eurich and B. F. Anthony. 1,942,919; Jan. 9.
Machine for cubing meat. J. P. Spang. 1,942,499; Jan. 9.
Machine for dyeing yarn. H. Gough. 1,943,175; Jan. 9.
Machine for filling and corking bottles of any shape and dimension. E. F. Dauteuil. 1,943,208; Jan. 9.
Machine for manufacturing hose. C. C. Spadone. 1,942,498; Jan. 9.
Machine for packing articles into boxes. W. D. Kimball and C. Braren. 1,942,555; Jan. 9.
Machine for reducing printing plates to uniform thickness. L. W. Claybourn. 1,942,592; Jan. 9.
Machine for slitting meat, vegetables, and the like. J. P. Spang. 1,942,500; Jan. 9.
Magazine, Motion picture film. O. Wittel. 1,942,890; Jan. 9.
Magazine, Motion picture film. O. Wittel. 1,942,891; Jan. 9.
Magnetic interrupter. W. P. Lear and M. E. Nulsen. 1,943,240; Jan. 9.
Magneto. J. Bohli. 1,943,157; Jan. 9.
Magneto ignition apparatus. W. Walther and H. Bischoff. 1,943,249; Jan. 9.
Manifolding apparatus. H. T. Mosfelt and H. Schagerholm. 1,942,722; Jan. 9.
Manifolding device. G. O. Degener. 1,942,747; Jan. 9.
Map drawing apparatus, Pantographic. O. Coradi. 1,943,205; Jan. 9.
Masonry, Coating. K. Müller and E. Hutzenlaub. 1,943,085; Jan. 9.
Massaging device. J. Grison. Re19,043; Jan. 9.
Match box holder. I. H. Dube. 1,943,214; Jan. 9.
Material, Method of and apparatus for treating and handling. J. L. Cooney. 1,942,855; Jan. 9.
Mattress and the like and manufacturing the same. W. L. Grapp. 1,942,693; Jan. 9.
Measuring device. K. C. D. Hickman. 1,942,857; Jan. 9.
Measuring devices, Projecting gradnations and characters of. M. L. Clark. 1,942,508; Jan. 9.
Meat and the like, Preparation of frozen. G. R. Henney and C. T. Walter. 1,943,019; Jan. 9.
Meat-slitting machine. J. P. Spang. 1,942,985; Jan. 9.
Mechanical motion, Mechanism for electrically controlling. T. A. Carver. 1,943,161; Jan. 9.
Metal bars, Process and apparatus for bending. A. T. Yates. 1,942,992; Jan. 9.
Metal carbamates, Production of water soluble. R. B. MacMullin. 1,942,610; Jan. 9.
Metal drawing press. N. E. Methlin. 1,943,032; Jan. 9.
Metals, Heat treating ferrous. J. A. and D. Robertson. 1,942,937; Jan. 9.
Meter calibrating device. J. M. Dayton. 1,943,164; Jan. 9.
Milking apparatus and process. A. Sutherland. 1,942,882; Jan. 9.
Mill: *See*—
Grinding mill. Strip mill.
Mill adjusting device, Roller. E. P. Peters. 1,943,142; Jan. 9.
Mine car brake. P. J. Dhein. 1,942,806; Jan. 9.
Mirror and making it. G. F. and W. H. Colbert. 1,942,686; Jan. 9.
Mixing valve. E. F. Niedecken. 1,943,140; Jan. 9.
Moistening device. H. W. Harrington. 1,942,813; Jan. 9.
Mokum. D. D. Williams. 1,942,463; Jan. 9.
Mold for casting zinc slabs. M. A. McCreary and W. B. Porter. 1,943,026; Jan. 9.
Mold transferring mechanism. L. P. Piazzoll, jr. 1,942,832; Jan. 9.
Molded article. C. A. Nash. 1,942,874; Jan. 9.
Molded articles of builders' hardware, Reenforced. J. H. Weller. 1,942,525; Jan. 9.
Molds, Making. W. H. Walter. 1,942,583; Jan. 9.
Mop, Detachable. A. Holtzman. 1,942,552; Jan. 9.
Motor: *See*—
Induction motor. Shaded pole induction motor.
Reciprocating motor.
Servo-motor.
Motor control system, Electric. W. H. Neville. 1,942,185; Jan. 9.
Motor speed control, Single phase electric. B. A. Wesche. 1,942,585; Jan. 9.
Mount for motors, Quick detachable. W. Railley. 1,942,834; Jan. 9.
Mount for pictures, photographs, and the like. F. Koster. 1,943,022; Jan. 9.
Mounting for jewels or similar article. I. W. Norman. Des. 91,328; Jan. 9.
Mounting for sliding vehicle seats. M. P. Browne. 1,942,998; Jan. 9.
Mounting, Hot plate. W. Richardson. 1,943,144; Jan. 9.
Mounting, Ophthalmic. J. C. Wells. 1,942,851; Jan. 9.
Needle, Upholstery. W. J. Gagnon. 1,943,174; Jan. 9.
Nitrates and recovery of nitric oxide, Method of producing. B. Uebler. 1,942,886; Jan. 9.
Nitropentaerythrite, tetranitromethylaniline, trinitroresorcine, and similar nitrocompounds, Continuoue production of. J. Meissner. 1,943,031; Jan. 9.
Nozzle-head for the artificial silk stretch-spinning process. W. zur Löwen. 1,942,632; Jan. 9.
Oil burning heater. W. T. Bradbury. Des. 91,312; Jan. 9.
Oil, Lubricating. H. T. Bennett and L. G. Story. 1,942,836; Jan. 9.
Oil-sealing device. C. R. Hubbard and R. M. Waples. 1,942,705; Jan. 9.
Oils, Dewaxing mineral. R. N. Giles. 1,943,236; Jan. 9.
Opener, Envelope. J. Stephan and P. Henckel. 1,943,193; Jan. 9.
Opener, Jar cover. C. F. Disch. 1,942,918; Jan. 9.
Operator's position equipment. R. B. Buchanan. 1,942,471; Jan. 9.
Ophthalmic lens. A. E. Glancy. 1,942,400; Jan. 9.
Organic compounds, Production of oxygenated. W. Bader and E. B. Thomas. 1,942,530; Jan. 9.
Organic products from 7,18-stearic glycol, Production of. F. Guenther and K. Saftien. 1,942,812; Jan. 9.
Orifice disk for steam radiators. W. Tallmadge. 1,942,783; Jan. 9.
Oven, Baking. J. E. Pointon and W. H. Beanes. 1,942,974; Jan. 9.
Packing apparatus. D. W. Wadsworth and W. A. Breckon. 1,942,460; Jan. 9.
Packing strips, Producing. G. Ruegenberg. 1,943,145; Jan. 9.
Paint and pigment therefor. W. G. Randolph. 1,942,491; Jan. 9.
Pan, autoclave, digester and the like, Boiling. F. B. Kern and T. E. French. 1,942,818; Jan. 9.
Paper cutter. W. L. Valiquette. 1,942,521; Jan. 9.
Paper manufacture. J. Traquair and F. G. Rawling. 1,942,622; Jan. 9.
Paper product. G. J. Manson. 1,942,438; Jan. 9.
Paper, Shelf. E. Karfiol. Des. 91,324; Jan. 9.
Paper-sorting machine. L. L. Matthews. 1,942,870; Jan. 9.
Paper webs, Making manifold. L. M. Snyder. 1,943,264; Jan. 9.
Pen, Fountain. J. Wallace. 1,943,048; Jan. 9.
Perforating device. C. G. Deubel. 1,942,539; Jan. 9.
Phase shifting device. W. A. Marrison. 1,942,483; Jan. 9.
Phenol derivatives, Preparation of nondyeing metalliferous sulphurized. V. Kartaschoff and O. Knecht. 1,943,179; Jan. 9.
Phonograph. M. Nystrom. 1,942,613; Jan. 9.
Photo-electric tube. J. Gettinger. 1,942,545; Jan. 9.
Photographs, Production of distorted. G. W. Ford. 1,943,172; Jan. 9.
Picture projector "B", Motion. L. B. Larsen. 1,942,029; Jan. 9.
Pictures by instantaneous exposure, Making stereoscopic. E. E. Draper. 1,942,638; Jan. 9.
Pilot burner, Thermostatic. C. H. Morrow. 1,943,135; Jan. 9.
Pipe: *See*—
Flexible insulated pipe. Pipe joint.
Pipe joint. E. J. Protin. 1,942,518; Jan. 9.
Piston. P. G. Vanni. 1,942,887; Jan. 9.
Piston clamp. C. W. Prochaska. 1,942,569; Jan. 9.
Piston expander. W. E. Frank. 1,942,960; Jan. 9.
Piston packing ring. C. A. Marien. 1,942,967; Jan. 9.
Piston valve. W. S. Jensen. 1,942,648; Jan. 9.
Pitch propeller, Automatically variable. D. S. de Lavaud. 1,943,210; Jan. 9.
Plane, Mail. C. N. Monteith and R. J. Minshall. Des. 91,327; Jan. 9.
Plant support. F. W. Eue. 1,942,750; Jan. 9.
Plaster supporting structure. J. Kalin and W. F. Schulz. 1,943,260; Jan. 9.

Plug: *See*—
Spark plug.
Plug cock and lubricating means therefor. J. C. Martin, jr. Re19,041; Jan. 9.
Plug for a container containing a liquid, Vent. J. L. Woodbridge. 1,942,630; Jan. 9.
Plug for storage batteries, Vent. E. Graf. 1,942,643; Jan. 9.
Plug for storage batteries, Vent. E. Graf. 1,942,645; Jan. 9.
Pneumatic engine. P. R. Forman. 1,942,543; Jan. 9.
Pocket. U. G. Charles. 1,942,410; Jan. 9.
Portable boom support. J. E. Jenkins. 1,942,925; Jan. 9.
Post: *See*—
Self driving post.
Pot and support, Plant. W. Polgar. 1,942,975; Jan. 9.
Pothead device. C. W. Sward. 1,943,247; Jan. 9.
Poultry-dressing machine. E. D. Jansen. 1,943,077; Jan. 9.
Powder box. F. R. Reutter. 1,942,935; Jan. 9.
Power. Device for accumulating. E. G. N. Salenius. 1,943,090; Jan. 9.
Power head for a pump. P. A. Myers. 1,942,611; Jan. 9.
Power head for a pump. P. A. Myers. 1,943,139; Jan. 9.
Power supply system for electron tube systems. E. R. Hentschel. 1,942,551; Jan. 9.
Power transmission and speed reduction system. M. B. Benson. 1,942,795; Jan. 9.
Power transmission mechanism. W. H. Harstick. 1,943,071; Jan. 9.
Press: *See*—
Fruit and vegetable press. Metal drawing press.
Presser foot for plain stitching and shirring. J. Chudner. 1,943,203; Jan. 9.
Pressing implement. A. Sussman. 1,942,579; Jan. 9.
Printing block and making same. B. C. Chambers. 1,942,683; Jan. 9.
Printing plates to uniform thickness, Reducing curved. L. W. Claybourn. 1,942,593; Jan. 9.
Projecting two or more actions or scenes at the same time, Method and apparatus for. V. C. de Ybarrondo. 1,942,748; Jan. 9.
Proportioning and feeding device. D. N. Randolph. 1,943,039; Jan. 9.
Protective device for commercial oil heating systems. J. W. F. MacDonald. 1,942,436; Jan. 9.
Protector for tinning connecting rods and the like. W. H. Bagley. 1,943,155; Jan. 9.
Pulp from fibrous material, Making. O. Kreissler. 1,942,760; Jan. 9.
Pump: *See*—
Fuel pump.
Liquid and gas spray pump.
Pump. H. Hueber. 1,942,646; Jan. 9.
Pump. P. S. Morgan. 1,942,441; Jan. 9.
Pump cylinder, Double acting. P. A. Myers. 1,943,034; Jan. 9.
Pyrometer. H. N. Packard. 1,942,519; Jan. 9.
Quetch. W. J. Koch. 1,942,605; Jan. 9.
Quetch. G. W. Lane. 1,942,606; Jan. 9.
Quick release device. U. A. Whitaker. 1,942,503; Jan. 9.
Rabbling device. T. J. Jamison. 1,942,553; Jan. 9.
Race track equipment. W. E. Golden. 1,942,642; Jan. 9.
Rack: *See*—
Bread rack. Shoe polishing rack.
Floral rack. Stock rack.
Rack for magazines and the like, Display. F. Newquist. 1,942,726; Jan. 9.
Radiator. L. Lithman. 1,942,559–60; Jan. 9.
Radiator hood. A. H. Levene. 1,942,607; Jan. 9.
Radiator shutter. Vehicle-engine. E. G. Petersen. 1,943,245; Jan. 9.
Radio container. E. C. Booth. 1,943,255; Jan. 9.
Radio navigating system. J. A. Willoughby. 1,942,526; Jan. 9.
Radioreceiver. J. H. Appel, jr. 1,942,792; Jan. 9.
Radioreceiving apparatus. R. G. Evans. 1,942,751; Jan. 9.
Radio-signaling. C. Soullie. 1,942,884; Jan. 9.
Radio signaling system. G. A. Mathieu. 1,942,561; Jan. 9.
Radio tube tester. R. D. Hickok. 1,942,401; Jan. 9.
Railway tie plate. G. T. Willard. 1,942,464; Jan. 9.
Razor, Safety. J. W. Ashforth. 1,942,911; Jan. 9.
Razor, Safety. A. E. Frandl. 1,943,173; Jan. 9.
Razor, Safety. J. D. Garretson. 1,942,692; Jan. 9.
Razors, Device for sharpening the blades of safety. W. Barsch. 1,943,156; Jan. 9.
Receptacle: *See*—
Dispensing receptacle. Electric plug receptacle.
Receptacle and illuminated top therefor, Combined waste. L. E. Stewart. Des. 91,334; Jan. 9.
Reciprocating motor. W. C. Erwin. 1,943,009; Jan. 9.
Rectifier system. J. R. Power. 1,943,088; Jan. 9.
Reel of the nonfree-spool type, Free-line-casting level-wind. J. Kautzky, jr. 1,942,710; Jan. 9.
Refractory and method of manufacture. K. M. Simpson. 1,943,263; Jan. 9.
Refractory material and batch and making the same. F. H. Riddle. 1,942,879; Jan. 9.
Refrigerating system. H. O. Forrest, L. Van Horn, E. and P. C. Keith, and R. B. Crawford. 1,943,116; Jan. 9.
Refrigerating unit. R. W. Kritzer. 1,943,124; Jan. 9.
Registering device, Rotary. J. C. Thompson. 1,942,621; Jan. 9.
Regulating system. L. L. B. Summers. 1,942,457; Jan. 9.
Regulator: *See*—
Feed water regulator. Water regulator.
Remote temperature indicator. C. A. de Giers. 1,943,267; Jan. 9.
Resin, Process and apparatus for cooling and granulating. S. P. Miller. 1,942,764; Jan. 9.
Resinous coating composition. J. W. Iliff and H. R. Young. 1,942,757; Jan. 9.
Rheostat potentiometer. D. T. Siegel. 1,942,495; Jan. 9.
Ring: *See*—
Piston packing ring.
Riveting jack. J. E. Trainer. 1,942,785; Jan. 9.
Rock drill. A. Feucht. 1,942,690; Jan. 9.
Rock drill. J. E. Renfer. 1,942,730; Jan. 9.
Roller: *See*—
Shade roller.
Roller straightening machine. A. Wirth. 1,943,153; Jan. 9.
Roof bracket. N. I. Pearson. 1,943,228; Jan. 9.
Rope, Spinning. J. R. O'Neil. 1,942,768; Jan. 9.
Rubber master batch and making the same. W. F. Zimmerli and W. L. Semon. 1,942,853; Jan. 9.
Rubber ring cutting machine. S. B. St. John. 1,942,986; Jan. 9.
Safety means for chairs. W. A. Sengpiel. 1,942,781; Jan. 9.
Sanding device for automotive vehicles. H. J. Gagnon. 1,942,921; Jan. 9.
Sash detent, Window. L. Larson. 1,942,966; Jan. 9.
Sausage making method and apparatus. C. H. Vogt. 1,942,582; Jan. 9.
Scraper. A. W. Abrahamsen. 1,943,252; Jan. 9.
Screen: *See*—
Daylight screen.
Screen. P. Booth. 1,942,948; Jan. 9.
Screen for automobiles, Window. L. H. Schafer. 1,942,776; Jan. 9.
Screw and operating mechanism therefor, Helicopter lifting. P. F. West. 1,942,888; Jan. 9.
Screw cap, Two-piece. J. C. Gibbs. 1,942,810; Jan. 9.
Seal for shafts, Pressure. M. Parker. 1,943,227; Jan. 9.
Seat for barber chair, Child's. A. A. and R. F. Mason. 1,942,717; Jan. 9.
Seat hanger. W. A. Gedris. 1,942,752; Jan. 9.
Self driving post. J. L. Hench. 1,943,018; Jan. 9.
Selvedge printing machine for printing trade-marks on cloth and the like. G. and C. L. Durrant. 1,942,749; Jan. 9.
Separator: *See*—
Centrifugal separator. Storage battery separator.
Servo-motor. E. J. McIlvried and J. C. Bittman. 1,943,029; Jan. 9.
Service station. G. L. Rosebrook. Des. 91,332–3; Jan. 9.
Sewer for sand. G. W. Richards. 1,943,188; Jan. 9.
Sewing machine for stitching over fastener means. L. Roseman. 1,942,903; Jan. 9.
Sewing machines, Darning foot for. W. L. Barron. 1,943,254; Jan. 9.
Sewing machines, Suspended resilient mounting for. C. F. Rubel. 1,943,189; Jan. 9.
Shade roller. H. W. Watts. 1,942,787; Jan. 9.
Shaded-pole induction motor. J. J. Gough. 1,943,270; Jan. 9.
Shafts for golf clubs and the like, Making. J. M. Oldham. 1,942,445; Jan. 9.
Shafts for golf clubs and the like, Making. L. A. Young. 1,942,465; Jan. 9.
Sharpener, Nail clipper. C. P. Murphy. 1,942,565; Jan. 9.
Sheet edge crimping apparatus. A. K. Taylor. 1,942,958; Jan. 9.
Sheet installation and producing the same, Flexible. G. D. Shaver. 1,942,733; Jan. 9.
Sheet metal container. C. Spaeth. 1,942,984; Jan. 9.
Sheets, Method and apparatus for withdrawing lowest. A. Winkler and M. Dünnebier. 1,942,527; Jan. 9.
Shielding system. E. R. Hentschel. 1,942,596; Jan. 9.
Shipping and display container. H. F. Coleman. 1,942,537; Jan. 9.
Shock absorber, Hydraulic. C. N. Mitchell. 1,942,658; Jan. 9.
Shoe. J. T. Kershaw. 1,942,652; Jan. 9.
Shoe and retaining means therefor. C. Miller. 1,942,486; Jan. 9.
Shoe, Athletic. I. Shapiro. 1,942,574; Jan. 9.
Shoe, Musical tap dancing. E. Landi. 1,943,222; Jan. 9.
Shoe, Pneumatic. A. Schäffer. 1,942,883; Jan. 9.
Shoe polishing rack. H. B. Nesbit. 1,942,725; Jan. 9.
Shoes, Making. M. O. Frost. 1,942,419; Jan. 9.
Short circuiter for electric motors. A. Borchers. 1,942,997; Jan. 9.
Short circuiter for repulsion induction motors. A. Borchers. 1,942,996; Jan. 9.
Shoulder brace. W. E. Marlar. 1,942,482; Jan. 9.
Siding material. F. H. Rahr. 1,942,449; Jan. 9.
Sign: *See*—
Illuminated sign. Vehicle top sign.
Signaling system. H. E. Hershey. 1,942,424; Jan. 9.
Silk with chrome dyestuffs, Printing. J. J. Roulet. 1,942,774; Jan. 9.
Sinker, Releasable. L. Semar. 1,943,192; Jan. 9.
Slicer, Food. C. Daum. 1,943,113; Jan. 9.
Slicer, Meat. E. G. Streckfuss. 1,942,520; Jan. 9.
Slicing machine. H. W. Mood. 1,942,563; Jan. 9.

Slicing machine. C. T. Walter. 1,942,991; Jan. 9.
Slip clamp. R. L. Jenner. 1,942,862; Jan. 9.
Snowplow, Motor. J. G. Gerrish. 1,942,809; Jan. 9.
Soap flakes, Drying. H. P. Forte. 1,942,418; Jan. 9.
Soap powder, Toilet. W. H. Alton. 1,943,253; Jan. 9.
Sod cutter. D. Junor and C. A. Sharp. 1,942,708; Jan. 9.
Spark plug. H. Rabezzana. 1,943,028; Jan. 9.
Sodium-para phenylphenate and making same. E. C. Britton. 1,942,800; Jan. 9.
Sols for clarifying liquids, Preparation of. C. Q. M. Campbell. 1,942,507; Jan. 9.
Sound reproducing machine. W. D. La Rue. 1,942,864; Jan. 9.
Spark plug. H. Rabezzana. 1,943,028; Jan. 9.
Speed and direction of movement of aircrafts and moving targets, Apparatus for determining the. A. Clemeuti. 1,942,536; Jan. 9.
Speed reducer. M. B. Benson. 1,942,794; Jan. 9.
Speeds, Differentiation of. T. E. Piazze. 1,943,039; Jan. 9.
Spindle for net making machines. Y. Okuma. 1,943,226; Jan. 9.
Spool for photographic films. T. G. Baxenden and J. R. Collyear. 1,942,951; Jan. 9.
Spool, Yarn. W. Bixby. 1,942,680; Jan. 9.
Spools, Construction of. T. G. Baxenden and J. R. Collyear. 1,942,952; Jan. 9.
Spot welding machine. M. S. Clark. Des. 91,316; Jan. 9.
Sprayer. R. C. Seyforth. 1,943,092; Jan. 9.
Spraying apparatus. A. G. Perkins. 1,942,876; Jan. 9.
Spring structure, Coiled. W. B. Foster. 1,943,067; Jan. 9.
Sprinkler, Lawn. E. L. Heverly and G. H. Hilgendorf. 1,943,073; Jan. 9.
Sprinkler, Water. M. C. Bersted. 1,942,895; Jan. 9.
Stabilizer, High frequency. L. A. Hyland. 1,942,602; Jan. 9.
Stand for fuel drums or the like. A. Bollard. Des. 91,311; Jan. 9.
Starches, dextrines, and British gums, Manufacturing modified. A. D. Fuller. 1,942,544; Jan. 9.
Starter, Engine. Y. Sekella. 1,942,573; Jan. 9.
Starting device and starting circuit. J. E. O. Louette. 1,943,182; Jan. 9.
Starting mechanism, Automatic. F. T. Christian. 1,942,591; Jan. 9.
Steam, Producing high-pressure. A. Huster. 1,942,861; Jan. 9.
Steel-trimming machine, Vertical automatic. Z. P. Candee. 1,943,107; Jan. 9.
Steering mechanism, Nonreversible. F. C. Craw. 1,942,472; Jan. 9.
Stepladder brace. N. L. Thrasher. 1,942,849; Jan. 9.
Stereotype printing plate. M. W. Brueshaber. 1,942,408; Jan. 9.
Stock rack. M. L. Engler and W. J. Breth. 1,942,639; Jan. 9.
Stockings on flat knitting machines, Knitting. W. Heinitz. 1,943,178; Jan. 9.
Stoker and firedoor, Combined. P. A. Ketchpel. 1,942,819; Jan. 9.
Stoker for coal stoves, Automatic. C. H. Strange. 1,942,947; Jan. 9.
Stopper, Bottle. E. F. Stephens. 1,942,845; Jan. 9.
Storage battery separator. E. W. Smith. 1,942,667–8; Jan. 9.
Stove, Hot blast. F. R. McGee. 1,942,762; Jan. 9.
Straightedge, Wall-paper trimmer's. F. E. and R. A. Edgren. 1,942,542; Jan. 9.
Straw dispenser, Vertically slotted. C. C. Suiter. 1,942,846; Jan. 9.
Stretcher, Curtain. A. C. Kulp. 1,942 821; Jan. 9.
Strip mill. W. C. Coryell. 1,943,005; Jan. 9.
Strips, Apparatus for tiering. J. T. Leach. 1,942,558; Jan. 9.
Stuffing device. J. A. Weiland. 1,943,197; Jan. 9.
Sugar dispenser. A. Asplund. 1,943,199; Jan. 9.
Sulphite pulp digester system. A. Christensen. 1,942,685; Jan. 9.
Superheater. A. Williams. 1,942,676; Jan. 9.
Support: *See*—
Body support. Portable boom support.
Plant support. Windshield support.
Support for concrete reenforcements. R. M. Neely. 1,942,566; Jan. 9.
Support for flexible hose. R. Ruemelin. 1,942,453; Jan. 9.
Surface switch. M. E. Henning. 1,942,697; Jan. 9.
Surgical instrument. J. W. O'Banion. 1,942,766; Jan. 9.
Switch: *See*—
Coin controlled switch. Fuse switch.
Electric switch. Surface switch.
Float operated switch. Thermostatic switch.
Switch and reset, Three position. M. E. Henning. 1,942,699; Jan. 9.
Switch for electric safety signals. O. Anderson. 1,942,739; Jan. 9.
Switch mechanism, Check controlled. V. Neumann. 1,942,443; Jan. 9.
Switch structure. M. E. Henning. 1,942,700; Jan. 9.
Switch with auxiliary circuit control, Float. M. E. Henning. 1,942 698; Jan. 9.
Syringe, Hypodermic. S. Kabnick. 1,943,120; Jan. 9.
Table: *See*—
Draftsman's table. Ironing table.
Folding table.
Take-up device for flexible conductors. A. McKesson. 1,943,134; Jan. 9.
Tank: *See*—
Concealed flush tank. Fabricated tank.
Telegraph regenerative repeater. E. P. Bancroft. 1,942,588; Jan. 9.
Telephone system. R. B. Ashbrook and A. M. Burnett. 1,942,404; Jan. 9.
Telephone system. F. Kessler, H. S. Deyes, and J. Scowcroft. 1,942,651; Jan. 9.
Telephone system. H. D. MacPherson. 1,943,130; Jan. 9.
Telephone system. W. C. Oakes. 1,942,487; Jan. 9.
Telephone system. R. F. Steblik. 1 942,671; Jan. 9.
Telephone system. J. Wicks. 1,942,462; Jan. 9.
Telephone transmission line. F. M. Crapo. 1,942,411; Jan. 9.
Television method and apparatus. J. V. L. Hogan and H. P. Donle. 1,943,238; Jan. 9.
Tennis racket. J. L. Kleinman. 1,942,479; Jan. 9.
Testing device. R. Schneider. 1,942,982; Jan. 9.
Tetrazoles, Preparing disubstituted. G. Scheuing and B. Walach. 1,943,148; Jan. 9.
Textile fabric. L. W. Griffis. Des. 91,321; Jan. 9.
Textile fabric or similar article. V. L. Bennett. Des. 91,310; Jan. 9.
Textile fabric or similar article. N. D. Levy. Des. 91,325; Jan. 9.
Textile fabric or similar article. W. Willheim. Des. 91,337–41; Jan. 9.
Textile materials, Feeding of. S. A. Welch, A. F. Guyler, J. T. Ashby, and W. H. Boaler. 1,942,524; Jan. 9.
Textile roll and making the same. C. K. Dunlap. 1,943,215; Jan. 9.
Theft preventive device for automobiles. G. T. Ellis. 1,943,216; Jan. 9.
Therapeutic apparatus. E. A. Buck and L. W. Morey. 1,942,914; Jan. 9.
Thermally operated device operating by expansion of air or other gas when heated. E. A. Lowe and J. R. Hamilton. 1,942,823; Jan. 9.
Thermometer. H. D. Bolton. 1,942,506; Jan. 9.
Thermometer. H. B. Brown. Des. 91,314; Jan. 9.
Thermometer. B. Noyes, jr. 1,942,517; Jan. 9.
Thermometer for measuring temperature of the skin. B. Noyes, jr. 1,942,516; Jan. 9.
Thermostatic gas burner. E. J. Te Pas. 1,943,045; Jan. 9.
Thermostatic switch. T. A. Schaefer. 1,942,664; Jan. 9.
Thread drawing device. N. Deutsch. 1,943,212; Jan. 9.
Ticket issuing and change giving machine. L. Mangham and O. B. Cottrell. 1,943,025; Jan. 9.
Tie rack. A. Falk. Des. 91,319; Jan. 9.
Time interval indicator. H. Heyesler. 1,942,754; Jan. 9.
Timepiece. E. T. Turney. 1,943,046; Jan. 9.
Tire. K. B. James. Des. 91,322; Jan. 9.
Tire head. W. G. Lerch. 1,943,272–5; Jan. 9.
Tire casings for vulcanization, Preparing. C. E. Bittaker. 1,942,797; Jan. 9.
Tire or similar article. J. F. Jones. Des. 91,323; Jan. 9.
Tobacco, Apparatus for hanging. G. D. Harris. 1,942,893; Jan. 9.
Tobacco for a tobacco cutting machine, Device for preparing raw. W. F. Schneider. 1,943,149; Jan. 9.
Tongs. J. P. Ratigan. 1,942,492; Jan. 9.
Tool: *See*—
Fire fighting tool. Fluid pressure tool.
Tool. C. C. Prescott. 1,942,447; Jan. 9.
Toothbrush. H. W. McIntyre. 1,943,225; Jan. 9.
Toothbrush. E. J. McWhirter. 1,942,931; Jan. 9.
Toothbrush. L. Ottenstroer. 1,942,933; Jan. 9.
Torque absorbing device. C. G. Wood. 1,942,677; Jan. 9.
Torque limiting coupling. A. L. Lee. 1,942,512; Jan. 9.
Torsional cross joint. E. K. Degener. 1,942,746; Jan. 9.
Toy. L. B. Holbrook. 1,942,894; Jan. 9.
Toy. C. J. McLeod. 1,943,129; Jan. 9.
Toy. Y. Mikamo and I. Koda. 1,942,719; Jan. 9.
Toy, Figure wheeled. H. R. Rahm. 1,942,772; Jan. 9.
Toy, Illuminated wheeled. J. E. Brubaker. 1,943,160; Jan. 9.
Toy, Mechanical. F. J. Mayer. 1,942,514; Jan. 9.
Tractor. E. McCormick and L. A. Dailey. 1,942,655; Jan. 9.
Tractor control. C. L. Best. 1,942,637; Jan. 9.
Tractor cranes, Attachment for. C. F. Ward. 1,943,196; Jan. 9.
Traffic controlling apparatus, Railway. B. E. O'Hagan. 1,942,614; Jan. 9.
Train pipe connecter, Automatic. J. Robinson. 1,942,938; Jan. 9.
Train pipe connecter, Automatic. J. Robinson. 1,942,940–1; Jan. 9.
Train pipe coupling head, Automatic. J. Robinson. 1,942,939; Jan. 9.
Transmission. C. H. Barton. 1,942,633; Jan. 9.
Transmission clutch, Free wheeling. W. F. Smith. 1,942,669; Jan. 9.
Transmission control in signaling systems. B. G. Bjornson and D. Mitchell. 1,943,104; Jan. 9.
Trap. P. F. Harris. 1,943,177; Jan. 9.
Treating apparatus. C. Herrmann. 1,943,072; Jan. 9.
Trees from cuttings, Propagation of. R. H. McKee. 1,943,030; Jan. 9.
Truck. C. W. Meyers. 1,942,562; Jan. 9.
Tube: *See*—
Collapsible tube. Light-sensitive tube.
Dispensing tube. Photo-electric tube.
Tube electrode receptacle, Luminescent. C. M. H. Nelson. 1,942,724; Jan. 9.

Tube expander. F. C. Naber. 1,942,612; Jan. 9.
Tube forming machine. J. L. Adams, jr. 1,942,466; Jan. 9.
Tubes, Making seamless. J. J. Dunn and P. C. Patterson. 1,942,541; Jan. 9.
Tubing or pipe, Producing. C. G. Naylor. 1,943,035; Jan. 9.
Tubular heating element. T. Griswold, jr. 1,942,694; Jan. 9.
Tunnel excavating machine. G. J. Benson. 1,943,103; Jan. 9.
Turbine. F. Ljungström. 1,942,608; Jan. 9.
Turbine, Hydraulic. G. A. Biggs. 1,942,589; Jan. 9.
Turbine, Hydraulic. G. A. Biggs. 1,942,995; Jan. 9.
Typewriting machine. C. E. Burns. 1,942,999; Jan. 9.
Typewriting machine. G. G. Going. 1,943,015; Jan. 9.
Unloader for compressors, Automatic. R. F. Lindsayo. 1,942,433; Jan. 9.
Vacuum condensation system. C. D. Breese. 1,943,105; Jan. 9.
Valve: *See*—
Flush valve.
Light valve.
Mixing valve.
Piston valve.
Valve. J. J. Ferlin and H. W. Goetz. 1,942,417; Jan. 9.
Valve. W. L. Hunter and H. H. Weining. 1,942,426; Jan. 9.
Valve apparatus for locomotive or other steam engines, Regulating. R. E. Kimberley. 1,942,711; Jan. 9.
Valve for clothes steaming and pressing apparatus. H. G. Sutton. 1,942,987; Jan. 9.
Valve for inflatable articles. F. Fenton. 1,942,959; Jan. 9.
Valve gear for fluid pressure units. V. W. Holmes. 1,943,118; Jan. 9.
Valve mechanism. J. W. Sandlin. 1,942,616; Jan. 9.
Valve mechanism for main and pilot burners. E. J. Horton. 1,943,075; Jan. 9.
Vaporizer for refrigerators. A. R. Cosgrove. 1,943,006–7; Jan. 9.
Varnish composition and shellac substitute. J. B. Dietz and E. F. Oeffinger. 1,942,413; Jan. 9.
Vegetables and the like materials, Device for subdividing. J. Rathmill. 1,942,773; Jan. 9.
Vehicle, Dumping. C. F. Higgins. Re19,042; Jan. 9.
Vehicle top sign. F. J. O'Connor. 1,942,444; Jan. 9.
Vending and weighing machine casing, Combined. N. E. May. Des. 91,326; Jan. 9.
Vending machine. E. Mihalek. 1,942,440; Jan. 9.
Venting device for liquid reservoirs. E. Schneider. 1,942,780; Jan. 9.
Vibrating apparatus. E. B. Tolman, jr. 1,942,581; Jan. 9.
Vibrator. W. L. Keefer. 1,943,220; Jan. 9.
Vinyl polymer, Low viscosity. H. J. Barrett. 1,942,531; Jan. 9.
Viscose solutions while applying long precipitating distances, Device for spinning. J. Voss. 1,942,990; Jan. 9.
Viscosimeter. C. E. Fawkes. 1,942,920; Jan. 9.
Visor, Adjustable. W. S. Saunders. 1,942,663; Jan. 9.
Voltage regulating transformer. O. Löbl. 1,942,481; Jan. 9.
Voltage regulation system. C. F. Cairns. 1,942,535; Jan. 9.
Vulcanization accelerator. E. Zaucker, M. Bogeman, and L. Orthner. 1,942,790; Jan. 9.
Vulcanizing machine. G. H. Wheatley. 1,943,101; Jan. 9.
Wagon and gate fastener. D. S. Shepard. 1,942,732; Jan. 9.
Wardrobe, Collapsible. A. Stone. 1,943,044; Jan. 9.
Washing machine, Auto top. O. M. Kiggins. 1,942,653; Jan. 9.
Water cooler. L. L. Austin. 1,942,741–2; Jan. 9.
Water deconcentration system, Automatic boiler. T. B. Allardice and T. G. Coghlan. 1,942,467; Jan. 9.
Waterproofing solution for stuccoed surfaces. W. B. Houston. 1,942,601; Jan. 9.
Water regulator. F. L. Badgett. 1,942,635; Jan. 9.
Water softening apparatus. A. J. Dotterweich. 1,942,807; Jan. 9.
Water softening apparatus. A. J. Dotterweich. 1,942,808; Jan. 9.
Wax-like substances, Production of high quality. W. Pungs and M. Jahrstorfer. 1,942,833; Jan. 9.
Web tension controlling mechanism for use with rotary printing machines. A. J. Horton. 1,942,964; Jan. 9.
Weed burner. G. E. Guttormson. 1,943,218; Jan. 9.
Welding. W. Kreutz. 1,943,123; Jan. 9.
Welding, Electric. G. A. Hughes. 1,943,259; Jan. 9.
Wheel: *See*—
Demountable wheel.
Wheel hub. W. N. Booth. 1,943,158; Jan. 9.
Wheel suspension for vehicles. L. E. Holman. 1,942,644; Jan. 9.
Winding means for spring motors. W. G. Beck. 1,942,505; Jan. 9.
Window bracket. W. H. Schmitt. 1,942,665; Jan. 9.
Windshield cleaner arm. W. Paulus. 1,942,661; Jan. 9.
Windshield heater. H. Hueber and E. C. Horton. 1,942,647; Jan. 9.
Windshield support. T. B. Nisbet. Re19,044; Jan. 9.
Wire and producing same, Woven. E. D. Reynolds. 1,942,451; Jan. 9.
Wire grip. J. P. Whalan and L. T. Harkness. 1,942,625; Jan. 9.
Wireless transmission of telegraph impulses. D. Thierbach. 1,942,580; Jan. 9.
Wood chipping machine. C. Wigger and R. Bomcke. 1,942,675; Jan. 9.
Wood, fiber board, wood-pulp, wood-fiber, and the like, Treatment of. E. E. M. Payne. 1,942,977; Jan. 9.
Work positioning means. A. H. Narrow. 1,942,878; Jan. 9.
Wrapper with built-in receptacle, Mailing. M. M. Heyman. 1,943,074; Jan. 9.
Wrench. F. W. Fromme. 1,942,640; Jan. 9.
Yarn control means. F. Klein. 1,942,511; Jan. 9.

CLASSIFICATION OF PATENTS

ISSUED JANUARY 9, 1934

NOTE.—First number=class, second number=subclass, third number=patent number

2— 12: 1,943,277
14: 1,942,394
42: 1,942,679
44: 1,942,482
254: 1,942,410
4— 68: 1,943,041
157: 1,942,905
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12—129.1: 1,943,244
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117.1: 1,943,045
117.2: 1,943,075
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161— 1: 1,942,409
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176— 126: 1,942,637
177— 7: 1,942,811
311: 1,942,424
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352: 1,942,421

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178— 6: 1,943,238
44: 1,942,488
70: 1,942,588
179— 1.5: 1,942,461
18: 1,942,462
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63: 1,942,496
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202— 17: 1,942,978
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204— 1: 1,942,469
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205— 4: 1,943,032
206— 31: 1,943,214
41: 1,943,204
44: 1,942,537
46: 1,942,673
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48: 1,943,052
209— 111: 1,943,278
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210— 24: 1,942,807
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217— 12: 1,942,970
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19: 1,943,062
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257— 136: 1,942,432
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170: 1,942,889
261— 13: 1,942,876
28: 1,943,224
49: 1,943,062
92: 1,942,502
263— 9: 1,942,515
15: 1,942,682
19: 1,942,762
264— 8: 1,943,069
265— 11: 1,942,920
18: 1,942,962
49: 1,942,709
266— 1: 1,942,897
268— 59: 1,943,042
270— 18: 1,943,264
271— 29: 1,942,527
56: 1,942,490
272— 31: 1,942,514
55: 1,942,396
273— 33: 1,942,672
66: 1,942,959
73: 1,942,479
77: 1,942,434
1,943,066
81: 1,942,922
89: 1,942,429
97: 1,942,719
108: 1,943,095
119: 1,942,476
121: 1,942,880
1,942,908
145: 1,942,932
274— 1: 1,943,038
10: 1,942,613
1,942,864
280— 49: 1,943,023
53: 1,942,562
280— 124: 1,942,644
158: 1,942,655
281— 40: 1,942,399
285— 58: 1,942,938
1,942,939
1,942,940
1,942,941
84: 1,942,829
146: 1,942,518
286— 6: 1,942,567
287— 109: 1,942,661
125: 1,942,595
288— 1: 1,942,489
1,942,703
1,942,704
1,942,705
1,943,122
290— 38: 1,942,591
1,943,182
291— 32: 1,942,921
292— 76: 1,942,731
167: 1,942,533
242: 1,942,966
259: 1,942,732
263: 1,942,665
275: 1,942,860
294— 87: 1,943,004
296— 84: R. 19,044
97: 1,942,563
298— 11: R. 19,042
22: 1,942,402
1,943,050
299— 23: 1,942,780
52: 1,943,152
88: 1,943,092
126: 1,943,073
127: 1,942,395
301— 6: 1,943,151
105: 1,943,158
108: 1,943,159
302— 66: 1,942,503
304— 20: 1,943,228
305— 8: 1,942,475
10: 1,942,141
306— 11: 1,943,163
19: 1,942,557
308— 11: 1,942,834
41: 1,943,167
43: 1,942,963
60: 1,943,142
134: 1,943,227
180: 1,942,954
1,943,054
203: 1,943,049
309— 12: 1,942,960
29: 1,942,967
43: 1,942,968
312— 76: 1,942,846
95: 1,942,440
144: 1,943,044

U. S. GOVERNMENT PRINTING OFFICE: 1934

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abraham & Straus, Inc., Brooklyn, N. Y. Shoes. Serial No. 342,684; Jan. 16. Class 39.

Air Ice Research & Development Corp., Los Angeles, Calif. Gasifiable refrigerants in solid form. Serial No. 338,303; Jan. 16. Class 6.

Alessio, Frank, Chicago, Ill. Olive oil, canned tomatoes, etc. Serial No. 342,514; Jan. 16. Class 46.

Alfreda, Inc., New York, N. Y. Hats. Serial No. 343,429; Jan. 16. Class 39.

Allied Battery Corporation, Dayton, Ohio. Storage batteries. Serial No. 344,034; Jan. 16. Class 21.

American Bemberg Corporation. (See Bemberg, I. P., Aktiengesellschaft, assignor.)

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Liquid chemical composition. Serial No. 343,905; Jan. 16. Class 6.

Art Metal Company, The, Cleveland, Ohio. Electric table lamps, floor and ceiling lamps. Serial No. 340,301; Jan. 16. Class 21.

Associated Perfumers Incorporated, The, West Haven, Conn. Creams, deodorants, depilatories, etc. Serial No. 342,869; Jan. 16. Class 6.

Baker & Company, Inc., Newark, N. J. Dental alloy. Serial No. 337,379; Jan. 16. Class 44.

Baker & Company, Inc., Newark, N. J. Electrodepositing solution for dentures. Serial No. 337,380; Jan. 16. Class 6.

Barnes-Noble Company, Inc., Minneapolis, Minn. Cleanser and scouring compound. Serial No. 336,058; Jan. 16. Class 4.

Barrett Company, The, New York, N. Y. Roof coating. Serial No. 340,862; Jan. 16. Class 12.

Bavaria-Und St. Pauli-Brauerei, Hamburg, Germany. Malt beverages. Serial No. 344,422; Jan. 16. Class 48.

Bavaria-Und St. Pauli-Brauerei, Hamburg, Germany. Malt beverages. Serial Nos. 344,424–5; Jan. 16. Class 48.

Beauty Utilities, Inc., Newark, N. J., and Dover, Del. Permanent waving and hair curling machines and supplies therefor. Serial No. 342,104; Jan. 16. Class 44.

Bemberg, I. P., Aktiengesellschaft, Wuppertal-Oberbarmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Piece goods of artificial fibre. Serial No. 329,020; Jan. 16. Class 42.

Bendix Stromberg Carburetor Company, South Bend, Ind. Carburetors. Serial No. 339,702; Jan. 16. Class 23.

Benedict-Swenson Co., Los Angeles, Calif. Wines. Serial No. 344,697; Jan. 16. Class 47.

Berdy's Food Products Corp., New York, N. Y. Gherkins, strawberry preserves. Serial No. 319,305; Jan. 16. Class 46.

Bilhuber, E., Inc., Jersey City, N. J. Medicinal preparation for the treatment of disturbances of menstruation. Serial No. 343,849; Jan. 16. Class 6.

Bishop, Storrs M., Schenectady, N. Y. Game to be played by two people. Serial No. 341,623; Jan. 16. Class 22.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. Serial No. 343,201; Jan. 16. Class 42.

B-OK Co. (See Gallardo, Ernesto V.)

Bolland, Albert J., Garrett, Ind. Liniment. Serial No. 342,728; Jan. 16. Class 6.

Bowler Brewing Company, Worcester, Mass. Malt beverages. Serial No. 343,910; Jan. 6. Class 48.

Bover, Frank G., Kansas City, Mo. Tooth powder. Serial No. 342,124; Jan. 16. Class 6.

Brandt, Jos., & Co., New York, N. Y. Cellulose filaments, flat straws, and yarns. Serial No. 328,157; Jan. 16. Class 43.

Buromin Company, The, Pittsburgh, Pa. Chemical for industrial, laundry, and semi-industrial use. Serial No. 338,357; Jan. 16. Class 6.

Carbide and Carbon Chemicals Corporation, New York, N. Y. Paints, paint enamels, varnishes, etc. Serial No. 337,247; Jan. 16; Class 16.

Carstairs, D. H. & J. H., Philadelphia, Pa. Whiskey. Serial No. 343,160; Jan. 16. Class 49.

Case, J. A., Inc., Denver, Colo. Soluble tooth powder. Serial No. 344,221; Jan. 16. Class 6.

Celanese Corporation of America, New York, N. Y. Piece goods of cellulose derivatives. Serial No. 344,045; Jan. 16. Class 42.

Chattanooga Medicine Company, The, Chattanooga, Tenn. Liver cathartic and laxative medicine. Serial No. 342,644; Jan. 16. Class 6.

Cincinnati Oven Company. (See Houlis, Louis D.)

Cloverdale Spring Co., Baltimore, Md. Malt beverage. Serial No. 333,115; Jan. 16. Class 48.

Coast 2 Coast Oil Company, Cleveland, Ohio. Lubricating oils and greases. Serial No. 343,586; Jan. 16. Class 15.

Cohen, Sidney, doing business as Morris Cohen, New York, N. Y. Canned food products. Serial No. 342,791; Jan. 16. Class 46.

Columbia Protektosite Co., Inc., Carlstadt, N. J. Goggles and goggle lenses. Serial No. 343,641; Jan. 16. Class 26.

Connors, William J., San Jose, Calif. Bread. Serial No. 343,597; Jan. 16. Class 46.

Courvoisier, Limited, Jarnac, France. Brandies. Serial No. 343,276; Jan. 16. Class 49.

Craig, Celia, doing business as Craig Craft, Evanston, Ill. Cross-word puzzle game played with cards, pieces, and definitions. Serial No. 335,858; Jan. 16. Class 22.

Crookes Laboratories, Incorporated, The, New York, N. Y. Medicinal preparation. Serial No. 342,965; Jan. 16. Class 6.

Crown Overall Mfg. Co., The, Cincinnati, Ohio. Overalls, trousers, and work shirts. Serial No. 342,840; Jan. 16. Class 39.

Curtiss Aerocar Company, Inc., Coral Gables, Fla. Trailers. Serial No. 344,525; Jan. 16. Class 19.

Dall, Anna R., New York, N. Y. Dolls, toy figures, and the like. Serial No. 344,430; Jan. 16. Class 22.

De Cordova, Horacio, New York, N. Y. Rum, brandy, cognac, etc. Serial No. 343,324; Jan. 16. Class 49.

Delbeck & Cie, Societe à Responsabilite Limitee, Reims, France. Champagne wines. Serial No. 344,526; Jan. 16. Class 47.

Dick, A. B., Company, Chicago, Ill. Duplicating machine ink. Serial No. 343,375; Jan. 16. Class 11.

Distillers Products Corporation of America, New York, N. Y. Wine. Serial No. 344,621; Jan. 16. Class 47.

Distillers Products Corporation of America, New York, N. Y. Beer and ale. Serial No. 344,622; Jan. 16. Class 48.

Drexell Products Corp., Brooklyn, N. Y. Foot comforter cream. Serial No. 341,942; Jan. 16. Class 6.

Drexell Products Corp., Brooklyn, N. Y. Window cleaner compound, pumice soap, shaving cream, and scouring powder. Serial No. 341,943; Jan. 16. Class 4.

Ethical Laboratories, Brooklyn, N. Y. Antiseptics. Serial No. 334,675; Jan. 16. Class 6.

Exhibit Supply Company. (See Meyer, John F.)

Filene's, Wm., Sons Company, Boston, Mass. Coats. Serial No. 344,491; Jan. 16. Class 39.

Filippone, B., & Co., assignor to B. Filippone & Co. Inc., Passaic, N. J. Canned tuna fish, canned salmon, cheese, rice, etc. Serial No. 319,860; Jan. 16. Class 46.

Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 343,503; Jan. 16. Class 49.

Fratelli Ferrero di Riccardo, Turin, Italy. Vermuth. Serial No. 342,902; Jan. 16. Class 49.

Freiberg & Workum Co., The, Cincinnati, Ohio. Gin. Serial No. 343,444; Jan. 16. Class 49.

Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Wines. Serial No. 344,590; Jan. 16. Class 47.

Gabriel, George W., New York, N. Y. Women's silk underwear. Serial No. 343,171; Jan. 16. Class 39.

Gallardo, Ernesto V., doing business as B-OK Co., New York, N. Y. Preparation for the treatment of indigestion. Serial No. 337,780; Jan. 16. Class 6.

Gardner, Rufus F., Rocky Mount, Va. Hair preparation for restoring grey hair. Serial No. 343,604; Jan. 16. Class 6.

Gates, Frank D., doing business as Rockwell Laboratories, Kansas City, Mo. Insecticides. Serial No. 342,802; Jan. 16. Class 6.

General Alloys Company, Boston, Mass. Metal pipe fittings, flush valves, gate valves, etc. Serial No. 342,390; Jan. 16. Class 13.

General Dyestuff Corporation, New York, N. Y. Dyestuffs. Serial No. 344,088; Jan. 16. Class 6.

General Mills, Inc., Minneapolis, Minn. Cereal products and flour. Serial No. 343,605; Jan. 16. Class 46.

Geophysical Service Inc., Dallas, Tex. Oscillographs, seismometers, galvanometers. Serial No. 342,420; Jan. 16. Class 26.

Gilbert & Barker Manufacturing Company, West Springfield, Mass. Electric motors and switches, transformers, radio filters, etc. Serial No. 343,449; Jan. 16. Class 21.

Gobelin Company, Inc., The, Cambridge, Mass. Candy. Serial No. 343,035; Jan. 16. Class 46.

Goodson, Esther F., doing business as Kent Hygienic Laboratory, Grand Rapids, Mich. Antiseptic jelly used in feminine hygiene. Serial No. 342,433; Jan. 16. Class 6.

Gottfried-Huebschman Co., The, Cleveland, Ohio. Ladies' dresses. Serial No. 343,647; Jan. 16. Class 39.

Gouldon, Hilda, New York, N. Y. Face powder, hair tonic, rouge, etc. Serial No. 343,238; Jan. 16. Class 6.

Griffith, Leonard E., doing business as Griffith Drug Company, Townsend, Mont. Medicinal preparation. Serial No. 343,401; Jan. 16. Class 6.

Hays, Mrs. Hiram J., New Rochelle, N. Y. Jars of preserves. Serial No. 340,590; Jan. 16. Class 46.

Hepworth & Grandage Limited, Bradford, England. Pistons and valves for internal-combustion engines. Serial No. 343,653; Jan. 16. Class 23.

Hercules Products & Distilling Corporation, Brooklyn, N. Y. Gin. Serial No. 343,654; Jan. 16. Class 49.

Hercules Products & Distilling Corporation, Brooklyn, N. Y. Gin. Serial Nos. 343,733–4; Jan. 16. Class 49.

Hercules Products & Distilling Corporation, Brooklyn, N. Y. Gin. Serial No. 344,093; Jan. 16. Class 49.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Hickey-Freeman Company, Rochester, N. Y. Suits, topcoats, and overcoats. Serial No. 344,652; Jan. 16. Class 39.
Hill-Independent Mfg. Co., Philadelphia, Pa. Hand stamps. Serial Nos. 343,679–80; Jan. 16. Class 37.
Hill-Independent Mfg. Co., Philadelphia, Pa. Hand stamps. Serial Nos. 343,682–3; Jan. 16. Class 37.
Hope, Inc., New York, N. Y. Laxatives and denture suction powders. Serial No. 343,685; Jan. 16. Class 6.
Hosmer, G. A., Company, Buffalo, N. Y. Dressing for belts, rope, and cable drives. Serial No. 342,585; Jan. 16. Class 4.
Houlis, Louis D., doing business as Cincinnati Oven Company, Batavia, Ohio. Ovens. Serial No. 343,039; Jan. 16. Class 34.
Ingraos, Joseph, doing business as Sphinx Laboratory, New Orleans, La. Preparation for the treatment of hay fever. Serial No. 344,154; Jan. 16. Class 6.
International Mate Company, Inc., New York, N. Y. Mate tea. Serial No. 344,056; Jan. 16. Class 46.
International Nickel Company, Inc., The, New York, N. Y. Pails made of metal. Serial No. 332,718; Jan. 16. Class 2.
Interstate Dental Company, Inc., New York, N. Y. Grinding or cutting points or wheels or discs such as are used by dentists. Serial No. 343,825; Jan. 16. Class 44.
Jaburg Brothers, Inc., New York, N. Y. Tables, stands, chairs, racks, and counters, etc. Serial No. 343,285; Jan. 16. Class 32.
James, Leonard, Company, San Saba, Tex. Antiseptic liniment and veterinary liniment preparations. Serial No. 343,829; Jan. 16. Class 6.
Jaynell Manufacturing Company, Chicago, Ill. Pyrophoric lighters. Serial No. 344,096; Jan. 16. Class 34.
Johnson & Morris, Richmond, Va. Lubricating oils and greases. Serial No. 340,166; Jan. 16. Class 15.
Jones Dairy Farm, Inc., Fort Atkinson, Wis. Sliced bacon. Serial No. 337,042; Jan. 16. Class 46.
Kabushiki-Kaisha Takeda Chobei Shoten, Osaka, Japan. Diuretics and heart tonic. Serial No. 341,293; Jan. 16. Class 6.
Kent Hygienic Laboratory. (See Goodson, Esther F.)
Kraus, Herman, New York, N. Y. Gin, whiskey, rum, and brandy. Serial No. 342,352; Jan. 16. Class 49.
Le Blanc, D. H., Long Lake, N. Y. Preparation for the treatment of the hair and scalp. Serial No. 343,830; Jan. 16. Class 6.
Levy Bros. & Adler Rochester, Incorporated, Rochester, N. Y. Suits. Serial No. 343,689; Jan. 16. Class 39.
Levy Bros. & Adler Rochester, Incorporated, Rochester, N. Y. Suits. Serial No. 343,691; Jan. 16. Class 39.
Lilly, Ely, and Company, Indianapolis, Ind. Hypnotic medicinal tablets. Serial No. 338,934; Jan. 16. Class 6.
Long, Caroline E., Dayton, Ohio. Hand lotion. Serial No. 342,809; Jan. 16. Class 6.
Los Angeles Soap Company, Los Angeles, Calif. Soap. Serial No. 344,198; Jan. 16. Class 4.
Low, Robertson & Company, Limited, Leith, Scotland. Whisky. Serial No. 343,997; Jan. 16. Class 49.
Magic-Lax Corp., Newark, N. J. Chocolate laxatives. Serial No. 341,977; Jan. 16. Class 6.
Majestic New York, Incorporated, New York, N. Y. Gas stoves, ranges, and ovens. Serial No. 344,339; Jan. 16. Class 34.
Mandel & Cohen, New York, N. Y. Hats, shoes, hosiery, etc. Serial No. 343,618; Jan. 16. Class 39.
Manhattan Shirt Co., The, New York, N. Y. Underwear, shirts, pajamas, etc. Serial No. 344,103; Jan. 16. Class 39.
Marvin & Snead, Inc., New York, N. Y. Wines. Serial No. 344,454; Jan. 16. Class 47.
McConnell, George L., Berkeley, Calif. Paints. Serial No. 343,834; Jan. 16. Class 16.
McConnell, Thomas J. L., New York, N. Y. Fabrics, toweling, napkins, etc. Serial No. 342,916; Jan. 16. Class 42.
McGavin, Alexander, & Co. Limited, Glasgow, Scotland. Whisky. Serial No. 343,660; Jan. 16. Class 49.
McKay, W. E., & Co., Inc., New York, N. Y. Fabrics of silk, cotton, rayon, etc. Serial No. 342,701; Jan. 16. Class 42.
Melhado, Edmund, & Co., Inc., New York, N. Y. Rum and other spiritous liquors. Serial No. 343,901; Jan. 16. Class 49.
Meyer, John F., doing business as Exhibit Supply Company, Chicago, Ill. Coin-controlled amusement apparatus. Serial No. 344,437; Jan. 16. Class 22.
Meyer, John F., doing business as Exhibit Supply Company, Chicago, Ill. Coin-controlled amusement apparatus. Serial No. 344,726; Jan. 16. Class 22.
Modern Miller, The, Chicago, Ill. Weekly publication. Serial No. 343,927; Jan. 16. Class 38.
Moorman, Albert S., West Englewood, N. J. Pin board games. Serial No. 344,455; Jan. 16. Class 22.
Morgan, Nancy A., M., and A., doing business as Morgan & Morgan, Munhall, Pa. Pharmaceutical preparation. Serial No. 341,187; Jan. 16. Class 6.
Myers, Fred. L., & Son, Kingston, Jamaica. Rum. Serial No. 344,340; Jan. 16. Class 49.
N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electromedical apparatus. Serial Nos. 344,342–7; Jan. 16. Class 44.
National Enameling and Stamping Company, Milwaukee, Wis. Woven wicks. Serial No. 344,348; Jan. 16. Class 34.
National Tire Stores, Inc., Denver, Colo. Tires and inner tubes, patches, etc. Serial No. 341,298; Jan. 16. Class 35.
National Washboard Company, Chicago, Ill. Ironing tables. Serial Nos. 344,796–8; Jan. 16. Class 24.
Neo Brush Holder Corporation, Spokane, Wash. Floor brooms and brushes, dusters, and brush-handle holders. Serial No. 334,265; Jan. 16. Class 29.
Nestle's Milk Products, Inc., New York, N. Y. Evaporated and condensed milk. Serial No. 340,924; Jan. 16. Class 46.
New England Importation Company, Boston, Mass. Antipasto, cheese, capers, etc. Serial No. 343,299; Jan. 16. Class 46.
Nyanza Color & Chemical Co., New York, N. Y. Compound used as a moisture producing agent. Serial No. 343,518; Jan. 16. Class 6.
Ortolana Company. (See Sions, Harry A.)
Perrine Quality Products Corporation, Waltham, Mass. Storage batteries and their parts. Serial No. 344,003; Jan. 16. Class 21.
Pharmedic Corporation, New York, N. Y. Medicinal preparation for treatment of headaches. Serial No. 343,837; Jan. 16. Class 6.
Phoenix Brewing Company, Bay City, Mich. Beer. Serial No. 344,441; Jan. 16. Class 48
Pinaud, Incorporated, New York, N. Y. Liquid for use on the hair. Serial No. 341,665; Jan. 16. Class 6.
Pitts, Jay F., Chicago, Ill. Broilers, gridirons, griddles, etc. Serial No. 343,302; Jan. 16. Class 13.
Plough, Inc., Memphis, Tenn. Medicinal preparation. Serial Nos. 343,874–5; Jan. 16. Class 6.
Poythress, Wm. P., & Co., Inc., Richmond, Va. Analgesic and antipyretic preparation for pain and fever. Serial No. 343,789; Jan. 16. Class 6.
Poythress, Wm. P., & Co., Inc., Richmond, Va. Preparation for the treatment of nervous and undernourishment disorders. Serial No. 343,791; Jan. 16. Class 6.
Propho-San Laboratories. (See Richards, Orren C.)
Reefer's No-Moth, Inc., New York, N. Y. Preparation for the destroying of moth larvæ and eggs. Serial No. 332,081; Jan. 16. Class 6.
Regent Paint & Varnish Corp., Jersey City, N. J. Paint, paint enamel, and varnish. Serial No. 343,881; Jan. 16. Class 16.
Richards, Orren C., doing business as Propho-San Laboratories, Portland, Oreg. Prophylactic jelly for feminine hygiene. Serial No. 330,728; Jan. 16. Class 6.
Rockwell Laboratories. (See Gates, Frank D.)
Saliver, Inc., Seattle, Wash. Medicinal oil. Serial No. 342,927; Jan. 16. Class 6.
Saputo, Luigi, doing business as West New York Grocery Co., West New York, N. J. Olive oil. Serial No. 340,242; Jan. 16. Class 46.
Schultz, William L., New York, N. Y. Soaps. Serial Nos. 344,009–10; Jan. 16. Class 4.
Schwab, Martin C., Chicago, Ill. Shampoo. Serial No. 343,628; Jan. 16. Class 6.
Schwartz Merchandise Corporation, New York, N. Y. Dental powder. Serial No. 338,890; Jan. 16. Class 6.
Sions, Harry A., doing business as Ortolana Company, Philadelphia, Pa. Vegetable salad oil. Serial No. 344,607; Jan. 16. Class 46.
Societe Anonyme Champagne Ernest Irroy, Reims, France. Champagne and sparkling wines. Serial No. 344,015; Jan. 16. Class 47.
Societe Anonyme des Produits Marnier-La Postolle, Paris, France. Brandies. Serial No. 343,523; Jan. 16. Class 49.
Sphinx Laboratory. (See Ingraos, Joseph.)
Spooner, Inc., New York, N. Y. Rouge, perfume, hair tonic, etc. Serial No. 344,067; Jan. 16. Class 6.
Stahl-Meyer, Inc., New York, N. Y. Sausages. Serial No. 342,203; Jan. 16. Class 46.
Stalleri Company, Philadelphia, Pa. Vaginal antiseptic jelly, powder, and antiseptic suppositories; and preparation for headaches, etc. Serial No. 343,801; Jan. 16 Class 6.
Standard Brands Incorporated, New York, N. Y. Amylodextrin malt mixture. Serial No. 342,625; Jan. 16. Class 46.
Standard Musical String & Mfg. Corp., New Brunswick, N. J. Strings for stringed musical instruments. Serial No. 341,593; Jan. 16. Class 36.
Stein, Hall & Company, Inc., New York, N. Y. Artificial silk sizing. Serial No. 343,192; Jan. 16. Class 6.
Sutton, Leon & Joseph, New York, N. Y. Piece laces. Serial No. 343,833; Jan. 16. Class 42.
Tabin, Picker & Co., Chicago, Ill. Dresses, frocks, and uniforms. Serial No. 344,813; Jan. 16. Class 39.
Taylor, W. A., & Co., New York, N. Y. Olive oil. Serial No. 341,215; Jan. 16. Class 46.
Teck Publications, Inc., New York, N. Y. Periodicals. Serial No. 341,817; Jan. 16. Class 38.
Thermadjust Corporation, Newark, N. J. Unit apparatus for conditioning air. Serial No. 344,367; Jan. 16. Class 34.
Tonic Mesh Company, Bayville, N. J. Wash cloths. Serial No. 336,844; Jan. 16. Class 42.

United Distillers Limited, Vancouver, British Columbia, Canada. Gin. Serial No. 343,417; Jan. 16. Class 49.
United Distillers Limited, Vancouver, British Columbia, Canada. Rum, whiskey, and gin. Serial No. 343,422; Jan. 16. Class 49.
United Distillers Limited, Vancouver, British Columbia, Canada. Gin. Serial No. 343,424; Jan. 16. Class 49.
United Distillers & Winers, Inc., Detroit, Mich. Whiskies and other potable distilled alcoholic liquors. Serial No. 343,713; Jan. 16. Class 49.
Uzit, Michael L., doing business as Usit Clay Products Co., Chicago, Ill. Polishes, washing compounds, paint cleaning compounds, etc. Serial No. 342,988; Jan. 16. Class 4.
Ven-Ite Company, Incorporated, Philadelphia, Pa. Plastic material. Serial No. 343,264; Jan. 16. Class 12.
Victorius, M. L., & Co., Inc., New York, N. Y. Hosiery. Serial No. 344,122; Jan. 16. Class 39.
Weber, Jules, Inc., New York, N. Y. Coffees, teas, capers, etc. Serial No. 336,802; Jan. 16. Class 46.
Welsh-Hartman Company, St. Louis, Mo. Baby carriages, strollers, and gocarts. Serial No. 340,663; Jan. 16. Class 19.
West New York Grocery Co. (See Saputo, Luigi.)
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. Serial Nos. 338,550–1; Jan. 16. Class 15.
Windsor-Lloyd Products, Inc., Wilmington, Del. Automobile door lock and latch handles. Serial No. 341,181; Jan. 16. Class 25.
Winship, Charles N., doing business as Winship, Bolt & Co., Wakefield, Mass. Pull-over garment for protecting the hips and thighs. Serial No. 344,243; Jan. 16. Class 39.
Woodwind Company, The, New York, N. Y. Clarinets, saxophones, and parts therefor. Serial No. 330,003; Jan. 16. Class 36.
World Specialties, Portland, Maine. Polishing cloths or pads and a powdered compound for cleaning and polishing. Serial No. 337,058; Jan. 16. Class 4.
Wróblewski, David, doing business as D. Wróblewski, Brooklyn, N. Y. Tonic for enriching the blood. Serial No. 340,502; Jan. 16. Class 6.
Wu Kong Laboratories, Inc., Detroit, Mich. Medicinal compounds. Serial No. 342,540; Jan. 16. Class 6.
York Razor Blade Company, Inc., Passaic, N. J. Razor blades. Serial No. 340,937; Jan. 16. Class 23.
Zimmerman, David, Brooklyn, N. Y. Title of a monthly column. Serial No. 342,373; Jan. 16. Class 38.
Zweifel, Alfred, Malaga-Kellerelen A. G., Lenzburg, Switzerland. Whiskey, rum, gin, etc. Serial No. 342,935; Jan. 16. Class 49.

LIST OF REGISTRANTS OF TRADE-MARKS

Ace Products Corporation, The, Cincinnati, Ohio. Electrical refrigerators. 309,549; Jan. 16; Serial No. 331,395; published Nov. 7, 1933. Class 31.
Ajed Textiles. (See Reanik, Jacob C.)
Alco-Zander Company, Philadelphia, Pa. Suits, coats, pants, vests, etc. 309,483; Jan. 16; Serial No. 339,662; published Oct. 31, 1933. Class 39.
Allen, James K., doing business as Educational Specialties, Company, Spokane, Wash. Educational appliance. 309,508; Jan. 16; Serial No. 341,084; published Nov. 7, 1933. Class 22.
Angier Chemical Company, Allston, Boston, Mass. Emulsion of mineral oil with cascara sagrada. 309,548; Jan. 16; Serial No. 341,010; published Oct. 31, 1933. Class 6.
B. V. D. Company, Inc., The, Baltimore, Md. Shirts, pajamas, and underwear. 309,486; Jan. 16; Serial No. 338,714; published Aug. 15, 1933. Class 39.
Benton-Bailey Company, Incorporated, Richmond, Va. Pneumatic tires and inner tubes. 309,476; Jan. 16; Serial No. 340,788; published Nov. 7, 1933. Class 35.
Boomerang Co., Inc., The, Chicago, Ill. Golf practice ball returning device. 309,452; Jan. 16; Serial No. 341,451; published Nov. 7, 1933. Class 22.
Bourjois, Inc., New York, N. Y. Astringents, beauty creams, eyebrow pencils, etc. 309,501; Jan. 16; Serial No. 338,481; published Oct. 31, 1933. Class 6.
Bowers, B. O., Co. (See Reynolds, Frank H.)
California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Insecticides, germicides, etc. 309,460; Jan. 16; Serial No. 338,556; published July 25, 1933. Class 6.
Cando Corporation, The, Cambridge, Mass. Deodorizers. 309,542; Jan. 16; Serial No. 341,159; published Oct. 31, 1933. Class 6.
Carma Laboratories. (See Woelbing, Alfred G. E.)
Central Chemical Company, Inc., Hagerstown, Md. Dormant spray. 309,441; Jan. 16; Serial No. 340,670; published Oct. 31, 1933. Class 6.
Chanel, Inc., New York, N. Y. Perfume. 309,503; Jan. 16; Serial No. 336,496; published Oct. 31, 1933. Class 6.
Chivas Brothers, Aberdeen, Scotland. Whiskey. 309,456; Jan. 16; Serial No. 341,525; published Nov. 7, 1933. Class 49.
Cole, Robert, Oakland, Calif. Honey. 309,469; Jan. 16; Serial No. 339,884; published Nov. 7, 1933. Class 46.
Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. 309,496; Jan. 16; Serial No. 335,925; published Nov. 7, 1933. Class 4.
Commanditaire Vennootschap onder De Firma P. Hoppe, Schiedam, Netherlands. Gin. 309,528; Jan. 16; Serial No. 341,724; published Oct. 31, 1933. Class 49.
Cope, Ray M., Chicago, Ill. Miniature toy models of the Sky Ride Century of Progress. 309,451; Jan. 16; Serial No. 341,416; published Nov. 7, 1933. Class 22.
Cowie, George, & Son, Limited, Dufftown, Scotland. Whisky. 309,453; Jan. 16; Serial No. 341,452; published Oct. 31, 1933. Class 49.
Craine, Inc., Norwich, Conn. Silos, storage pockets, coal pockets, etc. 309,506; Jan. 16; Serial No. 341,075; published Nov. 7, 1933. Class 2.
Crawford, A. & A., Leith, Scotland. Scotch whisky. 309,471; Jan. 16; Serial No. 335,719; published May 30, 1933. Class 49.
Daisy Electrical Manufacturing Corporation, Brooklyn, N. Y. Automobile accessories. 309,479; Jan. 16; Serial No. 340,427; published Nov. 7, 1933. Class 19.
Davis & Lawrence Co., New York, N. Y. Talcum powder, tooth paste, toilet cream, etc. 309,535; Jan. 16; Serial No. 341,397; published Nov. 7, 1933. Class 6.
De Cabanas y Carbajal, H., Jersey City, N. J. Cigars. 309,520; Jan. 16; Serial No. 341,683; published Nov. 7, 1933. Class 17.
Denticol Company. (See Weinberg, Clare S.)
Doho Chemical Corporation, The, New York, N. Y. Ear drops. 309,463; Jan. 16; Serial No. 339,512; published Nov. 7, 1933. Class 6.
Duncan, Samuel A., Englewood, N. J. Table football game. 309,448; Jan. 16; Serial No. 341,277; published Nov. 7, 1933. Class 22.
Duncan, Thomas P., jr., Newport News, Va. Casters. 309,512; Jan. 16; Serial No. 341,197; published Nov. 7, 1933. Class 13.
E-Z Opener Bag Company, Tuscaloosa, Ala. Paper bags. 309,484; Jan. 16; Serial No. 339,555; published Nov. 7, 1933. Class 2.
Educational Specialties Company. (See Allen, James K.)
Eisenlohr, Webster, Inc., New York, N. Y. Cigars. 309,519; Jan. 16; Serial No. 341,704; published Nov. 7, 1933. Class 17.
Elizabeth Brewing Corporation, Elizabeth, N. J. Malt beverages. 309,523; Jan. 16; Serial No. 341,792; published Nov. 7, 1933. Class 48.
Estabrook & Eaton Company, Boston, Mass. Cigars. 309,539; Jan. 16; Serial No. 341,279; published Nov. 7, 1933. Class 17.
Ey-Teb, Inc., New York, N. Y. Dyes and coloring matters adapted for dyeing hair, eyelashes, and eyebrows. 309,536; Jan. 16; Serial No. 341,362; published Oct. 31, 1933. Class 6.
Farrior, Lawrence B., doing business as Lawrence Bryant Farrior and Lawrence Laboratory, New York, N. Y. Preparation for the treatment of dermatomycosis. 309,546; Jan. 16; Serial No. 341,118; published Oct. 31, 1933. Class 6.
Faust Imperial Bottlers, doing business as Stein King Beer Co., Columbia, S. C. Bottled beer. 309,492; Jan. 16; Serial No. 341,619; published Nov. 7, 1933. Class 48.
Figaro Company, The. Smoke sauce to be used in cooking meats. 309,555; Jan. 16; Serial No. 318,099; published Oct. 31, 1933. Class 46.
Fisher, Leo, Highland Park, Ill. Dolls. 309,490; Jan. 16; Serial No. 334,251; published Nov. 7, 1933. Class 22.
Forest City Manufacturing Co., St. Louis, Mo. Wearing apparel. 309,485; Jan. 16; Serial No. 338,772; published Sept. 12, 1933. Class 39.
Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Wines. 309,505; Jan. 16; Serial No. 341,021; published Nov. 7, 1933. Class 47.
Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München, Munich, Germany. Malt beverages and wort. 309,482; Jan. 16; Serial No. 339,821; published Nov. 7, 1933. Class 48.
Gallin-Martel, Joseph, Cognac, France. Brandies. 309,474; Jan. 16; Serial No. 340,833; published Nov. 7, 1933. Class 49.
Gandolfi, L., & Co., Inc., New York, N. Y. Wines. 309,495; Jan. 16; Serial No. 341,863; published Nov. 7, 1933. Class 47.
Gandolfi, L., & Co., Inc., New York, N. Y. Wines. 309,502; Jan. 16; Serial No. 341,864; published Nov. 7, 1933. Class 47.

General Dyestuff Corporation, New York, N. Y. Dyestuffs. 309,547; Jan. 16; Serial No. 341,022; published Oct. 31, 1933. Class 6.
General Fire Truck Corporation, The, St. Louis, Mo. Hand fire extinguishers. 309,478; Jan. 16; Serial No. 340,578; published Nov. 7, 1933. Class 23.
Glencoe Distillery Co., Inc., Louisville, Ky. Whiskey. 309,457; Jan. 10; Serial No. 341,551; published Oct. 31, 1933. Class 49.
Glenmore Distilleries Co., Owensboro, Ky. Whiskey. 309,472–3; Jan. 16; Serial Nos. 340,975–6; published Oct. 17, 1933. Class 49.
Great Atlantic & Pacific Tea Company, The, New York, N. Y. Coffee. 309,447; Jan. 16; Serial No. 341,228; published Oct. 31, 1933. Class 46.
Great Atlantic & Pacific Tea Company, The, New York, N. Y. Coffee. 309,510; Jan. 16; Serial No. 341,164; published Oct. 31, 1933. Class 46.
Great Atlantic & Pacific Tea Company, The, New York, N. Y. Coffee. 309,511; Jan. 16; Serial No. 341,209; published Oct. 31, 1933. Class 46.
Great Eastern Products Corporation, New York, N. Y. Cleaning preparations and detergents. 309,534; Jan. 16; Serial No. 341,429; published Nov. 7, 1933. Class 4.
Griffith, Don C., Rochester, N. Y. Toilet preparations. 309,461; Jan. 16; Serial No. 339,029; published Oct. 31, 1933. Class 6.
House of Tre-Jur, Inc., New York, N. Y. Soaps. 309,497; Jan. 16; Serial No. 336,005; published Nov. 7, 1933. Class 4.
Hugy, Charles W., San Jose, Calif. Stoves. 309,516; Jan. 16; Serial No. 341,824; published Nov. 7, 1933. Class 34.
Hyland, George H., doing business as Standard Homeopathic Company, Los Angeles, Calif. Bowel regulator or intestinal cleaner. 309,467; Jan. 16; Serial No. 339,826; published Oct. 31, 1933. Class 6.
Iowa Soap Company, Burlington, Iowa. Soap powder. 309,532; Jan. 16; Serial No. 341,519; published Nov. 7, 1933. Class 4.
Jones, Marshall E., Canonsburg, Pa. Cereal breakfast food. 309,470; Jan. 16; Serial No. 340,073; published Nov. 7, 1933. Class 46.
Keasgey & Mattison Company, Ambler, Pa. Insulation products, adapted as a pipe covering. 309,466; Jan. 16; Serial No. 339,785; published Oct. 31, 1933. Class 12.
Kramer, J., Company, Commission Merchants Inc., The, New York, N. Y. Whiskey and other potable distilled liquors. 309,450; Jan. 16; Serial No. 341,369; published Oct. 31, 1933. Class 49.
Kuhn's Beer Inc., Jamestown, N. Y. Beer. 309,525; Jan. 16; Serial No. 341,727; published Nov. 7, 1933. Class 48.
Lady Marie Products Co. (See Shaw, L. Jennings.)
Lawrence Laboratory. (See Farrior, Lawrence B.)
Lippincott, Emilie R., Ventnor City, N. J. Tablets for reducing. 309,444; Jan. 16; Serial No. 340,704; published Nov. 7, 1933. Class 6.
Lo Curto, Bernardo, doing business as R. Lo Curto, New York, N. Y. Olive oil. 309,481; Jan. 16; Serial No. 339,870; published Oct. 31, 1933. Class 46.
Maggenti, Alberto L., San Francisco, Calif. Faucets. 309,507; Jan. 16; Serial No. 341,134; published Nov. 7, 1933. Class 18.
Mantle Lamp Company of America, The, Chicago, Ill. Impregnated or coated fabrics. 309,533; Jan. 16; Serial No. 341,467; published Nov. 7, 1933. Class 50.
Matschek, John N., Portland, Oreg. Frankfurter sausage. 309,529; Jan. 16; Serial No. 341,659; published Oct. 31, 1933. Class 46.
Mauer, Charles F., New York, N. Y. Emulsified oil base Portland cement decorative wall finish in plastic form. 309,545; Jan. 16; Serial No. 341,146; published Oct. 31, 1933. Class 12.
Miller, J. E., Transfer and Storage Co., Wheeling, W. Va. Insecticides. 309,504; Jan. 16; Serial No. 337,304; published Oct. 31, 1933. Class 6.
Mouquin, Incorporated, New York and Brooklyn, N. Y. Wines. 309,454; Jan. 16; Serial No. 341,464; published Nov. 7, 1933. Class 47.
Mouquin, Inc., New York and Brooklyn, N. Y. Wines. 309,494; Jan. 16; Serial No. 341,799; published Nov. 7, 1933. Class 47.
Mueller Brass Co., Port Huron, Mich. Nuts, glands, stems, couplings, etc. 309,442; Jan. 16; Serial No. 315,003; published Oct. 27, 1931. Class 13.
Mutacio Brothers, New York, N. Y. Olive oil. 309,488; Jan. 16; Serial No. 338,255; published Oct. 31, 1933. Class 46.
Nassour Brothers Inc. Ltd., Los Angeles, Calif., and Chicago, Ill. Soap. 309,445; Jan. 16; Serial No. 340,858; published Nov. 7, 1933. Class 4.
Nathan, Emil, St. Louis, Mo. Whiskey. 309,449; Jan. 16; Serial No. 341,299; published Oct. 24, 1933. Class 49.
National Brewing Company. (See Weber, Walter H.)
National Fireproofing Corporation, Pittsburgh, Pa. Bricks or blocks. 309,531; Jan. 16; Serial No. 341,585; published Oct. 31, 1933. Class 12.
National Mattress Company, Huntington, W. Va. Mattresses and upholstered box springs. 309,530; Jan. 16; Serial No. 336,953; published June 6, 1933. Class 34.
Neumann, H., & Company, Hoboken, N. J. Leather. 309,521; Jan. 16; Serial No. 341,734; published Nov. 7, 1933. Class 1.
Nicholson & Sons Limited, Maidenhead, England. Whiskey. 309,458; Jan. 16; Serial No. 341,586; published Oct. 31, 1933. Class 49.
North American Creameries, Incorporated, Paynesville, Minn. Ice-cream bar. 309,524; Jan. 16; Serial No. 341,735; published Nov. 7, 1933. Class 46.
Oesterreichisch Amerikanische Magnesit Aktiengesellschaft, Radenthein, Austria. Refractory bricks. 309,439; Jan. 16; Serial No. 340,452; published Nov. 7, 1933. Class 12.
Osterstock, Harry J., doing business as Seitz Brewery, Easton, Pa. Beer, ale, and porter. 309,526; Jan. 16; Serial No. 341,736; published Nov. 7, 1933. Class 48.
Parfumerie St. Denis, New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 309,465; Jan. 16; Serial No. 339,794; published Nov. 7, 1933. Class 6.
Pitt, C. M., & Sons Co., The, Baltimore, Md. Prepared doughnut compound. 309,514; Jan. 16; Serial No. 341,773; published Nov. 7, 1933. Class 46.
Quigley Company, Inc., New York, N. Y. Composition for sealing threaded, flanged, and gasket joints. 309,543; Jan. 16; Serial No. 341,257; published Nov. 7, 1933. Class 12.
Raybestos-Manhattan, Incorporated, Passaic, N. J., and Bridgeport, Conn. Brake lining. 309,477; Jan. 16; Serial No. 340,666; published Nov. 7, 1933. Class 35.
Reid, Wright & Holloway (Distillers), Limited, London, England. Scotch whisky. 309,455; Jan. 16; Serial No. 341,494; published Nov. 7, 1933. Class 49.
Reynolds, Frank H., doing business as B. O. Bowers Co., New York, N. Y. Canned sardines. 309,552; Jan. 16. Serial No. 329,840; published Oct. 31, 1933. Class 46.
Reznik, Jacob C., doing business as Aled Textiles, New York, N. Y. Shower sheets. 309,489; Jan. 16; Serial No. 337,719; published Nov. 7, 1933. Class 13.
Ritz Chemical Company of New Jersey. (See Schwartz, Walter L.)
Sal Products Co., Inc., Brooklyn, N. Y. Polishing and cleansing powder. 309,537; Jan. 16; Serial No. 341,337; published Nov. 7, 1933. Class 4.
Sandoz Chemical Works, Inc., New York, N. Y. Chemical compounds adapted for the treatment of textile fibers and fabrics. 309,541; Jan. 16; Serial No. 341,213; published Oct. 31, 1933. Class 6.
Scher, William, New York, N. Y. Soaps and soap containing mixtures and preparations, etc. 309,550; Jan. 16; Serial No. 331,010; published Nov. 7, 1933. Class 4.
Scher, William, New York, N. Y. Toilet and cosmetic preparations. 309,551; Jan. 16; Serial No. 331,009; published Nov. 7, 1933. Class 6.
Schwartz, Walter L., doing business as Ritz Chemical Company of New Jersey, Newark, N. J. Beer-pipe cleaning apparatus. 309,475; Jan. 16; Serial No. 340,816; published Nov. 7, 1933. Class 13.
Sears, Roebuck and Co., Chicago, Ill. Disinfectant, cod-liver oil, tissue cream, etc. 309,500; Jan. 16; Serial No. 335,695; published Oct. 31, 1933. Class 6.
Seitz Brewery. (See Osterstock, Harry J.)
Seminole Paper Corporation, Chicago, Ill. Toilet paper. 309,553; Jan. 16; Serial No. 328,228; published Oct. 10, 1933. Class 37.
Serene Kleaner Company, Cleveland, Ohio. Cleaning and washing compound. 309,464; Jan. 16; Serial No. 339,767; published Nov. 7, 1933. Class 4.
Shaw, L. Jennings, doing business as Lady Marie Products Co., McKeesport, Pa. Toilet lotion. 309,443; Jan. 16; Serial No. 340,697; published Oct. 31, 1933. Class 6.
Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemenstadt, Germany. Scythes, sickles, planing machines, milling machines, etc. 309,554; Jan. 16; Serial No. 320,877; published Nov. 7, 1933. Class 23.
Silvers Manufacturing Company, Waterloo, Iowa. Tool for cleaning drains and pipes, traps, and sink, and the like. 309,487; Jan. 16; Serial No. 338,293; published Nov. 7, 1933. Class 23.
Societe a Responsabilite Limitee Thomas Hine & Cie., Jarnac, France. Cognac brandy. 309,493; Jan. 16; Serial No. 341,639; published Oct. 31, 1933. Class 49.
Socony-Vacuum Corporation, New York, N. Y. Solvent naphtha. 309,513; Jan. 16; Serial No. 341,810; published Nov. 7, 1933. Class 4.
Standard Beauty Parlor Supply Co., New York, N. Y. Nail polish, cleansing cream, and hand lotion, etc. 309,446; Jan. 16; Serial No. 340,900; published Nov. 7, 1933. Class 6.
Standard Brands Incorporated, New York, N. Y. Coffee. 309,556; Jan. 16; Serial No. 303,396; published Oct. 31, 1933. Class 46.
Standard Brewing Company, The, Cleveland, Ohio. Beer. 309,491; Jan. 16; Serial No. 341,701; published Nov. 7, 1933. Class 48.
Standard Homeopathic Company. (See Hyland, George H.)
Stein King Beer Co. (See Faust Imperial Bottlers.)
Taylor, W. A., & Co., New York, N. Y. Olive oil. 309,540; Jan. 16; Serial No. 341,217; published Nov. 7, 1933. Class 46.
Texas Company, The, New York, N. Y. Tire valve caps, valves, and chains, and auto tow chains. 309,490; Jan. 16; Serial No. 342,017; published Nov. 7, 1933. Class 13.
Thiophene Laboratories, Inc., Chicago, Ill. Protein compound. 309,440; Jan. 16; Serial No. 340,660; published Nov. 7, 1933. Class 6.

United-Carr Fastener Corporation, Cambridge, Mass. Snap fasteners. 309,517; Jan. 16; Serial No. 341,999; published Nov. 7, 1933. Class 13.
U. S. Reduction Co., East Chicago Ind. Aluminum ingots. 309,462; Jan. 16; Serial No. 339,372; published Nov. 7, 1933. Class 14.
Valente, Costa & Companhia, Limitada Villa Nova de Gaya, Portugal. Port Wines. 309,509; Jan. 16; Serial No. 341,172; published Nov. 7, 1933. Class 47.
Vita-Ray Corporation, Lowell, Mass. Oil preparation for the treatment of dry skin. 309,544; Jan. 16; Serial No. 341,145; published Oct. 31, 1933. Class 6.
Weber, Walter H., doing business as National Brewing Company, Saginaw, Mich. Malt beverages. 309,459; Jan. 16; Serial No. 341,616; published Nov. 7, 1933. Class 48.
Webster Eisenlohr, Inc., New York, N. Y. Cigars. 309,522; Jan. 16; Serial No. 341,705; published Nov. 7, 1933. Class 17.
Weinberg, Clare S., doing business as Denticol Company, New York, N. Y. Dentifrice, mouth wash, and mouth gargle. 309,438; Jan. 16; Serial No. 340,329; published Nov. 7, 1933. Class 6.
Welskittel, Harry C., Company, Inc., Baltimore, Md. Stoves. 309,538; Jan. 16; Serial No. 341,311; published Nov. 7, 1933. Class 34.
Widmer's Wine Cellars, Naples, N. Y. Wine. 309,527; Jan. 16; Serial No. 341,709; published Nov. 7, 1933. Class 47.
Wieland's Glorified Kitchens, Inc., Chicago, Ill. Foods. 309,468; Jan. 16; Serial No. 339,846; published Nov. 7, 1933. Class 46.
Williams, Oliver J., San Francisco, Calif. Crusher parts. 309,480; Jan. 16; Serial No. 340,142; published Nov. 7, 1933. Class 23.
Windsor-Lloyd Products, Inc., Wilmington, Del. Tire Chains. 309,518; Jan. 16; Serial No. 341,940; published Nov. 7, 1933. Class 13.
Wizard, Inc., Chicago, Ill. Stop-leak for radiators and radiator cleaner. 309,515; Jan. 16; Serial No. 341,847; published Nov. 7, 1933. Class 6.
Woelbing, Alfred G. E., doing business as Carma Laboratories, Chicago, Ill. Preparation for chapped lips. 309,498; Jan. 16; Serial No. 336,030; published June 6, 1933. Class 6.

LIST OF REGISTRANTS OF LABELS

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Spearmint Gum. For Chewing Gum. 43,106; Jan. 16.
Campana Corporation, Batavia, Ill. Campana's the Original Skin Invigorator. For Skin Invigorator. 43,107–8; Jan. 16.
Comstock Canneries, Inc., Newark, N. Y. Secco. For Canned Tomatoes. 43,109; Jan. 16.
International Importing Corp., New York, N. Y. Piccadilly. For Gin. 43,110; Jan. 16.
International Importing Corp., New York, N. Y. Shannon Dawn. For Whiskey. 43,111; Jan. 6.
Kellogg Company, Battle Creek, Mich. Kellogg's All-Bran. For Bran Food. 43,112; Jan. 16.
Kellogg Company, Battle Creek, Mich. Kellogg's Bran Flakes. For Bran Food. 43,113; Jan. 16.
Kellogg Company, Battle Creek, Mich. Kellogg's Corn Flakes. For Ready-to-Eat Cereal Food. 43,114; Jan. 16.
Kellogg Company, Battle Creek, Mich. Kellogg's Pep. For Toasted Wheat Cereal. 43,115; Jan. 16.
Kellogg Company, Battle Creek, Mich. Kellogg's Wheat Krumbles. For Ready-to-Eat Wheat Cereal Food. 43,116; Jan. 16.
Kellogg Company, Battle Creek, Mich. Kellogg's Whole Wheat Biscuit. For Shredded Wheat Biscuit. 43,117; Jan. 16.
Kellogg Company, Battle Creek, Mich. Kellogg's Whole Wheat Flakes. For Ready-to-Eat Cereal Food. 43,118; Jan. 16.
National Underwear Corporation, Metropolis, Ill., and Chaffee, Mo. Hollywood Undies. For Women's and Misses' Underwear. 43,119; Jan. 16.
Olympia Canning Company, Olympia, Wash. Silver Wave. For Strawberries. 43,120; Jan. 16.
Warsaw, Max M., Chicago, Ill. Tan-Ex. For Sun Tan Oil. 43,122; Jan. 16.
Wesco Foods Company, Cincinnati, Ohio. Her Grace Brand Fruit Cake. For Fruit Cake. 43,123–4; Jan. 16.

LIST OF REGISTRANTS OF PRINTS

Columbia Breweries Inc., Seattle, Wash. Alt Heidelberg. Lager Beer. For Lager Beer. 14,507; Jan. 16.
General Mills, Inc., Minneapolis, Minn. Now! Have Perfect Biscuits! For Biscuit Flour. 14,508; Jan. 16.
General Mills, Inc., Minneapolis, Minn. It Cost $25,000 to Give You This Latest "Kitchen-Tested" Recipe Set Free! For Flour. 14,509; Jan. 16.
Horning, George D., Washington, D. C. Buy More—Pay Less. For Jewelry. 14,510; Jan. 16.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Leather. R. Neumann & Company. 309,521; Jan. 16; Serial No. 341,734; published Nov. 7, 1933.

CLASS 2

Bags, Paper. E-Z Opener Bag Company. 309,484; Jan. 16; Serial No. 339,555; published Nov. 7, 1933.
Silos, storage pockets, coal pockets, etc. Craine, Inc. 309,506; Jan. 16; Serial No. 341,075; published Nov. 7, 1933.

CLASS 4

Cleaning and washing compound. Serene Kleaner Company. 309,464; Jan. 16; Serial No. 339,767; published Nov. 7, 1933.
Cleaning preparations and detergents. Great Eastern Products Corporation. 309,534; Jan. 16; Serial No. 341,429; published Nov. 7, 1933.
Naphtha, Solvent. Socony-Vacuum Corporation. 309,513; Jan. 16; Serial No. 341,810; published Nov. 7, 1933.
Polishing and cleansing powder. Sal Products Co. 309,537; Jan. 16; Serial No. 341,337; published Nov. 7, 1933.
Soap. Colgate-Palmolive-Peet Company. 309,496; Jan. 16; Serial No. 335,925; published Nov. 7, 1933.
Soap. Nassour Brothers Inc. Ltd. 309,445; Jan. 16; Serial No. 340 858; published Nov. 7, 1933.
Soap powder. Iowa Soap Company. 309,532; Jan. 16; Serial No. 341,519; published Nov. 7, 1933.
Soaps. House of Tre-Jur, Inc. 309,497; Jan. 16; Serial No. 336,005; published Nov. 7, 1933.
Soaps and soap containing mixtures and preparations, etc. W. Scher. 309,550; Jan. 16; Serial No. 331,010; published Nov. 7, 1933.

CLASS 6

Astringents, astringent cerates, bleach and beauty creams, etc. Parfumerie St. Denis. 309,465; Jan. 16; Serial No. 339,794; published Nov. 7, 1933.
Astringents, beauty creams, eyebrow pencils, etc. Bourjois, Inc. 309,501; Jan. 16; Serial No. 338,481; published Oct. 31, 1933.
Compounds adapted for the treatment of textile fibers and fabrics. Chemical, Sandoz Chemical Works, Inc. 309,541; Jan. 16; Serial No. 341,213; published Oct. 31, 1933.
Dentifrice, mouth wash, and mouth gargle. C. S. Weinberg. 309,438; Jan. 16; Serial No. 340,329; published Nov. 7, 1933.
Deodorizers. Candoo Corporation. 309,542; Jan. 16; Serial No. 341,159; published Oct. 31, 1933.
Disinfectant, cod-liver oil, tissue cream, etc. Sears, Roebuck and Co. 309,500; Jan. 16; Serial No. 335,695; published Oct. 31, 1933.
Dyes and coloring matters. Ey-Teb, Inc. 309,536; Jan. 16; Serial No. 341,362; published Oct. 31, 1933.
Dyestuffs. General Dyestuff Corporation. 309,547; Jan. 16; Serial No. 341,022; published Oct. 31, 1933.
Ear drops. Doho Chemical Corporation. 309,463; Jan. 16; Serial No. 339,512; published Nov. 7, 1933.
Emulsion of mineral oil with cascara sagrada. Angier Chemical Company. 309,548; Jan. 16; Serial No. 341,010; published Oct. 31, 1933.
Insecticides. J. E. Miller Transfer and Storage Co. 309,504; Jan. 16; Serial No. 337 304; published Oct. 31, 1933.
Insecticides, germicides, etc. California Spray-Chemical Corporation. 309,460; Jan. 16; Serial No. 338,556; published July 25, 1933.
Lotion, Toilet. L. J. Shaw. 309,443; Jan. 16; Serial No. 340,697; published Oct. 31, 1933.

Nail polish, cleansing cream, and hand lotion, etc. Standard Beauty Parlor Supply Co. 309,446; Jan. 16; Serial No. 340,900; published Nov. 7, 1933.
Oil preparation for the treatment of dry skin. Vita-Ray Corporation. 309,544; Jan. 16; Serial No. 341,145; published Oct. 31, 1933.
Perfume. Chanel, Inc. 309,503; Jan. 16; Serial No. 336,496; published Oct. 31, 1933.
Powder, talcum, tooth paste, toilet cream, etc. Davis & Lawrence Co. 309,535; Jan. 16; Serial No. 341,397; published Nov. 7, 1933.
Preparation for chapped lips. A. G. E. Woelbing. 309,498; Jan. 16; Serial No. 336,030; published June 6, 1933.
Preparation for the treatment of dermatomycosis. L. B. Farrior. 309,546; Jan. 16; Serial No. 341,118; published Oct. 31, 1933.
Protein compound. Thiophene Laboratories, Inc. 309,440; Jan. 16; Serial No. 340,660; published Nov. 7, 1933.
Regulator, Bowel. G. H. Hyland. 309,467; Jan. 16; Serial No. 339,826; published Oct. 31, 1933.
Spray, Dormant. Central Chemical Company. 309,441; Jan. 16; Serial No. 340,670; published Oct. 31, 1933.
Stop-leak for radiators and radiator cleaner. Wizard, Inc.. 309,515; Jan. 16; Serial No. 341,847; published No. 7, 1933.
Tablets for reducing. E. R. Lippincott. 309,444; Jan. 16; Serial No. 340,704; published Nov. 7, 1933.
Toilet and cosmetic preparations. W. Scher. 309,551; Jan. 16; Serial No. 331,009; published Nov. 7, 1933.
Toilet preparations. D. C. Griffith. 309,461; Jan. 16; Serial No. 339,029; published Oct. 31, 1933.
Bricks or blocks. National Fireproofing Corporation. 309,531; Jan. 16; Serial No. 341,585; published Oct. 31, 1933.
Bricks, Refractory. Oesterreichisch Amerikanische Magnesit Aktiengesellschaft. 309,439; Jan. 16; Serial No. 340,452; published Nov. 7, 1933.
Composition for sealing threaded, flanged and gasket joints. Quigley Company. 309,543; Jan. 16; Serial No. 341,257; published Nov. 7, 1933.
Finish in plastic form. C. F. Mauer. 309,545; Jan. 16; Serial No. 341,146; published Oct. 31, 1933.
Insulation products, adapted as a pipe covering. Keasbey & Mattison Company. 309,466; Jan. 16; Serial No. 339,785; published Oct. 31, 1933.

CLASS 13

Casters. T. P. Duncan, jr. 309,512; Jan. 16; Serial No. 341,197; published Nov. 7, 1933.
Chains, Tire. Windsor-Lloyd Products, Inc. 309,518; Jan. 16; Serial No. 341,940; published Nov. 7, 1933.
Fasteners, Snap. United-Carr Fastener Corporation. 309,517; Jan. 16; Serial No. 341,999; published Nov. 7, 1933.
Faucets. A. L. Maggenti. 309,507; Jan. 16; Serial No. 341,134; published Nov. 7, 1933.
Nuts, glands, stems, couplings, etc. Mueller Brass Co. 309,442; Jan. 16; Serial No. 315,003; published Oct. 27, 1931.
Pipe cleaning apparatus, Beer. W. L. Schwartz. 309,475; Jan. 16; Serial No. 340,816; published Nov. 7, 1933.
Shower sheets. J. C. Reznik. 309,489; Jan. 16; Serial No. 337,719; published Nov. 7, 1933.
Valve caps, valves, and chains, and auto tow chains, Tire. Texas Company. 309,499; Jan. 16; Serial No. 342,017; published Nov. 7, 1933.

CLASS 14

Ingots, Aluminum. U. S. Reduction Co. 309,462; Jan. 16; Serial No. 339,372; published Nov. 7, 1933.

CLASS 17

Cigars. H. De Cabanas y Carbajal. 309,520; Jan. 16; Serial No. 341,683.
Cigars. Estabrook & Eaton Company. 309,539; Jan. 16; Serial No. 341,279; published Nov. 7, 1933.
Cigars. Webster Eisenlohr, Inc. 309,519; Jan. 16; Serial No. 341,704; published Nov. 7, 1933.
Cigars. Webster Eisenlohr, Inc. 309,522; Jan. 16; Serial No. 341,705; published Nov. 7, 1999.

CLASS 19

Automobile accessories. Daisy Electrical Manufacturing Corporation. 309,479; Jan. 16; Serial No. 340,427; published Nov. 7, 1933.

CLASS 22

Dolls. L. Fisher. 309,490; Jan. 16; Serial No. 334,251; published Nov. 7, 1933.
Educational appliance. J. K. Allen. 309,508; Jan. 16; Serial No. 341,084; published Nov. 7, 1933.
Game, Table football. S. A. Duncan. 309,448; Jan. 16; Serial No. 341,277; published Nov. 7, 1933.
Golf practice ball returning device. Boomerang Co. 309,452; Jan. 16; Serial No. 341,451; published Nov. 7, 1933.
Toy models of the Sky Ride Century of Progress. Miniature. R. M. Cope. 309,451; Jan. 16; Serial No. 341,416; published Nov. 7, 1933.

CLASS 23

Crusher parts. O. J. Williams. 309,480; Jan. 16; Serial No. 340,142; published Nov. 7, 1933.
Fire extinguishers, Hand. General Fire Truck Corporation. 309,478; Jan. 16; Serial No. 340,578; published Nov. 7, 1933.
Scythes, sickles, planing machines, milling machines, etc. Siemens-Schuckertwerke. 309,554; Jan. 16; Serial No. 320,877; published Nov. 7, 1933.
Tool for cleaning drains and pipes, traps, and sink, and the like. Silvers Manufacturing Company. 309,487; Jan. 16; Serial No. 338,293; published Nov. 7, 1933.

CLASS 31

Refrigerators, Electrical. Ace Products Corporation. 309,549; Jan. 16; Serial No. 331,395; published Nov. 7, 1933.

CLASS 32

Mattresses and upholstered box springs. National Mattress Company. 309,530; Jan. 16; Serial No. 336,953; published June 6, 1933.

CLASS 34

Stoves. C. W. Hugy. 309,516; Jan. 16; Serial No. 341,824; published Nov. 7, 1933.
Stoves. Harry C. Welskittel Company. 309,538; Jan. 16; Serial No. 341,311; published Nov. 7, 1933.

CLASS 35

Lining, Brake. Raybestos Manhattan, Incorporated. 309,477; Jan. 16; Serial No. 340,666; published Nov. 7, 1933.
Tires and inner tubes, Pneumatic. Benton-Bailey Company. 309,476; Jan. 16; Serial No. 340,788; published Nov. 7, 1933.

CLASS 37

Paper, Toilet. Seminole Paper Corporation. 309,553; Jan. 16; Serial No. 328,228; published Oct. 10, 1933.

CLASS 39

Apparel, Wearing. Forest City Manufacturing Co. 309,485; Jan. 16; Serial No. 338,772; published Sept. 12, 1933.
Shirts, pajamas, and underwear. B. V. D. Company. 309,486; Jan. 16; Serial No. 338,714; published Aug. 15, 1933.
Suits, coats, pants, vests, etc. Alco-Zander Company. 309,483; Jan. 16; Serial No. 339,662; published Oct. 31, 1933.

CLASS 46

Canned sardines. F. H. Reynolds. 309,552; Jan. 16; Serial No. 329,840; published Oct. 31, 1933.
Cereal breakfast food. M. E. Jones. 309,470; Jan. 16; Serial No. 340,073; published Nov. 7, 1933.
Coffee. Great Atlantic & Pacific Tea Company. 309,447; Jan. 16; Serial No. 341,228; Oct. 31, 1933.
Coffee. Great Atlantic & Pacific Tea Company. 309,510; Jan. 16; Serial No. 341,164; published Oct. 31, 1933.
Coffee. Great Atlantic & Pacific Tea Company. 309,511; Jan. 16; Serial No. 341,200; published Oct. 31, 1933.
Coffee. Standard Brands Incorporated. 309,556; Jan. 16; Serial No. 303,396; published Oct. 31, 1933.
Doughnut compound. C. M. Pitt & Sons Co. 309,514; Jan. 16; Serial No. 341,773; published Nov. 7, 1933.
Foods. Wieland's Glorified Kitchens, Inc. 309,468; Jan. 16; Serial No. 339,846; published Nov. 7, 1933.
Honey. R. Cole. 309,469; Jan. 16; Serial No. 339,884; published Nov. 7, 1933.
Ice-cream bar. North American Creameries, Incorporated. 309,524; Jan. 16; Serial No. 341,735; published Nov. 7, 1933.
Olive oil. B. Lo Curto. 309,481; Jan. 16; Serial No. 339,870; published Oct. 31, 1933.
Olive oil. Mutascio Brothers. 309,488; Jan. 16; Serial No. 338,255; published Oct. 31, 1933.
Olive oil. W. A. Taylor & Co. 309,540; Jan. 16; Serial No. 341,217; published Nov. 7, 1933.
Sauce, Smoke. Figaro Company. 309,555; Jan. 16; Serial No. 318,099; published Oct. 31, 1933.
Sausage, Frankfurter. J. N. Matschek. 309,529; Jan. 16; Serial No. 341,659; published Oct. 31, 1933.

CLASS 47

Wines. Fruit Industries, Ltd. 309,505; Jan. 16; Serial No. 341,021; published Nov. 7, 1933.
Wines. L. Gandolfi & Co. 309,495; Jan. 16; Serial No. 341,863; published Nov. 7, 1933.
Wines. L. Gandolfi & Co. 309,502; Jan. 16; Serial No. 341,864; published Nov. 7, 1933.
Wines. Mouquin, Incorporated. 309,454; Jan. 16; Serial No. 341,464; published Nov. 7, 1933.
Wines. Mouquin, Incorporated. 309,494; Jan. 16; Serial No. 341,799; published Nov. 7, 1933.
Wines. Widmer's Wine Cellars. 309,527; Jan. 16; Serial No. 341,709; published Nov. 7, 1933.
Wines, Port. Valente, Costa & Companhia, Limitada. 309,509; Jan. 16; Serial No. 341,172; published Nov. 7, 1933.

CLASS 48

Beer. Faust Imperial Bottlers. 309,492; Jan. 16; Serial No. 341,619; published Nov. 7, 1933.
Beer. Kuhn's Beer Inc. 309,525; Jan. 16; Serial No. 341,727; published Nov. 7, 1933.

Beer. Standard Brewing Company. 309,491; Jan. 16; Serial No. 341,701; published Nov. 7, 1933.
Beer, ale, and porter. H. J. Osterstock. 309,526; Jan. 16; Serial No. 341,736; published Nov. 7, 1933.
Malt beverages. Elizabeth Brewing Corporation. 309,523; Jan. 16; Serial No. 341,792; published Nov. 7, 1933.
Malt beverages. W. H. Weber. 309,459; Jan. 16; Serial No. 341,616; published Nov. 7, 1933.
Malt beverages and wort. Gabriel u. Jos. Sedlmayr Spaten-Franzikaner-Leistbräu A.-G. München. 309,482; Jan. 16; Serial No. 339,821; published Nov. 7, 1933.

CLASS 49

Brandies. J. Gallin-Martel. 309,474; Jan. 16; Serial No. 340,833; published Nov. 7, 1933.
Brandy, Cognac. Societe a Responsabilite Limitee Thomas Hine & Cie. 309,493; Jan. 16; Serial No. 341,639; published Oct. 31, 1933.
Gin. Commanditaire Vennootschap Onder de Firma P. Hoppe. 309,528; Jan. 16; Serial No. 341,724; published Oct. 31, 1933.
Whisky. Chivas Brothers. 309,456; Jan. 16; Serial No. 341,525; published Nov. 7, 1933.
Whisky. G. Cowie & Son, Limited. 309,453; Jan. 16; Serial No. 341,452; published Oct. 31, 1933.
Whisky. Glencoe Distillery Co. 309,457; Jan. 16; Serial No. 341,551; published Oct. 31, 1933.
Whisky. Glenmore Distilleries Co. 309,472–3; Jan. 16; Serial Nos. 340,975–6; published Oct. 17, 1933.
Whisky. E. Nathan. 309,449; Jan. 16; Serial No. 341,299; published Oct. 24, 1933.
Whisky. Nicholson & Son Limited. 309,458; Jan. 16; Serial No. 341,586; published Oct. 31, 1933.
Whisky and other potable distilled liquors. J. Kramer Company, Commission Merchants Inc. 309,450; Jan. 16; Serial No. 341,369; published Oct. 31, 1933.
Whisky, Scotch. A. & A. Crawford. 309,471; Jan. 16; Serial No. 335,719; published May 30, 1933.
Whisky, Scotch. Reid, Wright & Holloway (Distillers), Limited. 309,455; Jan. 16; Serial No. 341,494; published Nov. 7, 1933.

CLASS 50

Impregnated or coated fabrics. Mantle Lamp Company of America. 309,533; Jan. 16; Serial No. 341,467; published Nov. 7, 1933.

LIST OF LABELS

Beech-Nut Spearmint Gum. For Chewing Gum. Beech-Nut Packing Company. 43,106; Jan. 16.
Campana's the Original Skin Invigorator. For Skin Invigorator. Campana Corporation. 43,107–8; Jan. 16.
Her Grace Brand Fruit Cake. For Fruit Cake. Wesco Foods Company. 43,123–4; Jan. 16.
Hollywood Undies. For Women's and Misses' Underwear. National Underwear Corporation. 43,119; Jan. 16.
Kellogg's All-Bran. For Bran Food. Kellogg Company. 43,112; Jan. 16.
Kellogg's Bran Flakes. For Bran Food. Kellogg Company. 43,113; Jan. 16.
Kellogg's Corn Flakes. For Ready-to-Eat Cereal Food. Kellogg Company. 43,114; Jan. 16.
Kellogg's Pep. For Toasted Wheat Cereal. Kellogg Company. 43,115; Jan. 16.
Kellogg's Wheat Krumbles. For Ready-to-Eat Wheat Cereal Food. Kellogg Company. 43,116; Jan. 16.
Kellogg's Whole Wheat Biscuit. For Shredded Wheat Biscuit. Kellogg Company. 43,117; Jan. 16.
Kellogg's Whole Wheat Flakes. For Ready-to-Eat Cereal Food. Kellogg Company. 43,118; Jan. 16.
Piccadilly. For Gin. International Importing Corp. 43,110; Jan. 16.
Secco. For Canned Tomatoes. Comstock Canneries, Inc. 43,109; Jan. 16.
Shannon Dawn. For Whiskey. International Importing Corp. 43,111; Jan. 16.
Silver Wave. For Strawberries. Olympia Canning Company. 43,120; Jan. 16.
Tan-Ex. For Sun Tan Oil. M. M. Warsaw. 43,122; Jan. 16.

LIST OF PRINTS

Alt Heidelberg Lager Beer. For Lager Beer. Columbia Breweries Inc. 14,507; Jan. 16.

Buy More—Pay Less. For Jewelry. G. D. Horning. 14,510; Jan. 16.

It Cost $25,000 to Give You This Latest "Kitchen-Tested" Recipe Set Free! For Flour. General Mills, Inc. 14,509; Jan. 16.

Now! Have Perfect Biscuits! For Biscuit Flour. General Mills, Inc. 14,508; Jan. 16.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Adrian O., jr., Grosse Pointe Park, and G. K. McNeill, assignors to Morgan & Wright, Detroit, Mich. Machine for wrapping wires. 1,944,142; Jan. 16.

Abbott, Arthur V., Richmond, Va. Low temperature distillation of coal. 1,943,291; Jan. 16.

Abendroth, Elmer T., assignor to The Oakes Manufacturing Company, Inc., Tipton, Ind. Incubator. 1,943,575; Jan. 16.

Ackerman, Adolph J., Madden Dam, Canal Zone. Cableway tower. 1,944,054; Jan. 16.

Ackerman, Edward L., assignor to Ackerman-Blaesser-Fezzey, Incorporated, Detroit, Mich. Window regulator. 1,943,358; Jan. 16.

Ackerman-Blaesser-Fezzey, Incorporated. (See Ackerman, Edward L., assignor.)

Ackerman, Edward L., assignor to Ackerman-Blaesser-Fezzey, Inc., Detroit, Mich. Sash operating mechanism. 1,943,359; Jan. 16.

Acme Steel Company. (See MacChesney, Chester M., assignor.)

Adams, Charles A., assignor to Mathews Conveyer Company, Ellwood City, Pa. Conveyer. 1,943,998; Jan. 16.

Adams, John H., assignor of one-half to A. C. Phillips, Seattle, Wash. Folding clothes wringer. 1,943,503; Jan. 16.

Aeschbach, Walter E., assignor to The Measuregraph Company, St. Louis, Mo. Cloth measuring machine. 1,943,711; Jan. 16.

Ainsworth Manufacturing Corporation. (See Potter, Albert T., assignor.)

Ajax Electric Furnace Corporation et al. (See Taylor, G. E., and Thompson, assignors.)

Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)

Ajax Electrothermic Corporation et al. (See Taylor, G. E., and Thompson, assignors.)

Alemite Corporation. (See Davis, Ernest W., assignor.)

Alex, Max, Alhambra, Calif. Combination refrigerator and beverage dispenser. 1,943,279; Jan. 16.

Allday, Neville. (See Bain, R., and Allday.)

Allen-Bradley Company. (See Matthias, Lynn H., assignor.)

Allen, Frank B., Lower Merion Township, Montgomery County, Pa., assignor to The Allen-Sherman-Hoff Company. Apparatus for discharging an ash hopper. 1,943,780; Jan. 16.

Allen, Joseph W., assignor to Eclipse Aviation Corporation, East Orange, N. J. Electrical apparatus. 1,943,781; Jan. 16.

Allen-Sherman-Hoff Company, The. (See Allen, Frank B., assignor.)

Aluminum Company of America. (See Bungay, George W., assignor.)

Amalgamated Producta Co. Inc. (See Weller, William W., assignor.)

American Can Company. (See Block, William I., assignor.)

American Can Company. (See Hothersall, John M., assignor.)

American Can Company. (See Langdon, Amon W., assignor.)

American Can Company. (See Young, John M., assignor.)

American Dryice Corporation. (See Goosmann, Justus C., assignor.)

American Engineering Company. (See Lamond, Robert C., assignor.)

American Fabrics Company, The. (See Page, Samuel H., assignor.)

American Flyer Manufacturing Company. (See Arden, Thomas R., assignor.)

American Furnace Company. (See Franke, Clarence S., assignor.)

American Gasaccumulator Company. (See Luce, Richard W., assignor.)

American Magnesium Metals Corporation. (See Hansgirg, Fritz, assignor.)

American Optical Company. (See Baker, Nelson M., assignor.)

American Safety Razor Corporation. (See Behrman, Marcus B., assignor.)

American Telephone and Telegraph Company. (See Gurley, Roger K., assignor.)

American Telephone and Telegraph Company. (See Herman, Joseph, assignor.)

American Welded Tube Company. (See Mayweg, Hugo, assignor.)

Anaconda Wire and Cable Company. (See Kennedy, Joseph A., assignor.)

Anderson, Ernest E., Chicago, Ill. Two insulator high tension switch. 1,943,576; Jan. 16.

Anderson, Ernst G. K., Evanston, Ill., assignor to Appleton Electric Company. Holder and inclosure for lamps. 1,943,852; Jan. 16.

Anderson, Lossie E., assignor to Standard Oil Company, Chicago, Ill. Dry cleaning machine. 1,943,504; Jan. 16.

Andrews, Clyde C., Portland, Oreg. Numeral and letter forming refrigerant circuits. 1,943,883; Jan. 16.

Appleton Electric Company. (See Anderson, Ernst G. K., assignor.)

Appollo Steel Company. (See Holloway, Harry H., assignor.)

Arden, Thomas R., Baldwin, N. Y., assignor to American Flyer Manufacturing Company, Chicago, Ill. Clock-operated circuit controller. 1,944,055; Jan. 16.

Argento, Henry F. (See Farnham, P. O., and Argento.)

Armoured Films Limited. (See Pedersen, Niels, assignor.)

Arnold, Harold A., Knoxville, Tenn. Table. 1,943,280; Jan. 16.

Arnold, John C., Los Angeles, assignor to Metro-Goldwyn-Mayer Corporation, Culver City, Calif. Photographic apparatus. 1,943,360; Jan. 16.

Aro Equipment Corporation, The. (See Hartman, George H., assignor.)

Aronson, Louis V., assignor to Art Metal Works, Inc., Newark, N. J. Pyrophoric lighter arrangement. 1,943,505; Jan. 16.

Art Metal Works, Inc. (See Aronson, Louis V., assignor.)

Aseltine, Fred E., assignor to Delco Products Corporation, Dayton, Ohio. Charge forming device. 1,943,909; Jan. 16.

Atkins, E. C., & Company. (See Gommel, Dewey E., assignor.)

Atkins, Thomas R., Cliftondale, Mass. Pull-over. 1,943,999; Jan. 16.

Atlantic Refining Company, The. (See Peterkin, Albert G., jr., assignor.)

Attensener, Waagenfabrik Albert Essmann & Co. (See Essman, Heinrich A. L., assignor.)

Auerbach, Zemach, New York, N. Y. Filing cabinet. 1,943,577; Jan. 16.

Austin, Miner M., Waukegan, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Biplate metal. 1,943,853; Jan. 16.

Autographic Register Company. (See Borchers, William G., assignor.)

Automotive Engineering Corporation. (See Rayburn, Alden G., assignor.)

Auto Research Corporation. (See Kocher, Edward H., assignor.)

Autoyre Company, The. (See Mosgrove, Charles A., assignor.)

Awbrey, Samuel C., assignor to Floor Accessories Company, Inc., Kansas City, Mo. Mold form structure. 1,943,361; Jan. 16.

Babbitt, Herbert S., Baldwin, N. Y., assignor to the Government of United States, represented by the Secretary of the Navy. Illuminating projectile. 1,943,292; Jan. 16.

Babcock & Wilcox Company, The. (See Helgh, William, assignor.)

Baer, Alvin H., assignor to The Carbondale Machine Company, Carbondale, Pa. Cooler for liquids. 1,914,056; Jan. 16.

Baer, Edward S., Streator, Ill. Brick machine. 1,943,506; Jan. 16.

Baer, Lawrence E., assignor to The Baer & Wilde Company, Attleboro, Mass. Key ring or similar article. Des. 91,844; Jan. 16.

Baer & Wilde Company, The. (See Baer, Lawrence E., assignor.)

Bailey, Edward A., assignor to The Standard Oil Company, Neodesha, Kans. Liquid-feed proportioning device. 1,943,362; Jan. 16.

Bailey Meter Company. (See Barnes, Frederick A., assignor.)

Bailey, William M., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Capacitor. 1,943,712; Jan. 16.

Bailey, William M., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Apparatus for securing zero capacity-temperature coefficient. 1,943,713; Jan. 16.

Bailey, William M., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Combination high and low capacity condenser. 1,943,714; Jan. 16.

Bailey, William M., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Molded dielectric condenser. 1,943,715; Jan. 16.

Bain, Robert, Handsworth, Birmingham, and N. Allday, Four Oaks, England. Electric tumbler switch. 1,943,363; Jan. 16.

Bakelite Corporation. (See Bender, Howard L., assignor.)

Bakelite Gesellschaft mit beschrankter Haftung. (See Seebach, Fritz, assignor.)

Baker, John C., Montclair, and F. C. Schmelkes, Bloomfield, assignors to Wallace & Tiernan Products, Inc., Belleville, N. J. Sterilizing water. 1,943,650; Jan. 16.
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,943,910; Jan. 16.
Baldwin, Mabel, Sacramento, Calif. Hairpin. 1,943,936; Jan. 16.
Baldwin-Southwark Corporation. (See Ruch, Herman J., assignor.)
Ball, Charles A., assignor to Chicago Belting Company, Chicago, Ill. Method of and apparatus for making belts. 1,943,499; Jan. 16.
Banfield, Thomas H., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Coal-burning stoker. Des. 91,345; Jan. 16.
Banker, Oscar H., assignor to New Products Corporation, Chicago, Ill. Automatic change speed transmission. 1,943,293; Jan. 16.
Barbet, Emile A., Paris, France. Apparatus for continuous distillation of heavy hydrocarbons. 1,944,057; Jan. 16.
Barbour, Perley E. (See Barbour, Walter G., assignor.)
Barbour, Walter G., assignor to P. E. Barbour, Quincy, doing business as Barbour Welting Company, Brockton, Mass. Making welting fillets and strips. 1,943,410; Jan. 16.
Barbour Welting Company. (See Barbour, Walter G., assignor.)
Barclay, Robert E., and N. Berggren, Chicago, Ill., assignor to Federal Electric Company. Sign. 1,943,281; Jan. 16.
Barden, William S., assignor to Radio Corporation of America, Grasmere, Staten Island, N. Y. Superheterodyne receiver. 1,944,117; Jan. 16.
Bardsley, Willard W., Providence, assignor to Wardwell Braiding Machine Company, Central Falls, R. I. Serving machine. 1,943,716; Jan. 16.
Barmer Maschinenfabrik A.-G. (See Sieper, Fritz, assignor.)
Barnes, Frederick A., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Tube coupling. 1,943,717; Jan. 16.
Barnes, Thomas E., and W. F. Cobb, Utica, N. Y. Pouring spout for containers. 1,944,058; Jan. 16.
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrie, James C., Montreal, Quebec, Canada. Valve. 1,943,805; Jan. 16.
Bartelink, Albertus A., Eindhoven, Netherlands, assignor to Radio Corporation of America. Ferromagnet system for converting electric oscillations into acoustic vibrations or conversely. 1,943,884; Jan. 16.
Barthelemy, Henri L., Milan, Italy, assignor to Ruthaldo Company (Inc.), New York, N. Y. Producing cellulose esters. 1,943,507; Jan. 16.
Basaick Company, The. (See Phillips, Ross M. G., assignor.)
Bates, Arthur, and F. B. Keall, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. 1,943,411; Jan. 16.
Bates, Ralph I., assignor to Delco Products Corporation, Dayton, Ohio. Shock absorber. 1,943,911; Jan. 16.
Battelle Memorial Institute, The. (See Hobart, Floyd B., assignor.)
Bauersfeld, Walther, assignor to the firm Carl Zeiss, Jena, Germany. Apparatus for illuminating microscopic objects. 1,943,509; Jan. 16.
Bauersfeld, Walther, assignor to the firm Carl Zeiss, Jena, Germany. Apparatus for projecting luminous dashes and dots on a dark ground. 1,943,511; Jan. 16.
Bauersfeld, Walther, and M. Hübschmann, assignors to the firm Carl Zeiss, Jena, Germany. Instrument for rapid examination of transparent microscopic preparations. 1,943,508; Jan. 16.
Bauersfeld, Walther, and A. Köhler, assignors to the firm Carl Zeiss, Jena, Germany. Device for light-field and dark-field illumination of microscopic objects. 1,943,510; Jan. 16.
Baumann, Karl, Barnfield, England. Steam generator. 1,944,059; Jan. 16.
Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel and making the same. 1,943,412; Jan. 16.
Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for trimming covers of heels. 1,943,413; Jan. 16.
Beauty Utilities, Inc. (See Gentile, Virginio J., assignor.)
Becker, Arman E., and R. G. Sloane, Elizabeth, N. J., assignor to Standard Oil Development Company. Manufacture of soap-oil compositions. 1,943,806; Jan. 16.
Becker, Morris W., Brooklyn, N. Y. Swift. 1,943,512; Jan. 16.
Becket, Frederick M., New York, N. Y., assignor to Electro Metallurgical Company. Corrosion resistant article. 1,943,782; Jan. 16.
Beckwith, Clinton H., Geneva, assignor to Crane Co., Chicago, Ill. Motor operated valve. 1,943,854; Jan. 16.
Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric valve converting apparatus and operating the same. 1,944,060; Jan. 16.
Beers, Samuel C. (See Stidd, Irvin, assignor.)
Behrman, Marcus B., assignor to American Safety Razor Corporation, Brooklyn, N. Y. Safety razor. 1,943,414; Jan. 16.
Behrman, Marcus B., assignor to American Safety Razor Corporation, Brooklyn, N. Y. Safety razor and blade. 1,943,415; Jan. 16.
Bell, Bertie D., Renton, Wash. Trolling spinner. 1,943,283; Jan. 16.
Beiswenger, Gustav A. (See Child, W. C., and Beiswenger.)
Bell, Guy A., Burlingame, Calif. Fuel injection device for internal combustion engines. 1,943,718; Jan. 16.
Bellanca, Giuseppe M., New Castle, Del. Landing gear. 1,943,783; Jan. 16.
Bellavia, Peter, Garwood, N. J. Secretary. 1,943,282; Jan. 16.
Beller, Hans. (See Franzen, H., Beller, and Luther.)
Bellerive, Joseph S. D., St.-Agathe-des-Monts, Quebec, Canada. Tool handle. 1,943,807; Jan. 16.
Bemis Bro. Bag Co. (See Litchfield, Isaac W., assignor.)
Bender, Frederic H., Chicago, assignor to General Steel Castings Corporation, Granite City, Ill. Railway hopper car structure. 1,943,294; Jan. 16.
Bender, Howard L., Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y. Moldable composition and its product. 1,944,143; Jan. 16.
Bendix Aviation Corporation. (See Copeland, Charles W., assignor.)
Bendix Aviation Corporation. (See Perrot, Henri, assignor.)
Bendix Aviation Corporation. (See Warren, Kenneth W., assignor.)
Bendix Brake Company. (See Carroll, Eugene G., assignor.)
Bendix Brake Company. (See Delahaye, Walter H., assignor.)
Bendix Brake Company. (See Fortini, Arturo, assignor.)
Bendix Brake Company. (See House, Bryan E., assignor.)
Bendix Brake Company. (See LaBrie, Ludger E., assignor.)
Bendix Brake Company. (See Norton, Raymond J., assignor.)
Bendix Brake Company. (See Sanford, Roy S., assignor.)
Bennett, Harold C. (See Emery, G. G., Knowlton, and Bennett.)
Bentley, James B. (See Simpson, W. T., and Bentley.)
Benton, Lawrence G., Pompton Lakes, and H. R. Tate, Elizabeth, N. J., and E. R. Lewtas, Brooklyn, N. Y., assignors to Standard Oil Development Company. Rust proofing oil. 1,943,808; Jan. 16.
Berggren, Nels. (See Barclay, R. E., and Berggren.)
Beryllium Corporation. (See Smith, Joseph K., assignor.)
Betz, Charles F., East St. Louis, Ill. Piston pin assembly. 1,943,364; Jan. 16.
Beverly, Clark L., Columbus, Ohio. Oven door. 1,944,061; Jan. 16.
Blane, Frank J., Cucamonga, and S. B. Rowe, Upland, Calif. Apparatus for carbonating liquids in receptacles. 1,943,753; Jan. 16.
Bieber, Clarence G. (See Mudge, W. A., and Bieber.)
Bigelow, George E., Southgate, and A. R. Wels, assignors of one-half to Pacific Pump Works, Huntington Park, Calif. Pressure reducing seal for centrifugal pumps. 1,943,578; Jan. 16.
Bigelow-Sanford Carpet Co. (See Coyle, Joseph A., assignor.)
Bilz-Em Toys, Inc. (See Gruenberg, Walter A., assignor.)
Binau, George R., Allerton, Iowa. Corn picker and means for attaching the same to a tractor. 1,943,284; Jan. 16.
Bischof, Paul New York, N. Y. Take-up device for stranded cables. 1,943,809; Jan. 16.
Biva, Lucien, Brooklyn, assignor to F. F. Timme & Son, New York, N. Y. Rug. Des. 91,346; Jan. 16.
Bley, Rudolph S., Washington, D. C. Pharmaceutical preparation. 1,943,467; Jan. 16.
Block, William I., Maywood, Ill., assignor to American Can Company, New York, N. Y. Advertising device. 1,943,295; Jan. 16.
Blomquist, Charles E., assignor to Butler Manufacturing Company, Kansas City, Mo. Hair drying helmet. 1,943,579; Jan. 16.
Blue, Sidney D., New York, N. Y. Shirt. 1,943,885; Jan. 16.
Blum, Richard, Berlin, Germany. Cigarette package. 1,943,810; Jan. 16.
Board of Trustees University of Illinois, The. (See Paine, E. B., Tykocinski-Tykociner, and Brown, assignors.)
Bollinger, Howard M., Washington, D. C. Supporting means for electric conductors and cables. 1,943,912; Jan. 16.
Borchers, William G., assignor to Autographic Register Company, Hoboken, N. J. Manifolding. 1,944,118; Jan. 16.
Borden, Charles R. C., Brookline, Mass. Bath sponge or the like. 1,943,365; Jan. 16.
Borg-Warner Corporation. (See Swennes, Benjamin A., assignor.)
Bonsfield, Alfred, assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Health scale. 1,943,651; Jan. 16.
Bouwers, Albert, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. X-ray apparatus for crystallographic examination and like purposes. 1,944,062; Jan. 16.
Bowen, Kenneth H. (See Doman, A. E. Bowen, and Gleason.)
Bowen Products Corporation. (See Doman, A. E., Bowen, and Gleason, assignors.)

Boyce, Robert E., Chester, W. Va. Rolling pin container. Des. 91,347; Jan. 16.
Boyland, Frank M., New York, N. Y. Wall construction. 1,943,285; Jan. 16.
Braden, Rene A., New York, N. Y., assignor to Radio Corporation of America. Band pass amplifier. 1,943,416; Jan. 16.
Braden, Rene A., Merchantville, N. J., assignor to Radio Corporation of America. Convertible band pass receiver. 1,944,119; Jan. 16.
Braden, Rene A., assignor to Radio Corporation of America, Merchantville, N. J. Convertible band pass amplifier coupling. 1,944,120; Jan. 16.
Brainerd, Kenneth, assignor to The Brainerd Manufacturing Co., East Rochester, N. Y. Door-latch. 1,943,946; Jan. 16.
Brainerd Manufacturing Co., The. (See Brainerd, Kenneth, assignor.)
Branick, Charles E., assignor to Branick Manufacturing Company, Incorporated, Fargo, N. Dak. Automatic tire spreader. 1,943,784; Jan. 16.
Branick Manufacturing Company. (See Branick, Charles E., assignor.)
Brauner, Fritz, Wien, Austria. Loading device specially for trucks. 1,944,063; Jan. 16.
Brewer, Charles A., Noroton Heights, and P. J. Kury, Arverne, N. Y. Brake control. 1,943,296; Jan. 16.
Bridgeman, Walter A., and J. A. Schade, assignors to The Wilbur White Chemical Company, Oswego, N. Y. Wax emulsion coating, and coating process. 1,943,468; Jan. 16.
Bridgeport Metal Goods Manufacturing Company, The. (See Fullmer, Giles C., assignor.)
Bringman, George W., Cleveland, Ohio. Attachment for aquarium tanks. 1,943,417; Jan. 16.
Bristol Company, The. (See Mansure, Arthur J., assignor.)
Brown, Charles S., Syracuse, N. Y. Roller bearing construction. 1,943,418; Jan. 16.
Brown, Charles S., Syracuse, N. Y. Tapered roller bearing. 1,943,419; Jan. 16.
Brown, Freeman L., Oaklyn, N. J., assignor to Radio Corporation of America. Motion picture gate. 1,943,366; Jan. 16.
Brown, Hugh A. (See Paine, E. B., Tykocinski-Tykociner, and Brown.)
Brown Lynch Scott Co. (See Flatley, John H., assignor.)
Brown, Mortimer J., Niagara Falls, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Conducting catalytic reactions. 1,943,580; Jan. 16.
Brün, Willi, Bridgeport, Conn., assignor to Remington Arms Company, Inc. Chemical compound. 1,943,513; Jan. 16.
Bryant, Louis P., et al. (See Haydel, Whitney A., assignor.)
Buckley, George L. (See Irmscher, H., and Buckley.)
Budd, Edward G., Manufacturing Company. (See Paugh, James J., assignor.)
Budd, Edward G., Manufacturing Company. (See Ragsdale, Earl J. W., assignor.)
Budd, Robert D., assignor to Pierce Steel Pile Corporation, New York, N. Y. Pile driving head. 1,943,420; Jan. 16.
Buhr, Leo J., Lake Zurich, Ill. Illuminated card holder. 1,943,719; Jan. 16.
Bundick, Clarkson U., White Plains, and B. A. Proctor, assignors, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y. Apparatus for feeding materials. 1,944,022; Jan. 16.
Bungay, George W., Plainfield, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa. Tire mold. 1,943,947; Jan. 16.
Burg, Eugen, Essen, Germany. Burner for furnaces. 1,943,286; Jan. 16.
Burnham, William C., Fair Oaks, Calif. Wire connecter means. 1,943,514; Jan. 16.
Burns, Robert, and O. W. Strickland, Stevenston, Scotland, assignors to Imperial Chemical Industries Ltd. Propellent explosive. 1,943,421; Jan. 16.
Burrough, James M., Tipton, Iowa. Self-filling fountain pen. 1,943,785; Jan. 16.
Burrowes Corporation, The. (See Ricker, Frank L., assignor.)
Bush, H. F., et al. (See Wilkins, Charles L., assignor.)
Butler, Cora A., Chicago, Ill. Vehicle body construction. 1,943,581; Jan. 16.
Butler Manufacturing Company. (See Blomquist, Charles E., assignor.)
Buttaci, Joseph, Corona, and J. J. Goers, New Dorp, Staten Island, N. Y. Welding rod holder. 1,943,754; Jan. 16.
Byer, Moses J., Orono, Maine. Folding cot. 1,944,064; Jan. 16.
Calaveras Cement Co. (See Dunton, Harold J., assignor.)
Caldwell, Charles H., Brockton, assignor to Geo. E. Keith Company, Campello, Mass. Shoe. Des. 91,348; Jan. 16.
Caldwell, Charles H., Brockton, assignor to Geo. E. Keith Company, Campello, Mass. Shoe. Des. 91,349; Jan. 16.
Camel Company. (See Heinen, Frederick C., assignor.)
Camel Company. (See Treptow, George R., assignor.)
Campbell, Donald J., Spring Lake Township, Ottawa County, assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon Heights, Mich. Casting brake drums. 1,943,720; Jan. 16.

Campbell, Lorn, jr., Cleveland, Ohio. Braking system for land vehicle trains. 1,943,287; Jan. 16.
Campbell, Wyant & Cannon Foundry Company. (See Campbell, Donald J., assignor.)
Caneps Company, John B., The. (See Zimmerman, Lester R., assignor.)
Cantwell, Joseph M., Delmar, assignor of one-half to E. J. B. Murray, Albany, N. Y. Device for wringing hot packs and the like. 1,943,755; Jan. 16.
Capital Paper Company. (See Kahn, Samuel C., assignor.)
Capstan Glass Company. (See Piazzoli, Theodore J., assignor.)
Carbide and Carbon Chemicals Corporation. (See Fife, Harvey R., assignor.)
Carbondale Machine Company, The. (See Baer, Alvin H.)
Card, William C., jr., Waverly, Mass., assignor to Compo Shoe Machinery Corporation, New York, N. Y. Upper-roughing machine. 1,943,422; Jan. 16.
Carpenter, Miles H., New Rochelle, and C. B. Kirkham, Freeport, N. Y. Independently sprung wheel mounting for motor vehicles. 1,943,721; Jan. 16.
Carroll Arch P. (See Willmore, K. N., Carroll, and Stucker.)
Carroll, Eugene G., Los Angeles, Calif., assignor, by mesne assignments, to Bendix Brake Company, South Bend, Ind. Brake apparatus. 1,943,886; Jan. 16.
Carter, Bernard M., Montclair, N. J., assignor to General Chemical Company, New York, N. Y. Heat exchange apparatus. 1,943,855; Jan. 16.
Castner, James B., Woodbury, and R. W. Powers, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of raw materials for the manufacture of iron red dry colors. 1,943,948; Jan. 16.
Caston, Johnnye L., assignor to The Sterling Company, Chicago, Ill. Dress. Des. 91,382; Jan. 16.
Castro, Manuel, Canton, Ohio. Cargo handling apparatus for aircraft and the like. 1,944,000; Jan. 16.
Caterpillar Tractor Co. (See Radford, William H., assignor.)
Caterpillar Tractor Co. (See Thoen, Lowell H., assignor.)
Celanese Corporation of America. (See Ellis, George H., assignor.)
Celanese Corporation of America. (See Taylor, William I., assignor.)
Celotex Company, The. (See Lathrop, E. C., and Irvine, assignors.)
Cement Gun Company. (See Domina, Georg, assignor.)
Cement Gun Company. (See Stewart, E. P., and Frost, assignors.)
Central Commercial Company. (See Gundlach, Henry R., assignor.)
Chamberlain, Rufus N., Chicago, Ill., assignor, by mesne assignments, to Gould Storage Battery Corporation, Depew, N. Y. Low voltage storage battery. 1,944,065; Jan. 16.
Chamberlain, Rufus N., Chicago, Ill., assignor, by mesne assignments, to Gould Storage Battery Corporation, Depew, N. Y. Storage battery. 1,944,066; Jan. 16.
Champion Anti-Rattler Co. (See Meiners, Joseph G., assignor.)
Champion, Wilburn D., Pampa, Tex. Oil and water separator, and petroleum purifier. 1,943,367; Jan. 16.
Champion, Wilburn D., Pampa, Tex. Oil and water separator and petroleum purifier. 1,943,368; Jan. 16.
Chandler, David G., and R. T. Svendsen, Minneapolis, Minn. Outboard propeller and rudder mounting. 1,943,288; Jan. 16.
Chemipulp Process, Inc. (See Schoenwerk, Otto C., assignor.)
Chester, Alden P., and D. H. Hill, assignors to Globe American Corporation, Kokomo, Ind. Oven control. 1,943,582; Jan. 16.
Chicago Belting Company. (See Ball, Charles A., assignor.)
Chicago Printed String Co. (See Weiner, Charles, assignor.)
Chicago Pump Company. (See Durdin, Augustus C., 3rd, assignor.)
Chicago Roller Skate Company. (See Ware, Robert R., assignor.)
Child, William C., Roselle, and G. A. Beiswenger, Elizabeth, N. J., assignors to Standard Oil Development Company. Method and apparatus for filtering hydrocarbon oils. 1,943,811; Jan. 16.
Christen, Victor H., Detroit, Mich. Windshield wiper clip. 1,943,652; Jan. 16.
Christensen, Andreas, Rhinelander, Wis., assignor to Fibre Making Processes, Inc., Chicago, Ill. Digester system. 1,943,289; Jan. 16.
Christman, William T., Mount Lebanon, assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa. Tea kettle. Des. 91,350; Jan. 16.
Christman, William T., Mount Lebanon, assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa. Combined cooking kettle and cover therefor. Des. 91,351; Jan. 16.
Christman, William T., Mount Lebanon, assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa. Combined cooking pan and cover therefor. Des. 91,352; Jan. 16.
Ciglia, Ernest F., Scarsdale, and L. F. Pelletier, East Bronx, N. Y. Carburetor. 1,943,812; Jan. 16.

Cinemacolor Corporation. (See Menke, Harry W., assignor.)
Clarke, Frank F., New York, N. Y. Aircraft. 1,943,290; Jan. 16.
Clarke, William E., Toronto, Ontario, Canada. Carbon paper. 1,943,722; Jan. 16.
Cleveland Graphite Bronze Company. (See Stockfleth, B., and Sherwood, assignors.)
Cleveland Steel Products Corporation. (See Smith, William J., assignor.)
Cluett, Peabody & Co. (See Cluett, Sanford L., assignor.)
Cluett, Sanford L., assignor to Cluett, Peabody, & Co., Inc., Troy, N. Y. Apparatus for treating fabrics. 1,944,001; Jan. 16.
Coates, Herbert J., Erdington, Birmingham, assignor to The General Electric Company, Limited, London, England. Control system for power plants comprising electric motors and prime movers. 1,943,369; Jan. 16.
Cobb, Herbert B., Chelsea, Mass., assignor to Semet-Solvay Company, New York, N. Y. Removal of phenols from ammonia liquors. 1,943,653; Jan. 16.
Cobb, William F. (See Barnes, T. E., and Cobb.)
Cochrane Corporation. (See Gibson, G. H., and Roblin, assignors.)
Coghlan, Thomas G., Elizabeth, and E. A. Johnsen, deceased, Mountain Lakes, N. J., by S. A. Johnsen, Brooklyn, N. Y., executrix. Furnace. 1,943,949; Jan. 16.
Cohen, Joseph H., Bridgeport, Conn. Wire reel. 1,943,913; Jan. 16.
Collings, Frederick C., Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Monitor printer system for quotation boards. 1,943,654; Jan. 16.
Collins, Claude R., New York, N. Y. Fountain toothbrush. 1,944,067; Jan. 16.
Communication Patents, Inc. (See Nicolson, Alexander M., assignor.)
Compo Shoe Machinery Corporation. (See Card, William C., jr., assignor.)
Condit Electrical Manufacturing Corporation. (See Macneil, Frederick H., assignor.)
Connolly, Gerald C., and A. F. Wurzbacher, assignors, by mesne assignments, to C. F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md. Refining liquid hydrocarbons. 1,943,583; Jan. 16.
Connors, John W., Washington, D. C. Transmission gearing for automotive vehicles. 1,944,069; Jan. 16.
Conover Company, The. (See Stoddard, Edgar S., assignor.)
Continental Motors Corporation. (See Meyer, Andre J., assignor.
Continental Oil Company. (See Ramsey, Erle M., assignor.)
Cook, George C., Millington, N. J. Cinder or dust collector. 1,943,297; Jan. 16.
Cope, Ruth E. (See Holles, Frank A., assignor.)
Copeland, Charles W., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake fluid. 1,943,813; Jan. 16.
Copeland Products, Inc. (See Ruthenburg, L., Replogle, and McPhail, assignors.)
Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)
Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerating system. Re19,055; Jan. 16.
Cornet, Manuel G., Madrid, Spain. Coupling for vehicles. 1,943,370; Jan. 16.
Corse, Herbert M., Jacksonville, Fla. Fuel control system. 1,944,068; Jan. 16.
Cory, Joseph F., Oklahoma City, Okla. Automatic change-over control. 1,943,950; Jan. 16.
Cottam, Charles A., Chattanooga, Tenn., assignor to International Combustion Engineering Corporation, New York, N. Y. Calking device. 1,943,723; Jan. 16.
Cowell, Robert F., Phelps Manor, Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Aerial trussed ladder. 1,943,724; Jan. 16.
Cowles, Alfred H., deceased, Sewaren, N. J., by E. L. Prentiss, Brooklyn, N. Y., executor, assignor to The Electric Smelting & Aluminum Company, Cleveland, Ohio. Separating alumina from alkali metal aluminate solutions. 1,943,786; Jan. 16.
Coyle, Joseph A., Amsterdam, N. Y., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Tuft pile fabric loom. 1,944,121; Jan. 16.
Crane Co. (See Beckwith, Clinton H., assignor.)
Croft, Robert J. (See Morrison, R. T., and Croft.)
Cross, Earl F., Elmhurst, Ill., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. End lock for rolling shutters. 1,943,371; Jan. 16.
Cross, Roy, assignor to Silica Products Co., Kansas City, Mo. Inorganic gel composition. 1,943,584; Jan. 16.
Cross, Roy, assignor to Silica Products Company, Kansas City, Mo. Dental preparation. 1,943,856; Jan. 16.
Crumb, Carlton W. (See Moore, C. W., and Crumb.)
Cummings, Charles D., Tully, assignor to Syracuse Chilled Plow Company Inc., Syracuse, N. Y. Sprayer. 1,943,655; Jan. 16.
Cummins, Norman W., and J. A. Johnson, Louisville, Ky. Detachable handle for cooking utensils. 1,943,585; Jan. 16.
Cunningham, Homer B., and J. W. Tucker, Connellsville, Pa. Journal lubricator. 1,943,298; Jan. 16.
Curtin, Frank G., Medford, Mass. Flushing valve. 1,943,951; Jan. 16.
Cutler-Hammer, Inc. (See Giard, E. A., and Fritz, assignors.)
Cutting, Charles D., assignor to C. D. Cutting, Inc., Detroit, Mich. Universal joint. 1,943,814; Jan. 16.
Cutting, Charles D., Inc. (See Cutting, Charles D., assignor.)
Dahl, Oscar, La Rochelle, France, assignor to V. D. Limited, London, England. Free ground-rope trawl gear. 1,943,872; Jan. 16.
Daigre, Joe A., et al. (See Haydel, Whitney A., assignor.)
Daniel, Lloyd C. (See Jaeger, A. O., and Daniels.)
Dapron, Joseph M., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pedal locking device. 1,943,586; Jan. 16.
Dargue, William H., Newcastle-upon-Tyne, England. Miner's safety acetylene lamp. 1,943,952; Jan. 16.
Daukus, John F., Detroit, Mich. Cushion flywheel. 1,943,517; Jan. 16.
Dauplaise, Noah L., Manchester, Conn., assignor, by mesne assignments, to Dauplaise Safety Equipment Corporation, Springfield, Mass. Picture projection machine. 1,943,299; Jan. 16.
Dauplaise Safety Equipment Corporation. (See Dauplaise, Noah L., assignor.)
Davey, George W., Mahwah, N. J. Furnace construction. 1,943,756; Jan. 16.
Davis, Elmer M., assignor to Swift and Company, Chicago, Ill. Butter packing. 1,943,587; Jan. 16.
Davis, Ernest W., Oak Park, assignor to Alemite Corporation, Chicago, Ill. Grease dispensing apparatus. 1,943,515; Jan. 16.
Davis, Francis W., Waltham, Mass. Multiple hydraulic system. 1,944,002; Jan. 16.
Davis, Jesse H., Baltimore, Md., assignor to B. F. Sturtevant Company, Boston, Mass. Air conditioning apparatus for passenger cars. 1,943,516; Jan. 16.
Deere & Company. (See White, Charles H., assignor.)
De Groote, Melvin, St. Louis, assignor to Tretolite Company, Webster Groves, Mo. Breaking petroleum emulsions. 1,943,815; Jan. 16.
Delahaye, Walter H., Ottawa, Ontario, Canada, assignor to Bendix Brake Company, South Bend, Ind. Automatic adjusting device for brakes. 1,943,816; Jan. 16.
Delaney, Ada W., Estate of. (See Delaney, John H., assignor.)
Delaney, John H., deceased, Los Angeles, Calif., Union Bank & Trust Co. of Los Angeles, administrator, assignor to estate of Ada W. Delaney, deceased. Soundproof board and making same. 1,943,757; Jan. 16.
Delaware Chemical Engineering Company. (See Nagelvoort, Adriaan, assignor.)
Delco Products Corporation. (See Aseltine, Fred E., assignor.)
Delco Products Corporation. (See Bates, Ralph I., assignor.)
Delco Products Corporation. (See Elsey, George W., assignor.)
Del Mar, Harry, New York, N. Y. Direct-indirect water heating system. 1,943,373; Jan. 16.
Del Mar, William A., Greenwich, Conn., assignor to Habirshaw Cable and Wire Corporation, New York, N. Y. Electric cable. 1,944,003; Jan. 16.
Del Mar, William A., Greenwich, Conn., assignor to Habirshaw Cable and Wire Corporation, New York, N. Y. Electric cable. 1,944,004; Jan. 16.
Del Mar, William A., Greenwich, Conn., assignor to Habirshaw Cable and Wire Corporation, New York, N. Y. Pressure reservoir with fabric bag. 1,944,005; Jan. 16.
Denney, John M., Depew, Okla. Pipestem liner. 1,943,518; Jan. 16.
Denning, Paul S., Joliet, Ill., assignor of one-half to The Wyodak Chemical Company, Cleveland, Ohio, and one-half to F. E. Schundler & Company, Inc., Joliet, Ill. Washing composition. 1,943,519; Jan. 16.
Dennis, Basil W., Columbus, Ohio, assignor to General Fire Extinguisher Company, Providence, R. I. Gasket. 1,944,135; Jan. 16.
Detachable Bit Corporation of America. (See Rea, Walter C., assignor.)
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. (See Röka, Koloman, assignor.)
De Voe, Albert H., Westfield, N. J. Seam for sewed articles and making same. 1,943,300; Jan. 16.
De Voe, Albert H., Westfield, N. J. Sewing machine. 1,943,301; Jan. 16.
Diamond Chain and Manufacturing Company. (See Gallamore, Oliver H., assignor.)
Diamond Match Company, The. (See Molyneaux, Edward J., assignor.)
Diamond Match Company, The. (See Paridon, Michael, assignor.)
Dickinson, Henry R. (See Simpson, W. T., and Bentley, assignors.)
Dilling, Harvey N., Trail, British Columbia, Canada. Stoker for pulverised fuel. 1,943,876; Jan. 16.
"Dimoha". (See Zaschka, Englebert, assignor.)
Dinstbir, Howard J., Butler, Pa. Roof structure. 1,943,588; Jan. 16.
Dixon, H. L., Company. (See Porter, Samuel A., assignor.)
Doman, Albert E., Kibridge. K. H. Bowen, and F. H. Gleason, assignors to Bowen Products Corporation, Auburn, N. Y. Thermostatic heat regulator. 1,943,656; Jan. 16.

Domina, Georg, Berlin, Germany, assignor to Cement Gun Company. Apparatus for backfilling and the like. 1,943,589; Jan. 16.
Donahue, John V., Kokomo, Ind., assignor to United States Gypsum Company, Chicago, Ill. Lock corner shingle. 1,943,953; Jan. 16.
Douglas, Harry A., Bronson, Mich. Snap terminal. 1,943,590; Jan. 16.
Douglas, Harry A., Bronson, Mich. Electrical connecter. 1,943,591; Jan. 16.
Douglass, William A., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentrating ores and minerals by flotation. 1,943,758; Jan. 16.
Dow, Jennings B., Alexandria, Va. Oscillator system. 1,943,302; Jan. 16.
Dowd, Raymond E., Staten Island, assignor to The Russell Manufacturing Company, Middletown, Conn. Shock absorbing strut for aeroplanes. 1,943,887; Jan. 16.
Drabin, John J. (See Koulichkov, S. N., and Drabin.)
Dreyfus, Camille, New York, N. Y. Foodstuff. 1,943,374; Jan. 16.
Dreyfus, Henry, London, England. Manufacture of alkyl ethers of hydroxy aliphatic acids. 1,943,375; Jan. 16.
Druge, Daniel O. (See Druge, Otto C. and D. O.)
Druge, Otto C., and D. O. Druge, Oakland, Calif. Air pressure gauge. 1,943,469; Jan. 16.
Drury, Dorothy S., Los Angeles, Calif. Shoe tree. 1,943,657; Jan. 16.
Dudley, Oscar E., and C. Lucid, Houston, Tex., assignors to The Texas Company, New York, N. Y. Creating artificial seismic waves. 1,943,725; Jan. 16.
Dunfield, Walter W., Yonkers, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Rubber adhesive. 1,943,423; Jan. 16.
Dunfield, Walter W., Yonkers, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Rubber adhesive. 1,943,424; Jan. 16.
Dunlevy, Paul C. (See Mooney, Howard B., assignor.)
Dunlop Rubber Company Limited. (See Tauber, S., and Fischmann, assignors.)
Dunn, Holbert E. (See Walker, G. E., Marshall, and Dunn.)
Dunnebier, Max. (See Winkler, A., and Dunnebier.)
Dunton, Harold J., San Andreas, assignor to Calaveras Cement Co., San Francisco, Calif. Grinding Portland cement. 1,943,817; Jan. 16.
Du Pont, E. I., de Nemours and Company. (See Brown, Mortimer J., assignor.)
Du Pont, E. I., de Nemours and Company. (See Castner, J. B., and Powers, assignors.)
Du Pont, E. I., de Nemours and Company. (See Douglass, William A., assignor.)
Du Pont, E. I., de Nemours and Company. (See Gilbert, Harvey N., assignor.)
Du Pont, E. I., de Nemours and Company. (See Izard, Emmette F., assignor.)
Du Pont, E. I., de Nemours and Company. (See Kharasch, Morris S., assignor.)
Du Pont, E. I., de Nemours and Company. (See Richardson, Roger W., assignor.)
Du Pont, E. I., de Nemours and Company. (See Williams, Carl S., assignor.)
Durdin, Augustus C., 3d., assignor to Chicago Pump Company, Chicago, Ill. Portable cooler. 1,943,857; Jan. 16.
Durner, Loren, Waterbury, Conn. Pressure gauge damping device. 1,943,954; Jan. 16.
Dwight, Arthur S., Great Neck, N. Y., assignor to Dwight & Lloyd Sintering Company, Inc., New York, N. Y. Cellular material and manufacturing same. 1,943,858; Jan. 16.
Dwight & Lloyd Sintering Company. (See Dwight, Arthur S., assignor.)
Dyckma, Bertha M., Chicago, Ill. Manufacture of beaded fabric. 1,943,658; Jan. 16.
Eason, Harrison G., assignor of one-half to J. Wilbur, Lakewood, Ohio. Christmas tree holder. 1,943,659; Jan. 16.
Eaton, George R., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Diaphragm. 1,943,425; Jan. 16.
Eclipse Aviation Corporation. (See Allen, Joseph W., assignor.
Eclipse Aviation Corporation. (See Hyland, Lawrence A., assignor.
Eclipse Aviation Corporation. (See Nowosielski, Edward B., assignor.)
Edison, Thomas A., Incorporated. (See Johnson, Claude T., assignor.)
Edwards, Ray, Coalinga, Calif. Electrical connecter. 1,943,660; Jan. 16.
Efcolite Corporation. (See von Nessen, Walter, assignor.)
Ege, Gustav, assignor to Norma-Hoffman Bearings Corporation, Stamford, Conn. Ball-bearing edge. 1,943,955; Jan. 16.
Eisele, Karl, Newark, N. J. Package opener. 1,943,956; Jan. 16.
Eklund, Ebba C. M., Lund, Sweden. Drying frame. 1,943,726; Jan. 16.
Electric Smelting & Aluminum Company, The. (See Cowles, Alfred H., assignor.)
Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
Ellacott, Victor H., Spring Valley, Minn. Stapling machine. 1,943,661; Jan. 16.
Elliott-Fisher Company. (See Gorin, Frederick P., assignor.)
Elliott-Fisher Company. (See Pitman, Henry L., assignor.)
Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of cellulose esters. 1,943,377; Jan. 16.
Elms, John D., Staten Island, assignor to Films Revo Corporation, New York, N. Y. Motion picture camera. 1,943,378; Jan. 16.
Elsey, George W., assignor to Delco Products Corporation, Dayton, Ohio. Pressure regulator for pressure presses. 1,943,520; Jan. 16.
Emco Manufacturing Company. (See Mortimer, Winfield F., assignor.)
Emerson, Clifford C., Portland, Maine. Humidifier. 1,943,379; Jan. 16.
Emery, Frederick L. (See Morey, E., and Stimpson, assignors.)
Emery, George G., Sanford, R. W. Knowlton, and H. C. Bennett, Westbrook, assignors to Sanford Mills, Sanford, Maine. Needle loom. 1,943,662; Jan. 16.
Emery, Grace H., executrix. (See Morey, E., and Stimpson.)
Empire Oil & Refining Company. (See Walker, John C., assignor.)
Equipment Specialties Company. (See Lundvall, John, assignor.)
Equitable Paper Bag Co. (See Poppe, George W., assignor.)
Erb-Joyce Foundry Company. (See Udale, Stanley M., assignor.)
Ericson, Richard, assignor to United States Gypsum Company, Chicago, Ill. Tile board and manufacturing same. 1,943,663; Jan. 16.
Esdorn, John H., New Rochelle, N. Y. Crown molding. 1,944,070; Jan. 16.
Essmann, Heinrich A. L., Altona-Klein-Flottbek, assignor to the firm Ottensener Waagenfabrik Albert Essmann & Co., Altona-Ottensen, Germany. Weighing device or balance. 1,944,071; Jan. 16.
Everett & Barron Company. (See McPhee, Clement S., assignor.)
Ewald, Carl A., Seattle, Wash. Water bed. 1,943,888; Jan. 16.
Ewald, Waldemar, Berlin-Lichterfelde-Ost, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Lens for optical purposes. 1,943,521; Jan. 16.
Fabbrica Italiana Magneti Marelli Societa Anonima. (See Quintavalle, Umberto, assignor.)
Fabrick, Walter, Elgin, Ill. Fruit jar sealer and tightener. 1,943,470; Jan. 16.
Fairbanks, E. and T., and Company. (See Bousfield, Alfred, assignor.)
Fairweather, David A. W., and J. Thomas, assignors to Scottish Dyes, Limited, Grangemouth, England. Dyeing and the like. 1,943,787; Jan. 16.
Fansteel Products Company. (See Austin, Miner M., assignor.)
Fantone, Charles B., Lyndhurst, and R. M. Jameson, Teaneck, assignors to Syncro Machine Company, Arlington, N. J. Apparatus for coating wire. 1,943,818; Jan. 16.
Fanzoi, John. (See Rhodes, M. H., and Fanzoi.)
Farb- & Gerbstoffwerke Car Flesch jr. (See Huttenlocher, Richard, assignor.)
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air strainer. 1,943,592; Jan. 16.
Farnham, Paul O., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Dynatron circuit. 1,943,471; Jan. 16.
Farnham, Paul O., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Multirange superheterodyne receiver. 1,943,788; Jan. 16.
Farnham, Paul O., and H. F. Arrigento, assignors to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Radioreceiver. 1,943,789; Jan. 16.
Fear, Ralph G., Los Angeles, Calif. Pump and motor mechanism. 1,943,664; Jan. 16.
Federal Electric Company. (See Barclay, R. E., and Berggren, assignor.)
Federal Electric Company. (See Hammar, Herbert G., assignor.)
Federal Enameling & Stamping Company. (See Christman, William T., assignor.)
Fibre Making Processes, Inc. (See Christensen, Andreas, assignor.)
Fife, Harvey R., assignor to Carbide and Carbon Chemicals Corporation, Pittsburgh, Pa. Gas scrubbing. 1,944,122; Jan. 16.
Films Revo Corporation. (See Elms, John D., assignor.)
Flock, John, Olney, Ill.; M. G. Flock, administratrix of said John G. Flock, deceased. Raising sunken pavement and the like. 1,943,914; Jan. 16.
Flock, Mathilda G., administratrix. (See Flock, John, assignor.)
Fischer, John R., and J. G. Sola, assignors to Sola Corporation, Chicago, Ill. Ozonator. 1,943,426; Jan. 16.
Fischmann, Ladislaus. (See Tauber, S., and Fischmann.)
Fisher, Edwin H., assignor to Fisher Scientific Company, Pittsburgh, Pa. Gas burner. 1,945,859; Jan. 16.
Fisher Scientific Company. (See Fisher, Edwin H., assignor.)

Fitch, Ellery R., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,943,593; Jan. 16.

Fitz Gerald, Alan S., Wynnewood, Pa., assignor to General Electric Company. Automatic reclosing circuit breaker system. 1,944,072; Jan. 16.

Flanders, Warren B., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine power plant. 1,943,860; Jan. 16.

Flatley, John H., Little York, assignor to Brown Lynch Scott Co., Monmouth, Ill. Combined connecting and adjusting device. 1,943,594; Jan. 16.

Fleischhauer, Richard, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo-dyestuffs. 1,943,727; Jan. 16.

Fleischmann, Jacob A., W. W. and F. O. Sullivan, assignors to Gardner Abbott, Cleveland, Ohio. Photogelatin printing. 1,944,123; Jan. 16.

Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Standing valve control apparatus. 1,943,522; Jan. 16.

Floor Accessories Company. (See Awbrey, Samuel C., assignor.)

Fluga Aktiengesellschaft. (See Heylandt, Christian W. P., assignor.)

Fogg, Lewis W., Youngstown, and G. W. Lentz, Canton, Ohio. Forming tubular articles. 1,944,073; Jan. 16.

Foley, Francis B., Philadelphia, Pa. Hardened alloy steel and hardening same. 1,943,595; Jan. 16.

Food Machinery Corporation. (See Moe Andrew O., assignor.)

Ford, George W., Kensington, London, England, assignor, by mesne assignments, to Kinatome Patents Corporation. Holder for cinematograph films and the like. 1,944,023; Jan. 16.

Ford, George W. (See Ponting, H. G., and Ford.)

Ford Motor Company. (See Hicks, Harold A., assignor.)

Ford Motor Company. (See McCarroll, R. H., and Vennerholm, assignors.)

Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Interconnected brake and door system for vehicles. 1,943,819; Jan. 16.

Forter, Samuel A., assignor to H. L. Dixon Company, Pittsburgh, Pa. Method and apparatus for operating furnaces. 1,944,074; Jan. 16.

Fortini, Arturo, deceased, Florence, Italy, L. Fortini, administrator, assignor to Bendix Brake Company, South Bend, Ind. Vehicle braking system. 1,944,144; Jan. 16.

Fortini, Lodovico, administrator. (See Fortini, Arturo.)

Foster, Warren D. (See Laug, J. P., and Foster.)

Foster, Warren D., Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, New York, N. Y. Photographic apparatus. 1,943,303; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, New York, N. Y. Film-handling apparatus. 1,943,304; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, New York, N. Y. Film handling apparatus. 1,943,305; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., and E. L. Parmelee, Pittsburgh, Pa., assignors to Kinatome Patents Corporation, New York, N. Y. Photographic apparatus. 1,944,024; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, New York, N. Y. Film handling apparatus. 1,944,025; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation. Control mechanism. 1,944,026; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation. Film-handling apparatus. 1,944,027; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation. Film-handling apparatus. 1,944,028; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation. Film-handling apparatus. 1,944,029; Jan. 16.

Foster, Warren D., Washington Township, Bergen County, N. J., and F. D. Sweet, New York, N. Y., assignors to Kinatome Patents Corporation. Control for film-handling apparatus. 1,944,030; Jan. 16.

Fourness Development Corporation, The. (See Fourness, Wilfred, assignor.)

Fourness, Wilfred, Oakland, Calif., assignor to The Fourness Development Corporation, Ltd., New York, N. Y. Condenser system for mechanical refrigeration. 1,943,759; Jan. 16.

Franke, Clarence S., assignor to American Furnace Company, St. Louis, Mo. Heater. 1,943,596; Jan. 16.

Franklin Railway Supply Company. (See Titus, Hubert J., assignor.)

Franks, Christopher J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Tuned oscillatory circuits. 1,943,790; Jan. 16.

Fransen, Hans, Mannheim, H. Beller, Ludwigshafen-on-the Rhine, and M. Luther, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of organic acids. 1,943,427; Jan. 16.

Frase, Elmer R., Chicago, Ill. Game board. Des. 91,358; Jan. 16.

Fraser, George H., Brooklyn, N. Y. Pulverizer and separator. 1,943,306; Jan. 16.

Frazer, Charles H., Columbus, Ohio. Bus. 1,943,472; Jan. 16.

Freeman, Lowell C., Detroit, Mich., assignor to Resengin, Inc. Front-end construction for motor vehicles. 1,943,665; Jan. 16.

Freundorfer, Roman. (See Freundorfer, Theodor and R.)

Freundorfer, Theodor, and R. Freundorfer, Munich, Germany. Making orthochromatic collodion-emulsion dry plates. 1,943,380; Jan. 16.

Freyermuth, George H. (See Hanks, W. V., and Freyermuth.)

Friberg, Harry A., Winchester, Mass. Sand-washing apparatus. 1,943,861; Jan. 16.

Frick Company. (See Shenton, Francis, assignor.)

Frick Company. (See Small, Norman M., assignor.)

Friedrichs, Wilhelm, Berlin, Germany. Cash franking machine. 1,943,473; Jan. 16.

Fritz, Earl A. (See Giard, E. A., and Fritz.)

Frost, Louis H. (See Stewart, E. P., and Frost.)

Fuller Lehigh Company. (See Kerr, Howard J., assignor.)

Fullmer, Giles C., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Flashlight. 1,943,760; Jan. 16.

Fulton, Neil, New York, N. Y. Bendable wave comb. 1,943,728; Jan. 16.

Gabrielson, Carl, assignor to L C Smith & Corna Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,943,428; Jan. 16.

Galsman, Henry J., New York, N. Y. Container. 1,944,075; Jan. 16.

Gallamore, Oliver H., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind. Flexible coupling. 1,943,791; Jan. 16.

Gallucci, Mary C., San Diego, assignor of one-half to F. Magnetti, Los Angeles, Calif. Picture frame support. 1,943,666; Jan. 16.

Galson, Henry L., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Moisture extraction apparatus. 1,943,793; Jan. 16.

Gammeter, John R., Akron, Ohio, assignor to Revere Rubber Company, Providence, R. I. Making rubber thread. 1,943,381; Jan. 16.

Gardner, Abbott. (See Fleischmann, J. A., Walton W. and F. O. Sullivan.)

Garvey, Kenneth A., assignor to The Wahl Company, Chicago, Ill. Pencil eraser. 1,943,792; Jan. 16.

Geier, James, Troy, N. Y. Projection apparatus. 1,943,309; Jan. 16.

General Aniline Works, Inc. (See Fleischhauer, Richard, assignor.)

General Aniline Works, Inc. (See Laska, L., and Haller.)

General Aniline Works, Inc. (See Nawiasky, P., Stein, and Krause, assignors.)

General Aniline Works, Inc. (See Wilke, K., Stock, and Schubert, assignors.)

General Chemical Company. (See Carter, Bernard M., assignor.)

General Conveyers Limited. (See Needham, John T., assignor.)

General Development Laboratories, Inc. (See Sperti, George, assignor.)

General Electric Company. (See Bailey, William M., assignor.)

General Electric Company. (See Bedford, Burnice D., assignor.)

General Electric Company, The. (See Coates, Herbert J., assignor.)

General Electric Company. (See Fitz Gerald, Alan S., assignor.)

General Electric Company. (See Hegel, George W., assignor.)

General Electric Company. (See Hutt, Leonard P., assignor.)

General Electric Company. (See Kettner, Karl, assignor.)

General Electric Company. (See Lukens, Alan F., assignor.)

General Electric Company. (See Reist, Henry G., assignor.)

General Electric Company. (See Townsend, George R., assignor.)

General Fire Extinguisher Company. (See Dennis, Basil W., assignor.)

General Railway Signal Company. (See Hailes, William D., assignor.)

General Railway Signal Company. (See Wight, Sedgwick N., assignor.)

General Steel Castings Corporation. (See Bender, Frederic H., assignor.)

Gentile, Virginio J., assignor to Beauty Utilities, Inc., Summit, N. J. Permanent waving. 1,943,889; Jan. 16.

Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Steering wheel. 1,943,915; Jan. 16.

Giard, Eugene A., Shorewood, and E. A. Frits, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Electron tube. 1,943,523; Jan. 16.

Gibson, George H., Upper Montclair, N. J., and V. A. Rohlin, assignors to Cochrane Corporation, Philadelphia, Pa. Method of and apparatus for heating and degasifying liquids. 1,943,890; Jan. 16.

Giesecke, Fred O., Evanston, Ill., assignor to International Patents Development Company, Wilmington, Del. Adhesive substance. 1,943,882; Jan. 16.

Giesey, Russell, Oklahoma City, Okla., assignor to Reed Roller Bit Company, Houston, Tex. Drill. 1,944,076; Jan. 16.

Gilbert, Harvey N., Niagara Falls, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Purifying light metals. 1,943,307; Jan. 16.

Gillon, Elam R. (See White, R. H., jr., and Gillon.)

Gilmer, Ernest E., Portland, Oreg. Processing shingle shake. 1,943,597; Jan. 16.

Ginder, William H., Haddonfield, N. J., assignor of fifty-one per cent to I. C. Shaikop, Philadelphia, Pa. Indicating fuse plug. 1,944,145; Jan. 16.

Gleason, Frederick H. (See Doman, A. E., Bowen, and Gleason.)

Globe American Corporation. (See Chester, A. P., and Hill, assignors.)

Godard, Ray S., Pittsburgh, Pa. Furnace. 1,943,957; Jan. 16.

Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,943,429; Jan. 16.

Goddu, George, deceased, by I. W. Goddu, executrix, Winchester, assignor to United Shoe Machinery Corporation, Boston, Mass. Roughing machine for shoe parts. 1,943,430; Jan. 16.

Goddu, Isabelle W., executrix. (See Goddu, George.)

Godfrey, Bert O., Brooklyn, N. Y. Direct-reading pitchometer. 1,943,862; Jan. 16.

Godsey, Frank W., jr. (See Von Ohlesen, L. H., and Godsey, jr.)

Godsey, Frank W., jr., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. System and apparatus for regulation. 1,943,524; Jan. 16.

Goepfrich, Rudolph A., South Bend, Ind. Brake. 1,944,136; Jan. 16.

Goers, Joseph J. (See Buttaci, J., and Goers.)

Gold, Max G., and D. A. Moritz, McKeesport, Pa. Toilet apparatus. 1,944,077; Jan. 16.

Goldberg, Max L. (See Goldberg, Victor, and M. L.)

Goldberg, Victor, and M. L. Goldberg, Baltimore, Md. Toy boat. 1,943,474; Jan. 16.

Goldstein-Wilkins Corporation. (See Reiman, Paul, assignor.)

Goldwater, William N., Rochester, N. Y. Garment supporting board. 1,944,078; Jan. 16.

Gommel, Dewey E., assignor to E. C. Atkins & Company, Indianapolis, Ind. Saw swage. 1,943,863; Jan. 16.

Goodman, Louis, assignor to State Holding Co., Inc., San Francisco, Calif. Swivel coupling joint. 1,944,124; Jan. 16.

Goodman Manufacturing Company. (See McCullough, William T., assignor.)

Goodyear's India Rubber Glove Manufacturing Co. (See Manville, Henrietta P., assignor.)

Gnosmann, Justus C., Mount Vernon, assignor to American Dryice Corporation, New York, N. Y. Solid carbon dioxide converter. 1,943,820; Jan. 16.

Gorin, Frederick P., Seattle, Wash., assignor, by mesne assignments, to Elliott-Fisher Company. Motor return mechanism for typewriters. 1,943,431; Jan. 16.

Goss Printing Press Company, The. (See Smith, Ernest J., assignor.)

Gould Storage Battery Corporation. (See Chamberlain, Rufus N., assignor.)

Gourley, David S., Lynchburg, Va. Alarm mechanism for clocks. 1,943,598; Jan. 16.

Grant, Albert E., assignor to Kerant Corporation, New York, N. Y. Electric plug construction. 1,943,958; Jan. 16.

Graves, Roy R., Kensington, Md. Construction of insulated walls. 1,944,079; Jan. 16.

Greenough, Henry B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel finishing machine. 1,943,308; Jan. 16.

Gresham, Harry E., and J. N. Gresham, Salford, Manchester, England. Feed water heater of the injector type. 1,944,080; Jan. 16.

Gresham, James N. (See Gresham, Harry E. and J. N.)

Griffin, Roger L., and J. T. O'Neil, Peabody, assignors to A. C. Lawrence Leather Company, Boston, Mass. Stretching machine. 1,943,794; Jan. 16.

Grigsby-Grunow Company. (See King, Walker J., assignor.)

Grigsby-Grunow Company. (See Lear, William P., assignor.)

Grob, Hugo, Berlin, Germany. Armature construction for dynamo-electric machines. 1,943,432; Jan. 16.

Grubb, Gunnar A. (See von Platen, B. C., and Grubb.)

Gruenberg, Walter A., Royal Oak, assignor to Bilz-Em Toys, Inc., Detroit, Mich. Toy vehicle. Des. 91,354; Jan. 16.

Grulee, Lowry K. (See Wallace, W. F., and Grulee.)

Gundlach, Henry R., Baltimore, Md., assignor to Central Commercial Company. Colored roofing granule. 1,943,525; Jan. 16.

Gurley, Roger K., Chatham, N. J., assignor to American Telephone and Telegraph Company. System for selective calling of telegraph stations. 1,943,475; Jan. 16.

Gustafson, Carl G., Brooklyn, N. Y. Rotary internal combustion engine. 1,943,937; Jan. 16.

Gutehoffnungshutte Oberhausen Aktiengesellschaft. (See Heckel, W., and Nashan, assignors.)

Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Filler and flat construction. 1,943,667; Jan. 16.

Gysler, Charles O., Winnipeg, Manitoba, Canada. Milk pail. 1,943,383; Jan. 16.

Habirshaw Cable and Wire Corporation. (See Del Mar, William A., assignor.)

Hagan, Harry J., Roanoke, Va. Heel brace. 1,943,476; Jan. 16.

Hailes, William D., Brighton, assignor to General Railway Signal Company, Rochester, N. Y. Train dispatching system for railroads. Re19,040; Jan. 16.

Haines, Rush T., Lansdowne, assignor to Royal Electrotype Company, Philadelphia, Pa. Backing electrotype plates. 1,943,526; Jan. 16.

Halbing, John M., assignor to The Linde Air Products Company, Bloomfield, N. J. Welding and cutting apparatus. 1,944,125; Jan. 16.

Hall, Charles G., Caldwell, Idaho. Mold for making edible bottles and filling the same. 1,943,384; Jan. 16.

Hall, Henry L. (See Woods-Humphrey, G. E., and Hall.)

Hall, Roy M., Long Lake, Ind. Calendar pad. 1,943,599; Jan. 16.

Haller, Oskar. (See Laska, L., and Haller.)

Hallien, George. (See Psorakes, P., and Hallien.)

Hamilton, Bertis F., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Welding machine. 1,943,600; Jan. 16.

Hammar, Herbert G., assignor to Federal Electric Company, Chicago, Ill. Sign. Des. 91,355; Jan. 16.

Handy, Arthur E. (See Lindquist, Handy, and Margles.)

Hanflig, Louis S., Chelsea, Mass. Impact-producing implement. 1,944,006; Jan. 16.

Hanks, William V., Baton Rouge, La., and G. H. Freyermuth, Elizabeth, N. J., assignors to Standard Oil Development Company. Pre-roasting of hydrogen production catalysts. 1,943,821; Jan. 16.

Hansgirg, Fritz, Radenthein, Austria, assignor to American Magnesium Metals Corporation, Pittsburgh, Pa. Production of metallic magnesium. 1,943,601; Jan. 16.

Hanson, Helmer G., Vienna, S. Dak. Rear view mirror support for motor trucks and the like. 1,944,081; Jan. 16.

Harman, William R., Macksville, Kans. Multiple disk brake. 1,943,795; Jan. 16.

Harrington, Paul J., Elizabeth, N. J., assignor to Standard Oil Development Company. Method and apparatus for counter-current washing. 1,943,822; Jan. 16.

Harris, George J., assignor of one-third to M. L. Harris, Providence, R. I., and one-third to Harold C. Osler, Boston, Mass. Packaging and display means. 1,943,762; Jan. 16.

Harris, Morris L., et al. (See Harris, George J., assignor.)

Harrison, Everett H., Wichita, Kans. Steam vat for creamery use. 1,943,602; Jan. 16.

Hartman, Carl E., Denver, Colo. Tool guide for dentists' contra-angles. 1,943,668; Jan. 16.

Hartman, George H., assignor to The Aro Equipment Corporation, Bryan, Ohio. Grease pumping mechanism. 1,943,603; Jan. 16.

Hartman, George H., assignor to The Aro Equipment Corporation, Bryan, Ohio. Grease delivery device. 1,943,604; Jan. 16.

Hartman, George H., assignor to The Aro Equipment Corporation, Bryan, Ohio. Greasing apparatus. 1,943,605; Jan. 16.

Hattmann, Carl W., Lyngby, by Copenhagen, Denmark. Opening and closing means for carton boxes. 1,943,796; Jan. 16.

Haserodt, Grant H., Edison, Ohio. Molding machine. 1,943,477; Jan. 16.

Hastings, William E., Jetmore, Kans. Elevator. 1,943,761; Jan. 16.

Haverson, Harold W., et al. (See Le Cour, Albert E. and E., assignors.)

Hawley, Edgar F., Pueblo, Colo. Floor oiler and waxer. 1,943,606; Jan. 16.

Haydel, Whitney A., assignor of one-sixth to L. P. Bryant, Jeanerette, and one-sixth to J. A. Daigre, New Iberia, La. Combination cooler and ice box. 1,943,938; Jan. 16.

Hayes, Frank A., Middletown, N. J. Controlling means for variable speed power transmission mechanisms. 1,943,527; Jan. 16.

Hazeltine Corporation. (See Wheeler, Harold A., assignor.)

Heckel, Wilhelm, and P. Nashan, assignors to the firm Gutehoffnungshutte Oberhausen, Aktiengesellschaft, Oberhausen-Rhineland, Germany. Production of oxidation products of acetylene. 1,943,385; Jan. 16.

Hedman, Herbert R., assignor to Hedman Manufacturing Company, Chicago, Ill. Signature writing machine. 1,943,607; Jan. 16.

Hedman Manufacturing Company. (See Hedman, Herbert R., assignor.)

Hegel, George W., Schenectady, N. Y., assignor to General Electric Company. Door mechanism. 1,944,082; Jan. 16.

Heigh, William, Cambuslang, Scotland, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Metallic expansion joint. 1,944,128; Jan. 16.

Heighton, Henry E., assignor to Port Colborne Iron Works, Port Colborne, Ontario, Canada. Fairlead for cables and the like. 1,943,433; Jan. 16.

Heim, Lewis R., Danbury, Conn. Bearing construction. 1,943,864; Jan. 16.

Heinen, Frederick C., assignor to Camel Company, Chicago, Ill. Lift and throwout door mechanism. 1,943,823; Jan. 16.
Heise, Eyda, executrix. (See Heise, Roscoe S.)
Heise, Roscoe S., deceased, Wausion, Ohio; Eyda Heise, executrix. Wiring system for electric ovens. 1,943,310; Jan. 16.
Heller, Milton L., New York, N. Y. Garment band. 1,943,729; Jan. 16.
Hemenway, Charles R., Oklahoma City, Okla. Gas making device. 1,943,311; Jan. 16.
Hempstead, Ralph C., and J. W. Marshall, Milwaukee, Wis. Apparatus for molding cast wheels. 1,943,434; Jan. 16.
Hennessey, Vincent D., Milwaukee, Wis. Mixing valve. 1,943,865; Jan. 16.
Herman, Joseph, Westfield, N. J., assignor to American Telephone and Telegraph Company. Transmission level control in telegraph signaling systems. 1,943,478; Jan. 16.
Hermanspann, Paul, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radiofrequency short wave receiver. 1,943,730; Jan. 16.
Herr, Park A., Hillside, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Looper-thread controlling mechanism for sewing machines. 1,943,669; Jan. 16.
Hertenstein, Jacob R., assignor to Nashville Machine and Supply Company, Nashville, Tenn. Expansion pulley. 1,943,435; Jan. 16.
Hesselman, Knut J. E., Saltsjo-Storangen near Stockholm, Sweden. Mechanism for controlling the admission of air to internal combustion engines. 1,943,312; Jan. 16.
Hesson, Lester L., Berne, Ohio. Brush. 1,943,479; Jan. 16.
Hetherington, Carl F., St. Louis, Mo. Anchor bolt. 1,943,731; Jan. 16.
Heumann, Ferdinand G., Great Neck, N. Y. Grass shears. 1,943,960; Jan. 16.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Spring seat. 1,943,670; Jan. 16.
Hewitt, Ellis E., Edgewood, Pa., and C. D. Stewart, Berkeley, Calif., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Pneumatic horn. 1,943,671; Jan. 16.
Hewitt, William R., New York, N. Y. Lock nut. 1,943,672; Jan. 16.
Heylandt, Christian W. P., Berlin-Britz, Germany, assignor to Fluga Aktiengesellschaft, St. Moritz, Switzerland. Method and device for producing compressed gas from liquefied gas. Re19,054; Jan. 16.
Hibbard, Thomas L., Bloomfield Hills, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Outside door handle or similar article for an automotive vehicle. Des. 91,356; Jan. 16.
Hicks, Harold A., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Cowling ring for airplane engines. 1,943,528; Jan. 16.
Hiedloff, Joseph R., Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Hydraulic brake. 1,943,959; Jan. 16.
Hile, Leslie M., Benton Harbor, Mich. Rectangular basket. 1,943,824; Jan. 16.
Hile, Leslie M., Benton Harbor, Mich. Rectangular basket. 1,943,825; Jan. 16.
Hill, Dewey H. (See Chester, A. P., and Hill.)
Hinderliter, Frank J., Tulsa, Okla. Casing head with blowout preventer. Re19,047; Jan. 16.
Hirth, Alphonse, Burnhaupt-le-Haut, France. Apparatus for grinding cutter bars of mowing machines. 1,943,529; Jan. 16.
Hoague-Sprague Corporation. (See Knowlton, Cutler D., assignor.)
Hobart, Floyd B., assignor to The Battelle Memorial Institute, Columbus, Ohio. Lightweight ceramic material and making the same. 1,944,007; Jan. 16.
Hobart, Floyd B., assignor to The Battelle Memorial Institute, Columbus, Ohio. Heat insulating material and making the same. 1,944,008; Jan. 16.
Hockley, Chester F., receiver. (See Connolly, G. C., and Wurzbacher, assignors.)
Hockley, Chester F., receiver. (See Lewis, Samuel R., assignor.)
Hockley, Chester F., receiver. (See Miller, Ernest B., assignor.)
Hodgkinson, Francis, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing construction. 1,943,891; Jan. 16.
Hodgman, Willis K., jr., Taunton, Mass. Automatic sprinkler. 1,943,480; Jan. 16.
Hoefleur, Arthur, assignor to Standard Oil Company, Chicago, Ill. Barrel handling machinery. 1,943,530; Jan. 16.
Hoffstetter, Carl H., and R. F. Hoffstetter, Erie, Pa. Service drawer mounting for ranges or stoves. 1,943,939; Jan. 16.
Hoffstetter, Robert F. (See Hoffstetter, Carl H. and R. F.)
Hogan, Patrick J., Montreal, Quebec, Canada, assignor to United Shoe Machinery Corporation, Paterson, N. J. Pressing pad. 1,943,313; Jan. 16.
Holles, Frank A., assignor of one-half to R. E. Cope, Alliance, Ohio. Curtain frame construction. 1,943,763; Jan. 16.
Hokanson, Otto A. (See Koca, J. F., and Hokanson.)
Holl, Edward W., Brooklyn, N. Y. Two-part service glass. 1,943,866; Jan. 16.
Holland, Edward S. J., Framingham Center, assignor to Warren Telechron Company, Ashland, Mass. Auxiliary electric supply system. 1,944,083; Jan. 16.
Hollander, Aladar, Pasadena, assignor to Byron Jackson Co., Berkeley, Calif. Well pump. 1,943,581; Jan. 16.
Hollinger, Paul G., Chicago, Ill. Refrigerating system. 1,943,608; Jan. 16.
Holloway, Harry H., assignor to Apollo Steel Company, Apollo, Pa. Surface treatment of metal. 1,943,764; Jan. 16.
Holloway, Sterling C. (See Posey, Thomas W., assignor.)
Holtzman, John, New York, N. Y. Lock. 1,943,826; Jan. 16.
Homer, Ralph W., Ventura, Calif. Intra-abdominal retractor. 1,944,009; Jan. 16.
Hopkinson, Ernest, New York, N. Y., assignor to National India Rubber Company, Providence, R. I. Manufacture of filamentary material. 1,943,436; Jan. 16.
Hopkinson, Ernest, New York, N. Y., assignor to National India Rubber Company, Providence, R. I. Manufacture of rubber thread. 1,943,437; Jan. 16.
Hopkinson, Ernest, New York, N. Y., assignor to National India Rubber Company, Providence, R. I. Manufacture of rubber thread. 1,943,438; Jan. 16.
Hopkinson, Ernest, New York, N. Y., assignor to National India Rubber Company, Providence, R. I. Manufacturer of filamentary materials. 1,943,439; Jan. 16.
Horni, Joseph T., Newark, N. J. Reflecting unit for vehicles. 1,943,440; Jan. 16.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Captive screw cap for cans. 1,943,314; Jan. 16.
House, Bryan E., assignor to Bendix Brake Company, South Bend, Ind. Shaft mounting. 1,943,827; Jan. 16.
Howe, Charles S., assignor to Los Angeles Testing Laboratory, Los Angeles, Calif. Synthetic inorganic gel and making same. 1,943,532; Jan. 16.
Howry, Hobart B., assignor to National Air Conditioning Company, Sioux City, Iowa. Air conditioning apparatus. 1,944,146; Jan. 16.
Hübschmann, Max. (See Bauersfeld, W., and Hübschmann.)
Hübschmann, Max, Jena, assignor to the firm Carl Zeiss, Jena, Germany. Object stage for projection apparatus. 1,943,533; Jan. 16.
Hudson, Alden, Green Bay, Wis. Film display frame for projectors. 1,943,673; Jan. 16.
Hughes, Lafayette M. (See Mitchell, Thomas A., assignor.)
Hughes Tool Company. (See Fletcher, Harold W., assignor.)
Hughes Tool Company. (See Rocker, Norman H., assignor.)
Hulse, George E. (See Strobell, J. D., and Hulse.)
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Art and apparatus for cooling. 1,943,315; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration. 1,943,316; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration system. 1,943,317; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration system and apparatus. 1,943,318; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Temperature control. 1,943,961; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration. 1,943,962; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration apparatus. 1,943,963; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration system. 1,943,964; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Temperature controlling apparatus. 1,943,965; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration system and apparatus. 1,943,966; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration. 1,943,967; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration system. 1,943,968; Jan. 16.
Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Temperature regulating system and apparatus. 1,943,969; Jan. 16.
Hulse, George E., and J. D. Strobell, New Haven, Conn., assignors to The Safety Car Heating & Lighting Company. Art and apparatus for cooling. 1,943,970; Jan. 16.

Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration apparatus and refrigerating. 1,943,971; Jan. 16.
Hume, Walter R., Melbourne, Victoria, Australia. Flux-coated welding rod and means therefor. 1,943,867; Jan. 16.
Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Circuit controlling device. 1,944,084; Jan. 16.
Huttenlocher, Richard, Oberlahnstein-on-the-Rhine, assignor to firm Farb- & Gerbstoffwerke Carl Flesch, jr., Frankfort-on-the-Main, Germany. Manufacture of sulphonated oils and fats. 1,943,319; Jan. 16.
Hyatt, Samuel W., Columbus, Ohio. Airplane landing light. 1,943,609; Jan. 16.
Hydraulic brake Company. (See Heidloff, Joseph R., assignor.)
Hyland, Lawrence A., Washington, D. C., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Voltage regulator. 1,943,820; Jan. 16.
Hyland, Lawrence A., Washington, D. C. Clutch and bearing for aviation generators. 1,943,821; Jan. 16.
I. G. Farbenindustrie Aktiengesellschaft. (See Franzen, H., Beller, and Luther, assignors.)
Imperial Chemical Industries Ltd. (See Burns, R., and Stickland, assignors.)
Imperial Chemical Industries, Ltd. (See Traill, D., and Levesley, assignors.)
Independent Pneumatic Tool Co. (See Norling, Reinhold A., assignor.)
Indianapolis Reed Company. (See Mahoney, William F., assignor.)
Ingram, Joseph R., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Vulcanizing rubber. 1,943,797; Jan. 16.
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
Inland Steel Company. (See Smith, Wallace W., assignor.)
International Combustion Engineering Corporation. (See Cottam, Charles A., assignor.)
International Envelope Corporation. (See O'Connell, John J., assignor.)
International Motor Company. (See Cowell, Robert F., assignor.)
International Patents Development Company. (See Giesecke, Fred O., assignor.)
Irmscher, Hans, and G. L. Buckley, New York, N. Y. Device for opening packages and other wrappings. 1,943,732; Jan. 16.
Iron Fireman Manufacturing Company. (See Banfield, Thomas H., assignor.)
Irvine, Fergus A. (See Lathrop, E. C., and Irvine.)
Izard, Emmette F., Elsmere, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose derivative composition. 1,943,972; Jan. 16.
J. & M. Machine Company, The. (See Mitchell, Courtney N., assignor.)
Jackson, Byron, Co. (See Hollander, Aladar, assignor.)
Jackson, Roy, assignor to D. Jolkower, New York, N. Y. Dispensing apparatus. 1,944,137; Jan. 16.
Jacobsen, Knud F., assignor to Jacobsen Manufacturing Co., Racine, Wis. Auxiliary cutter for power driven lawn mowers. 1,943,675; Jan. 16.
Jacobsen, Manufacturing Co. (See Jacobsen, Knud F., assignor.)
Jaeger, Alphons O., Mount Lebanon, and L. C. Daniels, Crafton, assignors to The Selden Company, Pittsburgh, Pa. Purification of organic acids. 1,943,892; Jan. 16.
Jameson, Reuben M. (See Fantone, C. B., and Jameson.)
Jamias, Filomeno, Chicago, Ill. Cooking utensil. 1,943,973; Jan. 16.
Janney, Thomas A. (See Martin, H. S., and Janney.)
Jessup, Alfred C., Broadway, and Maurice N. Lacell, London, England. Production of metallic magnesium. 1,943,916; Jan. 16.
John, Albert J., Brookfield, Ill. Golf hole cup or rim. 1,943,610; Jan. 16.
John, Robert, New York, N. Y. Refrigerator structure. 1,944,126; Jan. 16.
Johnsen, Einar A. (See Coghlan, T. G., and Johnsen.)
Johnsen, Sigrid A., executrix. (See Coghlan, T. G., and Johnsen.)
Johnson, Arthur S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing machine. 1,943,822; Jan. 16.
Johnson Brothers Engineering Corporation. (See Johnson, Harry L., assignor.)
Johnson, Claude T., East Orange, assignor to T. A. Edison, Incorporated, West Orange, N. J. Infusion device. 1,943,386; Jan. 16.
Johnson, George W., Diamond Springs, Calif. Fountain brush. 1,943,893; Jan. 16.
Johnson, Harry L., Waukegan, Ill., assignor to Johnson Brothers Engineering Corporation, South Bend, Ind. Marie motor for bevel gear pivots for lower casings. 1,943,323; Jan. 16.
Johnson, Irene L., (See Rice, Linville S. and G. E. and Johnson.)
Johnson, James P., Cleveland, Ohio. Roller bearing retainer. 1,943,894; Jan. 16.
Johnson, John A. (See Cummins, N. W., and Johnson.)
Johnson, John F., Peoria, Ill. Jar-cover wrench. 1,943,611; Jan. 16.
Johnson, Leon R., Wichita, Kans. Furnace. 1,943,537; Jan. 16.
Johnson Metal Products Company. (See Johnson, Theodore, assignor.)
Johnson, Oscar C., Woking, England. Continuous film motion cinematograph projector. 1,944,010; Jan. 16.
Johnson, Theodore, assignor to Johnson Metal Products Company, Erie, Pa. Screen mounting for metal window frames. 1,943,868; Jan. 16.
Jolkower, Dora. (See Jackson, Roy, assignor.)
Jones, Lara J., Crowley, La. Spark plug. 1,943,481; Jan. 16.
Jones, Ralph R., Evanston, Ill. Football guard. 1,944,127; Jan. 16.
Jones, Ronald L., Muskegon, Mich. Crank case breather. 1,943,765; Jan. 16.
Josky, Walter, Hamburg, Germany. Prevention of skidding of vehicles. 1,943,917; Jan. 16.
Jung, Karl, Munich, Germany. Optical aiming-device for machine guns. 1,943,887; Jan. 16.
Junkers, Hugo, Dessau, Germany. Control mechanism for fuel pumps. 1,943,974; Jan. 16.
Kadel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Draft rigging. 1,943,676; Jan. 16.
Kahn, Samuel C., assignor to Capital Paper Company, Indianapolis, Ind. Package opener. 1,943,538; Jan. 16.
Kalle & Co. Aktiengesellschaft. (See Ostwald, Ulrich, assignor.)
Kalle & Co. Aktiengesellschaft. (See Schwalbe, W., and Schnecko, assignors.)
Kattrein, William J., assignor to Watervliet Tool Company, Inc., Albany, N. Y. Glaze breaking tool for gas engine valve seats. 1,943,895; Jan. 16.
Keall, Frank B. (See Bates, A., and Keall.)
Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Perforating machine. 1,943,441; Jan. 16.
Kearney, James R., St. Louis, Mo. Electrical connecter. 1,943,677; Jan. 16.
Keefe, Frederick J., New York, N. Y. Cigarette case. 1,943,678; Jan. 16.
Keith, Geo. E., Company. (See Caldwell, Charles H., assignor.)
Kellogg Switchboard and Supply Company. (See Eaton, George R., assignor.)
Kellogg Switchboard and Supply Company. (See Pfeiffer, George S., assignor.)
Kellogg Switchboard and Supply Company. (See Wallace, Bert A., assignor.)
Kelly, Hugh W., Woodbridge, N. J. Track torpedo and making the same. 1,944,085; Jan. 16.
Kelvinator Corporation. (See Phillips, Arthur V., assignor.)
Kempf, Willy, assignor to Stug Kohlenstaubfeuerung Patentverwertung, G. m. b. H., Cassel, Germany. Pulverized fuel furnace. 1,944,086; Jan. 16.
Kendall, Myron A., Aurora, Ill., assignor to Stephens-Adamson Manufacturing Company. Shuttle conveyer. 1,943,869; Jan. 16.
Kendler, Otto F., New York, N. Y. Automatic torque adjuster. 1,943,324; Jan. 16.
Kennedy, Joseph A., Pawtucket, R. I., assignor to Anaconda Wire and Cable Company, New York, N. Y. Insulated conductor. 1,943,977; Jan. 16.
Kerant Corporation. (See Grant, Albert E., assignor.)
Kerr, Howard J., Westfield, N. J., assignor to Fuller Lehigh Company, Fullerton, Pa. Steam generator. 1,943,539; Jan. 16.
Kestenman Bros. Mfg. Co. (See Kestenman, Charles H., assignor.)
Kestenman, Charles H., assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Flexible band or linkage. 1,943,733; Jan. 16.
Kettner, Karl, Berlin-Lankwitz, Germany, assignor to General Electric Company. System of electrical distribution. 1,944,087; Jan. 16.
Kharasch, Morris S., Chicago, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Seed disinfectant. 1,943,540; Jan. 16.
Kilgore Manufacturing Company, The. (See Peake, Edward S., assignor.)
Kilham, Charles O., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for coating sheet-material. 1,943,442; Jan. 16.
Kilham, Charles O., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating sheet material. 1,943,443; Jan. 16.
Kinatome Patents Corporation. (See Bundick, C. U., and Proctor, assignors.)
Kinatome Patents Corporation. (See Ford, George W., assignor.)
Kinatome Patents Corporation. (See Foster, Warren D., assignor.)
Kinatome Patents Corporation. (See Foster, W. D., and Parmelee, assignors.)
Kinatome Patents Corporation. (See Foster, W. D., and Sweet, assignors.)
Kinatome Patents Corporation. (See Laug, J. P., and Foster, assignors.)
Kinatome Patents Corporation. (See Ponting, H. C., and Ford, assignors.)
Kinatome Patents Corporation. (See Proctor, Barton A., assignor.)
Kinatome Patents Corporation. (See Sweet, Frederick D., assignor.)

King, Edward F., Cranston, R. I. Tractor device for vehicle tires and manufacture. 1,943,918; Jan. 16.
King, Walter J., Elmhurst, Ill., assignor, by mesne assignments, to Grigsby-Grunow Company. Electrical apparatus. 1,944,138; Jan. 16.
Kinnear Manufacturing Company, The. (See Cross, Earl F., assignor.)
Kirkham, Charles B. (See Carpenter, M. H., and Kirkham.)
Klaiber, Frank L., Buffalo, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal combustion engine. 1,943,870; Jan. 16.
Knowles, Albert, San Francisco, Calif., assignor to Transit Mixers Inc. Concrete mixing apparatus. 1,943,325; Jan. 16.
Knowlton, Cutler D., Beverly, assignor to Hoague-Sprague Corporation, Lynn, Mass. Apparatus for separating articles. 1,943,444; Jan. 16.
Knowlton, Ralph W. (See Emery, G. G., Knowlton, and Bennett.)
Knox, William H., jr., Nashville, Tenn., assignor to Victor Chemical Works, Chicago, Ill. Granular calcium phosphate and producing the same. 1,943,919; Jan. 16.
Koca, James F., and O. A. Hokanson, Woodstock, Ill. Check writer. 1,943,828; Jan. 16.
Kocher, Edward H., Boonton, N. J., assignor to Auto Research Corporation. Fluid conduit terminal. 1,943,326; Jan. 16.
Köhler, August. (See Bauersfeld, W., and Köhler.)
Konetsky, John R., San Francisco, Calif. Fifth wheel. 1,943,734; Jan. 16.
Koomrulan, Harry, New York, N. Y. Sandal. 1,943,829; Jan. 16.
Kopfstein, Carl E., Pittsburgh, Pa. Window shade slat. 1,943,896; Jan. 16.
Koulichkov, Sergy N., and J. J. Drabin, New York, N. Y. Clutch control. 1,943,534; Jan. 16.
Kowada, Isoji, Kyoto-fu, Japan. Reeling machine. 1,943,798; Jan. 16.
Kraeft, Herman L., assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Bottle shipping case. Des. 91,357; Jan. 16.
Krause, Artur. (See Nawiasky, P., Stein, and Krause.)
Kronstadt, Max, Brooklyn, N. Y. Finger ring or similar article. Des. 91,358; Jan. 16.
Kunstdunger-Patent-Verwertungs Aktiengesellschaft. (See Larsson, Markus, assignor.)
Kury, Philip J. (See Brewer, C. A., and Kury.)
La Brie, Lodger E., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,943,830; Jan. 16.
Lacell, Maurice N., Finchley, London, England. Production of metallic magnesium. 1,943,920; Jan. 16.
Lacell, Maurice N. (See Jessup, A. C., and Lacell.)
Lake, Donald W., Chicago, Ill. Heater. 1,943,612; Jan. 16.
Lamond, Robert C., assignor to American Engineering Company, Philadelphia, Pa. Automatic cut-out and safety device for hydraulic systems. 1,943,535; Jan. 16.
Land, Arthur A. G., Chicago, Ill. Resilient tensioning wire fabric. 1,943,445; Jan. 16.
Land, Arthur A. G., Chicago, Ill. Transverse expanding wire fabric. 1,943,446; Jan. 16.
Land, Arthur A. G., Chicago, Ill. Chain link wire fabric. 1,943,447; Jan. 16.
Landberg, Carl E., Minneapolis, Minn. Collapsible scaffolding. 1,943,871; Jan. 16.
Landis & Gyr, A-G. (See Pudelko, Riccard, assignor.)
Landram, Conrad J., et al. (See Snell, Philip N., jr., assignor.)
Langdon, Amon W., assignor to American Can Company, New York, N. Y. Container. 1,943,327; Jan. 16.
Lange, Henry, assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Combination coal and gas range. Des. 91,359; Jan. 16.
Larsh, Everett P., Vandalia, and E. J. Peterhans, assignors to The Master Electric Co., Dayton, Ohio. Inertia governor for rotating bodies. 1,944,011; Jan. 16.
Larson, Carl G., Attleboro, Mass., assignor to Larson Tool and Stamping Company. Compass. 1,943,921; Jan. 16.
Larson Tool and Stamping Company. (See Larson, Carl G., assignor.)
Larsson, Markus, Berlin, Germany, assignor to Kunstdunger-Patent-Verwertungs Aktiengesellschaft, Glarus, Switzerland. Treating phosphate rock. Re19,045; Jan. 16.
Laska, Leopold, and O. Haller, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Arylamino-1-hydroxy-naphthalene-2-carboxylic acids. 1,943,872; Jan. 16.
Lathrop, Elbert C., and F. A. Irvine, assignors to The Celotex Company, Chicago, Ill. Water repellent size for fiber products. 1,943,975; Jan. 16.
Lang, Joseph P., Union City, and W. D. Foster, Washington Township, Bergen County, N. J., assignors to Kinatome Patents Corporation. Gate for film handling apparatus. 1,944,031; Jan. 16.
Lauten, Henry. (See Wilson, H. S., and Lauten.)
Lawrence, A. C., Leather Company. (See Griffin, R. L., and O'Neil, assignors.)
Layer, George. (See Schuck, C., and Layer.)
Lear, William P., assignor to Grigsby-Grunow Company, Chicago, Ill. Radio apparatus. 1,944,139; Jan. 16.
Le Cour, Albert E. and E., assignors of one-third to H. W. Haverson, one-third to A. E. Le Cour, and one-third to E. Le Cour, St. Louis, Mo. Hydraulic brake. 1,943,679; Jan. 16.
Le Cour, Emile, et al. (See Le Cour, Albert E. and E.)
Lelong, Lucien, Inc. (See Stein, Joseph S., assignor.)
Lekner, Adolf, Prague, Czechoslovakia. Oil pressure actuated switch. 1,944,012; Jan. 16.
Lemmon, John C., Hammond, Ind. Applying muslin to corrugated roofing. 1,943,681; Jan. 16.
Lentz, George W. (See Fogg, L. W., and Lentz.)
Lesser, Paul, Brooklyn, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,360; Jan. 16.
Lester, Nathan, Cleveland, Ohio, assignor to Precision Castings Company, Inc., Fayetteville, N. Y. Die-casting machine. 1,943,680; Jan. 16.
Levesley, Alfred S. (See Trall, D., and Levesley.)
Lewers, George R., Elizabeth, N. J. Revivifying mineral absorbents. 1,943,976; Jan. 16.
Lewis Invisible Stitch Machine Company. (See Mueller, Charles W., assignor.)
Lewis, Samuel R., Chicago, Ill., assignor, by mesne assignments, to C. F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md. Air conditioning system. 1,943,613; Jan. 16.
Lewtas, Edward R. (See Benton, L. G., Tate, and Lewtas.)
Linde Air Products Company, The. (See Halbing, John M., assignor.)
Linderoth, Erik T., assignor to C. F. Rosenblad, Sodertalje, Sweden. Controlling the temperature of hot water for tapping purposes. 1,944,088; Jan. 16.
Lindquist, David L., Hartsdale, A. E. Handy, Lynbrook, and S. C. Margles, Brooklyn, assignors to Otis Elevator Company, New York, N. Y. Moving stairway. 1,943,682; Jan. 16.
Linton, Bert F., Visalia, Calif. Fifth wheel for trailers. 1,943,735; Jan. 16.
Litchfield, Isaac W., Boston, Mass., assignor to Bemis Bro. Bag Co., New York, N. Y. Bag. 1,944,089; Jan. 16.
Little, John B., assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,361; Jan. 16.
Locke Insulator Corporation. (See Robertson, John C., assignor.)
Long, James W., Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Signal repeater. 1,943,683; Jan. 16.
Los Angeles Testing Laboratory. (See Howe, Charles S., assignor.)
Luce, Richard W., Mountainside, assignor to American Gasaccumulator Company, Elizabeth, N. J. Producing sheet metal reflectors. 1,943,978; Jan. 16.
Lucid, Con. (See Dudley, O. E., and Lucid.)
Lukens, Alan F., Pittsfield, Mass., assignor to General Electric Company. Alternating current motor control. 1,944,090; Jan. 16.
Lundvall, John, assignor to Equipment Specialties Company, Chicago, Ill. Refrigerator car. 1,943,979; Jan. 16.
Luther, Martin. (See Franzen, H., Beller, and Luther.)
Lutz, Rollin B., Hollywood, Calif. Scalp treating device. 1,944,091; Jan. 16.
Lyon, George A., Allenhurst, assignor to Lyon Incorporated, Asbury Park, N. J. Cover for spare tires. 1,943,922; Jan. 16.
Lyon Incorporated. (See Lyon, George A., assignor.)
Macadie, Donald, London, and C. L. Ratcliff, Stretchford, England. Machine for sorting documents and the like provided with statistical or other determinative perforations. 1,943,940; Jan. 16.
MacChesney, Chester M., assignor to Acme Steel Company, Chicago, Ill. Reenforced pavement and laying same. 1,943,328; Jan. 16.
MacDonald, John J., assignor to F. M. Simpson, Montreal, Quebec, Canada. Pole clamp. 1,943,766; Jan. 16.
Macneil, Frederick H., Boston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Cell-type switch having raising and lowering mechanism therefor. 1,944,092; Jan. 16.
Macomic, Chester A. (See White, George H., assignor.)
Madro, George, Cleveland, Ohio. Cleanout for stove pipes or elbows. 1,943,482; Jan. 16.
Maggart, Roy W., Hamilton, Ohio. Smoothing roll in paper machines. 1,944,093; Jan. 16.
Magnetic Signal Co. (See Richards, Daniel W., assignor.)
Magnetti, Frank. (See Gallucci, Mary C., assignor.)
Magney, Gottlieb R., Minneapolis, Minn. Humidifier having conduits with return bends. 1,943,897; Jan. 16.
Mahan, Joseph R., assignor to The National Supply Company, Toledo, Ohio. Casing head. 1,943,799; Jan. 16.
Mahoney, William F., assignor to Indianapolis Reed Company, Incorporated, Indianapolis, Ind. Lawn vase. Des. 91,362; Jan. 16.
Mall, Arthur W., Chicago, Ill. Spindle connecter. 1,943,980; Jan. 16.
Mansure, Arthur J., Detroit, Mich., assignor to The Bristol Company, Waterbury, Conn. Automatic temperature or pressure controller. 1,943,831; Jan. 16.
Manville, Henrietta P., Woodbury, assignor to The Goodyear's India Rubber Glove Manufacturing Co., Naugatuck, Conn. Waterproof footwear. 1,943,448; Jan. 16.
Mapes Consolidated Manufacturing Company. (See Schurmann, William A., assignor.)

Marcus, Samuel, Belle Harbor, assignor to Margon Corporation, New York, N. Y. Apparatus for and method of mounting fittings in flexible doll heads. 1,943,736; Jan. 16.
Margles, Samuel G. (See Lindquist, D. L., Handy, and Margles.)
Margon Corporation. (See Marcus, Samuel, assignor.)
Marshall, Albert E. (See Walker, G. E., Marshall, and Dunn.)
Marshall, Jean H., Chicago, assignor of one-half to R. W. Muir, Barrington, Ill. Dust mop or oil mop cleaner. 1,943,449; Jan. 16.
Marshall, Joseph W. (See Hempstead, R. C., and Marshall.)
Marshall, Thomas W. (See Schwarzkopf, Erich, assignor.)
Martin, Harold S., and T. A. Janney, Garfield, Utah. Method and apparatus for controlling the hydrogen-ion concentration of solutions. 1,943,684; Jan. 16.
Master Electric Co., The. (See Larsh, E. P., and Peterhans, assignor.)
Mathews Conveyer Company. (See Adams, Charles A., assignor.)
Matthias, Lynn H., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis. Electric pick-up for sound reproduction. 1,943,873; Jan. 16.
Maynes, Emma C. (See Maynes, Hyla F., assignor.)
Maynes, Hyla F., assignor of one-half to E. C. Maynes, North Tonawanda, N. M. Fishing reel. 1,943,981; Jan. 16.
Mayorga, Robert I., Oklahoma City, Okla. Game apparatus. 1,943,685; Jan. 16.
Mayweg, Hugo, Holzwickede, Germany, assignor, by mesne assignments, to L. S. Stevenson, Wheeling, W. Va. Making tubes and pipes. 1,944,094; Jan. 16.
Mayweg, Hugo, Holzwickede, Germany, assignor, by mesne assignments, to L. S. Stevenson, Wheeling, W. Va. Apparatus for making butt welded tubes and pipes. 1,944,095; Jan. 16.
Mayweg, Hugo, Holzwickede, Germany, assignor, by mesne assignments, to L. S. Stevenson, Wheeling, W. Va. Apparatus for making butt joined tubes and pipes. 1,944,096; Jan. 16.
Mayweg, Hugo, Holzwickede, Germany, assignor to American Welded Tube Company, Brilliant, Ohio. Welding. 1,944,097; Jan. 16.
McCarroll, Russell H., and G. Vennerholm, assignors to Ford Motor Company, Dearborn, Mich. Reclaiming and reusing metallic scrap mixtures. 1,943,541; Jan. 16.
McCarron, William E., Chicago, Ill. Truck loader. 1,943,614; Jan. 16.
McCarthy, Edward F., assignor of one-half to C. H. McCarty, Chicago, Ill. Vacuum and compression pump. 1,943,767; Jan. 16.
McCarty, Charles H. (See McCarthy, Edward F., assignor.)
McCosh, Marshall K., Reistertown, Md. Structure. 1,943,982; Jan. 16.
McCrew, Orville V., Chicago, Ill. Sealing building walls. 1,943,686; Jan. 16.
McCrudden, Daniel J., jr., Philadelphia, Pa., assignor to Monad Paint and Varnish Company. Container. 1,943,923; Jan. 16.
McCullough, Frederick S., Wilkinsburg, Pa. Cathode device. 1,943,388; Jan. 16.
McCullough, William T., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,943,832; Jan. 16.
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,943,615; Jan. 16.
McDonough, Henry, Elgin, Ill. Sewing compact. 1,943,542; Jan. 16.
McFadden, William J., Cedar Rapids, Iowa. Surgical instrument. 1,943,543; Jan. 16.
McMahon, Harry R., Coraopolis, Pa., assignor to Standard Steel Spring Company. Bumper end construction. Re19,050; Jan. 16.
McManaman, Patrick J., Cleveland, Ohio. Automobile signal. 1,943,833; Jan. 16.
McNeill, George K. (See Abbott, A. O., jr., and McNeill.)
McPhail, Harold R. (See Ruthenburg, L., Replogle, and McPhail.)
McPhee, Clement S., Cranston, assignor to Everett & Barron Company, Providence, R. I. Bottle. Des. 91,363; Jan. 16.
McPherson, Bruce, Greenville, S. C. Cigarette package. 1,944,098; Jan. 16.
Mearkle, Harry L., assignor to Philadelphia Screen Mfg. Company, Incorporated, Philadelphia, Pa. Stepladder. 1,944,099; Jan. 16.
Measuregraph Company, The. (See Aeschbach, Walter E., assignor.)
Medor, Peter J., New York, N. Y. Suspended railway system. 1,944,100; Jan. 16.
Meier, Ernest, Oakland, Calif. Door buffer. 1,944,101; Jan. 16.
Meiners, Joseph G., Normandy, assignor to Champion Anti-Rattler Co., Inc., St. Louis, Mo. Hinge pin pulley. 1,943,983; Jan. 16.
Melaas, Palmer C., Fergus Falls, Minn. Curtain protector. 1,943,768; Jan. 16.
Melhorn, Carl E. (See Smith, E. L., and Melhorn.)
Melio, James, Chicago, Ill. Flushing tank valve. 1,943,769; Jan. 16.
Meneghetti, Antonio J., Montreal, Quebec, Canada. Signal for boilers. 1,943,834; Jan. 16.
Menke, Harry W., Los Angeles, Calif., assignor to Cinemacolor Corporation, Chicago, Ill. Film shrinkage control. 1,943,687; Jan. 16.
Mercer, Raymond C., Los Angeles, Calif. Treating motion-picture films to provide fade-in and fade-out effects. 1,943,389; Jan. 16.
Meteor Electric Corporation. (See Taubner, Frank, assignor.)
Metlox Corporation. (See Prouty, Willis O., assignor.)
Metro-Goldwyn-Mayer Corporation. (See Arnold, John C., assignor.)
Meyer, Andre J., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 1,943,544; Jan. 16.
Meyer, Andre J., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 1,944,013; Jan. 16.
Middlemiss, Austin O., Portland, Oreg. Combination jack. 1,943,737; Jan. 16.
Miller, Ernest B., assignor, by mesne assignments, to C. F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md. Refrigeration apparatus. 1,943,616; Jan. 16.
Miller, Ernest B., assignor, by mesne assignments, to C. F. Hockley, receiver for Silica Gel Corporation, Baltimore, Md. Adsorber. 1,943,617; Jan. 16.
Miller, Samuel C., Louisville, Ky. Cigarette package. 1,943,924; Jan. 16.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar, etc. 1,944,129; Jan. 16.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Operation of the by-product recovery system of a coal distillation plant. 1,944,130; Jan. 16.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Recovery of tar acids. 1,944,131; Jan. 16.
Miller, William J., Swissvale, Pa. Ware transferring apparatus. 1,943,483; Jan. 16.
Mirick, Carlos B., Washington, D. C., assignor to National Electric Supply Company, New York, N. Y. Visual indicating radiocompass. 1,943,329; Jan. 16.
Mitchell, Courtney N., Cleveland Heights, assignor to The J. & M. Machine Company, Cleveland, Ohio. Steering wheel. 1,943,545; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Method and apparatus for the intertreatment of liquid and solid materials. 1,943,330; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Treating ores. 1,943,331; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Chloridizing ores by means of ferric chloride. 1,943,332; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Chloridizing metallurgical ores. 1,943,333; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Treating metallurgical ores. 1,943,334; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Chloridizing metallurgical ores. 1,943,335; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Chloridizing sulphide ores. 1,943,336; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Treating sulphide ores to chloridize the same. 1,943,337; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Treating tin bearing ores. 1,943,338; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Treating silver bearing ores. 1,943,339; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Recovering values from a sulphide ore. 1,943,340; Jan. 16.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Producing metal chlorides from ores. 1,943,341; Jan. 16.
Moe, Andrew C., Toppenish, Wash., assignor to Food Machinery Corporation, San Jose, Calif. Drier. 1,943,874; Jan. 16.
Molyneaux, Edward J., Barberton, Ohio, assignor to The Diamond Match Company, Baltimore, Md. Apparatus for staining the margins of sheet blanks. 1,943,450; Jan. 16.
Monad Paint and Varnish Company. (See McCrudden, Daniel J., jr., assignor.)
Moomy, Charles S. (See Williams, T. H., and Moomy.)
Mooney, Howard B., assignor to P. C. Dunlevy, Pittsburgh, Pa. Spaceband cleaner. 1,944,014; Jan. 16.
Moore, Charles W., St. Clair, and C. W. Crumb, Detroit, Mich., assignor to Oliver United Filters Inc., San Francisco, Calif. Drying filter. 1,943,618; Jan. 16.
Moore, Edward G., Glenside, assignor to L. Wolf, E. Wolf and H. A. Wolf, copartners trading as Wolf Brothers, Philadelphia, Pa. Envelope and blank therefor. 1,943,688; Jan. 16.
Moore, Roscoe, Kingston, Pa. Braking apparatus. 1,944,102; Jan. 16.
Moreno, Gabriel G., assignor to Moreno-Snyder Cine Corporation, Ltd., Los Angeles, Calif. Motion picture optical system and apparatus. 1,943,689; Jan. 16.
Moreno-Snyder Cine Corporation. (See Moreno, Gabriel G., assignor.)
Morey, Edwin, and R. H. Stimpson, Nashua, N. H., assignors, by mesne assignments, to F. L. Emery, Boston, Mass., G. H. Emery, executrix of said F. L. Emery, deceased. Packaging machine. 1,943,770; Jan. 16.

Morgan & Wright. (See Abbott, A. O., jr., and McNeill, assignors.)
Moritz, Daniel A. (See Cold, M. G., and Moritz.)
Morrison, George D., Santa Barbara, Calif. Sectional wall and erecting it. 1,943,800; Jan. 16.
Morrison, Robert T., and E. J. Croft, Le Roy, N. Y. Sewer trap. 1,943,690; Jan. 16.
Mortensen, Cornelius, Louisville, Ky. Heat exchange apparatus. 1,943,484; Jan. 16.
Mortimer, Winfield F., assignor to Emco Manufacturing Company, Milwaukee, Wis. Draft regulator. 1,943,342; Jan. 16.
Mosgrove, Charles A., Waterbury, assignor to The Autoyre Company, Incorporated, Oakville, Conn. Soap dish. Des. 91,864; Jan. 16.
Motor Wheel Corporation. (See Platt, Howard I., assignor.)
Moyer, Charles E., Long, Md. Process and composition for hardening copper. 1,943,738; Jan. 16.
Mudge, William A., and C. G. Bieber, Huntington, W. Va. Method and apparatus for testing materials. 1,943,619; Jan. 16.
Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Hemmer. 1,943,801; Jan. 16.
Muir, Robert W. (See Marshall, Jean H., assignor.)
Müller, Carl, Berlin-Charlottenburg, Germany. Analyzing and translating energy forms. 1,943,898; Jan. 16.
Müller, Carl, Berlin-Charlottenburg, Germany. Analyzing and translating energy forms. 1,943,899; Jan. 16.
Müller, Carl, Berlin-Charlottenburg, Germany. Picture transmitting apparatus. 1,943,900; Jan. 16.
Muller, Jacques, La Garenne Colombes, France. Valve mechanism for cutting off the supply of liquid to reservoirs, casks, and other containers. 1,943,536; Jan. 16.
Munn, Lewis H., Birmingham, Ala. Steam and water gauge cock. 1,943,941; Jan. 16.
Murray Corporation of America, The. (See Northup, Amos E., assignor.)
Murray, Edward J. (See Cantwell, Joseph M., assignor.)
Murray, James D., Lakemba, New South Wales, Australia. Land wheel. 1,943,620; Jan. 16.
Murray-Ohio Manufacturing Company, The. (See Kraeft, Herman L., assignor.)
Nachtrieb, Charles G., Berwyn, Ill. Hinge. 1,943,691; Jan. 16.
Naewiger, Wilhelm, Dresden, Germany. Roll film for photographic cameras. 1,944,132; Jan. 16.
Nagelvoort, Adriaan, assignor to Delaware Chemical Engineering Company, Wilmington, Del. Cleaning iron and steel. 1,943,875; Jan. 16.
Nakken Patents Corporation. (See Nakken, Theodorus H., assignor.)
Nakken, Theodorus H., New York, N. Y., assignor to Nakken Patents Corporation. Photoelectric tube. 1,943,984; Jan. 16.
Nashan, Paul. (See Heckel, W., and Nashan.)
Nashville Machine and Supply Company. (See Hertenstein, Jacob R., assignor.)
National Air Conditioning Company. (See Howry, Hobart B., assignor.)
National Cash Register Company, The. (See Williams, Harry J., assignor.)
National Electrical Supply Company. (See Mirick, Carlos B., assignor.)
National India Rubber Company. (See Hopkinson, Ernest, assignor.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
National Rubber Machinery Company. (See Williams, T. H., and Meomy, assignors.)
National-Standard Company. (See Pierce, Robert C., assignor.)
National Supply Company, The. (See Mahan, Joseph R., assignor.)
National Transit Pump & Machine Company. (See Staley, Benjamin M., assignor.)
Naugatuck Chemical Company, The. (See Dunfield, Walter W., assignor.)
Navy, Secretary of. (See Babbitt, Herbert S., assignor.)
Nawiasky, Paul, Ludwigshafen-on-the-Rhine, B. Stein, Mannheim, and A. Krause, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Production of anthraquinone derivatives. 1,943,876; Jan. 16.
Naylor, Joseph F., Earlestown, Newton-le-Willows, assignor to T. & T. Vicars Limited, Earlestown, England. Transferring of individual articles such as biscuits. 1,944,103; Jan. 16.
Ne-Arga Corporation. (See Spaeth, Charles, assignor.)
Needham, John T., North Plainfield, N. J., assignor to General Conveyors Limited, Montreal, Canada. Pneumatic dispatch tube apparatus. 1,943,451; Jan. 16.
Neufeld, Leonard C. (See Read, H. D., and Neufeld.)
New Products Corporation. (See Banker, Oscar H., assignor.)
Newman, William J., Chicago, Ill. Drilling apparatus. 1,943,835; Jan. 16.
Nicolson, Alexander M., assignor to Communication Patents, Inc., New York, N. Y. Sound reproduction. Re19,051; Jan. 16.
Niedermann, Albert, Hongg, near Zurich, Switzerland. Compass for orientation. 1,944,104; Jan. 16.
Noblitt-Sparks Industries, Inc. (See Hamilton, Bertis F., assignor.)
Noirot, Jean, Paris, France. Medical gas producer employing a heated liquid. 1,944,140; Jan. 16.
Nolan, John R., New York, N. Y. Mechanism for applying reenforcing wire to clothespins. 1,943,452; Jan. 16.
Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Co., Chicago, Ill. Balancer. 1,943,453; Jan. 16.
Norma-Hoffman Bearings Corporation. (See Ege, Gustav, assignor.)
Northrup, Amos E., Pleasant Ridge, assignor to The Murray Corporation of America, Detroit, Mich. Automobile body. Des. Re19,052; Jan. 16.
Northrup, Edwin F., Princeton, assignor to Ajax Electrothermic Corporation, Ajax Park, N. J. Electric induction furnace. 1,943,802; Jan. 16.
Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind. Brake operator. 1,943,836; Jan. 16.
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Tool Co., Inc., New York, N. Y. Method and machine for making envelopes of the open-end type. 1,943,985; Jan. 16.
Nowosielski, Edward B., Bloomfield, assignor to Eclipse Aviation Corporation, East Orange, N. J. Spark plug. 1,943,739; Jan. 16.
Noyes, John D., Detroit, Mich. Connection device. 1,943,692; Jan. 16.
Nyman, Alexander, Dobbs Ferry, assignor to Radio Patents Corporation, New York, N. Y. Resistance coupled amplifier. 1,943,986; Jan. 16.
O. & S. Bearing Company. (See Skillman, Newton, assignor.)
Oakes Manufacturing Company, The. (See Abendroth, Elmer T., assignor.)
Oberphos Company, The. (See Waggaman, William H., assignor.)
O'Connell, John J., assignor to International Envelope Corporation, Dayton, Ohio. Printing. 1,943,987; Jan. 16.
Oliver United Filters Inc. (See Moore, C. W., and Crumb, assignors.)
Olson, Gustave J., Hastings, Nebr. Interchangeable house number. 1,943,740; Jan. 16.
Oltarsh, J. (See Lesser, Paul, assignor.)
Oltarsh, J. (See Little, John B., assignor.)
Oltarsh, J. (See Von Eisenbarth, August, assignor.)
Oltarsh, J. (See Willheim, William, assignor.)
O'Neil, James T. (See Griffin, R. L., and O'Neil.)
Ormsby, Leslie E. (See Ormsby, Roy E., and L. E.)
Ormsby, Roy E., Wakefield, and L. E. Ormsby, Watertown, Mass. Housed gearing. 1,943,698; Jan. 16.
Osborne, Herbert A., Brookville, Pa. Spacer for joints in wall construction. 1,943,485; Jan. 16.
Oser, Alfred, Vienna, Austria. Apparatus for mounting samples on cards and the like. 1,943,390; Jan. 16.
Osler, Harold C., et al. (See Harris, George J., assignor.)
Ostwald, Ulrich, assignor to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Planographic printing base and preparing it. 1,943,486; Jan. 16.
Otis Elevator Company. (See Lindquist, D. L., Handy, and Margles, assignors.)
Owen Automatic Spring Machinery Company, The. (See Owen, David T., assignor.)
Owen, David T., Cleveland, Ohio, assignor to The Owen Automatic Spring Machinery Company. Clipping machine. 1,943,546; Jan. 16.
Owens, Freeman H., New York, N. Y. Recording sound photographically. 1,943,925; Jan. 16.
Oxweld Acetylene Company. (See Wagner, Robert L., assignor.)
Pacific Pump Works. (See Bigelow, G. E., and Weis, assignor.)
Package Improvement Company. (See Ware, Richard P., assignor.)
Package Machinery Company. (See Smith, E. L., and Melhorn, assignors.)
Packard Motor Car Company. (See Paton, Clyde R., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Padgett, Joseph E., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Control mechanism for motor vehicles. 1,943,894; Jan. 16.
Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,365; Jan. 16.
Paget, Richard A. S., Lancaster Gate, assignor to Thermal Syndicate Limited, Neptune Bank, Wallsend-on-Tyne, England. Lighting unit. 1,943,877; Jan. 16.
Paine, Ellery B., J. Tykocinski-Tykociner, and H. A. Brown, assignors to Board of Trustees, University of Illinois, Urbana, Ill. Testing insulation. 1,943,391; Jan. 16.
Paine, Ellery B., J. Tykocinski-Tykociner, and H. A. Brown, assignors to Board of Trustees, University of Illinois, Urbana, Ill. Testing cables. 1,943,392; Jan. 16.
Pardee, Howard J. (See Ruth, Edward D., assignor.)
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Baltimore, Md. Apparatus for staining the margins of sheet blanks. 1,943,454; Jan. 16.

Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Baltimore, Md. Machine for making book matches. 1,943,455; Jan. 16.
Parrish, Mary B., Philadelphia, Pa. Coating compound. 1,943,926; Jan. 16.
Paton, Clyde R., Birmingham, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,943,547; Jan. 16.
Paugh, James J., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Welding electrode. 1,943,771; Jan. 16.
Paulin, Josua G., Eskilstuna, Sweden. Measuring and registering instrument. 1,943,393; Jan. 16.
Peake, Edward S., assignor to The Kilgore Manufacturing Company, Westerville, Ohio. Lock. 1,943,988; Jan. 16.
Pecker, Joseph S., Philadelphia, Pa. Hose insert. 1,943,741; Jan. 16.
Pedelty, Walter B., Mason City, Iowa. Pulverizing process and apparatus. Re19,049; Jan. 16.
Pedersen, Niels, Marion, Pa., assignor to Armoured Films Limited, London, England. Reenforcing cinematograph film. 1,943,989; Jan. 16.
Pedersen, Niels, Marion, Pa., assignor to Armoured Films Limited, London, England. Reenforcing cinematograph film. 1,943,990; Jan. 16.
Pelletier, Louis F. (See Ciglia, E. F., and Pelletier.)
Pennsylvania Lubricating Company. (See Reswick, Maurice, assignor.)
Perkins, Laurence M., Dayton, Ohio, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Antenna. 1,943,394; Jan. 16.
Perrot, Henri, Paris, France, assignor, by mesne assignments, to Bendix Aviation Corporation, Chicago, Ill. Brake drum closure. 1,943,837; Jan. 16.
Perry, Frank S., Gorman, Tex. Press-door counterbalance. 1,943,695; Jan. 16.
Persons, Charles A., assignor to Persons-Majestic Manufacturing Company, Worcester, Mass. Light reflecting device. 1,943,621; Jan. 16.
Persons-Majestic Manufacturing Company. (See Persons, Charles A., assignor.)
Peterbans, Emil J. (See Larsh, E. P., and Peterhans.)
Peterkin, Albert G., jr., Bryn Mawr, assignor to The Atlantic Refining Company, Philadelphia, Pa. Oil conversion. 1,943,396; Jan. 16.
Peters, Eugene H., Benton Harbor, Mich. Fruit container. 1,944,105; Jan. 16.
Pfeiffer, George S., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Television apparatus. 1,943,395; Jan. 16.
Philadelphia Drying Machinery Company, The. (See Galson, Henry L., assignor.)
Philadelphia Screen Mfg. Company. (See Mearkle, Harry L., assignor.)
Philips, N. V., Gloielampenfabrieken. (See Bouwers, Albert, assignor.)
Phillips, Albert C. (See Adams, John H., assignor.)
Phillips, Arthur V., London, Ontario, Canada, assignor to Kelvinator Corporation, Detroit, Mich. Milk cooler. 1,943,991; Jan. 16.
Phillips, Ross M. G., West Haven, assignor to The Bassick Company, Bridgeport, Conn. Fastening for automobile hoods. 1,943,927; Jan. 16.
Platt, Howard I., assignor to Motor Wheel Corporation, Lansing, Mich. Heating apparatus. 1,943,622; Jan. 16.
Piazzoli, Theodore J., assignor to Capstan Glass Company, Connellsville, Pa. Jar or similar article. Des. 91,366; Jan. 16.
Pierce, Robert C., assignor to National-Standard Company, Niles, Mich. Lamp shade. 1,943,928; Jan. 16.
Pierce Steel Pile Corporation. (See Budd, Robert D., assignor.)
Pioneer Instrument Company. (See Simmons, John W., assignor.)
Pitman, Henry L., Westfield, N. J., assignor to Elliott-Fisher Company, New York, N. Y. Combined typewriting and computing machine. 1,943,548; Jan. 16.
Ponting, Herbert G., Oxford Circus, London, and G. W. Ford, Kensington, London, England, assignors to Kinatone Patents Corporation. Film handling apparatus. 1,944,032; Jan. 16.
Poppe, George W., assignor to Equitable Paper Bag Co., Inc., Brooklyn, N. Y. Bag-making machine. 1,943,549; Jan. 16.
Port Colbourne Iron Works. (See Heighton, Henry E., assignor.)
Porter, Francis L., High Point, N. C., assignor to Logan Porter Mirror Company. Decorative reflective article. 1,943,623; Jan. 16.
Porter, Logan, Mirror Company. (See Porter, Francis L., assignor.)
Posey, Thomas W., Brownwood, Tex., assignor of one-fourth to S. C. Holloway. License plate. 1,943,343; Jan. 16.
Posner, Samuel, Jackson Heights, N. Y. Button. Des. 91,367; Jan. 16.
Potter, Albert T., Detroit, Mich., assignor to Ainsworth Manufacturing Corporation. Seat control mechanism. 1,943,550; Jan. 16.
Potter, John A., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Heat exchange apparatus. 1,943,456; Jan. 16.
Powers, Raymond W. (See Castner, J. B., and Powers.)
Precision Castings Company. (See Lester, Nathan, assignor.)
Prentiss, Evarts L., executor. (See Cowles, Alfred H.)
Presbrey, Otis F., Brooklyn, N. Y. Article handling device. 1,943,742; Jan. 16.
Proctor, Barton A. (See Bundick, C. U., and Proctor.)
Proctor, Barton A., Pelham, assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y. Photographic apparatus. 1,944,033; Jan. 16.
Proctor, Barton A., Pelham Manor, assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y. Film handling apparatus. 1,944,035; Jan. 16.
Proctor, Barton A., Pelham Manor, assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y. Film handling apparatus. 1,944,036; Jan. 16.
Proctor, Barton A., Pelham Manor, assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y. Film handling and apparatus therefor. 1,944,037; Jan. 16.
Proctor, Barton A., Larchmont, N. Y., assignor, by mesne assignments, to Kinatome Patents Corporation. Repeat projecting machine. 1,944,034; Jan. 16.
Prouty, Willis O., Hermosa Beach, assignor to Metlox Corporation, Ltd., Manhattan Beach, Calif. Luminous tube sign. 1,943,772; Jan. 16.
Prouty, Willis O., Hermosa Beach, Calif. Razor blade sharpener. Des. 91,868; Jan. 16.
Psorakes, Paul, and G. Hallien, Uniontown, Pa. Shoe machine. 1,944,015; Jan. 16.
Pudelko, Riccard, Zug, Switzerland, assignor to Landis & Gyr, A.-G. Time switch mechanism. 1,943,878; Jan. 16.
Pym, Charles F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,943,344; Jan. 16.
Quevrain, Hippolyte. (See Quevrain, Léon and H.)
Quevrain, Léon, and H. Quevrain, Paris, France. Change speed gear. 1,943,396; Jan. 16.
Quincy Stove Manufacturing Company, The. (See Lange, Henry, assignor.)
Quintavalle, Umberto, assignor to Fabbrica Italiana Magneti Marelli, Società Anonima, Milan, Italy. Flexible coupling. 1,943,942; Jan. 16.
Radford, William H., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Motor vehicle. 1,943,551; Jan. 16.
Radio Corporation of America. (See Barden, William S., assignor.)
Radio Corporation of America. (See Bartelink, Albertus A., assignor.)
Radio Corporation of America. (See Braden, Rene A., assignor.)
Radio Corporation of America. (See Brown, Freeman L., assignor.)
Radio Corporation of America. (See Perkins, Laurence M., assignor.)
Radio Corporation of America. (See Roberts, Walter V., assignor.)
Radio Corporation of America. (See Round, H. J., and Willans, assignors.)
Radio Corporation of America. (See Stose, Harold F., assignor.)
Radio Corporation of America. (See Williams, Selden T., assignor.)
Radio Corporation of America. (See Zimmerman, Arthur G., assignor.)
Radio Frequency Laboratories, Incorporated. (See Farnham, Paul O., assignor.)
Radio Frequency Laboratories, Incorporated. (See Farnham, P. O., and Argento, assignors.)
Radio Frequency Laboratories, Incorporated. (See Franks, Christopher J., assignor.)
Radio Patents Corporation. (See Nyman, Alexander, assignor.)
Ragsdale, Earl J. W., Norristown, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Method and product of electric welding. 1,944,106; Jan. 16.
Ramsey, Erle M., Shiprock, N. Mex., assignor to Continental Oil Company, Ponca City, Okla. Attachment for pump jacks. 1,943,624; Jan. 16.
Rarick, Charles E., Weedsport, N. Y. Form puller. 1,943,803; Jan. 16.
Ratcliff, Charles F. (See Macadie, D., and Ratcliff.)
Rayburn, Alden G., Sausalito, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation. Rotary hydraulic power transmission. 1,943,929; Jan. 16.
Rea, Walter C., assignor to Detachable Bit Corporation of America, New York, N. Y. Drill. 1,943,879; Jan. 16.
Rea, Walter C., assignor to Detachable Bit Corporation of America, New York, N. Y. Drill. 1,943,880; Jan. 16.
Read, Harold D., and L. C. Neufeld, assignors to Standard Oil Company, Chicago, Ill. Dry cleaning device. 1,943,552; Jan. 16.
Reed Roller Bit Company. (See Giesey, Russell, assignor.)
Reed, William A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe finishing tool. 1,943,457; Jan. 16.
Reiman, Paul, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 91,369; Jan. 16.

Reiman, Paul, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 91,370; Jan. 16.
Reiman, Paul, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 91,371; Jan. 16.
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Totally inclosed dynamo-electric machine. 1,944,107; Jan. 16.
Remington Arms Company. (See Brün, Willi, assignor.)
Remington Arms Company. (See Woodford, Watson H., assignor.)
Remington Rand Inc. (See Wolters, Carl F., assignor.)
Reo Motor Car Company. (See Thomas, Horace T., assignor.)
Replogle, John R. (See Ruthenburg, L., Replogle, and McPhail.)
Resengin, Inc. (See Freeman, Lowell C., assignor.)
Reswick, Maurice, Pittsburgh, Pa., assignor to Pennsylvania Lubricating Company. Grease distributing system. 1,943,838; Jan. 16.
Revere Rubber Company. (See Gammeter, John R., assignor.)
Rhodes, M. H., Inc. (See Rhodes, M. H., and Fanzoi, assignors.)
Rhodes, Marcus H., New Haven, and J. Fanzoi, Hartford, assignors to M. H. Rhodes, Inc., New Haven, Conn. Switch. 1,943,839; Jan. 16.
Riberolles, René, Paris, France. Apparatus for determining the course and speed of aircraft. 1,943 397; Jan. 16.
Rice, Grace E. (See Rice, Linville S. and G. E., and Johnson.)
Rice, Linville S. and G. E., and I. L. Johnson, Loomis, Calif. Moccasin. 1,943,743; Jan. 16.
Richard, Louis M., Woodbridge, Conn. Platform for use with ladders, etc. 1,943,626; Jan. 16.
Richards, Daniel W., Roanoke, Va., assignor to Magnetic Signal Co., Los Angeles, Calif. Crossing signal. 1,943,625; Jan. 16.
Richardson, Roger W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovery of ammonia from cook liquor. 1,943,345; Jan. 16.
Richter, Robert, assignor to the firm Carl Zeiss, Jena, Germany. Quartz plate for half-shade polarimeters. 1,943,554; Jan. 16.
Ricker, Frank L., assignor, by mesne assignments, to The Burrowes Corporation, Portland, Oreg. Ventilator screen. 1,944,133; Jan. 16.
Ricker Norman H., assignor to Hughes Tool Company, Houston, Tex. Hydraulic plunger stop. 1,943,533; Jan. 16.
Riesenberg, Henry, Minneapolis, Minn. Face steaming mask. 1,943,992; Jan. 16.
Ringrose, Henry T., West Park, Leeds, England. Detecting, indicating, and recording the presence of inflammable vapors or gases. Re19,048; Jan. 16.
Roberts, Walter Van B., Princeton, N. J., assignor to Radio Corporation of America. Superheterodyne frequency changing circuits. 1,943,458; Jan. 16.
Robertson, John C., Annapolis, assignor to Locke Insulator Corporation, Baltimore, Md. Insulator assembling machine. 1,944,134; Jan. 16.
Robinson, Joseph, New York, N. Y. Electrically heated atomizer. 1,944,108; Jan. 16.
Rock, John P., Duluth, Mo. Brake and clutch. 1,943,930; Jan. 16.
Rockwell, Edward A., Chicago, Ill. Fuel pump. 1,943,901; Jan. 16.
Rode, Fredrich J., Chicago, Ill. Metal working press. 1,943,555; Jan. 16.
Rogers, Edmund. (See Werder, John F., assignor.)
Rohlin, Victor A. (See Gibson, G. H., and Rohlin.)
Róka, Koloman, Constance, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Production of acetone. 1,944,109; Jan. 16.
Roosenstein, Hans O. (See Rothe, H., and Roosenstein.)
Root, A. I., Company, The. (See Root, Alan I., assignor.)
Root, Alan I., assignor to The A. I. Root Company, Medina, Ohio. Beehive frame spacer. 1,943,773; Jan. 16.
Rosenblad, Curt F. (See Linderoth, Erik T., assignor.)
Rosenstein, Ludwig, San Francisco, Calif. Removing mercaptans from hydrocarbons. 1,943,744; Jan. 16.
Ross, Oscar A., New York, N. Y. System for recording sound. 1,943,556; Jan. 16.
Rothe, Horst, and H. O. Rosenstein, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. High-frequency oscillator. 1,943,627; Jan. 16.
Round, Henry J., London, and P. W. Willans, Towcester, England, assignors to Radio Corporation of America. Thermionic valve circuits. 1,943,459; Jan. 16.
Row, Frederick R., Toronto, Ontario, Canada. Box-making machine. 1,943,840; Jan. 16.
Rowe, Samuel B. (See Blane, F. J., and Rowe.)
Royal Brass Manufacturing Company, The. (See Schultis, Charles F., assignor.)
Royal Electrotype Company. (See Haines, Rush T., assignor.)
Rubber Service Laboratories Company, The. (See Ingram, Joseph R., assignor.)
Ruch, Herman J., Woodbury Heights, N. J., assignor, by mesne assignments, to Baldwin-Southwark Corporation. Wedge grip for testing machines. 1,943,931; Jan. 16.
Rummler, Eugene A., Winnetka, Ill. Fountain pen filler. 1,943,804; Jan. 16.
Russell Manufacturing Company, The. (See Dowd, Raymond E., assignor.)
Ruth, Edward D., Lancaster, Pa., assignor to H. J. Pardee, Long Island City, N. Y. Chlorinating water. 1,943,487; Jan. 16.
Ruthaldo Company (Inc.) (See Barthelemy, Henri L., assignor.)
Ruthenburg, Louis, Birmingham, J. R. Replogle, and H. R. McPhail, Detroit, Mich., assignors to Copeland Products, Inc. Heat exchange device. 1,943,557; Jan. 16.
Safety Car Heating & Lighting Company, The. (See Godsey, Frank W., jr., assignor.)
Safety Car Heating & Lighting Company, The. (See Hulse, George E., assignor.)
Safety Car Heating & Lighting Company, The. (See Hulse, G. E., and Strobell, assignors.)
Safety Car Heating & Lighting Company, The. (See Strobell, J. D., and Hulse, assignors.)
Safety Car Heating & Lighting Company, The. (See Von Ohlsen, Louis H., assignor.)
Safety Car Heating & Lighting Company, The. (See Von Ohlsen, L. H., and Godsey, assignors.)
Saldich, Joseph, New York, N. Y. Sweat band. 1,944,110; Jan. 16.
Sanford, Henry, New York, N. Y. Garment hanger. 1,943,745; Jan. 16.
Sanford Mills. (See Emery, G. G., Knowlton, and Bennett, assignors.)
Sanford, Roy S., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,943,841; Jan. 16.
Sanford, Roy S., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 1,943,842; Jan. 16.
Sargent, Don A., Portland, Maine. Combined loading and transporting equipment. 1,943,398; Jan. 16.
Schade, John A. (See Bridgeman, W. A., and Schade.)
Schaefer, Josef, Dortmund, Germany. Regenerative oven. 1,943,558; Jan. 16.
Schleren, Harrie V., Montclair, N. J. Apparatus for producing designs. 1,944,111; Jan. 16.
Schlaak, Ervin A. (See Stoner, R. V., and Schlaak.)
Schlegelmilch, Ralph B., Flint, Mich. Toy boat. 1,943,488; Jan. 16.
Schmelkes, Franz C. (See Baker, J. C., and Schmelkes.)
Schnecko, Otto. (See Schwalbe, W., and Schnecko.)
Schoenwerk, Otto C., Chicago, Ill., assignor to Chemipulp Process, Inc., Watertown, N. Y. Process and apparatus for digesting fibrous material. 1,943,489; Jan. 16.
Scholl, C. M., et al. (See Wilkins, Charles L., assignor.)
Schröder, Herbert, Triebes, Germany. Dough dividing and working machine. 1,944,112; Jan. 16.
Schubert, Fritz. (See Wilke, K., Stock, and Schubert.)
Schuck, Conrad, and G. Layer, East Orange, N. J. Safety gas burner control. 1,943,490; Jan. 16.
Schultis, Charles F., assignor to The Royal Brass Manufacturing Company, Cleveland, Ohio. Drain valve for bathtubs and the like. 1,943,628; Jan. 16.
Schultz, Edwin, Minneapolis, Minn. Game. 1,943,697; Jan. 16.
Schundler, F. E., & Company et al. (See Denning, Paul S., assignor.)
Schurmann, William A., Chicago, Ill., assignor to Mapes Consolidated Manufacturing Company, Grifith, Ind. Luncheon plate. 1,943,698; Jan. 16.
Schwalbe, Waldemar, Wiesbaden, and O. Schnecko, Biebrich-on-the-Rhine, assignors to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Preparing regenerated cellulose structures. 1,943,346; Jan. 16.
Schwartz, Harold M., Pittsburgh, Pa. Show window. 1,943,629; Jan. 16.
Schwarzkopf, Erich, Jackson Heights, assignor to Thomas W. Marshall, New York, N. Y. Multiplex transmission. 1,943,630; Jan. 16.
Scottish Dyes, Ltd. (See Fairweather, D. A. W., and Thomas, assignors.)
Seebach, Fritz, Erkner-Berlin, assignor to Bakelite Gesellschaft mit beschrankter Haftung, Berlin-Charlottenburg, Germany. Producing oil soluble phenolaldehyde condensation products. 1,944,016; Jan. 16.
Selden Company, The. (See Jaeger, A. O., and Daniels, assignors.)
Semet-Solvay Company. (See Cobb, Herbert B., assignor.)
Shalkop, Isaac C. (See Ginder, William H., assignor.)
Shand, Reginald C., Piedmont, Calif. Dispensing apparatus. 1,943,843; Jan. 16.
Shaw, Harold E., Bridgeport, Conn. Airplane. 1,943,774; Jan. 16.
Shenton, Francis, assignor to Frick Company, Waynesboro, Pa. Solenoid shut-off valve. 1,944,113; Jan. 16.
Sherwood, Glenn L. (See Stockfleth, B., and Sherwood.)
Siemens & Halske, Aktiengesellschaft. (See Ewald, Waldemar, assignor.)
Sieper, Fritz, Barmen-Langerfeld, assignor to the firm Barmer Maschinenfabrik A.-G., Barmen-Rittershausen, Germany. Gear-wheel pump for artificial silk spinning machine. 1,943,491; Jan. 16.
Silica Gel Corporation, The. (See Connolly, G. C., and Wurzbacher, assignors.)
Silica Gel Corporation, The. (See Lewis, Samuel R.)
Silica Gel Corporation, The. (See Miller, Ernest B., assignor.)
Silica Products Company. (See Cross, Roy, assignor.)
Simmons, John W., Cleveland, Ohio, assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Determining the synchronism of electrical systems. 1,943,746; Jan. 16.

Simpson, Frank M. (See MacDonald, John J., assignor.)
Simpson, Ward T., and J. B. Bentley, assignors to Henry Randel Dickinson, Grand Rapids, Mich. Window. 1,943,932; Jan. 16.
Singer Manufacturing Company, The. (See Herr, Park A., assignor.)
Skillman, Newton, assignor to O. & S. Bearing Company, Detroit, Mich. Forming a connecting unit for shock absorbers and the like. 1,943,631; Jan. 16.
Skowlund, Nels T., Marinette, Wis. Ice cream freezing attachment. 1,944,114; Jan. 16.
Sloane, Reginald G. (See Becker, A. E., and Sloane.)
Slotnick, Leo, Brooklyn, N. Y. Key container. 1,943,844; Jan. 16.
Small, Norman M., assignor to Frick Company, Waynesboro, Pa. Refrigerant control for ice machines. 1,944,115; Jan. 16.
Smith, Elmer L., Longmeadow, and C. E. Melhorn, assignors to Package Machinery Company, Springfield, Mass. Machine for making packages with integral tearing strips. 1,943,559; Jan. 16.
Smith, Ernest J., Fleet Street, England, assignor to The Goss Printing Press Company, Chicago, Ill. Printing press. 1,943,902; Jan. 16.
Smith, Joseph K., Detroit, Mich., assignor to The Beryllium Corporation, New York, N. Y. Spring steel. 1,943,347; Jan. 16.
Smith, Joseph K., Detroit, Mich., assignor to The Beryllium Corporation, New York, N. Y. Steel for nitriding. 1,943,348; Jan. 16.
Smith, Kenneth, Kansas City, Mo. Golf club seal and making the same. 1,943,399; Jan. 16.
Smith, L C & Corona Typewriters Inc. (See Gabrielson, Carl, assignor.)
Smith, Russell T., Greenville, Mich. Cabinet. Des. 91,378; Jan. 16.
Smith, Wallace W., assignor to Inland Steel Company, Chicago, Ill. Making piling sections of general Z-shape. 1,943,933; Jan. 16.
Smith, William J., Lakewood, assignor to Cleveland Steel Products Corporation, Cleveland, Ohio. Liquid fuel burning apparatus. 1,943,632; Jan. 16.
Smithe, F. L., Machine Co. (See Novick, Abraham, assignor.)
Snell, A. H., et al. (See Snell, Philip N., jr., assignor.)
Snell, Lester W., Alton, Ill. Bending tubes. 1,943,700; Jan. 16.
Snell, Philip N., jr., assignor of three-eighths to A. H. Snell, and one-eighth to C. J. Landram, Houston, Tex. Drill. 1,943,699; Jan. 16.
Snelling, Walter O., Allentown, Pa. Metal leaf package. 1,943,747; Jan. 16.
Sola Corporation. (See Fischer, J. R., and Sola.)
Sola, Joseph G. (See Fischer, J. R., and Sola.)
Southern Minerals Products Corporation. (See Walker, G. E., Marshall, and Dunn, assignors.)
Southern Wood Preserving Company. (See White, R. H., jr., and Gillon, assignors.)
Spaeth, Charles, Flushing, N. Y. Electrical discharge device. 1,943,845; Jan. 16.
Spaeth, Charles, Flushing, assignor to Ne-Arga Corporation, New York, N. Y. Alternating current electrical discharge device. 1,943,846; Jan. 16.
Spaeth, Charles, Flushing, N. Y., assignor to Ne-Arga Corporation, Jersey City, N. J. Electrical discharge device. 1,943,847; Jan. 16.
Spaeth, Charles, Flushing, N. Y., assignor to Ne-Arga Corporation, Jersey City, N. J. Electrical discharge device. 1,943,848; Jan. 16.
Sperisen, Francis J., San Francisco, Calif. Eyecup. 1,943,349; Jan. 16.
Sperti, George, Covington, Ky., assignor to General Development Laboratories, Inc., New York, N. Y. Preparing enzymes. 1,943,633; Jan. 16.
Spicer Manufacturing Corporation. (See Padgett, Joseph E., assignor.)
Sprague, Wheeler S., Swarthmore, Pa. Insulation and means embodying the same. 1,943,701; Jan. 16.
Squires, John, Detroit, Mich. Making airplane propeller blades. 1,943,560; Jan. 16.
Staley, Benjamin M., assignor to National Transit Pump & Machine Company, Oil City, Pa. Blade for rotary pumps. 1,943,561; Jan. 16.
Standard Oil Company. (See Anderson, Lossie E., assignor.)
Standard Oil Company, The. (See Bailey, Edward A., assignor.)
Standard Oil Company. (See Hoefleur, Arthur, assignor.)
Standard Oil Company. (See Read, H. D., and Neufeld, assignors.)
Standard Oil Development Company. (See Becker, A. E., and Sloane, assignors.)
Standard Oil Development Company. (See Benton, L. G., Tate, and Lewtas, assignors.)
Standard Oil Development Company. (See Child, W. C., and Belswenger, assignors.)
Standard Oil Development Company. (See Hanks, W. V., and Freyermuth, assignors.)
Standard Oil Development Company. (See Harrington, Paul J., assignor.)
Standard Oil Development Company. (See Truman, Orley H., assignor.)
Standard Steel Spring Company. (See McMahon Harry R., assignor.)
Stark Bro's Nurseries & Orchards Company. (See Uecker, William, assignor.)
State Holding Co. (See Goodman, Louis, assignor.)
Stein, Berthold. (See Nawiasky, P., Stein, and Krause.)
Stein, Joseph S., Highland Park, assignor to Lucien Lelong, Inc., Chicago, Ill. Bottle or similar article. Des. 91872; Jan. 16.
Steindler, Leslie L., Mamaroneck, N. Y., assignor of one-fourth to C. B. Waters, Montclair, N. J. Automobile heating apparatus and system. 1,943,350; Jan. 16.
Stephene-Adamson Manufacturing Company. (See Kendall, Myron A., assignor.)
Sterling Company, The. (See Caston, Johnnye L., assignor.)
Stevenson, Laura S. (See Mayweg, Hugo, assignor.)
Steward, George H., Rutland, Vt. Nestless can lid. 1,944,017; Jan. 16.
Stewart, Carlton D. (See Hewitt, E. E., and Stewart.)
Stewart, Elon P., Syracuse, N. Y., and Louis H. Frost, Cleveland, Ohio, assignor to Cement-Gun Company, Inc. Differential meter. 1,943,993; Jan. 16.
Stickland, Oliver W. (See Burns, R., and Stickland.)
Stidd, Irvin, assignor of one-half to S. C. Beers, Mount Jewett, Pa. Connecter. 1,944,141; Jan. 16.
Still, Carl, Recklinghausen, Germany. Chamber oven for coal distillation. 1,943,562; Jan. 16.
Still, Carl, Recklinghausen, Germany. Coke oven charging machine. 1,943,634; Jan. 16.
Still, Carl, Recklinghausen, Germany. Coal charging truck. 1,943,635; Jan. 16.
Stimpson, Robert H. (See Morey, E., and Stimpson.)
Stock, Josef. (See Wilke, K., Stock, and Schubert.)
Stockfleth, Berger, and G. L. Sherwood, Niles, Mich., assignors, by mesne assignments, to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Forming bimetal trips for bearing sleeves. 1,943,351; Jan. 16.
Stoddard, Edgar S., Berwyn, assignor to The Conover Company, Chicago, Ill. Dishwashing machine. 1,943,636; Jan. 16.
Stoner, Robert V., and E. A. Schlaak, Muncie, Ind. Folding leg table. 1,943,563; Jan. 16.
Stose, Harold F., Haddonfield, N. J., assignor to Radio Corporation of America. Eccentric control groove for records. 1,943,460; Jan. 16.
Stratman, Edward A., San Leandro, Calif. Lever locking device. 1,944,116; Jan. 16.
Strobell, John D. (See Hulse, G. E., and Strobell.)
Strobell, John D., and G. E. Hulse, New Haven, Conn., assignors to The Safety Car Heating & Lighting Company. Refrigerating system for vehicles and the like. 1,943,994; Jan. 16.
Stucker, Carl O. (See Willmore, K. N., Carroll, and Stucker.)
Stug Kohlenstaubfeuerung Patentverwertung, G. m. b. H. (See Kempf, Willy, assignor.)
Sturgell, Garland H., Skagway, Alaska. Water transport for automobiles and the like. 1,943,564; Jan. 16.
Sturm, Erwin, Stuttgart-Botnang, Germany. High pressure rotary engine, especially for hydraulic transmissions. 1,943,637; Jan. 16.
Sturtevant, B. F., Company. (See Davis, Jesse H., assignor.)
Sullivan, Frank O. (See Fleischmann, J. A., Sullivan, Walton W. and F. O.)
Sullivan, Walton W. (See Fleischmann, J. A., Sullivan, Walton W. and F. O.)
Svendsen, Robert T. (See Chandler, D. G., and Svendsen.)
Swanson, Edwin C., Rockford, Ill. Micrometer gauge. 1,943,638; Jan. 16.
Sweet, Frederick D., New York, N. Y., assignor to Kinatome Patents Corporation. Apparatus for feeding material. 1,944,039; Jan. 16.
Sweet, Frederick D. (See Foster, W. D., and Sweet.)
Sweet, Frederick D., assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y. Film handling apparatus and footage recording device therefor. 1,944,038; Jan. 16.
Swennes, Benjamin A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Engine mounting. 1,943,849; Jan. 16.
Swift and Company. (See Davis, Elmer M., assignor.)
Symington Company, The. (See Kadel, Byers W., assignor.)
Symington, T. H., & Son, Inc. (See Symington, Thomas H., assignor.)
Symington, Thomas H., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Snubbed spring nest. 1,943,492; Jan. 16.
Symmonds, Charles J., Chevy Chase, Md. Bench dog. 1,943,352; Jan. 16.
Synchro Machine Company. (See Fantone, C. B., and Jameson, assignors.)
Syracuse Chilled Plow Company Inc. (See Cummings, Charles D., assignor.)
Takeshita, Mitsuto, Los Angeles, Calif. Vending machine. 1,943,702; Jan. 16.
Talbot, Howard H., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Apparatus for uncoiling metal strip. 1,943,748; Jan. 16.
Tam, Julius C., New York, N. Y. Lamp holder and fastener. 1,944,040; Jan. 16.
Tate, Howard R. (See Benton, L. G., Tate, and Lewtas.)
Tauber, Siegfrid, and L. Fischmann, Vienna, Austria, assignors, by mesne assignments, to Dunlop Rubber Company Limited, London, England. Stringing tennis rackets with strings. 1,943,400; Jan. 16.

Taubner, Frank, Bronx, assignor to Meteor Electric Corporation, New York, N. Y. Electric switch. 1,943,498; Jan. 16.

Taylor, George E., and L. E. Thompson, London, England, assignors to Ajax Electrothermic Corporation, Ajax Park, N. J., and Ajax Electric Furnace Corporation, Philadelphia, Pa. Tilting a furnace or other apparatus. 1,943,494; Jan. 16.

Taylor, Henry P., Walkerton, Va. Vegetable cleansing and blanching apparatus. 1,943,775; Jan. 16.

Taylor, William I., Spondon, near Derby, England, assignor to Celanese Corporation of America. Production of artificial filaments or threads by the dry spinning method. 1,943,353; Jan. 16.

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hermannspann, Paul, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Rothe, H., and Roosenstein, assignors.)

Telfer, Edmund V., Newcastle-upon-Tyne, England. Marine screw propeller. 1,943,934; Jan. 16.

Ternstedt Manufacturing Company. (See Hibbard, Thomas L., assignor.)

Texas Company, The. (See Dudley, O. E., and Lucid, assignors.)

Thatcher, Arthur G., Boyle, Alberta, Canada. Spoon support means for containers. 1,943,639; Jan. 16.

Thermal Syndicate Limited. (See Paget, Richard A. S., assignor.)

Thoen, Lowell H., Stockton, assignor to Caterpillar Tractor Co., San Leandro, Calif. Windrow adapter. 1,943,565; Jan. 16.

Thomas, Horace T., assignor to Reo Motor Car Company, Lansing, Mich. Combustion chamber for Diesel engines. 1,943,495; Jan. 16.

Thomas, James A., Los Angeles, Calif. Valve. 1,943,401; Jan. 16.

Thomas, John. (See Fairweather, D. A. W., and Thomas.)

Thompson, Harry A., North Hollywood, Calif. Fluid-operated gearing. 1,944,018; Jan. 16.

Thompson, James D., Duluth, Minn. Clip bagging machine. 1,944,041; Jan. 16.

Thompson, John W., Chicago, Ill. Marketing and means for shipping paints, etc. 1,944,042; Jan. 16.

Thompson, Leslie E. (See Taylor, G. E., and Thompson.)

Thompson, Lynden E., assignor to M. T. Thornton, Lompoc, Calif. Irrigation pipe joint. 1,943,496; Jan. 16.

Thornton, Margaret T. (See Thompson, Lynden E., assignor.)

Tichnor Brothers, Inc. (See Tichnor, Louis, assignor.)

Tichnor, Louis, Newton, assignor to Tichnor Brothers, Inc., Cambridge, Mass. Cover for a box, carton, or the like. Des. 91,374; Jan. 16.

Timme, E. F., & Son. (See Biva, Lucien, assignor.)

Titmas Company, Inc. (See Titmas, Reginald W., assignor.)

Titmas, Reginald W., assignor to Titmas Company, Inc., New Orleans, La. Oil burner. 1,944,043; Jan. 16.

Titus, Hubert J., Paterson, N. J., assignor to Franklin Railway Supply Company, New York, N. Y. Locomotive auxiliary port controlling mechanism. 1,943,703; Jan. 16.

Toledo Pipe Threading Machine Co., The. (See Vosper, William W., assignor.)

Töpfer, Georg, Munich, Germany. Steering lock wheel. 1,943,704; Jan. 16.

Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Thermostatic switch. 1,944,044; Jan. 16.

Traill, David, and A. S. Levesley, Saltcoats, Scotland, assignors to Imperial Chemical Industries, Ltd. Cellulose ether and making same. 1,943,461; Jan. 16.

Trampler, Charles R., sr., St. Louis, Mo. Protector for drinking vessels. 1,944,045; Jan. 16.

Transit Mixers Inc. (See Knowles, Albert, assignor.)

Treanor, John E., Nogales, Ariz. Carbonating apparatus. 1,943,903; Jan. 16.

Trent, Harold E., Lansdowne, Pa. Wax holder. 1,943,749; Jan. 16.

Treptow, George R., assignor to Camel Company, Chicago, Ill. Car construction. 1,943,640; Jan. 16.

Tretolite Company. (See DeGroote, Melvin, assignor.)

Trubert, René, Arras, Pas-de-Calais, France. Automatic mixer for hot and cold water. 1,943,705; Jan. 16.

Truman, Orley H., Houston, Tex., assignor to Standard Oil Development Company. Magnetometer. 1,943,850; Jan. 16.

Tryon, George G., Glendale, Calif. Fluid heater economiser. 1,943,750; Jan. 16.

Tryon, William A., Elmira, N. Y. Spring hanger. 1,943,566; Jan. 16.

Tucker, James W. (See Cunningham, H. B., and Tucker.)

Tweed, Frederick H., Chicago, Ill. Air valve. 1,943,462; Jan. 16.

Tweedie, Charles, Jefferson City, Mo. Hand protector. 1,943,567; Jan. 16.

Tykocinski-Tykociner, Joseph. (See Paine, E. B., Tykocinski-Tykociner, and Brown.)

Udale, Stanley M., assignor, by mesne assignments, to Erb-Joyce Foundry Company, Detroit, Mich. Brake drums. 1,943,641; Jan. 16.

Uechre, William, Cashmere, Wash., assignor to Stark Bro's. Nurseries & Orchards Company, Louisiana, Mo. Apple tree. Pl. Pt. 85; Jan. 16.

Underdrose, Fr. A. (See Zaschka, Engelbert, assignor.)

Union Bank & Trust Co. of Los Angeles, administrator. (See Delaney, John H.)

United Engineering & Foundry Company. (See Talbot, Howard H., assignor.)

United Shoe Machinery Corporation. (See Bates, A., and Keall, assignor.)

United Shoe Machinery Corporation. (See Bassoni, Lewis J., assignor.)

United Shoe Machinery Corporation. (See Goddu, George, assignor.)

United Shoe Machinery Corporation. (See Greenough, Henry B., assignor.)

United Shoe Machinery Corporation. (See Hogan, Patrick J., assignor.)

United Shoe Machinery Corporation. (See Johnson, Arthur S., assignor.)

United Shoe Machinery Corporation. (See Keal, Frank B., assignor.)

United Shoe Machinery Corporation. (See Kilham, Charles C., assignor.)

United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)

United Shoe Machinery Corporation. (See Reed, William A., assignor.)

United States, Government of the. (See Babbitt, Herbert S., assignor.)

United States Gypsum Company. (See Donahue, John V., assignor.)

United States Gypsum Company. (See Ericson, Richard, assignor.)

U. S. Slicing Machine Company. (See van Berkel, Cornelius F. M., assignor.)

V. D. Limited. (See Dahl, Oscar, assignor.)

Van Berkel, Cornelis F. M., Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, LaPorte, Ind. Sharpener for slicing machines. 1,943,642; Jan. 16.

Van Dunker, Helen L., San Antonio, Tex. Lip shield. 1,943,751; Jan. 16.

Van Voorst, Gerrit A., Steen, Minn. Milk receptacle. 1,943,776; Jan. 16.

Varaud, André, Geneva, Switzerland. Self-retarding mechanical percussion fuse for projectiles. 1,943,706; Jan. 16.

Vennerholm, Gosta. (See McCarroll, R. H., and Vennerholm.)

Vicars, T. & T. Limited. (See Naylor, Joseph F., assignor.)

Vickers-Armstrongs Limited. (See Watson, John P., assignor.)

Victor Chemical Works. (See Knox, William H., jr., assignor.)

Vinall, Ray, Davenport, Iowa. Curtain stretcher and prop. 1,944,019; Jan. 16.

Visual Display, Inc. (See Wolkenhauer, Gustav, assignor.)

Vogel, Max Frankfort-on-the-Main, Germany. Envelope. 1,944,020; Jan. 16.

Von Bichowsky, Foord, Glendale, Calif. Producing finely divided hydrated calcium sulphate. 1,943,497; Jan. 16.

Von Eisenbarth, August, Bronxville, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,375; Jan. 16.

Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Pitcher or article of analogous nature. Des. 91,376; Jan. 16.

Von Ohlsen, Louis H., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. System and apparatus for electric regulation. 1,943,498; Jan. 16.

Von Ohlsen, Louis H., and F. W. Godsey, jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company. System and apparatus for regulation. 1,943,463; Jan. 16.

Von Ohlsen, Louis H., and F. W. Godsey, jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company. System and apparatus for regulation. 1,943,464; Jan. 16.

Von Platen, Baltzar C., Stockholm, Sweden. Commutation of electric machines. 1,943,904; Jan. 16.

Von Platen, Baltzar C., and G. A. Grubb, Stockholm, Sweden. Commutation of electric machines. 1,943,905; Jan. 16.

Vosper, William W., assignor to The Toledo Pipe Threading Machine Co., Toledo, Ohio. Power tool. 1,943,643; Jan. 16.

Vosper, William W., assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio. Tool carrier. 1,943,644; Jan. 16.

Waggman, William H., assignor, by mesne assignments, to The Oberphos Company, Baltimore, Md. Manufacturing nitrogenous fertiliser. 1,944,046; Jan. 16.

Wagner, Robert L., Chatham, N. J., assignor to Oxweld Acetylene Company. Welding torch. 1,944,047; Jan. 16.

Wahl Company, The. (See Garvey, Kenneth A., assignor.)

Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)

Walker, George E., Amherst, Va., A. E. Marshall, Scarsdale, N. Y., and H. E. Dunn, Crafton, Pa., assignors to Southern Mineral Products Corporation, New York, N. Y. Purifying phosphates. 1,944,048; Jan. 16.

Walker, Hubert, Scholes, England. Combing machine. 1,943,707; Jan. 16.

Walker, John C., Eldorado, Kans., assignor to Empire Oil & Refining Company, Bartlesville, Okla. Treatment of wet oil. 1,944,021; Jan. 16.

Wallace, Bert A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,943,402; Jan. 16.

Wallace, Orlen P., and R. F. Whybark, St. Louis, Mo. Frame corner construction. 1,943,777; Jan. 16.

Wallace Press, The. (See Wallace, W. F., and Grulee, assignors.)

Wallace & Tiernan Products, Inc. (See Baker, J. C., and Schmelkes, assignors.)

Wallace, Walter F., Winnetka, and L. K. Grulee, Evanston, assignors to The Wallace Press, Chicago, Ill. Offset printing method. 1,943,645; Jan. 16.

Walton, George W., Dallas, Tex. Counterweighted pitman. 1,943,906; Jan. 16.

Wardwell Braiding Machine Company. (See Bardsley, Willard W., assignor.)

Ware, Richard P., assignor to Package Improvement Company, Inc., Detroit, Mich. Container end constructions. 1,943,568; Jan. 16.

Ware, Robert R., assignor to Chicago Roller Skate Company, Chicago, Ill. Roller. 1,943,881; Jan. 16.

Warner, Frederick H., Ipswich, England. Float controlled valve. 1,943,569; Jan. 16.

Warren, Kenneth W., assignor to Bendix Aviation Corporation, South Bend, Ind. Safety filler plug. 1,943,351; Jan. 16.

Warren, Paul C., Lakeside, Mich. Refrigerator. 1,943,646; Jan. 16.

Warren Telechron Company. (See Holland, Edward S. J., assignor.)

Waters, Charles B. (See Steindler, Leslie L., assignor.)

Watervliet Tool Company. (See Kattrein, William J., assignor.)

Watry, Louis T., West Allis, Wis. Smoker's pipe. 1,943,907; Jan. 16.

Watson, John P., assignor to Vickers-Armstrongs Limited, Westminster, England. Apparatus for use in determining the course to be given to torpedoes. 1,943,403; Jan. 16.

Watson, Richard M., Detroit, Mich. Loose-leaf binder. 1,943,465; Jan. 16.

Weller, Millard K., Greenwood, Miss. Shaving cabinet. 1,944,049; Jan. 16.

Weiner, Charles, assignor to Chicago Printed String Co., Chicago, Ill. Package or similar article. Des. 91,377; Jan. 16.

Wels, Arthur R. (See Bigelow, G. E., and Wels.)

Weld, Herbert W., Chicago, Ill. Glass construction. 1,943,995; Jan. 16.

Weller, William W., Summit, N. J., assignor to Amalgamated Products Co. Inc. Cleaning pad holder and rewetter. 1,943,647; Jan. 16.

Werder, John F., Cleveland, Ohio, assignor of one-half to E. Rogers. Making manually operated valves. 1,943,708; Jan. 16.

Wessman, Edwin, Chicago, Ill. Automobile bed. 1,943,648; Jan. 16.

West, Constance L., and F. R. West, Highland Park, Mich. Sharp freezing structure. 1,943,466; Jan. 16.

West, Frank R. (See West, Constance L. and F. R.)

Western Union Telegraph Company, The. (See Collings, Frederick C., assignor.)

Western Union Telegraph Company, The. (See Long, James W., assignor.)

Westinghouse Air Brake Company, The. (See Dapron, Joseph M., assignor.)

Westinghouse Air Brake Company. (See Farmer, Clyde C., assignor.)

Westinghouse Air Brake Company. (See Fitch, Ellery R., assignor.)

Westinghouse Air Brake Company, The. (See Hewitt, Ellis E. assignor.)

Westinghouse Air Brake Company, The. (See Hewitt, F E., and Stewart, assignors.)

Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)

Westinghouse Air Brake Company, The. (See Winter, Harry J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Flanders, Warren B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)

Westinghouse Electric & Manufacturing Company. (See Potter, John A., assignor.)

Weston, Carl D., Glendale, Calif. Fountain pen check protector. 1,943,404; Jan. 16.

Wheeler, Harold A., Jackson Heights, N. Y., assignor to Hazeltine Corporation. Electric coupling circuits. 1,943,405; Jan. 16.

White, Charles H., assignor to Deere & Company, Moline, Ill. Tractor planter. 1,943,778; Jan. 16.

White, George H., Hartford, Conn., assignor to C. A. Macomic, Chicago, Ill. Pattern selecting mechanism. 1,943,354; Jan. 16.

White, Robert H., jr., Atlanta, and E. R. Gillon, East Point, assignor to Southern Wood Preserving Company, Atlanta, Ga. Pole peeling and shaping machine. 1,943,649; Jan. 16.

White, Wilbur, Chemical Company, The. (See Bridgeman, W. A., and Schade, assignors.)

Whittam, Thomas, Brockport, N. Y. Making malt beverages. 1,943,948; Jan. 16.

Whybark, Ralph F. (See Wallace, O. P., and Whybark.)

Whyte, Samuel, Redhill, Surrey, England. Manufacture of rolled steel products. 1,943,944; Jan. 16.

Wick, Francis M., Youngstown, Ohio. Shredding apparatus. 1,943,752; Jan. 16.

Wienecke, Bruno, Berlin, Germany. Manufacturing high emissive cathodes. 1,943,945; Jan. 16.

Wight, Sedgwick N., assignor to General Railway Signal Company, Rochester, N. Y. Train dispatching system for railroads. Re19,053; Jan. 16.

Wilbur, John. (See Eason, Harrison G., assignor.)

Wilke, Karl, and J. Stock, Frankfort-on-the-Main-Hochst, and F. Schubert, Frankfort-on-the-Main, Sindlingen, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Compound of the benzanthrone-pyrazolanthrone series and preparing it. 1,943,710; Jan. 16.

Wilkins, Charles L., assignor of fifty-one per cent. to C. M. Scholl, and nine per cent. to H. F. Bush, Denver, Colo. Tumbling barrel for washing machines. 1,943,709; Jan. 16.

Willans, Peter W. (See Round, H. J., and Willans.)

Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,378; Jan. 16.

Williams, Carl S., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Inc., Wilmington, Del. Accelerator for the vulcanization of rubber. 1,943,570; Jan. 16.

Williams, Harry J., assignor to The National Cash Register Company, Dayton, Ohio. Cash register cabinet. Des. 91,379; Jan. 16.

Williams, Selden T., Woodbury, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Sound amplifier. 1,943,499; Jan. 16.

Williams, Thomas H., Akron, Ohio, and C. S. Moomy, Carlisle, Pa., assignors to National Rubber Machinery Company, Akron, Ohio. Apparatus for making inflatable articles. 1,943,996; Jan. 16.

Williamson, James H., Little Falls, N. J. Propeller. 1,943,571; Jan. 16.

Willman, Philip E., Chicago, Ill. Kettle or similar article. Des. 91,380; Jan. 16.

Willmore, Knight N., A. P. Carroll, Fairfax, and C. O. Stucker, Ponca City, Okla. Thermostatic carburetor choke device. 1,943,935; Jan. 16.

Wilson, Henry S., and H. Lauten, New York, N. Y. Awning frame. 1,943,406; Jan. 16.

Wine, William E., Toledo, Ohio. Railway car. 1,943,572; Jan. 16.

Wingert, Paul, Lorain, Ohio. Ventilator. 1,943,573; Jan. 16.

Winkler, Alfred and M. Dunnebier, Neuwied, Germany. Apparatus for handling sheets and the like. 1,943,500; Jan. 16.

Winter, Harry J., London, England, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,943,574; Jan. 16.

Wolf Brothers. (See Moore, Edward G., assignor.)

Wolf, Elias, et al. (See Moore, Edward G., assignor.)

Wolf, Howard A., et al. (See Moore, Edward G., assignor.)

Wolf, Louis, et al. (See Moore, Edward G., assignor.)

Wolkenhauer, Gustav, assignor, by mesne assignments, to Visual Display, Inc., Chicago, Ill. Displaying substances. 1,944,050; Jan. 16.

Wolters, Carl F., Marietta, Ohio, assignor to Remington Rand Inc., Buffalo, N. Y. Filing cabinet. 1,943,997; Jan. 16.

Woodford, Watson H., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Manufacture of paper tubes. 1,943,501; Jan. 16.

Woods-Humphery, George E., Chelsea, London, and H. L. Hall, Streatham, London, England. Sparking plug for internal-combustion engines. 1,943,674; Jan. 16.

Woods, William J., Berkeley, Calif. Method and apparatus for refrigeration. 1,943,908; Jan. 16.

Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,943,502; Jan. 16.

Worthington Pump and Machinery Corporation. (See Klaiber, Frank L., assignor.)

Wurzbacher, Albert F. (See Connolly, G. C., and Wurzbacher.)

Wyodak Chemical Company, The, et al. (See Denning, Paul S., assignor.)

Yoder, Carl M., Lakewood, Ohio. Bending machine. 1,943,407; Jan. 16.

Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Key opening container. 1,943,355; Jan. 16.

Young, Paul W., Taft, Calif. Rotary engine. 1,943,882; Jan. 16.

Yunker, John O., Wauwatosa, Wis. Press for attaching soles to shoes. 1,943,356; Jan. 16.

Zaiger, Louis. (See Zaiger, Max and L.)

Zaiger, Max, Swampscott, and L. Zaiger, Lynn, Mass. Windshield wiper. 1,944,051; Jan. 16.

Zaschka, Englebert, Berlin-Neukölln, assignor of one-half to F. A. Unverdross, doing business as "Dimoba" Hagen-Westf.-Kabel Haus Busch, Germany. Portable power plant. 1,944,052; Jan. 16.

Zay, Anthony, Cleveland, Ohio. Cap. 1,943,779; Jan. 16.

Zeiss, Firm Carl. (See Bauersfeld, Walther, assignor.)

Zeiss, Firm Carl. (See Bauersfeld, W., and Hübschmann, assignors.)
Zeiss, Firm Carl (See Bauersfeld, W., and Köhler, assignors.)
Zeiss, Firm Carl. (See Hübschmann, Max, assignor.)
Zeiss, Firm Carl. (See Richter, Robert, assignor.)
Zerk, Oscar U., Chicago, Ill. Hosiery and making the same. 1,943,408; Jan. 16.
Zied, Samuel, Philadelphia, Pa. Cover for rumble seats of automobiles. 1,944,053; Jan. 16.
Zimmerman, Arthur G., Westmont, N. J., assignor to Radio Corporation of America. Sound-recording apparatus. 1,943,857; Jan. 16.
Zimmerman, Lester R., assignor to The John B. Canepa Company, Chicago, Ill. Carton or similar article. Des. 91,381; Jan. 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Absorber. E. B. Miller. 1,943,617; Jan. 16.
Accelerator for the vulcanization of rubber. C. S. Williams. 1,943,570; Jan. 16.
Acetone, Production of. K. Röka. 1,944,109; Jan. 16.
Acetylene lamp, Miner's safety. W. H. Darguc. 1,943,952; Jan. 16.
Acids, Production of organic. H. Franzen, H. Beller, and M. Luther. 1,943,427; Jan. 16.
Acids, Purification of organic. A. O. Jaeger and L. C. Daniels. 1,943,892; Jan. 16.
Acids, Recovery of tar. S. P. Miller. 1,944,131; Jan. 16.
Adhesive, Rubber. W. W. Dunfield. 1,943,423–4; Jan. 16.
Adhesive substance. F. O. Giesecke. 1,943,382; Jan. 16.
Advertising device. W. I. Block. 1,943,295; Jan. 16.
Air conditioning apparatus. H. B. Howry. 1,944,146; Jan. 16.
Air conditioning apparatus for passenger cars. J. H. Davis. 1,943,516; Jan. 16.
Air conditioning system. S. R. Lewis. 1,943,613; Jan. 16.
Aircraft. F. F. Clarke. 1,943,290; Jan. 16.
Aircraft, Apparatus for determining the course and speed of. R. Riberolles. 1,943,397; Jan. 16.
Airplane. H. E. Shaw. 1,943,774; Jan. 16.
Airplane landing light. S. W. Hyatt. 1,943,609; Jan. 16.
Airplane propeller blades, Making. J. Squires. 1,943,560; Jan. 16.
Air pressure gauge. O. C. and D. O. Druge. 1,943,469; Jan. 16.
Air valve. F. H. Tweed. 1,943,462; Jan. 16.
Alarm mechanism for clocks. D. S. Gourley. 1,943,598; Jan. 16.
Alkyl ethers of hydroxy aliphatic acids, Manufacture of. H. Dreyfus. 1,943,375; Jan. 16.
Alloy steel and hardening same, Hardened. F. B. Foley. 1,943,395; Jan. 16.
Alumina from alkali metal aluminate solutions, Separating. A. H. Cowles. 1,943,786; Jan. 16.
Ammonia from cook liquor, Recovery of. R. W. Richardson. 1,943,345; Jan. 16.
Amplifier, Band pass. R. A. Braden. 1,943,416; Jan. 16.
Amplifier coupling, Convertible band pass. R. A. Braden. 1,944,120; Jan. 16.
Amplifier, Resistance coupled. A. Nyman. 1,943,986; Jan. 16.
Antenna. L. M. Perkins. 1,943,394; Jan. 16.
Anthraquinone derivatives, Production of. P. Nawiasky, B. Stein, and A. Krause. 1,943,876; Jan. 16.
Apparatus for securing zero capacity-temperature coefficient. W. M. Bailey. 1,943,713; Jan. 16.
Armature construction for dynamo-electric machines. H. Grob. 1,943,432; Jan. 16.
Article handling device. O. F. Presbrey. 1,943,742; Jan. 16.
Articles, Apparatus for separating. C. D. Knowlton. 1,943,444; Jan. 16.
Arylamino-1-hydroxy-naphthalene-2-carboxylic acids. L. Laska and O. Haller. 1,943,872; Jan. 16.
Atomizer, Electrically heated. J. Robinson. 1,944,108; Jan. 16.
Automobile body. A. E. Northup. Des. Re19,052; Jan. 16.
Automobile signal. P. J. McManaman. 1,943,833; Jan. 16.
Awning frame. H. S. Wilson and H. Lauten. 1,943,406; Jan. 16.
Azo-dyestuffs. R. Fleischhauer. 1,943,727; Jan. 16.
Backfilling and the like, Apparatus for. G. Domina. 1,943,589; Jan. 16.
Bag. I. W. Litchfield. 1,944,089; Jan. 16.
Bag-making machine. G. W. Poppe. 1,943,549; Jan. 16.
Balancer. R. A. Norling. 1,943,453; Jan. 16.
Band or linkage, Flexible. C. H. Kestenman. 1,943,733; Jan. 16.
Band pass receiver, Convertible. R. A. Braden. 1,944,119; Jan. 16.
Band, Sweat. J. Saldich. 1,944,110; Jan. 16.
Barrel-handling machinery. A. Hoefleur. 1,943,530; Jan. 16.
Basket, Rectangular. L. M. Hile. 1,943,824–5; Jan. 16.
Battery: *See*—
Storage battery.
Bearing: *See*—
Tapered roller bearing.
Bearing cage, Ball. G. Ege. 1,943,955; Jan. 16.
Bearing construction. L. R. Helm. 1,943,864; Jan. 16.
Bearing construction. F. Hodgkinson. 1,943,891; Jan. 16.
Bearing construction, Roller. C. S. Brown. 1,943,418; Jan. 16.
Bearing retainer, Roller. J. P. Johnson. 1,943,804; Jan. 16.

Bed, Automobile. E. Wessman. 1,943,648; Jan. 16.
Beehive frame spacer. A. I. Root. 1,943,773; Jan. 16.
Belts, Method of and apparatus for making. C. A. Ball. 1,943,409; Jan. 16.
Bench dog. C. J. Symmonds. 1,943,352; Jan. 16.
Bending machine. C. M. Yoder. 1,943,407; Jan. 16.
Beverages, Making malt. T. Whittam. 1,943,943; Jan. 16.
Bimetal strips for bearing sleeves, Forming. B. Stockfleth and G. L. Sherwood. 1,943,351; Jan. 16.
Binder, Loose-leaf. R. M. Watson. 1,943,465; Jan. 16.
Blade for rotary pumps. B. M. Staley. 1,943,561; Jan. 16.
Board: *See*—
Garment supporting board.
Board and making same, Soundproof. J. H. Delaney. 1,943,757; Jan. 16.
Bolt, Anchor. C. F. Hetherington. 1,943,731; Jan. 16.
Bottle. C. S. McPhee. Des. 91,363; Jan. 16.
Bottle or similar article. J. S. Stein. Des. 91,372; Jan. 16.
Bottle shipping case. H. L. Kraeft. Des. 91,357; Jan. 16.
Box-making machine. F. R. Row. 1,943,840; Jan. 16.
Brace: *See*—
Heel brace.
Brake: *See*—
Fluid pressure brake. Multiple disk brake.
Hydraulic brake.
Brake. R. A. Goepfrich. 1,944,136; Jan. 16.
Brake. L. E. La Brie. 1,943,830; Jan. 16.
Brake. R. S. Sanford. 1,943,841–2; Jan. 16.
Brake and clutch. J. P. Rock. 1,943,930; Jan. 16.
Brake and door system for vehicles, Interconnected. P. R. Forman. 1,943,819; Jan. 16.
Brake apparatus. E. G. Carroll. 1,943,886; Jan. 16.
Brake control. C. A. Brewer. 1,943,296; Jan. 16.
Brake drum. S. M. Udale. 1,943,641; Jan. 16.
Brake drum closure. H. Perrot. 1,943,837; Jan. 16.
Brake drums, Casting. D. J. Campbell. 1,943,720; Jan. 16.
Brake fluid. C. W. Copeland. 1,943,813; Jan. 16.
Brake operator. R. J. Norton. 1,943,836; Jan. 16.
Brakes, Automatic adjusting device for. W. H. Delahaye. 1,943,816; Jan. 16.
Braking apparatus. R. Moore. 1,944,102; Jan. 16.
Braking system for land vehicle trains. L. Campbell, jr. 1,943,287; Jan. 16.
Braking system, Vehicle. A. Fortini. 1,944,144; Jan. 16.
Brick machine. E. S. Baer. 1,943,506; Jan. 16.
Brush. L. L. Hesson. 1,943,479; Jan. 16.
Brush, Fountain. G. W. Johnson. 1,943,893; Jan. 16.
Buffer, Door. E. Meier. 1,944,101; Jan. 16.
Bumper end construction. H. R. McMahon. Re19,050; Jan. 16.
Burner: *See*——
Gas burner. Oil burner.
Burner control, Safety gas. C. Schuck and G. Layer. 1,943,490; Jan. 16.
Burner for furnaces. E. Burg. 1,943,286; Jan. 16.
Bus. C. H. Frazer. 1,943,472; Jan. 16.
Button. S. Posner. Des. 91,367; Jan. 16.
By-product recovery system of a coal distillation plant, Operation of the. S. P. Miller. 1,944,130; Jan. 16.
Cabinet. R. T. Smith. Des. 91,373; Jan. 16.
Cabinet, Cash register. H. J. Williams. Des. 91,379; Jan. 16.
Cabinet, Filing. Z. Auerbach. 1,943,577; Jan. 16.
Cabinet, Filing. C. F. Wolters. 1,943,997; Jan. 16.
Cabinet, Shaving. M. K. Weiler. 1,944,049; Jan. 16.
Cable, Electric. W. A. Del Mar. 1,944,003–4; Jan. 16.
Cables and the like, Fairlead for. H. E. Heighton. 1,943,433; Jan. 16.
Cables, Testing. E. B. Paine, J. Tykocinski-Tykociner, and H. A. Brown. 1,943,392; Jan. 16.
Calcium phosphate and producing the same, Granular. W. H. Knox, jr. 1,943,919; Jan. 16.
Calcium sulphate, Producing finely divided hydrated. F. Von Bichowsky. 1,943,497; Jan. 16.
Calendar pad. R. M. Hall. 1,943,599; Jan. 16.
Calking device. C. A. Cottam. 1,943,723; Jan. 16.
Camera, Motion picture. J. D. Elms. 1,943,378; Jan. 16.
Cap. A. Zay. 1,943,779; Jan. 16.
Capacitor. W. M. Bailey. 1,943,712; Jan. 16.
Capacity condenser, Combination high and low. W. M. Bailey. 1,943,714; Jan. 16.
Car construction. G. R. Treptow. 1,943,640; Jan. 16.
Car, Railway. W. E. Wine. 1,943,572; Jan. 16.
Car, Refrigerator. J. Lundvall. 1,943,979; Jan. 16.
Car structure, Railway hopper. F. H. Bender. 1,943,294; Jan. 16.

Carbon dioxide converter, Solid. J. C. Goosmann. 1,943,820; Jan. 16.
Carbonating apparatus. J. E. Treanor. 1,943,903; Jan. 16.
Carburetor. E. F. Ciglia and L. F. Pelletier. 1,943,812; Jan. 16.
Carburetor choke device, Thermostatic. K. N. Willmore, A. P. Carroll, and C. O. Stucker. 1,943,935; Jan. 16.
Card holder, Illuminated. L. J. Buhr. 1,943,719; Jan. 16.
Cargo handling apparatus for aircraft and the like. M. Castro. 1,944,000; Jan. 16.
Carrier: *See*—
Tool carrier.
Carton or similar article. L. R. Zimmerman. Des. 91,381; Jan. 16.
Case: *See*—
Cigarette case.
Cash franking machine. W. Friedrichs. 1,943,473; Jan. 16.
Casing head. J. R. Mahan. 1,943,799; Jan. 16.
Casing head with blowout preventer. F. J. Hinderliter. Re19,047; Jan. 16.
Catalysts, Preroasting of hydrogen production. W. V. Hanks and G. H. Freyermuth. 1,943,821; Jan. 16.
Catalytic reactions, Conducting. M. J. Brown. 1,943,580; Jan. 16.
Cathode device. F. S. McCullough. 1,943,388; Jan. 16.
Cathodes, Manufacturing high emissive. B. Wienecke. 1,943,945; Jan. 16.
Cellular material and manufacturing same. A. S. Dwight. 1,943,858; Jan. 16.
Cellulose derivative composition. E. F. Izard. 1,943,972; Jan. 16.
Cellulose esters, Producing. H. L. Barthelemy. 1,943,507; Jan. 16.
Cellulose esters, Treatment of. G. H. Ellis. 1,943,377; Jan. 16.
Cellulose ether and making same. D. Traill and A. S. Levesley. 1,943,461; Jan. 16.
Cellulose structures, Preparing regenerated. W. Schwalbe and O. Schnecko. 1,943,546; Jan. 16.
Cement, Grinding Portland. H. J. Dunton. 1,943,817; Jan. 16.
Cementing machine. A. S. Johnson. 1,943,322; Jan. 16.
Ceramic material and making the same, Lightweight. F. B. Hobart. 1,944,007; Jan. 16.
Change speed gear. L. and H. Quevrain. 1,943,396; Jan. 16.
Changeover control, Automatic. J. F. Cory. 1,943,950; Jan. 16.
Charge forming device. F. E. Aseltine. 1,943,909; Jan. 16.
Check protector. Fountain pen. C. D. Weston. 1,943,404; Jan. 16.
Check writer. J. F. Koca and O. A. Hokanson. 1,943,828; Jan. 16.
Chemical compound. W. Brün. 1,943,513; Jan. 16.
Christmas-tree holder. H. G. Eason. 1,943,659; Jan. 16.
Cigarette case. F. J. Keefe. 1,943,678; Jan. 16.
Cigarette package. R. Blum. 1,943,810; Jan. 16.
Cigarette package. B. McPherson. 1,944,098; Jan. 16.
Cigarette package. S. C. Miller. 1,943,924; Jan. 16.
Cinder or dust collector. G. C. Cook. 1,943,297; Jan. 16
Circuit breaker system, Automatic reclosing. A. S. FitzGerald. 1,944,072; Jan. 16.
Circuit controller, Clock-operated. T. R. Arden. 1,944,055; Jan. 16.
Circuit controlling device. L. P. Hutt. 1,944,084; Jan. 16.
Circuit, Dynatron. P. O. Farnham. 1,943,471; Jan. 16.
Circuit, Tuned oscillatory. C. J. Franks. 1,943,790; Jan. 16.
Circuits, Electric coupling. H. A. Wheeler. 1,943,405; Jan. 16.
Circuits, Numeral and letter forming refrigerant. C. C. Andrews. 1,943,883; Jan. 16.
Circuits, Superheterodyne frequency changing. W. Van B. Roberts. 1,943,458; Jan. 16.
Circuits, Thermionic valve. H. J. Round and P. W. Willams. 1,943,459; Jan. 16.
Clamp: *See*—
Pole clamp.
Cleaner: *See*—
Dust mop or oil mop Spaceboard cleaner.
cleaner.
Cleaning device, Dry. H. D. Read and L. C. Neufeld. 1,943,552; Jan. 16.
Cleaning machine, Dry. L. E. Anderson. 1,943,594; Jan. 16.
Cleanout for stove pipes or elbows. G. Madro. 1,943,482; Jan. 16.
Clip: *See*—
Windshield wiper clip
Clip bagging machine. J. D. Thompson. 1,944,041; Jan. 16.
Clipping machine. D. T. Owen. 1,943,546; Jan. 16.
Cloth measuring machine. W. E. Aeschbach. 1,943,711; Jan. 16.
Clutch and bearing for aviation generators. L. A. Hyland. 1,943,321; Jan. 16.
Clutch control. S. N. Koutichkov and J. J. Drabin. 1,943,534; Jan. 16.
Coal, Low temperature distillation of. A. V. Abbott. 1,943,291; Jan. 16.
Coating compound. M. B. Parrish. 1,943,926; Jan. 16.
Cock, Steam and water gauge. L. H. Munn. 1,943,941; Jan. 16.
Collodion-emulsion dry plates, Making orthochromatic. T. and R. Freundorfer. 1,943,380; Jan. 16.
Comb, Bendable wave. N. Fulton. 1,943,728; Jan. 16.
Combination jack. A. O. Middlemiss. 1,943,737; Jan. 16.
Combing machine. H. Walker. 1,943,707; Jan. 16.
Combustion chamber for Diesel engines. H. T. Thomas. 1,943,495; Jan. 16.
Compact, Sewing. H. McDonough. 1,943,542; Jan. 16.
Compass. C. G. Larson. 1,943,921; Jan. 16.
Compass for orientation. A. Niedermann. 1,944,104; Jan. 16.
Compound of the benzanthrone-pyrazolanthrone series and preparing it. K. Wilke, J. Stock, and F. Schubert. 1,943,710; Jan. 16.
Concrete mixing apparatus. A. Knowles. 1,943,325; Jan. 16.
Condenser: *See*—
Capacity condenser.
Molded dielectric condenser.
Condenser system for mechanical refrigeration. W. Fourness. 1,943,759; Jan. 16.
Conductor, Insulated. J. A. Kennedy. 1,943,977; Jan. 16.
Conduit terminal, Fluid. E. H. Kocher. 1,943,326; Jan. 16.
Connecter: *See*—
Electrical connecter. Spindle connecter.
Connecter. I. Stidd. 1,944,141; Jan. 16.
Connecting and adjusting device, Combined. J. H. Flatley. 1,943,594; Jan. 16.
Connecting unit for shock absorbers and the like, Forming a. N. Skillman. 1,943,631; Jan. 16.
Connection device. J. D. Noyes. 1,943,602; Jan. 16.
Container: *See*—
Fruit container. Key opening container.
Key container.
Container. H. J. Gaisman. 1,944,075; Jan. 16.
Container. A. W. Langdon. 1,943,327; Jan. 16.
Container. D. J. McCrudden, jr. 1,943,923; Jan. 16.
Container end construction. R. P. Ware. 1,943,568; Jan. 16.
Control for film handling apparatus. W. D. Foster and F. D. Sweet. 1,944,030; Jan. 16.
Control mechanism. W. D. Foster. 1,944,026; Jan. 16.
Control mechanism for fuel pumps. H. Junkers. 1,943,974; Jan. 16.
Control mechanism for motor vehicles. J. E. Padgett. 1,943,694; Jan. 16.
Control system for power plants comprising electric motors and prime movers. H. J. Coates. 1,943,369; Jan. 16.
Controlling means for variable speed power transmission mechanisms. F. A. Hayes. 1,943,627; Jan. 16.
Conveyer. C. A Adams. 1,943,998; Jan. 16.
Cooler: *See*—
Milk cooler. Portable cooler.
Cooler and ice box, Combination. W. A. Haydel. 1,943,938; Jan. 16.
Cooler for liquids. A. H. Baer. 1,944,056; Jan. 16.
Cooling, Art and apparatus for. G. E. Hulse. 1,943,315; Jan. 16.
Cooling, Art and apparatus for. G. E. Hulse and J. D. Strobell. 1,943,970; Jan. 16.
Copper, Process and composition for hardening. C. E. Moyer. 1,943,738; Jan. 16.
Corn picker and attaching the same to a tractor. G. R. Binau. 1,943,284; Jan. 16.
Corrosion resistant article. F. M. Becket. 1,943,782; Jan. 16.
Cot, Folding. M. J. Byers. 1,944,064; Jan. 16.
Counter-current washing, Method and apparatus for. P. J. Harrington. 1,943,822; Jan. 16.
Coupling: *See*—
Amplifier coupling. Flexible coupling.
Coupling for vehicles. M. G. Cornet. 1,943,370; Jan. 16.
Cover for a box, carton, or the like. L. Tichnor. Des. 91,374; Jan. 16.
Cover for rumble seats of automobiles. S. Zied. 1,944,053; Jan. 16.
Cover for spare tires. G. A. Lyon. 1,943,922; Jan. 16.
Cowling ring for airplane engines. H. A. Hicks. 1,943,528; Jan. 16.
Crank case breather. R. L. Jones. 1,943,765; Jan. 16.
Crossing signal. D. W. Richards. 1,943,625; Jan. 16.
Crown molding. J. H. Esdorn. 1,944,070; Jan. 16.
Current motor control, Alternating. A. F. Lukens. 1,944,090; Jan. 16.
Curtain protector. P. O. Melaas. 1,943,768; Jan. 16.
Cushion fly wheel. J. F. Dankus. 1,943,517; Jan. 16.
Cut-out and safety device for hydraulic systems, Automatic. R. C. Lamond. 1,943,535; Jan. 16.
Cutter bars of mowing machines, Apparatus for grinding. A. Hirth. 1,943,529; Jan. 16.
Cutter for power-driven lawn mowers, Auxiliary. K. F. Jacobsen. 1,943,675; Jan. 16.
Decorative reflective article. F. L. Porter. 1,943,623; Jan. 16.
Dental preparation. R. Cross. 1,943,856; Jan. 16.
Designs, Apparatus for producing. H. V. Schieren. 1,944,111; Jan. 16.
Diaphragm. G. R. Eaton. 1,943,425; Jan. 16.
Die-casting machine. N. Lester. 1,943,680; Jan. 16.

Differential meter. E. P. Stewart and L. H. Frost. 1,943,993; Jan. 16.
Digester system. A. Christensen. 1,943,289; Jan. 16.
Dish, Soap. C. A. Mosgrove. Des. 91,364; Jan. 16.
Dishwashing machine. E. S. Stoddard. 1,943,636; Jan. 16.
Disinfectant, Seed. M. S. Kharasch. 1,943,540; Jan. 16.
Dispatch tube apparatus, Pneumatic. J. T. Needham. 1,943,451; Jan. 16.
Dispenser: *See*—
Refrigerator and beverage dispenser.
Dispensing apparatus. R. Jackson. 1,944,137; Jan. 16.
Dispensing apparatus. R. C. Shand. 1,943,843; Jan. 16.
Displaying substances. G. Wolkenbauer. 1,944,050; Jan. 16.
Doorlatch. K. Brainerd. 1,943,946; Jan. 16.
Door mechanism. G. W. Hegel. 1,944,082; Jan. 16.
Door mechanism, Lift and throwout. F. C. Heinen. 1,943,823; Jan. 16.
Door, Oven. C. L. Beverly. 1,944,061; Jan. 16.
Dough dividing and working machine. H. Schröder. 1,944,112; Jan. 16.
Draft regulator. W. F. Mortimer. 1,943,342; Jan. 16.
Draft rigging. B. W. Kadel. 1,943,676; Jan. 16.
Dress. J. L. Caston. Des. 91,382; Jan. 16.
Drier. A. O. Moe. 1,943,874; Jan. 16.
Drill. R. Giesey. 1,944,076; Jan. 16.
Drill. W. C. Rea. 1,943,879–80; Jan. 16.
Drill. P. N. Snell, jr. 1,943,699; Jan. 16.
Drilling apparatus. W. J. Newman. 1,943,835; Jan. 16.
Drying filter. C. W. Moore and C. W. Crumb. 1,943,618; Jan. 16.
Drying-frame. E. C. M. Eklund. 1,943,726; Jan. 16.
Dust Mop or oil mop cleaner. J. H. Marshall. 1,943,449; Jan. 16.
Dyeing and the like. D. A. W. Fairweather and J. Thomas. 1,943,787; Jan. 16.
Electric induction furnace. E. F. Northrup. 1,943,802; Jan. 16.
Electric machine, Totally inclosed dynamo. H. G. Reist. 1,944,107; Jan. 16.
Electric machines, Commutation of. B. C. von Platen. 1,943,904; Jan. 16.
Electric machines, Commutation of. B. C. von Platen and G. A. Grubb. 1,943,905; Jan. 16.
Electric pick-up for sound reproduction. L. H. Matthias. 1,943,873; Jan. 16.
Electric regulation, System and apparatus for. L. H. Von Ohlsen. 1,943,498; Jan. 16.
Electric supply system, Auxiliary. E. S. J. Holland. 1,944,083; Jan. 16.
Electric switch. F. Taubner. 1,943,493; Jan. 16.
Electric tumbler switch. R. Bain and N. Allday. 1,943,363; Jan. 16.
Electrical apparatus. J. W. Allen. 1,943,781; Jan. 16.
Electrical apparatus. W. J. King. 1,944,138; Jan. 16.
Electrical connecter. H. A. Douglas. 1,943,591; Jan. 16.
Electrical connecter. R. Edwards. 1,943,660; Jan. 16.
Electrical connecter. J. R. Kearney. 1,943,677; Jan. 16.
Electrical discharge device. C. Spaeth. 1,943,845; Jan. 16.
Electrical discharge device. C. Spaeth. 1,943,847–8; Jan. 16.
Electrical discharge device, Alternating current. C. Spaeth. 1,943,846; Jan. 16.
Electrical distribution, System of. K. Kettner. 1,944,087; Jan. 16.
Electrical systems, Determining the synchronism of. J. W. Simmons. 1,943,746; Jan. 16.
Electron tube. E. A. Giard and E. A. Fritz. 1,943,523; Jan. 16.
Electrotype plates, Backing. R. T. Haines. 1,943,526; Jan. 16.
Elevator. W. E. Hastings. 1,943,761; Jan. 16.
Energy forms, Analyzing and translating. C. Müller. 1,943,898–9; Jan. 16.
Engine: *See*—
Internal combustion engine. Rotary engine.
Engine. A. J. Meyer. 1,943,544; Jan. 16.
Engine. A. J. Meyer. 1,944,013; Jan. 16.
Engine especially for hydraulic transmissions, High pressure rotary. E. Sturm. 1,943,637; Jan. 16.
Engines, Mechanism for controlling the admission of air to internal combustion. K. J. E. Hesselman. 1,943,312; Jan. 16.
Envelope. M. Vogel. 1,944,020; Jan. 16.
Envelope and blank therefor. E. G. Moore. 1,943,688; Jan. 16.
Envelopes of the open end type, Method and machine for making. A. Norick. 1,943,985; Jan. 16.
Enzymes, Preparing. G. Sperti. 1,943,633; Jan. 16.
Eraser, Pencil. K. A. Garvey. 1,943,792; Jan. 16.
Explosive, Propellent. R. Burns and O. W. Stickland. 1,943,421; Jan. 16.
Eyecup. F. J. Sperisen. 1,943,349; Jan. 16.
Fabric: *See*—
Wire fabric.
Fabric, Manufacture of beaded. B. M. Dyckma. 1,943,658; Jan. 16.
Fabrics, Apparatus for treating. S. L. Chett. 1,944,001; Jan. 16.
Fastening for automobile hoods. R. M. G. Phillips. 1,943,927; Jan. 16.
Fastening-inserting machine. G. Goddu. 1,943,429; Jan. 16.
Ferromagnet system for converting electric oscillations into acoustic vibrations or conversely. A. A. Bartelink. 1,943,884; Jan. 16.
Fertilizer, Manufacturing nitrogenous. W. H. Waggman. 1,944,046; Jan. 16.
Fibrous material, Process and apparatus for. O. C. Schoenwerk. 1,943,489; Jan. 16.
Fifth wheel. J. R. Konetsky. 1,943,734; Jan. 16.
Filamentary material, Manufacture of. E. Hopkinson 1,943,436; Jan. 16.
Filamentary materials, Manufacture of. E. Hopkinson. 1,943,439; Jan. 16.
Filaments or threads by the dry spinning method, Production of artificial. W. I. Taylor. 1,943,353; Jan. 16.
Filter and flat construction. R. Guyer. 1,943,667; Jan. 16.
Film for photographic cameras, Roll. W. Naewiger. 1,944,132; Jan. 16.
Film handling and apparatus therefor. B. A. Proctor. 1,944,037; Jan. 16.
Film handling apparatus. W. D. Foster. 1,943,504–5; Jan. 16.
Film handling apparatus. W. D. Foster. 1,944,025; Jan. 16.
Film handling apparatus. W. D. Foster. 1,944,027–9; Jan. 16.
Film handling apparatus. H. G. Ponting and G. W. Ford. 1,944,032; Jan. 16.
Film handling apparatus. B. A. Proctor. 1,944,035; Jan. 16.
Film handling apparatus. B. A. Proctor. 1,944,036; Jan. 16.
Film handling apparatus and footage recording device therefor. F. D. Sweet. 1,944,038; Jan. 16.
Film, Reenforcing cinematograph. N. Pedersen. 1,945,989–90; Jan. 16.
Film shrinkage control. H. W. Menke. 1,943,687; Jan. 16.
Films to provide fade-in and fade-out effects, Treating motion picture. R. C. Mercer. 1,943,389; Jan. 16.
Filter: *See*—
Drying filter.
Fishing reel. H. F. Maynes. 1,943,981; Jan. 16.
Fittings in flexible doll heads, Apparatus for and method of mounting. S. Marcus. 1,943,736; Jan. 16.
Flash light. G. C. Fullmer. 1,943,760; Jan. 16.
Flexible coupling. O. H. Gallamore. 1,943,791; Jan. 16.
Flexible coupling. U. Quintavalle. 1,943,942; Jan. 16.
Float-controlled valve. F. H. Warner. 1,943,569; Jan. 16.
Fluid pressure brake. E. R. Fitch. 1,943,593; Jan. 16.
Fluid pressure brake. J. C. McCune. 1,943,615; Jan. 16.
Fluid pressure brake. H. J. Winter. 1,943,574; Jan. 16.
Flushing tank valve. J. Mello. 1,943,769; Jan. 16.
Flushing valve. F. G. Curtin. 1,943,951; Jan. 16.
Folding leg table. R. V. Stoner and E. A. Schlaak. 1,943,563; Jan. 16.
Foodstuff. C. Dreyfus. 1,943,374; Jan. 16.
Footwear, Waterproof. H. P. Manville. 1,943,448; Jan. 16.
Form puller. C. E. Rarick. 1,943,803; Jan. 16.
Frame: *See*—
Awning frame. Drying-frame.
Frame construction, Curtain. F. A. Holles. 1,943,763; Jan. 16.
Frame corner construction. O. P. Wallace and R. F. Whybark. 1,943,777; Jan. 16.
Frame for projectors, Film display. A. Hudson. 1,943,673; Jan. 16.
Freezing attachment, Ice cream. N. T. Skowlund. 1,944,114; Jan. 16.
Freezing structure, Sharp. C. L. and F. R. West. 1,943,466; Jan. 16.
Fruit container. E. Peters. 1,944,105; Jan. 16.
Fuel burning apparatus, Liquid. W. J. Smith. 1,943,632; Jan. 16.
Fuel control system. H. M. Corse. 1,944,068; Jan. 16.
Fuel injection device for internal combustion engines. G. A. Bell. 1,943,718; Jan. 16.
Fuel pump. E. A. Rockwell. 1,943,901; Jan. 16.
Furnace: *See*—
Electric induction furnace. Pulverized fuel furnace.
Furnace. R. S. Godard. 1,943,957; Jan. 16.
Furnace. T. G. Coghlan and E. A. Johnsen. 1,943,949; Jan. 16.
Furnace. L. R. Johnson. 1,943,537; Jan. 16.
Furnace construction. G. W. Davey. 1,943,756; Jan. 16.
Furnace or other apparatus, Tilting a. G. E. Taylor and L. E. Thompson. 1,943,494; Jan. 16.
Furnaces, Method and apparatus for operating. S. A Forter. 1,944,074; Jan. 16.
Fuse for projectiles, Self-retarding mechanical percussion. A. Varaud. 1,943,706; Jan. 16.
Game. E. Schultz. 1,943,697; Jan. 16.
Game apparatus. R. I. Mayorga. 1,943,685; Jan. 16.
Game board. E. R. Frase. Des. 91,353; Jan. 16.
Garment band. M. L. Heller. 1,943,720; Jan. 16.
Garment hanger. H. Sanford. 1,943,845; Jan. 16.
Garment supporting board. W. M. Goldwater. 1,944,078; Jan. 16.
Gas burner. E. H. Fisher. 1,943,859; Jan. 16.
Gas from liquefied gas, Method and device for producing compressed. C. W. P. Heylandt. Re19,054; Jan. 16.
Gas making device. C. R. Hemenway. 1,943,311; Jan. 16.
Gas scrubbing. H. R. Fife. 1,944,122; Jan. 16.

Gasket. B. W. Dennis. 1,944,135; Jan. 16.
Gate: *See*—
Motion picture gate.
Gate for film handling apparatus. J. P. Laug and W. D. Foster. 1,944,031; Jan. 16.
Gauge: *See*—
Air pressure gauge. Steam and water gauge.
Micrometer gauge.
Gauge damping device, Pressure. L. Durner. 1,943,954; Jan. 16.
Gear: *See*—
Change speed gear. Trawl gear.
Landing gear.
Gearing, Fluid-operated. H. A. Thompson. 1,944,018; Jan. 16.
Gearing for automatic vehicles, Transmission. J. W. Conners. 1,944,069; Jan. 16.
Gearing, Housed. R. E. and L. E. Ormsby. 1,943,693; Jan. 16.
Gel and making same, Synthetic inorganic. C. S. Howe. 1,943, 532; Jan. 16.
Gel composition, Inorganic. R. Cross. 1,943,584; Jan. 16.
Generator: *See*—
Steam generator.
Glass construction. H. W. Weld. 1,943,995; Jan. 16.
Glass, Two-part service. E. W. Holl. 1,943,866; Jan. 16.
Goggles. N. M. Baker. 1,943,910; Jan. 16.
Golf club seal and making the same. K. Smith. 1,943,399; Jan. 16.
Golf hole cup or rim. A. J. John. 1,943,610; Jan. 16.
Governor for rotating bodies, Inertia. E. P. Larsh and E. J. Peterhans. 1,944,011; Jan. 16.
Grease delivery device. G. H. Hartman. 1,943,604; Jan. 16.
Grease-dispensing apparatus. E. W. Davis. 1,943,515; Jan. 16.
Grease-distributing system. M. Reswick. 1,943,838; Jan. 16.
Grease pumping mechanism. G. H. Hartman. 1,943,603; Jan. 16.
Greasing apparatus. G. H. Hartman. 1,943,605; Jan. 16.
Groove for records, Eccentric control. H. F. Stose. 1,943,460; Jan. 16.
Guard, Football. R. R. Jones. 1,944,127; Jan. 16.
Hairpin. M. Baldwin. 1,943,936; Jan. 16.
Hand protector. C. Tweedie. 1,943,567; Jan. 16.
Handle: *See*—
Tool handle.
Handle for cooking utensils, Detachable. N. W. Cummins and J. A. Johnson. 1,943,585; Jan. 16.
Handle or similar article for an automotive vehicle, Outside door. T. L. Hibbard. Des. 91,356; Jan. 16.
Hanger: *See*—
Garment hanger. Spring hanger.
Heat exchange apparatus. B. M. Carter. 1,943,855; Jan. 16.
Heat exchange apparatus. C. Mortensen. 1,943,484; Jan. 16.
Heat exchange apparatus. J. A. Potter. 1,943,450; Jan. 16.
Heat exchange device. L. Ruthenburg, J. R. Replogle, and H. R. McPhail. 1,943,557; Jan. 16.
Heat insulating material and making the same. F. B. Hobart. 1,944,008; Jan. 16.
Heat regulator, Thermostatic. A. E. Doman, K. H. Bowen, and F. H. Gleason. 1,943,656; Jan. 16.
Heater. C. S. Franke. 1,943,596; Jan. 16.
Heater. D. W. Lake. 1,943,612; Jan. 16.
Heater economizer, Fluid. G. G. Tryon. 1,943,750; Jan. 16.
Heater of the injector type, Feed water. H. E. and J. N. Gresham. 1,944,080; Jan. 16.
Heating apparatus. H. L. Platt. 1,943,622; Jan. 16.
Heating apparatus and system, Automobile. L. L. Steindler. 1,943,350; Jan. 16.
Heel and making the same. L. J. Bazzoni. 1,943,412; Jan. 16.
Heel brace. H. J. Hagan. 1,943,476; Jan. 16.
Heel finishing machine. H. B. Greenough. 1,943,308; Jan. 16.
Helmet, Hair drying. C. E. Blomquist. 1,943,579; Jan. 16.
Hemmer. C. W. Mueller. 1,943,801; Jan. 16.
High tension switch, Two insulator. E. E. Anderson. 1,943,576; Jan. 16.
Hinge. C. G. Nachtrieb. 1,943,691; Jan. 16.
Holder: *See*—
Card holder. Wax holder.
Christmas tree holder. Welding rod holder.
Holder and fastener, Lamp. J. C. Tam. 1,944,040; Jan. 16.
Holder and inclosure for lamps. E. G. K. Anderson. 1,943,852; Jan. 16.
Holder and rewetter, Cleaning pad. W. W. Weller. 1,943,647; Jan. 16.
Holder for cinematograph films and the like. G. W. Ford. 1,944,023; Jan. 16.
Hopper, Apparatus for discharging an ash. F. B. Allen. 1,943,780; Jan. 16.
Horn, Pneumatic. E. E. Hewitt. 1,943,671; Jan. 16.
Hose insert. J. S. Pecker. 1,943,741; Jan. 16.
Hosiery and making the same. O. U. Zerk. 1,943,408; Jan. 16.
Hot packs and the like, Device for wringing. J. M. Cantwell. 1,943,755; Jan. 16.
House number, Interchangeable. G. J. Olson. 1,943,740; Jan. 16.
Humidifier. C. C. Emerson. 1,943,379; Jan. 16.
Humidifier having conduits with return bends. G. R. Magney. 1,943,897; Jan. 16.
Hydraulic brake. J. R. Hiedloff. 1,943,959; Jan. 16.
Hydraulic brake. A. E. and E. Le Cour. 1,943,679; Jan. 16.
Hydraulic system, Multiple. F. W. Davis. 1,944,002; Jan. 16.
Hydrocarbons, Apparatus for continuous distillation of heavy. E. A. Barbet. 1,944,057; Jan. 16.
Hydrocarbons, Refining liquid. G. C. Connolly and A. F. Wurzbacher. 1,943,583; Jan. 16.
Hydrogen-ion concentration of solutions, Method and apparatus for controlling the. H. S. Martin and T. A. Janney. 1,943,684; Jan. 16.
Impact-producing implement. L. S. Hanflig. 1,944,006; Jan. 16.
Incubator. E. T. Abendroth. 1,943,575; Jan. 16.
Indicating fuse plug. W. H. Ginder. 1,944,145; Jan. 16.
Inflatable articles, Apparatus for making. T. H. Williams and C. S. Moony. 1,943,996; Jan. 16.
Infusion device. C. T. Johnson. 1,943,386; Jan. 16.
Instrument for rapid examination of transparent microscopic preparations. W. Bauersfeld and M. Hübschmann. 1,943,508; Jan. 16.
Insulation and means embodying the same. W. S. Sprague. 1,943,701; Jan. 16.
Insulation, Testing. E. B. Paine, J. Tykocinski-Tykociner and H. A. Brown. 1,943,391; Jan. 16.
Insulator assembling machine. J. C. Robertson. 1,944,134; Jan. 16.
Internal-combustion engine. F. L. Klaiber. 1,943,870; Jan. 16.
Internal-combustion engine. L. M. Woolson. 1943,502; Jan. 16.
Internal-combustion engine, Rotary. C. G. Gustafson. 1,943,937; Jan. 16.
Intra-abdominal retractor. R. W. Homer. 1,944,009; Jan. 16.
Iron and steel, Cleaning. A. Nagelvoort. 1,943,875; Jan. 16.
Irrigation pipe joint. L. E. Thompson. 1,943,496; Jan. 16.
Jack: *See*—
Combination jack.
Jacks, Attachment for pump. E. M. Ramsey. 1,943,624; Jan. 16.
Jar-cover wrench. J. F. Johnson. 1,943,611; Jan. 16.
Jar or similar article. T. J. Piazzoli. Des. 91,366; Jan. 16.
Joint: *See*—
Irrigation pipe joint. Swivel coupling joint.
Metallic expansion joint. Universal joint.
Journal lubricator. H. B. Cunningham and J. W. Tucker. 1,943,298; Jan. 16.
Kettle and cover therefor, Combined coking. W. T. Christman. Des. 91,351; Jan. 16.
Kettle or similar article. P. E. Willman. Des. 91,380; Jan. 16.
Key container. L. Slotnick. 1,943,844; Jan. 16.
Key opening container. J. M. Young. 1,943,355; Jan. 16.
Key ring or similar article. L. E. Baer. Des. 91,344; Jan. 16.
Lace. S. H. Page. Des. 91,365; Jan. 16.
Ladder, Aerial trussed. R. F. Cowell. 1,943,724; Jan. 16.
Lamp: *See*—
Acetylene lamp.
Land wheel. J. D. Murray. 1,943,620; Jan. 16.
Landing gear. G. M. Bellanca. 1,943,783; Jan. 16.
Lens for optical purposes. W. Ewald. 1,943,521; Jan. 16.
Lever locking device. E. A. Stratman. 1,944,116; Jan. 16.
License plate. T. W. Posey. 1,943,843; Jan. 16.
Lid, Nestless can. G. H. Steward. 1,944,017; Jan. 16.
Light: *See*—
Airplane landing light. Flush light.
Light reflecting device. C. A Persons. 1,943,621; Jan. 16.
Lighter arrangement, Pyrophoric. L. V. Aronson. 1,943,505; Jan. 16.
Lighting unit. R. A. S. Paget. 1,943,877; Jan. 16.
Liquid-feed proportioning device. E. A. Bailey. 1,943,362; Jan. 16.
Liquids in receptacles, Apparatus for carbonating. F. J. Blane and S. B. Rowe. 1,943,753; Jan. 16.
Liquids, Method of and apparatus for heating and degasifying. G. H. Gibson and V. A. Roblin. 1,943,890; Jan. 16.
Loader, Truck. W. E. McCarron. 1,943,614; Jan. 16.
Loading and transporting equipment, Combined. D. A. Sargent. 1,943,398; Jan. 16.
Loading device especially for trucks. F. Brauner. 1,944,063; Jan. 16.
Lock. J. Holtzman. 1,943,826; Jan. 16.
Lock. E. S. Peake. 1,943,988; Jan. 16.
Lock for rolling shutters, End. E. F. Cross. 1,943,371; Jan. 16.
Locomotive auxiliary port controlling mechanism. H. J. Titus. 1,943,703; Jan. 16.
Loom, Needle. G. G. Emery, R. W. Knowlton, and H. C. Bennett. 1,943,662; Jan. 16.

Loom, Tuft pile fabric. J. A. Coyle. 1,944,121; Jan. 16.
Lubricator: *See*—
Journal lubricator.
Luminous dashes and dots on a dark ground, Apparatus for projecting. W. Bauersfeld. 1,943,511; Jan. 16.
Luminous tube sign. W. O. Prouty. 1,943,772; Jan. 16.
Machine for coating sheet material. C. O. Kilham. 1,943,442; Jan. 16.
Machine for making book matches. M. Paridon. 1,943,455; Jan. 16.
Machine for making packages with integral tearing strips. E. L. Smith and C. E. Melhorn. 1,943,559; Jan. 16.
Machine for operating on shoes. A. Bates and F. B. Keall. 1,943,411; Jan. 16.
Machine for sorting documents and the like provided with statistical or other determinative perforations. D. Macadie and C. F. Ratcliff. 1,943,940; Jan. 16.
Machine for trimming the covers of heels. L. J. Bazzoni. 1,943,413; Jan. 16.
Machine for use in the manufacture of shoes. C. F. Pym. 1,943,344; Jan. 16.
Machine for wrapping wires. A. O. Abbott, jr., and G. K. McNeill. 1,944,142; Jan. 16.
Magnesium, Production of metallic. F. Hansgirg. 1,943,601; Jan. 16.
Magnesium, Production of metallic. A. C. Jessup. 1,943,916; Jan. 16.
Magnesium, Production of metallic. M. N. Lacell. 1,943,920; Jan. 16.
Magnetometer. O. H. Truman. 1,943,850; Jan. 16.
Manifolding. W. G. Borchers. 1,944,118; Jan. 16.
Margins of sheet blanks, Apparatus for staining the. E. J. Molyneaux. 1,943,450; Jan. 16.
Margins of sheet blanks, Apparatus for staining the. M. Paridon. 1,943,454; Jan. 16.
Mask, Face steaming. H. Riesenberg. 1,943,992; Jan. 16.
Material, Apparatus for feeding. C. U. Bundick and B. A. Proctor. 1,944,022; Jan. 16.
Material, Apparatus for feeding. F. D. Sweet. 1,944,039; Jan. 16.
Materials, Method and apparatus for the intertreatment of liquid and solid. T. A. Mitchell. 1,943,330; Jan. 16.
Materials, Method and apparatus for testing. W. A. Mudge and C. G. Bieber. 1,943,619; Jan. 16.
Measuring and registering instrument. J. G. Paulin. 1,943,393; Jan. 16.
Medical gas producer employing a heated liquid. J. Noirot. 1,944,140; Jan. 16.
Mercaptans from hydrocarbons, Removing. L. Rosenstein. 1,943,744; Jan. 16.
Metal, Biplate. M. M. Austin. 1,943,853; Jan. 16.
Metal chlorides from ores, Producing. T. A. Mitchell. 1,943,341; Jan. 16.
Metal leaf package. W. O. Snelling. 1,943,747; Jan. 16.
Metal strip, Apparatus for uncoiling. H. H. Talbot. 1,943,748; Jan. 16.
Metal working press. F. J. Rode. 1,943,555; Jan. 16.
Metallic expansion joint. W. Heigh. 1,944,128; Jan. 16.
Metallic scrap mixtures, Reclaiming and reusing. R. H. McCarroll and G. Vennerholm. 1,943,541; Jan. 16.
Metals, Purifying light. H. N. Gilbert. 1,943,307; Jan. 16.
Meter: *See*—
Differential meter.
Micrometer gauge. E. C. Swanson. 1,943,638; Jan. 16.
Microscopic objects, Apparatus for illuminating. W. Bauersfeld. 1,943,509; Jan. 16.
Microscopic objects, Device for light-field and dark-field illumination of. W. Bauersfeld and A. Köhler. 1,943,510; Jan. 16.
Milk cooler. A. V. Phillips. 1,943,991; Jan. 16.
Milk receptacle. G. A. Van Voorst. 1,943,776; Jan. 16.
Mineral absorbents, Revivifying. G. R. Lewers. 1,943,976; Jan. 16.
Mining machine. W. T. McCullough. 1,943,832; Jan. 16.
Mixer for hot and cold water, Automatic. R. Trubert. 1,943,705; Jan. 16.
Mixing valve. V. D. Hennessey. 1,943,865; Jan. 16.
Moccasin. L. S. and G. E. Rice, and I. L. Johnson. 1,943,743; Jan. 16.
Moisture extraction apparatus. H. L. Gulson. 1,943,793; Jan. 16.
Mold: *See*—
Tire mold.
Mold for making edible bottles and filling the same. C. G. Hall. 1,943,384; Jan. 16.
Mold form structure. S. C. Awbrey. 1,943,361; Jan. 16.
Moldable composition and its product. H. L. Bender. 1,944,143; Jan. 16.
Molded dielectric condenser. W. M. Bailey. 1,943,715; Jan. 16.
Molding machine. G. H. Haserodt. 1,943,477; Jan. 16.
Motion picture gate. F. L. Brown. 1,943,366; Jan. 16.
Motor for bevel gear pivots for lower casings, Marine. H. L. Johnson. 1,943,323; Jan. 16.
Motor operated valve. C. H. Beckwith. 1,943,854; Jan. 16.
Mounting, Engine. B. A. Swennes. 1,943,849; Jan. 16.
Mounting for metal window frames, Screen. T. Johnson. 1,943,868; Jan. 16.
Mounting for motor vehicles, Independently sprung wheel. M. H. Carpenter and C. B. Kirkham. 1,943,721; Jan. 16.
Mounting for ranges or stoves, Service drawer. C. H. and R. F. Hoffstetter. 1,943,939; Jan. 16.
Mounting, Shaft. B. E. House. 1,943,827; Jan. 16.
Multiple disk brake. W. R. Harman. 1,943,795; Jan. 16.
Muslin to corrugated roofing, Applying. J. C. Lemmon. 1,943,681; Jan. 16.
Nut, Lock. W. R. Hewitt. 1,943,672; Jan. 16.
Object stage for projection apparatus. M. Hübschmann. 1,943,533; Jan. 16.
Oil and water separator and petroleum purifier. W. D. Champion. 1,943,367–8; Jan. 16.
Oil burner. R. W. Titmas. 1,944,043; Jan. 16.
Oil conversion. A. G. Peterkin, jr. 1,943,696; Jan. 16.
Oil pressure actuated switch. A. Lekner. 1,944,012; Jan. 16.
Oil, Rust-proofing. L. G. Benton, H. R. Tate, and E. R. Lewtas. 1,943,808; Jan. 16.
Oil, Treatment of wet. J. C. Walker. 1,944,021; Jan. 16.
Oiler and waxer, Floor. E. F. Hawley. 1,943,606; Jan. 16.
Oils and fats, Manufacture of sulphonated. R. Huttenlocher. 1,943,319; Jan. 16.
Oils, Method and apparatus for filtering hydrocarbon. W. C. Child and G. A. Beiswenger. 1,943,811; Jan. 16.
Opener, Package. K. Eisele. 1,943,956; Jan. 16.
Opener, Package. S. C. Kahn. 1,943,538; Jan. 16.
Opening and closing means for carton boxes. C. W. Hartmann. 1,943,796; Jan. 16.
Optical aiming device for machine guns. K. Jung. 1,943 387; Jan. 16.
Ores and minerals by flotation, Concentrating. W. A. Douglass. 1,943,758; Jan. 16.
Ores by means of ferric chloride, Chloridizing. T. A. Mitchell. 1,943,332; Jan. 16.
Ores, Chloridizing metallurgical. T. A. Mitchell. 1,943,333; Jan. 16.
Ores, Chloridizing metallurgical. T. A. Mitchell. 1,943,335; Jan. 16.
Ores, Chloridizing sulphide. T. A. Mitchell. 1,943,336; Jan. 16.
Ores to chloridize the same, Treating sulphide. T. A. Mitchell. 1,943 337; Jan. 16.
Ores, Treating. T. A. Mitchell. 1,943,331; Jan. 16.
Ores, Treating metallurgical. T. A. Mitchell. 1,943,334; Jan. 16.
Ores, Treating silver bearing. T. A. Mitchell. 1,943,339; Jan. 16.
Ores, Treating tin bearing. T. A. Mitchell. 1,943,338; Jan. 16.
Oscillator, High-frequency. H. Rothe and H. O. Roosenstein. 1,943,627; Jan. 16.
Oscillator system. J. B. Dow. 1,943,302; Jan. 16.
Oven charging machine, Coke. C. Still. 1,943,634; Jan. 16.
Oven control. A. P. Chester and D. H. Hill. 1,943,582; Jan. 16.
Oven for coal distillation, Chamber. C. Still. 1,943,562; Jan. 16.
Oven, Regenerative. J. Schaefer. 1,943,558; Jan. 16.
Oxidation products of acetylene, Production of. W. Heckel and P. Nashan. 1,943,385; Jan. 16.
Ozonator. J. R. Fischer and J. G. Sola. 1,943,426; Jan. 16.
Package or similar article. C. Weiner. Des. 91,377; Jan. 16.
Packages and other wrappings, Device for opening. H. Irmscher and G. L. Buckley. 1,943,732; Jan. 16.
Packaging and display means. G. J. Harris. 1,943,762; Jan. 16.
Packaging machine. E. Morey and R. H. Stimpson. 1,943,770; Jan. 16.
Packing, Butter. E. M. Davis. 1,943,587; Jan. 16.
Pad: *See*—
Calendar pad. Pressing pad.
Pail, Milk. C. O. Gysler. 1,943,383; Jan. 16.
Paints, Marketing and shipping. J. W. Thompson. 1,944,042; Jan. 16.
Pan and cover therefor, Combined cooking. W. T. Christman. Des. 91,352; Jan. 16.
Paper, Carbon. W. E. Clarke. 1,943,722; Jan. 16.
Paper machines, Smoothing roll in. R. W. Maggart. 1,944,063; Jan. 16.
Pattern selecting mechanism. G. H. White. 1,943,354; Jan. 16.
Pavement and laying same, Reenforced. C. M. MacChesney. 1,943,328; Jan. 16.
Pavements and the like, Raising sunken. J. and M. G. Flock. 1,943,914; Jan. 16.
Pedal locking device. J. M. Dapron. 1,943,586; Jan. 16.
Pen filler, Fountain. E. A. Rummler. 1,943 804; Jan. 16.
Pen, Self filling fountain. J. M. Burrough. 1,943,785; Jan. 16.
Perforating machine. F. B. Keall. 1,943,441; Jan. 16.
Petroleum emulsions, Breaking. M. De Groote. 1,943,815; Jan. 16.
Pharmaceutical preparation. R. S. Bley. 1,943,467; Jan. 16.
Phenol-aldehyde condensation products, Producing oil soluble. F. Seebash. 1,944,016; Jan. 16.
Phenols from ammonia liquors, Removal of. H. B. Cobb. 1,943,653; Jan. 16.
Phosphates, Purifying. G. E. Walker, A. E. Marshall and H. E. Dunn. 1,944,048; Jan. 16.
Photo-electric tube. T. H. Nakken. 1,943,984; Jan. 16.
Photogelatin printing. J. A. Fleischmann and W. W. and F. O. Sullivan. 1,944,123; Jan. 16.
Photographic apparatus. J. C. Arnold. 1,943,360; Jan. 16.

Photographic apparatus. W. D. Foster. 1,943,303; Jan. 16.
Photographic apparatus. W. D. Foster and E. L. Parmelee. 1,944,024; Jan. 16.
Photographic apparatus. B. A. Proctor. 1,944,033; Jan. 16.
Picture frame support. M. C. Gallucci. 1,943,666; Jan. 16.
Picture optical system and apparatus, Motion. G. G. Moreno. 1,943,689; Jan. 16.
Picture projection machine. N. L. Dauphaise. 1,943,299; Jan. 16.
Picture transmitting apparatus. C. Müller. 1,943,900; Jan. 16.
Pile-driving head. R. D. Budd. 1,943,420; Jan. 16.
Piling sections of general Z-shape, Making. W. W. Smith. 1,943,933; Jan. 16.
Pipe: *See*—
Smoker's pipe.
Pipestem liner. J. M. Denney. 1,943,518; Jan. 16.
Piston pin assembly. C. F. Betz. 1,943,364; Jan. 16.
Pitcher or article of analogous nature. W. von Nessen. Des. 91,376; Jan. 16.
Pitchometer, Direct-reading. B. O. Godfrey. 1,943,862; Jan. 16.
Pitman, Counterweighted. G. W. Walton. 1,943,906; Jan. 16.
Planographic printng base and preparing it. U. Ostwold. 1,943,486; Jan. 16.
Planter, Tractor. C. H. White. 1,943,778; Jan. 16.
Plate, Luncheon. W. A. Schurmann. 1,943,698; Jan. 16.
Platform for use with ladders, etc. L. M. Richard. 1,943,626; Jan. 16.
Plug: *See*—
Indicating fuse plug. Spark plug.
Safety filler plug.
Plug construction, Electric. A. E. Grant. 1,943,958; Jan 16.
Plug for internal-combustion engines, Sparking. G. E. Woods-Humphrey and H. L. Hall. 1,943,674; Jan. 16.
Pole clamp. J. J. MacDonald. 1,943,766; Jan. 16.
Pole peeling and shaping machine. R. H. White, jr. and E. R. Gillon. 1,943,649; Jan. 16.
Portable cooler. A. C. Durdin, 3d. 1,943,857; Jan. 16.
Power plant, Marine. W. B. Flanders. 1,943,860; Jan. 16.
Power plant, Portable. E. Zaschka. 1,944,052; Jan. 16.
Power tool. W. W. Vosper. 1,943,643; Jan. 16.
Power transmission, Rotary hydraulic. A. G. Rayburn. 1,943,929; Jan. 16.
Press: *See*—
Metal working press. Printing press.
Press-door counter-balance. F. S. Perry. 1,943,695; Jan. 16.
Press for attaching soles to shoes. J. O. Yunker. 1,943,356; Jan. 16.
Pressing pad. P. J. Hogan. 1,943,313; Jan. 16.
Pressure regulator for pressure presses. G. W. Elsey. 1,943,520; Jan. 16.
Printer system for quotation boards, Monitor. F. C. Collings. 1,943,654; Jan. 16.
Printing. J. J. O'Connell. 1,943,987; Jan. 16.
Printing method, Offset. W. F. Wallace. 1,943,645; Jan. 16.
Printing press. E. J. Smith. 1,943,902; Jan. 16.
Projectile, Illuminating. H. S. Babbitt. 1,943,292; Jan. 16.
Projecting machine, Repeat. B. A. Proctor. 1,944,034; Jan. 16.
Projection apparatus. J. Geier. 1,943,309; Jan. 16.
Projector, Continuous film motion cinematograph. O. C. Johnson. 1,944,010; Jan. 16.
Propeller. J. H. Williamson. 1,943,571; Jan. 16.
Propeller and rudder mounting, Outboard. D. G. Chandler and R. T. Svendsen. 1,943,288; Jan. 16.
Protector: *See*—
Check protector. Hand protector.
Curtain protector.
Protector for drinking vessels. C. R. Trampler, sr. 1,944,045; Jan. 16.
Puller: *See*—
Form puller.
Pulley, Expansion. J. R. Hertenstein. 1,943,435; Jan. 16.
Pulley, Hing pin. J. G. Meiners. 1,943,983; Jan. 16.
Pull-over. T. R. Atkins. 1,943,999; Jan. 16.
Pulverized fuel furnace. W. Kempf. 1,944,086; Jan. 16.
Pulverizer and separator. G. H. Fraser. 1,943,306; Jan. 16.
Pulverizing process and apparatus. W. B. Pedelty. Re19,049; Jan. 16.
Pump: *See*—
Fuel pump. Well pump.
Vacuum and compression pump.
Pump and motor mechanism. R. G. Fear. 1,943,664; Jan. 16.
Pump for artificial silk spinning machines, Gear-wheel. F. Sieper. 1,943,491; Jan. 16.
Quartz plate for half-shade polarimeters. R. Richter. 1,943,554; Jan. 16.
Racket with strings, Stringing tennis. S. Tauber and L. Fischmann. 1,943,400; Jan. 16.
Radio apparatus. W. P. Lear. 1,944,139; Jan. 16.
Radiocompass, Visual indicating. C. B. Mirick. 1,943,329; Jan. 16.
Radio frequency short wave receiver. P. Hermanspann. 1,943,730; Jan. 16.
Radioreceiver. P. O. Farnham and H. F. Argento. 1,943,789; Jan. 16.
Railway system, Suspended. P. J. Medor. 1,944,100; Jan. 16.
Range, Combination coal and gas. H. Lange. Des. 91,359; Jan. 16.
Raw materials for the manufacture of iron red dry colors, Production of. J. B. Castner and R. W. Powers. 1,943,948; Jan. 16.
Razor and blade, Safety. M. B. Behrman. 1,943,415; Jan. 16.
Razor, Safety. M. B. Behrman. 1,943,414; Jan. 15.
Receptacle: *See*—
Milk receptacle.
Reel: *See*—
Fishing reel. Wire reel.
Reeling machine. I. Kowada. 1,943,798; Jan. 16.
Reflecting unit for vehicles. J. T. Horni. 1,943,440; Jan. 16.
Reflectors, Producing sheet metal. R. W. Luce. 1,943,978; Jan. 16.
Refrigerant control for ice machines. N. M. Small. 1,944,115; Jan. 16.
Refrigerating system. L. G. Copeland. Re19,055; Jan. 16.
Refrigerating system. P. G. Hollinger. 1,943,608; Jan. 16.
Refrigerating system for vehicles and the like. J. D. Strobell and G. E. Hulse. 1,943,994; Jan. 16.
Refrigeration. G. E. Hulse. 1,943,816; Jan. 16.
Refrigeration. G. E. Hulse. 1,943,962; Jan. 16.
Refrigeration. G. E. Hulse. 1,943,967; Jan. 16.
Refrigeration apparatus. G. E. Hulse. 1,943,963; Jan. 16.
Refrigeration apparatus. E. B. Miller. 1,943,616; Jan. 16.
Refrigeration apparatus and method of refrigerating. G. E. Hulse. 1,943,971; Jan. 16.
Refrigeration, Method and apparatus for. W. J. Woods. 1,943,908; Jan. 16.
Refrigeration system. G. E. Hulse. 1,943,317; Jan. 16.
Refrigeration system. G. E. Hulse. 1,943,964; Jan. 16.
Refrigeration system. G. E. Hulse. 1,943,968; Jan. 16.
Refrigeration system and apparatus. G. E. Hulse. 1,943,318; Jan. 16.
Refrigeration system and apparatus. G. E. Hulse. 1,943,966; Jan. 16.
Refrigerator. P. C. Warren. 1,943,646; Jan. 16.
Refrigerator and beverage dispenser, Combination. M. Alex. 1,943,279; Jan. 16.
Refrigerator structure. R. John. 1,944,126; Jan. 16.
Regulation, System and apparatus for. F. W. Godsey, jr. 1,943,524; Jan. 16.
Regulation, System and apparatus for. L. H. Von Ohlsen and F. W. Godsey, jr. 1,943,463–4; Jan. 16.
Regulator: *See*—
Draft regulator. Voltage regulator.
Heat regulator. Window regulator.
Reservoir with fabric bag, Pressure. W. A. Del Mar. 1,944,005; Jan. 16.
Ring or similar article, Finger. M. Kronstadt. Des. 91,358; Jan. 16.
Rock, Treating phosphate. M. Larsson. Re19,045; Jan. 16.
Roller. R. R. Ware. 1,943,881; Jan. 16.
Rolling pin container. R. E. Boyce. Des. 91,347; Jan. 16.
Roof structure. H. J. Dinsbir. 1,943,588; Jan. 16.
Roofing granule, Colored. H. R. Gundlach. 1,943,525; Jan. 16.
Rotary engine. P. W. Young. 1,943,882; Jan. 16.
Roughing machine for shoe parts. G. Goddu. 1,943,430; Jan. 16.
Rubber, Vulcanizing. J. R. Ingram. 1,943,797; Jan. 16.
Rug. L. Biva. Des. 91,346; Jan. 16.
Safety filler plug. K. W. Warren. 1,943,851; Jan. 16.
Samples on cards and the like, Apparatus for mounting. A. Oser. 1,943,390; Jan. 16.
Sand washing apparatus. H. A. Friberg. 1,943,861; Jan. 16.
Sandal. H. Koomruian. 1,943,829; Jan. 16.
Sash operating mechanism. E. L. Ackerman. 1,943,359; Jan. 16.
Saw swage. D. E. Gommel. 1,943,863; Jan. 16.
Scaffolding, Collapsible. C. E. Landberg. 1,943,871; Jan. 16.
Scale, Health. A. Bousfield. 1,943,651; Jan. 16.
Scalp treating device. R. B. Lutz. 1,944 091; Jan. 16.
Screen: *See*—
Ventilator screen.
Screw cap for cans, Captive. J. M. Hothersall. 1,943,314; Jan. 16.
Screw propeller, Marine. E. V. Telfer. 1,943,934; Jan. 16.
Seat: *See*—
Spring seat.
Seal for centrifugal pumps, Pressure reducing. G. E. Bigelow and A. R. Wels. 1,943,578; Jan. 16.
Sealer and tightener, Fruit jar. W. Fabrick. 1,943,470; Jan. 16.
Seam for sewed articles and making same. A. H. De Voe. 1,943,300; Jan. 16.
Seat control mechanism. A. T. Potter. 1,943,550; Jan. 16.
Secretary. P. Bellavia. 1,943,282; Jan. 16.

Seismic waves, Creating artificial. O. E. Dudley and C. Lucid. 1,943,725; Jan. 16.
Serving machine. W. W. Bardsley. 1,943,716; Jan. 16.
Sewer trap. R. T. Morrison and R. J. Croft. 1,943,690; Jan. 16.
Sewing machine. A. H. De Voe. 1,943,301; Jan. 16.
Sewing machines, Looper-thread controlling mechanism for. P. A. Herr. 1,943,669; Jan. 16.
Shade, Lamp. R. C. Pierce. 1,943,928; Jan. 16.
Shade slat, Window. C. E. Kopfstein. 1 943,896; Jan. 16.
Sharpener for slicing machines. C. F. M. van Berkel. 1,943,642; Jan. 16.
Sharpener, Razor blade. W. O. Prouty. Des. 91,368; Jan. 16.
Shears, Grass. F. G. Heumann. 1,943,960; Jan. 16.
Sheet material, Coating. C. O. Killam. 1,943,443; Jan. 16.
Sheets and the like, Apparatus for handling. A. Winkler and M. Dunnebier. 1,943,500; Jan. 16.
Shield, Lip. H. L. Van Dunker. 1,943,751; Jan. 16.
Shingle, Lock corner. J. V. Donahue. 1,943,953; Jan. 16.
Shingle shake, Processing. E. E. Gilmer. 1,943,597; Jan. 16.
Shirt. S. D. Blue. 1,943,885; Jan. 16.
Shock absorber. R. I. Bates. 1,943,911; Jan. 16.
Shoe. C. H. Caldwell. Des. 91,348–9; Jan. 16.
Shoe-finishing tool. W. A. Reed. 1,943,457; Jan. 16.
Shoe machine. P. Psorakes and G. Hallien. 1,944,015; Jan. 16.
Shoe tree. D. S. Drury. 1,943,657; Jan. 16.
Shredding apparatus. F. M. Wick. 1,943,752; Jan. 16.
Shuttle conveyer. M. A. Kendall. 1,943,869; Jan. 16.
Sign: *See*—
Luminous tube sign.
Sign. R. E. Barclay and N. Berggren. 1,943,281; Jan. 16.
Sign. H. G. Hamnar. Des. 91,355; Jan. 16.
Signal: *See*—
Automobile signal. Crossing signal.
Signal for boilers. A. J. Meneghetti. 1,943,834; Jan. 16.
Signal repeater. J. W. Long. 1,943,683; Jan. 16.
Signature writing machine. H. R. Hedman. 1,943,607; Jan. 16.
Size for fiber products, Water repellent. E. C. Lathrop and F. A. Irvine. 1,943,975; Jan. 16.
Smoker's pipe. L. T. Watry. 1,943,907; Jan. 16.
Snap terminal. H. A. Douglas. 1,943,590; Jan. 16.
Soap-oil compositions, Manufacture of. A. E. Becker and R. G. Sloane. 1,943,806; Jan. 16.
Solenoid shut-off valve. F. Shenton. 1,944,113; Jan. 16.
Sound amplifier. S. T. Williams. 1,943,499; Jan. 16.
Sound photographically, Recording. F. H. Owens. 1,943,925; Jan. 16.
Sound-recording apparatus. A. G. Zimmerman. 1,943,357; Jan. 16.
Sound reproduction. A. M. Nicholson. Re19,051; Jan. 16.
Sound, System for recording. O. A. Ross. 1,943,556; Jan. 16.
Spaceband cleaner. H. B. Mooney. 1,944,014; Jan. 16
Spacer for joints in wall construction. H. A. Osborne. 1,943,485; Jan. 16.
Spark plug. L. J. Jones. 1,943,481; Jan. 16.
Spark plug. E. B. Nowosielski. 1,943,739; Jan. 16.
Spindle connecter. A. W. Mall. 1,943,980; Jan. 16.
Spinner, Trolling. B. D. Bell. 1,943,283; Jan. 16.
Sponge or the like, Bath. C. R. C. Borden. 1,943,365; Jan. 16.
Spoon support means for containers. A. G. Thatcher. 1,943,639; Jan. 16.
Spout for containers, Pouring. T. E. Barnes and W. F. Cobb. 1,944,058; Jan. 16.
Sprayer. C. D. Cummings. 1,943,655; Jan. 16.
Spring hanger. W. A. Tryon. 1,943,566; Jan. 16.
Spring nest, Snubbed. T. H. Symington. 1,943,492; Jan. 16.
Spring seat. E. E. Hewitt. 1,943,670; Jan. 16.
Sprinkler, Automatic. W. K. Hodgman, jr. 1,943,480; Jan. 16.
Stairway, Moving. D. L. Lindquist, A. E. Handy, and S. G. Margles. 1,943,682; Jan. 16.
Stapling machine. V. H. Ellacot. 1,943,661; Jan. 16.
Steam generator. K. Baumann. 1,944,059; Jan. 16.
Steam generator. H. J. Kerr. 1,943,539; Jan. 16.
Steel for nitriding. J. K. Smith. 1,943,348; Jan. 16.
Steel products, Manufacture of rolled. S. Whyte. 1,943,944; Jan. 16.
Steel, Spring. J. K. Smith. 1,943,347; Jan. 16.
Steering lock wheel. G. Töpfer. 1,943,704; Jan. 16.
Steering wheel. H. D. Geyer. 1,943,915; Jan. 16.
Steering wheel. C. N. Mitchell. 1,943,545; Jan. 16.
Stepladder. H. L. Mearkle. 1,944,099; Jan. 16.
Stoker, Coal burning. T. H. Banfield. Des. 91,345; Jan. 16.
Stoker for pulverized fuel. H. N. Dilling. 1,943,376; Jan. 16.
Stop, Hydraulic plunger. N. H. Ricker. 1,943,553; Jan. 16.
Storage battery. R. N. Chamberlain. 1,944,066; Jan. 16.
Storage battery, Low voltage. R. N. Chamberlain. 1,944,065; Jan. 16.
Strainer, Air. C. C. Farmer. 1,943,592; Jan. 16.
Stretcher and prop, Curtain. R. Vinall. 1,944,019; Jan. 16.
Stretching machine. R. L. Griffin and J. T. O'Neil. 1,943,794; Jan. 16.
Structure. M. K. McCosh. 1,943,982; Jan. 16.
Strut for aeroplanes, Shock absorbing. R. E. Dowd. 1,943,887; Jan. 16.
Superheterodyne receiver. W. S. Barden. 1,944,117; Jan. 16.
Superheterodyne receiver, Multirange. P. O. Farnham. 1,943,788; Jan. 16.
Support: *See*—
Picture frame support.
Support for motor trucks and the like, Rear view mirror. H. G. Hanson. 1,944,081; Jan. 16.
Supporting means for electric conductors and cables. H. M. Bollinger. 1,943,912; Jan. 16.
Surface treatment of metal. H. H. Holloway. 1,943,764; Jan. 16.
Surgical instrument. W. J. McFadden. 1,943,543; Jan. 16.
Swift. M. W. Becker. 1,943,512; Jan. 16.
Switch: *See*—
Electric switch. Oil pressure actuated switch.
Electric tumbler switch.
High tension switch. Thermostatic switch.
Switch. M. H. Rhodes and J. Fanzol. 1,943,839; Jan. 16.
Switch having raising and lowering mechanism therefor, Cell-type. F. H. Macneil. 1,944,092; Jan. 16.
Switch mechanism, Time. R. Pudelko. 1,943,878; Jan. 16.
Swivel coupling joint. L. Goodman. 1,944,124; Jan. 16.
Table: *See*—
Folding leg table.
Table. H. A. Arnold. 1,943,280; Jan. 16.
Take-up device for stranded cables. P. Bischof. 1,943,809; Jan. 16.
Tanks, Attachment for aquarium. G. W. Bringman. 1,943,417; Jan. 16.
Tapered roller bearing. C. S. Brown. 1,943,419; Jan. 16.
Tar, etc., Distillation of. S. P. Miller. 1,944,129; Jan. 16.
Teakettle. W. T. Christman. Des. 91,350; Jan. 16.
Telegraph stations, System for selective calling of. R. K. Gurley. 1,943,475; Jan. 16.
Telephone system. B. A. Wallace. 1,943,402; Jan. 16.
Television apparatus. G. S. Pfeiffer. 1,943,395; Jan. 16.
Temperature control. G. E. Hulse. 1,943,961; Jan. 16.
Temperature-controlling apparatus. G. E. Hulse. 1,943,965; Jan. 16.
Temperature of hot water for tapping purposes, Controlling the. E. T. Linderoth. 1,944,088; Jan. 16.
Temperature or pressure controller, Automatic. A. J. Mansure. 1,943,831; Jan. 16.
Temperature-regulator system and apparatus. G. E. Hulse. 1,943,969; Jan. 16.
Textile fabric or similar article. P. Lesser. Des. 91,360; Jan. 16.
Textile fabric or similar article. J. B. Little. Des. 91,361; Jan. 16.
Textile fabric or similar article. P. Reiman. 91,369–71; Jan. 16.
Textile fabric or similar article. A. Von Eisenbarth. Des. 91,375; Jan. 16.
Textile fabric or similar article. W. Willhelm. Des. 91,378; Jan. 16.
Thermostatic switch. G. R. Townsend. 1,944,044; Jan. 16.
Thread, Making rubber. J. R. Gammeter. 1,943,381; Jan. 16.
Thread, Manufacture of rubber. E. Hopkinson. 1,943,437–8; Jan. 16.
Tile board and manufacturing same. R. Ericson. 1,943,663; Jan. 16.
Tire mold. G. W. Bungay. 1,943,947; Jan. 16.
Tire spreader, Automatic. C. E. Branick. 1,943,784; Jan. 16.
Toilet apparatus. M. G. Gold and D. A. Moritz. 1,944,077; Jan. 16.
Tool: *See*—
Power tool. Shoe finishing tool.
Tool carrier. W. W. Vosper. 1,943,644; Jan. 16.
Tool for gas-engine-valve seats, Glaze-breaking. W. J. Kattrein. 1,943,895; Jan. 16.
Tool guide for dentists' contra-angles. C. E. Hartman. 1,943,668; Jan. 16.
Tool handle. J. S. D. Bellerive. 1,943,807; Jan. 16.
Toothbrush, Fountain. C. R. Collins. 1,944,067; Jan. 16.
Torch, Welding. R. L. Wagner. 1,944,047; Jan. 16.
Torpedo and making the same, Track. H. W. Kelly. 1,944,085; Jan. 16.
Torpedoes, Apparatus for use in determining the course to be given to. J. P. Watson. 1,943,403; Jan. 16.
Torque adjuster, Automatic. O. F. Kendler. 1,943,324; Jan. 16.
Tower, Cableway. A. H. Ackerman. 1,944,054; Jan. 16.
Toy boat. V. and M. L. Goldberg. 1,943,474; Jan. 16.
Toy boat. R. H. Schlegelmilch. 1,943,488; Jan. 16.
Toy vehicle. W. A. Gruenberg. Des. 91,354; Jan. 16.
Traction device for vehicle tires and manufacture. E. F. King. 1,943,918; Jan. 16.
Train dispatching system for railroads. W. D. Hailes. Re19,046; Jan. 16.
Train dispatching system for railroads. S. N. Wight. Re19,053; Jan. 16.
Transferring of individual articles such as biscuits. J. F. Naylor. 1,944,103; Jan. 16.
Transmission, Automatic change speed. O. H. Banker. 1,943,293; Jan. 16.

Transmission level control in telegraph signaling systems. J. Herman. 1,943,478; Jan. 16.
Transmission, Multiplex. E. Schwarzkopf. 1,943,630; Jan. 16.
Trap: *See*—
Sewer trap.
Trawl gear, Free ground-rope. O. Dahl. 1,943,372; Jan. 16.
Tree, Apple. W. Uecker. Pl. Pt. No. 85; Jan. 16.
Truck, Coal charging. C. Still. 1,943,635; Jan. 16.
Tube: *See*—
Electron tube. Photo-electric tube.
Tube coupling. F. A. Barnes. 1,943,717; Jan. 16.
Tubes and pipes, Apparatus for making butt joined. H. Mayweg. 1,944,096; Jan. 16.
Tubes and pipes, Apparatus for making butt welded. H. Mayweg. 1,944,095; Jan. 16.
Tubes and pipes, Making. H. Mayweg. 1,944,094; Jan. 16.
Tubes, Bending. L. W. Snell. 1,943,700; Jan. 16.
Tubes, Manufacture of paper. W. H. Woodford. 1,943,501; Jan. 16.
Tubular articles, Forming. L. W. Fogg and G. W. Lentz. 1,944,073; Jan. 16.
Typewriters, Motor return mechanism for. F. P. Gorin. 1,943,431; Jan. 16.
Typewriting and computing machine, Combined. H. L. Pitman. 1,943,548; Jan. 16.
Typewriting machine. C. Gabrielson. 1,943,428; Jan. 16.
Universal joint. C. D. Cutting. 1,943,814; Jan. 16.
Upper-roughing machine. W. C. Card, jr. 1,943,422; Jan. 16.
Utensil, Cooking. F. Jamias. 1,943,973; Jan. 16.
Vacuum and compression pump. E. F. McCarthy. 1,943,767; Jan. 16.
Values from a sulphide ore, Recovering. T. A. Mitchell. 1,943,340; Jan. 16.
Valve: *See*—
Air valve. Mixing valve.
Float controlled valve. Motor operated valve.
Flushing tank valve. Solenoid shut-off valve.
Flushing valve.
Valve. J. C. Barrie. 1,943,805; Jan. 16.
Valve. J. A. Thomas. 1,943,401; Jan. 16.
Valve control apparatus, Standing. H. W. Fletcher. 1,943,522; Jan. 16.
Valve converting apparatus and operating the same, Electric. B. D. Bedford. 1,944,060; Jan. 16.
Valve mechanism for cutting off the supply of liquid to reservoirs, casks, and other containers. J. Muller. 1,943,536; Jan. 16.
Valve for bathtubs and the like, Drain. C. F. Schultis. 1,943,628; Jan. 16.
Valves, Making manually operated. J. F. Werder. 1,943,708; Jan. 16.
Vapors or gases, Detecting, indicating and recording the presence of inflammable. H. T. Ringrose. Re19,048; Jan. 16.
Vase, Lawn. W. F. Mahoney. Des. 91,362; Jan. 16.
Vat for creamery use, Steam. E. H. Harrison. 1,943,602; Jan. 16.
Vegetable cleansing and blanching apparatus. H. P. Taylor. 1,943,775; Jan. 16.
Vehicle body construction. C. A. Butler. 1,943,581; Jan. 16.
Vehicle, Motor. C. R. Paton. 1,943,547; Jan. 16.
Vehicle, Motor. W. H. Radford. 1,943,551; Jan. 16.
Vehicles, Front end construction for motor. L. C. Freeman. 1,943,665; Jan. 16.
Vehicles, Prevention of skidding of. W. Josky. 1,943,917; Jan. 16.
Vending machine. M. Takeshita. 1,943,702; Jan. 16.
Ventilator. P. Wingert. 1,943,573; Jan. 16.
Ventilator screen. F. L. Ricker. 1,944,133; Jan. 16.
Voltage regulator. L. A. Hyland. 1,943,320; Jan. 16.
Wall and erecting it, Sectional. G. D. Morrison. 1,943,800; Jan. 16.
Wall construction. F. M. Boyland. 1,943,285; Jan. 16.
Walls, Construction of insulated. R. R. Graves. 1,944,079; Jan. 16.
Walls, Sealing building. O. V. McCrew. 1,943,686; Jan. 16.
Ware transferring apparatus. W. J. Miller. 1,943,483; Jan. 16.
Washing composition. P. S. Denning. 1,943,519; Jan. 16.
Washing machines, Tumbling barrel for. C. L. Wilkins. 1,943,709; Jan. 16.
Water bed. C. A. Ewald. 1,943,888; Jan. 16.
Water, Chlorinating. E. D. Ruth. 1,943,487; Jan. 16.
Water heating system, Direct-indirect. H. Del Mar. 1,943,373; Jan. 16.
Water, Sterilizing. J. C. Baker and F. C. Schmelkes. 1,943,650; Jan. 16.
Water transport for automobiles and the like. G. H. Sturgell. 1,943,564; Jan. 16.
Waving, Permanent. V. J. Gentile. 1,943,889; Jan. 16.
Wax emulsion coating and coating process. W. A. Bridgeman and J. A. Schade. 1,943,468; Jan. 16.
Wax holder. H. E. Trent. 1,943,749; Jan. 16.
Wedge grip for testing machines. H. J. Ruch. 1,943,931; Jan. 16.
Weighing device for balance. H. A. L. Essmann. 1,944,071; Jan. 16.
Welding. H. Mayweg. 1,944,097; Jan. 16.
Welding and cutting apparatus. J. M. Halbing. 1,944,125; Jan. 16.
Welding electrode. J. J. Paugh. 1,943,771; Jan. 16.
Welding machine. B. F. Hamilton. 1,943,600; Jan. 16.
Welding, Method and product of electric. E. J. W. Ragsdale. 1,944,106; Jan. 16.
Welding rod and means therefor, Flux-coated. W. R. Hume. 1,943,867; Jan. 16.
Welding rod holder. J. Buttaci and J. J. Goers. 1,943,754; Jan. 16.
Well pump. A. Hollander. 1,943,531; Jan. 16.
Welting fillets and strips, Making. W. G. Barbour. 1,943,410; Jan. 16.
Wheel: *See*—
Cushion fly wheel. Steeringlock wheel.
Fifth wheel. Steering wheel.
Land wheel.
Wheel for trailers, Fifth. B. F. Linton. 1,943,735; Jan. 16.
Wheels, Apparatus for molding cast. R. C. Hempstead and J. W. Marshall. 1,943,434; Jan. 16.
Window. W. T. Simpson and J. B. Bentley. 1,943,932; Jan. 16.
Window regulator. E. L. Ackerman. 1,943,358; Jan. 16.
Window, Show. H. M. Schwartz. 1,943,629; Jan. 16.
Window adapter. L. H. Thoen. 1,943,565; Jan. 16.
Windshield wiper clip. V. H. Christen. 1,943,652; Jan. 16.
Wiper, Windshield. M. and L. Zaiger. 1,944,051; Jan. 16.
Wire, Apparatus for coating. C. B. Fantone and R. M. Jameson. 1,943,818; Jan. 16.
Wire connecter means. W. C. Burnham. 1,943,514; Jan. 16.
Wire fabric, Chain link. A. A. G. Land. 1,943,447; Jan. 16.
Wire fabric, Resilient tensioning. A. A. G. Land. 1,943,445; Jan. 16.
Wire fabric, Transverse expanding. A. A. G. Land. 1,943,446; Jan. 16.
Wire reel. J. H. Cohen. 1,943,913; Jan. 16.
Wire to clothespins, Mechanism for applying reenforcing. J. R. Nolan. 1,943,452; Jan. 16.
Wiring system for electric ovens. R. S. Heise. 1,943,310; Jan. 16.
Wrench: *See*—
Jar cover wrench.
Wringer, Folding clothes. J. H. Adams. 1,943,503; Jan. 16.
X-ray apparatus for crystallographic examination and like purposes. A. Bouwers. 1,944,062; Jan. 16.

CLASSIFICATION OF PATENTS

ISSUED JANUARY 16, 1934

NOTE.—First number=class, second number=subclass, third number=patent number

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	118:	1,943,648	32—	10:	1,943,668			1,944,056			1,944,024	110—	28:	1,943,286	141—	7:	1,943,602
	348:	1,943,888	33—	157:	1,943,921	64—	8:	1,943,435			1,944,025			1,944,086		9:	1,943,636
6—	2:	1,943,773		165:	1,943,638		30:	1,943,980			1,944,027		165:	1,943,949	142—	32:	1,943,649
8—	5:	1,943,408		174:	1,943,862		96:	1,943,942			1,944,028	111—	52:	1,943,778	144—	306:	1,943,352
		1,943,787		222:	1,944,104		97:	1,943,791			1,944,029	112—	120:	1,943,301		309:	1,943,597
10—	89:	1,943,643	34—	12:	1,943,874		102:	1,943,814			1,944,030		141:	1,943,801	146—	194:	1,943,775
	100:	1,943,644		26:	1,943,579	65—	13:	1,943,866			1,944,031		241:	1,943,669	148—	7:	1,943,764
12—	7:	1,943,344		48:	1,943,793			1,944,045			1,944,032		262:	1,943,300		8:	1,943,875
	17:	1,944,015	36—	1:	1,943,999	67—	7.1:	1,943,505			1,944,033	113—	38:	1,943,555		20:	1,943,944
	33:	1,943,356		7.3:	1,943,448	68—	18:	1,943,709			1,944,034		51:	1,943,978		21.5:	1,943,505
	34:	1,943,411		11:	1,943,743		32:	1,943,503			1,944,035	115—	0.5:	1,943,564	149—	21:	1,943,794
	38:	1,943,313		11.5:	1,943,829		38:	1,943,504			1,944,036		41:	1,943,288	150—	9:	1,944,069
	42:	1,943,308		76:	1,943,476			1,943,552			1,944,037			1,943,323		54:	1,943,922
		1,943,413	40—	16:	1,944,070	69—	1:	1,943,409			1,944,039	116—	70:	1,943,834	151—	15:	1,943,672
	51:	1,943,422		125:	1,943,343			1,943,430		18:	1,943,305		142:	1,943,671	152—	14:	1,943,917
	80:	1,943,442			1,943,883	70—	14:	1,943,826		24:	1,943,508	117—	41:	1,944,142	153—	32:	1,943,700
	129.1:	1,943,657		130:	1,943,281		129:	1,943,704			1,943,511		45:	1,943,716		56:	1,943,407
	146:	1,943,410			1,943,772	71—	6:	1,944,046			1,944,111		57:	1,943,381	154—	1:	1,943,681
		1,943,443		132:	1,943,719	72—	16:	1,943,701		26:	1,943,533	119—	5:	1,943,417		2:	1,943,663
	147:	1,943,412		140:	1,943,740			1,944,079		27:	1,943,309		37:	1,943,575			1,943,757
13—	27:	1,943,802		145.2:	1,943,666		46:	1,943,285		40:	1,943,509	120—	4:	1,943,804			1,943,918
15—	102:	1,944,014		146:	1,943,295		101:	1,943,756			1,943,510		38:	1,943,792		9:	1,943,784
	137:	1,943,893	41—	22:	1,943,623		103:	1,943,485		57:	1,943,521		46:	1,943,785		46:	1,944,143
		1,944,067		36:	1,943,658		105:	1,943,731			1,943,647	121—	38:	1,943,535	155—	14:	1,943,550
	142:	1,943,449	43—	9:	1,943,372	73—	4:	1,943,393	91—	32:	1,943,818		57:	1,943,637	156—	14:	1,943,868
	244:	1,943,365		45:	1,943,283		111:	1,943,469		39:	1,943,606		142:	1,943,703		31:	1,943,896
	250:	1,943,652	45—	2:	1,943,577		167:	1,943,993		46:	1,943,450		194:	1,943,765		33:	1,943,768
		1,944,051			1,943,997	74—	5:	1,943,624			1,943,454		322:	1,944,088		44:	1,943,406
16—	86:	1,944,101		11:	1,943,563		6:	1,943,517		51:	1,943,322	122—	4:	1,944,088	158—	27.4:	1,944,047
	99:	1,943,823		24:	1,943,763		27:	1,943,603		54.4:	1,943,647		33:	1,943,373		36:	1,943,750
	114:	1,943,585			1,944,019		33:	1,943,545		70:	1,943,525			1,944,059		116:	1,943,859
	149:	1,943,691		77:	1,943,939			1,943,915			1,943,687		235:	1,943,539		77:	1,944,043
18—	1:	1,944,134		92:	1,943,282		34:	1,943,293			1,943,858		379:	1,943,622		168:	1,943,752
	19:	1,943,996		97:	1,944,061			1,943,324	92—	7:	1,943,289		442:	1,944,060	164—	88:	1,943,441
	44:	1,943,947		111:	1,943,280		54:	1,943,396			1,943,489	123—	32:	1,943,312		14:	R. 19,047
	53:	1,943,570	46—	37:	1,943,474		58:	1,943,694		21:	1,943,975			1,943,495	166—		1,943,799
		1,943,797		40:	1,943,488		59:	1,944,069		68:	1,944,093		43:	1,943,937		3:	1,944,140
	54:	1,943,353	47—	62:	Pl. Pt. 85		71:	1,943,906	93—	2:	1,943,455		61:	1,943,870	167—	38:	1,943,540
		1,943,436	49—	92:	1,943,995		81:	1,943,586			1,943,559		81:	1,943,544		93:	1,943,467
		1,943,438	51—	36:	1,943,529	75—	1:	1,943,347		6:	1,943,770			1,944,013			1,943,856
		1,943,439		194:	1,943,457			1,943,348		18:	1,943,549		119:	1,943,935			1,943,480
	57:	1,943,346	52—	4:	1,943,513		17:	1,943,307		62:	1,943,985		146.5:	1,943,426	169—	38:	1,943,934
19—	116:	1,943,707		5:	1,943,421		18:	1,943,334		93:	1,943,500		169:	1,943,481	170—	70:	1,943,571
20—	5:	1,943,686	53—	8:	1,943,973			1,943,338		94:	1,943,501			1,943,674		159:	1,944,060
	40.4:	1,943,629	56—	18:	1,943,294		22.5:	1,943,601	94—	8:	1,943,328			1,943,739	171—	97:	1,944,063
	43:	1,943,932		23:	1,943,565		60:	1,943,331	95—	5:	1,943,645		195:	1,944,052			1,944,320
	92:	1,943,777		238:	1,943,675		62:	1,943,738		5.4:	1,943,486	126—	39:	1,943,582		119:	1,943,463
22—	68:	1,943,680	57—	248:	1,943,642		67:	1,943,332		5.6:	1,944,123		108:	1,943,537			1,943,464
	131:	1,943,434	58—	19:	1,943,598			1,943,333		6:	1,943,377		190:	1,944,061			1,944,087
	206:	1,943,720	59—	85:	1,943,733			1,943,335		7:	1,943,380		293:	1,943,342		228:	1,943,432
23—	2:	1,944,122		96:	1,943,844			1,943,336		9:	1,944,132		310:	1,943,482			1,943,904
	109:	1,943,919	60—	21:	1,943,860			1,943,337		89:	1,943,389	127—	32:	1,943,382			1,943,905
	122:	1,943,497		44:	1,943,882			1,943,339	98—	2:	1,943,573	128—	20:	1,944,009		229:	1,943,524
	143:	1,943,786		52:	1,943,527			1,943,340	99—	8:	1,943,468		173:	1,944,108			1,943,781
	165:	R. 19,045			1,944,002			1,943,341		11:	1,943,374		249:	1,943,349		252:	1,944,107
		1,944,048		53:	1,943,929	76—	54:	1,943,863			1,943,587		268:	1,943,755		8:	1,943,369
	193:	1,943,345		54.6:	1,943,886	78—	25:	1,944,006			1,943,633		300:	1,944,091	172—	239:	1,943,498
	230:	1,943,684	61—	35:	1,943,914		47:	1,943,723	100—	19:	1,943,695	129—	24:	1,943,465		275:	1,944,011
	233:	1,943,821		39:	1,943,800	81—	3.1:	1,943,611	101—	19:	1,943,828	131—	12:	1,943,518		279:	1,944,090
	255:	R. 19,048		77:	1,943,420		15.1:	1,943,470		20:	1,943,607			1,943,907		284:	1,943,977
	268:	1,943,330	62—	1:	R. 19,054		49:	1,944,116		26:	1,943,404		59:	1,943,732	173—	263:	1,943,677
	289:	1,943,580		4:	1,943,317	83—	9:	1,943,306		74:	1,943,711			1,943,956		266:	1,944,008
4—	71.1:	1,943,809			1,943,318		11:	R. 19,049		378:	1,943,902	132—	28:	1,943,728			1,944,004
	365:	1,943,931			1,943,963		73:	1,943,325		391:	1,943,987		36:	1,943,889		311:	1,944,138
25—	17:	1,943,506		5:	1,943,616	87—	5:	1,943,519		401.1:	1,943,526		50:	1,943,936		324:	1,943,660
	24:	1,943,477			1,943,968		9:	1,943,806	102—	24.1:	1,943,292		81:	1,944,049			1,943,692
	131:	1,943,361		42:	1,943,938			1,943,808		39:	1,943,706	134—	55:	1,943,926		328:	1,943,590
	156:	1,944,007		66:	1,943,646		12:	1,943,319	103—	37:	1,943,974		59:	1,943,948			1,943,591
							17:	1,943,423		44:	1,943,901	136—	26:	1,944,065			

174— 89: 1,943,543
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217— 122: 1,943,824
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219— 4: 1,943,541
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6: 1,943,445
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246— 3: R. 19,046
122: R. 19,053
130: 1,943,625
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248— 31: 1,943,912
38: 1,943,659
47: 1,943,360
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14: R. 19,051
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263— 10: 1,944,082
15: 1,943,957
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55: 1,943,651
266— 23: 1,944,125
267— 4: 1,943,492
8: 1,943,911
9: 1,943,887
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273— 34: 1,943,610
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274— 42: 1,943,460
276— 3: 1,943,354
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292— 228: 1,943,946
241: 1,943,927
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293— 55: R. 19,050
296— 28: 1,943,472
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99: 1,944,053
137: 1,943,588
299— 39: 1,943,655
107.2: 1,943,718
301— 40: 1,943,620
302— 42: 1,943,376
52: 1,943,780
55: 1,943,589
303— 4: 1,943,574
6.1: 1,943,819
38: 1,943,503
82: 1,943,615
304— 2: 1,943,371
306— 11: 1,943,479
34: 1,943,807
308— 88: 1,943,298
160: 1,943,891
174: 1,943,864
201: 1,943,955
208: 1,943,827
214: 1,943,419
217: 1,943,894
220: 1,943,735
309— 20: 1,943,364
34: 1,943,679

U.S. GOVERNMENT PRINTING OFFICE: 1934

LIST OF TRADE-MARK APPLICANTS

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

PUBLISHED FOR OPPOSITION

A C Spark Plug Company, Flint, Mich. Speedometers, tachometers, film-speed indicators, etc. Serial No. 343,107; Jan. 23. Class 26.

Agdil Corporation, Atlanta, Ga. Pencils and ferrules therefor. Serial No. 344,459; Jan. 23. Class 37.

Ainslie & Heilbron (Distillers) Limited, Glasgow, Scotland. Whisky. Serial No. 343,580; Jan. 23. Class 49.

American Tobacco Company, The, New York, N. Y. Cigars, cheroots, and all-tobacco cigarettes. Serial No. 344,493; Jan. 23. Class 17.

American Wine Journal. (See Occidental Publishing Co.)

Arcade File Works, Anderson, Ind. Files and rasps. Serial No. 343,671; Jan. 23. Class 23.

Artop Co. (See Bushman, Ralph E.)

B. C. Company, Ltd., New York, N. Y. Wines. Serial No. 344,465; Jan. 23. Class 47.

Beauty Utilities, Inc., Dover, Del., and Newark, N. J. Permanent waving and permanent waving hair-curling machines, and supplies therefor. Serial No. 342,103; Jan. 23. Class 44.

Beechams Pills, Inc., Niagara Falls, N. Y. Laxative or cathartic. Serial No. 344,380; Jan. 23. Class 6.

Best Manufacturing Co. Inc., Irvington, N. J. Table game. Serial No. 344,469; Jan. 23. Class 22.

Biltrite Motor Equipment Co. Inc., New York, N. Y. Electric supplies and accessories. Serial No. 343,719; Jan. 23. Class 21.

Birner, Philip, doing business as Del Vino Grape Products Co., New York, N. Y. Wines. Serial Nos. 344,749–50; Jan. 23. Class 47.

Bollinger, Jacques J. M., Ay, France. Champagne wines. Serial Nos. 344,494–5; Jan. 23. Class 47.

Boord & Son, Ltd., London, England. Gin, alcoholic bitters, whiskey, etc. Serial No. 343,721; Jan. 23. Class 49.

Boston Putty Works, Inc., doing business as Hub Paint Company, Boston, Mass. Paints, paint enamel, and kalsomine. Serial No. 321,374; Jan. 23. Class 16.

Bourjois, Inc., New York, N. Y. Toilet soap. Serial No. 344,082; Jan. 23. Class 4.

Bourjois, Inc., New York, N. Y. Powder puffs. Serial No. 344,381; Jan. 23. Class 29.

Bownes, Frank, Company, Inc., Chelsea, Mass. Floor cleaners. Serial No. 343,764; Jan. 23. Class 4.

Bownes, Frank, Company, Inc., Chelsea, Mass. Crack fillers. Serial No. 343,765; Jan. 23. Class 12.

Brightman Leather Co., Inc., Brooklyn, N. Y. Leather. Serial No. 343,911; Jan. 23. Class 1.

Bulloch Lade & Company Limited, Glasgow, Scotland. Whisky. Serial No. 344,383; Jan. 23. Class 49.

Bulloch Lade & Company Limited, Glasgow, Scotland. Whisky. Serial No. 344,385; Jan. 23. Class 49.

Burns, Jabez, & Sons, Inc., New York, N. Y. Machines for grinding and treating coffee and coffee chaff. Serial No. 344,134; Jan. 23. Class 23.

Bushman, Ralph E., doing business as Artop Co., Los Angeles, Calif. Bridge tables, combination fireplace ornament and bridge table, etc. Serial No. 339,250; Jan. 23. Class 32.

California Products & Extract Co., San Francisco, Calif. Wines. Serial No. 344,758; Jan. 23. Class 47.

Cannarozzo, Joseph, doing business as Malden Baking Company, Malden, Mass. Frozen confection. Serial No. 344,828; Jan. 23. Class 46.

Chabanneau, Piere, & Co., Bordeaux and Cognac, France. Brandies and cognacs. Serial No. 343,640; Jan. 23. Class 49.

Champagne Perrier-Jouët Société Anonyme, doing business as Perrier-Jouët & Co., Epernay, France. Champagne wines. Serial No. 343,386; Jan. 23. Class 47.

Champagne Vineyards Corporation of America, Jersey City, N. J. Wines. Serial No. 344,883; Jan. 23. Class 47.

Clapp, Otis, & Son, Inc., Boston, Mass. Sedative. Serial No. 344,223; Jan. 23. Class 6.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,507; Jan. 23. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,510; Jan. 23. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,513; Jan. 23. Class 49.

Coffee Products of America, Inc. Ltd., Los Angeles, Calif. Coffee. Serial No. 341,756; Jan. 23. Class 46.

Columbia University Press, New York, N. Y. Periodical. Serial No. 344,177; Jan. 23. Class 38.

Compagnies Réunies des Glaces & Verres Spécinux du Nord de la France, Boussois-sur-Sambre, Nord, France. Sheet glass and mirrors. Serial No. 344,258; Jan. 23. Class 33.

Continental Products Company, Inc., The. (See Myer, Robert S.)

Curtin-Howe Corporation, New York, N. Y. Compositions for treating metal surfaces. Serial No. 344,139; Jan. 23. Class 6.

Delbeck & Cie, Societe à Responsabilite Limitee, Reims, France. Champagne wines. Serial No. 344,395; Jan. 23. Class 47.

Delta Chi Sigma Sorority, Dayton, Ohio. Fraternity badges, lapel buttons, scarf, lapel and breast pins, etc. Serial No. 344,178; Jan. 23. Class 28.

Del Vino Grape Products Co. (See Birner, Philip.)

Detroit Sulphite Pulp & Paper Co., Detroit, Mich. Paper. Serial No. 342,428; Jan. 23. Class 37.

Douglas, Sydney, doing business as Stakolite Company, Boston, Mass. Paint, varnish, etc. Serial No. 344,260; Jan. 23. Class 16.

Dove, Lillian S., Chicago, Ill. Medicine for the treatment and relief of common female ailments. Serial No. 344,086; Jan. 23. Class 6.

Duratone, Inc., Cincinnati, Ohio. Soap or detergent. Serial No. 341,017; Jan. 23. Class 4.

Esmond Mills, The, New York, N. Y. Blankets. Serial No. 343,273; Jan. 23. Class 42.

Fairmount Glass Works, Inc., Indianapolis, Ind. Glass bottles and jars. Serial No. 344,319; Jan. 23. Class 33.

Familton, R. M., doing business as Harvest Grains Co., Tacoma, Wash. Cereal breakfast food. Serial No. 340,714; Jan. 23. Class 46.

Fenole Chemical Company, Jacksonville, Fla. Product which is a disinfectant, deodorizer, and cleanser. Serial No. 343,033; Jan. 23. Class 6.

Filastic, Limited, London, England. Cotton yarn. Serial No. 342,649; Jan. 23. Class 43.

Filippone, B., & Co., assignor to B. Filippone & Co. Inc., Passaic, N. J. Macaroni. Serial No. 343,980; Jan. 23. Class 46.

Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 344,471; Jan. 23. Class 49.

Foley Greenhouse Manufacturing Co., The, Forest Park, Ill. Greenhouse-ventilating apparatus. Serial No. 343,859; Jan. 23. Class 34.

Frankel, Henry G., doing business as National Duplicating Company, Denver, Colo. Stencil paper. Serial No. 344,264; Jan. 23. Class 37.

Frankfort Distillery, Inc., The, Louisville, Ky. Gin. Serial No. 343,983; Jan. 23. Class 49.

French-Stamats, Inc., Cedar Rapids, Iowa. Magazine. Serial No. 344,532; Jan. 23. Class 38.

Gamewell Company, The, Newton and Newton Upper Falls, Mass. Electrical thermo-responsive alarm signal units, electrical horns, etc. Serial No. 344,433; Jan. 23. Class 21.

General Wines & Spirits Corporation, Dover, Del., and New York, N. Y. Wines. Serial No. 344,903; Jan. 23. Class 47.

Genovesi Bros., Zappelli Co., San Jose, Calif. Olive oil. Serial No. 344,780; Jan. 23. Class 46.

Gillette Safety Razor Company, Boston, Mass. Clocks and watches. Serial No. 344,473; Jan. 23. Class 27.

Golden Chemical Co. (See Mandelbaum, Joseph.)

Goldenberg, Robert, doing business as Sphinx Distributing Company, Los Angeles, Calif. Beer. Serial No. 343,862; Jan. 23. Class 48.

Goldenberg, Robert, doing business as Sphinx Distributing Company, Los Angeles, Calif. Maltless beverages. Serial No. 343,863; Jan. 23. Class 45.

Goldenberg, Robert, doing business as Sphinx Distributing Company, Los Angeles, Calif. Wines. Serial No. 343,864; Jan. 23. Class 47.

Gould, Robert, doing business as Old Guard Products Co., New York, N. Y. Ginger ale. Serial No. 344,978; Jan. 23. Class 45.

Great American Tea Co., The, New York, N. Y. Razor blades. Serial No. 343,648; Jan. 23. Class 23.

Grumbacher, M., New York, N. Y. Artists' brushes. Serial Nos. 344,324–5; Jan. 23. Class 29.

Halligan, William J., Chicago, Ill. Radio receiving sets, loud-speakers, etc. Serial No. 344,055; Jan. 23. Class 21.

Hanappier Peyrelongue & Cie, Bordeaux, France. Wines. Serial No. 344,904; Jan. 23. Class 47.

Harvest Grains Co. (See Familton, R. M.)

Hauptmann, Peter, Tobacco Co., St. Louis, Mo. Cigars. Serial No. 344,274; Jan. 23. Class 17.

Hodes, Adam K., Fremont, Ohio. Rubber mats. Serial No. 341,971; Jan. 23. Class 50.

Hofer, E., and Sons, Portland, Oreg. Periodicals. Serial No. 343,684; Jan. 23. Class 38.

Hollingshead, R. M., Co., The, Camden, N. J. Japan iron enamel, paint, varnish, etc. Serial No. 332,392; Jan. 23. Class 16.

Hostess Frocks, Inc., New York, N. Y. Frocks. Serial No. 344,974; Jan. 23. Class 39.

Hub Paint Company. (See Boston Putty Works, Inc.)

Hyral Company, Fort Worth, Tex. Dentifrice. Serial No. 343,612; Jan. 23. Class 6.

Johnson & Johnson, New Brunswick, N. J. Talcum powder for men. Serial No. 344,282; Jan. 23. Class 6.

Jones, John R., Palmerton, Pa. Maltless beverage and sirup and extract for making the same. Serial No. 344,853; Jan. 23. Class 45.

Karp, Joseph H., New York, N. Y. Pharmaceutical preparation. Serial No. 343,288; Jan. 23. Class 6.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Kearney & Foot Company, Providence, R. I. Files and rasps. Serial No. 343,686; Jan. 23. Class 28.
Kleen Chemical Company, Philadelphia, Pa. Cleaning compound. Serial No. 339,037; Jan. 23. Class 4.
Kornman, A. L., Company, Nashville, Tenn. Suits, coats, and overcoats, etc. Serial No. 342,275; Jan. 23. Class 39.
Kraft-Phenix Cheese Corporation, Chicago, Ill. Milk protein (casein). Serial No. 344,593; Jan. 23. Class 46.
Labatt, John, Limited, London, Ontario, Canada. Ale, beer, and stout. Serial No. 339,971; Jan. 23. Class 48.
Labatt, John, Limited, London, Ontario, Canada. Ale, beer, and stout. Serial No. 341,039; Jan. 23. Class 48.
Labatt, John, Limited, London, Ontario, Canada. Ale and beer. Serial Nos. 341,040–1; Jan. 23. Class 48.
Labatt, John, Limited, London, Ontario, Canada. Ales, stout and lager. Serial No. 341,605; Jan. 23. Class 48.
Labatt, John, Limited, London, Ontario, Canada. Beer. Serial No. 341,042; Jan. 23. Class 48.
Lake Shore Tire & Rubber Company, Des Moines, Iowa. Pneumatic tires. Serial No. 338,320; Jan. 23. Class 35.
Lang Brothers, Limited, Glasgow, Scotland. Whisky. Serial No. 343,212; Jan. 23. Class 49.
Lehigh Portland Cement Company, Allentown, Pa. Cement. Serial No. 333,834; Jan. 23. Class 12.
Liquid Carbonic Corporation, The, Chicago, Ill. Insecticide and fumigant. Serial No. 344,196; Jan. 23. Class 6.
Magazines, Inc., New York, N. Y. Periodical. Serial Nos. 344,289–90; Jan. 23. Class 38.
Malden Baking Company. (See Cannarozzo, Joseph.)
Mandelbaum, Joseph, doing business as Golden Chemical Co., New York, N. Y. Insecticide. Serial No. 344,160; Jan. 23. Class 6.
McBee Company, The, Athens, Ohio. Paper and envelopes. Serial No. 342,318; Jan. 23. Class 37.
McQuiston, Raymond C., West Newton, Mass. Artificial leather in the piece. Serial No. 343,925; Jan. 23. Class 50.
Mission Dry Corporation, Ltd., Los Angeles, Calif. Whiskey, gin, brandy, and distilled alcoholic cordials. Serial Nos. 343,218–20; Jan. 23. Class 49.
Moss Stores, Inc., San Francisco, Calif. Gloves. Serial No. 343,130; Jan. 23. Class 39.
Müller, Matheus, Kommandit-Gesellschaft auf Aktien, Eltville-on-the-Rhine, Germany. Wines. Serial No. 343,460; Jan. 23. Class 47.
Myer, Robert S., doing business as The Continental Products Company, Inc., Newark, N. J. Mops utilizing steel wool or metal wire. Serial No. 338,533; Jan. 23. Class 4.
National Duplicating Company. (See Frankel, Henry G.)
National Floor Company, Chicago, Ill. Artificial stone floors. Serial No. 344,407; Jan. 23. Class 12.
Nicholson File Company G. & H. Barnett Division, Providence, R. I. Files and rasps. Serial No. 343,699; Jan. 23. Class 28.
Nolde & Horst Sales Co., Inc., New York, N. Y. Hosiery. Serial No. 343,700; Jan. 23. Class 39.
Occidental Publishing Co., doing business as American Wine Journal, Los Angeles, Calif. Publication published periodically. Serial No. 343,623; Jan. 23. Class 38.
Ohlen-Bishop Company, The, Columbus, Ohio. Saws. Serial No. 341,488; Jan. 23. Class 23.
Old Abbey Wine Co., Inc. (See Tonkin Distributing Co.)
Old Colony Wine Company. (See Pafford, H. R.)
Old Guard Products Co. (See Gould, Robert.)
Orthopedic Shoes Inc., New York, N. Y. Shoes. Serial No. 342,921; Jan. 23. Class 39.
Outdoor Publishing Company, New York, N. Y. Section of a monthly publication. Serial No. 343,785; Jan. 23. Class 38.
Pacific Lumber Company, The, San Francisco, Calif. Shredded bark for thermal and sound insulation. Serial No. 341,772; Jan. 23. Class 12.
Pafford, H. R., doing business as Old Colony Wine Company, Los Angeles, Calif. Wines. Serial No. 344,802; Jan. 23. Class 47.
Patterson Foundry & Machine Company, The, East Liverpool, Ohio. Porcelain blocks and cement. Serial No. 340,172; Jan. 23. Class 12.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Bathrobes, berets, bibs, etc. Serial No. 342,488; Jan. 23. Class 39.
Perrier-Jouët & Co. (See Champagne, Perrier-Jouët, Société Anonyme.)
Pinkham, Lydia E., Medicine Co., Lynn, Mass. Blood purifiers, vegetable compounds, uterine tonics, etc. Serial No. 344,920; Jan. 23. Class 6.
Plough, Inc., Memphis, Tenn. Medicinal preparation. Serial No. 343,876; Jan. 23. Class 6.
Purdy, Chas. H., Co., New York, N. Y. Bread-cooling ventilators. Serial No. 342,621; Jan. 23. Class 34.
Pure Milk Dairy Products, Inc., Elgin, Ill. Cheese. Serial No. 342,449; Jan. 23. Class 46.
Purepac Corporation, New York, N. Y. Insecticides and deodorants. Serial No. 344,106; Jan. 23. Class 6.
Radiant Fuel Corporation, St. Louis, Mo. Carbonized bituminous coal. Serial No. 344,164; Jan. 23. Class 1.
Reed & Barton, Taunton, Mass. Hollow ware and flatware of silver and/or other precious metals. Serial No. 343,880; Jan. 23. Class 28.
Reed & Barton, Taunton, Mass. Hollow ware and flatware of silver and/or other precious metals. Serial No. 343,931; Jan. 23. Class 28.
Romeo Import Co., Inc., New York, N. Y. Wines. Serial No. 344,729; Jan. 23. Class 47.
Schenley Wine & Spirit Import Corporation, New York, N. Y. Wines. Serial No. 344,988; Jan. 23. Class 47.
Schiff, Simon, doing business as Lawrence Schiff & Co., New York, N. Y. Ribbons. Serial No. 343,368; Jan. 23. Class 42.
Scholastic Corporation, New York, N. Y. Periodical. Serial No. 344,677; Jan. 23. Class 38.
Schultz, William L., New York, N. Y. Soaps. Serial No. 344,358; Jan. 23. Class 4.
Scientific Laboratories, Inc., Tampa, Fla. Tooth paste for smokers. Serial No. 342,990; Jan. 23. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Hot-water heaters. Serial No. 343,228; Jan. 23. Class 19.
Sharples Solvents Corporation, The, Philadelphia, Pa. Odorizing compositions. Serial No. 336,838; Jan. 23. Class 6.
Sharples Solvents Corporation, Philadelphia, Pa. Phenolic compositions. Serial No. 336,839; Jan. 23. Class 6.
Sichel & Company, London, England. Wines. Serial No. 338,945; Jan. 23. Class 47.
Silicox, Herbert A., New York, N. Y. Radio receiving and transmitting sets and parts thereof, and radio tubes. Serial No. 344,922; Jan. 23. Class 21.
Societe Anonyme Etablissements Sardet & Deribaucourt, Paris, France. Wines. Serial No. 344,551; Jan. 23. Class 47.
Sphinx Distributing Company. (See Goldenberg, Robert.)
Spink, Charles C., & Son. (See Sporting News Publishing Company, The.)
Sporting News Publishing Company, The, doing business as Charles C. Spink & Son, St. Louis, Mo. Newspaper and magazine section. Serial No. 344,485; Jan. 23. Class 38.
Stadia Seat Specialty Co., Chicago, Ill. Back rests for stadia seats. Serial No. 343,528; Jan. 23. Class 32.
Stakolite Company. (See Douglas, Sydney.)
Stearns, Frederick, & Co., Detroit, Mich. Germicides and antiseptics. Serial No. 343,047; Jan. 23. Class 6.
Strauss, B., M. & J., Ltd., London, England. Champagne. Serial No. 341,902; Jan. 23. Class 47.
Stuyvesant Distilling Corp., Long Island City, N. Y. Gin. Serial No. 344,552; Jan. 23. Class 49.
Swanson, Bamma R. L., Dayton, Ohio. Preparation for the treatment of the hair and scalp. Serial No. 344,209; Jan. 23. Class 6.
Tonkin Distributing Co., doing business as Old Abbey Wine Co., Inc., San Francisco, Calif. Wines. Serial Nos. 344,815–16; Jan. 23. Class 47.
Tower Magazines, Inc., Wilkes-Barre, Pa. Periodical. Serial No. 344,300; Jan. 23. Class 38.
United Press Association, The, New York, N. Y. Newspaper column. Serial No. 344,211; Jan. 23. Class 38.
Waggoner Refining Company, Incorporated, Electra, Tex. Gasoline. Serial No. 336,384; Jan. 23. Class 15.
Ward, Thomas, Distilling Company, The, Westminster, Md. Whiskey and/or other potable distilled spirits. Serial No. 344,875; Jan. 23. Class 49.
Warden, Herbert W., jr., Philadelphia, Pa. Wines. Serial No. 344,737; Jan. 23. Class 47.
Weihmiller, Horace E., Buffalo, N. Y. Boxed cigars. Serial No. 344,821; Jan. 23. Class 17.
Welsh, Ezra C., Grimsby, Ontario, Canada. Whiskey. Serial No. 343,535; Jan. 23. Class 49.
Westheimer, Ferdinand, Sons Company, The, Cincinnati, Ohio. Whiskey. Serial No. 343,244; Jan. 23. Class 49.
Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Glass globes or refractors. Serial No. 329,207; Jan. 23. Class 33.
Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Refrigerating machines. Serial No. 302,171; Jan. 23. Class 31.
Williams Tool Corporation, Erie, Pa. Threading and cutting machines. Serial No. 308,277; Jan. 23. Class 23.
Windsor-Lloyd Products, Inc., Wilmington, Del. Incandescent electric-light bulbs. Serial No. 342,995; Jan. 23. Class 21.
Windsor-Lloyd Products, Inc., Wilmington, Del. Tire and tube patches and repair kits. Serial No. 343,808; Jan. 23. Class 35.
Windsor-Lloyd Products, Inc., Wilmington, Del. Adhesive rubber cement. Serial No. 343,809; Jan. 23. Class 5.
Wright & Craig Limited, Glasgow, Scotland. Whisky. Serial No. 344,416; Jan. 23. Class 49.
Youngs Rubber Corporation, Inc., New York, N. Y. Prophylactic rubber articles. Serial No. 340,458; Jan. 23. Class 44.

LIST OF REGISTRANTS OF TRADE-MARKS

Ahrens Publishing Co., Inc., New York, N. Y. Section in monthly magazine. 309,628; Jan. 23; Serial No. 341,152; published Nov. 7, 1933. Class 38.
Alabastine Company, Grand Rapids, Mich. Paints and wall coatings. 309,671; Jan. 23; Serial No. 341,183; published Nov. 14, 1933. Class 16.
Alexander, Andrew N., doing business as A. Alexander, New York, N. Y. Cocoa and chocolate. 309,632; Jan. 23; Serial No. 331,942; published Nov. 7, 1933. Class 46.
Alkets Co. (See Stotlar-Hagler Drug Co.)
American Woolen Company, Boston, Mass. Piece goods. 309,621; Jan. 23; Serial No. 341,035; published Oct. 31, 1933. Class 42.
Amrite Price Card Holder Company. (See Griesbach, William.)
Animal Foods Company, San Jose, Calif. Dog medicines. 309,699; Jan. 23. Class 6.
Aronson-Caplin Company, Inc., New York, N. Y. Women's apparel. 309,708; Jan. 23. Class 39.
Augstein, S., & Co., College Point, New York, N. Y. Dresses, suits, sweaters, blouses. 309,591; Jan. 23; Serial No. 340,860; published Nov. 14, 1933. Class 39.
Augstein, S., & Co., College Point, New York, N. Y. Dresses, suits, sweaters, blouses. 309,622; Jan. 23; Serial No. 341,112; published Nov. 14, 1933. Class 39.
Augstein, S., & Co., College Point, New York, N. Y. Dresses, suits, sweaters, blouses. 309,687; Jan. 23; Serial No. 341,270; published Nov. 14, 1933. Class 39.
Augstein, S., & Co., College Point, New York, N. Y. Dresses, suits, sweaters, etc. 309,690; Jan. 23; Serial No. 341,269; published Nov. 14, 1933. Class 39.
Benz, George, Sons, Inc., St. Paul, Minn. Whisky. 309,651; Jan. 23; Serial No. 341,230; published Oct. 17, 1933. Class 49.
Best & Co., Inc., New York, N. Y. Shoes. 309,585; Jan. 23; Serial No. 340,304; published Oct. 31, 1933. Class 39.
Billups, C., Son & Company, Inc., Norfolk, Va. Plows, moldboards, landsides, etc. 309,644; Jan. 23; Serial No. 339,926; published Nov. 14, 1933. Class 23.
Binney & Smith Co., New York, N. Y. Chalk crayons. 309,700; Jan. 23. Class 37.
Blue Bird Uniform Company, Philadelphia, Pa. Wraparound dresses and nurses' and maids' uniforms. 309,686; Jan. 23; Serial No. 341,541; published Nov. 14, 1933. Class 39.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics in the piece. 309,572; Jan. 23; Serial No. 337,012; published Oct. 31, 1933. Class 42.
Brown Durrell Co., Boston, Mass. Dresses. 309,584; Jan. 23; Serial No. 340,216; published Nov. 14, 1933. Class 39.
Brown & Wells, Inc., Boston, Mass. Four-in-hand neckties. 309,692; Jan. 23; Serial No. 341,158; published Nov. 7, 1933. Class 39.
Bunting's Novelty Mart, North Chicago, Ill. Magazine. 309,600; Jan. 23; Serial No. 341,391; published Nov. 7, 1933. Class 38.
Burda Company. (See Burdashaw, Janette T.)
Burdashaw, Janette T., doing business as Burda Company, Augusta, Ga. Nonalcoholic maltless beverages. 309,709; Jan. 23. Class 45.
Bush, W. J., & Co. Inc., New York, N. Y. Astringents, beauty creams, powders etc. 309,696; Jan. 23. Class 6.
Buti-Lash Co., New York, N. Y. Eyelash curlers. 309,620; Jan. 23; Serial No. 341,911; published Nov. 14, 1933. Class 44.
Butka-Swartout, Daisy, doing business as Psyl-O-Fig Company, Los Angeles, Calif. Laxative mixture. 309,661; Jan. 23; Serial No. 341,673; published Nov. 14, 1933. Class 6.
Byron Weston Company, Dalton, Mass. Ledger and bond paper. 309,611; Jan. 23; Serial No. 341,754; published Nov. 14, 1933. Class 37.
Campbell, Louis S., doing business as Louis S. Campbell Company, Kewaunee, Wis. Protective coating for laboratory table tops. 309,558; Jan. 23; Serial No. 341,392; published Nov. 14, 1933. Class 16.
Carnall, Laurina L., Boston, Mass. Corsets and corselets. 309,637; Jan. 23; Serial No. 319,308; published Nov. 14, 1933. Class 39.
Celanese Corporation of America, New York, N. Y. Piece goods of cellulose derivatives. 309,597; Jan. 23; Serial No. 340,948; published Oct. 31, 1933. Class 42.
Celanese Corporation of America, New York, N. Y. Piece goods of cellulose derivatives. 309,633; Jan. 23; Serial No. 329,324; published Oct. 31, 1933. Class 42.
Charm Products Incorporated, Los Angeles, Calif. Cosmetics, toiletries, beauty preparations and accessories. 309,570; Jan. 23; Serial No. 338,128; published Nov. 14, 1933. Class 6.
Chic Hat Company, Chicago, Ill. Millinery. 309,563; Jan. 23; Serial No. 339,421; published Nov. 14, 1933. Class 39.
Chronicle Publishing Company, The, San Francisco, Calif. Distinctive heading or caption for newspaper articles. 309,606; Jan. 23; Serial No. 341,620; published Nov. 14, 1933. Class 38.
Cohen, Goldman & Co., Inc., New York, N. Y. Outer garments. 309,685; Jan. 23; Serial No. 341,320; published Nov. 14, 1933. Class 39.
Cold Blast Feather Co., The, Philadelphia, Pa. Mattresses. 309,603; Jan. 23; Serial No. 341,424; published Nov. 14, 1933. Class 32.
Colwell Publishing Company, Champaign, Ill. Physcian's record and account book. 309,610; Jan. 23; Serial No. 341,758; published Nov. 14, 1933. Class 37.
Cornell Research Foundation, Inc., Ithaca, N. Y. Cereal product. 309,586–7; Jan. 23; Serial Nos. 340,156–7; published Nov. 7, 1933. Class 46.
Cott Printing and Index Company, The, Columbus, Ohio. Loose-leaf sheets. 309,648; Jan. 23; Serial No. 339,700; published Nov. 7, 1933. Class 37.
Daroff, H., & Sons, Inc., Philadelphia, Pa. Suits, topcoats, and overcoats. 309,679; Jan. 23; Serial No. 341,915; published Nov. 14, 1933. Class 39.
Daroff, H., & Sons, Inc., Philadelphia, Pa. Suits, topcoats, and overcoats. 309,680; Jan. 23; Serial No. 341,916; published Nov. 7, 1933. Class 39.
Design Engineers, Incorporated, New York, N. Y. Picture frames. 309,579; Jan. 23; Serial No. 333,351; published Nov. 14, 1933. Class 32.
Deters, George H., New York, N. Y. Polish. 309,610; Jan. 23; Serial No. 341,917; published Nov. 14, 1933. Class 16.
Dollinger, Mark, Indianapolis, Ind. Music lesson sheets. 309,569; Jan. 23; Serial No. 338,970; published Nov. 14, 1933. Class 38.
Etti Studios, Incorporated, New York, N. Y. Modeling clay. 309,688; Jan. 23; Serial No. 341,323; published Nov. 14, 1933. Class 1.
Exhaust Publishing Co., The, Los Angeles, Calif. Magazine. 309,626; Jan. 23; Serial No. 342,070; published Nov. 14, 1933. Class 38.
Fashion Park Associates, Inc., Rochester, N. Y., assignor to Fashion Park Manufacturing Corporation. Coats, vests, pants, etc. 309,702; Jan. 23. Class 39.
Fay-Miss Brassiere Co. Inc., New York, N. Y. Corsets and brassières. 309,567; Jan. 23; Serial No. 339,267; published Oct. 31, 1933. Class 39.
Fidelity Manufacturing Co., Inc., Zionsville, Pa. Patches for pneumatic automobile tires. 309,638; Jan. 23; Serial No. 319,811; published Nov. 14, 1933. Class 35.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, brandy, gin, and other potable distilled spirits. 309,655; Jan. 23; Serial No. 341,793; published Oct. 31, 1933. Class 49.
Finch, Jos. S., & Company, doing business as Greenbrier Distillery Co., New York, N. Y. Whiskey, brandy, gin, and other potable distilled spirits. 309,658; Jan. 23; Serial No. 341,794; published Oct. 31, 1933. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, brandy, gin, and other potable distilled spirits. 309,713; Jan. 23. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey. 309,714; Jan. 23. Class 49.
Fink, A., & Son, Inc., Newark, N. J. Canned fruits, vegetables, and fish, tea, etc. 309,564; Jan. 23; Serial No. 339,268; published Nov. 7, 1933. Class 46.
Finke's, A., Widow. (See Groezinger, E. A.)
Fishgoll, Eugene J., doing business as Rite-Health Research Laboratories, St. Louis, Mo. Castor oil, turpentine, tincture iodine, etc. 309,711; Jan. 23. Class 6.
Freeman, Sol, New York, N. Y. Knitted sportswear for women. 309,712; Jan. 23. Class 39.
Frigidaire Corporation. (See Meterice of America Co., Ltd., assignor.)
Gidding, L., & Co. Inc., New York, N. Y. Dresses and frocks. 309,571; Jan. 23; Serial No. 338,300; published Oct. 31, 1933. Class 39.
Gilbert, A. C., Company, The, New Haven, Conn. Portable electrically driven devices. 309,576; Jan. 23; Serial No. 334,679; published Apr. 11, 1933. Class 21.
Gilman, Howard J., Chicago, Ill. Silk hosiery. 309,589; Jan. 23; Serial No. 340,874; published Oct. 31, 1933. Class 39.
Glaser, Sol, & Co.-Sol Zion & Co. Dept. (See Zion, Sol.)
Goidl, Saul, doing business as Goidl Neckwear Manufacturing Company, Dallas, Tex. Cravats and ties. 309,595; Jan. 23; Serial No. 340,962; published Nov. 14, 1933. Class 39.
Goodman, H., & Sons, Inc., New York, N. Y. Hairpins, combs, wavers, crimpers, and curlers. 309,609; Jan. 23; Serial No. 341,653; published Nov. 7, 1933. Class 40.
Graves, C. H., & Sons Company, Boston, Mass. Gin and other potable distilled liquors. 309,653; Jan. 23; Serial No. 341,400; published Nov. 14, 1933. Class 49.
Graves, C. H., & Sons Company, Boston, Mass. Whiskey, gin, and other potable distilled liquors. 309,656; Jan. 23; Serial No. 341,520; published Nov. 14, 1933. Class 49.
Gray-Line Hosiery Company, Eddington, Pa. Hosiery. 309,681; Jan. 23; Serial No. 341,701; published Nov. 7, 1933. Class 39.

Greenbrier Distillery Co. (See Finch, Jos. S., & Company.)
Grierson, Oldham & Co., Limited, London, England. Wines. 309,588; Jan. 23; Serial No. 340,738; published Nov. 14, 1933. Class 47.
Grierson, Oldham & Co., Limited, London, England. Brandy, rum, whisky, and gin. 309,652; Jan. 23; Serial No. 340,740; published Nov. 14, 1933. Class 49.
Griesbach, William, doing business as Amrite Price Card Holder Company, Greenfield, Mass. Metal holders for price cards for indicating the price of an article. 309,689; Jan. 23; Serial No. 341,165; published Nov. 14, 1933. Class 13.
Groezinger, E. A., doing business as A. Finke's Widow, San Francisco, Calif. Wines. 309,707; Jan. 23. Class 47.
Haire Publishing Company, Inc., The, New York, N. Y. Section of a periodical publication. 309,645; Jan. 23; Serial No. 339,721; published Nov. 14, 1933. Class 38.
Haire Publishing Company, Inc., The, New York, N. Y. Publication. 309,646; Jan. 23; Serial No. 339,722; published Nov. 7, 1933. Class 38.
Haniel, Franz, & Cie Gesellschaft mit beschränkter Haftung Zweigniederlassung Mannheim, Mannheim, Germany. Fertilizers. 309,677; Jan. 23; Serial No. 341,650; published Nov. 14, 1933. Class 10.
Hartz Mountain Products Inc., New York, N. Y. Bird food. 309,717; Jan. 23. Class 46.
Heraeus-Vacuumschmelze Aktiengesellschaft, Hanau-on-the-Main, Germany. Hair springs for watches. 309,582; Jan. 23; Serial No. 340,504; published Nov. 14, 1933. Class 27.
Hollenbru Inc., Brooklyn, N. Y. Beer. 309,683; Jan. 23; Serial No. 341,628; published Nov. 14, 1933. Class 48.
Jenkins & Adair, Inc., Chicago, Ill. Phonographs and parts thereof and records. 309,562; Jan. 23; Serial No. 339,316; published Nov. 7, 1933. Class 36.
Jenkins & Adair, Inc., Chicago, Ill. Phonographs and parts thereof and phonograph records. 309,565; Jan. 23; Serial No. 339,315; published Nov. 7, 1933. Class 36.
Jones Dairy Farm, Inc., Fort Atkinson, Wis. Hams. 309,573; Jan. 23; Serial No. 337,036; published Nov. 7, 1933. Class 46.
Kasko Products Co., Inc., Philadelphia, Pa. Malt beverage. 309,698; Jan. 23. Class 48.
Kentucky River Distillery, Inc. (See Stagg, Geo. T., Co., The.)
King & Alpert, New York, N. Y. Women's blouses. 309,659; Jan. 23; Serial No. 341,023; published Nov. 7, 1933. Class 39.
Kops Brothers, Inc., New York, N. Y. Girdles, brassières, and corsets. 309,643; Jan. 23; Serial No. 339,727; published Oct. 31, 1933. Class 39.
Leading Brassiere Co., Inc., New York, N. Y. Corsets, corselettes, brassières, and girdles. 309,627; Jan. 23; Serial No. 341,207; published Nov. 7, 1933. Class 39.
Lindenhurst Manufacturing Company, Lindenhurst, N. Y. Buttons and buckles. 309,615; Jan. 23; Serial No. 341,869; published Nov. 14, 1933. Class 40.
Lipschuitz Bros. Inc., St. Paul, Minn. Automobile seat covers. 309,701; Jan. 23. Class 19.
M. O. Valve Company Limited, The, London, England. Electric discharge tubes. 309,575; Jan. 23; Serial No. 336,550; published Nov. 7, 1933. Class 21.
Macfadden Publications, Inc., New York, N. Y. Magazine. 309,691; Jan. 23; Serial No. 341,131; published Nov. 14, 1933. Class 38.
Manufacturers Aircraft Association, Inc., New York, N. Y. Publication. 309,640; Jan. 23; Serial No. 342,119; published Nov. 14, 1933. Class 38.
Martin-Senour Company, The, Cleveland, Ohio. Paints, paint enamels, varnishes, etc. 309,663; Jan. 23; Serial No. 341,636; published Nov. 14, 1933. Class 16.
McBrady, John E., Chicago, Ill. Preparation for stimulating the growth of hair. 309,706; Jan. 23. Class 6.
McGarry, Frank, Philadelphia, Pa. Window drapes. 309,604; Jan. 23; Serial No. 341,533; published Nov. 14, 1933. Class 42.
McGovern & McGovern, Seattle, Wash. Canned fish. 309,598; Jan. 23; Serial No. 340,889; published Nov. 7, 1933. Class 46.
McKesson & Robbins, Incorporated, Bridgeport and Fairfield, Conn. Razor blades. 309,666; Jan. 23; Serial No. 341,583; published Nov. 14, 1933. Class 23.
Mendez, Louis D., doing business as Louis Diaz Mendez Co., New York, N. Y. Radio receiving sets. 309,650; Jan. 23; Serial No. 338,982; published Nov. 14, 1933. Class 21.
Merkin, M. J., Paint Co. Inc., New York, N. Y. Paint or enamel. 309,590; Jan. 23; Serial No. 340,822; published Nov. 14, 1933. Class 16.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Glandular product used for treatment of functional uterine disorders. 309,557; Jan. 23; Serial No. 341,486; published Nov. 14, 1933. Class 6.
Meterice of America Co., Ltd., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio. Clock and thermostat operated electric switches. 309,635; Jan. 23; Serial No. 322,797; published June 7, 1932. Class 21.
Metro-Goldwyn-Mayer Distributing Corporation, New York, N. Y. Different motion-picture films. 309,667; Jan. 23; Serial No. 341,517; published Nov. 14, 1933. Class 26.
Monumental Perfect Brew Co., Baltimore, Md. Malt beverages. 309,640; Jan. 23; Serial No. 330,755; published Sept. 19, 1933. Class 48.
National Electric Products Corporation, Pittsburgh, Pa. Wires and cables. 309,665; Jan. 23; Serial No. 341,584; published Nov. 7, 1933. Class 21.
National Silk Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. 309,682; Jan. 23; Serial No. 341,801; published Nov. 7, 1933. Class 39.
Nestlé's Milk Products, Inc., New York, N. Y. Food product. 309,599; Jan. 23; Serial No. 340,923; published Nov. 7, 1933. Class 46.
New York Sportswear Co. Inc., New York, N. Y. Blouses and dresses. 309,577; Jan. 23; Serial No. 335,621; published Nov. 14, 1933. Class 39.
Nonaka, Frank M., doing business as F. M. Nonaka and Company, San Francisco, Calif. Artists' paintbrushes. 309,578; Jan. 23; Serial No. 333,599; published Nov. 14, 1933. Class 29.
Outdoor Publishing Co., New York, N. Y. Periodical. 309,660; Jan. 23; Serial No. 341,737; published Nov. 7, 1933. Class 38.
Paramount Laboratories. (See Tietenberg, Emil J.)
Pennsylvania Distilling Co., Inc., Logansport, Pa., and Brooklyn, N. Y. Whisky. 309,654; Jan. 23; Serial No. 341,302; published Nov. 14, 1933. Class 49.
Pond's Extract Company, New York, N. Y. Paper handkerchiefs. 309,636; Jan. 23; Serial No. 327,769; published Nov. 7, 1933. Class 37.
Popsicle Corporation of the United States, The, New York, N. Y. Sticks and/or handles for frozen confections. 309,629; Jan. 23; Serial No. 332,895; published Nov. 14, 1933. Class 13.
Popsicle Corporation of the United States, The, New York, N. Y. Sticks and/or handles for frozen confections. 309,630; Jan. 23; Serial No. 332,893; published Nov. 14, 1933. Class 13.
Prybrands, Inc., Long Island City, N. Y. Razors and razor blades. 309,581; Jan. 23; Serial No. 340,812; published Nov. 14, 1933. Class 23.
Psyl-O-Fig Company. (See Butka-Swartout, Daisy.)
Ric-wIL Company, The, Cleveland, Ohio. Cast iron conduits, metallic sewer drainpipe, etc. 309,697; Jan. 23. Class 13.
Riegel Textile Corporation, New York, N. Y. Shirts. 309,641; Jan. 23; Serial No. 342,137; published Nov. 14, 1933. Class 39.
Ripy, Ernest W., doing business as Ripy Bros. Distillery Co., Lawrenceburg, Ky. Whiskey. 309,710; Jan. 23. Class 49.
Rite Form Corset Co., Inc., The, New York, N. Y. Underwear, corsets, girdles, and brassières. 309,605; Jan. 23; Serial No. 341,515; published Oct. 31, 1933. Class 39.
Rite-Health Research Laboratories. (See Fishgoll, Eugene J.)
Rochester Folding Box Co., The, Rochester, N. Y. Paperboard shipping cases. 309,678; Jan. 23; Serial No. 341,874; published Nov. 14, 1933. Class 2.
Rochester Times-Union Inc., Rochester, N. Y. Title for newspaper sections or features. 309,613; Jan. 23. Serial No. 341,804 published Nov. 14, 1933. Class 38.
Rossie Velvet Company, Mystic, Conn. Pile fabrics. 309,568; Jan. 23; Serial No. 338,908; published Oct. 10, 1933. Class 42.
Roth-Büchner G. m. b. H., Tempelhof, near Berlin, Germany. Razor blades. 309,668; Jan. 23; Serial No. 341,377; published Nov. 14, 1933. Class 23.
Roth, Otto, & Co. Inc., New York, N. Y. Cheese. 309,705; Jan. 23. Class 46.
Rothholz, Wm. A., Co., Inc., New York, N. Y. Linen and cotton piece goods. 309,608; Jan. 23; Serial No. 341,696; published Oct. 31, 1933. Class 42.
Russell-Caraway and Company, New Orleans, La. Face powder, lip stick, face rouge, etc. 309,583; Jan. 23; Serial No. 340,695; published Nov. 14, 1933. Class 6.
Sandel Manufacturing Co., Chicago, Ill. Electric portable lamps. 309,664; Jan. 23; Serial No. 341,589; published Nov. 7, 1933. Class 21.
Sapienza, Rose K., Newark, N. J. Lingerie shoulder straps. 309,602; Jan. 23; Serial No. 341,465; published Nov. 7, 1933. Class 40.
Schuylkill Valley Mills, Inc., Spring City, Pa. Hosiery. 309,634; Jan. 23; Serial No. 330,106; published Nov. 14, 1933. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Silhouettes. 309,574; Jan. 23; Serial No. 336,136; published Nov. 7, 1933. Class 38.
Sherman Paper Products Corporation, Newton, Mass. Paper. 309,625; Jan. 23; Serial No. 342,115; published Nov. 14, 1933. Class 37.
Siemens-Planiawerke A. G. für Kohlefabrikate, Berlin-Lichtenberg, Germany. Electric apparatus, devices, and appliances. 309,631; Jan. 23; Serial No. 331,167; published Nov. 7, 1933. Class 21.
Simmons Company, New York, N. Y. Mattresses. 309,614; Jan. 23; Serial No. 341,877; published Nov. 14, 1933. Class 32.
Sinclair Refining Company, New York, N. Y. Newspaper. 309,612; Jan. 23; Serial No. 341,808; published Nov. 7, 1933. Class 38.
Society of Chemical Industry in Basle, Basel, Switzerland. Paint, enamels, lacquers, and varnishes. 309,592; Jan. 23; Serial No. 340,993; published Nov. 14, 1933. Class 16.

Socony-Vacuum Corporation, New York, N. Y. Substitute for turpentine. 309,616; Jan. 23; Serial No. 341,809; published Nov. 7, 1933. Class 16.
Solar-Sturges Mfg. Co., Melrose Park, Ill. Metal milk cans and beer barrels. 309,716; Jan. 23. Class 2.
Sparrow, Hardwick & Company, Limited, Manchester, England. Cotton piece goods. 309,596; Jan. 23; Serial No. 340,930; published Oct. 31, 1933. Class 42.
Stagg, Geo. T., Co., The, doing business as Kentucky River Distillery, Inc., Frankfort, Ky. Whiskey, brandy, gin, and other potable distilled spirits. 309,657; Jan. 23; Serial No. 341,811; published Oct. 31, 1933. Class 49.
Standard Brands Incorporated, New York, N. Y. Coffee. 309,593; Jan. 23; Serial No. 303,395; published Nov. 7, 1933. Class 46.
Standard Corset Company, The, New York, N. Y. Foundation garments. 309,639; Jan. 23; Serial No. 341,885; published Nov. 7, 1933. Class 39.
Stonewall Cotton Mills, Inc., Stonewall, Miss. Cotton piece goods. 309,601; Jan. 23; Serial No. 341,261; published Nov. 14, 1933. Class 42.
Stotlar-Hagler Drug Co., doing business as Alkets Co., St. Louis, Mo., and Pinckneyville, Ill. Nose and throat drops and cold tablets. 309,670; Jan. 23; Serial No. 341,216; published Nov. 14, 1933. Class 6.
Strong Hewat & Co., Inc., New York, N. Y. Cotton and woolen piece goods. 309,607; Jan. 23; Serial No. 341,594; published Oct. 31, 1933. Class 42.
Studio Cosmetic Co. Ltd., Los Angeles, Calif. Cosmetics, toilet preparations, and medicinal preparations. 309,704; Jan. 23. Class 6.
Swezey, Christopher, Incorporated, Wallingford, Vt. Clothespins. 309,642; Jan. 23; Serial No. 342,172; published Nov. 14, 1933. Class 24.
System Products Co., Chicago, Ill. Liquid cleaner for rugs and carpets. 309,662; Jan. 23; Serial No. 341,668; published Nov. 14, 1933. Class 4.
Talcott, James, Incorporated, New York, N. Y. Magazines. 309,618; Jan. 23; Serial No. 341,814; published Nov. 7, 1933. Class 38.
Tank Car Stations, Inc., Buffalo, N. Y. Oils and greases. 309,669; Jan. 23; Serial No. 341,349; published Nov. 7, 1933. Class 15.
Texas Company, The, New York, N. Y. Automobile supplies and accessories. 309,561; Jan. 23; Serial No. 339,613; published Nov. 14, 1933. Class 85.
Texas Company, The, New York, N. Y. Lubricating oil. 309,559; Jan. 23; Serial No. 341,744; published Nov. 7, 1933. Class 15.
Texas Company, The, New York, N. Y. Wearing apparel. 309,647; Jan. 23; Serial No. 339,614; published Oct. 31, 1933. Class 39.
Tietenberg, Emil J., doing business as Paramount Laboratories, New York, N. Y. Automobile and floor wax polish. 309,580; Jan. 23; Serial No. 340,775; published Nov. 14, 1933. Class 16.
Travelaide, Inc., Chicago, Ill. Maps. 309,695; Jan. 23; Serial No. 341,031; published Nov. 14, 1933. Class 38.
Trop, Morris S., New York, N. Y. Motion picture films. 309,560; Jan. 23; Serial No. 339,442; published Nov. 14, 1933. Class 26.
Turner, Roscoe, Company, doing business as Roscoe Turner, San Francisco, Calif. Storage batteries. 309,672; Jan. 23; Serial No. 341,105; published Nov. 7, 1933. Class 21.
United Feature Syndicate, Inc., New York, N. Y. Comic strip. 309,624; Jan. 23; Serial No. 341,059; published Nov. 7, 1933. Class 38.
United Feature Syndicate, Inc., New York, N. Y. Comic strip. 309,674–5; Jan. 23; Serial Nos. 341,055–6; published Nov. 7, 1933. Class 38.
United Feature Syndicate, Inc., New York, N. Y. Comic strip. 309,676; Jan. 23; Serial No. 341,053; published Nov. 7, 1933. Class 38.
United Feature Syndicate, Inc., New York, N. Y. Comic strip. 309,694; Jan. 23; Serial No. 341,058; published Nov. 7, 1933. Class 38.
United Feature Syndicate, Inc., New York, N. Y. Section or column appearing in a newspaper or periodical. 309,623; Jan. 23; Serial No. 341,062; published Nov. 7, 1933. Class 38.
United Feature Syndicate, Inc., New York, N. Y. Section or column appearing in a newspaper or periodical. 309,693; Jan. 23; Serial No. 341,061; published Nov. 14, 1933. Class 38.
United Feature Syndicate, Inc., New York, N. Y. Series of illustrated topics of interest. 309,673; Jan. 23; Serial No. 341,057; published Nov. 7, 1933. Class 38.
United States Rubber Company, New York, N. Y. Tires. 309,703; Jan. 23. Class 35.
Van Petten, Stacy A., Chicago, Ill. Publication. 309,594; Jan. 23; Serial No. 340,961; published Nov. 7, 1933. Class 38.
Wight, Hanley F., San Diego, Calif. Stories and other published literary articles, books, and pictures. 309,566; Jan. 23; Serial No. 339,053; published Nov. 7, 1933. Class 38.
Wizard, Inc., Chicago, Ill. Touch-up paint enamel. 309,617; Jan. 23; Serial No. 341,848; published Nov. 14, 1933. Class 16.
Woodland Hosiery Mills, Cheltenham, Pa. Hosiery. 309,684; Jan. 23; Serial No. 341,749; published Nov. 7, 1933. Class 39.
Zion, Sol, doing business as Sol Glaser & Co.—Sol Zion & Co. Dept., Philadelphia, Pa. Men's and boys' clothing. 309,715; Jan. 23. Class 39.

LIST OF REGISTRANTS OF LABELS

Abbotts Dairies, Inc., Philadelphia, Pa. Abbotts De Luxe "A" Butter (Unsalted). For Butter. 43,125; Jan. 23.
Abbotts Dairies, Inc., Philadelphia, Pa. Abbotts De Luxe "A" Butter (Pasteurized). For Butter. 43,126; Jan. 23.
Ambassador Beverage Company, Boston, Mass. Ambassador Pale Dry Ginger Ale. For Nonalcoholic Carbonated Beverage. 43,127; Jan. 23.
Applebaum, Rebecca, doing business as Majestic Wine Company, New York, N. Y. Red Peacock. For Extra Dry Carbonated Beverage. 43,128; Jan. 23.
California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Ortho Brand Spot Spray. For Fungicides and Insecticides. 43,129; Jan. 23.
Capital Drug Company, Inc., Augusta, Maine. Dr. Kinsman's Asthmatic Cigarettes. For Cigarettes. 43,130; Jan. 23.
Capital Drug Company, Inc., Augusta, Maine. Dr. Kinsman's Digitalis Compound Tablets. For Tablets. 43,131; Jan. 23.
Capital Drug Company, Inc. Augusta, Maine. Kinsman's Antacid Tablets. For Tablets. 43,132; Jan. 23.
Capital Drug Company, Inc., Augusta, Maine. Dr. Kinsman's Digitalis Compound Tablets. For Tablets. 43,133; Jan. 23.
Chemist Shop, The. (See Grainer, John S.)
Daitch & Company, Boston, Mass. Saxon Brand Shellac. For Shellacs. 43,134; Jan. 23.
Freiberg & Workum Co., The, Cincinnati, Ohio. Highland. For Whiskey. 43,135; Jan. 23.
Garfield Manufacturing Company. (See Johnson, Frederick O.)
Grainer, John S., doing business as The Chemist Shop, Cleveland, Ohio. Janet. For Skin Lotions, Beauty Creams, Hair Tonics, Etc. 43,136; Jan. 23.
Great Falls Breweries, Incorporated, Great Falls, Mont. Great Falls Beer. For Lager Beer. 43,137; Jan. 23.
Hazard Lead Works Inc., The Brooklyn, N. Y. Nofade. For Green for Outside Surfaces, Ready Mixed, Ready for Use. 43,138; Jan. 23.
Iodine Skin Corporation, New York, N. Y. I. S. C. Iodine Skin Compound. For an Iodine Skin Compound. 43,139; Jan. 23.
Johnson, Frederick O., doing business as Garfield Manufacturing Company, Detroit, Mich. June Rain. For Washing Powder. 43,140; Jan. 23.
Kirchman, Max, Cicero, Ill. Yankees National Beer the Finest Brew of 3.2 Healthful—Refreshing. For Beer. 43,141; Jan. 23.
Kurth Company, The, Columbus, Wis. Kurth's Banner Beer. For Beer. 43,142; Jan. 23.
Lee, Geo. H., Company, Omaha, Nebr. The Gizzard Capsule. For Gizzard Capsule. 43,143; Jan. 23.
Majestic Hotel and Bath House Company, Marlin, Tex. Majestic Crystals. For Crystals for Neutralizing Acidity. 43,144; Jan. 23.
Majestic Wine Company. (See Applebaum, Rebecca.)
McCullion, John, & Company, Philadelphia, Pa. Penn Varnish. For Varnishes. 43,145; Jan. 23.
Mexican Distillery Co. S. A., C. Juarez, Chihuahua, Mexico. Pan-American. For Whiskey. 43,146; Jan. 23.
Monteverde & Parodi, Inc., doing business as Palermo Olive Oil Co., San Francisco, Calif. Palermo. For Olive Oil. 43,147; Jan. 23.
Palermo Olive Oil Co. (See Monteverde & Parodi, Inc.)
Petersen, Carl E., Los Angeles, Calif. Polka Dot. For Caramel Chews and Other Candies. 43,148; Jan. 23.
Poirier, Alexander E., doing business as A. P. Poirier Co., Salem, Mass. Starlight Tea. For Tea. 43,149; Jan. 23.
Poirier, Alexander E., doing business as A. P. Poirier Co., Salem, Mass. Morning Star Brand Coffee. For Coffee. 43,150; Jan. 23.
Roach, Hal, Studios, Inc., Culver City, Calif. Little Misses. For Hairpins. 43,151–5; Jan. 23.
Robertson, J. T., Company, Inc., The, Syracuse, N. Y. Bath Flakes. For Bath Flakes. 43,156; Jan. 23.
Salerno-Megowen Biscuit Company, Chicago, Ill. Salerno Butter Cookies. For Cookies. 43,157; Jan. 23.
Salerno-Megowen Biscuit Company, Chicago, Ill. Salerno Graham Crackers. For Graham Crackers. 43,158; Jan. 23.
Salerno-Megowen Biscuit Company, Chicago, Ill. Salerno Saltine Crackers. For Crackers. 43,159; Jan. 23.
Salvatore, Ralph, Glendale, Calif. For Every Finished Surface Use Old Master Re-Nu-Wax for Floors Furniture Automobiles. For a Polishing Wax. 43,160; Jan. 23.
Schein Brothers, Inc., New York, N. Y. Midgets, the Daintiest Earrings Made. For Jewelry. 43,161; Jan. 23.
Shimola & Company, Cleveland, Ohio. Champagne La France. For Champagne. 43,162; Jan. 23.

Shimola & Company, Cleveland, Ohio. American Aristocrat High Life. For Whiskey. 43,163; Jan. 23.
Shimola & Company, Cleveland, Ohio. Old Red White & Blue. For Whiskey. 43,164; Jan. 23.
Sil's Food Co., Oakland, Calif. Sils. For Canned Stringless Beans. 43,165; Jan. 23.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. Martha's Quilt Batt. For Quilting Cotton. 43,166; Jan. 23.
Union Bag & Paper Corporation, New York, N. Y. Coffee. For Coffee. 43,167; Jan. 23.
Webb, Frances S., doing business as Webb Chemical Company, Osceola, Ark. Sheddan's. For Croup and Pneumonia Salve and Antimalaria Capsules. 43,168; Jan. 23.
Wesco Foods Company, Cincinnati, Ohio. Michigan Maid Country Roll Butter. For Butter. 43,169; Jan. 23.
Windsor-Lloyd Products, Inc., Wilmington, Del. Windsor. For Fan Belts. 43,170; Jan. 23.

LIST OF REGISTRANTS OF PRINTS

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Kill Garden Pests—Ortho Brand—Garden Volck Spray. For Insecticides and Fungicides. 14,511; Jan. 23.
Cream of Wheat Corporation, The, Minneapolis, Minn. Half the Diseases that Threaten Him—Are Linked with Simple Digestive Disturbances. For Wheat Breakfast Food. 14,512; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Now! Have Perfect Biscuits. For Biscuit Flour. 14,513; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Why We Can No Longer Laugh at "Brides' Biscuits". For Biscuit Flour. 14,514; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Science's Latest Development to Smooth the Path of the Bride. For Biscuit Flour. 14,515; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Science Dispels a Comical Fear of Bridegrooms! For Biscuit Flour. 14,516; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Remarkable New Discovery a Boon to Brides! For Biscuit Flour. 14,517; Jan 23.
General Mills, Inc., Minneapolis, Minn. Betty Crocker 13-Egg Angel Food. For Flour. 14,518; Jan. 23.
General Mills, Inc., Minneapolis, Minn. One Way to Keep a Man at the Table is to Serve Him Hot Biscuits. For Biscuit Flour. 14,519; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Don't Worry About Your Party—the Smart Thing to Serve Today is Hot Biscuits. For Biscuit Flour. 14,520; Jan. 23.
General Mills, Inc., Minneapolis, Minn. The Easiest Way to Make a Man Brighten up at Dinner is to Put Hot Biscuits on the Table. For Biscuit Flour. 14,521; Jan. 23.
General Mills, Inc., Minneapolis, Minn. The Man Isn't Born Who Doesn't Love Hot Biscuits—Try a Batch Tonight and See! For Biscuit Flour. 14,522; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Women! Accept Free This New $25,000 "Kitchen-Tested" Recipe Set. For Flour. 14,523; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Jack Dempsey. For Cereal Food. 14,524; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Calls Bisquicks Hot Weather "Wife-Savers"! For Biscuit Flour. 14,525; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Please Accept Free This New "Kitchen-Tested" Recipe Set Costing $25,000! Chilled Pineapple Pie. For Flour. 14,526; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Babe Ruth. For Cereal Food. 14,527; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Women! This Lovely Teaspoon Given Free. For Flour. 14,528; Jan. 23.
General Mills, Inc., Minneapolis, Minn. We Paid $25,000 To Give You This New "Kitchen-Tested" Recipe Set Free! Ambassador Black Bottom Pie. For Flour. 14,529; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Mrs. Daughter-in-Law Discovers Biscuicks, Etc. For Biscuit Flour. 14,530; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Betty Crocker and Your Baker Share This Triumph! For Flour. 14,531; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Johnny (Tarzan) Weismuller Solves the Breakfast Problem for the Smiths. For Cereal Food. 14,532; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Modern Molly and How a Remarkable Free Book Solved One Problem of Married Life Early in the Game for Her. For Biscuit Flour. 14,533; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Wins an Old Bet with Bisquicks. For Biscuit Flour. 14,534; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Accept Free, Please, This New $25,000 "Kitchen-Tested" Recipe Set! Haddon Hall Gingerbread. For Flour. 14,535; Jan. 23.
General Mills, Inc., Minneapolis, Minn. Free! $5,000.00 in Cash for Naming This Latest Betty Crocker Cake. For Flour. 14,536; Jan. 23.
Haase, Wilbert W., Co., Forest Park, Ill. The Wilbert. For Cement Burial Vaults. 14,537; Jan. 23.
Holeproof Hosiery Co., Milwaukee, Wis. Holeproof Hosiery. For Hosiery. 14,538; Jan. 23.
Kimball, H. B., Milwaukee, Wis. Nine Reasons Why Kimball's Tablets are Superior. For Stomach Tablets. 14,539; Jan. 23.
Peerless Comforter Mfg. Co. (See Rothchild, Isidor.)
Rothchild, Isidor, doing business as Peerless Comforter Mfg. Co., West Los Angeles, and Hollywood, Calif. Design for Down Filled Comforters. For Comforters. 14,540; Jan. 23.
Thorobread Company, Cincinnati, Ohio. Thorobread. For Dog Soap. 14,541; Jan. 23.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Clay, Modeling. Etti Studios, Incorporated. 309,688; Jan. 23; Serial No. 341,323; published Nov. 14, 1933.

CLASS 2

Cans and beer barrels Metal milk. Solar-Sturges Mfg. Co. 309,716; Jan. 23.
Cases, Paperboard shipping. Rochester Folding Box Co. 309,678; Jan. 23; Serial No. 341,874; published Nov. 14, 1933.

CLASS 4

Cleaner for rugs and carpets, Liquid. System Products Co. 309,662; Jan. 23; Serial No. 341,668; published Nov. 14, 1933.

CLASS 6

Astringents, beauty creams, powders, etc. W. J. Bush & Co. Inc. 309,696; Jan. 23.
Castor oil, turpentine, tincture iodine, etc. E. J. Fishgoll. 309,711; Jan. 23.
Cosmetics toilet preparations, and medicinal preparations. Studio Cosmetic Co. 309,704; Jan. 23.
Cosmetics, toiletries, beauty preparations, and accessories. Charm Products Incorporated. 309,570; Jan. 23; Serial No. 338,123; published Nov. 14, 1933.
Glandular product used for treatment of functional uterine disorders. Wm. S. Merrell Company. 309,557; Jan. 23; Serial No. 341,486; published Nov. 14, 1933.
Laxative mixture. D. Butka-Swartout. 309,661; Jan. 23. Serial No. 341,673; published Nov. 14, 1933.
Medicines, Dog. Animal Foods Company. 309,699; Jan. 23.
Nose and throat drops and cold tablets. Stotlar-Hagler Drug Co. 309,670; Jan. 23; Serial No. 341,216; published Nov. 14, 1933.
Powder, lip stick, face rouge, etc., Face. Russell-Caraway and Company. 309,583; Jan. 23; Serial No. 340,695; published Nov. 14, 1933.
Preparation for stimulating the growth of hair. J. E. McBrady. 309,706; Jan. 23.

CLASS 10

Fertilizers. Franz Haniel & Cie Gesellschaft mit beschränkter Haftung Zweigniederlassung Mannheim. 309,677; Jan. 23; Serial No. 341,650; published Nov. 14, 1933.

CLASS 13

Conduits, metallic sewer drainpipe, etc., Cast iron. Ric-Wil Company. 309,697; Jan. 23.
Metal holders for price cards for indicating the price of an article. W. Griesbach. 309,689; Jan. 23; Serial No. 341,165; published Nov. 14, 1933.
Sticks and/or handles for frozen confections. Popsicle Corporation of the United States. 309,629; Jan. 23; Serial No. 332,895; published Nov. 14, 1933.
Sticks and/or handles for frozen confections. Popsicle Corporation of the United States. 309,630; Jan. 23; Serial No. 332,893; published Nov. 14, 1933.

CLASS 15

Oils and greases. Tank Car Stations, Inc. 309,669; Jan. 23; Serial No. 341,349; published Nov. 7, 1933.
Oil, Lubricating. Texas Company. 309,559; Jan. 23; Serial No. 341,744; published Nov. 7, 1933.

CLASS 16

Coating for laboratory table tops, Protective. L. S. Campbell. 309,558; Jan. 23; Serial No. 341,392; published Nov. 14, 1933.

Paint enamel, Touch-up. Wizard, Inc. 309,617; Jan. 23; Serial No. 341,848; published Nov. 14, 1933.
Paint enamels, lacquers, and varnishes. Society of Chemical Industry in Basle. 309,592; Jan. 23; Serial No. 340,993; published Nov. 14, 1933.
Paint or enamel. M. J. Merkin Paint Co. Inc. 309,590; Jan. 23; Serial No. 340,822; published Nov. 14, 1933.
Paints and wall coatings, Alabastine Company. 309,671; Jan. 23; Serial No. 341,188; published Nov. 14, 1933.
Paints, paint enamels, varnishes, etc. Martin-Senour Company. 309,663; Jan. 23; Serial No. 341,636; published Nov. 14, 1933.
Polish. G. H. Deters. 309,619; Jan. 23; Serial No. 341,917; published Nov. 14, 1933.
Turpentine, Substitute for. Socony-Vacuum Corporation. 309,616; Jan. 23; Serial No. 341,809; published Nov. 7, 1933.
Wax polish, Automobile and floor. E. J. Tietenberg. 309,580; Jan. 23; Serial No. 340,775; published Nov. 14, 1933.

CLASS 19

Seat covers, Automobile. Lipschultz Bros. Inc. 309,701; Jan. 23.

CLASS 21

Batteries, Storage. Roscoe Turner Company. 309,672; Jan. 23; Serial No. 341,105; published Nov. 7, 1933.
Electric apparatus, devices, and appliances. Siemens-Plania werke A. G. für Kohlefabrikate. 309,631; Jan. 23; Serial No. 331,167; published Nov. 7, 1933.
Electric portable lamps. Sandel Manufacturing Co. 309,664; Jan. 23; Serial No. 341,589; published Nov. 7, 1933.
Electric switches, Clock and thermostat operated. Meterice of America Co. 309,635; Jan. 23; Serial No. 322,797; published June 7, 1932.
Electrically driven devices, Portable. A. C. Gilbert Company. 309,576; Jan. 23; Serial No. 334,679; published Apr. 11, 1933.
Radio receiving sets. L. D. Mendez. 309,650; Jan. 23; Serial No. 338,982; published Nov. 14, 1933.
Tubes, Electric discharge. M. O. Valve Company Limited. 309,575; Jan. 23; Serial No. 336,550; published Nov. 7, 1933.
Wires and cables. National Electric Products Corporation. 309,665; Jan. 23; Serial No. 341,584; published Nov. 7, 1933.

CLASS 23

Plows, moldboards, landsides, etc. C. Billups, Son & Company. 309,644; Jan. 23; Serial No. 339,926; published Nov. 14, 1933.
Razor blades. McKesson & Robbins, Incorporated. 309,666; Jan. 23; Serial No. 341,583; published Nov. 14, 1933.
Razor blades. Roth-Büchner G. m. b. H. 309,668; Jan. 23; Serial No. 341,377; published Nov. 14, 1933.
Razors and razor blades. Prybrands, Inc. 309,581; Jan. 23; Serial No. 340,812; published Nov. 14, 1933.

CLASS 24

Clothespins. Christopher Swezey, Incorporated. 309,642; Jan. 23; Serial No. 342,172; published Nov. 14, 1933.

CLASS 26

Films, Different motion-picture. Metro-Goldwyn-Mayer Distributing Corporation. 309,667; Jan. 23; Serial No. 341,517; published Nov. 14, 1933.
Films, Motion picture. M. S. Trop. 309,560; Jan. 23; Serial No. 339,442; published Nov. 14, 1933.

CLASS 27

Springs for watches, Hair. Heraeus-Vacuumschmelze Aktiengesellschaft. 309,582; Jan. 23; Serial No. 340,504; published Nov. 14, 1933.

CLASS 29

Brushes, Artists' paint. F. M. Nonaka. 309,578; Jan. 23; Serial No. 333,599; published Nov. 14, 1933.

CLASS 32

Frames, Picture, Design Engineers, Incorporated. 309,579; Jan. 23; Serial No. 333,351; published Nov. 14, 1933.
Mattresses, Cold Blast Feather Co. 309,603; Jan. 23; Serial No. 341,424; published Nov. 14, 1933.
Mattresses, Simmons Company. 309,614; Jan. 23; Serial No. 341,877; published Nov. 14, 1933.

CLASS 35

Automobile supplies and accessories. Texas Company. 309,561; Jan. 23; Serial No. 339,613; published Nov. 14, 1933.
Patches for pneumatic automobile tires. Fidelity Manufacturing Co. 309,638; Jan. 23; Serial No. 319,811; published Nov. 14, 1933.
Tires. United States Rubber Company. 309,703; Jan. 23.

CLASS 36

Phonographs and parts thereof and phonograph records. Jenkins & Adair, Inc. 309,562; Jan. 23; Serial No. 339,316; published Nov. 7, 1933.
Phonographs and parts thereof and records. Jenkins & Adair, Inc. 309,565; Jan. 23; Serial No. 339,315; published Nov. 7, 1933.

CLASS 37

Book, Physician's record and account. Colwell Publishing Company. 309,610; Jan. 23; Serial No. 341,758; published Nov. 14, 1933.
Crayons, Chalk. Binney & Smith Co. 309,700; Jan. 23.
Paper. Sherman Paper Products Corporation. 309,625; Jan. 23; Serial No. 342,115; published Nov. 14, 1933.
Paper handkerchiefs. Pond's Extract Company. 309,636; Jan. 23; Serial No. 327,769; published Nov. 7, 1933.
Paper, Ledger and bond. Byron Weston Company. 309,611; Jan. 23; Serial No. 341,754; published Nov. 14, 1933.
Sheets, Loose-leaf. Cott Printing and Index Company. 309,648; Jan. 23; Serial No. 339,700; published Nov. 7, 1933.
Sheets, Music lesson. M. Dollinger. 309,569; Jan. 23; Serial No. 338,970; published Nov. 14, 1933.

CLASS 38

Comic strip. United Feature Syndicate, Inc. 309,624; Jan. 23; Serial No. 341,059; published Nov. 7, 1933.
Comic strip. United Feature Syndicate, Inc. 309,674–5; Jan. 23; Serial Nos. 341,055–6; published Nov. 7, 1933.
Comic strip. United Feature Syndicate, Inc. 309,676; Jan. 23; Serial No. 341,053; published Nov. 7, 1933.
Comic strip. United Feature Syndicate, Inc. 309,694; Jan. 23; Serial No. 341,058; published Nov. 7, 1933.
Heading or caption for newspaper articles. Chronicle Publishing Company. 309,606; Jan. 23; Serial No. 341,620; published Nov. 14, 1933.
Magazine. Bunting's Novelty Mart. 309,600; Jan. 23; Serial No. 341,391; published Nov. 7, 1933.
Magazine. Exhaust Publishing Co. 309,626; Jan. 23; Serial No. 342,070; published Nov. 14, 1933.
Magazine. Macfadden Publications, Inc. 309,691; Jan. 23; Serial No. 341,131; published Nov. 14, 1933.
Magazine. James Talcott, Incorporated. 309,618; Jan. 23; Serial No. 341,814; published Nov. 7, 1933.
Maps. Travelaide, Inc. 309,695; Jan. 23; Serial No. 341,031; published Nov. 14, 1933.
Newspaper. Sinclair Refining Company. 309,612; Jan. 23; Serial No. 341,808; published Nov. 7, 1933.
Periodical. Outdoor Publishing Co. 309,660; Jan. 23; Serial No. 341,737; published Nov. 7, 1933.
Publication. Haire Publishing Company. 309,646; Jan. 23; Serial No. 339,722; published Nov. 7, 1933.
Publication. Manufacturers Aircraft Association, Inc. 309,640; Jan. 23; Serial No. 342,119; published Nov. 14, 1933.
Publication. S. A. Van Petten. 309,594; Jan. 23; Serial No. 340,961; published Nov. 7, 1933.
Section in monthly magazine. Ahrens Publishing Co. 309,628; Jan. 23; Serial No. 341,152; published Nov. 7, 1933.
Section of a publication. Haire Publishing Company. 309,645; Jan. 23; Serial No. 339,721; published Nov. 14, 1933.
Section or column appearing in a newspaper or periodical. United Feature Syndicate, Inc. 309,623; Jan. 23; Serial No. 341,062; published Nov. 7, 1933.
Section or column appearing in a newspaper or periodical. United Feature Syndicate, Inc. 309,693; Jan. 23; Serial No. 341,061; published Nov. 14, 1933.
Series of illustrated topics of interest. United Features Syndicate, Inc. 309,673; Jan. 23; Serial No. 341,057; published Nov. 7, 1933.
Silhouettes. Sears, Roebuck and Co. 309,574; Jan. 23; Serial No. 336,136; published Nov. 7, 1933.
Stories and other published literary articles, books, and pictures. H. F. Wight. 309,566; Jan. 23; Serial No. 339,053; published Nov. 7, 1933.
Title for newspaper sections or features. Rochester Times-Union Inc. 309,613; Jan. 23; Serial No. 341,804; published Nov. 14, 1933.

CLASS 39

Apparel, Wearing. Texas Company. 309,647; Jan. 23; Serial No. 339,614; published Oct. 31, 1933.
Apparel, Women's. Aronson-Caplin Company. 309,708; Jan. 23.
Blouses and dresses. New York Sportswear Co. Inc. 309,577; Jan. 23; Serial No. 335,621; published Nov. 14, 1933.
Blouses, Women's. King & Alpert. 309,659; Jan. 23; Serial No. 341,023; published Nov. 7, 1933.
Coats, vests, pants, etc. Fashion Park Associates, Inc. 309,702; Jan. 23.
Clothing, Men's and boys'. S. Zion. 309,715; Jan. 23.
Corsets and brassières. Fay-Miss Brassiere Co. Inc. 309,567; Jan. 23; Serial No. 339,267; published Oct. 31, 1933.
Corsets and corselets. L. L. Carnall. 309,637; Jan. 23; Serial No. 319,308; published Nov. 14, 1933.
Corsets, corselets, brassières, and girdles. Leading Brassiere Co. 309,627; Jan. 23; Serial No. 341,207; published Nov. 7, 1933.
Cravats and ties. S. Goidl. 309,595; Jan. 23; Serial No. 340,962; published Nov. 14, 1933.
Dresses. Brown Durrell Co. 309,584; Jan. 23; Serial No. 340,216; published Nov. 14, 1933.

Dresses and frocks. L. Gidding & Co. Inc. 309,571; Jan. 23; Serial No. 338,300; published Oct. 31, 1933.
Dresses and nurses' and maids' uniforms, Wrap-around. Blue Bird Uniform Company. 309,686; Jan. 23; Serial No. 341,541; published Nov. 14, 1933.
Dresses, suits, sweaters, blouses. S. Augstein & Co. 309,591; Jan. 23; Serial No. 340,860; published Nov. 14, 1933.
Dresses, suits, sweaters, blouses. S. Augstein & Co. 309,622; Jan. 23; Serial No. 341,112; published Nov. 14, 1933.
Dresses, suits, sweaters, blouses. S. Augstein & Co. 309,687; Jan. 23; Serial No. 341,270; published Nov. 14, 1933.
Dresses, suits, sweaters, blouses. S. Augstein & Co. 309,690; Jan. 23; Serial No. 341,269; published Nov. 14, 1933.
Garments. Foundation. Standard Corset Company. 309,639; Jan. 23; Serial No. 341,885; published Nov. 7, 1933.
Garments, Outer. Cohen, Goldman & Co. 309,685; Jan. 23; Serial No. 341,320; published Nov. 14, 1933.
Girdles, brassières, and corsets. Kops Brothers, Inc. 309,643; Jan. 23; Serial No. 339,727; published Oct. 31, 1933.
Hosiery. Gray-Line Hosiery Company. 309,681; Jan. 23; Serial No. 341,761; published Nov. 7, 1933.
Hosiery. National Silk Hosiery Mills, Inc. 309,682; Jan. 23; Serial No. 341,801; published Nov. 7, 1933.
Hosiery. Schuylkill Valley Mills, Inc. 309,634; Jan. 23; Serial No. 330,106; published Nov. 14, 1933.
Hosiery. Woodland Hosiery Mills. 309,684; Jan. 23; Serial No. 341,749; published Nov. 7, 1933.
Hosiery, Silk. H. J. Gilman. 309,589; Jan. 23; Serial No. 340,874; published Oct. 31, 1933.
Millinery. Chic Hat Company. 309,563; Jan. 23; Serial No. 339,421; published Nov. 14, 1933.
Neckties, Four-in-hand. Brown & Wells, Inc. 309,692; Jan. 23; Serial No. 341,158; published Nov. 7, 1933.
Shirts. Riegel Textile Corporation. 309,641; Jan. 23; Serial No. 342,137; published Nov. 14, 1933.
Shoes. Best & Co. 309,585; Jan. 23; Serial No. 340,304; published Oct. 31, 1933.
Sportswear for women, Knitted. S. Freeman. 309,712; Jan. 23.
Suits, topcoats, and overcoats. H. Daroff & Sons, Inc. 309,679; Jan. 23; Serial No. 341,915; published Nov. 14, 1933.
Suits, topcoats, and overcoats. H. Daroff & Sons, Inc. 309,680; Jan. 23; Serial No. 341,916; published Nov. 7, 1933.
Underwear, corsets, girdles, and brassières. Rite Form Corset Co. 309,605; Jan. 23; Serial No. 341,515; published Oct. 31, 1933.

CLASS 40

Buttons and buckles. Lindenhurst Manufacturing Company. 309,615; Jan. 23; Serial No. 341,869; published Nov. 14, 1933.
Hairpins, combs, wavers, crimpers, and curlers. H. Goodman & Sons, Inc. 309,609; Jan. 23; Serial No. 341,653; published Nov. 7, 1933.
Straps, Lingerie shoulder. R. K. Saplenza. 309,602; Jan. 23; Serial No. 341,465; published Nov. 7, 1933.

CLASS 42

Cotton and woolen piece goods. Strong Hewat & Co. 309,607; Jan. 23; Serial No. 341,594; published Oct. 31, 1933.
Cotton piece goods. Sparrow Hardwick & Company Limited. 309,596; Jan. 23; Serial No. 340,930; published Oct. 31, 1933.
Cotton piece goods. Stonewall Cotton Mills, Inc. 309,601; Jan. 23; Serial No. 341,261; published Nov. 14, 1933.
Drapes, Window. F. McGarry. 309,604; Jan. 23; Serial No. 341,533; published Nov. 14, 1933.
Linen and cotton piece goods. Wm. A. Rothhols Co. 309,608; Jan. 23; Serial No. 341,696; published Oct. 31, 1933.
Piece goods. American Woolen Company. 309,621; Jan. 23; Serial No. 341,035; published Oct. 31, 1933.
Piece goods made of cellulose derivatives. Celanese Corporation of America. 309,597; Jan. 23; Serial No. 340,948; published Oct. 31, 1933.
Piece goods of cellulose derivatives. Celanese Corporation of America. 309,633; Jan. 23; Serial No. 329,324; published Oct. 31, 1933.
Pile fabrics. Rossie Velvet Company. 309,568; Jan. 23; Serial No. 338,908; published Oct. 10, 1933.
Pile fabrics in the piece. Sidney Blumenthal & Co. Inc. 309,572; Jan. 23; Serial No. 337,012; published Oct. 31, 1933.

CLASS 44

Eyelash curlers. Buti-Lash Co. 309,620; Jan. 23; Serial No. 341,911; published Nov. 14, 1933.

CLASS 45

Beverages, Maltless. J. T. Burdashaw. 309,709; Jan. 23.

CLASS 46

Canned fish. McGovern & McGovern. 309,598; Jan. 23; Serial No. 340,889; published Nov. 7, 1933.
Canned fruits, vegetables and fish, tea, etc. A. Fink & Son, Inc. 309,564; Jan. 23; Serial No. 339,268; published Nov. 7, 1933.
Cereal product. Cornell Research Foundation, Inc. 309,586–7; Jan. 23; Serial Nos. 340,156–7; published Nov. 7, 1933.
Cheese. Otto Roth & Co. Inc. 309,705 Jan. 23.
Cocoa and chocolate. A. N. Alexander. 309,632; Jan. 23; Serial No. 331 942; published Nov. 7, 1933.
Coffee. Standard Brands Incorporated. 309,593; Jan. 23; Serial No. 303,395; published Nov. 7, 1933.
Food, Bird. Hartz Mountain Products Inc. 309,717; Jan. 23.
Food product. Nestlé's Milk Products, Inc. 309,599; Jan. 23; Serial No. 340 923; published Nov. 7, 1933.
Hams. Jones Dairy Farm, Inc. 309,573; Jan. 23; Serial No. 337,036; published Nov. 7, 1933.

CLASS 47

Wines. Grierson, Oldham & Co. 309,588; Jan. 23; Serial No. 340,738; published Nov. 14, 1933.
Wines. E. A. Groezinger. 309,707; Jan. 23.

CLASS 48

Beer. Hollenbru Inc. 309 683; Jan. 23; Serial No. 341,628; published Nov. 14, 1933.
Malt beverage. Kasko Products Co. 309,698; Jan. 23.
Malt beverages. Monumental Perfect Brew Co. 309,619; Jan. 23; Serial No. 339,755; published Sept. 19, 1933.

CLASS 49

Brandy, rum, whisky, and gin. Grierson, Oldham & Co. 309,603; Jan. 23; Serial No. 340,740; published Nov. 14, 1933.
Gin and other potable distilled liquors. C. H. Graves & Sons Company. 309,653; Jan. 23; Serial No. 341,400; published Nov. 14, 1933.
Whisky. George Benz Sons, Inc. 309,651; Jan. 23; Serial No. 341 230; published Oct. 17, 1933.
Whisky. Jos. S. Finch & Company. 309,714; Jan. 23.
Whisky. Pennsylvania Distilling Co. 309,654; Jan. 23; Serial No. 341,302; published Nov. 14, 1933.
Whisky. T. W. Ripy. 309,710; Jan. 23.
Whisky, brandy, gin, and other potable distilled spirits. Jos. S. Finch & Company. 309,655; Jan. 23; Serial No. 341,793; published Oct. 31, 1933.
Whisky, brandy, gin, and other potable distilled spirits. Jos. S. Finch & Company. 309,658; Jan. 23; Serial No. 341,794; published Oct. 31, 1933.
Whisky, brandy, gin, and other potable distilled spirits. Jos. S. Finch & Company. 309,713; Jan. 23.
Whisky, brandy, gin, and other potable distilled spirits. Geo. T. Stagg Co. 309,657; Jan. 23; Serial No. 341,811; published Oct. 31, 1933.
Whisky, gin, and other potable distilled liquors. C. H. Graves & Sons Company. 309,656; Jan. 23; Serial No. 341,520; published Nov. 14, 1933.

LIST OF LABELS

Abbotts De Luxe "A" Butter (Pasteurized). For Butter. Abbotts Dairies, Inc. 43,126; Jan. 23.
Abbotts De Luxe "A" Butter (Unsalted). For Butter. Abbotts Dairies, Inc. 43,125; Jan. 23.
Ambassador Pale Dry Ginger Ale. For Nonalcoholic Carbonated Beverage. Ambassador Beverage Company. 43,127; Jan. 23.
American Aristocrat High Life. For Whiskey. Shimola & Company. 43,163; Jan. 23.
Bath Flakes. For Bath Flakes. J. T. Robertson Company. 43,156; Jan. 23.
Champagne La France. For Champagne. Shimola & Company. 43,162; Jan. 23.
Coffee. For Coffee. Union Bag & Paper Corporation. 43,167; Jan. 23.
Dr. Kinsman's Asthmatic Cigarettes. For Cigarettes. Capital Drug Company. 43,130; Jan. 23.
Dr. Kinsman's Digitalis Compound Tablets. For Tablets. Capital Drug Company. 43,131; Jan. 23.
Dr. Kinsman's Digitalis Compound Tablets. For Tablets. Capital Drug Company. 43,133; Jan. 23.
For Every Finished Surface Use Old Master Re-Nu-Wax for Floors Furniture Automobiles. For a Polishing Wax. R. Salvatore. 43,160; Jan. 23.
Great Falls Beer. For Lager Beer. Great Falls Breweries, Incorporated. 43,137; Jan. 23.
Highland. For Whiskey. Freiberg & Workum Co. 43,135; Jan. 23.
I. S. C. Iodine Skin Compound. For an Iodine Skin Compound. Iodine-Skin Corporation. 43,139; Jan. 23.
Janet. For Skin Lotions, Beauty Creams, Hair Tonics, Etc. J. S. Grainer. 43,136; Jan. 23.
June Rain. For Washing Powder. F. O. Johnson. 43,140; Jan. 23.
Kinsman's Antacid Tablets. For Tablets. Capital Drug Company. 43,132; Jan. 23.
Kurth's Banner Beer. For Beer. Kurth Company. 43,142; Jan. 23.

Little Misses. For Hairpins. Hal Roach Studios, Inc. 43,151–5; Jan. 23.
Majestic Crystals. For Crystals for Neutralizing Acidity. Majestic Hotel and Bath House Company. 43,144; Jan. 23.
Martha's Quilt Batt. For Quilting Cotton. Stearns & Foster Co. 43,166; Jan. 23.
Michigan Maid Country Roll Butter. For Butter. Wesco Foods Company. 43,169; Jan. 23.
Midgets, the Daintiest Earrings Made. For Jewelry. Schein Brothers, Inc. 43,161; Jan. 23.
Morning Star Brand Coffee. For Coffee. A. E. Poirier. 43,150; Jan. 23.
Nofade. For Green for Outside Surfaces, Ready Mixed, Ready for Use. Hazard Lead Works Inc. 43,138; Jan. 23.
Old Red White & Blue. For Whiskey. Shimola & Company. 43,164; Jan. 23.
Ortho Brand Spot Spray. For Fungicides and Insecticides. California Spray-Chemical Corporation. 43,129; Jan. 23.
Palermo. For Olive Oil. Monteverde & Parodi, Inc. 43,147; Jan. 23.
Pan-American. For Whiskey. Mexican Distillery Co. S. A. 43,146; Jan. 23.
Penn Varnish. For Varnishes. John McCullion & Company. 43,145; Jan. 23.
Polka Dot. For Caramel Chews and Other Candies. C. E. Petersen. 43,148; Jan. 23.
Red Peacock. For Extra Dry Carbonated Beverage. R. Applebaum. 43,128; Jan. 23.
Salerno Butter Cookies. For Cookies. Salerno-Megowen Biscuit Company. 43,157; Jan. 23.
Salerno Graham Crackers. For Graham Crackers. Salerno-Megowen Biscuit Company. 43,158; Jan. 23.
Salerno Saltine Crackers. For Crackers. Salerno-Megowen Biscuit Company. 43,159; Jan. 23.
Saxon Brand Shellac. For Shellacs. Daitch & Company. 43,134; Jan. 23.
Sheddan's. For Croup and Pneumonia Salve and Antimalaria Capsules. F. S. Webb. 43,168; Jan. 23.
Sils. For Canned Stringless Beans. Sil's Food Co. 43,165; Jan. 23.
Starlight Tea. For Tea. A. E. Poirier. 43,149; Jan. 23.
The Gizzard Capsule. For Gizzard Capsule. Geo. H. Lee Company. 43,143; Jan. 23.
Windsor. For Fan Belts. Windsor-Lloyd Products, Inc. 43,170; Jan. 23.
Yankees National Beer the Finest Brew of 3.2 Healthful—Refreshing. For Beer. M. Kirchman. 43,141; Jan. 23.

LIST OF PRINTS

Accept Free, Please, This New $25,000 "Kitchen-Tested" Recipe Set! Hadden Hall Gingerbread. For Flour. General Mills, Inc. 14,535; Jan. 23.
Babe Ruth. For Cereal Food. General Mills, Inc. 14,527; Jan. 23.
Betty Crocker and Your Baker Share This Triumph! For Flour. General Mills, Inc. 14,531; Jan. 23.
Betty Crocker 13-Egg Angel Food. For Flour. General Mills, Inc. 14,518; Jan. 23.
Calls Bisquicks Hot Weather "Wife-Savers"! For Biscuit Flour. General Mills, Inc. 14,525; Jan. 23.
Design for Down Filled Comforters. For Comforters. I. Rothchild. 14,540; Jan. 23.
Don't Worry About Your Party—the Smart Thing to Serve Today is Hot Biscuits. For Biscuit Flour. General Mills, Inc. 14,520; Jan. 23.
Free! $5,000.00 in Cash for Naming This Latest Betty Crocker Cake! For Flour. General Mills, Inc. 14,536; Jan. 23.
Half the Diseases That Threaten Him—are Linked with Simple Digestive Disturbances. For Wheat Breakfast Food. Cream of Wheat Corporation. 14,512; Jan. 23.
Holeproof Hosiery. For Hosiery. Holeproof Hosiery Co. 14,538; Jan. 23.
Jack Dempsey. For Cereal Food. General Mills, Inc. 14,524; Jan. 23.
Johnny (Tarzan) Weismuller Solves the Breakfast Problem for the Smiths. For Cereal Food. General Mills, Inc. 14,532; Jan. 23.
Kill Garden Pests—Ortho Brand—Garden Volck Spray. For Insecticides and Fungicides. California Spray-Chemical Corporation. 14,511; Jan. 23.
Modern Milly and How a Remarkable Free Book Solved One Problem of Married Life Early in the Game for Her. For Biscuit Flour. General Mills, Inc. 14,533; Jan. 23.
Mrs. Daughter-in-Law Discovers Bisquicks, Etc. For Biscuit Flour. General Mills, Inc. 14,530; Jan. 23.
Nine Reasons Why Kimball's Tablets are Superior. For Stomach Tablets. H. B. Kimball. 14,539; Jan. 23.
Now! Have Perfect Biscuits. For Biscuit Flour. General Mills, Inc. 14,513; Jan. 23.
One Way to Keep a Man at the Table is to Serve Him Hot Biscuits. For Biscuit Flour. General Mills, Inc. 14,519; Jan. 23.
Pease Accept Free This New "Kitchen-Tested" Recipe Set Costing $25,000! Chilled Pineapple Pie. For Flour. General Mills, Inc. 14,526; Jan. 23.
Remarkable New Discovery a Boon to Brides! For Biscuit Flour. General Mills, Inc. 14,517; Jan. 23.
Science Dispels a Comical Fear of Bridegrooms! For Biscuit Flour. General Mills, Inc. 14,516; Jan. 23.
Science's Latest Development to Smooth the Path of the Bride. For Biscuit Flour. General Mills, Inc. 14,515; Jan. 23.
The Easiest Way to Make a Man Brighten Up at Dinner is to Put Hot Biscuits on the Table. For Biscuit Flour. General Mills, Inc. 14,521; Jan. 23.
The Man Isn't Born Who Doesn't Love Hot Biscuits—Try a Batch Tonight and See! For Hot Biscuits. General Mills, Inc. 14,522; Jan. 23.
The Wilbert. For Cement Burial Vaults. Wilbert W. Chaase Co. 14,537; Jan. 23.
Thorobread. For Dog Soap. Thorobread Company. 14,541; Jan. 23.
We Paid $25,000 to Give You This New "Kitchen-Tested" Recipe Set Free! Ambassador Black Bottom Pie. For Flour. General Mills, Inc. 14,529; Jan. 23.
Why We Can No Longer Laugh at "Brides' Biscuits". For Biscuit Flour. General Mills, Inc. 14,514; Jan. 23.
Wins an Old Bet with Bisquicks. For Biscuit Flour. General Mills, Inc. 14,534; Jan. 23.
Women! Accept Free This New $25,000 "Kitchen-Tested" Recipe Set. For Flour. General Mills, Inc. 14,523; Jan. 23.
Women! This Lovely Teaspoon Given Free. For Flour. General Mills, Inc. 14,528; Jan. 23.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Adrian O., jr., Grosse Pointe Park, assignor to Morgan & Wright, Detroit, Mich. Manufacturing tires. 1,944,389; Jan. 23.

Abingdon Sanitary Mfg. Co. (See Simpson, James, assignor.)

Aceves, Rubén, New York, N. Y. Electrical conductor. 1,944,390; Jan. 23.

Acme Hough Manufacturing Company. (See Ellis, John, assignor.)

Adlake Company, The. (See Hamm, William S., assignor.)

Aemisegger, Jean, Bergenfield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn. Textile fabric. Des. 91,383; Jan. 23.

Aemisegger, Jean, Bergenfield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn. Textile fabric. Des. 91,401; Jan. 23.

Aerial Advertising Company. (See Moir, Kenneth N., assignor.)

Aiken, James, Forest Hill, N. Y. Cooling device. 1,944,726; Jan. 23.

Ajello, Gaetano, New York, N. Y. Safety device for aircraft. 1,944,484; Jan. 23.

Aktiengesellschaft Brown, Boveri and Cie. (See Meyer, Adolf, assignor.)

Alder, Kurt. (See Diels, O., and Alder.)

Aldrich, John P., Toledo, Ohio. Bag making and filling machine. 1,944,147; Jan. 23.

Allbert, Eugene A., Portland, Oreg. Combined heater and fireplace. 1,944,626; Jan. 23.

Allen-Bradley Company. (See Wilms, Gustav O., assignor.)

Allen-Bradley Company. (See Wilms, G. O., and Trombetta, assignors.)

Allis-Chalmers Manufacturing Company. (See Montgomery, Terryl B., assignor.)

Altpeter, Ludwig, Essen, Germany. Centrifugal. 1,944,391; Jan. 23.

Aluminum Company of America. (See Doerschuk, V. C., and Schoeffel, assignors.)

Aluminum Company of America. (See Kempf, L. W., and Dawson, assignors.)

Aluminum Goods Manufacturing Company. (See Larsen, Alantser F., assignor.)

Amarel Corporation. (See Zieley, John D., assignor.)

American Coach and Body Company. (See Larsen, Neil P., assignor.)

American Engineering Company. (See Koons, Charles V., assignor.)

American Fabrics Company, The. (See Aemisegger, Jean, assignor.)

American Fabrics Company, The. (See Flatz, Hugo, assignor.)

American Fabrics Company, The. (See Juestrich, Max U., assignor.)

American Fabrics Company, The. (See Page, Samuel H., assignor.)

American Foundry Equipment Company, The. (See Coble, D. C., and Steinmeier, assignors.)

American Lurgi Corporation. (See Ebner, Karl, assignor.)

American Pulley Company, The. (See Bowen, Russell H., assignor.)

American Rolling Mill Company, The. (See Millan, E. N., and Hudson, assignors.)

American Rolling Mill Company, The. (See Reinarts, L. F., and Fon Dersmith, assignors.)

American Securit Company, The. (See Ziegler, Charles, assignor.)

American Show Case & Manufacturing Company. (See Copeland, Ira, assignor.)

American Smelting and Refining Company. (See Rathbun, Ross B., assignor.)

American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)

American Telephone and Telegraph Company. (See Raynsford, A., and Haines, assignors.)

American Telephone and Telegraph Company. (See Turner, Howard C., assignor.)

American Tool Works Company, The. (See Robinson, Albert E., assignor.)

Ammon, William H., Los Angeles, Calif. Nut cracker. 91,384; Jan. 23.

Andersen, Waldemar F., Almeda, assignor to D. F. Searle, Oakland, Calif. Air control mechanism. 1,944,485; Jan. 23.

Anderson, Norman T. (See Sweeley, E. A., and Anderson.)

Anderson, Theodore, Everett, Wash. Audible safety signal for electrical apparatus. 1,944,627; Jan. 23.

Anstiss, George P., Oak Park, assignor to G. S. Blakeslee & Co., Cicero, Ill. Washing machine. 1,944,679; Jan. 23.

Apple, Vincent G., Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind. Control mechanism. 1,944,205; Jan. 23.

Armstrong, Percy A. E., New York, N. Y. Making ferrous products faced with stable surface alloys. Re19,058; Jan. 23.

Arnold, Edwin E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fabricated steel spider. 1,944,776; Jan. 23.

Arthurs, Edward. (See Matthews, H., Warntjes, Arthurs, and Wilkinson.)

Askania-Werke A.-G. vorm. Centralwerkstatt Dessau und Carl Bamberg Friedenau. (See Wünsch, Guido, assignor.)

Asobe, Sotojiro, Kanazawashi, Japan. Japanning on concrete surfaces. 1,944,588; Jan. 23.

Asphalt Process Corporation. (See Schillo, Louis C., assignor.)

Associated Electric Laboratories, Inc. (See Bellamy, John I., assignor.)

Associated Electric Laboratories, Inc. (See Doyle, Frederick W., assignor.)

Associated Electric Laboratories, Inc. (See Hershey, Harry E., assignor.)

Associated Electric Laboratories, Inc. (See Peterson, Edward S., assignor.)

Associated Telephone and Telegraph Company. (See Oliver, Ernest C., assignor).

Associated Telephone and Telegraph Company. (See Stehlik, Rudolph F., assignor.)

Atkins, Samuel E., Duluth, Minn., and T. Carlson, Crystal Falls, Mich. Sampling device. 1,944,392; Jan. 23.

Atlanta Harness and Reed Manufacturing Company. (See King, John L., assignor.)

Atwell, Harold V., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Quick freezing process and refrigerant. 1,944,857; Jan. 23.

Auffricht, Gustave, New York, N. Y. Leakproof collapsible tube. 1,944,589; Jan. 23.

Auto Research Corporation. (See Bijur, Joseph, assignor.)

B. O. T. Manufacturing Company. (See Tilden, Bert O., assignor.)

B. V. D. Company, The. (See Erlanger, Milton S., assignor.)

Baars, Ernst S. H. (See Sloan, H., Baars, and Bach.)

Babcock & Wilcox Co. (See Cross, Walter M., assignor.)

Babcock & Wilcox Company, The. (See Hardgrove, Ralph M., assignor.)

Babitch, Abraham M. (See Zubaty, J., and Babitch.)

Bach, Charles G. (See Sloan, H., Baars, and Bach.)

Bagley and Sewall Company, The. (See Valentine, C. W., Ottersland and Fairbanks, assignors.)

Bailey, Charles M., Berkeley, Calif. Valve. 1,944,486; Jan. 23.

Bailey, Lyman E., Logan, Kans. Portable drill vise. 1,944,540; Jan. 23.

Bailey, Otterbein A., assignor to Chicago Bridge and Iron Company, Chicago, Ill. Stair construction. 1,944,159; Jan. 23.

Bakelite Corporation. (See Schmidt, J. H., and Daniels, assignors.)

Baker, David B., Riverside, C. R. Rogers, Oak Park, and N. O. Panzegrau, Chicago, Ill., assignors to International Harvester Company. Tracklaying tractor. 1,944,393; Jan. 23.

Baker, George R. and G. D. Wilson, Willesden Junction, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Apparatus for coating confections. 1,944,148; Jan. 23.

Baker Perkins Company. (See Baker, G. R., and Wilson, assignors.)

Bales, James E., Aurora, and J. E. Hallberg, Oswego, assignors to Lyon Metal Products, Incorporated, Aurora, Ill. Cabinet. 1,944,394; Jan. 23.

Ball, Frederick O. and T. M., assignors to Chrysler Corporation, Detroit, Mich. Manifold. 1,944,206; Jan. 23.

Ball, Thomas M. (See Ball, Frederick O. and T. M.)

Banks, Frederick R., assignor to The Kennedy Valve Mfg. Co., Elmira, N. Y. Hydrant. 1,944,777; Jan. 23.

Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet feed rotary printing press. 1,944,703; Jan. 23.

Barker, George A., Rochester, N. Y. Windshield. 1,944,160; Jan. 23.

Barker, John, Leeds, England. Apparatus for playing a game. 1,944,628; Jan. 23.

Barnes, Leslie W. (See Stegeman, H. J., and Barnes.)

Barnes, William F., assignor to St. Louis Structural Steel Co., East St. Louis, Ill. Support. 1,944,833; Jan. 23.

Barrett Company, The. (See Cooper, William C., jr., assignor.)

Barrett Company, The. (See Miller, Stuart, P., assignor.)

Basch, Arthur D. (See Kelly, William J., assignor.)

Bates, Albert J., Chicago, Ill., and W. A. Bates, assignors to B. H. Bates, Gary, Ind. Grating. 1,944,207; Jan. 23.

Bates, Beulah H. (See Bates, Albert J. and W. A., assignors.)

Bates, Walter A. (See Bates, Albert J. and W. A.)

Baur, Ottmar, assignor to Robert Bosch, Aktiengesellschaft Stuttgart, Germany. Fuel injection pump. 1,944,858; Jan. 23.

Baxter, John P., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Production of addition product of unsaturated hydrocarbons. 1,944,161; Jan. 23.

Beach, Morgan J., Detroit, Mich. Golf register. 1,944,629; Jan. 23.

Beardsley, Edwin W., Texas City, Tex., assignor to Petroleum Conversion Corporation, New York, N. Y. Device for purging conduits of carbon or the like. 1,944,162; Jan. 23.

Beck, Louis, Longmeadow, assignor to United American Bosch Corporation, Springfield, Mass. Ignition magneto. 1,944,590; Jan. 23.

Bee Line Manufacturing Company. (See Fransen, Frank J., assignor.)

Beghelli, Aldo, Lyon, France. Cement admixture. 1,944,820; Jan. 23.

Bell, Sidney R., Stamford, Conn. Polishing device. 1,944,395; Jan. 23.

Bell Telephone Laboratories, Incorporated. (See Bode, Hendrik W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Burr, George W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Burton, Everett T., assignor.)

Bell Telephone Laboratories, Incorporated. (See Catogge, Joseph J., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hickman, Clarence N., assignor.)

Bell Telephone Laboratories, Incorporated. (See Korn, Franklin A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Raynsford, A., assignor, and Haines.)

Bellamy, John L., Brookfield, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Impulse repeater. 1,944,704; Jan. 23.

Bellows, Foy E., Whitewright, assignor of one-third to R. L. Bellows, Collin County, and one-third to G. Hamilton, Whitewright, Tex. Electric casting and molding machine. 1,944,163; Jan. 23.

Bellows, R. L., et al. (See Bellows, Foy E., assignor.)

Bender, Harry, Antioch, Calif., assignor, by mesne assignments, to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Purification of caustic soda solution. 1,944,630; Jan. 23.

Bendix Brake Company. (See Apple, Vincent G., assignor.)

Benit, Henri, assignor to Compagnie Generale d'Electricite, Paris, France. Protecting lead against corrosion. 1,944,778; Jan. 23.

Benjamin Elec. Mfg. Company. (See Phillips, Paul D., assignor.)

Bennett, Frank I., jr., Highland Park, assignor to Johnson & Johnson, New Brunswick, N. J. Adhesive tape or plaster. 1,944,834; Jan. 23.

Bergman, Tore Y., Halsingborg, and H. A. Svedberg, Halmstad, Sweden. Treating cream for increasing the viscosity thereof. 1,944,541; Jan. 23.

Bergstrom, George A., Everett, Wash. Shingle facing machine. 1,944,631; Jan. 23.

Beringer, Roscoe, assignor to General Motors Corporation, Detroit, Mich. Friction and positive clutch mechanism. 1,944,149; Jan. 23.

Berry, Otto C., Flint, Mich. Carburetor. 1,944,397; Jan. 23.

Berry, Otto C., assignor to Marvel Carburetor Co., Flint, Mich. Heat control for manifolds. 1,944,396; Jan. 23.

Bertschi, Jacob, assignor to Utah Radio Products Company, Chicago, Ill. Electromagnetic vibratory motor. 1,944,487; Jan. 23.

Bertossa, Harry A., Detroit, assignor of one-half to J. R. Weeks, Birmingham, Mich. Warm air furnace. 1,944,488; Jan. 23.

Blach, John L. (See Stirlen, E. D., and Blach.)

Bickerstaff, William O., Smithville, W. Va. Oil saver. 1,944,398; Jan. 23.

Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Chassis lubricating oil and testing the same. 1,944,164; Jan. 23.

Birtley Iron Company Limited, The. (See Holmes, Colin W. H., assignor.)

Black, Lionel, Brookline, Mass. Auxiliary film roll magazine for cameras. 1,944,312; Jan. 23.

Blaise, Leon M., Paris, France. Perfume diffuser. 1,944,821; Jan. 23.

Blakeslee, G. S., & Co. (See Anstiss, George P., assignor.)

Blake-Smith, L. (See Van Loenen, William F., assignor.)

Blomberg, Ulrik I. T., Enskede-Stockholm, Sweden, assignor to Ditto, Incorporated, Chicago, Ill. Duplicating machine. 1,944,165; Jan. 23.

Blomstrom, Charles, Minneapolis, Minn. Hand sanding tool. 1,944,727; Jan. 23.

Bock, Albert E., Omaha, Nebr., assignor to Lisle Corporation, Clarinda, Iowa. Magnetic plug. 1,944,208; Jan. 23.

Bockmühl, Max, Frankfort-on-the-Main, and R. Knoll, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Cholesterin ester. 1,944,542; Jan. 23.

Bockshe, Ely, Milwaukee, Wis. Grinder. 1,944,489; Jan. 23.

Bockwitz, Andrew J. (See Self, Grafton H., assignor.)

Bode, Hendrik W., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission network. 1,944,209; Jan. 23.

Boeckeler, Benjamin C. (See Frolich, P. K., and Boeckeler.)

Boehmer, Peter P., Syracuse, N. Y. Cooker. 1,944,632; Jan. 23.

Boettger, August. (See Kronschnabl, Johann, assignor.)

Bohn Aluminum & Brass Corporation. (See Nelson, Adolph L., assignor.)

Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Case for automobile radios. Des. 91,386; Jan. 23.

Boothroyd, Hubert. (See Woodcock, R. B., and Boothroyd.)

Born, Sidney, Tulsa, Okla. Dry cleaning composition. 1,944,859; Jan. 23.

Bosch, Robert, Aktiengesellschaft. (See Baur, Ottmar, assignor.)

Boundy, Ray H. (See Grebe, J. J. and Boundy.)

Bourland, Harry B., Evansville, Ind. Suitcase. 1,944,633; Jan. 23.

Boutton, Edwin, and H. A. Brunner, Cincinnati, Ohio. Sewing cabinet. Des. 91,387; Jan. 23.

Bowen, Myron W., assignor to Hydraulic Brake Company, Detroit, Mich. Brake. 1,944,490; Jan. 23.

Bowen, Russell H., assignor to The American Pulley Company, Philadelphia, Pa. Multigrooved pulley. 1,944,779; Jan. 23.

Bowen, William S., Westfield, N. J. Governor. 1,944,210; Jan. 23.

Bowers, Frederick M., Chester, Pa. Welder's mask. 1,944,399; Jan. 23.

Boyers, Charles F., Hillsboro, assignor to The Champion Coated Paper Company, Hamilton, Ohio. Making filled surface paper. 1,944,835; Jan. 23.

Bradley, Herold. (See Ciriacy, E., and Bradley.)

Bragg, Herman E., St. Mary's College, assignor to St. Mary's College, Oakland, Calif. Drawing material. Re19,060; Jan. 23.

Brandt Automatic Cashier Company. (See Brandt, Edward J., assignor.)

Brandt, Edgar W., Paris, France. Percussion fuse of high sensitivity. 1,944,780; Jan. 23.

Brandt, Edward J., assignor to Brandt Automatic Cashier Company, Watertown, Wis. Money handling machine. 1,944,313; Jan. 23.

Bray, Ulric B., Palos Verdes Estates, assignor to Union Oil Company of California, Los Angeles, Calif. Producing lubricating oil. 1,944,491; Jan. 23.

Brockel, Ernst, assignor to Maschinenfabrik Augsburg-Nurnberg, A. G., Augsburg, Germany. Matrix melting press. 1,944,728; Jan. 23.

Brodhun, Carl P., Wilkes-Barre, Pa. Cable. 1,944,634; Jan. 23.

Brodie, George H., Riverside, Ill., assignor to Western Electric Company Incorporated, New York, N. Y. Testing the electrical characteristics of materials. 1,944,211; Jan. 23.

Brooks, Benjamin T., Greenwich, Conn., assignor, by mesne assignments, to Standard Alcohol Company, Wilmington, Del. Obtaining secondary alcohols from acid liquors. 1,944,400; Jan. 23.

Brown, George W., Memphis, Tenn. Photographing burglars or other intruders. 1,944,212; Jan. 23.

Brown, Walter P., New Haven, Conn. Hosiery. 1,944,591; Jan. 23.

Brugge, Benjamin C., Alabama City, Ala., assignor to Gulf States Steel Company. Nail. 1,944,150; Jan. 23.

Brune, Albert, Albert Lea, and G. H. Sterling, Minneapolis, Minn. Vehicle coupler. 1,944,213; Jan. 23.

Brunner, Elmer H., East Cleveland, assignor to Brunner-State Studios, Inc., Cleveland, Ohio. Clamping device. 1,944,166; Jan. 23.

Brunner, Harry A. (See Boutton, E., and Brunner.)

Brunner-State Studios, Inc. (See Brunner, Elmer H., assignor.)

Bryce, James W., Bloomfield, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Alternating current and direct current secondary clock with individual rectifier. 1,944,592; Jan. 23.

Buckins, Albert O., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Roller bearing journal box. 1,944,705; Jan. 23.

Budd Wheel Company. (See Farr, W. H., Smith, and Eksergian, assignors.)

Bueschel, Andrew E., Chicago, Ill. Carton. 1,944,214; Jan. 23.

Burr, George W., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Making bimetallic stock. 1,944,215; Jan. 23.

Burton-Dixie Corporation. (See Zimmerman, F. R., and Klilelea, assignors.)

Burton, Everett T., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 1,944,216; Jan. 24.

Butterfield, Charles, Norwood, and H. W. Nichols, Cincinnati, Ohio; said Butterfield assignor to said Nichols. Bag and sack. 1,944,151; Jan. 23.

Buxton, Warner R., Longmeadow, Mass. Flexible pocket receptacle. 1,944,635; Jan. 23.

Calcott, William S., Penns Grove, A. E. Parmelee, Carneys Point, and H. F. Meschter, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Alloy for use in the manufacture of tetraethyl lead. 1,944,167; Jan. 23.

Calderwood, Hugh A., Pittsburgh, Pa., assignor to National Electric Products Corporation, New York, N. Y. Knock-out. 1,944,706; Jan. 23.

California Packing Corporation. (See Pilorz, Bruno.)

Callaway, Robert M., Waco, Tex. Outlet construction. 1,944,401; Jan. 23.

Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Slitting device. 1,944,781; Jan. 23.

Cameron Machine Company. (See Cameron, James A., assignor.)

Camerota, Louis A., Burlington, N. J., assignor to W. Wood, Philadelphia, Pa. Centrifugal casting machine. 1,944,168; Jan. 23.

Campbell, Charles, London, England, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Sorting machine for record cards. 1,944,680; Jan. 23.

Carborundum Company, The. (See Kirchner, Henry P.)

Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Trimmer mechanism for sewing machines. 1,944,543; Jan. 23.

Carlson, Theodore. (See Atkins, S. E., and Carlson.)

Carpenter, Oliver K., New Cumberland, W. Va., W. E. Griffith and P. S. Menough, assignors to The Duraloy Company, Pittsburgh, Pa. Furnace conveyer. 1,944,217; Jan. 23.

Carrier Research Corporation. (See Marshall, Henry H., assignor.)

Carter Carburetor Corporation. (See Ericson, George R., assignor.)

Carter Carburetor Corporation. (See Schweiss, Joseph, assignor.)

Caterpillar Tractor Co. (See Munro, James R., assignor.)

Catogge, Joseph J., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph repeater. 1,944,218; Jan. 23.

Cavins, Omar A., San Francisco, Calif. Suction fishing tool. 1,944,169; Jan. 23.

Celanese Corporation of America. (See Ellis, G. H., Olpin, and Kirk, assignors.)

Celanese Corporation of America. (See Rivat, George, assignor.)

Chadwick, Lee S., Shaker Heights, and C. J. Kessler, Cleveland Heights, assignors to Perfection Stove Company, Cleveland, Ohio. Burner. 1,944,492; Jan. 23.

Chadwick, Lee S., Shaker Heights Village, M. Resek and C. J. Kessler, Cleveland Heights, assignors to Perfection Stove Company, Cleveland, Ohio. Heating apparatus. 1,944,593; Jan. 23.

Chambers, Arthur, et al. (See Norris, David L., sr., assignor.)

Champion Coated Paper Company, The. (See Boyers, Charles F., assignor.)

Charlesworth, Samuel, Mount Vernon, assignor, by mesne assignments, to Surface Combustion Corporation, Toledo, Ohio. Continuous furnace. 1,944,729; Jan. 23.

Chemical Construction Corporation. (See Mast, William C., assignor.)

Chemische Fabrik Grunau Landshoff & Meyer Aktiengesellschaft. (See Franke, Emil, assignor.)

Chemische Fabrik Pott & Co. (See Pott, Rainer H., assignor.)

Chemische Fabrik von Heyden, A. G. (See Mirau, Hans, assignor.)

Cheney, William H., Chattanooga, Tenn. Gas generating device. 1,944,544; Jan. 23.

Chicago Bridge and Iron Company. (See Bailey, Otterbein A., assignor.)

Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Flange connection. 1,944,219; Jan. 23.

Christman, Matthias, Springfield, Mo. Wheel hub plate. 1,944,782; Jan. 23.

Chrysler Corporation. (See Ball, Frederick O. and T. M., assignors.)

Chrysler Corporation. (See Hann, William E., assignor.)

Chrysler Corporation. (See Lee, R. K., and Humphrey, assignors.)

Chrysler Corporation. (See Langhammer, Anthony J., assignor.)

Chrysler Corporation. (See Miller, C. W., and Goode.)

Chrysler Corporation. (See Mulhern, William A.)

Chrysler Corporation. (See Skelton, Owen R., assignor.)

Church, Walter L., Houston, assignor of one-half to W. L. Pearce, Harris County, Tex. Tubing head. 1,944,545; Jan. 23.

Church, Walter L., L. M. Pearce, and J. K. Clark, Houston, Tex. Outside cutting tool. 1,944,594; Jan. 23.

Church, William W. Stratford, Conn., and W. C. Robinson, Sewickley, Pa., assignors to National Electric Products Corporation, New York, N. Y. Method and machine for coating cables. 1,944,822; Jan. 23.

Cinch Manufacturing Corporation. (See Knutson, Carl L., assignor.)

Ciriacy, Edward, and H. Bradley, Aliquippa, Pa. Door holder. 1,944,783; Jan. 23.

Clapp, James K., Auburndale, assignor to General Radio Company, Cambridge, Mass. Electric system and method. 1,944,315; Jan. 23.

Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Composition for dielectric use. 1,944,730; Jan. 23.

Clark, Jack K. (See Church, W. L., Pearce, and Clark.)

Clark, William T., Philadelphia, Pa. Shield for vehicle windows. 1,944,152; Jan. 23.

Clayton, Martin M., Baden, Pa., assignor to National Electric Products Corporation, New York, N. Y. Removable knock-out. 1,944,707; Jan. 23.

Clerc, André, Villeurbanne, France. Electric circuit-breaker with compressed gas blow-out. 1,944,402; Jan. 23.

Clerc, André, Villeurbanne, France. Arc extinguishing chimney. 1,944,403; Jan. 23.

Cleveland Graphite Bronze Company, The. (See Palm, John V. O., assignor.)

Clouse, William L., assignor to The National Machinery Company, Tiffin, Ohio. Nut placer for tappers. 1,944,653; Jan. 23.

Coble, David C., and C. D. Steinmeier, assignors to The American Foundry Equipment Company, Mishawaka, Ind. Rotary abrasive blast gun. 1,944,404; Jan. 23.

Coffman, Samuel M., Kansas City, Mo. Freewheeling transmission mechanism. 1,944,220; Jan. 23.

Cohan, Morris J., Brooklyn, assignor to Reliance Specialties Manufacturing Co., Inc., New York, N. Y. Soldering tool. 1,944,860; Jan. 23.

Colbie, Gus L., Brooklyn, assignor to F. MacGovern Corporation, New York, N. Y. Apparatus for controlling the position of staples in wirebound boxes. 1,944,493; Jan. 23.

Colbie, Gus L., Brooklyn, assignor to F. MacGovern Corporation, New York, N. Y. Work feed control means for locating staples in wirebound boxes. 1,944,494; Jan. 23.

Collins, Lawrence A., Long Beach, Calif. Electric liquid heater. 1,944,495; Jan. 23.

Colman, Howard D. (See Stewart, Duncan J., assignor.)

Colomb, Henri, Tavannes, Switzerland. Winding device for watches. 1,944,654; Jan. 23.

Colonial Radio Corporation. (See Gates, Howard A., assignor.)

Columbia Phonograph Company. (See Mitchell, Frank A.)

Columbia Phonograph Company. (See Williams, William E., assignor.)

Columbian Carbon Company. (See Lewis, George C., assignor.)

Columbian Rope Company. (See Dodge, Milo C., assignor.)

Compagnie Generale d'Electricite. (See Benit, Henri, assignor.)

Cook, Kenneth B., Providence, R. I., assignor, by mesne assignments, to Manville Jenckes Corporation. Slasher. 1,944,221; Jan. 23.

Cook, Lydia, Burlington, Iowa. Device for destroying vermin. 1,944,784; Jan. 23.

Cooper, William C., jr., Venice, Calif., assignor to The Barrett Company, New York, N. Y. Production of tar acids. 1,944,681; Jan. 23.

Copeland, Ira, Detroit, Mich., assignor to American Show Case & Manufacturing Company. Portable adjustable bar. 1,944,405; Jan. 23.

Copliovich, Jacob, St. Paul, Minn., assignor to Geo. D. Roper Corporation, Rockford, Ill. Lighter. 1,944,496; Jan. 23.

Corning Glass Works. (See Škola, Vladimir, assignor.)

Cott-A-Lap Company, The. (See Prifold, George, assignor.)

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Cowles, Edwin, Princeton, assignor to Cowles Engineering Corporation, Sewaren, N. J. Apparatus for disseminating solids in liquids. 1,944,836; Jan. 23.

Cowles Engineering Corporation. (See Cowles, Edwin, assignor.)

Crary, James H., Westport, N. Y. Internal combustion engine. 1,944,785; Jan. 23.

Creed and Company. (See Salmon, Reginald D., assignor.)

Cressaty, George M. (See Marsat, Antoine, assignor.)

Crick, Thomas, assignor to Independence Stove and Furnace Company, Independence, Mo. Furnace radiator. 1,944,497; Jan. 23.

Crick, Thomas, assignor to Independence Stove and Furnace Company, Independence, Mo. Sign. 1,944,498; Jan. 23.

Crimp, John A., Yakima, Wash. Vending machine. 1,944,499; Jan. 23.

Crofton, Cecil R., Caernarvon, North Wales. Retinoscope or like instrument for ascertaining objectively the refraction of eyes. 1,944,406; Jan. 23.

Crosley Radio Corporation, The. (See Langley, Ralph H., assignor.)

Cross, Walter M., Kansas City, Mo., assignor to Babcock & Wilcox Co., New York, N. Y. System of generating power and control therefor. 1,944,222; Jan. 23.

Crowther, George A., Jackson Heights, assignor to International Safety Lock Nut Corporation, New York, N. Y. Lock nut. 1,944,595; Jan. 23.

Cummins, Thomas K., and C. L. Emry, assignors to Northern Malleable Iron Company, St. Paul, Minn. Hand brake mechanism. 1,944,546; Jan. 23.

Cutler-Hammer, Inc. (See Hunter, Richard B., assignor.)

Cutler-Hammer, Inc. (See Richardson, Linwood T., assignor.)

Cutler-Hammer, Inc. (See Seeger, Edwin W., assignor.)

Dahlman, Verner, New Lenox, assignor to Independent Air Filter Company, Chicago, Ill. Air filter. 1,944,407; Jan. 23.

Daniels, Rupert S. (See Schmidt, J. H., and Daniels.)

Danninger, Felix. (See Hofer, A., and Danninger.)

Dansereau, Ely J., Flint, Mich. Carburetor. 1,944,547; Jan. 23.

Darlington, Homer T., West Chester, Pa., assignor, by mesne assignments, to Oil Corporation of America. Desulphurising, decolorising, deodorizing, and degumming hydrocarbons, and of providing a protective buffer for apparatus. 1,944,170; Jan. 23.

Daugherty, Arthur, Kincaid, Saskatchewan, Canada. Ratchet wrench. 1,944,171; Jan. 23.

Dawson, Ivan R. (See Kempf, L. W., and Dawson.)

Day, Ray E., Detroit, Mich. Piston. 1,944,223; Jan. 23.

Deere & Company. (See Silver, Walter H., assignor.)

De Fries, Walter, assignor to The William B. Pollock Company, Youngstown, Ohio. Trunnion structure for ladles. 1,944,824; Jan. 23.

De La Garde, Theodor M., Los Angeles, assignor of three-fourths to T. L. Tally, Beverly Hills, Calif. Combined intermittent claw feed film movement and film pressure release. 1,944,500; Jan. 23.

Delamere Company. (See Goodman, Jacob, assignor.)

Delco-Light Company. (See Dickey, Ernest, assignor.)

Detroit Body Die Company. (See Purdy, Emmett G., assignor.)

Detroit Dental Manufacturing Company. (See Kerr, R. M., and Wolfe, assignors.)

Detroit Hoist and Machine Company. (See Martin, Henry F.)

De Vilbiss, John A., assignor to G. R. Ernst, St. Louis, Mo. Fuel burner. 1,944,408; Jan. 23.

Dexter Folder Company. (See Kast, Edward R., assignor.)

Deyhle, Robert, Zurich, Switzerland. Supporting device on skates, roller skates, and the like. 1,944,409; Jan. 23.

Diamond Power Specialty Corporation. (See Howse, C. L., and Thomas, assignors.)

Diamond Power Specialty Corporation. (See Thomas, Willis P., assignor.)

Dickerson, Delbert J., South Gate, Calif. Striping device. 1,944,224; Jan. 23.

Dickey, Ernest, assignor to Delco-Light Company, Dayton, Ohio. Carburetor. 1,944,225; Jan. 23.

Dickinson, Harry S., South Bend, Ind., assignor to Oliver Farm Equipment Company. Mower. 1,944,410; Jan. 23.

Dickson, John B., assignor to General Motors Research Corporation, Detroit, Mich. Stop light lens. 1,944,154; Jan. 23.

Diedrich, Paul. (See Dohrn, M., and Diedrich.)

Diels, Otto, and K. Adler, Kiel, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Organic compound having hydrogenated ring systems and preparing it. 1,944,731; Jan. 23.

Diels, Otto, and K. Alder, Kiel, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Compounds having hydrogenated ring systems and preparing them. 1,944,732; Jan. 23.

Dippman, Fred R., assignor to The Ohio Brass Company, Mansfield, Ohio. Valve. 1,944,155; Jan. 23.

Disston, Henry, and Sons, Inc. (See Mellor, William, assignor.)

Ditto, Incorporated. (See Blomberg, Ulrik I. T.)

Dodge, Milo C., assignor to Columbian Rope Company, Auburn, N. Y. Paper wire rope center. 1,944,786; Jan. 23.

Dodge, William W., jr., Asheville, N. C. Bowl or similar article. Des. 91,402; Jan. 23.

Doerschuk, Victor C., and E. G. Schoeffel, Massena, N. Y., assignors to Aluminum Company of America, Pittsburgh, Pa. Siphoning metal. 1,944,733; Jan. 23.

Doherty-Brehm Company. (See Doherty, George D., assignor.)

Doherty, George D., assignor to Doherty-Brehm Company, Minneapolis, Minn. Air humidifier. 1,944,411; Jan. 23.

Doherty, Henry L. (See Loebell, Henry O., assignor.)

Dohrn, Max, Berlin-Charlottenburg, and P. Diedrich, Finkenkrug, near Spandau, assignors to Schering-Kahlbaum A. G., Berlin, Germany. Chelidamic acid derivative. 1,944,412; Jan. 23.

Doran, James F., deceased, by John C. Doran, Danbury, Conn., executor. Hat ironing machine or the like. 1,944,655; Jan. 23.

Doran, John C., executor. (See Doran, James F.)

Dörr, Wilhelm E., Uberlingen, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Germany. Transmission gearing. 1,944,682; Jan. 23.

Dounis, Peter L., and A. Jordanoglou, Washington, D. C. Jacking and sidewise motion transmitting device for automotive vehicles. 1,944,501; Jan. 23.

Dow Chemical Company, The. (See Grebe, J. J., and Boundy, assignors.)

Downing, William C. jr., assignor to Lincoln Meter Company, Inc., Springfield, Ill. Meter. 1,944,656; Jan. 23.

Doyle, Frederick W., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Assembling machine. 1,944,683; Jan. 23.

Drath, Paul. (See Hope, S. N., and Drath.)

Dresner, Emanuel, Chicago, Ill. Luggage. 1,944,172; Jan. 23.

Dubilier, William, New Rochelle, assignor to Radio Patents Corporation, New York, N. Y. Wired radio communication system. 1,944,226; Jan. 23.

Duerr, Frank A., and E. A. Stierheim, Pittsburgh, Pa. Gas feeding device. 1,944,316; Jan. 23.

Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., Parmelee, and Meschter, assignors.)

Du Pont, E. I., de Nemours & Company. (See Lubs, H. A., and Strouse, assignors.)

Du Pont, E. I. de Nemours & Company. (See Salzberg, Paul L., assignor.)

Dupuy, Louis E., assignor to The Lamson Company, Syracuse, N. Y. Conveyer. 1,944,734; Jan. 23.

Du Puy, Richard R., assignor to Wright, De Coster, Inc., St. Paul, Minn. Loud speaker cone. 1,944,861; Jan. 23.

Duralor Company, The. (See Carpenter, O. K., Griffith, and Menough, assignors.)

Durand & Hughuenin S. A. (See Hug, E., and Müller, assignors.)

Durbin, Votaw S., St. Louis, Mo. Galvanized malleable iron and producing same. 1,944,227; Jan. 28.

Dusablon, Henry, Chicago, Ill. Building construction. 1,944,787; Jan. 23.

Dusterberg, Rudolf C., Astoria, N. Y. Milk bottle evacuating cap. 1,944,636; Jan. 23.

Eames, William F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Signaling system. 1,944,735; Jan. 23.

Ebner, Karl, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Separation of solid substances from liquid by vacuum cooling in stages. 1,944,548; Jan. 28.

Economy Fuse and Manufacturing Company. (See Gordon, David D., assignor.)

Ecremeuses Melotte, Societe Anonyme. (See Henrard, Fernand, assignor.)

Edwards and Company. (See Miller, C., and Joost, assignors.)

Ehricke, Erich, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone system. 1,944,684; Jan. 23.

Einstein, Howard C., Detroit, Mich., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Control device for accounting machines. 1,944,657; Jan. 23.

Eisenberg, Charles G., jr., Wauwatosa, assignor to The Heil Co., Milwaukee, Wis. Dumping mechanism. 1,944,414; Jan. 23.

Elsold, Richard B., Ludlow, Mass. Direction signal. 1,944,557; Jan. 23.

Eltzen, August D., Rockville Center, assignor to News Projection Corporation, New York, N. Y. Variable speed control for stock quotation projectors. 1,944,173; Jan. 23.

Eltzen, August D., Rockville Center, assignor to News Projection Corporation, New York, N. Y. Quotation projection or similar apparatus. 1,944,174; Jan. 23.

Eksergian, Carolus L. (See Farr, W. H., Smith, and Eksergian.)

Electra-Lackwerke G. m. b. H. System Dr. Kronstein. (See Kronstein, Abraham, assignor.)

Electric Smelting & Aluminum Company, The. (See Scheidt, Alfred W., assignor.)

Electrogear Corporation. (See Neuland, Alfons H., assignor.)

Electrolux Corporation. (See Lundvall, Erik A., assignor.)

Ellis, George H., H. C. Olpin, and E. W. Kirk, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of cellulose derivatives. 1,944,413; Jan. 23.

Ellis, John, assignor to Acme Hough Manufacturing Company. Pittsburgh, Pa. Curtain stretcher frame. 1,944,549; Jan. 23.

Emanuelli, Luigi, assignor to Societa Utaliana Pirelli, Milan, Italy. Apparatus for locating oil leaks in cables. 1,944,637; Jan. 23.

Emry, Clyde L. (See Cummins, T. K., and Emry.)

Engberg, Martin H., Highland Park, Ill. Manufacturing basic zinc carbonate. 1,944,415; Jan. 23.

Engineering and Research Corporation, The. (See Stirlen, E. D., and Black, assignors.)

Engstrom, William A., and E. Ginn, Detroit, Mich. Automatic engine governor. 1,944,638; Jan. 23.

Ericson, George R., Maplewood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Filtering system. 1,944,550; Jan. 23.

Erie City Iron Works. (See St. Clair, Clinton D., assignor.)

Erlanger, Milton S., Elberon, N. J., assignor to The B. V. D. Company, Inc., New York, N. Y. Garment. 1,944,416; Jan. 23.

Ernst, G. Ralph. (See DeVilbiss, John A., assignor.)

Erz- und Kohle-Flotation Gesellschaft mit beschränkter Haftung. (See Schäfer, W., and Mertens, assignors.)

Everett, Julia L., Chicago, Ill. Hair curler. 1,944,417; Jan. 23.

Factor, Max, Los Angeles, Calif. Make-up box. 1,944,502; Jan. 23.

Fafnir Bearing Company, The. (See Smith, John W., assignor.)

Fairall, Harry K., Hollywood, Calif., assignor, by mesne assignments, to Harriscolor Films, Inc., Jersey City, N. J. Camera shuttle. 1,944,228; Jan. 23.

Fairbanks, George A. (See Valentine, C. W., Otterland and Fairbanks.)

Fairley, Charles M., St. Louis, Mo. Fishing rod. 1,944,503; Jan. 23.

Farr, Warren H., O. E. Smith, and C. L. Eksergian, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Tensioning wire wheels. 1,944,596; Jan. 23.

Federal Telegraph Company. (See Kruesi, Geoffrey G., assignor.)

Federal Telegraph Company. (See Sollie, Sigurd A., assignor.)

Feltham, Douglas L., Toledo, Ohio. Safety door. 1,944,156; Jan. 23.

Feuillée, Henri, Gentilly, France. Device for protecting internal combustion engines against back firing. 1,944,418; Jan. 23.

Firestone Tire & Rubber Company, The. (See Mullin, Andrew B., assignor.)

Firestone Tire & Rubber Company, The. (See Stevens, Horace D., assignor.)

Fischer, Oskar, Kappelhof near Friedrichshafen, Germany. Inking apparatus for typewriting machines having type cylinders. 1,944,597; Jan. 23.

Fisher, Harold W., Elizabeth, N. J., assignor to Standard-I. G. Company. Treatment of hydrocarbon materials containing sulphurous impurities. 1,944,639; Jan. 23.

Flatz, Hugo, Hasbrouck Heights, N. J., assignor to The American Fabrics Company, Bridgeport, Conn. Textile fabric. Des. 91,403; Jan. 23.

Fleischhauer, Richard. (See Kalischer, G., and Fleischhauer.)

Floss, Carl W., Detroit, Mich. Power transmitting unit for vehicles. 1,944,685; Jan. 23.

Fon Dersmith, C. R. (See Reinartz, L. F., and Fon Dersmith.)

Ford, Eugene A., Scarsdale, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Printing counter. 1,944,659; Jan. 23.

Ford, Frederick A., San Fernando, Calif. Cigarette extinguisher. 1,944,640; Jan. 23.

Fordyce, Allmon, New York, N. Y., assignor to General Electric Company. Vacuum cleaner casing. Des. 91,388; Jan. 23.

Forknall, George E., Niagara Falls, N. Y. Container. 1,944,551; Jan. 23.

Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Switch mechanism. 1,944,157; Jan. 23.

Fox Automotive Products Corporation. (See Henke, Frederick W., jr., assignor.)

Franke, Emil, assignor to Chemische Fabrik Grunau Landshoff & Meyer Aktiengesellschaft, Grunau-Berlin, Germany. Manufacture of boric acid. 1,944,598; Jan. 23.

Franklin, Lester K., Chicago, Ill. Radiator cap. Des. 91,389; Jan. 23.

Fransen, Frank J., Rock Island, Ill., assignor to Bee Line Manufacturing Company, Davenport, Iowa. Axle bending equipment. 1,944,562; Jan. 23.

Fred Goat Co. (See Mansbendel, Fritz P.)

Frederick Iron & Steel Company, The. (See Riddell, William A., assignor.)

Frelin, Fritjof, Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Piston. 1,944,708; Jan. 23.

French, Richard W., Bristol, assignor to Superior Zinc Corporation, Philadelphia, Pa. Producing zinc oxide. 1,944,158; Jan. 23.

French, Roy B., Superior, W. Va. Mine car check locks and collectors. 1,944,552; Jan. 23.

Freund, Emanuel M., Albany, N. Y. Douche. 1,944,553; Jan. 23.

Frey, Frederick E., assignor to Phillips Petroleum Company, Bartlesville, Okla. Odorizing liquefied petroleum gases. 1,944,175; Jan. 23.

Frick, Chester A., assignor to Glascock Brothers Mfg. Co., Muncie, Ind. Bottle dispensing refrigerator or the like. Des. 91,390; Jan. 23.

Frick, Chester A., assignor to Glascock Brothers Mfg. Co., Muncie, Ind. Bottle dispensing refrigerator or the like. Des. 91,391; Jan. 23.

Friedersdorff, Konrad, Bergisch-Gladbach, assignor to Stellawerk Aktiengesellschaft vormals Wilisch & Co., Berlin-Wilmersdorf, Germany. Refractory body and manufacturing the same. 1,944,709; Jan. 23.

Frigidaire Corporation. (See Summers, Otto M., assignor.)

Fritsche, John, Merion, and J. C. Hadik, Philadelphia, Pa.; said Hadik assignor to said Fritsche. Vending machine. 1,944,229; Jan. 23.

Frolich, Per K., Cambridge, Mass., and B. C. Boeckeler, St. Louis, Mo.; said Frolich assignor to Standard Oil Development Company. Formation of olefines. 1,944,419; Jan. 23.

Funk, Claude D., Princeton, Ind. Shoe shining stand. 1,944,736; Jan. 23.

G & G Atlas Systems, Inc. (See Olson, Samuel, assignor.)

G & G Atlas Systems, Inc. (See Stoetzel, Joseph J., assignor.)

Galloway Engineering Company Limited. (See Greening, Herald B., assignor.)

Gates, Howard A., assignor to Colonial Radio Corporation, Buffalo, N. Y. Indicator. 1,944,554; Jan. 23.

Gebruder-Eickhoff, Maschinenfabrik und Eisengiesserei. (See Grube, Heinrich, assignor.)

Geer, William E., assignor to A. R. Wilfley and Sons, Inc., Denver, Colo. Side plate for centrifugal pumps. 1,944,504; Jan. 23.

Geise, Walter A., Flint, assignor to General Motors Corporation, Detroit, Mich. Crankcase ventilator. 1,944,341; Jan. 23.

General Aniline Works. (See Zitscher, A., Morschel, and Luce, assignors.)

General Aniline Works, Inc. (See Kalischer, G., and Fleischhauer, assignors.)

General Automatic Merchandising Corporation, The. (See Rogers, Ralph L., assignor.)

General Automatic Merchandising Corporation. (See Rogers, Ralph L., jr., assignor.)

General Cable Corporation. (See Roux, Adrian P., assignor.)

General Cable Corporation. (See Snyder, Edward, assignor.)

General Electric Company. (See Clark, Frank M., assignor.)

General Electric Company. (See Fordyce, Allmon, assignor.)

General Electric Company. (See Gillette, R. T., and Leveen, assignors.)

General Electric Company. (See Hull, Albert W., assignor.)

General Electric Company. (See Hutt, Leonard P., assignor.)

General Electric Company. (See Kelley, Floyd C., assignor.)

General Electric Company. (See Leach, Edward A., assignor.)

General Electric Company. (See Millner, Theodore, assignor.)

General Electric Company. (See Shaw, Percy G., assignor.)

General Motors Corporation. (See Beringer, Roscoe, assignor.)

General Motors Corporation. (See Geise, Walter A., assignor.)

General Motors Corporation. (See Primrose, George A., assignor.)

General Motors Corporation. (See Thompson, Earl A., assignor.)

General Motors Research Corporation. (See Dickson, John B., assignor.)

General Radio Company. (See Clapp, James K., assignor.)

General Salt Company. (See Girvin, Charles W., assignor.)

General Steel Castings Corporation. (See Halquist, E. G., and Krautheim, assignors.)

General Steel Castings Corporation. (See Pflager, Harry M., assignor.)

Genz, Frederick W., assignor to Virginia-Carolina Chemical Corp., Richmond, Va. Fertilizer. 1,944,788; Jan. 23.

Gérard, Léon, Sevres, assignor to P. Viet, Billancourt, Seine, France. Starter for internal-combustion engines. 1,944,641; Jan. 23.

Germershausen, Werner, Berlin-Oberschoneweide, Germany. Electrical discharging rectifier with a plurality of anodes. 1,944,555; Jan. 23.

Gerrard Company, The. (See Wright, Parvin, assignor.)

Gershon, Benjamin, Chicago, Ill. Table mat. 1,944,686; Jan. 23.

Gibson, William H. (See Hale, F. J., and Gibson.)

Giesen, Johann, and E. Peukert, Neuroessen, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Recovery of molybdenum from substances containing molybdenum or its compounds. 1,944,420; Jan. 23.

Gill, Carl O., et al. (See Potter, Harold B., assignor.)

Gillette, Robert T., and L. R. Leveen, Scotia, N. Y., assignors to General Electric Company. Welding machine. 1,944,863; Jan. 23.

Gillette Safety Razor Company. (See Holtzman, John, assignor.)

Gillian, Herman A., Columbus, Ohio. Glove manufacture. 1,944,505; Jan. 23.

Gilman, George S., et al. (See Potter, Harold B., assignor.)

Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Railway car. 1,944,421; Jan. 23.

Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Railway car coupler positioning device. 1,944,422; Jan. 23.

Ginn, Earl. (See Engstrom, W. A., and Ginn.)

Girvin, Charles W., assignor to General Salt Company, Long Beach, Calif. Recovery of iodine. 1,944,423; Jan. 23.

Glascock Brothers Mfg. Co. (See Frick, Chester A., assignor.)

Gleeson, William H., San Francisco, Calif. High pressure reducing valve. 1,944,424; Jan. 23.

Goat, Fred, Co. Inc. (See Mansbendel, Fritz P.)
Goldkamp, Otto B., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif. Balanced valve apparatus for fluid regulators. 1,944,425; Jan. 23.
Goode, Gilbert C. (See Miller, C. W., and Goode.)
Goodman, Jacob, Brooklyn, N. Y., assignor to Delamere Company, Inc. Hair waver. 1,944,737; Jan. 23.
Goodman Manufacturing Company. (See Madeira, John R., assignor.)
Gordon, David D., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Electric socket. 1,944,342; Jan. 23.
Gordon, John, Winnepeg, Manitoba, Canada, assignor to J. Stone & Company Limited, Deptford, England. Driving of auxiliary apparatus on railway vehicles. 1,944,599; Jan. 23.
Grassman, Edmund E., Arlington, N. J. Boiler. 1,944,506; Jan. 23.
Grasso, Frank, Wilkes-Barre, Pa. Wearing apparel and making same. 1,944,507; Jan. 23.
Gravely, Benjamin F., Dunbar, W. Va. Gearing. 1,944,789; Jan. 23.
Grebe, John J., and R. H. Boundy, assignors to The Dow Chemical Company, Midland, Mich. Controlling oxidation of halide solutions to liberate free halogen. 1,944,738; Jan. 23.
Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic print drier. 1,944,600; Jan. 23.
Greening, Herald B., assignor to Galloway Engineering Company Limited, Hamilton, Ontario, Canada. Sheave for wire cables. 1,944,426; Jan. 23.
Gregory, Carl L., New Rochelle, N. Y., assignor to Kislyn Corporation, Englewood, N. J. Color filter. 1,944,230; Jan. 23.
Griffith, Edward W., Detroit, Mich. Making hub caps. 1,944,658; Jan. 23.
Griffith-Hope Company. (See Hope, S. N., and Drath, assignors.)
Griffith, William E. (See Carpenter, O. K., Griffith, and Menough.)
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe. 1,944,231; Jan. 23.
Grube, Heinrich, assignor to Gebruder Eickhoff, Maschinenfabrik und Eisengiesserei, Bochum, Germany. Jigger conveyer. 1,944,790; Jan. 23.
Gruse, William A. (See Hjerpe, E. B., and Gruse.)
Guardian Trust Company, The. (See Snyder, George C.,
Gubler, Ulrich, Ennetbaden, assignor to Micafil Aktiengesellschaft, Alstetten, near Zurich, Switzerland. Making electrically insulating form pieces. 1,944,508; Jan. 23.
Guettler, H. W., President of Fibre Making Processes, Inc. (See Tuckerman, Ernst, assignor.)
Gulf Refining Company. (See Hjerpe, E. B., and Gruse, assignors.)
Gulf Refining Company. (See Smith, Herschel G., assignor.)
Gulf States Steel Company. (See Brugge, Benjamin C., assignor.)
Gulick, Fred E., Portland, Oreg. Dental dimensionator. 1,944,601; Jan. 23.
Gustavson, Oscar W., Lancaster, Mass. Game. 1,944,317; Jan. 23.
Haase, Adolph L., New London, Wis., assignor to The Prescott Company, Menominee, Mich. Sawmill dog. 1,944,285; Jan. 23.
Hackley, Chester F., receiver. (See Miller, Ernest B., assignor.)
Hadik, Joseph C. (See Fritsche, J., and Hadik.)
Haines, William T. (See Raynsford, A., and Haines.)
Hale, Frank J., Flushing, and W. H. Gibson, New York, N. Y. Bottle. Des. 91,392; Jan. 23.
Hallberg, John E. (See Bales, J. E., and Hallberg.)
Halliday, Alonzo L., and F. Jones, Ventura, Calif. Hydraulic underreamer. 1,944,556; Jan. 23.
Hallquist, Einar G., Edwardsville, Ill., and W. C. Krautheim, St. Louis, Mo., assignors to General Steel Castings Corporation, Granite City, Ill. Locomotive structure. 1,944,427; Jan. 23.
Hamcke, Elmer W., Brooklyn, assignor, by mesne assignments, to Phelps Dodge Copper Products Corporation, New York, N. Y. Hollow cable. 1,944,864; Jan. 23.
Hamilton, Guy, et al. (See Bellows, Foy E., assignor.)
Hamm, William S., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Sash construction. 1,944,232; Jan. 23.
Hammon, George L., assignor to National Welding Equipment Company, San Francisco, Calif. Valve. 1,944,428; Jan. 23.
Hankins, Cyrus, Washington, D. C. Brake rigging for railway cars. 1,944,509; Jan. 23.
Hann, William E., assignor to Chrysler Corporation, Detroit, Mich. Vibration damper. 1,944,233; Jan. 23.
Hardgrove, Ralph M., Bethlehem, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater boiler and operating the same. 1,944,234; Jan. 23.
Harnaberger, Audley E., and C. L. Smith, assignor to The Pure Oil Company, Chicago, Ill. Oil heater. 1,944,318; Jan. 23.
Harriscolor Films, Inc. (See Fairall, Harry K., assignor.)
Hart, Lester C., Cleveland, Ohio, assignor to Hi-Voltage Equipment Company. Multiple pole switch. 1,944,235; Jan. 23.
Harter, George F., assignor to The Standard Electric Time Company, Springfield, Mass. Impulse clock. 1,944,602; Jan. 23.
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartford-Empire Company. (See Peiler, K. E., and Smith, assignors.)
Hartford-Empire Company. (See Wadman, Harold A., assignor.)
Hartford-Empire Company. (See Willetts, Paul G., assignor.)
Hartry, Earl P., St. Paul, Minn., assignor of one-half to Russell Sabor, Minneapolis, Minn. Automobile body construction. 1,944,429; Jan. 23.
Haslam, Robert T., Westfield, N. J., assignor to Standard-I. G. Company. Simultaneously producing high-grade motor fuels and lubricants from heavy hydrocarbons by the action of hydrogen. 1,944,236; Jan. 23.
Haswell, Arthur B., Birmingham, Ala. Flying cutter. 1,944,710; Jan. 23.
Hatheway, William E. (See Olmstead, Wilbur E., assignor.)
Hayden, Lester N., Arlington, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener attaching machine. 1,944,510; Jan. 23.
Hazelton, George, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of boots and shoes. 1,944,319; Jan. 23.
Hecker, Russell P., Cleveland Heights, Ohio. Theatrical rope locking device. 1,944,603; Jan. 23.
Heil Co., The. (See Eisenberg, Charles G., jr., assignor.)
Heil Co., The. (See Landry, George L., assignor.)
Heineman, Edgar E., Merrill, Wis. Laminated lumber and making the same. 1,944,237; Jan. 23.
Heltzel, John N., Warren, Ohio. Road form. 1,944,511; Jan. 23.
Henderson, Ken L., assignor to United American Bosch Corporation, Springfield, Mass. Combined casing and support. 1,944,687; Jan. 23.
Henderson, William M., Clifton, Idaho. Cutter bar guard. 1,944,644; Jan. 23.
Hendryx, Andrew B., Company, The. (See Meindl, Frank V., assignor.)
Henke, Frederick W., jr., assignor to Fox Automotive Products Corporation, Philadelphia, Pa. Locking means for spare vehicle wheels and the tires thereof. 1,944,512; Hartry, Earl P., St. Paul, assignor of one-half to Henrard, Fernand, Brussels, assignor to Ecremeuses Melotte, Societe Anonyme, Remicourt, Belgium. Lubricating device. 1,944,837; Jan. 23.
Hentrich, Winfrid. (See Ott, K., Hentrich and Keppler.)
Hercules Powder Company. (See Humphrey, Irvin W., assignor.)
Herman, Adolph F., Kansas City, Mo. Holder for towels and the like. 1,944,343; Jan. 23.
Herrick, George. (See Parrish, George L., assignor.)
Hershey, Harry E., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Electrical control system. 1,944,688; Jan. 23.
Hesselman, Knut J. E., Saltsjo-Storangen, near Stockholm, Sweden. Fuel pump for internal-combustion engines. 1,944,320; Jan. 23.
Heston, Allen L., assignor to National Rubber Machinery Company, Akron, Ohio. Tire building form. 1,944,865; Jan. 23.
Heverly, Earl L., Chicago, Ill., assignor to Norton Door Closer Co., Division of Yale & Towne Mfg. Co., New York, N. Y. Movement controlling device. 1,944,689; Jan. 23.
Hickman, Clarence N., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraphone. 1,944,238; Jan. 23.
Higbee, Clarence E., Brooklyn, N. Y. Slip-sheeting attachment for mimeograph or similar apparatus. 1,944,176; Jan. 23.
Higgins, Mark F. (See Nyborg, Tage G., assignor.)
Hill, Frank F., assignor to Union Oil Company of California, Los Angeles, Calif. Method and apparatus for controlling the angle in earth boring. 1,944,838; Jan. 23.
Hi-Voltage Equipment Company. (See Hart, Lester C., assignor.)
Hjerpe, Eric B., Pittsburgh, and W. A. Gruse, Wilkinsburg, assignors to Gulf Refining Company, Pittsburgh, Pa. Manufacture of ethyl chloride from petroleum refinery gas. 1,944,839; Jan. 23.
Hobart Manufacturing Company, The. (See Johnston, Herbert L., assignor.)
Hodshon, Alfred E., Bethel, Conn. Hat construction and method and apparatus for making the same. 1,944,791; Jan. 23.
Hoe, R., & Co. (See Huck, William F., assignor.)
Hofer, Anton, and F. Danninger, assignors to Edward J. Kastenholz, Milwaukee, Wis. Safe. 1,944,430; Jan. 23.
Holbrook, Leslie M., Hollywood, Calif. Door handle. 1,944,642; Jan. 23.
Holmes, Colin W. H., Low Fell, assignor of one-half to The Birtley Iron Company Limited, Birtley, England. Apparatus for separation of dry materials. 1,944,643; Jan. 23.

Holmes, John S., Chicago, Ill., assignor to International Harvester Company. Brake testing device. 1,944,344; Jan. 23.
Holtzman, John, New York, N. Y. Cigar lighter. 1,944,177; Jan. 23.
Holtzman, John, New York, N. Y., assignor, by mesne assignments, to Gillette Safety Razor Company, Boston, Mass. Safety razor. 1,944,604; Jan. 23.
Homerberg, Victor O., Belmont, Mass., assignor to The Nitromal Corporation, Albany, N. Y. Ferrous alloy. 1,944,178; Jan. 23.
Homerberg, Victor O., Belmont, Mass., assignor to The Nitromal Corporation, Albany, N. Y. Ferrous alloy. 1,944,179; Jan. 23.
Honnef, Hermann, Dinglingen, Baden, Germany. Electric wind dynamo. 1,944,239; Jan. 23.
Hope, Samuel N., Wauwatosa, and P. Drath, assignors to Griffith-Hope Company, West Allis, Wis. Paper cup dispenser. 1,944,431; Jan. 23.
House, Eli M., Tampa, Fla. Ladder. 1,944,792; Jan. 23.
Howse, Curtis L., and W. P. Thomas, assignors to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,944,324; Jan. 23.
Huck, William F., Richmond Hill, assignor to R. Hoe & Co., Inc., New York, N. Y.; Irving Trust Company, receiver. Sheet feeding mechanism. 1,944,711; Jan. 23.
Hudson, Edwin B. (See Millan, E. N., and Hudson.)
Hudson, Leo A., Glenbrook Conn. System of remote control. 1,944,326; Jan. 23.
Huffman, William E., Dayton, Ohio. Flight trainer. 1,944,180; Jan. 23.
Hug, Ernst, Neu-Allschwil, near Basel, and M. Müller, assignors to Durand & Huguenin S. A., Basel, Switzerland. Manufacture of azo-dyestuffs. 1,944,645; Jan. 23.
Hughes, Francis P., Philadelphia, Pa. Folding pocket case. 1,944,345; Jan. 23.
Huhn, Walter, Cologne-Mulheim-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Vulcanizing rubber. 1,944,346; Jan. 23.
Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Thermionic cathode lamp and operating the same. Re19,057; Jan. 23.
Humason, Granville A. (See Raymond, W. A., and Humason.)
Humason, Granville A., Houston, assignor of one-half to Margia Manning, Harris County, Tex. Control head for wells. 1,944,840; Jan. 23.
Humason, Granville A., and J. A. Logan, Houston, Tex. Combination casing head and blow-out preventer. 1,944,240; Jan. 23.
Humphrey, Carroll L. (See Lee, R. K., and Humphrey.)
Humphrey, Irvin W., assignor to Hercules Powder Company, Wilmington, Del. Hydrogenated methyl abietate and producing. 1,944,241; Jan. 23.
Hunt, Nathan C., Salem, Ohio. Valve. 1,944,739; Jan. 23.
Hunter, Richard B., Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Control apparatus for electric elevators. 1,944,432; Jan. 23.
Hunyady, Stephen, Bethlen, Hungary. Obtaining aluminum oxide or the like. 1,944,827; Jan. 23.
Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)
Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Combined automatic and manual circuit-control device. 1,944,740; Jan. 23.
Huxter, Walker L. C., Richmond, Va. Ventilator. 1,944,321; Jan. 23.
Hydraulic Brake Company. (See Bowen, Myron W., assignor.)
Hyman, Benjamin M. (See Johnston, E. A., Lindgren, Raney, and Hyman.)
I. G. Farbenindustrie Aktiengesellschaft. (See Ciesen, J., and Peukert, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Diels, O., and Alder, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Huhn, Walter, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Mueller-Cunradi, Martin, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Ott, K., Hentrich, and Keppler, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Remelé, Adolf, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schlecht, L., and Naumann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schonburg, Curt, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Soll, Julius, assignor.)
Imperial Chemical Industries, Limited. (See Baxter, John P., assignor.)
Independence Stove and Furnace Company. (See Crick, Thomas, assignor.)
Independent Air Filter Company. (See Dahlman, Verner, assignor.)
Ingersoll-Rand Company. (See Frelin, Fritjof, assignor.)
Ingersoll-Rand Company. (See Lear, Earl B., assignor.)
Inman, Donovan E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,944,741; Jan. 23.
International Business Machines Corporation. (See Bryce, James W., assignor.)
International Business Machines Corporation. (See Campbell, Charles, assignor.)
International Business Machines Corporation. (See Einstein, Howard C., assigner.)
International Business Machines Corporation. (See Ford, Eugene A., assignor.)
International Business Machines Corporation. (See Maby, Adelbert C., assignor.)
International Business Machines Corporation. (See Oldenboom, Derk J., assignor.)
International Business Machines Corporation. (See Peirce, John R., assignor.)
International Business Machines Corporation. (See Phillips, Burdette H., assignor.)
International Business Machines Corporation. (See Schaaff, John T., assignor.)
International Business Machines Corporation. (See Schumacher, Diedrich F., assignor.)
International Business Machines Corporation. (See Tauschek, Gustav, assignor.)
International Business Machines Corporation. (See Weinlich, Herman A., assignor.)
International Business Machines Corporation. (See Wood, George R., assignor.)
International Business Machines Corporation. (See Ziguelde, Robert, assignor.)
International Cigar Machinery Company. (See Rundell, Rupert R., assignor.)
International Communications Laboratories, Inc. (See Kelley, Leo A., assignor.)
International Communications Laboratories Inc. (See Lewis, Elmer F., assignor.)
International Communications Laboratories, Inc. (See Woodward, Marion H., assignor.)
International Harvester Company. (See Baker, D. B., Rogers, and Panzegrau, assignors.)
International Harvester Company. (See Holmes, John S., assignor.)
International Harvester Company. (See Johnston, E. A., Lindgren, Raney, and Hyman, assignors.)
International Harvester Company. (See Lindgren, A. C., and Raney, assignors.)
International Harvester Company. (See Wamhoff, William F., assignor.)
International Safety Lock Nut Corporation. (See Crowther, George A., assignor.)
International Steel Company. (See Shields, John W., assignor.)
Intertype Corporation. (See Sperry, Samuel E., assignor.)
Irving Air Chute Company. (See Lafayette, Harvey E., assignor.)
Irving Air Chute Company. (See Nichols, Erwin H., assignor.)
Irving Trust Company, receiver. (See Huck, William F., assignor.)
Jacobs, Hiram A. (See Siegel, A. L., and Jacobs.)
Jeschke, Frank J., assignor to Micromatic Hone Corporation, Detroit, Mich. Cylinder honing tool or the like. 1,944,660; Jan. 23.
Johnson, Ends, Morristown, N. J. Marine tractor. 1,944,242; Jan. 23.
Johnson, Gustav, West Roxbury, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Expansion rivet. 1,944,513; Jan. 23.
Johnson, Isaac A., Winona, Minn. Dishwashing machine. 1,944,322; Jan. 23.
Johnson & Johnson. (See Bennett, Frank I., jr., assignor.)
Johnston, Edward A., A. C. Lindgren, Chicago, C. R. Raney, Riverside, and B. M. Hyman, Chicago, Ill., assignors to International Harvester Company. Windrow harvester. 1,944,347; Jan. 23.
Johnston, Herbert L., assignor to The Hobart Manufacturing Company, Troy, Ohio. Food handling apparatus. 1,944,181; Jan. 23.
Jonas, Frank D., East Williston, assignor to Oxford Filing Supply Co., Brooklyn, N. Y. Filing container. 1,944,328; Jan. 23.
Jones, Fred. (See Halliday, A. L., and Jones.)
Jones, Lester L., Oradell, N. J. Resistor. 1,944,558; Jan. 23.
Jones, W. Bartlett, Chicago, Ill. Reproduction of spacially coordinated sight and sound. 1,944,182; Jan. 23.
Joost, John C. (See Miller, C., and Joost.)
Jordanoglou, Alexander. (See Dounis, P. L., and Jordanoglou.)
Juestrich, Max U., Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn. Textile fabric. Des. 91,404; Jan. 23.
Juestrich, Max U., Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn. Textile fabric. Des. 91,405; Jan. 23.
Juestrich, Max U., Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn. Textile fabric. Des. 91,406; Jan. 23.
Kalif Corporation. (See Pike, Robert D., assignor.)
Kalischer, Georg, Frankfort-on-the-Main, and R. Fleischhauer, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Acylated cyclohexyl-phenyl-amines and preparing them. 1,944,514; Jan. 23.
Kalteyer, Frederick J., Philadelphia, Pa. Stropping device. 1,944,793; Jan. 23.
Kalwitz, Herman C., Park Ridge, Ill. Oil filled bus and switch gear. 1,944,661; Jan. 23.

Kanter, Edward, Cleveland Heights, Ohio. Drinking cup or similar article. Des. 91,407; Jan. 23.
Kanter, Edward, Cleveland Heights, Ohio. Pitcher. Des. 91,408; Jan. 23.
Kanter, Edward, Cleveland Heights, Ohio. Goblet. Des. 91,409; Jan. 23.
Karle, John D., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser-foot for zigzag-stitching attachments. 1,944,515; Jan. 23.
Karle, John D., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Embroidery hoop. 1,944,690; Jan. 23.
Karmac, Inc. (See Karnell, Robert D., assignor.)
Karnell, Robert D., assignor to Karmac, Inc., Cleveland, Ohio. Signal chime. Des. 91,393; Jan. 23.
Kast, Edward R., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Sheet or signature delivery mechanism. 1,944,712; Jan. 23.
Kastenholz, Edward J. (See Hofer, A., and Danninger, assignors.)
Kauffman, Walter L., 2d, Youngstown, Ohio. Safety clothes wringer. 1,944,433; Jan. 23.
Kearney & Trecker Corporation. (See Parson, Fred A., assignor.)
Keeler, Edgar G., Long Beach, Calif. Bailer. 1,944,434; Jan. 23.
Kegl, Zoltan J., Hollywood, Calif., and H. M. Larsen, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for controlling characteristics of a liquid. 1,944,243; Jan. 23.
Keller, Andreas R., Lombard, Ill. Agitator. 1,944,742; Jan. 23.
Kelley, Floyd C., Schenectady, N. Y., assignor to General Electric Company. Annealing steel. 1,944,743; Jan. 23.
Kelley, John E., Larchmont, N. Y. Apparatus for applying steam treatments. 1,944,348; Jan. 23.
Kelley, Leo A., Jackson Heights, assignor to International Communications Laboratories, Inc., New York, N. Y. Selective circuits for voice frequency carrier telegraph systems. 1,944,559; Jan. 23.
Kelly, William J., assignor of one-half to Arthur D. Basch, Brooklyn, N. Y. Making shoes. 1,944,560; Jan. 23.
Kempf, Louis W., Lakewood, and I. R. Dawson, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh Pa. Alloy. 1,944,183; Jan. 23.
Kennedy Valve Mfg. Co. (See Banks, Frederick R., assignor.)
Keppler, Helmut. (See Ott, H., Hentrich, and Keppler.)
Kern, Fred M., Detroit, Mich., assignor to Micromatic Hone Corporation. Honing tool. 1,944,662; Jan. 23.
Kerr, Robert M., and H. A. Wolfe, assignors to Detroit Dental Manufacturing Company, Detroit, Mich. Casting machine. 1,944,435; Jan. 23.
Kessler, Charles J. (See Chadwick, L. S., and Kessler.)
Kessler, Charles J. (See Chadwick, L. S., Resek, and Kessler.)
Kilchling, Karl, Freiburg, Germany. Coated metal foil and manufacture thereof. 1,944,323; Jan. 23.
Killelea, Vincent P. (See Zimmerman, F. R., and Killelea.)
Kimball, James L., Danvers, assignor to Ruggles-Klingemann Mfg. Co., Salem, Mass. Operating valves from electric solenoids and the like. 1,944,841; Jan. 23.
Kincaid, Walter W., Oakland, Oreg. Automatic gate. 1,944,349; Jan. 23.
King, George H. (See Rutemiller, O. G., and King.)
King, Harold C., Bronxville, N. Y. Air-craft. 1,944,436; Jan. 23.
King, John L., assignor to Atlanta Harness and Reed Manufacturing Company, Atlanta, Ga. Loom harness and mail eye therefor. 1,944,516; Jan. 23.
Kirchner, Henry P., assignor to The Carborundum Company, Niagara Falls, N. Y. Manufacture of abrasive articles. 1,944,184; Jan. 23.
Kirk, Ernest W. (See Ellis, G. H. Olpin, and Kirk.)
Kislyn Corporation. (See Gregory, Carl L., assignor.)
Kitson Company. (See Lovekin, L. D., and Le Gorre, assignors.)
Klinger, Friedrich, Hamburg, Germany. Continuous production of envelopes, etc. 1,944,794; Jan. 23.
Knapp-Monarch Company. (See Starr, Alden B., assignor.)
Knefel, Raymond A. (See Knefel, Stanley F. and R. A.)
Knefel, Stanley F. and R. A., St. Louis, Mo. Boiler return and vacuum trap. 1,944,437; Jan. 23.
Knoll, Robert. (See Bockmühl, M., and Knoll.)
Knutson, Carl L., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Socket device. 1,944,517; Jan. 23.
Koons, Charles V., assignor to American Engineering Company, Philadelphia, Pa. Hoist. 1,944,713; Jan. 23.
Korn, Franklin A., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,944,244; Jan. 23.
Krause, Conrad B., Cleveland, Ohio. Food preparing machine. 1,944,245; Jan. 23.
Krautheim, William C. (See Hallquist, E. G., and Krautheim.)
Kronenabl, Johann, assignor of part interest to A. Boettger, Munich, Germany. Photographic dark slide device. 1,944,561; Jan. 23.
Kronstein, Abraham, Karlsruhe, assignor to the firm Electra-Lackwerke G. m. b. H. System Dr. Kronstein, Karlsruhe, Germany. Manufacture of insulating material. 1,944,562; Jan. 23.
Kruck, Ralph E., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Air-conditioning cabinet or similar article. Des. 91,394; Jan. 23.
Kruck, Ralph E., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Air-conditioning cabinet or similar article. Des. 91,395; Jan. 23.
Kruesi, Geoffrey G., New York, N. Y., assignor to Federal Telegraph Company, Palo Alto, Calif. Directional radio beam system. 1,944,563; Jan. 23.
Kuhlke, Otto J., assignor to National Rubber Machinery Company, Akron, Ohio. Making molds. 1,944,744; Jan. 23.
Kubner, Max H., Cornwells Heights, Pa., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Air seal for boiler drums. 1,944,350; Jan. 23.
Lack, Fred S., Paducah, Ky., assignor, by mesne assignments, to Tray Service Company, Dallas, Tex. Brace attachment for curb service trays. 1,944,745; Jan. 23.
Lafayette, Harvey E., Waukegan, Ill., assignor to Irving Air Chute Company, Inc., Buffalo, N. Y. Parachute rip cord apparatus. 1,944,795; Jan. 23.
Lamont, Neil C., Edgeworth, Pa., assignor to National Electric Products Corporation, New York, N. Y. Coloring and coating wires and the like. 1,944,823; Jan. 23.
Lamson Company, The. (See Depuy, Louis E., assignor.)
Landon, Vernon D., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Audio-frequency amplifier. 1,944,746; Jan. 23.
Landry, George L., assignor to The Hell Co., Milwaukee, Wis. Hoist mechanism. 1,944,351; Jan. 23.
Lang, Frans, Munich, Germany, assignor to Lanova Aktiengesellschaft, Vaduz, Liechtenstein. Injection engine. 1,944,352; Jan. 23.
Lang, Franz, Munich, Germany, assignor to Lanova Aktiengesellschaft, Vaduz, Liechtenstein. Injection engine. 1,944,605; Jan. 23.
Langell, Carrie E. (See Noble, Leslie D., assignor.)
Langer, Edward J., Portland, Oreg. Trunnion adjustable support. 1,944,185; Jan. 23.
Langhammer, Anthony J., assignor to Chrysler Corporation, Detroit, Mich. Sizing apparatus. 1,944,246; Jan. 23.
Langill, Ross E., assignor to The Prescott Company, Menominee, Mich. Sawmill dog. 1,944,287; Jan. 23.
Langley, Ralph H., assignor to The Crosley Radio Corporation, Cincinnati, Ohio. Potentiometer. 1,944,329; Jan. 23.
Lanova Aktiengesellschaft. (See Lang, Frans, assignor.)
Laport, Edmund A., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Push-pull amplifier. 1,944,747; Jan. 23.
Larsen, Alantser F., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Percolator heater. 1,944,438; Jan. 23.
Larsen, Albrecht, Kenosha, Wis. Liquid dispensing pump. 1,944,288; Jan. 23.
Larsen, Henry M. (See Kegl, Z. J., and Larsen.)
Larsen, Neil P., assignor to American Coach and Body Company, Cleveland, Ohio. Motor vehicle body construction. 1,944,439; Jan. 23.
Lasker, George, Chicago, Ill. Mixing barrier and slag screen. 1,944,330; Jan. 23.
Lastovica, Paul. (See Batsky, A. G., and Lastovica.)
Lawrence, Ottley B., Gaffney, S. C. Vaporizing burner. 1,944,842; Jan. 23.
Leach, Edward A., Schenectady, N. Y., assignor to General Electric Company. Clamping device for water-jacketed power tubes. 1,944,748; Jan. 23.
Lear, Earl B., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Safety device for rock drills. 1,944,247; Jan. 23.
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Lee, James F., Stockton, Calif. Multiple tubular lead-in. 1,944,186; Jan. 23.
Lee, Roger K., and C. L. Humphrey, Highland Park, assignors to Chrysler Corporation, Detroit, Mich. Motor mounting. 1,944,248; Jan. 23.
Le Gorre, Jean L. (See Lovekin, L. D., and Le Gorre.)
Lehman, Louis H., Philadelphia, Pa. Shower bath stall door, shower bath shield, and the like. 1,944,440; Jan. 23.
Lehmann, Meyer, New York, N. Y. Jewelry box and container. 1,944,714; Jan. 23.
Lehnkering, Carl F. (See Osherman, J., assignor, and Marsh.)
LeMay, J. Paul, Casey, Ill. Forced feed faucet for dispensing plastics. 1,944,663; Jan. 23.
Lencke, John K., Kingston, N. Y. Protective device for hose lines. 1,944,249; Jan. 23.
Lengersdorff, Max. (See Lengersdorff, Willey, and M.)
Lengersdorff, Willy and M., Bunslau, Germany. Apparatus for preparing ceramic articles. 1,944,796; Jan. 23.
Leonhauser, Henry A., Baltimore, Md. Spare trolley pole carrier. 1,944,289; Jan. 23.
Leveen, Laurence R. (See Gillette, R. T., and Leveen.)
Levy, Mark H., Los Angeles, Calif. Return bend closure. 1,944,290; Jan. 23.
Lewis, Elmer F., East Orange, N. J., assignor to International Communications Laboratories, Inc., New York, N. Y. Wave meter. 1,944,564; Jan. 23.

Lewis, George C., New Dorp, assignor to Columbian Carbon Company, New York, N. Y. Manufacture of carbon black. 1,944,715; Jan. 23.
Libby, Martha, New Haven, Conn. Device for use in applying lip stick. 1,944,691; Jan. 23.
Lincoln Meter Company. (See Downing, William C., jr., assignor.)
Lindgren, Alexus C. (See Johnston, E. A., Lindgren, Raney, and Hyman.)
Lindgren, Alexus C., Chicago, and C. R. Raney, Riverside, Ill., assignors to International Harvester Company. Windrow harvester. 1,944,750; Jan. 23.
Lindner, Herbert, Berlin, Germany. Apparatus for testing the hardness of grinding disks. 1,944,353; Jan. 23.
Lisle Corporation. (See Bock, Albert E., assignor.)
Little, Charles E., Melrose, Mass. Tool box for hexagonal socket wrenches. 1,944,606; Jan. 23.
Locke Steel Chain Company, The. (See Stegeman, H. J., and Barnes, assignors.)
Loebell, Henry O., Malba, Long Island, assignor to Henry L. Doherty, New York, N. Y. Carbonization apparatus. 1,944,749; Jan. 23.
Logan, James A. (See Humason, G. A., and Logan.)
Lorenz, C., Aktiengesellschaft. (See Schmidt, K., and Schöler.)
Lorenz, James D., Dayton, Ohio. Cabinet for cash registers. Des. 91,396; Jan. 23.
Lorenz, James D., Dayton, Ohio. Cabinet for cash registers. Des. 91,397; Jan. 23.
Lovekin, Luther D., Villanova, and J. L. Le Gorre, assignors to Kitson Company, Philadelphia, Pa. Temperature and pressure relief valve device. 1,944,518; Jan. 23.
Lubs, Herbert A., and G. C. Strouse, assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of sulphur dyes. 1,944,250; Jan. 23.
Luce, Wilhelm. (See Zitscher, A. Morschel, and Luce.)
Ludlow Typograph Company. (See Merrill, Philip P., assignor.)
Ludvigsen, Niels, Paris, France. Photogravure process and metal plate therefor. 1,944,354; Jan. 23.
Lundvall, Erik A. Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Corporation. Bearing. 1,944,291; Jan. 23.
Lyle, Frederick W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Light control systems. 1,944,751; Jan. 23.
Lyon Metal Products, Incorporated. (See Bales, J. E., and Hallberg, assignors.)
Maby, Adelbert C., Jamaica Estates, Long Island, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Perforated card sorting machine. 1,944,692; Jan. 23.
MacGovern, F., Corporation. (See Colbie, Gus L., assignor.)
MacKenzie, Duncan R., Ardsley, N. Y. Closure. 1,944,355; Jan. 23.
MacMillan, Charles W., Boston, Mass. Ink bottle pen filling protector. Re19,061; Jan. 23.
MacNeill, Harris L., Waltham, Mass. Safety razor. 1,944,356; Jan. 23.
MacPherson, Earle S., Grosse Pointe Park, assignor to Hupp Motor Car Corporation, Detroit, Mich. Independent wheel suspension. 1,944,441; Jan. 23.
Madeira, John R., assignor to Goodman Manufacturing Company, Chicago, Ill. Feeding head for reciprocating or jigging conveyers. 1,944,357; Jan. 23.
Mahler, Eugene, and E. Rossbach, Columbus, Ohio. Floor construction. 1,944,292; Jan. 23.
Maish, Morton C., Cincinnati, Ohio. Guard. 1,944,752; Jan. 23.
Majestic Company, The. (See Redrup, Will D., assignor.)
Manning, Margia. (See Humason, Granville A., assignor.)
Manning, Mrs. S. E., administratrix. (See Manning, Sanford E.)
Manning, Sanford E., deceased, by Mrs. S. E. Manning, administratrix, Houston, Tex. Cementing apparatus. 1,944,442; Jan. 23.
Manning, Sanford E., deceased, by Mrs. S. E. Manning, administratrix, Houston, Tex. Apparatus and method of completing well. 1,944,443; Jan. 23.
Mansbendel Fritz P., New York, assignor to Fred Goat Co. Inc., Brooklyn, N. Y. Splicing or tying of rope or the like. 1,944,251; Jan. 23.
Mansbendel, Fritz P., New York, N. Y., assignor to Fred Goat Co., Inc., Brooklyn, N. Y. Rope clamp. 1,944,252; Jan. 23.
Manville Jenckes Corporation. (See Cook, Kenneth B., assignor.)
Marsat, Antoine, Verrieres Le Buisson, France assignor to G. M. Cressaty. Luminous projection. 1,944,187; Jan. 23.
Marsh, Benjamin H. (See Marsh, Daniel W. and B. H.)
Marsh, Charles H. (See Osherman, J., and Marsh.)
Marsh, Daniel W. and B. H., Oakland, Calif. Production of copper sulphate in solution from metallic or scrap copper and dilute sulphuric acid. 1,944,444; Jan. 23.
Marshall, Henry H., Highland Park, assignor by mesne assignments, to Carrier Research Corporation, Newark, N. J. Apparatus for controlling the level of liquids. 1,944,716; Jan. 23.
Martin, Henry F., assignor to Detroit Hoist and Machine Company, Detroit, Mich. Automatically controlled transfer device. 1,944,253; Jan. 23.
Martinez, Michele, London, England. Photographically sensitive element. 1,944,293; Jan. 23.
Marvel Carburetor Co. (See Berry, Otto C., assignor.)
Maschinenfabrik Augsburg-Nurnberg, A. G. (See Brockel, Ernst, assignor.)
Maschinenfabrik Weingarten vorm. Hch. Schatz A. G. (See Wachter, August, assignor.)
Mast, William C., Long Beach, Calif., assignor, by mesne assignments, to Chemical Construction Corporation. Method and apparatus for concentrating sulphuric acid. Re19,064; Jan. 23.
Mathes, Richard E., Westfield, N. J., assignor to Radio Corporation of America. Transmission of printer signals by radio. 1,944,565; Jan. 23.
Mathias, David L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Welding electrode. 1,944,753; Jan. 23.
Matthews, Harold, J. H. Warntjes, E. Arthurs, and W. C. Wilkinson, Calipatria, assignors of one-fourth to San Diego Fruit and Produce Company, San Diego, Calif. Machine for fastening lids to hampers and baskets. 1,944,254; Jan. 23.
Maxcy, Warren G., Oshkosh, Wis. Sandal. 1,944,664; Jan. 23.
Maxwell, Charles T. (See Patchell, S. E., and Maxwell.)
Maybach-Motorenbau G. m. b. H. (See Dorr, Wilhelm E., assignor.)
Maynard, Poole, Atlanta, Ga. Colored mineral products and making the same. 1,944,294; Jan. 23.
McElwain, James R., Kenosha, Wis. Toothbrush. 1,944,797; Jan. 23.
McFall, Thurlow E., and C. H. Warren, Sparta, Mich. Ring holding arbor. 1,944,255; Jan. 23.
McGowen, William R., assignor to The McKay Company, Pittsburgh, Pa. Swing. 1,944,445; Jan. 23.
McGowen, William R., assignor to The McKay Company, Pittsburgh, Pa. Swing. 1,944,446; Jan. 23.
McGuire, Lee R., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Reel for transporting cable. 1,944,188; Jan. 23.
McKay Company, The. (See McGowen, William R., assignor.)
McMurray, Jason H., Buford, Ga. Clasp. 1,944,646; Jan. 23.
McNamara, James G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Thermostatic control device. 1,944,358; Jan. 23.
McVicker, Cleophas, Cincinnati, Ohio. Soap dispenser. 1,944,447; Jan. 23.
Mead, Richard R., Queens Village, N. Y., assignor to Mergenthaler Linotype Company. Slug casting machine. 1,944,359; Jan. 23.
Medina y Pereyra, Luis, Manila, P. I. Twin propeller. 1,944,525; Jan. 23.
Meindl, Frank V., Chicago, Ill., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird cage. 1,944,566; Jan. 23.
Mellor, William, assignor to Henry Disston and Sons Inc., Philadelphia, Pa. Quenching steels. 1,944,798; Jan. 23.
Menough, Paul S. (See Carpenter, O. K., Griffith, and Menough.)
Mergenthaler Linotype Company. (See Mead, Richard R., assignor.)
Mergenthaler Linotype Company. (See McNamara, James G., assignor.)
Merrill, Philip P., Evanston, assignor to Ludlow Typograph Company, Chicago, Ill. Offset aligning type-matrix holder. 1,944,519; Jan. 23.
Mertens, Willy. (See Schäfer, W., and Mertens.)
Meschter, Homer F. (See Calcott, W. S., Parmelee, and Meschter.)
Metal Forms Corporation. (See Miller, George H.)
Metalfoils, Incorporated. (See Perkins, Harry F., assignor.)
Meyer, Adolf, Kusnacht, near Zurich, assignor to Aktiengesellschaft Brown, Boveri and Cie, Baden, Switzerland. Steam turbine. 1,944,520; Jan. 23.
Meyer, Peter, Newark, N. J., assignor to Westinghouse Lamp Company. Article feeding and positioning machine. 1,944,360; Jan. 23.
Micafil Aktiengesellschaft. (See Guhler, Ulrich, assignor.)
Micromatic Hone Corporation. (See Jeschke, Frank J., assignor.)
Micromatic Hone Corporation. (See Kern, Fred M., assignor.)
Miguet, Paul L. J., and M. P. Perron, St. Julien de Maurienne, France. Electric furnace method. 1,944,521; Jan. 23.
Millan, Edward N., and E. B. Hudson, assignors to The American Rolling Mill Company, Middletown, Ohio. Pickling device employing vibration. 1,944,607; Jan. 23.
Miller, Christian, and J. C. Jooset, New York, N. Y., assignors to Edwards and Company, Inc. Push button switch construction. 1,944,522; Jan. 23.
Miller, Clarence W., Detroit, and G. C. Goode, Birmingham, assignors to Chrysler Corporation, Detroit, Mich. Motor bus power unit. 1,944,256; Jan. 23.
Miller, Ernest B., assignor, by mesne assignments, to C. F. Hackley, receiver for The Silica Gel Corporation, Baltimore, Md. Refrigeration. 1,944,799; Jan. 23.
Miller, George H., assignor to Metal Forms Corporation, Milwaukee, Wis. Adjustable curb face. 1,944,257; Jan. 23.

Miller, Joseph H., San Diego, Calif. Music leaf-turning machine. 1,944,295; Jan. 23.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Treatment of coal distillation gases. 1,944,523; Jan. 23.
Millington, Thomas E., Pasadena, Calif. Adjustable lens holder. 1,944,567; Jan. 23.
Millner, Theodore, Ujpest by Budapest, Hungary, assignor, by mesne assignments, to General Electric Company. Electric incandescent lamp. 1,944,825; Jan. 23.
Mills Company, The. (See Winslow, Edward N., assignor.)
Mirau, Hans, Radebeul, assignor to Chemische Fabrik von Heyden, A. G., Radebeul, near Dresden, Germany. Manufacture of aromatic sulphodihalogenamides. 1,944,568; Jan. 23.
Mitchell, Frank A., London, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Sound reproducing instrument. 1,944,258; Jan. 23.
Mitchell, John J. (See Wutzke, W. W., and Mitchell.)
Mohawk Carpet Mills, Inc. (See Underwood, Garfield J., assignor.)
Moir, Kenneth N., Los Angeles, assignor, by mesne assignments, to Aerial Advertising Company, Inc., San Francisco, Calif. Advertising apparatus. 1,944,448; Jan. 23.
Möller, Olov. (See Wiberg, O. A., and Möller.)
Montgomery, Terryl B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Regulator system. 1,944,189; Jan. 23.
Moore, Harry W., Dayton, Ohio. Marking device. 1,944,259; Jan. 23.
Morgan, John S., jr. (See Rice, A. E., and Morgan, jr.)
Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)
Morrow, Barney J. (See Pforsich, Allen F., assignor.)
Morschel, Heinrich. (See Zitscher, A., Morschel, and Luce.)
Morton, Harold A., Akron, Ohio. Condensation products of alpha-ethyl hexene aldehyde and primary amines and producing same. 1,944,843; Jan. 23.
Moss, Elias. (See Newmark, M., and Moss.)
Motor Wheel Corporation. (See Stough, Charles R., assignor.)
Mouromtseff, Ilia E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum tube. 1,944,190; Jan. 23.
Mueller-Cunradi, Martin, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of diolefines. 1,944,153; Jan. 23.
Müller, Max. (See Hug, E., and Müller.)
Mullin, Andrew B., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Splice vulcanizing apparatus. 1,944,754; Jan. 23.
Munro, James R., assignor to Caterpillar Tractor Co., San Leandro, Calif. Metallurgical apparatus. 1,944,449; Jan. 23.
Mulhern, William A., assignor to Chrysler Corporation, Detroit, Mich. Brake drum. 1,944,261; Jan. 23.
Murray Corporation of America, The. (See Northup, Amos E., assignor.)
Muth, Herbert, assignor, to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Support for high frequency apparatus. 1,944,262; Jan. 23.
Myers, Bon E., assignor to Sioux Metal Products Company, Sioux City, Iowa. Sash control for sliding windows. 1,944,450; Jan. 23.
Myers, Joseph S., Oakland, Calif. Windshield cleaner. 1,944,260; Jan. 23.
N. V. Philips' Gloeilampenfabrieken. (See van Liempt, Johannes A. M., assignor.)
National Electric Products Corporation. (See Calderwood, Hugh A., assignor.)
National Electric Products Corporation. (See Church, W. W., and Robinson, assignors.)
National Electric Products Corporation. (See Clayton, Martin M., assignor.)
National Electric Products Corporation. (See Lamont, Neil C., assignor.)
National Machinery Company, The. (See Clouse, William L., assignor.)
National Malleable and Steel Castings Company. (See Buckius, Albert O., assignor.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
National Rubber Machinery Company. (See Heston, Allen L., assignor.)
National Rubber Machinery Company. (See Kuhlke, Otto J., assignor.)
National Supply Company, The. (See Rice, A. E., and Morgan, jr., assignors.)
National Welding Equipment Company. (See Hammon, George L., assignor.)
Naumann, Max. (See Schlecht, L., and Naumann.)
Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Piston. 1,944,361; Jan. 23.
Neuland, Alfons H., Irvington, N. J., assignor, by mesne assignments, to Electrogear Corporation. Power transmission device. Re19,063; Jan. 23.
Newcomer, Harry S., New York, N. Y. Photographic objective. Re19,056; Jan. 23.
Newman, Horace L., New York, N. Y. Infant's and child's restraining jacket. 1,944,451; Jan. 23.
Newmark, Morris, and E. Moss, New York, N. Y. Lubricating device. 1,944,191; Jan. 23.
News Projection Corporation. (See Eitzen, August D., assignor.)
Nichols, Ernest H., Hagerstown, Md. Roofing granule. 1,944,800; Jan. 23.
Nichols, Edwin H., Brooks Field, Tex., assignor to Irving Air Chute Company, Inc., Buffalo, N. Y. Parachute apparatus. 1,944,801; Jan. 23.
Nichols, Harold W. (See Butterfield, C., and Nichols.)
Nielsen, Niels, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Grinding in tube mills and the like. 1,944,755; Jan. 23.
Nitromal Corporation, The. (See Homerberg, Victor O., assignor.)
Noble, Leslie D., Detroit, assignor to Carrie E. Langell, St. Clair, Mich. Adjustable foot support. 1,944,608; Jan. 23.
Noblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)
Norris, Andrew M., et al. (See Norris, David L., sr., assignor.)
Norris, David L., jr., et al. (See Norris, David L., sr., assignor.)
Norris, David L., sr., assignor of one-fourth to D. L. Norris, jr., R. M. Norris, A. M. Norris and A. Chambers, Greenville, S. C. Automatically threading loom shuttle. 1,944,802; Jan. 23.
Norris, Robert McK., et al. (See Norris, David L., sr., assignor.)
Northern Malleable Iron Company. (See Cummins, T. K., and Emry, assignors.)
Northup, Amos E., Pleasant Ridge, assignor to The Murray Corporation of America, Detroit, Mich. Automobile body. Des. 91,410; Jan. 23.
Norton Door Closer Co., Division of Yale & Towne Mfg. Co. (See Heverly, Earl L., assignor.)
Nyborg, Tage G., assignor of one-half to M. F. Higgins, Worcester, Mass. Belt drive. 1,944,296; Jan. 23.
Nygaard, Oscar, Saugus, Mass. Water cooled furnace walls. 1,944,569; Jan. 23.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Distortion correcting for transmission lines. 1,944,297; Jan. 23.
Oberhoffken, Alexander, assignor to Production Engineering Company, Detroit, Mich. Hydraulic feed for machine tools. 1,944,362; Jan. 23.
Ochs, Erle J. Painesville, Ohio. Apparatus for treating slurry. 1,944,452; Jan. 23.
Ohio Brass Company, The. (See Dippman, Fred R., assignor.)
Ohio Brass Company, The. (See Pipes, Pliny P., assignor.)
Ohnstrand, Enoch, Kenmore, assignor to Remington Rand Inc., Buffalo, N. Y. Insulated furniture construction. 1,944 263; Jan. 23.
Oil Corporation of America. (See Darlington, Homer T., assignor.)
Oldenboom, Derk J., Woodbridge, N. J., assignor, by mesne assignments to International Business Machinery Corporation, New York, N. Y. Multiplying machine with improved checking features. 1,944,665; Jan. 23.
Oliver, Ernest C., Cheshire England, assignor to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 1,944,693; Jan. 23.
Oliver Farm Equipment Company. (See Dickinson, Harry S., assignor.)
Olmstead, Wilbur E., assignor to W. E. Hatheway, Bridgeport, Conn. Webbing buckle. 1,944,453; Jan. 23.
Olpin, Henry C. (See Ellis, G. H., Olpin, and Kirk.)
Olsen, Oleander L., Fairview, Mont. Valve actuating mechanism. 1,944,826; Jan. 23.
Olson, Axel H., and Sten D. Vigren, Stockholm, Sweden. Arrangement relating to automatic telephone systems. 1,944,570; Jan. 23.
Olson, Samuel, Oak Park, Ill. assignor, by mesne assignments, to G & G Atlas Systems, Inc., New York, N. Y. Control device for pneumatic dispatch tube apparatus. 1,944,363; Jan. 23.
Oltarsh, J. (See Reiman, Paul, assignor.)
Oltarsh, J. (See Willheim,William, assignor.)
Oravec Stephen A., and M. J. Shedlock, Detroit, Mich. 1,944,264; Jan. 23.
Orioli, Ernesto, Milan, Italy, assignor to Ruth-Aldo Company, Incorporated, New York, N. Y. Nozzle intended for spinning artificial silk. 1,944,298; Jan. 23.
Orioli, Ernesto, Milan, Italy, assignor to Ruth-Aldo Company, Inc. Process and apparatus for dry spinning artificial silk. 1,944,299; Jan. 23.
Ornstein, Georg, Berlin, Germany. Water treatment. 1,944,803; Jan. 23.
Ornstein, Georg, Berlin, Germany. Method and device for purifying aqueous liquids by treatment with chlorine. 1,944,804; Jan. 23.
Osborne, Harld A., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welting. 1,944,805; Jan. 23.
Osherman, Jack, and C. H. Marsh, said Osherman assignor to C. F. Lehnkering, Los Angeles, Calif. Stacking loaded butter cube plates. 1,944,827; Jan. 23.
Osterberg, Gustav M. Harrington Park, N. J. Rail oiler. 1,944,666; Jan. 23.

Ott, Karl, Leverkusen-on-the-Rhine, W. Hentrich, Erlangen, and H. Keppler, Cologne-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Aliphatic amine sulphonic acid containing eight or more carbon atoms. 1,944,300; Jan. 23.
Ottersland, Peter N. (See Valentine, C. W., Otteraland, and Fairbanks.)
Oxford Filing Supply Co. (See Jones, Frank D., assignor.)
Oxford Varnish Corporation. (See von Webern, Guido, assignor.)
Packer, Oswald F., assignor to Stearns-Stafford Roller Bearing Company, Lawton, Mich. Roller bearing. 1,944,364; Jan. 23.
Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,411; Jan. 23.
Palm, John V. O., Cleveland Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing manufacture. 1,944,609; Jan. 23.
Panzegrau, Norman O. (See Baker, D. B., Rogers, and Panzegrau.)
Paper Service Company, The. (See Rowe, William W., assignor.)
Park, Thomas, Long Branch, Ontario, Canada. Pneumatic curtain control for motor cars. 1,944,454; Jan. 23.
Parmelee, Alfred E. (See Calcott, W. S., Parmelee, and Meschter.)
Parrish, George L., assignor of one-half to G. Herrick, Williamsport Pa. Guiding attachment for band saws. 1,944,524; Jan. 23.
Parsons, Fred A., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine tool transmission and control mechanism. 1,944,455; Jan. 23.
Patchell, Sarah E., and C. T. Maxwell, Spokane, Wash. Electrical cooking appliance. 1,944,365; Jan. 23.
Pearce, Louis M. (See Church, W. L., Pearce, and Clark.)
Pearce, W. L. (See Church, Walter L., assignor.)
Pearson, Carl A., Denver, Colo. Valve construction. 1,944,456; Jan. 23.
Peerless Novelty Company. (See Schaffner, George H., assignor.)
Peiler, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for forming glassware. 1,944,866; Jan. 23.
Peiler, Karl E., West Hartford, and A. J. Smith, Bloomfield, assignors to Hartford-Empire Company, Hartford, Conn. Apparatus for forming glassware. 1,944,844; Jan. 23.
Peirce, John R., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Tabulating machine. 1,944,667; Jan. 23.
Pennsylvania Salt Manufacturing Company. (See Bender, Harry, assignor.)
Percy, Edwin H., Fort Bragg, Calif., assignor, by mesne assignments, to The Prescott Company. Power-operated dogging mechanism. 1,944,286; Jan. 23.
Perfection Stove Company. (See Chadwick, L. S., and Kesaler, assignors.)
Perfection Stove Company. (See Chadwick, L. S., Resek, and Kessler, assignors.)
Perkins, Harry F., Clayton, assignor to Metalfoils, Incorporated, St. Louis, Mo. Metallic protective sheathing for surfaces and applying metal foil. 1,944,457; Jan. 23.
Perkins, Lester A., and A. C. Wilson, Centerville, Iowa. Lid for milk cans or like. 1,944,458; Jan. 23.
Perron, Arthur J., Lowell, Mass. Shoddy-picker. 1,944,526; Jan. 23.
Perron, Marcel P. (See Miguet, P. L. J., and Perron.)
Person, August B., San Francisco, Calif. Drop cloth holder. 1,944,610; Jan. 23.
Peterson, Edward S., Elmwood, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,944,694; Jan. 23.
Petit, René, assignor to Societe des Schistes et Petroles de Franche Comte, Luxeuil les Baines, France. Apparatus for the distillation of bituminous schists. 1,944,647; Jan. 23.
Petroleum Conversion Corporation. (See Beardsley, Edwin W., assignor.)
Peukert, Ernst. (See Giesen, J., and Peukert.)
Pfaendler, Emil. Olten, Switzerland. Manufacturing vessels and the apparatus used. 1,944,527; Jan. 23.
Pfager, Harry M., St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Locomotive structure. 1,944,459; Jan. 23.
Pforsich, Allen F., assignor of one-half to B. J. Morrow, Glassport, Pa. Bottle or container receiver. 1,944,806; Jan. 23.
Phelps Dodge Copper Products Corporation. (See Hamcke, Elmer W., assignor.)
Phillips, Burdette H., Endicott, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Time stamp. 1,944,695; Jan. 23.
Phillips, Paul D., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Snap-on holder. 1,944,717; Jan. 23.
Phillips Petroleum Company. (See Frey, Frederick E., assignor.)
Photostat Corporation. (See Greene, John S., assignor.)
Pike, Robert D., Piedmont, assignor to Kalif Corporation, Emeryville, Calif. Centrifugal casting device. 1,944,460; Jan. 23.
Pike, Robert D., Diablo, assignor to Kalif Corporation, Emeryville, Calif. Centrifugal casting. 1,944,461; Jan. 23.
Pilorz, Bruno, Honolulu, Territory of Hawaii, assignor to California Packing Corporation, San Francisco, Calif. Food product. 1,944,265; Jan. 23.
Pioneer Instrument Company. (See Urfer, Adolf, assignor.)
Pipes, Pliny P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail bond. 1,944,366; Jan. 23.
Plant Rubber & Asbestos Works. (See Rosener, Leland S., assignor.)
Plastic Products Engineering Corporation. (See Rahm, Walter E., assignor.)
Pohl, Theodor, Frankfort-on-the-Main, and J. Schneider, Oberursel, Germany. Producing grinding bodies. 1,944,807; Jan. 23.
Pollock, William B., Company, The. (See de Fries, Walter, assignor.)
Poppenhauser, Ferdinand, assignor to Towle Manufacturing Company, Newburyport, Mass. Plate or article of analogous nature. Des. 91,398; Jan. 23.
Poppenhauser, Ferdinand, assignor to Towle Manufacturing Company, Newburyport, Mass. Plate or article of analogous nature. Des. 91,399; Jan. 23.
Pott, Rainer H., Prien near Munich, assignor to Chemische Fabrik Pott & Co., Kommandit-Gesellschaft, Dresden, Germany. Composition for treating crude fibers and textile fabrics. 1,944,367; Jan. 23.
Potter, Harold B., assignor of one-fifth to C. O. Gill and one-fifth to G. S. Gilman, Sioux City, Iowa. Wheel holder. 1,944,266; Jan. 23.
Prescott Company, The. (See Haase, Adolph L., assignor.)
Prescott Company, The. (See Langill, Ross E., assignor.)
Prescott Company, The. (See Percy, Edwin H., assignor.)
Prifold, George, assignor to The Cott-a-Lap Company, Somerville, N. J. Surface ornamentation and apparatus for same. 1,944,528; Jan. 23.
Primrose, George A., Oakland, Calif., assignor to General Motors Corporation, Detroit, Mich. Striping pencil. 1,944,368; Jan. 23.
Production Engineering Company. (See Oberhoffken, Alexander, assignor.)
Prosperity Company, The. (See Schremp, Edward J., assignor.)
Purdy, Emmett G., Detroit, Mich., assignor to Detroit Body Die Company. Motor vehicle. 1,944,668; Jan. 23.
Purdy, Emmett G., Detroit, Mich., assignor to Detroit Body Die Company. Reel. 1,944,669; Jan. 23.
Pure Oil Company, The. (See Harnsberger, A. E., and Smith, assignors.)
Purvis, Leonard L. (See Waters, W. C., Purvis, and Taylor.)
Quarles, Lawrence R., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating system. 1,944,756; Jan. 23.
Radio Corporation of America. (See Mathes, Richard E., assignor.)
Radio Corporation of America. (See Roberts, Walter V., assignor.)
Radio Patents Corporation. (See Dubilier, William, assignor.)
Rafter, Albert, assignor to Rafter Machine Company, Belleville, N. J. Device for severing continuously moving articles into desired lengths. 1,944,718; Jan. 23.
Rafter Machine Company. (See Rafter, Albert, assignor.)
Rahm, Walter E., Montclair, N. J., assignor to Plastic Products Engineering Corporation. Molding machine. 1,944,571; Jan. 23.
Randall, Lucius Y., Gaffney, S. C. Dobby drive. 1,944,369; Jan. 23.
Raney, Clemma R. (See Johnston, E. A., Lindgren, Raney, and Hyman.)
Raney, Clemma R. (See Lindgren, A. C., and Raney.)
Rathbun, Ross B., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Filtering. 1,944,267; Jan. 23.
Rathbun, Ross B., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Apparatus for cleaning bags. 1,944,268; Jan. 23.
Rawlings, John J., South Kensington, London, assignor to The Rawlplug Company Limited, London, England. Percussive hand tool. 1,944,572; Jan. 23.
Rawlplug Company Limited, The. (See Rawlings, John J., assignor.)
Raymond, William A., and G. A. Humason, Houston, Tex. Control head. 1,944,573; Jan. 23.
Raynolds, John F., assignor to The Unipress Company, Incorporated, Minneapolis, Minn. Fluid pressure control apparatus for pressing machines. 1,944,462; Jan. 23.
Raynsford, Arthur, Bergenfield, and W. T. Haines, Mountain Lakes, N. J.; said Raynsford assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., and said Haines assignor to American Telephone and Telegraph Company. Telephone system. 1,944,269; Jan. 23.
Reaney, Russell J., Ottawa, Ontario, Canada. Gear mechanism. 1,944,370; Jan. 23.
Redrup, Will D., assignor to Majestic Company, Huntington, Ind. Folding door construction. 1,944,670; Jan. 23.

Reeve, Weltha, Irvington, N. J. Vacuum cleaner. 1,944,270; Jan. 23.

Regenauer, Adolph, and F. E. Reynolds, Waukegan, Ill.; said Reynolds assignor to said Regenauer. Electric socket connection. 1,944,719; Jan. 23.

Reichl, Ernst, New York, N. Y. Folding panel device. 1,944,696; Jan. 23.

Reiman, Paul, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,412; Jan. 23.

Reiman, Paul, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,413; Jan. 23.

Reinartz, Leo F., and C. R. Fon Dersmith, assignors to The American Rolling Mill Company, Middletown, Ohio. Nozzle for pouring molten metal. 1,944,611; Jan. 23.

Reliance Specialties Manufacturing Co. (See Cohan, Morris J., assignor.)

Remelé, Adolf, Saudersdorf, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing bleaching powder. 1,944,301; Jan. 23.

Remington Rand Inc. (See Ohnstrand, Enoch, assignor.)

Repeck, Frank, Detroit, Mich. Differential carrier. 1,944,612; Jan. 23.

Resek, Marc. (See Chadwick, L. S., Resek, and Kessler.)

Reske, Charles H., San Francisco, Calif. Clothesline attachment. 1,944,808; Jan. 23.

Reynolds, Francis E. (See Regenauer, A., and Reynolds.)

Rice, Allen E., Palos Verdes, and J. S. Morgan, jr., Inglewood, Calif., assignors to The National Supply Company, Toledo, Ohio. Single shaft gear driven drawworks. 1,944,463; Jan. 23.

Richardson, Linwood T., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Treating plastic molding compositions including a fibrous filler and an organic binder. 1,944,464; Jan. 23.

Ricks, Fred, and E. F. Towndrow, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Buffing tool. 1,944,302; Jan. 23.

Rickwood, Rowland L., Cincinnati, Ohio, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Skid. 1,944,845; Jan. 23.

Riddell, William A., assignor to The Frederick Iron & Steel Company, Frederick, Md. Apparatus for producing coke and gas. 1,944,192; Jan. 23.

Riedling, John H., Memphis, Tenn. Lint stripper. 1,944,271; Jan. 23.

Riley Stoker Corporation. (See Kuhner, Max H., assignor.)

Ritter, Matthew, Oakland, Calif. Combined service tray and stand. 1,944,757; Jan. 23.

Ritz, Frederick, Beloit, Wis. Injector. 1,944,371; Jan. 23.

Rivat, George, Paterson, N. J., assignor to Celanese Corporation of America. Printing. 1,944,372; Jan. 23.

Roberts, Grant W., Baltimore, Md. Display sign for bottled products. Des. 91,400; Jan. 23.

Roberts, Paul I., Caliente, Nev., assignor of one-half to C. O. Sportsman. Flange oiler. 1,944,272; Jan. 23.

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Positive grid bias. 1,944,574; Jan. 23.

Robinson, Albert E., assignor to The American Tool Works Company, Cincinnati, Ohio. Lubricating means for metal shaping machines. 1,944,828; Jan. 23.

Robinson, Joseph, New York, N. Y., assignor of one-half to R. M. Wolvin, Montreal, Quebec, Canada. Automatic train pipe connecter. 1,944,193; Jan. 23.

Robinson, William C. (See Church, W. W., and Robinson.)

Rockwell, Edward A., Chicago, Ill. Fuel pump. 1,944,575; Jan. 23.

Roepke, William J., Los Angeles, Calif. Combination road lighting and reflecting safety device for motor vehicles. 1,944,576; Jan. 23.

Rogers, Clifford R. (See Baker, D. B., Rogers, and Panzegrau.)

Rogers, Ralph L., Knoxville, Tenn., assignor to The General Automatic Merchandising Corporation. Beverage vending machine. 1,944,809; Jan. 23.

Rogers, Ralph L., Knoxville, Tenn., assignor to The General Automatic Merchandising Corporation. Sanitary attachment for beverage vending machines. 1,944,810; Jan. 23.

Rogers, Ralph L., jr., assignor to The General Automatic Merchandising Corporation, Knoxville, Tenn. Beverage dispensing machine. 1,944,811; Jan. 23.

Rola Company, The. (See Tenny, Henry S., assignor.)

Roper, Geo. D., Corporation. (See Copilovich, Jacob, assignor.)

Rose, Alfred G., Lincoln, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Machine or apparatus for cutting plastic toffee or like material. 1,944,577; Jan. 23.

Rose Brothers (Gainsborough) Limited. (See Rose, Alfred G., assignor.)

Rosener, Leland S., assignor to Plant Rubber & Asbestos Works, San Francisco, Calif. Machine for making tubes. 1,944,465; Jan. 23.

Rossbach, Erwin. (See Mahler, E. and Rossbach.)

Roux, Adrian P., Oriskany, assignor to General Cable Corporation, New York, N. Y. Making drawing dies. 1,944,758; Jan. 23.

Roux, Adrian P., Oriskany, assignor to General Cable Corporation, New York, N. Y. Drawing die. 1,944,759; Jan. 23.

Rowe, William W., Cincinnati assignor to The Paper Service Company, Lockland, Ohio. Construction of bags. 1,944,613; Jan. 23.

Rubin, Benjamin C., New York, N. Y. Pneumatic mattress. 1,944,466; Jan. 23.

Ruggles-Klingemann Mfg. Co. (See Kimball, James L., assignor.)

Rundell, Rupert E., Rockville Center, N. Y., assignor to International Cigar Machinery Company. Cigar bunch rolling and shaping machine. 1,944,760; Jan. 23.

Ruppel, Sigwart, Frankfort-on-the-Main, Germany. Control system. 1,944,846; Jan. 23.

Rush, Philip A., Memphis, Tenn. Coffee making method and apparatus. 1,944,303; Jan. 23.

Rutemiller, Oren G., and G. E. King, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Reversible spring reset limit switch. 1,944,761; Jan. 23.

Ruth-Aldo Company. (See Orioli, Ernesto, assignor.)

Ruth-Aldo Company. (See Thenoz, Raymond A. J., assignor.)

Rutherford, George S., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Lubricating compound. 1,944,273; Jan. 23.

Sahin, Elmore E., Oakland, Calif. Gas bag envelope for aircraft. 1,944,467; Jan. 23.

Sabor, Russell. (See Hartry, Earl P., assignor.)

Sackville, William, Berkeley, Calif. Radiant energy detector. 1,944,194; Jan. 23.

Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)

Safety Grinding Wheel & Machine Company, The. (See Vance, George E., assignor.)

St. Clair, Clinton D., assignor to Erie City Iron Works, Erie, Pa. Pulverizer. 1,944,474; Jan. 23.

St. Clair Rubber Company. (See Strobel, Clarence J., assignor.)

St. Joseph Iron Works. (See Schmidtke, Albert H., assignor.)

St. Louis Structural Steel Company. (See Barnes, William F., assignor.)

St. Mary's College. (See Braeg, Herman E., assignor.)

Salisbury, William S., San Francisco, Calif. Locking seal for vehicle license plates. 1,944,195; Jan. 23.

Salmon, James P., Philadelphia, Pa. Upholstery construction. 1,944,614; Jan. 23.

Salmon, Reginald D., assignor to Creed and Company, Limited, Croydon, England. Adjusting field strength in electromagnetic devices. 1,944,578; Jan. 23.

Salvati, Carlo, Brooklyn, N. Y. Electrical connecter. 1,944,697; Jan. 23.

Salzberg, Paul L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating chemical compounds. 1,944,274; Jan. 23.

Sandeen, Ernest C., St. Paul, Minn. Disk harrow. 1,944,275; Jan. 23.

Sandell, Edward W., Los Angeles, Calif. Protractor. 1,944,812; Jan. 23.

San Diego Consolidated Gas and Electric Company. (See Goldkamp, Otto B., assignor.)

San Diego Fruit and Produce Company. (See Matthews, H., Warntjes, Arthurs, and Wilkinson.)

Sandin, Jerome, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Expulsion fuse. 1,944,762; Jan. 23.

Saraceno, Joseph B., Bloomfield, Conn. Ball joint electrical connection. 1,944,196; Jan. 23.

Satsky, Anthone G., Smithville, and P. Lastovica, Flatonia, Tex. Manure distributor. 1,944,847; Jan. 23.

Saussard, Louis, Paris, France, assignor to Societe Anonyme pour tous Appareillages Mecaniques, Levallois Perret, France. Pump. 1,944,648; Jan. 23.

Scarnegie, Daniel A., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Workholder. 1,944,304; Jan. 23.

Schaaff, John T., Washington, D. C., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Record perforating device. 1,944,671; Jan. 23.

Schaeffer, John, assignor to The Van Brunt Manufacturing Company, Horicon, Wis. Grain drill. 1,944,672; Jan. 23.

Schäfer, Wilhelm, and W. Mertens, assignors to Ers- und Kohle-Flotation Gesellschaft mit beschrankter Haftung, Bochum, Germany. Flotation process. 1,944,529; Jan. 23.

Schaffner, George H., Detroit, assignor to Peerless Novelty Company, Grand Haven, Mich. Antiglare device. 1,944,468; Jan. 23.

Scheibe, Paul, Cologne-on-the-Rhine, Germany. Mangling roller. 1,944,373; Jan. 23.

Scheidt, Alfred W., Sewaren, N. J., assignor to The Electric Smelting & Aluminum Company, Cleveland, Ohio. Shaping and cooling hot liquid detergents. 1,944,848; Jan. 23.

Schepmoes, Lindsley, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Illuminated sign construction. 1,944,276; Jan. 23.

Schering-Kahlbaum A. G. (See Dohrn, M., and Diedrich, assignors.)

Schillo, Louis C., Chicago, Ill., assignor, by mesne assignments, to Asphalt Process Corporation, New York, N. Y. One-piece cutter. Re19,059; Jan. 23.

Schlage Lock Co. (See Schlage, Walter R., assignor.)

Schlage, Walter R., assignor to Schlage Lock Co., San Francisco, Calif. Doorlock indicator. 1,944,469; Jan. 23.

Schlage, Walter R., assignor to Schlage Lock Co., San Francisco, Calif. Entrance doorlock. 1,944,470; Jan. 23.

Schlecht, Leo. and M. Naumann, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of metal carbonyls. 1,944,849; Jan. 23.

Schmid, Fritz, Oberhausen, Germany. Manufacture of paints, enamels, etc. 1,944,818; Jan. 23.

Schmidt, John H., Bloomfield, and R. S. Daniels, Newark, N. J., assignors to Bakelite Corporation, New York, N. Y. Resin solution and preparing same. 1,944,867; Jan. 23.

Schmidt, Karl, Berlin-Lichtenrade, and K. Schöler, Berlin-Ruhleben, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Synchronous alternating current motor. 1,944,579; Jan. 23.

Schmidt, Thomas B., Harrisburg, Pa. Box or carton. 1,944,805; Jan. 23.

Schmidtke, Albert H., assignor to St. Joseph Iron Works, St. Joseph, Mich. Conveyer chain. 1,944,374; Jan. 23.

Schneider, Emil, Philadelphia, Pa. Humidifier. 1,944,875; Jan. 23.

Schneider, Ernst, Bad Kreuznach, Germany, assignor to Benjamin H. Stern, New York, N. Y. Shoe and making the same. 1,944,763; Jan. 23.

Schneider, Josef. (See Pohl, T., and Schneider.)

Schoeffel, Erwin G. (See Doerschuk, V. C., and Schoeffel.)

Schoepfer, Alfred C., Flint, Mich. Producing laminated glass. 1,944,277; Jan. 23.

Schöler, Kurt. (See Schmidt, K., and Schöler.)

Schönburg, Curt, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Phospheric acid ester. 1,944,530; Jan. 23.

Schönfeld, Paul, Chemnitz, Germany. Transferring device. 1,944,615; Jan. 23.

Schorno, Ferdinand L., Delawanna, N. J. Automatic brake torque equalizer. 1,944,814; Jan. 23.

Schremp, Edward J., Flushing, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc. Hosiery press. 1,944,376; Jan. 23.

Schuler, Adam F., Philadelphia, Pa. Jacquard mechanism. 1,944,815; Jan. 23.

Schultz, Hermann, Berlin, Germany. Refractory lining for crubles and the like. 1,944,278; Jan. 23.

Schumacher, Diedrich F., Berlin-Britz, Germany, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Paper feeding mechanism. 1,944,673; Jan. 23.

Schweiss, Joseph, assignor to Carter Carburetor Corporation, St. Louis, Mo. Operating lever. 1,944,531; Jan. 23.

Searle, Dudley F. (See Andersen, Waldemar F., assignor.)

Seeger, Edwin W., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Control system for electric elevators. 1,944,471; Jan. 23.

Self, Grafton H., assignor of one-half to Andrew J. Bockwitz, Twin Falls, Idaho. Bean harvester. 1,944,829; Jan. 23.

Sell, Helmut, assignor to Siemens & Halske, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Microphone for the deaf. 1,944,720; Jan. 23.

Sell, Helmut, Berlin-Siemensstadt, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Control device for electric currents. 1,944,721; Jan. 23.

Shaw, Percy G., Bridgeport, Conn., assignor to General Electric Company. Electric switch. 1,944,764; Jan. 23.

Shedlock, Michael J. (See Oravec, S. A., and Shedlock.)

Sheldon, Edgar H., assignor to E. H. Sheldon & Company, Muskegon, Mich. Desk structure. 1,944,765; Jan. 23.

Sheldon, E. H., & Company. (See Sheldon, Edgar H., assignor.)

Shell Development Company. (See vanPeski, Adrianus J., assignor.)

Shields, John A., assignor to International Steel Company, Evansville, Ind. Pressure release for revolving doors. 1,944,197; Jan. 23.

Sidebotham, Melvin H., West Newton, assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making laundry bags. 1,944,532; Jan. 23.

Siegel, A. L., Co. (See Siegel, A. L., and Jacobs, assignors.)

Siegel, Abraham L., Brooklyn, N. Y., and H. A. Jacobs, Minneapolis, Minn., assignors to A. L. Siegel Co., Inc., New York, N. Y. Case for toilet articles. Des. 91,414; Jan. 23.

Siemens & Halske Aktiengesellschaft. (See Ehricke, Erich, assignor.)

Siemens & Halske, Aktiengesellschaft. (See Sell, Helmut, assignor.)

Siemens & Halske Aktiengesellschaft. (See Strecker, Felix, assignor.)

Siemens & Halske Aktiengesellschaft. (See Weeber, O., and Soldan, assignors.)

Sigoda, Victor J., Brooklyn, N. Y. Pinking attachment for sewing machines. 1,944,580; Jan. 23.

Silica Gel Corporation, The. (See Miller, Ernest B., assignor.)

Silver, Walter H., assignor to Deere & Company, Moline, Ill. Plow. 1,944,674; Jan. 23.

Simpson, James, assignor to Abingdon Sanitary Mfg. Co., Abingdon, Ill. Sanitary plumbing connection. 1,944,850; Jan. 23.

Singer Manufacturing Company, The. (See Card, Frederic M., assignor.)

Singer Manufacturing Company, The. (See Karle, John D., assignor.)

Sloux Metal Products Company. (See Myers, Bon E., assignor.)

Skelton, Owen R., Grosse Pointe, assignor to Chrysler Corporation, Detroit, Mich. Air cleaner. 1,944,279; Jan. 23.

Skoia, Vladimir, Aussig-on-the-Elbe, Czechoslovakia, assignor, by mesne assignments, to Corning Glass Works, Corning, N. Y. Making cast compact ceramic products. 1,944,616; Jan. 23.

Sloun, Harry E., S. H. Baars, and C. G. Bach, assignors to The Vilter Manufacturing Company, Milwaukee, Wis. Refrigeration. 1,944,472; Jan. 23.

Smidth, F. L. & Co. (See Nielsen, Niels, assignor.)

Smith, Alex J. (See Peller, K. E., and Smith.)

Smith, Clyde L. (See Harnsberger, A. E., and Smith.)

Smith, Frank A., Los Angeles, Calif., assignor to Smith Manufacturing Company. Oscillating fluid compressor. 1,944,198; Jan. 23.

Smith, Herschel G., Swarthmore, assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacture of green bloom agents. 1,944,851; Jan. 23.

Smith, John W., assignor to The Fafnir Bearing Company, New Britain, Conn. Spring connection. 1,944,766; Jan. 23.

Smith Manufacturing Company. (See Smith, Frank A., assignor.)

Smith, Obed E. (See Farr, W. H., Smith, and Eksergian.)

Smith, William H., sr., Webster Groves, Mo. Shoe stand. 1,944,649; Jan. 23.

Snyder, Edward, Fort Wayne, Ind., assignor to General Cable Corporation, New York, N. Y. Coil winding machine. 1,944,581; Jan. 23.

Snyder, Edward, Fort Wayne, Ind., assignor to General Cable Corporation, New York, N. Y. Mandrel. 1,944,582; Jan. 23.

Snyder, George C., Long Island City, N. Y., assignor to The Guardian Trust Company, Cleveland, Ohio. Fabricated board. 1,944,280; Jan. 23.

Snyder, George C., Elmhurst, N. Y., assignor to The Guardian Trust Company, Cleveland, Ohio. Laminated board and making the same. 1,944,282; Jan. 23.

Società Italiana Pirelli. (See Emanuell, Luigi, assignor.)

Societe Anonyme pour tous Appareillages Mecaniques. (See Snussard, Louis, assignor.)

Societe des Schistes et Petroles de Franche Comte. (See Petit, René, assignor.)

Soderberg, Karl, New Port Richey, Fla. Novelty lock box. 1,944,722; Jan. 23.

Soldan, Otto. (See Weeber, O., and Soldan.)

Sôll, Julius, Frankfort-on-the-Main Schwanheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing 1.1.2 trichloroethane. 1,944,306; Jan. 23.

Sollie, Sigurd A., Burlingame, Calif., assignor to Federal Telegraph Company, Newark, N. J. Electrical pick-up. 1,944,583; Jan. 23.

Specialty Automatic Machine Company. (See Sidebotham, Melvin H., assignor.)

Sperry, Samuel E., Hollis, assignor to Intertype Corporation, Brooklyn, N. Y. Line composing and type casting machine. 1,944,852; Jan. 23.

Spoon, William L., Burlington, N. C. Channeler attachment to road grading machines. 1,944,307; Jan. 23.

Sportsman, Charles O. (See Roberts, Paul I., assignor.)

Standard Alcohol Company. (See Brooks, Benjamin T., assignor.)

Standard Electric Time Company, The. (See Harter, George F., assignor.)

Standard-I. G. Company. (See Fisher, Harold W., assignor.)

Standard-I. G. Company. (See Haslam, Robert T., assignor.)

Standard Oil Company (See Atwell, Harold V., assignor.)

Standard Oil Development Company. (See Frolich, P. K., assignor, and Boekeler.)

Starr, Alden B., Brooklyn, N. Y., assignor to Knapp-Monarch Company, Toaster device. 1,944,473; Jan. 23.

Stern, Benjamin H. (See Schnieder, Ernst, assignor.)

Stearns-Stafford Roller Bearing Company. (See Packer, Oswald F., assignor.)

Stegeman, Henry J., Fairfield, and L. W. Barnes, Trumbull, assignors to The Locke Steel Chain Company, Bridgeport, Conn. Power-driven lawn mower. 1,944,584; Jan. 23.

Stehlik, Rudolph F., assignor to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 1,944,698; Jan. 23.

Steinmeier, Charles D. (See Coble, D. C., and Steinmeier.)

Stellawerk Aktiengesellschaft vormals Willsch & Co. (See Friedersdorff, Konrad, assignor.)

Stephens, Thomas G., Cleveland, Ohio. Producing chemical compounds. 1,944,281; Jan. 23.

Sterling, George H. (See Brune, A., and Sterling.)

Stevens, Horace D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Method and apparatus for mounting expansible cores in tire casings. 1,944,767; Jan. 23.

Stevenson, Herbert A. (See Webb, J. B., and Stevenson.)
Stevens, William C., Uniontown, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Building beads for tires. 1,944,768; Jan. 23.
Stewart, Duncan J., assignor to H. D. Colman, Rockford, Ill. Air conditioning system. 1,944,699; Jan. 23.
Stierheim, Edward A. (See Duerr, F. A., and Stierheim.)
Stirlen, Eugene D., and J. L. Black, assignors to The Engineering and Research Corporation, New Haven, Conn. Control for traffic signal systems. 1,944,723; Jan. 23.
Stoetzel, Joseph J., Queens Village, assignor to G & G Atlas Systems, Inc., New York, N. Y. Pneumatic dispatch apparatus. 1,944,769; Jan. 23.
Stone, J., & Company Limited. (See Gordon, John, assignor.)
Stough, Charles R., assignor to Motor Wheel Corporation, Lansing, Mich. Hub assembly for wheels. 1,944,724; Jan. 23.
Stowell, Gilbert W., Mackinaw, Ill. Snap hook. 1,944,475; Jan. 23.
Strecker, Felix, Berlin-Steglitz, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone interconnecting circuit. 1,944,283; Jan. 23.
Strobel, Clarence J., Port Huron, assignor to St. Clair Rubber Company, Detroit, Mich. Artificial board and forming the same. 1,944,533; Jan. 23.
Strouse, George C. (See Lubs, H. A., and Strouse.)
Summers, Otto M., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,944,617; Jan. 23.
Superior Zinc Corporation. (See French, Richard W., assignor.)
Surface Combustion Corporation. (See Charlesworth, Samuel, assignor.)
Svedberg, Hilding A. (See Bergman, T. V., and Svedberg.)
Svorcina, Michael, Chicago, Ill. Explosion or bleeder valve for blast furnaces. 1,944,770; Jan. 23.
Sweeley, Edward A., Alexandria, Va., and N. T. Anderson, Washington, D. C. Refrigerator car door and the like. 1,944,618; Jan. 23.
Symington, Scott, London, England, assignor to Woodall-Duckham (1920) Limited. Refuse destructor furnace. 1,944,816; Jan. 23.
Tait, William O., jr., Crestwood, Ohio. Steering mechanism, etc. 1,944,700; Jan. 23.
Tally, Thomas L. (See De La Garde, Theodor M., assignor.)
Tauschek, Gustav, Vienna, Austria, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Printing mechanism. 1,944,675; Jan. 23.
Tauschek, Gustav, Mountain Lakes, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Card controlled calculating machine. 1,944,676; Jan. 23.
Taylor, Daniel E., Willimantic, Conn. Amusement device. 1,944,377; Jan. 23.
Taylor, Sterlin G. (See Waters, W. C., Purvis, and Taylor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Muth, Herbert.)
Tenny, Henry S., Oakland, Calif., assignor to The Rola Company, Cleveland, Ohio. Electrodynamic speaker. 1,944,725; Jan. 23.
Thalhammer, Karl W., Los Angeles, Calif. Camera attachment. 1,944,476; Jan. 23.
Thenoz, Raymond A. J., Milan, Italy, assignor to Ruth-Aldo Company, Inc. Process and apparatus for producing dull luster rayon. 1,944,378; Jan. 23.
Thomas, William S., Montoursville, Pa. Water heater. 1,944,817; Jan. 23.
Thomas, Willis P. (See Howse, C. L., and Thomas.)
Thomas, Willis P., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,944,325; Jan. 23.
Thompson, Earl A., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Synchronized transmission mechanism. 1,944,331; Jan. 23.
Thompson, James S., New Rochelle, assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y. Grate bar. 1,944,332; Jan. 23.
Tilden, Bert O., assignor to B. O. T. Manufacturing Company, Trenton, N. J. Flush valve. 1,944,379; Jan. 23.
Tillotson, James, jr., Jamestown, N. Y. Wood furniture drawer support. 1,944,477; Jan. 23.
Tischler, Ludwig J., Detroit, Mich. Die casting machine. 1,944,199; Jan. 23.
Todd, Russell W., Bronxville, N. Y. Automatic change speed mechanism. 1,944,585; Jan. 23.
Toupin, Arthur, Nicolet, Quebec, Canada. Vehicle steering gear. 1,944,333; Jan. 23.
Towle Manufacturing Company. (See Poppenhauser, Ferdinand, assignor.)
Towndrow, Edward F. (See Ricks, F., and Towndrow.)
Tracy, Joseph, Rutherford, N. J. Apparatus for making accurate dynamometric determinations. 1,944,334; Jan. 23.
Tray Service Company. (See Lack, Fred S., assignor.)
Trombetta, Panfilo. (See Wilms, C. O., and Trombetta.)
Tuckermann, Ernst, Esbo, Finland, assignor to H. W. Guettler, President of Fibre Making Processes, Inc., Chicago, Ill. Boiler. 1,944,478; Jan. 23.
Turner, Howard C., Anniston, Ala., assignor to American Telephone and Telegraph Company. Transmission system. 1,944,308; Jan. 23.
Underwood, Garfield J., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Fabric. 1,944,534; Jan. 23.
Unger, Samuel L., New York, N. Y. Mailing novelty. 1,944,853; Jan. 23.
Union Metal Products Company. (See Gilpin, Garth G., assignor.)
Union Oil Company of California. (See Bray, Urlic B., assignor.)
Union Oil Company of California. (See Hill, Frank F., assignor.)
Unipress Company, The. (See Raynolds, John F., assignor.)
United American Bosch Corporation. (See Beeh, Louis, assignor.)
United American Bosch Corporation. (See Henderson, Ken L., assignor.)
United-Carr Fastener Corporation. (See Hayden, Lester N., assignor.)
United-Carr Fastener Corporation. (See Johnson, Gustav, assignor.)
United Shoe Machinery Corporation. (See Brandt, Francis L., assignor.)
United Shoe Machinery Corporation. (See Hazelton, George, assignor.)
United Shoe Machinery Corporation. (See Osborne, Harold A., assignor.)
United Shoe Machinery Corporation. (See Ricks, F., and Towndrow, assignors.)
United Shoe Machinery Corporation. (See Scarnegie, Daniel A., assignor.)
United Shoe Machinery Corporation. (See Woodcock, R. B., and Boothroyd, assignors.)
Urfer, Adolf, Richmond Hill, assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Aircraft indicator. 1,944,619; Jan. 23.
Usher, Edward E., North Plainfield, N. J. Binder. 1,944,620; Jan. 23.
Utah Radio Products Company. (See Bertschi, Jacob, assignor.)
Valentine, Charles W., P. N. Ottersland, and G. A. Fairbanks, assignors to The Bagley and Sewall Company, Watertown, N. Y. Pulley. 1,944,284; Jan. 23.
Van Atta, Roy E., Johnson County, Kans. Bag. 1,944,621; Jan. 23.
Van Brunt Manufacturing Company, The. (See Schaeffer, John, assignor.)
Vance, George E., assignor to The Safety Grinding Wheel & Machine Company, Springfield, Ohio. Bushing openings. 1,944,380; Jan. 23.
Van Liempt, Johannes A. M., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Flash light lamp. 1,944,854; Jan. 23.
Van Loenen, William F., Buena Park, assignor to L. Blake Smith, San Francisco, Calif. Treating emulsions. 1,944,479; Jan. 23.
Van Loenen, William F., Buena Park, assignor to L. Blake-Smith, San Francisco, Calif. Treating emulsions. 1,944,480; Jan. 23.
Van Peski, Adrianus J., Amsterdam, Netherlands, assignor, by mesne assignments, to Shell Development Company, San Francisco, Calif. Absorbing olefines. 1,944,622; Jan. 23.
Van Wyck, John H., Middle Village, N. Y. Collapsible chair. 1,944,335; Jan. 23.
Varaud, André, Geneva, Switzerland. Mechanical time fuse. 1,944,623; Jan. 23.
Verriere, Louis P. J. A., Mardore, par Pont-Trambouze, France. Loom for weaving without a shuttle. 1,944,830; Jan. 23.
Vlet, Paul. (See Gerard, Leon, assignor.)
Vigren, Sten D. (See Olson, A. H., and Vigren.)
Vilter Manufacturing Company, The. (See Sloan, H., Baars, and Bach, assignors.)
Vincent, Maurice, Paris, France. Door bolt for multileaf doors. 1,944,650; Jan. 23.
Virginia-Carolina Chemical Corp. (See Genz, Frederick W., assignor.)
Vogel, Josef, San Francisco, Calif. Carburetor. 1,944,809; Jan. 23.
Von Webern, Guido, Dayton, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich. Making graining rolls. 1,944,200; Jan. 23.
Wachter, August, assignor to the firm Maschinenfabrik Weingarten vorm. Hch. Schatz A. G., Weingarten, Germany. Universal machine for canting and circular bending. 1,944,651; Jan. 23.
Wadman, Harold A., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for making glass. 1,944,855; Jan. 23.
Wagner, Christian H., Tiffin, Ohio. Bottle cap handle. 1,944,310; Jan. 23.
Wamhoff, William F., Emblem, Wyo., assignor to International Harvester Company. Seed dispensing device. 1,944,381; Jan. 23.
Warner Electric Brake Corporation. (See Whyte, John, assignor.)
Warntjes, James H. (See Matthews, H., Warntjes, Arthurs, and Wilkinson.)
Warren, Charles H. (See McFall, T. E., and Warren.)
Waters, William C., L. L. Purvis, and S. G. Taylor, Columbus, Ga. Filling detector. 1,944,624; Jan. 23.

Watson, Robert, Cleveland, Ohio, assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y. Grate frame construction. 1,944,336; Jan. 23.
Waugh Equipment Company. (See Thompson, James S., assignor.)
Waugh Equipment Company. (See Watson, Robert, assignor.)
Webb, Jervis B., Royal Oak, and H. A. Stevenson, St. Clair Shores, Mich. Handling material. 1,944,771; Jan. 23.
Wecker, Andrew J., Dayton, Ohio. Automatic doorstop. 1,944,382; Jan. 23.
Weeber, Otto, Berlin-Charlottenburg, and O. Soldan, Berlin-Siemensstadt, assignors to Siemens & Halske Aktiengesellschaft, Wernerwerk Siemensstadt, Germany. Telephone set. 1,944,701; Jan. 23.
Weeks, James R. (See Bertossa, Harry A., assignor.)
Weill, Robert, Paris, France. Oil bath insulator. 1,944,383; Jan. 23.
Weinlich, Hermann A., Berlin, Germany, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Debit and credit tabulator. 1,944,677; Jan. 23.
Wells, Walter T., Glendale, Calif. Setting tool for setting a liner in an oil well or the like. 1,944,481; Jan. 23.
Wemp, Ernest E., Detroit, Mich. Clutch. 1,944,337; Jan. 23.
West, Ralph H., Willoughby, assignor to The West Steel Casting Company, Cleveland, Ohio. Step for manholes. 1,944,384; Jan. 23.
West Steel Casting Company, The. (See West, Ralph H., assignor.)
Western Electric Company. (See Brodie, George H., assignor.)
Western Electric Company. (See Kegl, Z. J., and Larsen, assignors.)
Western Electric Company. (See McGuire, Lee R., assignor.)
Western Electric Company. (See Rutherford, George S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Arnold, Edwin E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eames, William F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Inman, Donovan E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kruck, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Landon, Vernon D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Laport, Edmund A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lyle, Frederick W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mathias, David L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mouromtseff, Ilia E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Quarles, Lawrence R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Rutemiller, O. G., and King, assignors.)
Westinghouse Electric & Manufacturing Company. (See Sandin, Jerome, assignor.)
Westinghouse Electric Elevator Company. (See White Kenneth M., assignor.)
Weatinghouse Lamp Company. (See Meyer, Peter, assignor.)
Wharton, Edward R., Medford, Mass. Grease gun. 1,944,201; Jan. 23.
Wheeler, Harley T., Dallas, Tex. Flame extinguisher for stuffing-boxes. 1,944,385; Jan. 23.
Whikebart, John, Zanesville, Ohio. Apparatus for making gas. 1,944,818; Jan. 23.
White, Charles W., West Frankfort, Ill. Divider. 1,944,819; Jan. 23.
White, Edwin E., Paintsville, Ky. Cap locking device. 1,944,535; Jan. 23.
White, Kenneth M. Mooresville, Ind., assignor to Westinghouse Electric Elevator Company, Chicago, Ill. Elevator compensating rope sheave. 1,944,772; Jan. 23.
Whyte, John, assignor to Warner Electric Brake Corporation, Beloit, Wis. Electric brake. 1,944,831; Jan. 23.
Wiberg, Oscar A., Finspong, Sweden. Radial flow elastic fluid turbine. 1,944,538; Jan. 23.
Wiberg, Oscar A., and O. Möller, Finspong, Sweden. Steam turbine. 1,944,536; Jan. 23.
Wiberg, Oscar A., and O. Möller, Finspong, Sweden. Radial flow elastic fluid turbine. 1,944,537; Jan. 23.
Wiedeke, Gustav, assignor to Gustav Wiedeke Company, Dayton, Ohio. Tube and flue expander. 1,944,338; Jan. 23.
Wiedeke, Gustav, Company. (See Wiedeke, Gustav, assignor.)
Wilfley, A. R., and Sons, Inc. (See Geer, William E., assignor.)
Wilkinson, William C. (See Matthews, H., Warntjes, Arthurs, and C. Wilkinson.)
Willetts Paul G., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Glass resistant refractory and batch composition for producing such a refractory. 1,944,856; Jan. 23.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,415; Jan. 23.
Williams, William E., London, England, assignor to Columbia Phonograph Company, Inc., Bridgeport Conn. Apparatus for reproducing sound from records. 1,944,202; Jan. 23.
Wilms, Gustav O., and P. Trombetta, assignors, by mesne assignments to Allen-Bradley Company, Milwaukee, Wis. Circuit breaker. 1,944,832; Jan. 23.
Wilms, Gustav O., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis. Over-load relay. Re19,062; Jan. 23.
Wilson, Albert C. (See Perkins, L. A. and Wilson.)
Wilson, George D. (See Baker, G. R. and Wilson.)
Winn, Sidney B., Lapeer, Mich. Semitrailer. 1,944,773; Jan. 23.
Winn, Sidney B., Lapeer, Mich. Semitrailer. 1,944,774; Jan. 23.
Winn, Sidney B., Lapeer, Mich. Fifth wheel coupling for tractor-trailer combinations. 1,944,775; Jan. 23.
Winship, Charles N., Wakefield, Mass. Bathing garment. 1,944,482; Jan. 23.
Winslow, Edward N., Shaker Heights, assignor to The Mills Company, Cleveland, Ohio. Hinge. 1,944,386; Jan. 23.
Winthrop Chemical Company. (See Bockmühl, M., and Knoll, assignors.)
Wittig, Carl H. O., Irondequoit, N. Y. Device for picture frames and the like. 1,944,203; Jan. 23.
Wolfe, Hulbert A. (See Kerr, R. M., and Wolfe, assignors.)
Wolvin, Roy M. (See Robinson, Joseph, assignor.)
Wood, George R., Toronto, Ontario, Canada, assignor, by mesne assignments to International Business Machines Corporation, New York, N. Y. Knife sharpener. 1,944,702; Jan. 23.
Wood, Walter. (See Camerota, Louis A., assignor.)
Woodall-Duckham (1920) Limited. (See Symington, Scott, assignor.)
Woodcock, Reginald B., and H. Boothroyd, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,944,311; Jan. 23.
Woodward, Marion H., Brooklyn, N. Y., assignor to International Communications Laboratories, Inc., Newark, N. J. Automatic transmission of synchronizing pulses. 1,944,586; Jan. 23.
Wright Aeronautical Corporation. (See Chilton, Roland, assignor.)
Wright, De Coster, Inc. (See du Puy, Richard R., assignor.)
Wright, Irvin Gillem Branch, Ky. Internal combustion engine. 1,944,652; Jan. 23.
Wright, Parvin, Seattle, Wash., assignor to The Gerrard Company, Inc., Chicago, Ill. Address tag. 1,944,387; Jan. 23.
Wünsch, Guido, Steglitz, near Berlin, assignor to Askania-Werke A.-G. vorm. Centralwerkstatt Dessau und Carl Bamberg, Friedenau, Berlin-Friedenau, Germany. Proportional gas meter. 1,944,339; Jan. 23.
Wutzke, Waldemar W., and J. J. Mitchell, Detroit, Mich., said Mitchell assignor to said Wutzke. Combination Powder container and puff. 1,944,204; Jan. 23.
Yale & Towne Manufacturing Company, The. (See Rickwood, Rowland L., assignor.)
Young, Archer E., Pittsburgh, Pa. Heat measuring apparatus. 1,944,587; Jan. 23.
Ziegler, Charles, Paris, France, assignor, by mesne assignments, to The American Securit Company. Apparatus for tempering glass sheets. 1,944,625; Jan. 23.
Zieley, John D., Belmar, N. J., assignor to Amarel Corporation, Wilmington, Del. Treating hydrocarbons. 1,944,483; Jan. 23.
Ziguelde, Robert, Paris, France, assignor, by mesne assignments, to International Business Machine Corporation, New York, N. Y. Record analyzer. 1,944,678; Jan. 23.
Zimmerman, Fred R., Chicago, and V. P. Killelea, Berwyn, assignors, by mesne assignments, to Burton-Dixie Corporation, Chicago, Ill. Tacking machine. 1,944,388; Jan. 23.
Zitscher, Arthur, Offenbach-on-the-Main, H. Morschel, Cologne-Deutz, and W. Luce, Hofheim-on-the-Taunus, Germany, assignors to General Aniline Works, New York, N. Y. Azo dyestuffs and fiber dyed therewith. 1,944,539; Jan. 23.
Zubaty, Joseph, and A. M. Babitch, Flint, Mich. Auxiliary means for fuel pumps. 1,944,340; Jan. 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrasive articles, Manufacture of. H. P. Kirchner. 1,944,184; Jan. 23.
Acid containing eight or more carbon atoms, Aliphatic amine sulphonic. K. Ott, W. Hentrich, and H. Keppler. 1,944,300; Jan. 23.
Acid derivative, Chelidamic. M. Dohrn and P. Diedrich. 1,944,412; Jan. 23.
Acid esters, Phosphoric. C. Schonburg. 1,944,530; Jan. 23.
Acid, Manufacture of boric. E. Franke. 1,944,598; Jan. 23.
Acid, Method and apparatus for concentrating sulphuric. W. C. Mast. Re19,064; Jan. 23.
Acids, Production of tar. W. C. Cooper, jr. 1,944,681; Jan. 23.
Addition product of unsaturated hydrocarbons, Production of. J. P. Baxter. 1,944,161; Jan. 23.
Adhesive tape or plaster. F. I. Bennett, jr. 1,944,834; Jan. 23.
Adjustable foot support. L. D. Noble. 1,944,608; Jan. 23.
Adjustable lens holder. T. E. Millington. 1,944,567; Jan. 23.
Advertising apparatus. K. N. Moir. 1,944,448; Jan. 23.
Agitator. A. R. Keller. 1,944,742; Jan. 23.
Air cleaner. O. R. Skelton. 1,944,279; Jan. 23.
Air conditioning system. D. J. Stewart. 1,944,609; Jan. 23.
Air control mechanism. W. F. Andersen. 1,944,485; Jan. 23.
Aircraft. H. C. King. 1,944,436; Jan. 23.
Aircraft indicator. A. Urfer. 1,944,619; Jan. 23.
Air filter. V. Dahlman. 1,944,407; Jan. 23.
Alcohols from acid liquors, Obtaining secondary. B. T. Brooks. 1,944,400; Jan. 23.
Alloy. L. W. Kempf and I. R. Dawson. 1,944,183; Jan. 23.
Alloy for use in the manufacture of tetraethyl lead. W. S. Calcott, A. E. Parmelee, and H. F. Meschter. 1,944,167; Jan. 23.
Alloy, Ferrous. V. O. Homerberg. 1,944,178–9; Jan. 23.
Alternating current motor, Synchronous. K. Schmidt and K. Schöler. 1,944,579; Jan. 23.
Aluminum oxide or the like, Obtaining. S. Hunyady. 1,944,327; Jan. 23.
Amplifier, Audio-frequency. V. D. Landon. 1,944,746; Jan. 23.
Amplifier, Push-pull. E. A. Laport. 1,944,747; Jan. 23.
Amusement device. D. E. Taylor. 1,944,377; Jan. 23.
Antiglare device. G. H. Schaffner. 1,944,468; Jan. 23.
Apparatus for testing the hardness of grinding disks. H. Lindner. 1,944,353; Jan. 23.
Apparel and making same, Wearing. F. Grasso. 1,944,507; Jan. 23.
Arbor, Ring holding. T. E. McFall and C. H. Warren. 1,944,255; Jan. 23.
Article feeding and positioning machine. P. Meyer. 1,944,360; Jan. 23.
Articles into desired lengths, Device for severing continuously moving. A. Rafter. 1,944,718; Jan. 23.
Assembling machine. F. W. Doyle. 1,944,683; Jan. 23.
Automatic gate. W. W. Kincaid. 1,944,349; Jan. 23.
Automobile body. A. E. Northup. Des. 91,410; Jan. 23.
Automobile body construction. E. P. Hartry. 1,944,429; Jan. 23.
Axle bending equipment. F. J. Fransen. 1,944,862; Jan. 23.
Azo-dyestuffs, Manufacture of. E. Hug and M. Müller. 1,944,645; Jan. 23.
Bag. R. E. Van Atta. 1,944,621; Jan. 23.
Bag and sack. C. Butterfield and H. W. Nichols. 1,944,151; Jan. 23.
Bag making and filling machine. J. P. Aldrich. 1,944,147; Jan. 23.
Bags, Apparatus for cleaning. R. B. Rathbun. 1,944,268; Jan. 23.
Bags, Construction of. W. W. Rowe. 1,944,613; Jan. 23.
Bailer. E. G. Keeler. 1,944,484; Jan. 23.
Bar: *See*—
  Grate bar. Portable adjustable bar.
Barrier and slag screen, Mixing. G. Lasker. 1,944,330; Jan. 23.
Beads for tires, Building. W. C. Stevens. 1,944,768; Jan. 23.
Bearing: *See*—
  Roller bearing.
Bearing. E. A. Lundvall. 1,944,291; Jan. 23.
Bearing manufacture. J. V. O. Palm. 1,944,609; Jan. 23.
Belt drive. T. G. Nyborg. 1,944,296; Jan. 23.
Beverage dispensing machine. R. L. Rogers, jr. 1,944,811; Jan. 23.

Beverage vending machine. R. L. Rogers. 1,944,809; Jan. 23.
Bimetallic stock, Making. G. W. Burr. 1,944,215; Jan. 23.
Binder. E. E. Usher. 1,944,620; Jan. 23.
Bituminous schists, Apparatus for the distillation of. R. Petit. 1,944,647; Jan. 23.
Bloom agents, Manufacture of green. H. G. Smith. 1,944,851; Jan. 23.
Board: *See*—
  Fabricated board.
Board and forming the same, Artificial. C. J. Strobel. 1,944,533; Jan. 23.
Board and making the same, Laminated. G. C. Snyder. 1,944,282; Jan. 23.
Boiler. E. E. Grassman. 1,944,506; Jan. 23.
Boiler. E. Tuckermann. 1,944,478; Jan. 23.
Boiler and operating the same, Superheater. R. M. Hardgrove. 1,944,234; Jan. 23.
Boiler cleaner. C. L. Howse and W. P. Thomas. 1,944,324; Jan. 23.
Boiler cleaner. W. P. Thomas. 1,944,325; Jan. 23.
Boiler return and vacuum trap. S. F. and R. A. Knefel. 1,944,437; Jan. 23.
Bottle. F. J. Hale and W. H. Gibson. Des. 91,392; Jan. 23.
Bottle cap handle. C. H. Wagner. 1,944,310; Jan. 23.
Bottle or container receiver. A. F. Pforsich. 1,944,806; Jan. 23.
Bowl or similar article. W. W. Dodge, jr. Des. 91,402; Jan. 23.
Box: *See*—
  Journal box. Novelty lock box.
  Make-up box.
Box and container, Jewelry. M. Lehmann. 1,944,714; Jan. 23.
Box for hexagonal socket wrenches, Tool. C. E. Little. 1,944,606; Jan. 23.
Box or carton. T. B. Schmidt. 1,944,305; Jan. 23.
Brace attachment for curb service trays. F. S. Lack. 1,944,745; Jan. 23.
Brake: *See*—
  Electric brake.
Brake. M. W. Bowen. 1,944,490; Jan. 23.
Brake drum. W. A. Mulhern. 1,944,261; Jan. 23.
Brake mechanism, Hand. T. K. Cummins and C. L. Emry. 1,944,546; Jan. 23.
Brake rigging for railway cars. C. Hankins. 1,944,509; Jan. 23.
Brake-testing device. J. S. Holmes. 1,944,344; Jan. 23.
Brake torque equalizer, Automatic. F. L. Schorno. 1,944,814; Jan. 23.
Buckle, Webbing. W. E. Olmstead. 1,944,453; Jan. 23.
Buffing tool. F. Ricks and E. F. Towndrow. 1,944,302; Jan. 23.
Building construction. H. Dusablon. 1,944,787; Jan. 23.
Burner: *See*—
  Fuel burner. Vaporizing burner.
Burner. L. S. Chadwick and C. J. Kessler. 1,944,492; Jan. 23.
Bus and switch gear, Oil filled. H. C. Kalwitz. 1,944,661; Jan. 23.
Bus power unit, Motor. C. W. Miller and G. C. Goode. 1,944,256; Jan. 23.
Bushing openings. G. E. Vance. 1,944,380; Jan. 23.
Cabinet. J. E. Bales and J. E. Hallberg. 1,944,394; Jan. 23.
Cabinet for cash registers. J. D. Lorens. Des. 91,396–7; Jan. 23.
Cabinet or similar article, Air conditioning. R. E. Kruck. Des. 91,394–5; Jan. 23.
Cabinet, Sewing. E. Boutton and H. A. Brunner. Des. 91,387; Jan. 23.
Cable. C. P. Brodbun. 1,944,634; Jan. 23.
Cable, Hollow. E. W. Hamcke. 1,944,664; Jan. 23.
Cables, Method and machine for coating. W. W. Church and W. C. Robinson. 1,944,822; Jan. 23.
Cage, Bird. F. V. Meindl. 1,944,566; Jan. 23.
Calculating machine, Card-controlled. G. Tauschek. 1,944,676; Jan. 23.
Camera attachment. K. W. Thalhammer. 1,944,476; Jan. 23.
Camera shuttle. H. K. Fairall. 1,944,228; Jan. 23.
Cap locking device. E. E. White. 1,944,535; Jan. 23.
Cap, Milk bottle evacuating. R. C. Dusterberg. 1,944,636; Jan. 23.
Caps, Making hub. E. W. Griffith. 1,944,658; Jan. 23.
Car check locks and collectors, Mine. R. B. French. 1,944,552; Jan. 23.
Car coupler positioning device, Railway. G. G. Gilpin. 1,944,422; Jan. 23.
Car, Railway. G. G. Gilpin. 1,944,421; Jan. 23.

Carbon black, Manufacture of. G. C. Lewis. 1,944,715; Jan. 23.
Carbonization apparatus. H. O. Loebell. 1,944,749; Jan. 23.
Carbonyls, Production of metal. L. Schlecht and M. Neumann. 1,944,849; Jan. 23.
Carburetor. O. C. Berry. 1,944,397; Jan. 23.
Carburetor. E. J. Dansreau. 1,944,547; Jan. 23.
Carburetor. E. Dickey. 1,944,225; Jan. 23.
Carburetor. J. Vogel. 1,944,309; Jan. 23.
Card sorting machine, Perforated. A. C. Maby. 1,944,692; Jan. 23.
Carrier: *See*—
  Differential carrier. Trolley pole carrier.
Carton. A. E. Bueschel. 1,944,214; Jan. 23.
Case: *See*—
  Folding pocket case.
Case for automobile radios. E. C. Booth. Des. 91,386; Jan. 23.
Case for toilet articles. A. L. Siegel and H. A. Jacobs. Des. 91,414; Jan. 23.
Casing and support, Combined. K. L. Henderson. 1,944,687; Jan. 23.
Casing head and blow-out preventer, Combination. G. A. Humason and J. A. Logan. 1,944,240; Jan. 23.
Cast compact ceramic products, Making. V. Skola. 1,944,616; Jan. 23.
Casting and molding machine, Electric. F. E. Bellows. 1,944,173; Jan. 23.
Casting, Centrifugal. R. D. Pike. 1,944,461; Jan. 23.
Casting device, Centrifugal. R. D. Pike. 1,944,460; Jan. 23.
Casting machine. R. M. Kerr and H. A. Wolfe. 1,944,435; Jan. 23.
Casting machine, Centrifugal. L. A. Camerota. 1,944,168; Jan. 23.
Cellulose derivatives, Treatment of. G. H. Ellis, H. C. Olpin and E. W. Kirk. 1,944,413; Jan. 23.
Cement admixture. A. Beghelli. 1,944,620; Jan. 23.
Cementing apparatus. S. E. Manning. 1,944,442; Jan. 23.
Centrifugal. L. Altpeter. 1,944,391; Jan. 23.
Ceramic articles, Apparatus for preparing. W. and M. Lengersdorff. 1,944,796; Jan. 23.
Chain: *See*—
  Conveyer chain.
Chair: *See*—
  Collapsible chair.
Channeler attachment to road grading machines. W. L. Spoon. 1,944,307; Jan. 23.
Chemical compounds, Producing. T. G. Stephens. 1,944,281; Jan. 23.
Chemical compounds, Treating. P. L. Salzberg. 1,944,274; Jan. 23.
Chime, Signal. R. D. Karnell. Des. 91,393; Jan. 23.
Chimney, Arc extinguishing. A. Clerc. 1,944,403; Jan. 23.
Cholesterin ester. M. Bockmühl and R. Knoll. 1,944,542; Jan. 23.
Cigar bunch rolling and shaping machine. R. E. Rundell. 1,944,760; Jan. 23.
Cigarette extinguisher. F. A. Ford. 1,944,640; Jan. 23.
Circuit breaker. G. O. Wilms and P. Trombetta. 1,944,832; Jan. 23.
Circuit-breaker with compressed gas blow-out, Electric. A. Clerc. 1,944,402; Jan. 23.
Circuit-control device, Combined automatic and manual. L. P. Hutt. 1,944,740; Jan. 23.
Circuits for voice frequency carrier telegraph systems, Selective. L. A. Kelley. 1,944,589; Jan. 23.
Clamp: *See*—
  Rope clamp.
Clamping device. E. H. Brunner. 1,944,166; Jan. 23.
Clamping device for water-jacketed power tubes. E. A. Leach. 1,944,748; Jan. 23.
Clasp. J. H. McMurray. 1,944,646; Jan. 23.
Cleaner: *See*—
  Air cleaner. Vacuum cleaner.
  Boiler cleaner. Windshield cleaner.
Cleaning composition, Dry. S. Born. 1,944,859; Jan. 23.
Clock, Impulse. G. F. Harter. 1,944,602; Jan. 23.
Clock with individual rectifier, Alternating current and direct current secondary. J. W. Bryce. 1,944,592; Jan. 23.
Closure. D. R. MacKenzie. 1,944,855; Jan. 23.
Closure, Return bend. M. H. Levy. 1,944,290; Jan. 23.
Clothesline attachment. C. H. Reske. 1,944,808; Jan. 23.
Clutch. E. E. Wemp. 1,944,337; Jan. 23.
Clutch mechanism, Friction and positive. R. Beringer. 1,944,149; Jan. 23.
Coffee making method and apparatus. P. A. Rush. 1,944,303; Jan. 23.
Coil winding machine. E. Snyder. 1,944,581; Jan. 23.
Coke and gas, Apparatus for producing. W. A. Riddell. 1,944,192; Jan. 23.
Collapsible chair. J. H. Van Wyck. 1,944,335; Jan. 23.
Color filter. C. L. Gregory. 1,944,230; Jan. 23.
Composition for dielectric use. F. M. Clark. 1,944,730; Jan. 23.
Composition for treating crude fibers and textile fabrics. R. H. Pott. 1,944,367; Jan. 23.
Compounds having hydrogenated ring systems and preparing them. O. Diels and K. Alder. 1,944,732; Jan. 23.
Condensation products of alpha-ethyl hexene aldehyde and primary amines and producing same. H. A. Morton. 1,944,843; Jan. 23.
Conductor, Electrical. R. Aceves. 1,944,390; Jan. 23.
Conduits of carbon or the like, Device for purging. E. W. Beardsley. 1,944,162; Jan. 23.
Confections, Apparatus for coating. G. R. Baker and G. D. Wilson. 1,944,148; Jan. 23.
Connecter: *See*—
  Electrical connecter. Train pipe connecter.
Connection, Ball joint electrical. J. B. Saraceno. 1,944,196; Jan. 23.
Connection, Flange. R. Chilton. 1,944,219; Jan. 23.
Connection and J. J. Mitchell. 1,944,204; Jan. 23.
Container: *See*—
  Filing container.
Container and puff, Combination powder. W. W. Wutzke and J. J. Mitchell. 1,944,204; Jan. 23.
Continuous furnace. S. Charlesworth. 1,944,729; Jan. 23.
Control apparatus for electric elevators. R. B. Hunter. 1,944,432; Jan. 23.
Control device for accounting machines. H. C. Einstein. 1,944,657; Jan. 23.
Control device for electric currents. H. Sell. 1,944,721; Jan. 23.
Control device for pneumatic dispatch tube apparatus. S. Olson. 1,944,363; Jan. 23.
Control for traffic signal systems. E. D. Stirlen and J. L. Black. 1,944,723; Jan. 23.
Control head. W. A. Raymond and G. A. Humason. 1,944,573; Jan. 23.
Control head for wells. G. A. Humason. 1,944,840; Jan. 23.
Control mechanism. V. G. Apple. 1,944,205; Jan. 23.
Control system. D. E. Inman. 1,944,741; Jan. 23.
Control system. S. Ruppel. 1,944,846; Jan. 23.
Control system for electric elevators. E. W. Seeger. 1,944,471; Jan. 23.
Conveyer. L. E. Dupuy. 1,944,734; Jan. 23.
Conveyer chain. A. H. Schmidtke. 1,944,374; Jan. 23.
Conveyer, Jigger. H. Grube. 1,944,790; Jan. 23.
Cooker. P. P. Boehmer. 1,944,632; Jan. 23.
Cooling device. J. Aiken. 1,944,726; Jan. 23.
Copper sulphate in solution from metallic or scrap copper and dilute sulphuric acid, Production of. D. W. and B. H. Marsh. 1,944,444; Jan. 23.
Cores in tire casings, Method and apparatus for mounting expansible. H. D. Stevens. 1,944,767; Jan. 23.
Counter, Printing. E. A. Ford. 1,944,659; Jan. 23.
Coupler, Vehicle. A. Brune and G. H. Sterling. 1,944,213; Jan. 23.
Coupling for tractor-trailer combinations, Fifth wheel. S. B. Winn. 1,944,775; Jan. 23.
Crankcase ventilator. W. A. Geise. 1,944,341; Jan. 23.
Cream for increasing the viscosity thereof, Treating. T. V. Bergman and H. A. Svedberg. 1,944,541; Jan. 23.
Cup or similar article, Drinking. E. Kanter. Des. 91,407; Jan. 23.
Curb face, Adjustable. G. H. Miller. 1,944,257; Jan. 23.
Curtain control for motor cars, Pneumatic. T. Park. 1,944,454; Jan. 23.
Curtain stretcher frame. J. Ellis. 1,944,549; Jan. 23.
Cutter: *See*—
  Flying cutter. One-piece cutter.
Cyclohexyl-phenyl-amines and preparing them, Acylated. G. Kalischer and R. Fleischbauer. 1,944,514; Jan. 23.
Damper, Vibration. W. E. Hann. 1,944,233; Jan. 23.
Deed dispensing device. W. F. Wamhoff. 1,944,381; Jan. 23.
Dental dimenscionator. F. E. Gulick. 1,944,601; Jan. 23.
Desk structure. E. H. Sheldon. 1,944,765; Jan. 23.
Detergents, Shaping and cooling hot liquid. A. W. Scheidt. 1,944,848; Jan. 23.
Device for picture frames and the like. C. H. O. Wittig. 1,944,203; Jan. 23.
Die: *See*—
  Drawing die.
Die casting machine. L. J. Tischler. 1,944,199; Jan. 23.
Dies, Making drawing. A. P. Roux. 1,944,758; Jan. 23.
Differential carrier. F. Repeck. 1,944,612; Jan. 23.
Diolefines, Production of. M. Mueller-Cunradi. 1,944,153; Jan. 23.
Direction signal. R. B. Eisold. 1,944,557; Jan. 23.
Dishwashing machine. I. A. Johnson. 1,944,322; Jan. 23.
Disk harrow. E. C. Sandeen. 1,944,275; Jan. 23.
Dispenser: *See*—
  Paper cup dispenser. Soap dispenser.
Distortion correcting for transmission lines. H. Nyquist. 1,944,297; Jan. 23.
Divider. C. W. White. 1,944,819; Jan. 23.
Dobby drive. L. Y. Randall. 1,944,369; Jan. 23.
Dogging mechanism, Power-operated. E. H. Percy. 1,944,286; Jan. 23.
Door and the like, Refrigerator car. E. A. Sweeley and N. T. Anderson. 1,944,618; Jan. 23.
Doorbolt for multileaf doors. M. Vincent. 1,944,650; Jan. 23.
Door construction, Folding. W. D. Redrup. 1,944,670; Jan. 23.
Door handle. L. M. Holbrook. 1,944,642; Jan. 23.
Door holder. E. Ciriacy and H. Bradley. 1,944,783; Jan. 23.
Doorlock indicator. W. R. Schlage. 1,944,469; Jan. 23.

Door, Safety. D. L. Feltham. 1,944,156; Jan. 23.
Door, shower bath shield, and the like, Shower bath stall. L. H. Lehman. 1,944,440; Jan. 23.
Douche. E. M. Freund. 1,944,553; Jan. 23.
Drawworks, Single-shaft gear-driven. A. E. Rice and J. S. Morgan, jr. 1,944,463; Jan. 23.
Drawing die. A. P. Roux. 1,944,759; Jan. 23.
Drawing material. H. E. Braeg. Re19,060; Jan. 23.
Drier: *See*—
Print drier.
Drill: *See*—
Grain drill.
Drill vise, Portable. L. E. Bailey. 1,944,540; Jan. 23.
Driving of auxiliary apparatus on railway vehicles. J. Gordon. 1,944,599; Jan. 23.
Drop cloth holder. A. B. Person. 1,944,610; Jan. 23.
Dumping mechanism. C. G. Eisenberg, jr. 1,944,414; Jan. 23.
Duplicating machine. U. I. T. Blomberg. 1,944,165; Jan. 23.
Dyes, Preparation of sulphur. H. A. Lubs and G. C. Strouse. 1,944,250; Jan. 23.
Dyestuffs and fiber dyed therewith, Azo. A. Zitscher, H. Morschel, and W. Luce. 1,944,539; Jan. 23.
Dynamometric determinations, Apparatus for making accurate. J. Tracy. 1,944,334; Jan. 23.
Earth boring, Method and apparatus for controlling the angle in. F. F. Hill. 1,944,838; Jan. 23.
Electric brake. J. Whyte. 1,944,831; Jan. 23.
Electric incandescent lamp. T. Millner. 1,944,825; Jan. 23.
Electric liquid heater. L. A. Collins. 1,944,495; Jan. 23.
Electric switch. P. G. Shaw. 1,944,764; Jan. 23.
Electric system and method. J. K. Clapp. 1,944,315; Jan. 23.
Electric wind dynamo. H. Honnef. 1,944,289; Jan. 23.
Electrical characteristics of materials, Testing the. G. H. Brodie. 1,944,211; Jan. 23.
Electrical connecter. C. Salvati. 1,944,697; Jan. 23.
Electrical control system. H. E. Hershey. 1,944,688; Jan. 23.
Electrical cooking appliance. S. E. Patchell and C. T. Maxwell. 1,944,365; Jan. 23.
Electrical pick-up. S. A. Sollie. 1,944,583; Jan. 23.
Electrode, Welding. D. L. Mathias. 1,944,753; Jan. 23.
Electrodynamic speaker. H. S. Tenny. 1,944,725; Jan. 23.
Electromagnetic vibratory motor. J. Bertschi. 1,944,487; Jan. 23.
Emulsions, Treating. W. F. Van Loenen. 1,944,479–80; Jan. 23.
Engine: *See*—
Injection engine
Internal combustion engine.
Engines against backfiring, Device for protecting internal combustion. H. Feuillée. 1,944,418; Jan. 23.
Entrance doorlock. W. R. Schlaze. 1,944,470; Jan. 23.
Envelope for aircraft, Gas bag. E. E. Sabin. 1,944,467; Jan. 23.
Envelopes, etc., Continuous production of. F. Klinger. 1,944,794; Jan. 23.
Ethyl chloride from petroleum refinery gas, Manufacture of. E. B. Hjerpe and W. A. Gruse. 1,944,839; Jan. 23.
Fabric. G. J. Underwood. 1,944,534; Jan. 23.
Fabricated board. G. C. Snyder. 1,944,280; Jan. 23.
Fastener attaching machine. L. N. Hayden. 1,944,510; Jan. 23.
Faucet for dispensing plastics, Forced feed. J. P. Le May. 1,944,663; Jan. 23.
Feed for machine tools, Hydraulic. A. Oberhoffken. 1,944,362; Jan. 23.
Feeding head for reciprocating or jigging conveyers. J. R. Madeira. 1,944,357; Jan. 23.
Ferrous products faced with stable surface alloys, Making. P. A. E. Armstrong. Re19,058; Jan. 23.
Fertilizer. F. W. Genz. 1,944,788; Jan. 23.
Field strength in electromagnetic devices, Adjusting. R. D. Salmon. 1,944,578; Jan. 23.
Filing container. F. D. Jonas. 1,944,328; Jan. 23.
Filling detector. W. C. Waters, L. L. Purvis, and S. G. Taylor. 1,944,624; Jan. 23.
Film movement and film pressure release, Combined intermittent claw feed. T. M. De La Garde. 1,944,500; Jan. 23.
Film roll magazine for cameras, Auxiliary. L. Black. 1,944,312; Jan. 23.
Filter: *See*—
Air filter.
Color filter.
Filtering. R. B. Rathbun. 1,944,267; Jan. 23.
Filtering system. G. R. Ericson. 1,944,550; Jan. 23.
Fishing rod. C. M. Fairley. 1,944,503; Jan. 23.
Flame extinguisher for stuffing-boxes. H. T. Wheeler. 1,944,385; Jan. 23.
Flash light lamp. J. A. M. van Liempt. 1,944,854; Jan. 23.
Flight trainer. W. E. Huffman. 1,944,180; Jan. 23.
Floor construction. E. Mahler and E. Rossbach. 1,944,292; Jan. 23.
Flotation process. W. Schäfer and W. Mertens. 1,944,529; Jan. 23.
Fluid compressor, Oscillating. F. A. Smith. 1,944,198; Jan. 23.
Fluid pressure control apparatus for pressing machines. J. F. Raynolds. 1,944,462; Jan. 23.
Flush valve. B. O. Tilden. 1,944,379; Jan. 23.
Flying cutter. A. B. Haswell. 1,944,710; Jan. 23.
Folding pocket case. F. P. Hughes. 1,944,845; Jan. 23.
Food handling apparatus. H. L. Johnston. 1,944,181; Jan. 23.
Food preparing machine. C. B. Krause. 1,944,245; Jan. 23.
Food product. B. Pillorz. 1,944,265; Jan. 23.
Form pieces, Making electrically insulating. U. Gubler. 1,944,508; Jan. 23.
Form, Road. J. N. Heltzel. 1,944,511; Jan. 23.
Form, Tire building. A. L. Heston. 1,944,865; Jan. 23.
Frame: *See*—
Curtain stretcher frame.
Freezing process and refrigerant, Quick. H. V. Atwell. 1,944,857; Jan. 23.
Fuel burner. J. A. De Vilbiss. 1,944,408; Jan. 23.
Fuel injection pump. O. Baur. 1,944,858; Jan. 23.
Fuel pump. E. A. Rockwell. 1,944,575; Jan. 23.
Fuels and lubricants from heavy hydrocarbons by the action of hydrogen, Simultaneously producing high grade motor. R. T. Haslam. 1,944,236; Jan. 23.
Furnace: *See*—
Continuous furnace.
Warm air furnace.
Refuse destructor furnace.
Furnace conveyer. O. K. Carpenter, W. E. Griffith, and P. S. Menough. 1,944,217; Jan. 23.
Furnace method, Electric. P. L. J. Miguet and M. P. Perron. 1,944,521; Jan. 23.
Furnace wall, Water cooled. O. Mygaard. 1,944,569; Jan. 23.
Furniture construction, Insulated. E. Ohnstrand. 1,944,263; Jan. 23.
Furniture drawer support, Wood. J. Tillotson, jr. 1,944,477; Jan. 23.
Fuse, Expulsion. J. Sandin. 1,944,762; Jan. 23.
Fuse, Mechanical time. A. Varaud. 1,944,623; Jan. 23.
Fuse of high sensitivity, Percussion. E. W. Brandt. 1,944,780; Jan. 23.
Game. O. W. Gustavson. 1,944,317; Jan. 23.
Game, Apparatus for playing a. J. Barker. 1,944,628; Jan. 23.
Garment. M. S. Erlanger. 1,944,416; Jan. 23.
Garment, Bathing. C. N. Winship. 1,944,482; Jan. 23.
Gas, Apparatus for making. J. Whikehart. 1,944,818; Jan. 23.
Gas feeding device. F. A. Duerr and E. A. Stierheim. 1,944,316; Jan. 23.
Gas generating device. W. H. Cheney. 1,944,544; Jan. 23.
Gases, Odorizing liquefied petroleum. F. E. Frey. 1,944,175; Jan. 23.
Gases, Treatment of coal distillation. S. P. Miller. 1,944,523; Jan. 23.
Gate: *See*—
Automatic gate.
Gear: *See*—
Bus and switch gear.
Vehicle steering gear.
Gear mechanism. R. J. Reaney. 1,944,370; Jan. 23.
Gearing. B. F. Gravely. 1,944,789; Jan. 23.
Gearing, Transmission. W. E. Dörr. 1,944,682; Jan. 23.
Glass, Method of and apparatus for making. H. A. Wadman. 1,944,855; Jan. 23.
Glass, Producing laminated. A. C. Schoepfer. 1,944,277; Jan. 23.
Glass sheets, Apparatus for tempering. C. Ziegler. 1,944,625; Jan. 23.
Glassware Apparatus for forming. K. E. Peiler and A. J. Smith. 1,944,844; Jan. 23.
Glassware, Method of and apparatus for forming. K. E. Peiler. 1,944,866; Jan. 23.
Glove manufacture. H. A. Gillian. 1,944,505; Jan. 23.
Goblet. E. Kanter. Des. 91,409; Jan. 23.
Golf register. M. J. Beach. 1, 944,629; Jan. 23.
Governor. W. S. Bowen. 1,944,210; Jan. 23.
Governor, Automatic engine. W. A. Engstrom and E. Ginn. 1,944,638; Jan. 23.
Grain drill. J. Schaeffer. 1,944,672; Jan. 23.
Graining rolls, Making. G. von Webern. 1,944,200; Jan. 23.
Grate bar. J. S. Thompson. 1,944,832; Jan. 23.
Grate from construction. R. Watson. 1,944,836; Jan. 23.
Grating. A. J. and W. A. Bates. 1,944,207; Jan. 23.
Grid bias, Positive. W. van B. Roberts. 1,944,574; Jan. 23.
Grinder. E. Bockshe. 1,944,489; Jan. 23.
Grinding bodies, Producing. T. Pohl. 1,944,807; Jan. 23.
Grinding in tube mills and the like. N. Nielsen. 1,944,755; Jan. 23.
Guard. M. C. Maish. 1,944,752; Jan. 23.
Guard, Cutter bar. W. M. Henderson. 1,944,644; Jan. 23.
Gulding attachment for band saws. G. L. Parrish. 1,944,524; Jan. 23.
Gun, Grease. E. R. Wharton. 1,944,201; Jan. 23.
Gun, Rotary abrasive blast. D. C. Coble and C. D. Steinmeier. 1,944,404; Jan. 23.
Hair curler. J. L. Everett. 1,944,417; Jan. 23.
Hair waver. J. Goodman. 1,944,737; Jan. 23.
Halide solutions to liberate free halogen, Controlling oxidation of. J. J. Grebe and R. H. Boundy. 1,944,788; Jan. 23.
Hand sanding tool. C. Blomstrom. 1,944,727; Jan. 23.
Handle: *See*—
Bottle cap handle.
Harvester, Bean. G. H. Self. 1,944,829; Jan. 23.

Harvester, Windrow. E. A. Johnston, A. C. Lindgren, C. R. Raney, and B. M. Hyman. 1,944,347; Jan. 23.
Harvester, Windrow. A. C. Lindgren and C. R. Raney. 1,944,750; Jan. 23.
Hat construction and method and apparatus for making the same. A. E. Hodshon. 1,944,791; Jan. 23.
Hat ironing machine or the like. J. F. Doran. 1,944,655; Jan. 23.
Heat control for manifolds. O. C. Berry. 1,944,306; Jan. 23.
Heat measuring apparatus. A. B. Young. 1,944,587; Jan. 23.
Heater: *See*—
Electric liquid heater.
Percolator heater.
Oil heater.
Water heater.
Heater and fireplace, Combined. E. A. Allbert. 1,944,626; Jan. 23.
Heating apparatus. L. S. Chadwick, M. Resek, and C. J. Kessler. 1,944,593; Jan. 23.
High pressure reducing valve. W. H. Gleeson. 1,944,424; Jan. 23.
Hinge. E. N. Winslow. 1,944,386; Jan. 23.
Hoist. C. V. Koons. 1,944,713; Jan. 23.
Hoist mechanism. G. L. Landry. 1,944,351; Jan. 23.
Holder: *See*—
Adjustable lens holder.
Type-matrix holder.
Drop cloth holder.
Wheel holder.
Snap-on holder.
Holder for towels and the like. A. F. Herman. 1,944,343; Jan. 23.
Honing tool. F. M. Kern. 1,944,662; Jan. 23.
Hook: *See*—
Snap hook.
Hoop, Embroidery. J. D. Karle. 1,944,690; Jan. 23.
Hosiery. W. P. Brown. 1,944,591; Jan. 23.
Hosiery press. E. J. Schremp. 1,944,376; Jan. 23.
Hub assembly for wheels. C. R. Stough. 1,944,724; Jan. 23.
Humidifier. E. Schneider. 1,944,375; Jan. 23.
Humidifier, Air. G. D. Doherty. 1,944,411; Jan. 23.
Hydrant. F. R. Banks. 1,944,777; Jan. 23.
Hydrocarbon materials containing sulphurous impurities, Treatment of. H. W. Fisher. 1,944,639; Jan. 23.
Hydrocarbons and of providing a protective buffer for apparatus, Desulphurizing, decolorizing, deodorizing and degumming. H. T. Darlington. 1,944,170; Jan. 23.
Hydrocarbons, Treating. J. D. Zieley. 1,944,483; Jan. 23.
Ignition magneto. L. Beeh. 1,944,590; Jan. 23.
Impulse repeater. J. I. Bellamy. 1,944,704; Jan. 23.
Indicator: *See*—
Aircraft indicator.
Door lock indicator.
Indicator. H. A. Gates. 1,944,554; Jan. 23.
Injection engine. F. Lang. 1,944,352; Jan. 23.
Injection engine. F. Lang. 1,944,605; Jan. 23.
Injector. F. Ritz. 1,944,371; Jan. 23.
Inking apparatus for typewriting machines having type cylinders. O. Fischer. 1,944,597; Jan. 23.
Insulating material, Manufacture of. A. Kronstein. 1,944,562; Jan. 23.
Insulator, Oil bath. R. Weill. 1,944,383; Jan. 23.
Internal combustion engine. J. H. Crary. 1,944,785; Jan. 23.
Internal combustion engine. I. Wright. 1,944,652; Jan. 23.
Iodine, Recovery of. C. W. Girvin. 1,944,423; Jan. 23.
Iron and producing same, Galvanized malleable. V. S. Durbin. 1,944,227; Jan. 23.
Jacket, Infant's and child's restraining. H. L. Newman. 1,944,451; Jan. 23.
Jacking and sidewise motion transmitting device for automotive vehicles. P. L. Dounis and A. Jordanoglou. 1,944,501; Jan. 23.
Jacquard mechanism. A. F. Schuler. 1,944,815; Jan. 23.
Japanning on concrete surfaces. S. Asobe. 1,944,588; Jan. 23.
Journal box, Roller bearing. A. O. Buckius. 1,944,705; Jan. 23.
Knock-out. H. A. Calderwood. 1,944,706; Jan. 23.
Knock-out, Removable. M. M. Clayton. 1,944,707; Jan. 23.
Lace. S. H. Page. Des. 91,411; Jan. 23.
Ladder. E. M. House. 1,944,792; Jan. 23.
Lamp: *See*—
Electric incandescent lamp.
Flash light lamp.
Lamp and operating the same, Thermionic cathode. A. W. Hull. Re19,057; Jan. 23.
Lathe. W. F. Groene. 1,944,231; Jan. 23.
Lead against corrosion, Protecting. H. Benit. 1,944,778; Jan. 23.
Lead-in, Multiple tubular. J. F. Lee. 1,944,186; Jan. 23.
Leak-proof collapsible tube. G. Aufricht. 1,944,589; Jan. 23.
Lens, Stop light. J. B. Dickson. 1,944,154; Jan. 23.
Lever, Operating. J. Schweiss. 1,944,531; Jan. 23.
Lid for milk cans or like. L. A. Perkins and A. C. Wilson. 1,944,458; Jan. 23.
Light control system. F. W. Lyle. 1,944,751. Jan. 23.
Lighter. J. Copilovich. 1,944,496; Jan. 23.
Lighter, Cigar. J. Holtzman. 1,944,177; Jan. 23.
Line composing and type casting machine. S. E. Sperry. 1,944,852; Jan. 23.
Lining for crucibles and the like, Refractory. H. Schultz. 1,944,278; Jan. 23.
Lint stripper. J. H. Riedling. 1,944,271; Jan. 23.
Lip stick, Device for use in applying. M. Libby. 1,944,691; Jan. 23.
Liquid, Apparatus for controlling characteristics of a. Z. J. Kegl and H. M. Larsen. 1,944,243; Jan. 23.
Liquid dispensing pump. A. Larsen. 1,944,288; Jan. 23.
Liquids, Apparatus for controlling the level of. H. H. Marshall. 1,944,716; Jan. 23.
Liquids, Apparatus for disseminating solids in. E. Cowles. 1,944,836; Jan. 23.
Liquids by treatment with chlorine, Method and device for purifying aqueous. G. Ornstein. 1,944,804; Jan. 23.
Locking means for spare vehicle wheels and the tires thereof. F. W. Henke, jr. 1,944,512; Jan. 23.
Locomotive structure. E. G. Hallquist and W. C. Krautheim. 1,944,427; Jan. 23.
Locomotive structure. H. M. Pflager. 1,944,459; Jan. 23.
Loom for weaving without a shuttle. L. P. J. A. Verriere. 1,944,830; Jan. 23.
Loom harness and mail eye therefor. J. L. King. 1,944,516; Jan. 23.
Loom shuttle, Automatically threading. D. L. Norris. 1,944,802; Jan. 23.
Loud-speaker cone. R. R. Du Puy. 1,944,861; Jan. 23.
Lubricating compound. G. S. Rutherford. 1,944,873; Jan. 23.
Lubricating device. F. Henrard. 1,944,837; Jan. 23.
Lubricating device. M. Newmark and E. Moss. 1,944,191; Jan. 23.
Lubricating means for metal shaping machines. A. E. Robinson. 1,944,828; Jan. 23.
Luggage. E. Dresner. 1,944,172; Jan. 23.
Lumber and making the same, Laminated. E. E. Heineman. 1,944,237; Jan. 23.
Luminous projection. A. Marsat. 1,944,187; Jan. 23.
Machine for fastening lids to hampers and baskets. H. Matthews, J. H. Warntjes, E. Arthurs, and W. C. Wilkinson. 1,944,254; Jan. 23.
Machine for making laundry bags. M. H. Sidebotham. 1,944,532; Jan. 23.
Machine for making tubes. L. S. Rosener. 1,944,465; Jan. 23.
Machine for use in the manufacture of boots and shoes. G. Hinzelton. 1,944,319; Jan. 23.
Machine or apparatus for cutting plastic toffee or like material. A. G. Rose. 1,944,577; Jan. 23.
Machine tool transmission and control mechanism. F. A. Parsons. 1,944,455; Jan. 23.
Magnetic plug. A. E. Bock. 1,944,208; Jan. 23.
Mailing novelty. S. L. Unger. 1,944,853; Jan. 23.
Make-up box. M. Factor. 1,944,502; Jan. 23.
Mandrel. E. Snyder. 1,944,582; Jan. 23.
Mangling roller. P. Scheibe. 1,944,373; Jan. 23.
Manifold. F. O. and T. M. Ball. 1,944,206; Jan. 23.
Manure distributor. A. G. Satsky and P. Lastovica. 1,944,847; Jan. 23.
Marking device. H. W. Moore. 1,944,259; Jan. 23.
Mask, Welder's. F. M. Bowers. 1,944,399; Jan. 23.
Mat, Table. B. Gershon. 1,944,686; Jan. 23.
Material, Method for the handling of. J. B. Webb and H. A. Stevenson. 1,944,771; Jan. 23.
Materials, Apparatus for separation of dry. C. W. H. Holmes. 1,944,643; Jan. 23.
Matrix melting press. E. Brockel. 1,944,728; Jan. 23.
Mattress, Pneumatic. B. C. Rubin. 1,944,466; Jan. 23.
Metal foil and manufacture thereof, Coated. K. Klichling. 1,944,323; Jan. 23.
Metal, Siphoning. V. C. Doerschuk and E. G. Schaeffel. 1,944,733; Jan. 23.
Metallurgical apparatus. J. R. Munro. 1,944,449; Jan. 23.
Meter: *See*—
Proportional gas meter.
Wave meter.
Meter. W. C. Downing, jr. 1,944,656; Jan. 23.
Methyl abietate and method of producing, Hydrogenated. I. W. Humphrey. 1,944,241; Jan. 23.
Microphone for the deaf. H. Sell. 1,944,720; Jan. 23.
Mineral product and making the same, Colored. P. Maynard. 1,944,294; Jan. 23.
Molding compositions, including a fibrous filler and an organic binder, Treating plastic. L. T. Richardson. 1,944,464; Jan. 23.
Molding machine. W. E. Rahm. 1,944,571; Jan. 23.
Molds, Making. O. J. Kublke. 1,944,744; Jan. 23.
Molybdenum from substances containing molybdenum or its compounds, Recovery of. J. Giesen and E. Peukert. 1,944,420; Jan. 23.
Money handling machine. E. J. Brandt. 1,944,313; Jan. 23.
Motor: *See*—
Alternating current motor.
Electromagnetic vibratory motor.
Mounting, Motor. R. K. Lee and C. L. Humphrey. 1,944,248; Jan. 23.
Movement controlling device. E. L. Heverly. 1,944,689; Jan. 23.
Mower. H. S. Dickinson. 1,944,410; Jan. 23.
Mower, Power-driven lawn. H. J. Stegeman and L. W. Barnes. 1,944,584; Jan. 23.
Multiple pole switch. L. C. Hart. 1,944,235; Jan. 23.
Multiplying machine with improved checking features. D. J. Oldenboom. 1,944,665; Jan. 23.
Music leaf-turning machine. J. H. Miller. 1,944,295; Jan. 23.

Nail. B. C. Brugge. 1,944,150; Jan. 23.
Novelty lock box. K. Soderberg. 1,944,722; Jan. 23.
Nozzle for pouring molten metal. L. F. Reinartz and C. B. Fon Dersmith. 1,944,611; Jan. 23.
Nozzle intended for spinning artificial silk. E. Orioli. 1,944,298; Jan. 23.
Nut cracker. W. H. Ammon. Des. 91,384; Jan. 23.
Nut, Lock. G. A. Crowther. 1,944,595; Jan. 23.
Nut placer for tappers. W. L. Clouse. 1,944,653; Jan. 23.
Oil and testing the same, Chassis lubricating. J. Bijur. 1,944,164; Jan. 23.
Oil heater. A. E. Harnsberger and C. L. Smith. 1,944,318; Jan. 23.
Oil leaks in cables, Apparatus for locating. L. Emanueli. 1,944,637; Jan. 23.
Oil, Producing lubricating. U. B. Bray. 1,944,491; Jan. 23.
Oil saver. W. O. Bickerstaff. 1,944,398; Jan. 23.
Oiler, Flange. P. I. Roberts. 1,944,272; Jan. 23.
Oiler, Rail. G. M. Osterberg. 1,944,666; Jan. 23.
Olefines, Absorbing. A. J. van Peski. 1,944,622; Jan. 23.
Olefines, Formation of. P. K. Frolich and B. C. Boeckeler. 1,944,419; Jan. 23.
1.1,2 trichloro-ethane, Producing. J. Soll. 1,944,306; Jan. 23.
One-piece cutter. L. C. Schillo. Re19,059; Jan. 23.
Organic compounds having hydrogenated ring systems and preparing it. O. Diels and K. Alder. 1,944,731; Jan. 23.
Outlet construction. E. M. Callaway. 1,944,401; Jan. 23.
Outside cutting tool. W. L. Church, L. M. Pearce, and J. K. Clark. 1,944,594; Jan. 23.
Paints, enamels, etc., Manufacture of. F. Schmid. 1,944,813; Jan. 23.
Panel device, Folding. E. Reichl. 1,944,696; Jan. 23.
Paper cup dispenser. S. N. Hope and P. Drath. 1,944,431; Jan. 23.
Paper feeding mechanism. D. F. Schumacher. 1,944,673; Jan. 23.
Paper, Making filled surface. C. F. Boyers. 1,944,835; Jan. 23.
Parachute apparatus. E. H. Nichols. 1,944,801; Jan. 23.
Parachute rip cord apparatus. H. E. Lafayette. 1,944,795; Jan. 23.
Pen filling protector, Ink bottle. C. W. MacMillan. Re19,061; Jan. 23.
Pencil, Striping. G. A. Primrose. 1,944,868; Jan. 23.
Percolator heater. A. F. Larsen. 1,944,438; Jan. 23.
Percussive hand tool. J. J. Rawlings. 1,944,572; Jan. 23.
Perfume diffuser. L. M. Blaise. 1,944,821; Jan. 23.
Photographic dark slide device. J. Kronschnabl. 1,944,581; Jan. 23.
Photographic objective. H. S. Newcomer. Re19,056; Jan. 23.
Photographically sensitive element. M. Martinez. 1,944,293; Jan. 23.
Photographing burglars or other intruders. G. W. Brown. 1,944,212; Jan. 23.
Photogravure process and metal plate therefor. N. Ludvigsen. 1,944,354; Jan. 23.
Pickling device employing vibration. E. N. Millan and E. B. Hudson. 1,944,607; Jan. 23.
Piston. R. E. Day. 1,944,223; Jan. 23.
Piston. F. Frelin. 1,944,708; Jan. 23.
Piston. A. L. Nelson. 1,944,381; Jan. 23.
Pitcher. E. Kanter. Des. 91,408; Jan. 23.
Plate or article of analogous nature. F. Poppenhauser. Des. 91,398–9; Jan. 23.
Plates, Stacking loaded butter cube. J. Osherman and C. H. Marsh. 1,944,827; Jan. 23.
Plow. W. H. Silver. 1,944,674; Jan. 23.
Plumbing connection, Sanitary. J. Simpson. 1,944,850; Jan. 23.
Plug: *See*—
Magnetic plug.
Pneumatic dispatch apparatus. J. J. Stoetzel. 1,944,769; Jan. 23.
Pocket receptacle, Flexible. W. R. Buxton. 1,944,635; Jan. 23.
Polishing device. S. R. Bell. 1,944,395; Jan. 23.
Portable adjustable bar. I. Copeland. 1,944,405; Jan. 23.
Potentiometer. R. H. Langley. 1,944,329; Jan. 23.
Powder, Producing bleaching. A. Remelé. 1,944,301; Jan. 23.
Power and control therefor, Generating. W. M. Cross. 1,944,222; Jan. 23.
Power transmission device. A. H. Neuland. Re19,063; Jan. 23.
Power transmitting unit for vehicles. C. W. Floss. 1,944,685; Jan. 23.
Press: *See*—
Hosiery press. Rotary printing press.
Matrix melting press.
Presser-foot for zigzag-stitching attachments. J. D. Karle. 1,944,515; Jan. 23.
Pressure release for revolving doors. J. W. Shields. 1,944,197; Jan. 23.
Print drier, Photographic. J. S. Greene. 1,944,600; Jan. 23.
Printing. G. Rivat. 1,944,372; Jan. 23.
Printing mechanism. G. Tauschek. 1,944,675; Jan. 23.
Propeller, Twin. L. Medina y Pereyra. 1,944,525; Jan. 23.
Proportional gas meter. G. Wünsch. 1,944,339; Jan. 23.
Protective device for hose lines. J. K. Lencke. 1,944,249; Jan. 23.
Protector: *See*—
Pen filling protector.
Protractor. E. W. Sandell. 1,944,812; Jan. 23.
Pulley. C. W. Valentine, P. N. Ottersland, and G. A. Fairbanks. 1,944,284; Jan. 23.
Pulley, Multigrooved. R. H. Bowen. 1,944,779; Jan. 23.
Pulverizer. C. D. St. Clair. 1,944,474; Jan. 23.
Pump: *See*—
Fuel injection pump. Liquid dispensing pump.
Fuel pump.
Pump. L. Saussard. 1,944,648; Jan. 23.
Pump for internal-combustion engines, Fuel. K. J. E. Hesselman. 1,944,320; Jan. 23.
Pumps, Auxiliary means for fuel. J. Zubaty and A. M. Babitch. 1,944,340; Jan. 23.
Quotation projection or similar apparatus. A. D. Eitzen. 1,944,174; Jan. 23.
Radiant energy detector. W. Sackville. 1,944,194; Jan. 23.
Radiator cap. L. K. Franklin. Des. 91,389; Jan. 23.
Radiator, Furnace. T. Crick. 1,944,497; Jan. 23.
Radio beam system, Directional. G. G. Kruesi. 1,944,563; Jan. 23.
Radio communication system, Wired. W. Dubilier. 1,944,226; Jan. 23.
Rail bond. P. P. Pipes. 1,944,366; Jan. 23.
Ratchet wrench. A. Daugherty. 1,944,171; Jan. 23.
Rayon, Process and apparatus for producing dull luster. R. A. J. Thenos. 1,944,378; Jan. 23.
Razor, Safety. J. Holtzman. 1,944,604; Jan. 23.
Razor, Safety. H. L. MacNeill. 1,944,356; Jan. 23.
Receptacle: *See*—
Pocket receptacle.
Record analyser. R. Zigueldé. 1,944,678; Jan. 23.
Record perforating device. J. T. Schaaff. 1,944,671; Jan. 23.
Rectifier with a plurality of anodes, Electrical discharging. W. Germershausen. 1,944,555; Jan. 23.
Reel. S. A. Oravec and M. J. Shedlock. 1,944,264; Jan. 23.
Reel. E. G. Purdy. 1,944,669; Jan. 23.
Reel for transporting cable. L. R. McGuire. 1,944,188; Jan. 23.
Refractory and batch composition for producing such a refractory, Glass resistant. P. G. Willetts. 1,944,856; Jan. 23.
Refractory body and manufacturing the same. K. Friedersdorff. 1,944,709; Jan. 23.
Refrigerating apparatus. O. M. Summers. 1,944,617; Jan. 23.
Refrigeration. E. B. Miller. 1,944,799; Jan. 23.
Refrigeration. H. Sloan, E. S. H. Baars, and C. G. Bach. 1,944,472; Jan. 23.
Refrigerator or the like, Bottle dispensing. C. A. Frick. Des. 91,390–1; Jan. 23.
Refuse destructor furnace. S. Symington. 1,944,816; Jan. 23.
Regulating system. L. R. Quarles. 1,944,756; Jan. 23.
Regulator system. T. B. Montgomery. 1,944,189; Jan. 23.
Relay, Overload. G. O. Wilms. Re19,062; Jan. 23.
Remote control, System of. L. A. Hudson. 1,944,826; Jan. 23.
Resin solution and preparing same. J. H. Schmidt and R. S. Daniels. 1,944,867; Jan. 23.
Resistor. L. L. Jones. 1,944,558; Jan. 23.
Retinoscope or like instrument for ascertaining objectively the refraction of eyes. C. R. Crofton. 1,944,406; Jan. 23.
Rivet, Expansion. G. Johnson. 1,944,513; Jan. 23.
Rod: *See*—
Fishing rod.
Roller: *See*—
Mangling roller.
Roller bearing. O. F. Packer. 1,944,364; Jan. 23.
Roofing granule. E. H. Nichols. 1,944,800; Jan. 23.
Rope center, Paper wire. M. C. Dodge. 1,944,786; Jan. 23.
Rope clamp. F. P. Mansbendel. 1,944,252; Jan. 23.
Rope locking device, Theatrical. R. P. Hecker. 1,944,603; Jan. 23.
Rope or the like, Splicing or tying of. F. P. Mansbendel. 1,944,251; Jan. 23.
Rope sheave, Elevator compensating. K. M. White. 1,944,772; Jan. 23.
Rotary printing press, Sheet feed. H. M. Barber. 1,944,703; Jan. 23.
Rubber, Vulcanizing. W. Huhn. 1,944,346; Jan. 23.
Safe. A. Hofer and F. Danninger. 1,944,430; Jan. 23.
Safety device for aircraft. G. Ajello. 1,944,484; Jan. 23.
Safety device for motor vehicles, Combination road lighting and reflecting. W. J. Roepke. 1,944,576; Jan. 23.
Safety device for rock drills. E. B. Lear. 1,944,247; Jan. 23.
Sampling device. S. E. Atkins and T. Carlson. 1,944,392; Jan. 23.
Sandal. W. G. Maxcy. 1,944,664; Jan. 23.
Sanitary attachment for beverage vending machines. R. L. Rogers. 1,944,810; Jan. 23.
Sash construction. W. S. Hamm. 1,944,232; Jan. 23.
Sash control for sliding windows. B. E. Myers. 1,944,450; Jan. 23.
Sawmill dog. A. L. Haase. 1,944,285; Jan. 23.
Sawmill dog. R. E. Langill. 1,944,287; Jan. 23.

Seal for boiler drums, Air. M. H. Kuhner. 1,944,350; Jan. 23.
Seal for vehicle license plates, Locking. W. S. Salisbury. 1,944,195; Jan. 23.
Semitrailer. S. B. Winn. 1,944,773–4; Jan. 23.
Sewing-machines, Pinking attachment for. V. J. Sigoda. 1,944,580; Jan. 23.
Sewing machines, Trimmer mechanism for. F. M. Card. 1,944,548; Jan. 23.
Sharpener, Knife. G. R. Wood. 1,944,702; Jan. 23.
Sheathing for surfaces and method of applying metal foil, Metallic protecting. H. F. Perkins. 1,944,457; Jan. 23.
Sheave for wire cables. H. B. Greening. 1,944,426; Jan. 23.
Sheet feeding mechanism. W. F. Huck. 1,944,711; Jan. 23.
Sheet or signature delivery mechanism. E. R. Kast. 1,944,712; Jan. 23.
Shield for vehicle windows. W. T. Clark. 1,944,152; Jan. 23.
Shingle facing machine. G. A. Bergstrom. 1,944,631; Jan. 23.
Shoddy-picker. A. J. Perron. 1,944,526; Jan. 23.
Shoe and making the same. E. Schneider. 1,944,763; Jan. 23.
Shoe and shoe bottom unit. F. L. Brandt. 1,944,314; Jan. 23.
Shoe shining stand. C. D. Funk. 1,944,736; Jan. 23.
Shoe stand. W. H. Smith, sr. 1,944,649; Jan. 23.
Shoes, Making. W. J. Kelly. 1,944,560; Jan. 23.
Side plate for centrifugal pumps. W. E. Geer. 1,944,504; Jan. 23.
Sight and sound, Reproduction of spacially coordinated. W. B. Jones. 1,944,182; Jan. 23.
Sign. T. Crick. 1,944,498; Jan. 23.
Sign construction, Illuminated. L. Schepmoes. 1,944,276; Jan. 23.
Sign for bottled products, Display. G. W. Roberts. Des. 91,400; Jan. 23.
Signal: *See*—
Direction signal.
Signal for electrical apparatus, Audible safety. T. Anderson. 1,944,627; Jan. 23.
Signaling system. E. T. Burton. 1,944,216; Jan. 23.
Signaling system. W. F. Eames. 1,944,735; Jan. 23.
Signals by radio, Transmission of printer. R. E. Mathes. 1,944,565; Jan. 23.
Silk, Process and apparatus for dry spinning artificial. E. Orioli. 1,944,299; Jan. 23.
Sizing apparatus. A. J. Langhammer. 1,944,246; Jan. 23.
Skid. R. L. Rickwood. 1,944,845; Jan. 23.
Skiving machine. R. B. Woodcock and H. Boothroyd. 1,944,311; Jan. 23.
Slasher. K. B. Cook. 1,944,221; Jan. 23.
Slip-sheeting attachment for mimeograph or similar apparatus. C. E. Higbee. 1,944,176; Jan. 23.
Slitting device. J. A. Cameron. 1,944,781; Jan. 23.
Slug casting machine. R. R. Mead. 1,944,359; Jan. 23.
Slurry, Apparatus for treating. E. J. Ochs. 1,944,452; Jan. 23.
Snap hook. G. W. Stowell. 1,944,475; Jan. 23.
Snap-on holder. P. D. Phillips. 1,944,717; Jan. 23.
Soap dispenser. C. McVicker. 1,944,447; Jan. 23.
Socket connection Electric. A. Regenauer and F. E. Reynolds. 1,944,719; Jan. 23.
Socket device. C. L. Knutson. 1,944,517; Jan. 23.
Socket, Electric. D. D. Gordon. 1,944,342; Jan. 23.
Soda solution, Purification of caustic. H. Bender. 1,944,630; Jan. 23.
Soldering tool. M. J. Cohan. 1,944,860; Jan. 23.
Solid substances from liquid by vacuum cooling in stages, Separation of. K. Ebner. 1,944,548; Jan. 23.
Sorting machine for record cards. C. Campbell. 1,944,680; Jan. 23.
Sound from records, Apparatus for reproducing. W. E. Williams. 1,944,202; Jan. 23
Sound reproducing instrument. F. A. Mitchell. 1,944,258; Jan. 23.
Speed control for stock quotation projectors, Variable. A. D. Eitzen. 1,944,173; Jan. 23.
Speed mechanism, Automatic change. R. W. Todd. 1,944,585; Jan. 23.
Splice vulcanizing apparatus. A. B. Mullin. 1,944,754; Jan. 23.
Spring connection. J. W. Smith. 1,944,766; Jan. 23.
Spring reset limit switch, Reversible. O. G. Rutemiller and G. E. King. 1,944,761; Jan. 23.
Stair construction. O. A. Bailey. 1,944,150; Jan. 23.
Stamp, Time. B. H. Phillips. 1,944,695; Jan. 23.
Stand: *See*—
Shoe shining stand. Shoe stand.
Staples in wire bound boxes, Apparatus for controlling the position of. G. L. Colbie. 1,944,493; Jan. 23.
Starter for internal-combustion engines. L. Gerard. 1,944,641; Jan. 23.
Steam treatments, Apparatus for applying. J. E. Kelley. 1,944,348; Jan. 23.
Steel, Annealing. F. C. Kelley. 1,944,743; Jan. 23.
Steel spider, Fabricated. E. E. Arnold. 1,944,776; Jan. 23.
Steels, Quenching. W. Mellor. 1,944,798; Jan. 23.
Steering mechanism, etc. W. O. Tait, jr. 1,944,700; Jan. 23.
Step for manholes. R. H. West. 1,944,384; Jan. 23.
Stop, Automatic door. A. J. Wecker. 1,944,382; Jan. 23.
Striping device. D. J. Dickerson. 1,944,224; Jan. 23.
Stropping device. F. J. Katteyer. 1,944,793; Jan. 23.
Suction fishing tool. O. A. Cavins. 1,944,169; Jan. 23.
Suitcase. H. B. Bourland. 1,944,633; Jan. 23.
Sulphodihalogenamides, Manufacture of aromatic. H. Mirau. 1,944,568; Jan. 23.
Support: *See*—
Adjustable foot support. Trunnion adjustable support.
Furniture drawer support port.
Support. W. F. Barnes. 1,944,833; Jan. 23.
Support for high-frequency apparatus. H. Muth. 1,944,262; Jan. 23.
Supporting device on skates, roller skates, and the like. R. Deyhle. 1,944,409; Jan. 23.
Surface ornamentation and apparatus for same, Method of. G. Prifold. 1,944,528; Jan. 23.
Swing. W. R. McGowen. 1,944,445–6; Jan. 23.
Switch: *See*—
Electric switch. Spring reset limit switch.
Multiple pole switch.
Switch construction, Push button. C. Miller and J. C. Joost. 1,944,522; Jan. 23.
Switch mechanism. P. R. Forman. 1,944,157; Jan. 23.
Tabulating machine. J. R. Peirce. 1,944,667; Jan. 23.
Tabulator, Debit and credit. H. A. Weinlich. 1,944,677; Jan. 23.
Tacking machine. F. R. Zimmerman and V. B. Killelea. 1,944,388; Jan. 23.
Tag, Address. P. Wright. 1,944,387; Jan. 23.
Telegraph repeater. J. J. Catogge. 1,944,218; Jan. 23.
Telegraphone. C. N. Hickman. 1,944,238; Jan. 23.
Telephone interconnecting circuit. F. Strecker. 1,944,283; Jan. 23.
Telephone set. O. Weeber and O. Soldan. 1,944,701; Jan. 23.
Telephone system. E. Ehricke. 1,944,684; Jan. 23.
Telephone system. F. A. Korn. 1,944,244; Jan. 23.
Telephone system. E. C. Oliver. 1,944,693; Jan. 23.
Telephone system. E. S. Peterson. 1,944,694; Jan. 23.
Telephone system. A. Raynsford and W. T. Haines. 1,944,269; Jan. 23.
Telephone system. R. F. Stehlik. 1,944,698; Jan. 23.
Telephone systems, Arrangement relating to automatic. A. H. Olson and S. D. Vigren. 1,944,570; Jan. 23.
Textile fabric. J. Aemisegger. Des. 91,383; Jan. 23.
Textile fabric. M. U. Juestrich. Des. 91,404–6; Jan. 23.
Textile fabric. H. Flatz. Des. 91,403; Jan. 23.
Textile fabric. M. U. Juestrich. Des. 91,404 6; Jan. 23.
Textile fabric or similar article. P. Reiman. Des. 91,412–13; Jan. 23.
Textile fabric or similar article. W. Willheim. Des. 91,415; Jan. 23.
Thermostatic control device. J. G. McNamara. 1,944,358; Jan. 23.
Tires, Manufacturing. A. O. Abbott, jr. 1,944,389; Jan. 23.
Toaster device. A. B. Starr. 1,944,473; Jan. 23.
Tool: *See*—
Buffing tool. Percussive hand tool.
Hand sanding tool. Soldering tool.
Honing tool. Suction fishing tool.
Outside cutting tool.
Tool for setting a liner in an oil well or the like, Setting. W. T. Wells. 1,944,481; Jan. 23.
Tool or the like, Cylinder honing. F. J. Jeschke. 1,944,660; Jan. 23.
Toothbrush. J. R. McElwain. 1,944,797; Jan. 23.
Tractor, Marine. E. Johnson. 1,944,242; Jan. 23.
Tractor, Tracklaying. D. B. Baker, C. R. Rogers, and N. O. Panzegrau. 1,944,393; Jan. 23.
Train pipe connecter, Automatic. J. Robinson. 1,944,193; Jan. 23.
Transfer device, Automatically controlled. H. F. Martin. 1,944,253; Jan. 23.
Transferring device. P. Schonfeld. 1,944,615; Jan. 23.
Transmission mechanism, Freewheeling. S. M. Coffman. 1,944,220; Jan. 23.
Transmission mechanism, Synchronized. E. A. Thompson. 1,944,331; Jan. 23.
Transmission network. H. W. Bode. 1,944,209; Jan. 23.
Transmission of synchronizing pulses, Automatic. M. H. Woodward 1,944,586; Jan. 23.
Transmission system. H. C. Turner. 1,944,308; Jan. 23.
Trap: *See*—
Boiler return and vacuum trap.
Tray and stand, Combined service. M. Ritter. 1,944,757; Jan. 23.
Trolley pole carrier, Spare. H. A. Leonhauser. 1,944,289; Jan. 23.
Trunnion adjustable support. E. J. Langer. 1,944,185; Jan. 23.
Trunnion structure for ladies. W. de Fries. 1,944,824; Jan. 23.
Tube: *See*—
Leakproof collapsible tube. Vacuum tube.
Tube and flue expander. G. Wiedeke. 1,944,338; Jan. 23.
Tubing head. W. L. Church. 1,944,545; Jan. 23.
Turbine, Radial flow elastic fluid. O. A. Wiberg and O. Möller. 1,944,537; Jan. 23.
Turbine, Radial flow elastic fluid. O. A. Wiberg. 1,944,538; Jan. 23.

Turbine, Steam. A. Meyer. 1,944,520; Jan. 23.
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Type-matrix holder, Offset aligning. P. P. Merrill. 1,944,519; Jan. 23.
Underreamer, Hydraulic. A. L. Halliday and F. Jones. 1,944,556; Jan. 23.
Universal machine for canting and circular-bending. A. Wachter. 1,944,651; Jan. 23.
Upholstery construction. J. P. Salmon. 1,944,614; Jan. 23.
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Vacuum cleaner casing. A. Fordyce. Des. 91,388; Jan. 23.
Vacuum tube. I. E. Mouromtseff. 1,944,190; Jan. 23.
Valve: *See*—
  Flush valve.
  High pressure reducing valve.
Valve. C. M. Bailey. 1,944,486; Jan. 23.
Valve. F. R. Dippman. 1,944,155; Jan. 23.
Valve. G. L. Hammon. 1,944,428; Jan. 23.
Valve. N. C. Hunt. 1,944,739; Jan. 23.
Valve actuating mechaniam. O. L. Olsen. 1,944,826; Jan. 23.
Valve apparatus for fluid regulators, Balanced. O. B. Goldkamp. 1,944,425; Jan. 23.
Valve construction. C. A. Pearson. 1,944,456; Jan. 23.
Valve devices, Temperature and pressure relief. L. D. Lovekin and J. L. Le Gorre. 1,944,518; Jan. 23.
Valve for blast furnaces, Explosion or bleeder. M. Svorcina. 1,944,770; Jan. 23.
Valves from electric solenoids and the like, Operating. J. L. Kimball. 1,944,841; Jan. 23.
Vaporizing burner. O. B. Lawrence. 1,944,842; Jan. 23.
Vehicle body construction, Motor. N. P. Larsen. 1,944,439; Jan. 23.
Vehicle, Motor. E. G. Purdy. 1,944,668; Jan. 23.
Vehicle steering gear. A. Toupin. 1,944,333; Jan. 23.
Vending machine. J. A. Crimp. 1,944,499; Jan. 23.
Vending machine. J. Fritsche and J. C. Hadik. 1,944,229; Jan. 23.
Ventilator: *See*—
  Crankcase ventilator.
Ventilator. W. L. C. Huxter. 1,944,321; Jan. 23.
Vermin, Device for destroying. L. Cook. 1,944,784; Jan. 23.
Vessels and the apparatus used, Manufacturing. E. Pfaendler. 1,944,527; Jan. 23.
Warm air furnace. H. A. Bertossa. 1,944,488; Jan. 23.
Washing machine. G. P. Anstiss. 1,944,679; Jan. 23.
Water heater. W. S. Thomas. 1,944,817; Jan. 23.
Water treatment. G. Ornstein. 1,944,803; Jan. 23.
Wave meter. E. F. Lewis. 1,944,564; Jan. 23.
Welding machine. R. T. Gillette and L. R. Leveen. 1,944,863; Jan. 23.
Well, Apparatus and method of completing a. S. E. Manning. 1,944,443; Jan. 23.
Welting. H. A. Osborne. 1,944,805; Jan. 23.
Wheel holder. H. B. Potter. 1,944,266; Jan. 23.
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Winding device for watches. H. Colomb. 1,944,654; Jan. 23.
Wires and the like, Coloring and coating. N. C. Lamont. 1,944,823; Jan. 23.
Work feed control for locating staples in wirebound boxes. G. L. Colbie. 1,944,494; Jan. 23.
Workholder. D. A. Scarnegie. 1,944,304; Jan. 23.
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  Ratchet wrench.
Wringer, Safety clothes. W. L. Kauffman, 2d. 1,944,433; Jan. 23.
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ISSUED JANUARY 23, 1934

NOTE.—First number = class, second number = subclass, third number = patent number

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95: 1,944,539
96: 1,944,645
98: 1,944,241
1,944,530
1,944,622
106: 1,944,542
123: 1,944,731
124: 1,944,514
127: 1,944,300
130: 1,944,843
136: 1,944,732
154: 1,944,681
156: 1,944,400
158: 1,944,568
166: 1,944,161
1,944,306
1,944,839
170: 1,944,419
171: 1,944,153
261— 30: 1,944,225
41: 1,944,547
56: 1,944,397
60: 1,944,309
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261— 121: 1,944,818
263— 1: 1,944,449
6: 1,944,217
17: 1,944,729
48: 1,944,278
264— 17: 1,944,210
265— 1: 1,944,344
12: 1,944,353
24: 1,944,334
266— 8: 1,944,798
7: 1,944,607
38: 1,944,733
267— 54: 1,944,766
270— 80: 1,944,712
271— 2.3: 1,944,173
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273— 97: 1,944,628
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281— 5: 1,944,387
285— 58: 1,944,193
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139: 1,944,219
143: 1,944,191
286— 16: 1,944,398
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287—52.02: 1,944,531
108: 1,944,777
290— 55: 1,944,239
292— 145: 1,944,650
224: 1,944,450
334: 1,944,382
338: 1,944,783
294— 86: 1,944,169
296— 24: 1,944,439
28: 1,944,429
44: 1,944,152
84: 1,944,160
97: 1,944,468
298— 22: 1,944,414
299— 24: 1,944,375
63: 1,944,322
77: 1,944,249
107.2: 1,944,371
301— 9: 1,944,724
303— 54: 1,944,485
305— 9: 1,944,393
308— 117: 1,944,284
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174: 1,944,364
180: 1,944,705
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309— 11: 1,944,223
1,944,361
15: 1,944,708
312— 7: 1,944,687
37: 1,944,229
49: 1,944,499
60: 1,944,431
141: 1,944,394
164: 1,944,405

U. S. GOVERNMENT PRINTING OFFICE: 1934

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Agnew, John M., doing business as Bysul Co., Los Angeles, Calif. Proprietary medicine. Serial No. 340,181; Jan. 30. Class 6.

American Medicinal Soda Company. (See de Courcy, Paul.)

American Tobacco Company, The, New York, N. Y. Tobaccos. Serial No. 344,964; Jan. 30. Class 17.

American Tobacco Company, The, New York, N. Y. Cigarettes, cigars, and tobacco. Serial No. 344,965; Jan. 30. Class 17.

Arden, Elizabeth, Inc., New York, N. Y. Preparation for application to the legs and arms to cover blemishes such as bruises, etc. Serial No. 341,353; Jan. 30. Class 6.

Arden, Elizabeth, Inc., New York, N. Y. Sunburn cream. Serial No. 341,354; Jan. 30. Class 6.

Bailey, Stanley B., doing business as B. Bailey and Bail-O-Products Co., San Francisco, Calif. Cleansing cream, face powder, skin bleach, etc. Serial No. 343,058; Jan. 30. Class 6.

Bail-O-Products Co. (See Bailey, Stanley.)

Ball Brothers Company, Muncie, Ind. Jar caps. Serial No. 340,212; Jan. 30. Class 50.

Bamberger, L., & Co., Newark, N. J. Wines. Serial No. 345,044; Jan. 30. Class 47.

Batterton Coffee Co. Inc., Birmingham, Ala. Coffee. Serial No. 331,722; Jan. 30. Class 46.

Bavaria- und St. Pauli-Brauerei, Hamburg, Germany. Malt beverage. Serial No. 344,423; Jan. 30. Class 48.

Bavaria- und St. Pauli-Brauerei, Hamburg, Germany. Malt beverage. Serial No. 344,426; Jan. 30. Class 48.

Bellman Brook Bleachery Co., Fairview, N. J. Cotton goods. Serial No. 343,145; Jan. 30. Class 42.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Serial No. 344,466; Jan. 30. Class 42.

Bond, W. G., Inc., Baltimore, Md. Rye whisky. Serial No. 344,560; Jan. 30. Class 49.

Bontelli Vintage Company. (See Sontag Chain Stores Co. Ltd.)

Borden's Cheese Company, Inc., Chicago, Ill. Cheese. Serial No. 341,785; Jan. 30. Class 46.

Bresduck, Inc., New York, N. Y. Razors, shears, scissors, knives and hair clippers. Serial No. 333,144; Jan. 30. Class 23.

Brown, Charles H., New York, N. Y. Shoes and boots. Serial No. 342,150; Jan. 30. Class 39.

Brown Shoe Company, Inc., St. Louis, Mo. Shoes. Serial No. 344,173; Jan. 30. Class 39.

Brunner, Edward C., Cleveland, Ohio. Lawn-mower blades (bed knife). Serial No. 340,151; Jan. 30. Class 23.

Bulova Watch Company, New York, N. Y. Watches and attached bracelets. Serial No. 343,633; Jan. 30. Class 27.

Burnand & Company, Inc., Los Angeles, Calif. Fresh deciduous and citrus fruits, fresh grapes, and fresh vegetables. Serial No. 341,711; Jan. 30. Class 46.

Bysul Co. (See Agnew, John M.)

Cada Company, Inc., New York, N. Y. Permanent-waving apparatus and accessories. Serial No. 343,850; Jan. 30. Class 44.

California Produce Distributors, Inc., Los Angeles, Calif. Fresh lettuce. Serial No. 343,850; Jan. 30. Class 46.

Callaway Mills, Lagrange, Ga. Piece goods and pile fabrics, untreated cloth, etc. Serial No. 341,192; Jan. 30. Class 42.

Canadian Sparkling Products Limited, Oakville, Ontario, Canada. Wines. Serial No. 343,852; Jan. 30. Class 47.

Capital Drug Company, Inc., Augusta, Maine. Medicinal preparations, cigarettes for treatment of asthmatic paroxysms, etc. Serial No. 344,042; Jan. 30. Class 6.

Capital Drug Company, Inc., Augusta, Maine. Digitalis compound tablets. Serial No. 344,043; Jan. 30. Class 6.

Capital Drug Company, Inc., Augusta, Maine. Antacid tablets. Serial No. 344,044; Jan. 30. Class 6.

Carpano, Giuseppe B., Turin, Italy. Wines and vermouth. Serial No. 340,639; Jan. 30. Class 47.

Catalina Brewing Co. (See Margulis, W.)

Chamberlain Laboratories, Des Moines, Iowa. Lotion for hands and skin. Serial No. 342,727; Jan. 30. Class 6.

Clover Farm Stores Corporation, Cleveland, Ohio. Publication published weekly. Serial No. 344,635; Jan. 30. Class 38.

Colorado Milling & Elevator Co., The, Denver, Colo. Flour. Serial No. 338,136; Jan. 30. Class 46.

Continental Pharmacal Co. (See Rubenstein, Dina.)

Craddock-Terry Company, doing business as Geo. D. Witt Shoe Company, Southern Department Craddock-Terry Company, Lynchburg, Va. Leather shoes. Serial No. 328,162; Jan. 30. Class 39.

Daily Running Horse, Inc., New York, N. Y. Daily publication. Serial No. 343,495; Jan. 30. Class 38.

De Courcy, Paul, doing business as American Medicinal Soda Company, Cincinnati, Ohio. Medicines and pharmaceutical preparations. Serial No. 343,438; Jan. 30. Class 6.

Delco Laboratories. (See Trachtenberg, Leon.)

Dominion Wine Growers Limited, Oakville, Ontario, Canada. Wines. Serial No. 343,858; Jan. 30. Class 47.

Ellena Bros., Cucamonga and Etiwanda, Calif. Wines. Serial No. 343,918; Jan. 30. Class 47.

Empire City Brewing Co. Inc., Brooklyn, N. Y. Beer, ale, and porter. Serial No. 343,498; Jan. 30. Class 48.

Ephrata Shoe Company, Inc., Ephrata, Pa. Shoes. Serial No. 341,278; Jan. 30. Class 39.

Feist, H. & C. J., Ltd., London, England, and Villa Nova de Gaya, Portugal. Wine. Serial No. 344,398; Jan. 30. Class 47.

Felder, J. George, doing business as Melrose Laboratory, New York, N. Y. Mouth wash. Serial No. 344,263; Jan. 30. Class 6.

Fillauer, George W., doing business as Red Star Drug and Surgical Co., Chattanooga, Tenn. Medicinal preparation for treatment of colds and coughs. Serial No. 344,432; Jan. 30. Class 6.

Finsbury Distillery Co. Limited, The, London, England. Wine. Serial No. 343,728; Jan. 30. Class 47.

Garfinkel & Ritter, New York, N. Y. Textile piece goods made of yarn. Serial No. 343,278; Jan. 30. Class 42.

Gilbert, A. C., Company, The, New Haven, Conn. Carpenters' squares and rules. Serial No. 344,642; Jan. 30. Class 26.

Glenmore Distilleries Co., Owensboro, Ky. Whisky. Serial No. 344,643; Jan. 30. Class 49.

Golf Ball, Inc., Chicago, Ill. Golf balls. Serial Nos. 345,052–3; Jan. 30. Class 22.

Grigor, William, & Son, Inverness, Scotland. Whisky. Serial No. 344,591; Jan. 30. Class 49.

Gutierrez, A., Inc., Passaic, N. J. Cigars. Serial Nos. 344,846–7; Jan. 30. Class 17.

Hamblin-Metcalfe, Limited, Kitchener, Ontario, Canada. Chocolate and chocolate confectionery. Serial No. 314,115; Jan. 30. Class 46.

Harris, John H., Cleveland, Ohio. Whiskies. Serial No. 344,645; Jan. 30. Class 49.

Hoelscher, Wm., & Co., San Francisco, Calif. Wines. Serial No. 345,056; Jan. 30. Class 47.

Hofheimer's, Inc., Norfolk, Richmond, and Portsmouth, Va. Shoes. Serial No. 342,480; Jan. 30. Class 39.

Horner Brothers Woolen Mills, Eaton Rapids, Mich. Woven and knitted fabrics. Serial No. 341,364; Jan. 30. Class 42.

Horner Brothers Woolen Mills, Eaton Rapids, Mich. Woven and knitted fabrics. Serial No. 341,366; Jan. 30. Class 42.

Horner Brothers Woolen Mills, Eaton Rapids, Mich. Textile fabrics. Serial No. 341,367; Jan. 30. Class 42.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. Serial No. 344,278; Jan. 30. Class 6.

House of Johnson. (See Johnson, Jay C.)

Independent Cordage Co., Inc., New York, N. Y. Cordage, rope, cord, and twine. Serial No. 343,613; Jan. 30. Class 7.

Jaburg Brothers, Inc., New York, N. Y. Bags, barrels, barrel covers, baskets, etc. Serial No. 344,095; Jan. 30. Class 2.

Johnson, Jay C., doing business as House of Johnson, Baltimore, Md. Preparation in the form of tablets for the treatment of constipation. Serial No. 344,402; Jan. 30. Class 6.

Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Adhesive paper strips. Serial No. 344,787; Jan. 30. Class 37.

Kimble Glass Company, Vineland, N. J. Laboratory glassware. Serial No. 343,455; Jan. 30. Class 26.

Kimble Glass Company, Vineland, N. J. Fluid-ejecting device. Serial No. 343,457; Jan. 30. Class 44.

Kleinert, I. B., Rubber Company, New York, N. Y. Hot water bottles. Serial No. 328,100; Jan. 30. Class 44.

Kleinert, I. B., Rubber Company, New York, N. Y. Rubber waterproofed sheeting. Serial No. 344,937; Jan. 30. Class 50.

Kurman, Nathan A., doing business as Rex Sales Co., New York, N. Y. Staple machines and paper stapling and fastening machines. Serial No. 343,511; Jan. 30. Class 23.

Lancaster Inc., Los Angeles, Calif. Vitamin D concentrate to be added to various food products. Serial No. 343,779; Jan. 30. Class 46.

Langley, Robert W., doing business as Methanthin Laboratories, Los Angeles, Calif. Vasodilator and diuretic. Serial No. 344,479; Jan. 30. Class 6.

Liberty Accessories Corporation, Mount Vernon, N. Y. Piston expanders. Serial No. 343,780; Jan. 30. Class 23.

Lowd, George W., doing business as G. W. Lowd, Somerville, Mass. Medicinal compound. Serial No. 338,498; Jan. 30. Class 6.

M & R Dietetic Laborstories, Inc., Columbus, Ohio. Milk in powdered form. Serial No. 342,915; Jan. 30. Class 46.

Margulis, W., doing business as Catalina Brewing Co., Los Angeles, Calif. Beer. Serial No. 339,829; Jan. 30. Class 48.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

McCoy, William F., doing business as Bill McCoy and/or the Real McCoy, Palm Beach, Fla. Whisky. Serial No. 344,540; Jan. 30. Class 49.

Melhado, Edmund, & Co., Inc., New York, N. Y. Rum and other spirituous liquors. Serial Nos. 344,076–8; Jan. 30. Class 49.

Melrose Laboratory. (See Felder, J. George.)

Mennen Company, The, Newark, N. J. Razor blades. Serial No. 341,463; Jan. 30. Class 23.

Methanthin Laboratories. (See Langley, Robert W.)

Miami Valley Brewing Co., The, Dayton, Ohio. Malt beverages. Serial No. 344,597; Jan. 30. Class 48.

Milbank, Leaman & Co., New York, N. Y. Woven textile fabric. Serial No. 344,101; Jan. 30. Class 42.

Milford Textile Corporation, Milford, N. H. Rough heavy piece goods. Serial No. 355,644; Jan. 30. Class 42.

Miller, Harry H., doing business as Tri State Candy Company, Ashland, Ky. Candy. Serial No. 344,727; Jan. 30. Class 46.

Moe Schwartz Co., New York, N. Y. Dresses. Serial No. 344,948; Jan. 30. Class 39.

Morrell, John, & Co., Ottumwa, Iowa. Lard. Serial No. 344,032; Jan. 30. Class 46.

Neiman-Marcus Company, Dallas, Tex. Coats and suits. Serial No. 344,982; Jan. 30. Class 39.

Nesbitt Fruit Products, Inc., Los Angeles, Calif. Nonalcoholic, maltless, syrups. Serial Nos. 343,221–2; Jan. 30. Class 45.

Offenbacher, William L., Miami, Fla. Glassine, cellophane, and similar bags for food. Serial No. 340,925; Jan. 30. Class 2.

"Old Bleach" Linen Co. Ltd., The, New York, N. Y. Linen piece goods, tablecloths, napkins, etc. Serial No. 342,663; Jan. 30. Class 42.

Old Collins Company, Inc., Distillers, New York, N. Y. Gin. Serial No. 344,669; Jan. 30. Class 49.

Old Colony Envelope Company, Westfield, Mass. Envelopes, sheets, and cards. Serial No. 344,670; Jan. 30. Class 37.

Outdoor Publishing Company, New York, N. Y. Section of a periodical. Serial No. 343,784; Jan. 30. Class 38.

Peck & Peck, New York, N. Y. Hosiery, gloves, sweaters, etc. Serial No. 343,877; Jan. 30. Class 39.

Periodical House Inc., New York, N. Y. Magazine published monthly and at other intervals. Serial No. 344,354; Jan. 30. Class 38.

Pierre-Bonard, Inc., New York, N. Y. Wines. Serial No. 344,675; Jan. 30. Class 47.

Pure Milk Dairy Products, Inc., Elgin, Ill. Cheese. Serial No. 342,448; Jan. 30. Class 46.

Pure Milk Dairy Products, Inc., Elgin, Ill. Cheese. Serial No. 342,450; Jan. 30. Class 46.

Rasmussen, Geo., Co., Chicago, Ill. Crackers, canned fruit, canned vegetables, etc. Serial No. 343,409; Jan. 30. Class 46.

Ray Fuel Company, Detroit, Mich. Processed or prepared coal. Serial No. 344,806; Jan. 30. Class 1.

Reader, James, doing business as Reader's Pharmacy, Chicago, Ill. Sedatives. Serial No. 344,107; Jan. 30. Class 6.

Red Star Drug and Surgical Co. (See Fillaner, George W.)

Red & White Corporation, doing business as The Red & White Stores, Buffalo, N. Y. Periodical. Serial No. 344,807; Jan. 30. Class 38.

Reefer's No-Moth, Inc., New York, N. Y. Sprayer head. Serial No. 332,080; Jan. 30. Class 23.

Rex Sales Co. (See Kurman, Nathan A.)

Ritz Brewing Company, San Diego, Calif. Beer. Serial No. 339,790; Jan. 30. Class 48.

Rockland & Rockport Lime Corporation, Rockland, Maine. Agricultural lime. Serial No. 342,668; Jan. 30. Class 10.

Royal Baking Powder Company, New York, N. Y. Baking powder. Serial No. 333,083; Jan. 30. Class 46.

Rubenstein, Dina, doing business as Continental Pharmacal Co., New York, N. Y. Callous and corn compound. Serial No. 344,251; Jan. 30. Class 6.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Adhesive medicated shields or pads for corns. Serial Nos. 344,112–14; Jan. 30. Class 6.

Seaboard Produce Distributors, Inc., Onley, Va. Fresh vegetables and fruits. Serial No. 338,797; Jan. 30. Class 46.

Sheppard, Edward A., Toronto, Ontario, Canada. Chocolate food beverages. Serial No. 331,754; Jan. 30. Class 46.

Sichel, H., & Sons Limited, London, England. Wines. Serial No. 343,139; Jan. 30. Class 47.

Silk-O-Lite Mfg. Corp., New York, N. Y. Lamp shades. Serial No. 341,935; Jan. 30. Class 34.

Sil's Food Co., Oakland, Calif. Canned fruits, canned vegetables, canned fish, and canned milk. Serial No. 344,811; Jan. 30. Class 46.

Skelly Oil Company, Tulsa, Okla. Insecticide. Serial No. 344,871; Jan. 30. Class 6.

"Solo" Zündwaren-und Chemische Fabriken Act.-Ges., Vienna, Austria. Fly paper. Serial No. 343,190; Jan. 30. Class 50.

Sontag Chain Stores Co. Ltd., doing business as Bontelli Vintage Company, Los Angeles, Calif. Wines. Serial No. 345,077; Jan. 30. Class 47.

Spalding, A. G., & Bros., New York, N. Y. Golf clubs. Serial No. 345,040; Jan. 30. Class 22.

Stamford Park Wine Co. Limited, The, Stamford, Ontario, Canada. Grape juice. Serial No. 343,884; Jan. 30. Class 45.

Standard Brands Incorporated, New York, N. Y. Dough improver. Serial No. 331,446; Jan. 30. Class 46.

Stix, Baer and Fuller Company, St. Louis, Mo. Wearing apparel. Serial No. 344,298; Jan. 30. Class 39.

Strathmore Paper Company, West Springfield, Mass. Printing and writing paper. Serial No. 344,687; Jan. 30. Class 37.

Sun-State Fruit Co., Los Angeles, Calif. Dried fruit. Serial No. 332,605; Jan. 30. Class 46.

Trachtenberg, Leon, doing business as Delco Laboratories, Brooklyn, N. Y. Paints and varnishes. Serial No. 339,168; Jan. 30. Class 16.

Tri State Candy Company. (See Miller, Harry H.)

Tuberkulose-Heilstoff-Werk G. m. b. H., Leipzig, Germany. Chemical or bacteriological products, medicines, salves, etc. Serial No. 341,778; Jan. 30. Class 6.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 340,138; Jan. 30. Class 6.

Vanadium Alloys Steel Company, Latrobe, Pa. Tools and dies. Serial No. 344,071; Jan. 30. Class 23.

Vernon Brewing Company, Los Angeles, Calif. Beer. Serial No. 339,412; Jan. 30. Class 48.

Western Bottle Manufacturing Company, doing business as The Western Company, Chicago, Ill. Toothbrushes. Serial No. 344,998; Jan. 30. Class 29.

Williams Bakery, Scranton, Pa. Cake. Serial No. 332,432; Jan. 30. Class 46.

Williams Bakery, Scranton, Pa. Bread. Serial Nos. 333,446–7; Jan. 30. Class 46.

Wilson-Jones Company, Chicago, Ill. Loose-leaf binders. Serial No. 344,824; Jan. 30. Class 37.

Windsor-Lloyd Products, Inc., Wilmington, Del. Fan belts. Serial No. 344,616; Jan. 30. Class 35.

Witt, Geo. D., Shoe Company, Southern Department Craddock-Terry Company. (See Craddock-Terry Company.)

Women's Wear Company, New York, N. Y. Title of a newspaper page. Serial No. 344,826; Jan. 30. Class 38.

Wrigley, Wm., jr., Company, Chicago, Ill. Chewing gum. Serial Nos. 344,370–1; Jan. 30. Class 46.

Zacharakopoulos, Demos N., New York, N. Y. Milk. Serial No. 340,074; Jan. 30. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

A. D. W. Food Products Co., San Francisco, Calif. Flour. 309,832; Jan. 30. Class 46.

Allaire, Woodward & Co., Peoria, Ill. Insect powder. 96,623; renewed Apr. 28. 1934.

Allied Mills, Inc., Chicago, Ill. Soya-bean flour. 309,788; Jan. 30; Serial No. 341,888; published Nov. 14, 1933. Class 46.

American Federation of Labor, Washington, D. C., a voluntary association not incorporated. Books, pamphlets, and circulars. 96,925; renewed May 12, 1934.

American Ice Company, Washington, D. C., and Baltimore, Md., assignor to Southern Corporation, Washington, D. C. Beer. 309,779; Jan. 30; Serial No. 341,643; published Nov. 21, 1933. Class 48.

American Pad & Textile Company, The, Greenfield, Ohio. Cushions and camping and sleeping equipment. 309,727; Jan. 30; Serial No. 340,823; published Nov. 21, 1933. Class 32.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Spring wire. 309,762–3; Jan. 30; Serial Nos. 342,254–5; published Nov. 21, 1933. Class 14.

Apple Growers Association, Hood River, Oreg. Canned fruits. 309,738; Jan. 30; Serial No. 334,951; published Nov. 21, 1933. Class 46.

Armsby, J. K., Co., The, Chicago, Ill., and San Francisco, Calif., assignor to California Packing Corporation, San Francisco, Calif. Canned and dried fruits and vegetables. 95,974; renewed Mar. 31, 1934.

Armsby, J. K., Co., The, Chicago, Ill., and San Francisco, Calif., assignor to California Packing Corporation, San Francisco, Calif. Canned vegetables. 96,385; renewed Apr. 21, 1934.

Armsby, J. K., Co., The, assignor to California Packing Corporation, San Francisco, Calif. Salmon. 96,082; renewed Apr. 7, 1934.

Associated Fur Farms, Inc., New Holstein, Wis. Raw furs. 309,790; Jan. 30; Serial No. 341,909; published Nov. 14, 1933. Class 1.

Atlas Portland Cement Company, The, Northampton, Pa., and New York, N. Y., assignor, by mesne assignments, to Universal Atlas Cement Company, Chicago, Ill. Monthly almanac or magazine of business. 96,222; renewed Apr. 14, 1934.

Atlas Tack Corporation, Fairhaven, Mass. Carpet tacks. 309,743; June 30; Serial No. 329,883; published Nov. 21, 1933. Class 13.

Ault & Wiborg Carbon & Ribbon Co. Inc., Cincinnati, Ohio. Mucilage. 309,789; Jan. 30; Serial No. 341,890; published Nov. 14, 1933. Class 5.

Baker & Company, Inc., Newark, N. J. Dental filling gold. 309,766; Jan. 30; Serial No. 342,333; published Nov. 21, 1933. Class 44.

Baker Extract Co., Springfield, Mass. Concentrated coffee. 309,741; Jan. 30; Serial No. 332,908; published Nov. 14, 1933. Class 46.

Baltimore Brewing Company, The, Baltimore, Md. Malt beverages. 309,782; Jan. 30; Serial No. 341,826; published Nov. 21, 1933. Class 48.

Barrow, Hepburn & Gale Limited, London, England. Handles for suitcases, music cases, etc. 309,724; Jan. 30; Serial No. 339,095; published Nov. 14, 1933. Class 3.

Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic lenses, binoculars, and objective lenses. 309,753; Jan. 30; Serial No. 342,024; published Nov. 21, 1933. Class 26.

Behr-Manning Corporation. (See Manning Sand Paper Company, assignor.)

Bemis Bro. Bag Company, St. Louis, Mo. Fabric bags. 309,826; Jan. 30. Class 2.

Bendiner and Schlesinger, Inc. (See Schlesinger, Maurice F., assignor.)

Best Foods, Inc., The, New York, N. Y., and Chicago, Ill. Oleomargarine. 309,722; Jan. 30; Serial No. 339,383; published Nov. 14, 1933. Class 46.

Bosch, Robert, Aktiengesellschaft, Stuttgart, Germany. Brakes and equipment for brakes and windshield wipers. 309,821; Jan. 30. Class 19.

Bötzow, Julius, Brauerei-Aktiengesellschaft, Berlin, Germany. Malt beverages. 309,748; Jan. 30; Serial No. 337,910; published Nov. 21, 1933. Class 48.

Brightwater Paper Company, Dover, Del., and Adams, Mass. Writing paper. 309,814; Jan. 30. Class 37.

Burger, Harris, doing business as Burger Brothers, New York, N. Y. Cigars. 309,801; Jan. 30; Serial No. 341,115; published Nov. 21, 1933. Class 17.

Bushkill Products Company, The. (See Kutz, Charles H.)

Cabell Company, The, assignor to The C. M. Pitt & Sons Co., Baltimore, Md. Preparation for making cake. 96,397; renewed Apr. 21, 1934.

California Packing Corporation. (See Armsby, J. K., Co., The, assignor.)

California Packing Corporation. (See Code Portwood Canning Co., assignor.)

California Packing Corporation. (See Prince, H. G., & Company, assignor.)

California Prune & Apricot Growers Association, San Jose, Calif. Dried fruits. 309,834; Jan. 30. Class 46.

Campbell Cereal Company, Northfield, Minn. Wheat cereal. 309,811; Jan. 30; Serial No. 341,567; published Nov. 14, 1933. Class 46.

Canavan-Leggett Brewery, Inc., Niagara Falls, N. Y. Beer and ale. 309,784; Jan. 30; Serial No. 341,859; published Nov. 21, 1933. Class 48.

Carson Pirie Scott, and Company, Chicago, Ill. Neckties. 309,827; Jan. 30. Class 39.

Chappell, Allen & Co., Limited, Redfield Bristol, England. Corsets. 95,743; renewed Mar. 10, 1934.

Chero-Cola Co., assignor to Nehi, Inc., Columbus, Ga. Non-intoxicating carbonated beverage and syrup for making same. 94,884; renewed Jan. 13, 1934.

Cherokee Spinning Co., Knoxville, Tenn. Piece goods. 309,806; Jan. 30; Serial No. 341,396; published Nov. 7, 1933. Class 42.

Chicago Varnish Company, Chicago, Ill., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Varnishes, paints, enamels, etc. 95,401; renewed Feb. 17, 1934.

Clicquot Club Company, Providence, R. I., and Millis, Mass., to Clicquot Club Company, Millis, Mass. Ginger ale, sarsaparilla, birch beer, etc. 97,324; renewed June 2, 1934.

Clifton Manufacturing Company, Clifton and Converse, S. C., to Clifton Manufacturing Company, Clifton, S. C. Cotton shirtings, drills, and sheetings. 42,564; renewed May 10, 1934.

Code Portwood Canning Co., Oakland, assignor, by mesne assignments, to California Packing Corporation, San Francisco, Calif. Canned fruits and vegetables. 95,602; renewed Mar. 3, 1934.

Colgate-Palmolive-Peet Company, Chicago, Ill. Soap dispensers. 309,783; Jan. 30; Serial No. 341,787; published Nov. 21, 1933. Class 13.

Curtin, A. F., Valve Co., Medford, Mass. Water-closet fittings. 309,840; Jan. 30. Class 13.

Dean Rubber Manufacturing Company, North Kansas City, Mo. Prophylactic rubber articles. 309,737; Jan. 30; Serial No. 336,500; published Nov. 21, 1933. Class 44.

Deutsch féle Kóbányai Málatagyár r. t. at Budapest, Budapest, Hungary. Malt. 309,746; Jan. 30; Serial No. 338,404; published Nov. 21, 1933. Class 46.

De Witt, E. C., & Co. Inc. (See Pincuie Medicine Co., assignor.)

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 95,071; renewed Feb. 3, 1934.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 95,073; renewed Feb. 3, 1934.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 95,076–7; renewed Feb. 3, 1934.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 95,608; renewed Mar. 3, 1934.

Donahue, Joseph F., doing business as Stay Fast Corset Company, Providence, R. I., assignor, by mesne assignments, to Stay Fast Company. Corsets, brassières, girdles, and step-ins. 309,831; Jan. 30. Class 39.

Draper Egg Producers Association, Inc., Draper, Utah. Eggs. 309,749; Jan. 30; Serial No. 338,314; published Nov. 21, 1933. Class 46.

Druggist Service Bureau, Inc., Milwaukee, Wis. Adhesive tape, gauze, and absorbent cotton. 309,822; Jan. 30. Class 44.

Du Pont, E. I., de Nemours and Company. (See Chicago Varnish Company, assignor.)

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Firearms and ammunition. 309,804; Jan. 30; Serial No. 341,359; published Nov. 21, 1933. Class 9.

Dunbar-Gibson, Incorporated, New York, N. Y. Rowing machines and spring exercising devices. 309,723; Jan. 30; Serial No. 339,390; published Nov. 21, 1933. Class 22.

Dunbar-Gibson, Incorporated, New York, N. Y. Grass shears, shears, hedge shears, clippers, scissors, knives, and parts thereof. 309,750; Jan. 30; Serial No. 339,393; published Nov. 21, 1933. Class 23.

Dynamit-Actien-Gesellschaft vorm. Alfred Nobel & Co., Hamburg, Hamburg, Germany. Explosives. 309,755; Jan. 30; Serial No. 342,108; published Nov. 21, 1933. Class 9.

Eagle Signal Corporation, Moline, Ill. Electric traffic signal master controllers, local controllers, and parts of said controllers. 309,778; Jan. 30; Serial No. 341,648; published Nov. 14, 1933. Class 21.

Easy Washing Machine Corporation, Syracuse, N. Y. Washing machines. 309,759; Jan. 30; Serial No. 342,178; published Nov. 21, 1933. Class 24.

Ehrman, Samuel, & Co. Inc., New York, N. Y. Piece laces. 309,817; Jan. 30. Class 42.

Eichelberger, Jos., & Company, Eustic, Fla. Fresh citrus fruits. 309,760; Jan. 30; Serial No. 342,219; published Nov. 21, 1933. Class 46.

Eichelberger, Jos., & Company, Eustis, Fla. Fresh citrus fruits. 309,765; Jan. 30; Serial No. 342,264; published Nov. 14, 1933. Class 46.

Eisenberg & Weinstein, Inc., New York, N. Y. Cotton piece goods and goods in the piece. 309,807; Jan. 30; Serial No. 341,360; published Nov. 7, 1933. Class 42.

Empresa Exportadora Lusitania Lda., Lisbon, Portugal. Canned fish, meat, and fruit. 309,793; Jan. 30; Serial No. 341,953; published Nov. 21, 1933. Class 46.

Enzinger Union Corporation, New York, N. Y. Filtermass washers, milk can washing machines, motor driven pumps, etc. 309,841; Jan. 30. Class 23.

Freeby, Geo. E., Lehighton, Pa. Canned fruits, vegetables, olives, etc. 309,773; Jan. 30; Serial No. 341,428; published Nov. 14, 1933. Class 46.

Freydberg Brothers, Incorporated, New York, N. Y. Ribbon. 309,770; Jan. 30; Serial No. 342,611; published Nov. 21, 1933. Class 7.

Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Wines. 309,791; Jan. 30; Serial No. 341,906; published Nov. 21, 1933. Class 47.

Furriers' Supply Corporation, The, New York, N. Y. Machinery needles. 309,776; Jan. 30; Serial No. 341,522; published Nov. 21, 1933. Class 23.

Gamble Stores, Incorporated, Minneapolis, Minn. Metallic cartridges. 309,771; Jan. 30; Serial No. 342,535; published Nov. 21, 1933. Class 9.

General Mills, Inc., Minneapolis, Minn. Flour. 309,785; Jan. 30; Serial No. 341,852; published Nov. 14, 1933. Class 46.

Girard Peannt Co. (See Gusinsky, Esther.)

Glemby Company, Inc., The, New York, N. Y. Facial tissues. 309,818; Jan. 30. Class 37.

Good Humor Corporation of America, Brooklyn, N. Y. Chocolate, chocolate coatings, etc. 309,740; Jan. 30; Serial No. 330,162; published Nov. 21, 1933. Class 46.

Goodman Suss Clothes Corporation, New York, N. Y. Suits, overcoats, topcoats, etc. 309,823; Jan. 30. Class 39.

Gorham Manufacturing Company, Providence, R. I. Bronze cinerary urns. 309,752; Jan. 30; Serial No. 342,129; published Nov. 21, 1933. Class 2.

Graton & Knight Company, Worcester, Mass. Leather machinery belting. 309,739; Jan. 30; Serial No. 335,163; published Nov. 21, 1933. Class 35.

Great Atlantic and Pacific Tea Company, The, to The Great Atlantic & Pacific Tea Company, New York, N. Y. Eggs. 97,137; renewed May 19, 1934.

Gusinsky, Esther, doing business as Girard Peanut Co., Shenandoah, Pa. Peanuts. 309,833; Jan. 30. Class 46.

Hardwick & Magee Company, Philadelphia, Pa. Textile carpets. 309,824; Jan. 30. Class 42.

Hyman, S. E., Company, The, Fremont, Ohio. Tailored seat covers. 309,777; Jan. 30; Serial No. 341,512; published Nov. 21, 1933. Class 32.

Interstate Department Stores, Inc., New York, N. Y. Cotton batting. 309,764; Jan. 30; Serial No. 342,272; published Nov. 14, 1933. Class 1.

Jaburg Brothers, Inc., New York, N. Y. Ice boxes, refrigerators, coolers for drinking water, etc. 309,781; Jan. 30; Serial No. 341,656; published Nov. 21, 1933. Class 31.

Jarvis, Anna, Philadelphia, Pa. Cartons, boxes, and receptacle bags. 97,246; renewed May 26, 1934.
Jarvis, Anna, Philadelphia, Pa. Prints and publications. 97,424; renewed June 2, 1934.
Kanotex Refining Company, The, Arkansas City, Kans. Gasoline. 309,732; Jan. 30; Serial No. 339,631; published Nov. 14, 1933. Class 15.
Kiesner, Frank C., doing business as Quirt Mfg. Co., Minneapolis, Minn. Pads for corns, callouses, bunions. 309,728; Jan. 30; Serial No. 340,227; published Nov. 28, 1933. Class 44.
Kirby, Beard & Co. Limited, Birmingham, England. Hairpins. 96,228; renewed Apr. 14, 1934.
Kroydon Company, The, Maplewood, N. J. Golf clubs. 309,796–7; Jan. 30; Serial Nos. 340,879–80; published Nov. 21, 1933. Class 22.
Kutz, Charles H., doing business as The Bushkill Products Company, Easton, Pa. Malt beverages. 309,772; Jan. 30; Serial No. 341,458; published Nov. 21, 1933. Class 48.
Liberty Oil Burner Company, Incorporated, Hartford, Conn. Oil burners and parts thereof. 309,757; Jan. 30; Serial No. 342,159; published Nov. 21, 1933. Class 34.
Linehan & Molo, Dubuque, Iowa. Coal. 309,800; Jan. 30; Serial No. 341,129; published Nov. 14, 1933. Class 1.
Mahoney, Edward L., doing business as Edward L. Mahoney and Company, Baltimore, Md. Whiskey. 309,718; Jan. 30; Serial No. 342,316; published Nov. 21, 1933. Class 49.
Mahoney, Edward L., doing business as Edward L. Mahoney and Company, Baltimore, Md. Whiskey. 309,719; Jan. 30; Serial No. 342,228; published Nov. 21, 1933. Class 49.
Mahoney, Edward L., doing business as Edward L. Mahoney and Company, Baltimore, Md. Whiskey. 309,720–1; Jan. 30; Serial Nos. 342,230–31; published Nov. 21, 1933. Class 49.
Mammoth Springs Canning Company, Sussex, Wis. Canned vegetables. 309,769; Jan. 30; Serial No. 342,446; published Nov. 21, 1933. Class 46.
Manatee Fruit Company, Tampa, Fla. Fresh vegetables. 309,787; Jan. 30; Serial No. 341,870; published Nov. 21, 1933. Class 46.
Mandel Brothers, assignor to Mandel Brothers, Inc., Chicago, Ill. Perfumes, toilet waters, face powders, etc. 96,697; renewed Apr. 28, 1934.
Manning Sand Paper Company, Watervliet, assignor to Behr-Manning Corporation, Troy, N. Y. Abrasive paper and cloth. 97,431; renewed June 2, 1934.
Manning Sand Paper Company, Watervliet, assignor to Behr-Manning Corporation, Troy, N. Y. Abrasive paper and cloth. 97,433; renewed June 2, 1934.
Marx, Louis, & Company, New York, N. Y. Game. 309,768; Jan. 30; Serial No. 342,483; published Nov. 21, 1933. Class 22.
Mastercraft Pillow Corporation, by change of name to Mastercraft Specialties, Inc., New York, N. Y. Corsets and brassières. 309,828; Jan. 30. Class 39.
Matzoon, Y. T., Company, Chicago, Ill. Medicinal food. 94,150; renewed Nov. 11, 1933.
Mehdi Dilmaghani & Co., Inc., New York, N. Y. Textile rugs, carpets, and tapestries. 309,744; Jan. 30; Serial No. 298,830; published Jan. 26, 1932. Class 42.
Miceli, Rosario, New York, N. Y. Fruit and vegetable juice extracting machine. 309,809; Jan. 30; Serial No. 341,402; published Nov. 21, 1933. Class 23.
National Remedy Company, by change of name to F. E. Rollins Company, Boston, Mass. Medicinal preparation used externally for certain named diseases. 94,481; renewed Dec. 9, 1933.
Nehi, Inc. (See Chero-Cola Co.)
Neumann, R., & Company, Hoboken, N. J. Leather. 309,780; Jan. 30; Serial No. 341,733; published Nov. 14, 1933. Class 1.
New Philadelphia Brewery, Inc., New Philadelphia, Ohio. Malt beverages. 309,838; Jan. 30. Class 48.
Nolu Oilless Bearing Company, Philadelphia, Pa. Machinery bearings. 309,731; Jan. 30; Serial No. 340,048; published Nov. 21, 1933. Class 23.
Northern Cocoanut Products Corporation, New York, N. Y., and Chicago, Ill. Oleomargarine. 309,734; Jan. 30; Serial No. 339,404; published Nov. 14, 1933. Class 46.
Ohio Oil Company, The. (See Whitney, G. F., Company, assignor.)
Pacific Guano & Fertilizer Co., The, Honolulu, Territory of Hawaii. Fertilizers. 96,329; renewed Apr. 14, 1934.
Perfect Manufacturing Co., The, doing business as So-Lo Works, Cincinnati, Ohio. Plastic composition. 309,802; Jan. 30; Serial No. 341,255; published Nov. 14, 1933. Class 1.
Perfection Stove Company, Cleveland, Ohio. Wicks for oil burners. 309,812; Jan. 30. Class 34.
Petroleum Heat and Power Company, New York, N. Y. Oil burning boilers. 309,758; Jan. 30; Serial No. 342,198; published Nov. 21, 1933. Class 34.
Petroleum Heat and Power Company, New York, N. Y. Oil burning boilers. 309,761; Jan. 30; Serial No. 342,199; published Nov. 21, 1933. Class 34.
Philadelphia Brewing Company, Philadelphia, Pa. Beer. 309,792; Jan. 30; Serial No. 341,982; published Nov. 21, 1933. Class 48.
Pineule Medicine Co., assignor, by mesne assignments, to E. C. De Witt & Co. Inc., Chicago, Ill. Liquid preparations for internal use. 42,732; renewed May 31, 1934.
Pisco Punch Limited, San Francisco, Calif. Alcoholic punch. 309,839; Jan. 30. Class 49.
Pitt, C. M., & Sons Co., The. (See Cabell Company, The, assignor.)
Pittsburgh Steel Co., Pittsburgh and Monessen, to Pittsburgh Steel Co., Pittsburgh, Pa. Metal fencing. 97,170; renewed May 19, 1934.
Prince, H. G., Company, Fruitvale, assignor to California Packing Corporation, San Francisco, Calif. Canned fruits and vegetables. 96,827; renewed May 5, 1934.
Public Service Tire & Rubber Co. Inc., Brooklyn, N. Y. Batteries. 309,726; Jan. 30; Serial No. 340,623; published Nov. 14, 1933. Class 21.
Pure Water Service Corporation of Westchester County, Hastings upon Hudson, N. Y. Water softeners. 309,730; Jan. 30; Serial No. 339,946; published Nov. 21, 1933. Class 13.
Quirt Mfg. Co. (See Kiesner, Frank C.)
Rainbow Rubber Company, East Butler, Pa. Metallic or liquid solder for soldering metals, etc. 309,819; Jan. 30. Class 5.
Rainbow Rubber Company, East Butler, Pa. Adhesive rubber cement and china cement. 309,820; Jan. 30. Class 5.
Real Fruit Foods, New York, N. Y. Powdered pudding desserts. 309,747; Jan. 30; Serial No. 338,665; published Nov. 14, 1933. Class 46.
Reed, Willard H., doing business as W. H. Reed & Co., Atlanta, Ga. Prophylactic rubber articles. 309,767; Jan. 30; Serial No. 342,319; published Nov. 21, 1933. Class 44.
Reid, Edward S., jr., doing business as The Utility Card Company, New York, N. Y. Playing cards. 309,794; Jan. 30; Serial No. 342,014; published Nov. 21, 1933. Class 22.
Republic Rubber Company, The, Youngstown, Ohio. Power transmission belts. 309,775; Jan. 30; Serial No. 341,495; published Nov. 21, 1933. Class 35.
Rhinelander Paper Company, Rhinelander, Wis. Wrapping paper. 309,835; Jan. 30. Class 37.
Rival Packing Company, Chicago, Ill. Dog foods. 309,803; Jan. 30; Serial No. 341,224; published Nov. 21, 1933. Class 46.
Rock Island Bridge & Iron Works, Rock Island, Ill. Stereoscopes and films. 309,813; Jan. 30. Class 26.
Rollins, F. E., Company. (See National Remedy Company.)
Ruberoid Co., The. (See Standard Paint Company.)
Sanitary Company of America, Pottstown, to Sanitary Company of America, Linfield, Pa. Plumbing supplies. 95,480; renewed Feb. 17, 1934.
Schlesinger, Maurice F., assignor to Bendiner and Schlesinger, Inc., New York, N. Y. Oil for treatment of certain diseases. 97,277; renewed May 26, 1934.
Schratter Corporation, The, New York, N. Y. Cheese. 309,756; Jan. 30; Serial No. 342,167; published Nov. 14, 1933. Class 46.
Sclafani Brothers, Brooklyn, N. Y. Tomato paste. 309,725; Jan. 30; Serial No. 339,124; published Nov. 14, 1933. Class 46.
Scovill Manufacturing Company, Waterbury, Conn. Copper-nickel alloys and sheet metal and wire made therefrom. 309,733; Jan. 30; Serial No. 339,660; published Nov. 21, 1933. Class 14.
Sears, Roebuck and Co., Chicago, Ill. Tape lines and kitchen scales, dress patterns, and combination squares. 309,736; Jan. 30; Serial No. 336,303; published Nov. 21, 1933. Class 26.
Sears, Roebuck and Co., Chicago, Ill. Clotheslines. 309,805; Jan. 30; Serial No. 341,346; published Nov. 21, 1933. Class 7.
Simmons Hardware Company, St. Louis, Mo. Hammers, braces, bits, etc. 309,795; Jan. 30; Serial No. 341,990; published Nov. 21, 1933. Class 23.
Slattery, John J., jr., Washington, D. C. Games. 309,774; Jan. 30; Serial No. 341,500; published Nov. 21, 1933. Class 22.
So-Lo Works. (See Perfect Manufacturing Co., The.)
Southern Corporation. (See American Ice Company, assignor.)
Sovereign Pocahontas Company, Bluefield, W. Va. Coal. 309,798; Jan. 30; Serial No. 341,100; published Nov. 14, 1933. Class 1.
Standard Paint Company, by change of name to The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Prepared roofings. 97,288; renewed May 26, 1934.
Stay Fast Corset Company. (See Donahue, Joseph F., assignor.)
Stifel, J. L., & Sons, assignor to J. L. Stifel & Sons, Inc., Wheeling, W. Va. Cotton piece goods. 97,085; renewed May 19, 1934.
Stroh Products Company, The, Detroit, Mich. Malt beverages. 309,786; Jan. 30; Serial No. 341,875; published Nov. 21, 1933. Class 48.
Tampa Food Products, Inc., Tampa, Fla. Canned grapefruit juice and canned grapefruit. 309,836; Jan. 30. Class 46.
Trade Laboratories, Inc., The, Newark, N. J. Shaving cream. 309,815–16; Jan. 30. Class 4.
Travers Bros., Watsonville, Calif. Fresh deciduous fruit. 309,745; Jan. 30; Serial No. 312,933; published Nov. 21, 1933. Class 46.
Twink Products Corporation, Milwaukee, Wis. Instant icing. 309,808; Jan. 30; Serial No. 341,410; published Nov. 14, 1933. Class 46.

Union Cutlery Co., Inc., Olean, N. Y. Knives. 309,837; Jan. 30. Class 23.
United Shoe Machinery Company, assignor to United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Machines for certain named purposes. 42,286; renewed Mar. 22, 1934.
U. S. Manufacturing Corporation, Decatur, Ill. Fly swatters and implements for killing and disabling insects and flies. 309,810; Jan. 30; Serial No. 341,614; published Nov. 21, 1933. Class 50.
United States Rubber Company, New York, N. Y. Rubber bathing caps. 309,829; Jan. 30. Class 39.
Universal Atlas Cement Company. (See Atlas Portland Cement Company, The, assignor.)
Utility Card Company, The. (See Reid, Edward S., jr.)
Utility Manufacturing Company, Incorporated, Baltimore, Md. Kitchen utensils. 309,735; Jan. 30; Serial No. 339,616; published Sept. 12, 1933. Class 23.
Val-Vac Denture, Inc., New York, N. Y. Dentures, artificial teeth, dental cement, etc. 309,751; Jan. 30; Serial No. 336,846; published Nov. 28, 1933. Class 44.
Viskin Corporation, The, Chicago, Ill. Sausage and hamburger casings. 309,754; Jan. 30; Serial No. 342,050; published Nov. 21, 1933. Class 46.
Vita Food Products, Incorporated, New York, N. Y. Ham. 309,742; Jan. 30; Serial No. 827,534; published Nov. 21, 1933. Class 46.
Weiss, Richard, Berlin, Germany. Preparation for the treatment of diabetic conditions. 309,830; Jan. 30. Class 6.
Westergaard, Berg-Johnsen Co., Brooklyn, N. Y. Bread. 309,799; Jan. 30; Serial No. 341,617; published Nov. 14, 1933. Class 46.
Whitmore, Raymond D., New York, N. Y. Silk, rayon, etc., fabrics. 309,729; Jan. 30; Serial No. 340,298; published Nov. 14, 1933. Class 42.
Whitney, G. F., Company, Boston, Mass., assignor, by mesne assignments, to The Ohio Oil Company, Findlay, Ohio. Lubricating oils and greases. 97,301; renewed May 26, 1934.
Worumbo Manufacturing Company, Bath, Maine, and New York, N. Y., to Worumbo Manufacturing Company, Lisbon Falls, Maine. Wool, cotton-wool, and cotton pile fabrics. 97,195; renewed May 19, 1934.
Youngs Rubber Corporation, Inc., New York, N. Y. Flannel body protectors. 309,825; Jan. 30. Class 44.

LIST OF REGISTRANTS OF LABELS

Ama-Gon Laboratories. (See Northrup, Blanche M.)
American Gas Association, New York, N. Y. Approval Seal. For Gas Appliances. 43,171; Jan. 30.
Applebaum, Rebecca, doing business as Majestic Wine Company, New York, N. Y. Majestic. For Sherry. 43,172; Jan. 30.
Ben-Burk, Inc., Boston, Mass. Creme de Cacao. For Liqueur. 43,173; Jan. 30.
Coops Company, The, Stevens Point, Wis. Deerwood. For Peas. 43,174; Jan. 30.
Dayton Spice Mills Company, The, Dayton, Ohio. Jersey Coffee. For Coffee. 43,175; Jan. 30.
Epstein, Morris, doing business as M. Epstein & Co., Baltimore, Md. Varsity. For Hats. 43,176; Jan. 30.
Fitch, Wm., Chicago, Ill. St. Matthew's Bible Compound. For Herb Compound. 43,177; Jan. 30.
Forsyth, Peter, & Co., Glasgow, Scotland. Misty Isle. For Scotch Whisky. 43,178; Jan. 30.
Fox Head Waukesha Corp., Milwaukee, Wis. Fox Head Old Waukesha Ale. For Ale. 43,179; Jan. 30.
Fredonia Products Co. Inc., Fredonia, N. Y. Old Colony. For Wine. 43,180; Jan. 30.
Gem Products Sales Co., Camden, N. J. Gems. For Washing and Bluing Compound. 43,181; Jan. 30.
Grant, J H Robert, doing business as Robert Grant & Co., New York, N. Y. Liqueur Scotch Whisky 12 Years Old. For Scotch Whisky. 43,182; Jan. 30.
Grant, J H Robert, doing business as Robert Grant & Co., New York, N. Y. Scotch Whisky 5 Years Old. For Scotch Whisky. 43,183; Jan. 30.
Halferty Corporation, Seattle, Wash. Halferty's Clams in Shell with Clam Nectar. For Clams. 43,184; Jan. 30.
Humboldt Malt & Brewing Company, San Francisco, Calif. Brown Derby. For Beer. 43,185; Jan. 30.
Kansas City Macaroni & Importing Company, The, Kansas City, Mo. Bo-Noodles. For Noodles. 43,186; Jan. 30.
King Candy Company, Fort Worth, Tex. Fru-Nut. For Chocolates. 43,187; Jan. 30.
Kleenex Company, Chicago, Ill. Kleenex Disposable Tissues. For Tissues for Facial Cleansing, Removing Cosmetics, Wiping Spectacles, Drying Razor Blades, and as Handkerchiefs. 43,188; Jan. 30.
L. A. Pacific Macaroni Co., Los Angeles, Calif. Sun-Vite. For Macaroni. 43,189; Jan. 30.
Majestic Wine Company. (See Applebaum, Rebecca.)
Milwaukee Macaroni Company, Milwaukee, Wis. Bambino. For Macaroni Elbows. 43,190; Jan. 30.
Northrup, Blanche M., doing business as Ama-Gon Laboratories, Los Angeles, Calif. Ama-Gon. For Inhalant. 43,191; Jan. 30.
Ritts, Herbert I., doing business as Satisfaction Exchange, Los Angeles, Calif. Magicmitt. For Cleaning Gloves or Mittens. 43,192; Jan. 30.
Romeo Import Co., Inc., New York, N. Y. Romeo California Sauternes Wine. For Wine. 43,193; Jan. 30.
Satisfaction Exchange. (See Ritts, Herbert I.)
Siesinger, Stephen, New York, N. Y. Tarzan. For Candy. 43,194; Jan. 30.
Standard Brands Incorporated, New York, N. Y. Royal Quick Setting Pineapple Flavor Gelatin Dessert. For Gelatin Dessert. 43,195; Jan. 30.
Stuyvesant Distilling Corp., Long Island City, N. Y. Peter Stuyvesant. For Dry Gin. 43,196; Jan. 30.
Union Bag & Paper Corporation, New York, N. Y. Coffee. For Coffee. 43,197; Jan. 30.
Van Atta, Harry L., Long Beach, Calif. Moth Proof Coat Hanger. For Coat Hangers Scientifically Treated to Kill Moths. 43,198; Jan. 30.
Weppner Weil Company, The, Cleveland, Ohio. Weco. For Coffee. 43,199; Jan. 30.
Weppner Weil Company, The, Cleveland, Ohio. De Casino. For Coffee. 43,200; Jan. 30.
Wesco Foods Company, Cincinnati, Ohio. Her Grace Brand Fruit Cake. For Fruit Cake. 43,201; Jan. 30.
White & Wyckoff Mfg. Co., Holyoke, Mass. True Test Honest Value Tablet. For Tablets. 43,202; Jan. 30.
White & Wyckoff Mfg. Co., Holyoke, Mass. The Duo-Typewriter Tablet. For Typewriter Tablets. 43,203; Jan. 30.

LIST OF REGISTRANTS OF PRINTS

Coca-Cola Company, Atlanta, Ga. You Must Feel a Smile to Act One. For a Beverage. 14,542; Jan. 30.
Coca-Cola Company, Atlanta, Ga. Away with a Tired Thirsty Face. For a Beverage. 14,543; Jan. 30.
Coca-Cola Company, Atlanta, Ga. Refreshed for the Camera. For a Beverage. 14,544; Jan. 30.
General Mills, Inc., Minneapolis, Minn. Free Madam! This Exquisite New Lifetime Chromium Tidbit Tray. For Cake Flour. 14,545; Jan. 30.
General Mills, Inc., Minneapolis, Minn. Now! a Quicker and Simpler Way to Make Pigs in Blankets. For Biscuit Flour. 14,546; Jan. 30.
Globe Parlor Furniture Co., High Point, N. C. Globe Easy-Rest. For Chairs. 14,547; Jan. 30.
Kahn's, E., Sons Company, The, Cincinnati, Ohio. The Old Hickory Wood Makes Them Taste So Good. For Hams and Bacon. 14,548; Jan. 30.
Rees, Dr. H. C., San Antonio, Tex. Supr-Flex. For Rimless Glasses. 14,549; Jan. 30.
Stevens, E. W., Portland, Oreg. The Home Plate. For Hamburger Sandwiches. 14,550; Jan. 30.
Western Dairy Products Co., Seattle, Wash. Eat Sunfreze Ice Cream for Vital Energy. For Ice Cream. 14,551; Jan. 30.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Linehan & Molo. 309,800; Jan. 30; Serial No. 341,129; published Nov. 14, 1933.
Coal. Sovereign Pocohontas Company. 309,798; Jan. 30; Serial No. 341,100; published Nov. 14, 1933.
Cotton batting. Interstate Department Stores, Inc. 309,764; Jan. 30; Serial No. 342,272; published Nov. 14, 1933.
Furs, Raw. Associated Fur Farms, Inc. 309,790; Jan. 30; Serial No. 341,909; published Nov. 14, 1933.
Leather. R. Neumann & Company. 309,780; Jan. 30; Serial No. 341,733; published Nov. 14, 1933.
Plastic composition. Perfect Manufacturing Co. 309,802; Jan. 30; Serial No. 341,255; published Nov. 14, 1933.

CLASS 2

Bags, Fabric. Bemis Bro. Bag Company. 309,826; Jan. 30.
Cartons, boxes, and receptacle bags. A. Jarvis. 97,246; renewed May 26, 1934.
Urns, Bronze cinerary. Gorham Manufacturing Company. 309,752; Jan. 30; Serial No. 342,129; published Nov. 21, 1933.

CLASS 3

Handles for suitcases, music cases, etc. Barrow, Hepburn & Gale Limited. 309,724; Jan. 30; Serial No. 339,095; published Nov. 14, 1933.

CLASS 4

Abrasive paper and cloth. Manning Sand Paper Company. 97,431; renewed June 2, 1934.
Abrasive paper and cloth. Manning Sand Paper Company. 97,433; renewed June 2, 1934.
Shaving cream. Trade Laboratories, Inc. 309,815–16; Jan. 30.

CLASS 5

Cement and china cement. Adhesive rubber. Rainbow Rubber Company. 309,820; Jan. 30.
Mucilage. Ault & Wiborg Carbon & Ribbon Co. Inc. 309,789; Jan. 30; Serial No. 341,890; published Nov. 14, 1933.
Solder for soldering metals, etc., Metallic or liquid. Rainbow Rubber Company. 309,819; Jan. 30.

CLASS 6

Insect powder. Allaire, Woodward & Co. 96,623; renewed Apr. 28, 1934.
Medicinal preparation used externally for certain named diseases. National Remedy Company. 94,481; renewed Dec. 9, 1933.
Oil for use in treatment of certain diseases. M. F. Schlesinger. 97,277; renewed May 26, 1934.
Perfumes, toilet waters, face powders, etc. Mandel Brothers. 96,697; renewed Apr. 28, 1934.
Preparation for the treatment of diabetic conditions. R. Weiss. 309,830; Jan. 30.
Preparations for internal use, Liquid. Pineule Medicine Co. 42,732; renewed May 31, 1934.

CLASS 7

Clotheslines. Sears, Roebuck and Co. 309,805; Jan. 30; Serial No. 341,340; published Nov. 21, 1933.
Ribbons. Freydberg Brothers, Incorporated. 309,770; Jan. 30; Serial No. 342,611; published Nov. 21, 1933.

CLASS 9

Cartridges, Metallic. Gamble Stores, Incorporated. 309,771; Jan. 30; Serial No. 342,535; published Nov. 21, 1933.
Explosives. Dynamit-Actien-Gesellschaft vorm. Alfred Nobel & Co., Hamburg. 309,755; Jan. 30; Serial No. 342,108; published Nov. 21, 1933.
Firearms and ammunition. E. I. du Pont de Nemours and Company. 309,804; Jan. 30; Serial No. 341,359; published Nov. 21, 1933.

CLASS 10

Fertilizers. Pacific Guano & Fertilizer Co. 96,329; renewed Apr. 14, 1934.

CLASS 12

Roofings, Prepared. Standard Paint Company. 97,288; renewed May 26, 1934.

CLASS 13

Dispensers, Soap. Colgate-Palmolive-Peet Company. 309,783; Jan. 30; Serial No. 341,787; published Nov. 21, 1933.
Fittings, Water closet. A. F. Curtain Valve Co. 309,840; Jan. 30.
Metal fencing. Pittsburgh Steel Co. 97,170; renewed May 19, 1934.
Plumbing supplies. Sanitary Company of America. 95,480; renewed Feb. 17, 1934.
Softeners, Water. Pure Water Service Corporation of Westchester County. 309,730; Jan. 30; Serial No. 339,946; published Nov. 21, 1933.
Tacks, Carpet. Atlas Tack Corporation. 309,743; Jan. 30, Serial No. 329,883; published Nov. 21, 1933.

CLASS 14

Copper-nickel alloys and sheet, metal and wire made therefrom. Scovill Manufacturing Company. 309,733; Jan. 30; Serial No. 339,660; published Nov. 21, 1933.
Wire, Spring. American Steel and Wire Company of New Jersey. 309,762–3; Jan. 30; Serial Nos. 342,224–5; published Nov. 21, 1933.

CLASS 15

Gasoline. Kanotex Refining Company. 309,732; Jan. 30; Serial No. 339,631; published Nov. 14, 1933.
Oils and greases, Lubricating. G. F. Whitney Company. 97,301; renewed May 26, 1934.

CLASS 16

Varnishes, paints, enamels, etc. Chicago Varnish Company. 95,401; renewed Feb. 17, 1934.

CLASS 17

Cigars. H. Burger. 309,801; Jan. 30; Serial No. 341,115; published Nov. 21, 1933.

CLASS 19

Brakes and equipment for brakes and windshield wipers. Robert Bosch Aktiengesellschaft. 309,821; Jan. 30.

CLASS 21

Batteries. Public Service Tire & Rubber Co. Inc. 309,726; Jan. 30; Serial No. 340,123; published Nov. 14, 1933.
Electric traffic signal master controllers, local controllers, and parts of said controllers. Eagle Signal Corporation. 309,778; Jan. 30; Serial No. 341,648; published Nov. 14, 1933.

CLASS 22

Cards, Playing. E. S. Reid, jr. 309,704; Jan. 30; Serial No. 342,014; published Nov. 21, 1933.
Game. Louis Marx & Company. 309,768; Jan. 30; Serial No. 342,483; published Nov. 21, 1933.
Games. J. J. Slattery, jr. 309,774; Jan. 30; Serial No. 341,500; published Nov. 21, 1933.
Golf clubs. Kroydon Company. 309,796–7; Jan. 30; Serial Nos. 340,879–80; published Nov. 21 1933.
Rowing machines and spring exercising devices. Dunbar-Gibson, Incorporated. 309,723; Jan. 30; Serial No. 339,390; published Nov. 21, 1933.

CLASS 23

Bearings, Machinery. Nolu Oilless Bearing Company. 309,731; Jan. 30; Serial No. 340,048; published Nov. 21, 1933.
Fruit and vegetable juice extracting machine. R. Micell. 309,809; Jan. 30; Serial No. 341,402; published Nov. 21, 1933.
Hammers, braces, bits, etc. Simmons Hardware Company. 309,795; Jan. 30; Serial No. 341,990; published Nov. 21, 1933.
Knives. Union Cutlery Co. 309,837; Jan. 30.
Machines for certain named purposes. United Shoe Machinery Company. 42,286; renewed Mar. 22, 1934.
Needles, Machinery. Furriers' Supply Corporation. 309,776; Jan. 30; Serial No. 341,522; published Nov. 21, 1933.
Saws. Henry Disston & Sons, Incorporated. 95,071; renewed Feb. 3, 1934.
Saws. Henry Disston & Sons, Incorporated. 95,073; renewed Feb. 3, 1934.
Saws. Henry Disston & Sons, Incorporated. 95,076–7; renewed Feb. 3, 1934.
Saws. Henry Disston & Sons, Incorporated. 95,608; renewed Mar. 3, 1934.
Shears, clippers, scissors, etc. Dunbar-Gibson, Incorporated. 309,750; Jan. 30; Serial No. 339,393; published Nov. 21, 1933.
Utensils, Kitchen. Utility Manufacturing Company. 309,785; Jan. 30; Serial No. 339,616; published Sept. 19, 1933.
Washers, milk can washing machines, motor driven pumps, etc., Filtermass. Enzinger Union Corporation. 309,841; Jan. 30.

CLASS 24

Washing machines. Easy Washing Machine Corporation. 309,759; Jan. 30; Serial No. 342,178 published Nov. 1, 1933.

CLASS 26

Ophthalmic lenses, binoculars, and objective lenses. Bausch & Lomb Optical Company. 309,753; Jan. 30; Serial No. 342,024; published Nov. 21, 1933.
Stereoscopes and films. Rock Island Bridge & Iron Works. 309,813; Jan. 30.
Tape lines, kitchen scales, dress patterns, and combination squares. Sears, Roebuck and Co. 309,736; Jan. 30; Serial No. 336,303; published Nov. 21, 1933.

CLASS 31

Ice boxes, refrigerators, coolers, etc. Jaburg Brothers, Inc. 309,781; Jan. 30; Serial No. 341,656; published Nov. 21, 1933.

CLASS 32

Cushions, and camping and sleeping equipment, Seat and chair. American Pad & Textile Company. 309,727; Jan. 30; Serial No. 340,823; published Nov. 21, 1933.
Seat covers, Tailored. S. E. Hyman Company. 309,777; Jan. 30. Serial No. 341,512; published Nov. 21, 1933.

CLASS 34

Boilers, Oil burning. Petroleum Heat and Power Company. 309,758; Jan. 30; Serial No. 342,198; published Nov. 21, 1933.
Boilers, Oil burning. Petroleum Heat and Power Company. 309,761; Jan. 30; Serial No. 342,199; published Nov. 21, 1933.
Burners and parts thereof, Oil. Liberty Oil Burner Company. 309,757; Jan. 30; Serial No. 342,159; published Nov. 21, 1933.

Wicks for oil burners. Perfection Stove Company. 309,812; Jan. 30.

CLASS 35

Belting, Leather machinery. Graton & Knight Company. 309,739; Jan. 30; Serial No. 335,163; published Nov. 21, 1933.
Belts, Power transmission. Republic Rubber Company. 309,775; Jan. 30; Serial No. 341,495; published Nov. 21, 1933.

CLASS 37

Paper, Writing. Brightwater Paper Company. 309,814; Jan. 30.
Paper, Wrapping. Rhinelander Paper Company. 309,835; Jan. 30.
Tissues, Facial. Glemby Company. 309,818; Jan. 30.

CLASS 38

Almanac or magazine of business. Atlas Portland Cement Company. 96,222; renewed Apr. 14, 1934.
Books, pamphlets, and circulars. American Federation of Labor. 96,925; renewed May 12, 1934.
Prints and publications. A. Jarvis. 97,424; renewed June —, 1934.

CLASS 39

Caps, Rubber bathing. United States Rubber Company. 309,829; Jan. 30.
Corsets. Chappell, Allen & Co. 95,743; renewed Mar. 10, 1934.
Corsets and brassières. Mastercraft Pillow Corporation. 309,828; Jan. 30.
Corsets, brassières, girdles, and step-ins. J. F. Donahue. 309,831; Jan. 30.
Neckties. Carson Pirie Scott and Company. 309,827; Jan. 30.
Suits, overcoats, topcoats, etc. Goodman Suss Clothes Corporation. 309,823; Jan. 30.

CLASS 40

Hairpins. Kirby, Beard & Co. Limited. 96,228; renewed Apr. 14, 1934.

CLASS 42

Carpets, Textile. Hardwick & Magee Company. 309,824; Jan. 30.
Cotton piece goods. J. L. Stifel & Sons. 97,085; renewed May 19, 1934.
Cotton piece goods and goods in the piece. Eisenberg & Weinstein, Inc. 309,807; Jan. 30; Serial No. 341,360; published Nov. 7, 1933.
Laces, Piece. Samuel Ehrman & Co. Inc. 309,817; Jan. 30.
Piece goods. Cherokee Spinning Co. 309,806; Jan. 30; Serial No. 341,396; published Nov. 7, 1933.
Rugs, carpets, and tapestries, Textile. Mehdi Dilmaghani & Co. 309,744; Jan. 30; Serial No. 298,830; published Jan. 26, 1932.
Shirtings, drills, and sheetings, Cotton. Clifton Manufacturing Company. 42,564; renewed May 10, 1934.
Silk, rayon, etc., fabrics. R. D. Whitmore. 309,729; Jan. 30; Serial No. 340,298; published Nov. 14, 1933.
Wool, cotton-wool, and cotton pile fabrics. Worumbo Manufacturing Company. 97,195; renewed May 19, 1934.

CLASS 44

Adhesive tape, gauze, and absorbent cotton. Druggist Service Bureau, Inc. 309,822; Jan. 30.
Dental filling gold. Baker & Company. 309,766; Jan. 30; Serial No. 342,333; published Nov. 21, 1933.
Dentures, artificial teeth, dental cement, etc. Val-Vac Denture, Inc. 309,751; Jan. 30; Serial No. 336,846; published Nov. 28, 1933.
Flannel body protectors. Youngs Rubber Corporation, Inc. 309,825; Jan. 30.
Pads for corns, callouses, bunions. F. C. Kiesner. 309,728; Jan. 30; Serial No. 340,227; published Nov. 28, 1933.
Prophylactic rubber articles. Dean Rubber Manufacturing Company. 309,737; Jan. 30; Serial No. 336,500; published Nov. 21, 1933.
Prophylactic rubber articles. W. H. Reed. 309,767; Jan. 30; Serial No. 342,319; published Nov. 21, 1933.

CLASS 45

Beverage and syrup for making same, Nonintoxicating. Chero-Cola Co. 94,884; renewed Jan. 13, 1934.
Ginger ale, sarsaparilla, birch beer, etc. Clicquot Club Company. 97,324; renewed June 2, 1934.

CLASS 46

Bread. Westergaard, Berg-Johnsen Co. 309,799; Jan. 30; Serial No. 341,617; published Nov. 14, 1933.
Canned fish, meat, and fruit. Empreza Exportadora Lusitania Lda. 309,793; Jan. 30; Serial No. 341,953; published Nov. 21, 1933.
Canned fruits. Apple Growers Association. 309,738; Jan. 30; Serial No. 334,951; published Nov. 21, 1933.
Canned fruits and vegetables. Code Portwood Canning Co. 95,602; renewed Mar. 3, 1934.
Canned fruits and vegetables. H. G. Prince & Company. 96,827; renewed May 5, 1934.
Canned fruits and vegetables and dried fruits. J. K. Armsby Co. 95,974; renewed Mar. 31, 1934.
Canned fruits, vegetables, olives, etc. G. E. Freeby. 309,773; Jan. 30; Serial No. 341,428; published Nov. 14, 1933.
Canned grapefruit juice and canned grapefruit. Tampa Food Products, Inc. 309,836; Jan. 30.
Canned vegetables. J. K. Armsby Co. 96,385; renewed Apr. 21, 1934.
Canned vegetables. Mammoth Springs Canning Company. 309,769; Jan. 30; Serial No. 342,446; published Nov. 21, 1933.
Cereal, Wheat. Campbell Cereal Company. 309,811; Jan. 30; Serial No. 341,567; published Nov. 14, 1933.
Cheese. Schratter Corporation. 309,756; Jan. 30; Serial No. 342,167; published Nov. 14, 1933.
Chocolate, chocolate coatings, etc. Good Humor Corporation of America. 309,740; Jan. 30; Serial No. 330,162; published Nov. 21, 1933.
Coffee, Concentrated. Baker Extract Co. 309,741; Jan. 30; Serial No. 332,908; published Nov. 14, 1933.
Eggs. Draper Egg Producers Association, Inc. 309,749; Jan. 30; Serial No. 338,314; published Nov. 21, 1933.
Eggs. Great Atlantic and Pacific Tea Company. 97,137; renewed May 19, 1934.
Flour. A. D. W. Food Products Co. 309,832; Jan. 30.
Flour. General Mills, Inc. 309,785; Jan. 30; Serial No. 341,852; published Nov. 14, 1933.
Flour, Soya-bean. Allied Mills, Inc. 309,788; Jan. 30; Serial No. 341,888; published Nov. 14, 1933.
Food, Medicinal. Y. T. Matzoon Company. 94,190; renewed Nov. 11, 1933.
Foods, Dog. Rival Packing Company. 309,803; Jan. 30; Serial No. 341,224; published Nov. 21, 1933.
Fruit, Fresh deciduous. Travers Bros. 309,745; Jan. 30; Serial No. 312,933; published Nov. 21, 1933.
Fruits, Dried. California Prune & Apricot Growers Association. 309,834; Jan. 30.
Fruits, Fresh citrus. Jos. Eichelberger & Company. 309,760; Jan. 30; Serial No. 342,219; published Nov. 21, 1933.
Fruits, Fresh citrus. Jos. Eichelberger & Company. 309,765; Jan. 30; Serial No. 342,264; published Nov. 14, 1933.
Ham. Vita Food Products, Incorporated. 309,742; Jan. 30; Serial No. 327,534; published Nov. 21, 1933.
Icing, Instant. Twink Products Corporation. 309,808; Jan. 30; Serial No. 341,410; published Nov. 14, 1933.
Malt. Deutsch fèle Kőbányai Malátagyár r. t. at Budapest. 309,746; Jan. 30; Serial No. 338,404; published Nov. 21, 1933.
Oleomargarine. Best Foods, Inc. 339,722; Jan. 30; Serial No. 339,383; published Nov. 14, 1933.
Oleomargarine. Northern Cocoanut Products Corporation. 309,734; Jan. 30; Serial No. 339,404; published Nov. 14, 1933.
Peanuts. E. Guzinsky. 309,833; Jan. 30.
Preparation for making cake. Cabell Company. 96,397; renewed Apr. 21, 1934.
Pudding desserts, Powdered. Real Fruit Foods. 309,747; Jan. 30; Serial No. 338,665; published Nov. 14, 1933.
Salmon. J. K. Armsby Co. 96,082; renewed Apr. 7, 1934.
Sausage and hamburger casings. Visking Corporation. 309,754; Jan. 30; Serial No. 342,050; published Nov. 21, 1933.
Tomato paste. Sclafani Brothers. 309,725; Jan. 30; Serial No. 339,124; published Nov. 14, 1933.
Vegetables, Fresh. Manatee Fruit Company. 309,787; Jan. 30; Serial No. 341,870; published Nov. 21, 1933.

CLASS 47

Wines. Fruit Industries, Ltd. 309,791; Jan. 30; Serial No. 341,906; published Nov. 21, 1933.

CLASS 48

Beer. American Ice Company. 309,779; Jan. 30; Serial No. 341,643; published Nov. 21, 1933.
Beer. Philadelphia Brewing Company. 309,792; Jan. 30; Serial No. 341,982; published Nov. 21, 1933.
Beer and ale. Canavan-Leggett Brewery, Inc. 309,784; Jan. 30; Serial No. 341,859; published Nov. 21, 1933.
Malt beverages. Baltimore Brewing Company. 309,782; Jan. 30; Serial No. 341,826; published Nov. 21, 1933.
Malt beverages. Julius Bötzow Brauerei-Aktiengesellschaft; 309,748; Jan. 30; Serial No. 337,910; published Nov. 21, 1933.
Malt beverages. C. H. Kutz. 309,772; Jan. 30; Serial No. 341,458; published Nov. 21, 1933.
Malt beverages. New Philadelphia Brewery, Inc. 309,838; Jan. 30.
Malt beverages. Stroh Products Company. 309,786; Jan. 30; Serial No. 341,875; published Nov. 21, 1933.

CLASS 49

Alcoholic punch. Pisco Punch Limited. 309,839; Jan. 30.
Whisky. E. L. Mahoney. 309,718; Jan. 30; Serial No. 342,316; published Nov. 21, 1933.
Whisky. E. L. Mahoney. 309,719; Jan. 30; Serial No. 342,228; published Nov. 21, 1933.
Whisky. E. L. Mahoney. 309,720–1; Jan. 30; Serial Nos. 342,230–1; published Nov. 21, 1933.

CLASS 50

Fly swatters and implements for killing insects. U. S. Manufacturing Corporation. 309,810; Jan. 30; Serial No. 341,614; published Nov. 21, 1933.

LIST OF LABELS

Ama-Gon. For Inhalant. B. M. Northrup. 43,191; Jan. 30.

Approval Seal. For Gas Appliances. American Gas Association. 43,171; Jan. 30.

Bambino. For Macaroni Elbows. Milwaukee Macaroni Company. 43,190; Jan. 30.

Bo-Noodles. For Noodles. Kansas City Macaroni & Importing Company. 43,186; Jan. 30.

Brown Derby. For Beer. Humboldt Malt & Brewing Company. 43,185; Jan. 30.

Coffee. For Coffee. Union Bag & Paper Corporation. 43,197; Jan. 30.

Creme De Cacao. For Liqueur. Ben-Burk, Inc. 43,173; Jan. 30.

De Casino. For Coffee. Weppner Weil Company. 43,200; Jan. 30.

Deerwood. For Peas. Copps Company. 43,174; Jan. 30.

Fox Head Old Waukesha Ale. For Ale. Fox Head Waukesha Corp. 43,179; Jan. 30.

Fru-Nut. For Chocolates. King Candy Company. 43,187; Jan. 30.

Gems. For Washing and Bluing Compound. Gem Products Sales Co. 43,181; Jan. 30.

Halferty's Clams in Shell with Clam Nectar. For Clams. Halferty Corporation. 43,184; Jan. 30.

Her Grace Brand Fruit Cake. For Fruit Cake. Wesco Foods Company. 43,201; Jan. 30.

Jersey Coffee. For Coffee. Dayton Spice Mills Company. 43,175; Jan. 30.

Kleenex. Disposable Tissues. For Tissues for Facial Cleansing, Removing Cosmetics, Wiping Spectacles, Drying Razor Blades, and as Handkerchiefs. Kleenex Company. 43,188; Jan. 30.

Liqueur Scotch Whisky 12 Years Old. For Scotch Whisky. J H R. Grant. 43,182; Jan. 30.

Magicmitt. For Cleaning Gloves or Mittens. H. I. Ritts. 43,192; Jan. 30.

Majestic. For Sherry. R. Applebaum. 43,172; Jan. 30.

Misty Isle. For Scotch Whisky. Peter Forsythe & Co. 43,178; Jan. 30.

Moth Proof Coat Hanger. For Coat Hangers Scientifically Treated to Kill Moths. H. L. Van Atta. 43,198; Jan. 30.

Old Colony. For Wine. Fredonia Producta Co. Inc. 43,180; Jan. 30.

Peter Stuyvesant. For Dry Gin. Stuyvesant Distilling Corp. 43,196; Jan. 30.

Romeo California Sauternes Wine. For Wine. Romeo Import Co. 43,193; Jan. 30.

Royal Quick Setting Pineapple Flavor Gelatin Dessert. For Gelatin Dessert. Standard Brands Incorporated. 43,195; Jan. 30.

St Matthews' Bible Compound. For Herb Compound. Wm. Fitch. 43,177; Jan. 30.

Scotch Whisky 5 Years Old. For Scotch Whisky. J H R. Grant. 43,183; Jan. 30.

Sun-Vite. For Macaroni. L. A. Pacific Macaroni Co. 43,189; Jan. 30.

Tarzan. For Candy. S. Slesinger. 43,194; Jan. 30.

The Duo-Typewriter Tablet. For Typewriter Tablets. White & Wyckoff Mfg. Co. 43,203; Jan. 30.

True Test Honest Value Tablet. For Tablets. White & Wyckoff Mfg. Co. 43,202; Jan. 30.

Varsity. For Hats. M. Epstein. 43,176; Jan. 30.

Weco. For Coffee. Weppner Weil Company. 43,199; Jan. 30.

LIST OF PRINTS

Away with a Tired Thirsty Face. For a Beverage. Coca-Cola Company. 14,543; Jan. 30.

Eat Sunfreze Ice Cream for Vital Energy. For Ice Cream. Western Dairy Products Co. 14,551; Jan. 30.

Free Madam! This Exquisite New Lifetime Chromium Tidbit Tray. For Cake Flour. General Mills, Inc. 14,545; Jan. 30.

Globe Easy-Rest. For Chairs. Globe Parlor Furniture Co. 14,547; Jan. 30.

Now! A Quicker and Simpler Way to Make Pigs in Blankets. For Biscuit Flour. General Mills, Inc. 14,546; Jan. 30.

Refreshed for the Camera. For a Beverage. Coca-Cola Company. 14,544; Jan. 30.

Supr-Flex. For Rimless Glasses. Dr. H. C. Rees. 14,549; Jan. 30.

The Home Plate. For Hamburger Sandwiches. E. W. Stevens. 14,550; Jan. 30.

The Old Hickory Wood Makes Them Taste So Good. For Hams and Bacon. E. Kahn's Sons Company. 14,548; Jan. 30.

You Must Feel a Smile to Act One. For a Beverage. Coca-Cola Company. 14,542; Jan. 30.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abraham, Alfred, and R. A. M. Cheek, County of Kent, England. Bathing tent and the like. 1,945,360; Jan. 30.

Adair, Sidney T., and C. F. Cushing, assignors, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md. Purifying gases. 1,945,407; Jan. 30.

Adams, Edwin O., Shelby, Mont. Hose wrench. 1,945,406; Jan. 30.

Adlake Company, The. (See Larson, Carl H., assignor.)

Air Reduction Company. (See Dennis, Wolcott, assignor.)

Air-Way Electric Appliance Corporation. (See Riebel, Frederick, jr., assignor.)

Akers, Frank B., Fort Gay, W. Va. Churn. 1,945,212; Jan. 30.

Aktiebolaget Formator. (See Granstedt, Karl E., assignor.)

Aktiebolaget Spontan. (See Ljungström, Fredrik, assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Widmer, S., Keller, and Hürlimann, assignors.)

Albach, Frank, assignor to Fred Medart Manufacturing Co., St. Louis, Mo. Wardrobe or locker. 1,944,913; Jan. 30.

Alexander, Clyde. (See Suppiger, G. S., and Alexander.)

Allen, Harold D., assignor to The Gong Bell Manufacturing Company, East Hampton, Conn. Toy telephone. 1,945,473; Jan. 30.

Allen, Rae & Company. (See Featherstone, William H., assignor.)

Alling, Guy E., assignor to Athol Manufacturing Company, Athol, Mass. Pyroxylin sheet material. 1,945,250; Jan. 30.

Alozerij, Nicolaas J. G. (See Carswell, T. S., Stehlby, and Alozerij.)

Ambler Asbestos Shingle & Sheathing Company. (See Ledehoer, John W., assignor.)

American Brass Company, The. (See Morell, Pascal J., assignor.)

American Engineering Company. (See Drogue, James A., assignor.)

American Engineering Company. (See Preston, Herbert E., assignor.)

American Fabrics Company, The. (See Juestrich, Max U., assignor.)

American Fork & Hoe Company, The. (See Bergmann, William H., assignor.)

American Fork & Hoe Company, The. (See Noyes, Charles V., assignor.)

American Gyro Co. (See Shelton, Thomas M., assignor.)

American Instrument Company. (See Greer, David M., assignor.)

American Laundry Machinery Company, The. (See Hetzer, Russell A., assignor.)

American Lurgi Corporation. (See Sterner-Rainer, Roland, assignor.)

American Machine & Foundry Company. (See Lundin, Axel G., assignor.)

American Machine & Foundry Company. (See Schmitt, Frank R., assignor.)

American Machine & Foundry Company. (See Smith, Elberon D., assignor.)

American Manganese Steel Company. (See Murtaugh, Joseph P., assignor.)

American Manganese Steel Company. (See Ratkowski, Thomas A., assignor.)

American Morgan Company. (See Morgan, Edmund C.)

American Telephone and Telegraph Company. (See Bailey, Rand S., assignor.)

American Telephone and Telegraph Company. (See McCann, Thomas A., assignor.)

American Tobacco Company, The. (See Gibson, C. H., and Downs, assignors.)

Ames, Adelbert, jr., and G. H. Gliddon, assignors to trustees of Dartmouth College, Hanover, N. H. Clinical optical mensuration method and instrument. 1,944,871; Jan. 30.

Anderson, Alfred, Chicago, Ill. Carrier handle. 1,944,868; Jan. 30.

Anderson, August E., Montclair, N. J. Spark plug. 1,945,408; Jan. 30.

Anderson, August E., Montclair, N. J. Spark plug with detachable electrode. 1,945,409; Jan. 30.

Anderson, Russell G. (See Blazek, J. Y., and Anderson.)

Andrew & Suter Limited. (See Macfie, William L., assignor.)

Andrews, Champe S., North Chattanooga, Tenn., and A. J. Tanner, North Haven, Conn., assignors to Box Blank Corporation, New York, N. Y. Packaging and display container. 1,945,251; Jan. 30.

Andrews, Charles W., Chicago, Ill., and R. D. Rogers, Bayonne, N. J., assignors to C. P. T. Development Corporation, Chicago, Ill. Method of coking heavy petroleum residues or the like. 1,944,872; Jan. 30.

Antoni, Ugo, Viareggio, Italy. Demountable wheel. 1,945,410; Jan. 30.

Apple, Edward M., et al., executors. (See Apple, Vincent G.)

Apple, Herbert F., et al., executors. (See Apple, Vincent G., assignor.)

Apple, Vincent G., Dayton, Ohio, deceased; H. F. Apple, E. M. Apple, and G. Darroch, executors. Method of and apparatus for making commutators. 1,944,869; Jan. 30.

Apple, Vincent G., deceased, Dayton, Ohio; H. F. Apple, E. M. Apple, and G. Darroch, executors. Apparatus for making an electrical coil. 1,944,870; Jan. 30.

Arentzen, Einar M., assignor to Joy Manufacturing Company, Franklin, Pa. Gathering organization for loading machines. 1,945,340; Jan. 30.

Armstrong, William T., Gravesend, England. Automatic guide for webs. 1,945,411; Jan. 30.

Arsenault, Patrice A., Mexico, Maine. Extensible table. 1,945,213; Jan. 30.

Athol Manufacturing Company. (See Alling, Guy E., assignor.)

Atlantic Elevator Company. (See Borden, Joseph H., assignor.)

Atlantic Terra Cotta Company. (See Baldwin, Clement R., assignor.)

Atwood, Winfield A., Yeadon, Pa., assignor to General Electric Company. Electric switch. 1,945,389; Jan. 30.

Auflero, John M., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Heater. 1,945,252; Jan. 30.

Automatic Bread Baking Company. (See Raith, Jacob L., assignor.)

Automatic Sprinkler Company of America. (See Lowe, Ernest A., assignor.)

Automotive Engineering Corporation. (See Rayburn, Alden G., assignor.)

Avery, True M., Glens Falls, N. Y., and W. M. Seitzinger, Chicago, Ill., assignors to Union Bag and Paper Corporation, Hudson Falls, N. Y. Inking means for printing mechanism. 1,945,498; Jan. 30.

Babson Manufacturing Corporation. (See Stampen, Jacob J., assignor.)

Bacon, Raymond F., Bronxville, N. Y. Smelting sulphide ore. 1,944,873; Jan. 30.

Badgett, Fred L., assignor to Badgett Steam Lubricator Company, Chickasha, Okla. Pump control device. 1,945,105; Jan. 30.

Badgett Steam Lubricator Company. (See Badgett, Fred L., assignor.)

Bailey, Rand S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Telephone system. 1,944,961; Jan. 30.

Bakelite Building Products Co. Inc. (See Harshberger, Norman P., assignor.)

Baker Castor Oil Company, The. (See Colbeth, Ivor M., assignor.)

Baker, Eugene L., Taunton, Mass. Fuel regulator. 1,945,390; Jan. 30.

Baker, Guy A. (See Walther, G., and Baker, Guy A. and H.)

Baker, Harry. (See Walther, G., and Baker, Guy A. and H.)

Baker, Lewis T., Jacksonville, Fla. Barrel stave. 1,945,303; Jan. 30.

Baker Perkins, Limited. (See Pointon, John E., assignor.)

Baker, Roy C., Wollaston, Mass. Machine for folding and feeding book signatures. 1,945,253; Jan. 30.

Baldwin, Clement R., Rocky Hill, N. J., assignor to Atlantic Terra Cotta Company, New York, N. Y. Wall. 1,945,474; Jan. 30.

Ball, Russell C., Philadelphia, Pa. Motor speed reducer. 1,945,361; Jan. 30.

Barnes Drill Company. (See Johnson, Albert M., assignor.)

Barnes Drill Co. (See Johnson, A. M., and Fairbairn, assignors.)

Barrett Company, The. (See Miller, Stuart P., assignor.)

Bartenfeld, Wilford G., Lorain, Ohio. Making the joints between structural members water tight. 1,944,914; Jan. 30.

Bartenfeld, Wilford G., Lorain, Ohio. Channel construction for the tops of tanks of vessels. 1,944,915; Jan. 30.

Bassick Company, The. (See Moore, Raymond G., assignor.)

Bates Manufacturing Company, The. (See Bel Geddes, N., and Paxton.)

Bazeley, Arthur J., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,945,362; Jan. 30.

Beach, Frederick E., and A. H. Jenson, Chicago, Ill. Temperature indication and control. 1,945,017; Jan. 30.

Beagle, Victor E., Alexandria, Va. Combined service cock key and curb box cleanout. 1,945,304; Jan. 30.
Bearce, Edwin F. (See McVicker, H., and Bearce.)
Beardsley, Bruce, Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Conveyer transfer mechanism. 1,945,475; Jan. 30.
Beaver, Charles J., T. J. Fairfield, Bowdon, and F. Smith, Stretford, England. Controlling the tension in strips of flexible material while being drawn from coils or rolls. 1,944,916; Jan. 30.
Becker, Hans. (See Kranzlein, G., Vollmann, Boedeker, and Becker.)
Beckwith Manufacturing Company. (See Woodruff, Frank O., assignor.)
Behrend, Bruno, Berlin, Germany. Manufacture of edible fats. 1,944,962; Jan. 30.
Beiger, John W., assignor to The Carrom Company, Ludington, Mich. Table top structure. 1,945,130; Jan. 30.
Bel Geddes, Norman, and W. Paxton, New York, N. Y., assignors to The Bates Manufacturing Company, West Orange, N. J. Casing for a telephone index or like article. Des. 91,416; Jan. 30.
Bell, Edwin H., Chicago, Ill. Tie plate. 1,945,174; Jan. 30.
Bell Punch Company Limited. (See Fishburn, J. E., and Webb., assignors.)
Bell Telephone Laboratories, Incorporated. (See Knoop, William A., assignor.)
Bendix Aviation Corporation. (See Goodman, Willard B., assignor.)
Bendix Aviation Corporation. (See Hunt, Scott F., assignor.)
Bendix Stromberg Carburetor Company. (See Hunt, Scott F., assignor.)
Bendix Stromberg Carburetor Company. (See Mock, Frank C., assignor.)
Bendix Stromberg Carburetor Company. (See Mock, F. C., Gustafson, and Chandler, assignors.)
Benedek, Elek, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Pump. 1,945,391; Jan. 30.
Benge, Frank H., Bridgeport, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del. Mechanism for treating laminated bodies. 1,945,412; Jan. 30.
Benge, Frank H., Bridgeport, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del. Apparatus for producing segmental rims. 1,945,413; Jan. 30.
Benge, Frank H., Bridgeport, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del. Producing segmental rims. 1,945,414; Jan. 30.
Benge, Frank H., Norristown, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del. Gear and segmental rim for use therein. 1,945,415; Jan. 30.
Bennett Pumps Corporation. (See Weaver, Clyde E., assignor.)
Bergmann, William H., assignor to The American Fork & Hoe Company, Cleveland, Ohio. Shears. 1,944,917; Jan. 30.
Berthold, Hermann. (See Gassner, S., and Berthold.)
Bertsch, Johann A., and A. H. Krause, St. Louis, Mo., assignors, by mesne assignments, to Monsanto Chemical Company. Purification of succinic acid. 1,945,175; Jan. 30.
Bielaski, Frank, Detroit, Mich. Saw table gauge. 1,944,918; Jan. 30.
Binks Manufacturing Company. (See Bransen, Sven, assignor.)
Birchall, Charles F., Lancaster, Pa. Device for feathering arrows. 1,945,416; Jan. 30.
Bischof, Bernhard, Waldheim-Winterthur, Switzerland. Fuel injection pump for internal combustion engines. 1,944,919; Jan. 30.
Bishop, Calvin C. (See Farnham, J. P., and Bishop.)
Bittner, Charles C., Chicago, Ill. Aeroplane. 1,945,254; Jan. 30.
Black & Decker Manufacturing Company, The. (See Decker, Alonzo G., assignor.)
Black, Horace D., Uxbridge, England. Air brake for aircraft. 1,945,214; Jan. 30.
Blackadder, Thomas, St. Davids, assignor to Röhm & Haas Company, Philadelphia, Pa. Retanning of chrome leather. 1,945,461; Jan. 30.
Blackwell, Evaline, Los Angeles, Calif. Window shade repair means. 1,945,106; Jan. 30.
Blazek, John Y., Maple Heights, and R. G. Anderson, Cleveland, assignors to Lempco Products Inc., Bedford, Ohio. Parts moving means. 1,945,476; Jan. 30.
Bloomfield, Grover, L. C. Swallen, and F. M. Crawford, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Production of acetone from ethyl alcohol. 1,945,131; Jan. 30.
Blume, Wilhelm, Berlin-Tegel, Germany, assignor to the Firm Typograph G. m. b. H., Berlin, Germany. Matrix-setting and type-line-casting machine. 1,945,417; Jan. 30.
Blumenthal, Moses L., Milwaukee, Wis. Beer bottle. Des. 91,417; Jan. 30.
Boardman, Whitlock W., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Folding chair. 1,945,018; Jan. 30.
Bodine Electric Co. (See D'Almaine, H., and Thompson, assignors.)
Boedeker, Hermann. (See Kränzlein, G., Vollmann, Boedeker, and Becker.)
Boiler Room Improvement Co. (See McNeill, Frederick.)
Borden Company, The. (See Page, W., and McClatchie, assignors.)
Borden, Joseph H., assignor to Atlantic Elevator Company, Philadelphia, Pa. Elevator control system. 1,945,392; Jan. 30.
Bowers, Augustus. (See Doane, E. E., and Bowers.)
Box Blank Corporation. (See Andrews, C. S., and Tanner, assignors.)
Bozel-Malétra Société Industrielle de Produits Chimiques. See Demant, Jules E., assignor.)
Bradford, Jesse D., Edgewood, and W. S. McAleer, Bellevue, Pa., assignors to The Koppers Company of Delaware. Material sampling system. 1,944,963; Jan. 30.
Bramsen, Svend, assignor to Binks Manufacturing Company, Chicago, Ill. Pressure-cup for spray appliances. 1,944,920; Jan. 30.
Brandt, Paul G., Topeka, Kans. Heating apparatus. 1,945,418; Jan. 30.
Brantingson, Sigurd, Palisadea Park, N. J. Doorlatch. Des. 91,418; Jan. 30.
Brassert, H. A., & Company. (See Brassert, Herman A., assignor.)
Brassert, Herman A., assignor to H. A. Brassert & Company, Chicago, Ill. Reduction of ores. 1,944,874; Jan. 30.
Brassert, Herman A., assignor to H. A. Brassert & Company, Chicago, Ill. Reduction and smelting of ores. 1,945,341; Jan. 30.
Brassert, Herman A., assignor to H. A. Brassert & Company, Chicago, Ill. Apparatus for producing low carbon metals. 1,945,342; Jan. 30.
Brown Company. (See Richter, George A., assignor.)
Brown, Hugh S., Harvey, Ill. Tamping tool. 1,945,132; Jan. 30.
Brown, Hugh S., Harvey, Ill. Tamping tool. 1,945,133; Jan. 30.
Brown, James E., South Chicago, Ill. Embalmer's apparatus. 1,945,419; Jan. 30.
Brown, Paul B., Toledo, Ohio. Atomizer. Des. 91,419; Jan. 30.
Brown, Thomas I., assignor to W. J. Pearson, Los Angeles, Calif. Ribbon feed. 1,944,964; Jan. 30.
Brune, Rudolf. (See Hagenböcker, A., and Brune.)
Brunk, John H., Los Angeles, Calif. Elastic exercising device. 1,945,134; Jan. 30.
Bryce Limited. (See Sidney, Arthur A., assignor.)
Budd Wheel Company. (See Farr, Warren H., assignor.)
Buell, Albert E., assignor to Phillips Petroleum Company, Bart'esville, Okla. Revivification of spent clays. 1,945,215; Jan. 30.
Bullington, Frank A., Los Angeles, Calif., assignor to Bullington Motors, Kansas City, Mo. Sealing means for annular cylinder engines. 1,944,875; Jan. 30.
Bullington Motors. (See Bullington, Frank A., assignor.)
Burgess Battery Company. (See Zook, John S., assignor.)
Burnett, Richard W., Chicago, Ill. Housing for railway car hand brake mechanism. 1,945,363; Jan. 30.
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Car door operating device. 1,945,019; Jan. 30.
Byerlein, Arthur A., Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio. Press. 1,945,176; Jan. 30.
C. P. T. Development Corporation. (See Andrews, C. W., and Rogers, assignors.)
Cain, John R., Washington, D. C., assignor of one half to Frederic A. Eustis, Milton, Mass. Making ductile electrolytic iron. 1,945,107; Jan. 30.
Camagni, Jean M., Paterson, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Apparatus for and process of making lip sticks and the like. 1,945,255; Jan. 30.
Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)
Carl, Elizabeth P., Chicago, Ill. Window. 1,945,135; Jan. 30.
Carraway, Thomas W., Providence, R. I., and B. G. Littlepage, Shreveport, La., assignors to General Fire Extinguisher Company, Providence, R. I. Heat exchanger. 1,945,394; Jan. 30.
Carrom Company, The. (See Beiger, John W., assignor.)
Carswell, Thomas S., Kirkwood, E. T. Stehlby, and N. J. G. Alozerij, St. Louis, Mo., assignors, by mesne assignments, to The Monsanto Chemical Company. Continuous process for producing esters. 1,945,177; Jan. 30.
Carter, William C., Flint, Mich. Heating apparatus for internal combustion engines. 1,945,178; Jan. 30.
Carter, William C., Flint, Mich. Carburetor. 1,945,179; Jan. 30.
Carter, William C., Flint, Mich. Carburetor. 1,945,180; Jan. 30.
Carter, William C., Flint, Mich. Diaphragm pump. 1,945,181; Jan. 30.
Casablancas, Fernando, Sabadell, Spain. Pressure apparatus for the drawing mechanism of textile machinery. 1,944,965; Jan. 30.
Casablancas, Fernando, Sabadell, Spain. Pressure apparatus for the drawing mechanism of textile machinery. 1,944,966; Jan. 30.
Case, J. I., Company. (See MacGregor, W. F., and Geer, assignors.)
Case, J. I., Company. (See Walsh, J. A., and Krause, assignors.)
Caterpillar Tractor Co. (See Eberhard, Harmon S., assignor.)
Caterpillar Tractor Co. (See Walker, Gerald M., assignor.)

Caterpillar Tractor Co. (See Wickersham, Elmer E., assignor.)
Cement Wrapped Pipe Company. (See Kraner, Warren A., assignor.)
Central Republic Trust Company, et al., executors. (See Friendly, Herbert M.)
Chafee, Zechariah, Providence, R. I. Cabinet construction. 1,945,020; Jan. 30.
Chandler, Milton E. (See Mock, F. C., Gustafson, and Chandler.)
Chapman, Charles H., Scotia, N. Y., assignor to General Electric Company. Terminal. 1,945,393; Jan. 30.
Charles, George L., Bryan, Ohio. Heel guard. 1,945,420; Jan. 30.
Cheek, Raymond A. M. (See Abraham, A., and Cheek.)
Chemipulp Process, Inc. (See Smiley, Lloyd D., assignor.)
Chicago Pneumatic Tool Company. (See Collins, Anthony H., assignor.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chilicothe Paper Company, The. (See McVicker, H., and Bearce, assignors.)
Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Radio shield for engines. 1,945,021; Jan. 30.
Chorlton, Frank O. L., Bury, England. Vacuum sealing machine for bottles, cans, and the like. 1,944,967; Jan. 30.
Christensen, Niels A., Cleveland, Ohio. Vehicle brake mechanism. 1,944,921; Jan. 30.
Chrysler Corporation. (See Roualet, Andre J. E., assignor.)
Chrysler Corporation. (See Zeder, Fred M., assignor.)
Cimarik, Charles K., and L. Zimarik, Akron, Ohio, assignors to The Prosperity Company Inc., Syracuse, N. Y. Washing machine. 1,945,477; Jan. 30.
Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
Cincinnati Bickford Tool Company. (See Klausmeyer, D. C., and Sosa, assignors.)
Cincinnati Bickford Tool Company. (See Schauer, Lawrence L., assignor.)
Cinecolor Company of America, Inc. (See Daponte, Demetre, assignor.)
Clarke, Robert B. F. F., Bramhall, assignor to Imperial Chemical Industries Limited, Westminster, England. Deposition of rubber. 1,945,256; Jan. 30.
Clausen, Sigurd, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Bunch shaper and bunch moistener for cigar machines. 1,945,022; Jan. 30.
Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 1,945,478; Jan. 30.
Clayton, Benjamin, Sugarland, Tex., and E. L. Lipp, Los Angeles, Calif.; said Lipp assignor to said Clayton. Coin controlled switch. 1,945,343; Jan. 30.
Clemmensen, Erik, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Purification of crude coumarin. 1,945,182; Jan. 30.
Clemmensen, Erik, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Manufacture of alkoxy derivatives of phosphorus acid chlorides. 1,945,183; Jan. 30.
Clemmensen, Erik, East Orange, N. J., assignor to Monsanto Chemical Company, St. Louis, Mo. Purification of crude coumarin. 1,945,184; Jan. 30.
Cleveland, Ralph L., and E. H. Lederer, Indianapolis, Ind. Paste feeding brush. 1,945,023; Jan. 30.
Cleveland Trust Company, The, trustee. (See Jardine, Frank, assignor.)
Cline, Allan J., Chicago, Ill. Web tension mechanism for printing presses. 1,945,136; Jan. 30.
Cline, McGarvey, Jacksonville, Fla. Oleo-resinous material and preparing the same. 1,945,421; Jan. 30.
Clipper Belt Lacer Company. (See Diamond, James K., assignor.)
Cockrell, William D., Schenectady, N. Y., assignor to General Electric Company. Sorting apparatus. 1,945,395; Jan. 30.
Cohen, Joseph H., Bridgeport, Conn. Igniting device for cigar-lighters. 1,944,922; Jan. 30.
Cohen, Joseph H., Bridgeport, Conn. Cigar-lighter. 1,944,923; Jan. 30.
Cohen, Joseph H., Bridgeport, Conn. Cigar-lighter. 1,944,924; Jan. 30.
Cohen, Joseph H., Bridgeport, Conn. Cigar lighter. 1,944,925; Jan. 30.
Coil, William D., Muncie, and W. J. De Reamer, Crown Point, assignors to Mapes Consolidated Manufacturing Company, Griffith, Ind. Packing material for fragile articles. 1,945,024; Jan. 30.
Colbeth, Ivor M., Belleville, N. J., assignor to The Baker Castor Oil Company, New York, N. Y. Measuring instrument or testing device. 1,944,926; Jan. 30.
Collins, Anthony H., Bronxville, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Earth boring apparatus. 1,945,258; Jan. 30.
Collins, Ernest V., jr. (See Landon, N. R., and Collins, jr.)
Commercial Solvents Corporation. (See Bloomfield, G., Swallen, and Crawford, assignors.)
Conti, Fabio, Chicago, Ill. Pinning top and holder. Des. 91,420; Jan. 30.
Continental-Diamond Fibre Company. (See Benge, Frank H., assignor.)
Continental Oil Company. (See Lincoln, B. H., and Henriksen, assignors.)
Cook, Charles W., Buffalo, N. Y. Automobile body lock. 1,945,257; Jan. 30.
Corcoran-Brown Lamp Company, The. (See Johnson, Roy W., assignor.)
Coultas, Wilbur J., assignor to Deere & Company, Moline, Ill. Corn picker. 1,945,364; Jan. 30.
Crater, Willard de C., Succasunna, N. J., assignor to Hercules Powder Company, Wilmington, Del. Blasting explosive. 1,945,344; Jan. 30.
Crawford, Francis M. (See Bloomfield, G., Swallen, and Crawford.)
Criner, Harry J., Davenport, Iowa. Bread slicing machine. 1,945,025; Jan. 30.
Crosman, Loring P., Maplewood, N. J., assignor to Gardner Company, Orange, N. J. Paper feed mechanism. 1,945,026; Jan. 30.
Crosman, Loring P., Maplewood, assignor to Gardner Company, Orange, N. J. Listing calculator. 1,945,027; Jan. 30.
Crowe, James H., assignor to The Midland Steel Products Company, Cleveland, Ohio. Automobile chassis frame and making same. 1,945,505; Jan. 30.
Crumrine, Chester W. (See Thompson, R. G., and Crumrine.)
Crutchfield, Graham P., Albany, Tex. Carrier. 1,945,305; Jan. 30.
Curley, Robert S., assignor to Saco-Lowell Shops, Lowell, Mass. Method of and apparatus for picking cotton. 1,945,259; Jan. 30.
Cushing, Charles F. (See Adair, S. T., and Cushing.)
Cushman Chuck Company, The. (See Sloan, H. E., and Highberg, assignors.)
Cuthbert, William R., assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa. Holder for fountain pens. 1,944,927; Jan. 30.
Cutler, Frank W., Portland, Oreg., assignor to Food Machinery Corporation, San Jose, Calif. Washer. 1,944,876; Jan. 30.
Dahl, Martin, Seattle, Wash. Can opener. 1,945,137; Jan. 30.
Dailey, William O., Portland, Oreg. Spring wire collar snubber. 1,945,422; Jan. 30.
D'Almaine, Harry, and C. F. Thompson, assignors to Bodine Electric Co., Chicago, Ill. Reaction type synchronous motor. 1,945,028; Jan. 30.
Daniel, Thomas L., Los Angeles, Calif. Cap for paste tubes and the like. 1,944,968; Jan. 30.
Daponte, Demetre, London, England, assignor to Cinecolor Company of America, Inc., New York, N. Y. Optical light dividing system. 1,945,029; Jan. 30.
Darco Corporation. (See Davis, Raymond G., assignor.)
Darlington, Homer T., West Chester, Pa., assignor, by mesne assignments, to Oil Corporation of America. Refining hydrocarbon oil vapors. 1,944,877; Jan. 30.
Darroch, Gourley, et al, executors. (See Apple, Vincent G., assignor.)
Dasey Boat Co. (See Dasey, Homer H., assignor.)
Dasey, Homer H., assignor to Dasey Boat Co., Springfield, Ill. Toy diving submarine boat. Des. 91,421; Jan. 30.
Davenport, William B. Stockton, Calif. Permanent form for concrete construction. 1,945,030; Jan. 30.
Davies, Alfred H., deceased, by Edith V. Davies, New York, N. Y., executrix. Composition of matter and process of treating molten metals. 1,945,260; Jan. 30.
Davies, Edith V., executrix. (See Davies, Alfred H.)
Davis, Lewis J., San Jose, Calif. Detachable traction rim for automobiles. 1,945,261; Jan. 30.
Davis, Mason B., Kendrick, Fla. Crushing mill. 1,944,928; Jan. 30.
Davis, Raymond G., assignor to Darco Corporation, Wilmington, Del. Revivifying spent activated carbon. 1,945,479; Jan. 30.
Dayton Steel Foundry Company, The. (See Walther, G., Baker, Guy A. and H., assignors.)
Dean, John, San Francisco, Calif. Machine and method for producing wall board. 1,945,306; Jan. 30.
Deans, Robert S., Swissvale, Pa., assignor to The Koppers Company of Delaware. Gas holder valve. 1,944,969; Jan. 30.
Decker, Alonzo G., Towson Heights, Md., assignor to The Black & Decker Manufacturing Company. Portable sander dust hood. 1,945,031; Jan. 30.
Decker, Gertrude M. (See Decker, Joseph B., assignor.)
Decker, Joseph B., assignor to G. M. Decker, Elkton, Md. Toy torpedo or impact salute. 1,945,217; Jan. 30.
Deems, Edward M., Forest Hills, assignor to Railroad Accessories Corporation, New York, N. Y. Bond. 1,945,480; Jan. 30.
Deere & Company. (See Coultas, Wilbur J., assignor.)
Deere & Company. (See Metcalf, Edgar E., assignor.)
Deere & Company. (See Swanson, S. S., and Neighbour, assignors.)
De Forest, Lee, assignor to General Talking Pictures Corporation, New York, N. Y. Gaseous discharge device. 1,944,929; Jan. 30.
De Laval Separator Company, The. (See Sangster, William, assignor.)
De Laval Separator Company, The. (See Strezynski, Georg J., assignor.)
Delaware Lackawanna & Western Coal Company. (See Landon, N. R., and Collins, jr., assignors.)

Delco Products Corporation. (See Kindl, Carl H., assignor.)
Demant, Jules E., assignor to Bozel-Maletra Société Industrielle de Produits Chimiques, Cuise Lamotte, France. Production of benzoic acid and benzoates. 1,945,032; Jan. 30.
Dennis, Wolcott, Elizabeth, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separating krypton and xenon from air. 1,945,365; Jan. 30.
Dennis, Wolcott, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Apparatus for separating the rare gases krypton and xenon from the atmosphere. 1,945,366; Jan. 30.
De Pass, Addison R., Columbia, S. C. Supporter for garden hose nozzles. 1,945,423; Jan. 30.
De Reamer, William J. (See Coil, W. D., and De Reamer.)
Diamond, James K., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Link belt. 1,945,138; Jan. 30.
Dieffenbach, Otto W., Baltimore, Md. Continuous method of making sheet cellulose tubes. 1,944,970; Jan. 30.
Diehl, Walter S., U. S. Navy. Cowling. 1,944,878; Jan. 30.
Dilkes, Howard B. (See Martindell, Frank, assignor.)
Dilkes, Howard B., Wilmette, Ill. Film holding device. 1,945,481; Jan. 30.
Dixon, Joseph, Crucible Company. (See Camagni, Jean M., assignor.)
Deane, Ernest E., and A. Bowers, Bridgewater, Mass. Device for thickening the edge of shoe soles. 1,945,262; Jan. 30.
Doble Engineering Company. (See Doble, Frank C., assignor.)
Doble, Frank C., Cambridge, assignor to Doble Engineering Company, Medford Hillside, Mass. Apparatus for testing insulating values. 1,945,263; Jan. 30.
Doubleday, Jason G., Springfield, Mass. Shock absorber. 1,944,879; Jan. 30.
Downs, Lawrence E. (See Gibson, C. H., and Downs.)
Doyle, Michael P., Brooklyn, N. Y. Bathtub fixture. 1,945,033; Jan. 30.
Drake, Harcourt C., Hempstead, assignor to Sperry Products, Inc., Brooklyn, N. Y. Flaw detector. 1,944,930; Jan. 30.
Drogue, James A., Noblesville, Ind., assignor to American Engineering Company, Philadelphia, Pa. Tuyère. 1,944,931; Jan. 30.
Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Power tractor condenser. 1,945,108; Jan. 30.
Du Chemin, Edmond H., Denver, Colo. Automatic electric hot water heating system. 1,945,139; Jan. 30.
Dugdale, Richard M., Dedham, assignor to Farrington Manufacturing Company, Boston, Mass. Printing device. 1,945,264; Jan. 30.
Duncan, William C. N., Mullewa, Western Australia, Australia. Combination lock. 1,945,424; Jan. 30.
Dunham, Charles L., Wellsburg, W. Va., assignor of one-half to B. Pink, New York, N. Y. Nut lock. 1,945,216; Jan. 30.
Dunlop Rubber Company. (See Madge, Evelyn W., assignor.)
Dünnebier, Max. (See Winkler, A., and Dünnebier.)
Du Pont, E. I., de Nemours & Company. (See Dykstra, Harry B., assignor.)
Du Pont, E. I., de Nemours & Company. (See Fothergill, R. E., and Hahn, assignors.)
Du Pont, E. I., de Nemours & Company. (See Graves, George D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Jacobson, Ralph A., assignor.)
Du Pont, E. I., de Nemours & Company. (See McCormick, F. H., and Schwartz, assignors.)
Du Pont, E. I., de Nemours & Company. (See Schwartz, George L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Woodbury, Clifford A., assignor.)
Dupuy, Louis E., assignor to The Lamson Company, Syracuse, N. Y. Conveyer system. 1,945,482; Jan. 30.
Dykstra, Harry B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of esters of ethylene dicarboxylic acids. 1,945,307; Jan. 30.
E. A. Laboratories, Inc. (See Auflero, John M., assignor.)
Eagle Pencil Company. (See Hanle, Benjamin W., assignor.)
Eash, Otto M. (See Pike, R. D., Stevenson, and Eash.)
Eaton Detroit Metal Company. (See Nehls, Charles H., assignor.)
Eaton, Paul B. (See Knee, A. A., and Eaton.)
Eberhard, Harmon S., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Tractor attachment. 1,945,185; Jan. 30.
Edeleanu Gesellschaft m. b. H. (See Grote, W., and Obergfell, assignors.)
Ehrlich, Jacob. (See Glahn, W. H., and Ehrlich.)
Einsele, Robert, Pforzheim, Germany. Fastener for bracelets adjustable in size. 1,945,266; Jan. 30.
Ekstedt, Gustav A., Philadelphia, Pa. Safety razor. 1,945,265; Jan. 30.
Electric Boat Company. (See Spear, Lawrence Y., assignor.)
Electrogear Corporation. (See Neuland, Alfons H., assignor.)
Electromatic Typewriters, Inc. (See Thompson, R. G., and Crumrine, assignors.)
Emmons, Arthur N., assignor to The Porter-Cable Machine Company, Syracuse, N. Y. Portable hand abrading machine. 1,945,425; Jan. 30.
Emmons, Herbert I., Methuen, Mass. Loom harness operating mechanism. 1,944,971; Jan. 30.
Energen Foods Company Limited. (See Poultney, Samuel V., assignor.)
Engineering and Research Corporation, The. (See Stirlen, E. D., and Geer, assignors.)
Epstein, Albert K., and B. R. Harris, Chicago, Ill. Cheese product and producing the same. 1,945,345; Jan. 30.
Epstein, Albert K., and B. R. Harris, Chicago, Ill. Baked flour product and making the same. 1,945,346; Jan. 30.
Epstein, Albert K., and B. R. Harris, Chicago, Ill. Margarine with improved flavor and process. 1,945,347; Jan. 30.
Etablissements E. & M. Lamort Fils. (See Lamort, Marcel, assignor.)
Eustis, Frederic A. (See Cain, John R., assignor.)
Evoy, Martin, Philadelphia, Pa. Loading hoist for trucks. 1,945,426; Jan. 30.
Explorotor A. G. (See Silbermann, E., and Stolcz, assignors.)
Eyston, George E. T., assignor to Powerplus (1927), Limited, London, England. Rotary pump machine. 1,945,220; Jan. 30.
Fafnir Bearing Company, The. (See Smith, John W., assignor.)
Fairbairn, Walter M. (See Johnson, A. M., and Fairbairn.)
Fairfield, Thomas J. (See Beaver, C. J., Fairfield, and Smith.)
Fanner Manufacturing Company, The. (See Raible, Charles G., assignor.)
Farnham, John P., and C. C. Bishop, Buffalo, N. Y. Surgical electrode. 1,945,140; Jan. 30.
Farnham, Paul O., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Coupled circuits. 1,945,427; Jan. 30.
Farr, Warren H., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Hub cap construction. 1,945,348; Jan. 30.
Farrington Manufacturing Company. (See Dugdale, Richard M., assignor.)
Faure, André, and A. Faure, Firminy, Loire, France. Transformable lifting appliance. 1,944,972; Jan. 30.
Faure, Antoine. (See Faure, André, and A.)
Featherstone, William H., London, England, assignor to Allen, Rae & Company, Limited. Locking device. 1,945,428; Jan. 30.
Ferguson Brothers Manufacturing Company. (See Boardman, Whitlock W., assignor.)
Fenska, Roger R., South Bend, Ind. Receptacle. 1,945,141; Jan. 30.
Fenton, George F. (See Miller, J. M., and Fenton.)
Fenton, George F. (See Miller, J. M., and Fenton.)
Fichtmueller, Julius, Stapleton, N. Y. Electrolytic production of embossing foils of gold or other metal or of different metals. 1,945,142; Jan. 30.
Fiedler, Franz P., Pittsburgh, and A. O. Jaeger, Mount Lebanon, assignors to The Selden Company, Pittsburgh, Pa. Contact sulphuric acid process. 1,945,267; Jan. 30.
Fielding, John, North Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Ornament retaining device. 1,945,208; Jan. 30.
Filby, Frederick G. (See Sandeman, E. K., and Filby.)
Filippone, B., & Co. Inc. (See Tanzi, Guido, assignor.)
Filtration Holding Corporation. (See Laughlin, William C., assignor.)
Finkel, Jacob, Philadelphia, Pa. Producing flour. 1,944,880; Jan. 30.
Finkel, Jacob, Philadelphia, Pa. Prepared cake flour. 1,944,881; Jan. 30.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole laying machine. 1,944,882; Jan. 30.
First-Central Trust Company, The. (See Harris, Howard C., assignor.)
Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Construction material. 1,945,308; Jan. 30.
Fishburn, John E., Uxbridge, and C. F. Webb, Kenton Park, assignors to Bell Punch Company Limited, Uxbridge, England. Ticket issuing machine. 1,945,218; Jan. 30.
Fisher, Davis W., Brownfield, Tex. Toy. Des. 41,422; Jan. 30.
Flarsheim, Edwin S., assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio. Bucky grid actuating device. 1,945,499; Jan. 30.
Florsheim Shoe Company, The. (See Sechler, W. N., and Goodman, assignors.)
Floyd, Henry B. (See Hillstrom, A. F., and Petterson, assignors.)
Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Substance supporting table for slicing machines. 1,945,143; Jan. 30.
Follett, Elroy C., and A. W. Heater, Newberg, Oreg. Portable nail stripper. 1,945,144; Jan. 30.

Fonseca, Edward L., assignor to The Wilcolator Company, Newark, N. J. Automatic fuel control device. 1,945,109; Jan. 30.
Food Machinery Corporation. (See Cutler, Frank W., assignor.)
Ford, James A., Birmingham, Mich. Boiler construction. 1,945,349; Jan. 30.
Forstner, William, Irvington, N. J. Apparel belt front. Des. 91,423; Jan. 30.
Foster Bros. Manufacturing Company. (See Frank, William E., assignor.)
Fothergill, Robert E., and F. C. Hahn, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Esterification of cellulose and cellulosic material. 1,945,310; Jan. 30.
Fournier, Emmanual J., assignor to Production Engineering Company, Detroit, Mich. Milling machine. 1,945,146; Jan. 30.
Fowler, Joseph E., Worcester Mass. Liquid level regulator. 1,945,429; Jan. 30.
Frank, William E., assignor to Foster Bros. Manufacturing Company, St. Louis, Mo. Folding couch or davenport. 1,945,186; Jan. 30.
Frantz, Clarence G., Cleveland Heights, Ohio. Refrigerator cabinet. Des. 91,424; Jan. 30.
Freudenberg, Gotthard, Brooklyn, assignor to A. M. Peters, New York, N. Y. Slicing machine. 1,945,269; Jan. 30.
Friendly, Herbert M., Portland, Oreg., M. S. Friendly, and Central Republic Trust Company, executors. Telephone system. 1,944,911; Jan. 30.
Friendly, Herbert M., Portland, Oreg., M. S. Friendly, and Central Republic Trust Company, executors. Telephone system. 1,944,912; Jan. 30.
Friendly, Herbert M., Chicago, Ill., M. S. Friendly, and Central Republic Trust Company, executors. Selector. 1,945,465; Jan. 30.
Friendly, Herbert M., Chicago, Ill., M. S. Friendly, and Central Republic Trust Company of Illinois, executors. Telephone system. 1,945,466; Jan. 30.
Friendly, Herbert M., Portland, Oreg., M. S. Friendly, and Central Republic Trust Company, executors. Telephone system. 1,945,467; Jan. 30.
Friendly, Herbert M., Portland, Oreg., M. S. Friendly, and Central Republic Trust Company, executors. Telephone system. 1,945,468; Jan. 30.
Friendly, Milton S., et al, executors. (See Friendly, Herbert M., assignor.)
Froemming, George H. (See La Montagne, P. P., and Froemming.)
Fruhstorfer, Edgar, Paris, France, assignor to Isothermos Corporation of America, New York, N. Y. Obturating disk. 1,945,219; Jan. 30.
Gallagher, Stephen H., Utica, N. Y. Leaf spring lubricator. 1,945,187; Jan. 30.
Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Cam controlled hydraulic feed mechanism. 1,945,034; Jan. 30.
Gardner Company. (See Crosman, Loring P., assignor.)
Gardner, Prince A., jr., St. Louis, Mo. Billfold. 1,945,188; Jan. 30.
Garrett, Henry A., Xenia, Ohio. Compound tool. 1,945,430; Jan. 30.
Gassner, Sebastian, and H. Berthold, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Printing of textile fibers. 1,945,221; Jan. 30.
Gazda, Anton, Vienna, Austria. Humidifier for carburetor. 1,945,421; Jan. 30.
Geer, Charles D. (See Stirlen, E. D., and Geer.)
Geer, Olin M. (See MacGregor, W. F., and Geer.)
Gemeny, Blaine B., Chicago, Ill., and B. I. Weller, Highland, Ind. Elevator bucket. 1,944,932; Jan. 30.
General Aniline Works, Inc. (See Gassner, S., and Berthold, assignors.)
General Aniline Works, Inc. (See Hagenböcker, A., and Brune, assignors.)
General Aniline Works, Inc. (See Krünzlein, G. Vollmann, Boedeker, and Becker, assignors.)
General Cable Corporation. (See Traxel, Charles E., assignor.)
General Electric Company. (See Atwood, Winfield A., assignor.)
General Electric Company. (See Chapman, Charles H., assignor.)
General Electric Company. (See Cockrell, William D., assignor.)
General Electric Company. (See Gerling, Carl H., assignor.)
General Electric Company. (See Horowicz, Eugen, assignor.)
General Electric Company. (See Lum, Walter O., assignor.)
General Electric Company. (See Robbins, Percy A., assignor.)
General Fire Extinguisher Company. (See Carraway, T. W., and Littlepage, assignors.)
General Machinery Corporation. (See Byerlein, Arthur A., assignor.)
General Steel Castings Corporation. (See Howard, Karl S., assignor.)
General Talking Picture Corporation. (See de Forest, Lee, assignor.)
Gerlich, Hermann, Kiel, Germany. Projectile propelling apparatus. 1,944,883; Jan. 30.
Gerlich, Hermann, Bexley, England. Projectile. 1,944,885; Jan. 30.
Gerlich, Hermann E. G. T., Kiel, Germany. Bullet. 1,944,884; Jan. 30.
Gerling, Carl H., Schenectady, N. Y., assignor to General Electric Company. Grinding machine. 1,945,396; Jan. 30.
Getz, Alonzo M., Morton, Pa. Thermostat lock. 1,945,432; Jan. 30.
Gibson, Andrew F., Berkeley, Calif. Book ends. Des. 91,425; Jan. 30.
Gibson, Charles H., and L. E. Downs, Richmond, Va., assignors to The American Tobacco Company, New York, N. Y. Seam sealer for cigarette machines. 1,945,433; Jan. 30.
Glahn, William H., Arlington, and J. Ehrlich, Belleville, assignors to Verona Chemical Company, North Newark, N. J. Purification of 2-phenyl-quinoline-4-carboxylic acid and its salts. 1,945,270; Jan. 30.
Gliddon, Gordon H. (See Ames, A., jr., and Gliddon.)
Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
Globe Machine & Stamping Company, The. (See Green, Lee B., assignor.)
Gluck, Fred C., and P. A. McCaskey, assignors to Minerva Wax Paper Company, Minerva, Ohio. Dispensing package. 1,945,483; Jan. 30.
Gobert, Maurice, Chaville, assignor to l'Air Liquide, Societe Anonyme pour l'Etude & l'Exploitation des Procedes Georges Claude, Paris, France. Separation of gaseous mixtures. 1,945,367; Jan. 30.
Goessmann, Anna M. D., executrix. (See Goessmann, Charles I.)
Goessmann, Charles I., deceased, Providence, R. I., by Anna M. D. Goessmann, executrix, Brooklyn, N. Y. Paper making. 1,944,886; Jan. 30.
Goldberg, Solom, Louisville, Ky. Comb. Des. 91,426; Jan. 30.
Gong Bell Manufacturing Company, The. (See Allen, Harold D., assignor.)
Goodman, Samuel. (See Sechler, W. N., and Goodman.)
Goodman, Willard B., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 1,945,189; Jan. 30.
Goodstein, Charles B. (See Posnack, Emanuel R., assignor.)
Gordon, Abraham, Chicago, Ill. Ear protector. 1,945,110; Jan. 30.
Gordon, Graham M., assignor to Viber Company, Limited, Los Angeles, Calif. Method of and apparatus for compacting and dewatering cementitious mixtures. 1,945,145; Jan. 30.
Gough, Harry E., Ozone Park, N. Y. Hat block construction. 1,945,368; Jan. 30.
Govers, Francis X., Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill. Extraction and dewaxing of lubricating oils. 1,945,350; Jan. 30.
Grafton, Corydon M., Rochester, assignor to Foster D. Snell, Inc., Brooklyn, N. Y. Soap dispenser. 1,945,351; Jan. 30.
Granstedt, Karl E., assignor to Aktiebolaget Formator, Stockholm, Sweden. Cigar wrapping device. 1,944,973; Jan. 30.
Grant, Dudley H. (See Sankowsky, N. A., and Grant.)
Graves, George D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Esters and preparing same. 1,944,887; Jan. 30.
Gray, Fred D., Herkimer, assignor to Holed-Tite Packing Corporation, New York, N. Y. Pastry holder. 1,945,397; Jan. 30.
Gray Processes Corporation, The. (See Youker, Malcolm P., assignor.)
Green, Lee B., Lakewood, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Tumbling barrel. 1,945,035; Jan. 30.
Green, Lee B., Lakewood, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Automatic control for shock absorbers. 1,945,036; Jan. 30.
Greenlee, Charles W. (See Krueger, John C., assignor.)
Greer, David McK., assignor to American Instrument Company, Washington, D. C. Thermostat. 1,945,434; Jan. 30.
Gregg, Katharine S., Cochituate, Mass. Music reading game. 1,945,398; Jan. 30.
Griffiths, Ernest, Liverpool, England. Furnace for annealing metal sheets by a continuous process. 1,944,974; Jan. 30.
Griffiths, Evelyn E., Blundellsands, England. Apparatus for treating metal sheets. 1,944,975; Jan. 30.
Grote, Wolfgang, Berlin-Wilmersdorf, Germany, and P. Obergfell, New York, N. Y., assignors to Edeleanu Gesellschaft m. b. H. Treating lubricating oil stocks with liquid sulphur dioxide. 1,945,50:: Jan. 30.
Guskea, Andrew E., S. Homa, and J. Cchultz, Toronto, Ohio. Apparatus for pressing clay products. 1,945,399; Jan. 30.
Gustafson, Charles J. (See Mock, F. C., Gustafson, and Chandler.)
Gustafson, Ernest B., New York, N. Y. Agricultural implement. 1,945,311; Jan. 30.
Guthrie, Roy R. (See Tupica, Harry T., assignor.)
Hagenböcker, Alfred, and R. Brune, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Dyestuff preparations. 1,945,484; Jan. 30.
Haglund, Hakon H., Flushing, assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph system. 1,944,888; Jan. 30.

Hahn, Frederick C. (See Fothergill, R. E., and Hahn.)
Hall, Edwin S., New Haven, Conn. Typewriter line stop. 1,944,889; Jan. 30.
Haller, Herbert L. J., and P. S. Schaffer, Washington, D. C., dedicated to the free use of the Public. Preparing dehydrorotenone. 1,945,312; Jan. 30.
Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Stripper for cigar machine pasters. 1,945,037; Jan. 30.
Hamilton Beach Manufacturing Company. (See Nielsen, Emanuel, assignor.)
Hamilton, Eugene B., Boston, Mass. Vacuum gatherer. 1,944,976; Jan. 30.
Hamilton, Eugene B., Boston, Mass. Match box. 1,944,977; Jan. 30.
Hand, John A., Cleveland, Ohio. Cushion covering and making same. 1,945,038; Jan. 30.
Handlan, Alexander H., St. Louis, Mo. Lens for signal lamps. 1,945,190; Jan. 30.
Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y. Pen holder. 1,945,271; Jan. 30.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Ultrashort wave oscillation generation. 1,945,089; Jan. 30.
Hansen, Christian J., Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Removal of ammonia and hydrogen sulphide from gases. 1,944,978; Jan. 30.
Harris, Archer H., administrator. (See Harris, Howard C.)
Harris, Benjamin R. (See Epstein, A. K., and Harris.)
Harris, Howard C., Akron, Ohio, deceased, A. H. Harris, administrator, assignor, by mesne assignments, to The First-Central Trust Company, Akron, Ohio, trustee. Pivotal connection. 1,945,369; Jan. 30.
Harshberger, Norman P., Pasadena, Calif., assignor to Bakelite Building Products Co. Inc. New York, N. Y. Roofing and siding element. 1,945,485 Jan. 30.
Harter, George F., assignor to Standard Electric Time Company, Springfield, Mass. Electric clock. 1,945,272; Jan. 30.
Harvel Corporation, The. (See Hughes, William A., assignor.)
Harwood, Clark, Auburndale, Mass. Automobile bumper shield. 1,944,933; Jan. 30.
Hastings, Herbert, Brighton, N. Y. Thermometer. 1,945,400; Jan. 30.
Hastings, Odie L., Houston, Tex. Valve mechanism. 1,944,979; Jan. 30.
Hayes, Edmund W., Arlington, Mass. Envelope. 1,944,980; Jan. 30.
Hayungs, Henry A. (See Jones, William A., assignor.)
Heater, Albert W. (See Follett, E. C., and Heater.)
Heidloff, Joseph R., assignor to Hydraulic Brake Company, Detroit, Mich. Hose coupling. 1,944,890; Jan. 30.
Henriksen, Alfred. (See Lincoln, B. H., and Henriksen.)
Henry, Irving J. (See Read, Arthur E., assignor.)
Hercules Powder Company. (See Crater, Willard de C., assignor.)
Hercules Powder Company. (See Humphrey, Irvin W., assignor.)
Herz Cup Company. (See Lobel, Paul A., assignor.)
Herzer, Russell A., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Gas heated ironing machine. 1,945,273; Jan. 30.
Hewitt, Albert, London, England. Metal planning and like machine tool. 1,944,981; Jan. 30.
Highberg, George A. (See Sloan, H. E., and Highberg.)
Hill, Harry H., U. S. Navy. Antenna. 1,944,891; Jan. 30.
Hillstrom, Alex F., and V. Petterson, assignors to Henry B. Floyd, Chicago, Ill. Detachable connecting means. 1,945,352; Jan. 30.
Hillyard, Newton S., St. Joseph, Mo. Nursery soap dispenser. 1,945,111; Jan. 30.
Hoadley, Harry W., Findlay, Ohio. Steam generator. 1,945,313; Jan. 30.
Hockley, Chester F., receiver. (See Adair, S. T., and Cushing.)
Hockley, Chester F., receiver. (See Miller, Ernest B., assignor.)
Hofsäss, Max, Amsterdam, assignor to Naamlooze Vennootschap de Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Manufacture of urea. 1,945,314; Jan. 30.
Hogan, George F., Chicago, Ill. Photographic equipment. 1,945,112; Jan. 30.
Holed-Tite Packing Corporation. (See Gray, Fred D., assignor.)
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,945,486; Jan. 30.
Holst, Gilles, and B. D. H. Tellegen, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Amplifying electric oscillations. 1,945,040; Jan. 30.
Holst, Gilles, and B. D. H. Tellegen, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Discharge tube for amplifying electric oscillations. 1,945,041; Jan. 30.
Holzwarth Gas Turbine Company. (See Holzwarth, Hans, assignor.)
Holzwarth, Hans, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Company, San Francisco, Calif. Explosion turbine plant. 1,944,892; Jan. 30.
Homa, Steve. (See Guskea, A. E., Homa, and Schultz.)
Hooven, Howard D., jr., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. Des. 91,427; Jan. 30.
Hopkins, Allan V., Vaucluse, near Sydney, New South Wales, Australia. Motor driven surf board. 1,945,435; Jan. 30.
Hopkins, Claude C., Fruitport, Mich., assignor to Rex Research Corporation, Toledo, Ohio. Spray gun. 1,945,147; Jan. 30.
Hormel, August, Hoboken, N. J. Metal plate cleaning machine. 1,945,274; Jan. 30.
Horowicz, Eugen, Berlin-Halensee, Germany, assignor to General Electric Company. Electric valve converting system. 1,945,401; Jan. 30.
Howard, Karl S., Philadelphia, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Locomotive structure. 1,944,893; Jan. 30.
Hoy, John E., Midland, Mich., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Extrusion press. 1,944,982; Jan. 30.
Hughes, William A., Morristown, N. J., assignor to The Harvel Corporation. Package and preparing the same. 1,945,148; Jan. 30.
Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Separating borneol from pine oil. 1,945,501; Jan. 30.
Hunt, Scott F., assignor to Bendix Stromberg Carburetor Company, South Bend, Ind. Carburetor. 1,945,191; Jan. 30.
Hunt, Scott F., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 1,945,192; Jan. 30.
Hürlimann, Max. (See Widmer, S., Keller, and Hürlimann.)
Hydraulic Brake Company. (See Heidloff, Joseph R., assignor.)
Hydraulic Press Manufacturing Company, The. (See Benedek, Elek, assignor.)
Imperial Chemical Industries Limited. (See Clarke, Robert B. F. F., assignor.)
Imperial Chemical Industries Limited. (See Levesley, A. S., and Randall, assignors.)
Indian Refining Company. (See Govers, Francis X., assignor.)
Indiana Limestone Company. (See Oldham, Anthus D., assignor.)
Indiana Limestone Company. (See Walls, Lowell D., assignor.)
Ingalls, William A., Bristow, Okla. Combined safety and sealing device for oil and gas wells. 1,945,222; Jan. 30.
Ingram, Oscar L., Walla Walla, Wash. Liquid level gauge. 1,945,042; Jan. 30.
International Cigar Machinery Company. (See Clausen, Sigurd, assignor.)
International Cigar Machinery Company. (See Halstead, John F., assignor.)
International Standard Electric Corporation. (See Sandeman, E. K., and Filby, assignors.)
Isom, Edward W., Scarsdale, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,945,275; Jan. 30.
Isothermos Corporation of America. (See Fruhstorfer, Edgar, assignor.)
Jackman, Fred W., Beverly Hills, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Composite picture. 1,945,193; Jan. 30.
Jackson, Joseph R., jr., Boston, Mass. Electric elevator. 1,945,502; Jan. 30.
Jacobson, Ralph A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Formaldehyde condensation product. 1,945,315; Jan. 30.
Jaden, Fred I., Hastings, Nebr. Blower for hot air furnaces. 1,945,223; Jan. 30.
Jaeger, Alphons O. (See Fiedler, F. P., and Jaeger.)
Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Catalytic apparatus. 1,945,353; Jan. 30.
Jaeger, Alphons O., Mt. Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Oxidation of mononuclear aromatic hydrocarbons. 1,945,354; Jan. 30.
Jaffé, William E. B., Chelsea, London, England. Machine for facilitating the stringing of lawn tennis and like rackets. 1,945,043; Jan. 30.
Jahn, B., Manufacturing Company, The. (See Kahl, Ernest E., assignor.)
Jardine, Frank, assignor, by mesne assignments, to The Cleveland Trust Company, trustee, Cleveland, Ohio. Piston. 1,944,934; Jan. 30.
Jardine, Frank, assignor, by mesne assignments, to The Cleveland Trust Company, trustee, Cleveland, Ohio. Piston. 1,944,935; Jan. 30.
Jarvis, Chas. L., Company. (See Wezel, Walter P., assignor.)
Jenson, Arthur H. (See Beach, F. E., and Jenson.)
Johns-Manville Corporation. (See McQuade, Walter, assignor.)
Johns-Manville Corporation. (See Smolak, G., and McQuade, assignors.)
Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Honing machine. 1,945,045; Jan. 30.
Johnson, Albert M., and W. M. Fairbairn, assignors to Barnes Drill Co., Rockford, Ill. Honing machine. 1,945,044; Jan. 30.
Johnson, Frank F., assignor to John I. Paulding, Inc., New Bedford, Mass. Electric switch. 1,945,487; Jan. 30.

Johnson, Roy W., assignor to The Corcoran-Brown Lamp Company, Cincinnati, Ohio. Lamp. 1,945,309; Jan. 30.
Johnston, Harry A., Redlands, assignor to Johnston Tractor Company, Ltd., Los Angeles, Calif. Carburetor. 1,945,316; Jan. 30.
Johnston Tractor Company. (See Johnston, Harry A., assignor.)
Jones, John D., Portland, Oreg. Bearing for electric motors and the like. 1,944,936; Jan. 30.
Jones, William A., assignor to H. A. Hayungs, Los Angeles, Calif. Sadiron base and cord support. 1,945,194; Jan. 30.
Joy Manufacturing Company. (See Arentzen, Einar M., assignor.)
Juestrich, Max U., Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn. Textile fabric. Des. 91,428; Jan. 30.
Kaestner, E. A., Company. (See Kaestner, John G., assignor.)
Kaestner, John G., Baltimore, Md., assignor to E. A. Kaestner Company. Heat interchanger. 1,945,402; Jan. 30.
Kahl, Ernest E., assignor to The B. Jahn Manufacturing Company, New Britain, Conn. Key milling machine. 1,945,276; Jan. 30.
Kalif Corporation. (See Pike, R. D., Stevenson, and Eash, assignors.)
Kalin, Josef, Lemoore, Calif. Oil level switch. 1,945,347; Jan. 30.
Kämpf, Adolf, Dessau-Ziebigk, Germany. Viscosimeter. 1,944,983; Jan. 30.
Kaplan, Morris, Brooklyn, N. Y. Ash tray. Des. 91,429; Jan. 30.
Karfiol, Edward, New York, N. Y. Shelf-paper. Des. 91,430; Jan. 30.
Karpf, Charles O., New York, N. Y., assignor to Mannington Mills, Incorporated, Salem, N. J. Floor covering. Des. 91,431; Jan. 30.
Karpf, Charles O., New York, N. Y., assignor to Mannington Mills, Incorporated, Salem, N. J. Floor covering. Des. 91,432; Jan 30.
Kay-Brunner Steel Products Inc. (See Kay, Lloyd D., assignor.)
Kay, Lloyd D., Los Angeles, Calif., assignor to Kay-Brunner Steel Products Inc. Dual tired truck wheel. 1,945,277; Jan. 30.
Keeney, Karl P., St. Louis, Mo., and H. E. Turley, Chicago, Ill. Treatment of bread. 1,945,436; Jan. 30.
Kellems, Edgar E., New York, N. Y. Method of and apparatus for making cable grips. 1,945,195; Jan. 30.
Keller, Hans. (See Widmer, S., Keller, and Hürlimann.)
Kelly, Orin, Columbus, Ohio. Furnace. 1,945,224; Jan. 30.
Kelly, Orin, Columbus, Ohio. Furnace. 1,945,225; Jan. 30.
Kelly, William W., Cleveland Heights, Ohio. Nut warmer. 1,945,196; Jan. 30.
Kelsey, Cadwallader W., Short Hills, N. J., assignor to Rototiller Inc., Long Island City, N. Y. Agricultural implement. 1,944,937; Jan. 30.
Kelvinator Corporation. (See Vis, George A., assignor.)
Kennard, Joseph S., jr., New York, N. Y. Safety razor. 1,945,370; Jan. 30.
Kennedy, Edward, New York, N. Y. Water heater. 1,944,894; Jan. 30.
Kindl, Carl H., assignor to Delco Products Corporation, Dayton, Ohio. Shock absorber. 1,945,046; Jan. 30.
Kingsland, William K., Philadelphia, Pa. Brake tester. 1,945,278; Jan. 30.
Kinzie, Charles J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Enameling composition. 1,944,938; Jan. 30.
Klaiber, Friedrich, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Synchronizing system. 1,945,355; Jan. 30.
Klausmeyer, David C., Hyde Park, and A. M. Sosa, assignors to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Head mounted arm clamp and elevating control. 1,945,047; Jan. 30.
Klausmeyer, David C., deceased, by H. H. Sundermann, executor, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company. Electric rail clamp for mobile drills. 1,945,048; Jan. 30.
Klayman, Frank I., Newton, and F. R. Lawrence, Roxbury; said Klayman assignor to Louis Gordon, Chelsea, Mass. Apparatus for cleaning and sterilizing feathers. 1,945,296; Jan. 30.
Klein, Leonard. (See Ralston, O. C., and Klein.)
Klippel, George H., Syracuse, N. Y. Draft attachment for furnaces and the like. 1,944,984; Jan. 30.
Klobučník, Frank, Chicago, Ill. Window seat. 1,945,113; Jan. 30.
Knee, Aaron A., assignor to Vanak Corporation, Charlotte, N. C. Combined preventive means for check controlled apparatus. 1,945,318; Jan. 30.
Knee, Aaron A., assignor to Vanak Corporation, Charlotte, N. C. Fraud preventive device for check controlled apparatus. 1,945,319; Jan. 30.
Knee, Aaron A., assignor to Vanak Corporation, Charlotte, N. C. Check testing means for check controlled apparatus. 1,945,320; Jan. 30.
Knee, Aaron A., and P. B. Eaton, assignors of one-third to S. A. Van Every, Charlotte, N. C. Title card holder. 1,945,321; Jan. 30.
Knoop, William A., Hempstead, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Synchronizing system. Re19,067; Jan. 30.
Koch, Clarence W. and F. L., St. Louis, Mo. Fastening means for furniture. 1,945,197; Jan. 30.
Koch, Fred L. (See Koch, Clarence W. and F. L.)
Koger, Ossie J., Kansas City, Mo. Yarn or thread holder. Des. 91,433; Jan. 30.
Konold, Clyde H. (See Wurzbach, H. E., and Konold.)
Koppers Company of Delaware, The. (See Bradford, J. D., and McAleer, assignors.)
Koppers Company of Delaware, The. (See Deans, Robert S., assignor.)
Koppers Company of Delaware, The. (See Hansen, Christian J., assignor.)
Koppers Company of Delaware, The. (See Leithauser, Heinz, assignor.)
Koppers Company of Delaware, The. (See Lux, Elisabeth, assignor.)
Koppers Company of Delaware, The. (See Powell, Alfred R., assignor.)
Koppers Company of Delaware, The. (See Schüffler, Julius, assignor.)
Koppers Company of Delaware, The. (See Shively, Walter L., assignor.)
Koppers Company of Delaware, The. (See Shoeld, Mark, assignor.)
Koran, William D., Providence, R. I., assignor to The Williams and Anderson Company. Altar. 1,944,985; Jan. 30.
Kowan, Maurice H. (See Ryan, E. J., and Kowan.)
Kramer, Gustav A. (See Rosenstein, L., and Kramer.)
Kraner, Warren A., assignor to Cement Wrapped Pipe Company, Ltd., San Francisco, Calif. Concrete pipe coupling. 1,945,279; Jan. 30.
Kränzlein, Georg, H. Vollmann, and H. Boedeker, Frankfort-on-the-Main-Hochst, and H. Becker, Hofheim-in-Taunus, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat dyestuffs of the anthraquinone-acridone series and preparing them. 1,944,986; Jan. 30.
Krause, Arthur H. (See Bertsch, J. A., and Krause.)
Krause, Norman R. (See Walsh, J. L., and Krause.)
Krueger, John C., assignor of one-half to C. W. Greenlee, Port Angeles, Wash. Terminal clamp. 1,945,437; Jan. 30.
Kruglick, Harry. (See Nudelman, C. S., and Kruglick.)
Kunderd, Robert J., Elkhart County, Ind. Combined row maker and coverer. 1,944,939 Jan. 30.
Lachman, Arthur, Berkeley, assignor to Vapor Treating Processes Inc., Los Angeles, Calif. Refining hydrocarbon oils. 1,945,114; Jan. 30.
Lafayette, Alphonse J., jr., Pittsburgh, Kans. Coal pinning and breaking machine. 1,945,322; Jan. 30.
L'Air Liquide, Societe Anonyme pour l'Etude & l'Exploitation des Procedes Georges Claude. (See Gobert, Maurice, assignor.)
Lake, Golladay, Grenada, Miss. Display device. 1,945,049; Jan. 30.
Lambusta, Peter, Newark, N. J. Ring. 1,945,280; Jan. 30.
La Montagne Machine Company. (See La Montagne, P. P., and Froemming, assignors.)
La Montagne, Patrick P., and G. H. Froemming, assignors to La Montagne Machine Company, Kankakee, Ill. Knitting machine. 1,945,227; Jan. 30.
Lamort, Marcel, assignor to Etablissements E. & M. Lamort Fils, Vitry-le-Francois, France. Filtering apparatus. 1,945,491; Jan. 30.
Lamort, Marcel, assignor to Etablissements E. & M. Lamort Fils, Vitry-le-Francois, France. Pulp strainer. 1,945,492; Jan. 30.
Lamson Company, The. (See Dupuy, Louis E., assignor.)
Landahl, Magnus, San Francisco, Calif. Cable gripping device. 1,945,438 Jan. 30.
Landis Tool Company. (See Steiner, Amos P., assignor.)
Landon, Nathaniel R., Mount Kisco, and E. V. Collins, jr., Brooklyn, assignors to Delaware Lackawanna & Western Coal Company, New York, N. Y. Treating coal and product thereof. 1,945,371; Jan. 30.
Lange, George, Rockville Center, N. Y. Forming ice cubes. 1,945,230; Jan. 30.
Larsen, Louis H., Englewood, N. J. Automatic stoker. 1,945,050; Jan. 30.
Larson, Carl H., Elkhart, Ind., assignor to The Adlake Company. Signal lamp. 1,945,198; Jan. 30.
Lasher, Loven, Denver, Colo. Cement composition. 1,945,149; Jan. 30.
Laughlin, William C., Glendale, Calif., assignor, by mesne assignments, to Filtration Holding Corporation, New York, N. Y. Treating liquids. 1,945,051; Jan. 30.
Lavarack, Frederick C., Montclair, N. J., and B. A. Lundy, Larchmont, assignors to Railroad Accessories Corporation, New York, N. Y. Cable support. 1,945,488; Jan. 30.
Lawrence, Frederick R. (See Klayman, F. I., and Lawrence.)
Lear, William P., Chicago, Ill., and M. E. Nulsen, assignors to P. R. Mallory & Co., Incorporated, Indianapolis, Ind. Magnetic interrupter. 1,944,940; Jan. 30.
Ledeboer, John W., Ambler, Pa., assignor to Ambler Asbestos Shingle & Sheathing Company. Corrugated sheathing and forming same. 1,944,895; Jan. 30.
Lederer, Edward H. (See Cleveland, R. L., and Lederer.)
Legge, Alfred G., Brockton, Mass. Outsole for shoes. 1,945,115; Jan. 30.

Leighton, John W., Port Huron, Mich. Shock eliminator. 1,945,403; Jan. 30.

Leithäuser, Heinz, Essen on the Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Evaporating apparatus. 1,945,281; Jan. 30.

Leland Electric Company, The. (See Leland, George H., assignor.)

Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Switch operating mechanism for electric motors. 1,945,503; Jan. 30.

Lempco Products Inc. (See Blazek, J. Y., and Anderson, assignors.)

Lester, Frances E., New York, N. Y. Pneumotympanic vibrator. 1,945,372; Jan. 30.

Levesley, Alfred S., Saltcoats, and F. C. Randall, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited. Manufacture of cellulose ethers. 1,944,896; Jan. 30.

Lewand, Joseph, et al. (See Lewand, Valentine, assignor.)

Lewand, Valentine, assignor of one-third to F. Weinder and one-third to J. Lewand, Chicago, Ill. Transmission. 1,945,439; Jan. 30.

Lewis, Myron H., New York, N. Y. Surveying instrument. 1,945,323; Jan. 30.

Liddle, Nellie R., New York, N. Y. Club house front or the like. Des. 91,434; Jan. 30.

Liebel-Flarsheim Company, The. (See Flarsheim, Edwin S., assignor.)

Lincoln, Bert H., and A. Henriksen, assignors to Continental Oil Company, Ponca City, Okla. Lubricating oil. 1,944,941; Jan. 30.

Lindgren, Bror J., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Supporting structure for punch presses and the like. 1,945,282; Jan. 30.

Link-Belt Company. (See Pierce, Harold S., assignor.)

Lipp, Elmer L. (See Clayton, B., and Lipp.)

Littlepage, Benjamin G. (See Carraway, T. W., and Littlepage.)

Ljungström, Fredrik, Lidingo, assignor to Aktiebolaget Spontan, Stockholm, Sweden. Turbine. 1,944,987; Jan. 30.

Lloyd, Harry P., Wilmington, Del. Nut lock. 1,945,325; Jan. 30.

Löbbe, Wilhelm, Westphalia, Germany. Conveyer. 1,945,324; Jan. 30.

Lobel, Paul A., assignor to Herz Cup Company, Incorporated, New York, N. Y. Dispenser for cups or the like. Des. 91,435; Jan. 30.

Long, Bernard, assignor to Societe Anonyme des Manufacture des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Glass products and manufacturing sponge-like glass. 1,945,052; Jan. 30.

Loomis, Harold S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Resilient tire construction for track circuit shunting. 1,945,283; Jan. 30.

Lorenz, William, New York, and L. W. Pollack, Brooklyn, N. Y. Eye mechanism for dolls. 1,945,150; Jan. 30.

Lowe, Ernest A., Cleveland Heights, assignor to Automatic Sprinkler Company of America, Cleveland, Ohio. Automatic fire extinguishing apparatus. 1,945,284; Jan. 30.

Lum, Walter O., Schenectady, N. Y., assignor to General Electric Company. Control system. 1,944,988; Jan. 30.

Lundin, Axel G., Blairstown, N. J., assignor to American Machine & Foundry Company. Clutch for tapping attachments. 1,945,053; Jan. 30.

Lundy, Beverly A. (See Lavarack, F. C., and Lundy.)

Lutsche, Carl F., Schofield Barracks, Territory of Hawaii. Polo boot. 1,945,226; Jan. 30.

Lux, Elizabeth, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Method and apparatus for making ceramic shapes. 1,944,989; Jan. 30.

MacDonald, Robert G., Chicago, Ill. Gold teaching and playing device. 1,944,942; Jan. 30.

Macfie, William L., assignor to Andrew & Suter Limited, London, England. Safety device for presses and the like. 1,945,116; Jan. 30.

MacGregor, Wallace F., and O. M. Geer, assignors to J. I. Case Company, Racine, Wis. Hammer mill. 1,945,054; Jan. 30.

Machlett, Raymond R., Scarsdale, assignor to Rainbow Light, Inc., Long Island City, N. Y. Low voltage discharge tube. 1,945,285; Jan. 30.

Machlett, Raymond R., Scarsdale, assignor to Rainbow Light, Inc., Long Island City, N. Y. Electric discharge tube. 1,945,286; Jan. 30.

Macneil, Paul H., Huntington, N. Y. Angle determining instrument. 1,944,897; Jan. 30.

Madge, Evelyn W., Erdington, Birmingham, assignor to Dunlop Rubber Company, Limited, Birmingham, England. Making a rubber article. 1,945,055; Jan. 30.

Madrak, Frank, Duryea, Pa. Fishing tackle accessory unit. 1,945,446; Jan. 30.

Mallory, P. R., & Co. (See Lear, W. P., and Nulsen, assignors.)

Manley Automatic Co., The. (See Manley, Job R., assignor.)

Manley, Job R., East Liverpool, assignor to The Manley Automatic Co., Youngstown, Ohio. Carbonator. 1,945,489; Jan. 30.

Mann, Oscar F., Indianapolis, Ind. Safety razor. 1,945,117; Jan. 30.

Mannington Mills, Incorporated. (See Karpf, Charles O., assignor.)

Mantle Lamp Company of America, The. (See Schwarz, Eugene, assignor.)

Mapes Consolidated Manufacturing Company. (See Coil, W. D., and De Reamer, assignors.)

Mapes Consolidated Manufacturing Company. (See Wilson, Frank D., assignor.)

Marchal, Pierre E. A., Paris, France. Machine for drilling, screwing, and tapping. 1,945,326; Jan. 30.

Marden, William L., Elmhurst, assignor to Neptune Meter Company, New York, N. Y. Meter gear housing. 1,945,056; Jan. 30.

Marsh, Charles W., Muskegon, Mich. Piston. 1,945,151; Jan. 30.

Marsh, Charles W., Muskegon, Mich. Piston. 1,945,152; Jan. 30.

Marsh, Charles W., Muskegon, Mich. Piston. 1,945,153; Jan. 30.

Martin, Jesse C., jr., San Francisco, Calif., assignor to Walworth Patents Inc., Boston, Mass. Plug cock. Re19,068; Jan. 30.

Martindell, Frank, Western Springs, assignor, by mesne assignments, to H. B. Dilkes, Wilmette, Ill. Film holding device. 1,945,493; Jan. 30.

Maslo, William P., Reading, Pa. Support for exercising balls. 1,945,440; Jan. 30.

Mason, Howard, Saxonville, Mass. Pile fabric loom. 1,945,057; Jan. 30.

Mathieson Alkali Works, Inc., The. (See Savell, Walter L., assignor.)

Mazzini, Franco, assignor to Società Italiana Ernesto Breda per Construzioni Meccaniche, Milan, Italy. Aircraft covering. 1,944,990; Jan. 30.

McAleer, William S. (See Bradford, J. D., and McAleer.)

McCann, Thomas A., East Orange, N. J., assignor to American Telephone and Telegraph Company. Two-way telegraph system. 1,944,991; Jan. 30.

McCaskey, Perry A. (See Gluck, F. C., and McCaskey.)

McConnaughay, Kenneth E., assignor to PreCote Corporation, Indianapolis, Ind. Apparatus for preparing paving material. 1,945,058; Jan. 30.

McCormick, Frank H., and G. L. Schwartz, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Impregnated paper product. 1,944,907; Jan. 30.

McKee, Joseph, Norwood, assignor, by mesne assignments, to Union Sandpaper Company, Boston, Mass. Abrasive article. 1,944,898; Jan. 30.

McKinley, John P., Buffalo, N. Y. Washing machine for milk cans. 1,945,059; Jan. 30.

McNeill, Frederick, assignor, by mesne assignments, to T. W. McNeill, Chicago, Ill., doing business as Boiler Room Improvement Co. Liquid level indicator. 1,944,943; Jan. 30.

McNeill, T. W. (See McNeill, Frederick, assignor.)

McPherson, Lewie W., Carrollton, Ga. Attachment for machine guns. 1,945,154; Jan. 30.

McQuade, Walter. (See Smolnk, G., and McQuade.)

McQuade, Walter, Port Washington, assignor to Johns-Manville Corporation, New York, N. Y. Making structural unit. 1,945,004; Jan. 30.

McVay, James C., Plattsmouth, and H. H. Urbach, Lincoln, Nebr. Floating driving bushing for locomotives. 1,945,060; Jan. 30.

McVicker, Hector, and E. F. Bearce, assignors to The Chillicothe Paper Company, Chillicothe, Ohio. Paper machine and handling the trim from the paper machine wire. 1,945,118; Jan. 30.

Medart, Fred, Manufacturing Co. (See Albach, Frank, assignor.)

Megroz, Roger, Bronxville, N. Y., assignor to J. Ottarsh, New York, N. Y. Textile fabric or similar article. Des. 91,452; Jan. 30.

Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)

Merrill, Albert D., Watertown, N. Y. Treatment of digester liquors. 1,945,504; Jan. 30.

Merrimac Chemical Co. Inc. (See Wilson, William S., assignor.)

Metcalf, Edgar E., Moville, Iowa, assignor to Deere & Company, Moline, Ill. Corn picker. 1,945,119; Jan. 30.

Michigan Wire Goods Company. (See Smith, Benjamin H., assignor.)

Midland Steel Products Company. (See Crowe, James H., assignor.)

Midland Steel Products Company, The. (See Riemenschneider, Ernest, assignor.)

Midland Steel Products Company. (See Thoms, Rudolph H., assignor.)

Miller, Ernest B., assignor, by mesne assignments, to C. F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md. Safety device for refrigeration systems. 1,944,899; Jan. 30.

Miller, Ernest B., assignor, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md. Damper valve. 1,944,900; Jan. 30.

Miller, Ernest B., assignor, by mesne assignments, to The Silica Gel Corporation, Baltimore, Md., C. F. Hockley, receiver. Air conditioning system. 1,945,441; Jan. 30.

Miller, John M., and G. F. Fenton, assignors to The Progressive Ring Company, Providence, R. I. Bracelet or similar article of jewelry. Des. 91,450 Jan. 30.

Miller, Samuel C., Louisville, Ky. Air conditioner. 1,944,992; Jan. 30.

Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Electrical precipitation. 1,945,061; Jan. 30.

Miller, Thomas W., Ashland, assignor to The Worthington Ball Company, Elyria, Ohio. Golf ball. 1,945,062; Jan. 30.

Miller, Walter C., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. Des. 91,436; Jan. 30.

Minerva Wax Paper Company. (See Gluck, F. C., and McCaskey, assignors.)

Mock, Frank C., Chicago, Ill., and C. J. Gustafson, and M. E. Chandler, assignors to Bendix Stromberg Carburetor Company, South Bend, Ind. Carburetor. 1,945,199; Jan. 30.

Mock, Frank C., East Orange, N. J., assignor to Bendix Stromberg Carburetor Company, South Bend, Ind. Carburetor. 1,945,200; Jan. 30.

Mock, Henri L., Cleveland, Ohio. Eyecup. 1,944,901; Jan. 30.

Monitor Controller Company. (See Whittingham, George H., assignor.)

Monroe, Leo M., Cleveland Heights, Ohio. Oil cooler. 1,945,287; Jan. 30.

Monstanto Chemical Company. (See Bertsch, J. A. and Krause, assignors.)

Monstanto Chemical Company, The. (See Carswell, T. S., Stehlby, and Alozerij, assignors.)

Monsanto Chemical Company. (See Clemmensen, Erik, assignor.)

Moone, Albert E. F., assignor to Orenda Corporation, Chicago, Ill. Cutting mechanism. 1,945,063; Jan. 30.

Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Con. Hood catch. 1,945,155; Jan. 30.

Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Hood catch. 1,945,156; Jan. 30.

Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Hood catch. 1,945,157; Jan. 30.

Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Hood catch. 1,945,158; Jan. 30.

Morell, Pascal J., assignor to The American Brass Company, Waterbury, Conn. Zinc base alloy. 1,945,288; Jan. 30.

Morgan, Edmund C., by O. E. Morgan, executrix, New York, N. Y., assignor to American Morgan Company. Mine car loading apparatus. 1,944,993; Jan. 30.

Morgan, Olive E., executrix. (See Morgan, Edmund C.)

Morse, Willis B., Washington, D. C. Combined tongue depressor and electrode for electrocoagulation of tonsils. 1,945,327 Jan. 30.

Mosebach, Karl J., Pittsburgh, Pa. Rail bond and applying the same. 1,945,404; Jan. 30.

Mosslang, Hans, and H. Volbehr, Munich, Germany, assignors to Shell Development Company, San Francisco, Calif. Transportable apparatus for applying bituminous coverings, particularly to canal walls and the like inclined surfaces. 1,945,065; Jan. 30.

Moto Meter Gauge & Equipment Corporation. (See Wardenburg, Bernhard G., assignor.)

Murch, Wilfred M., Hamburg, assignor to National Aniline and Chemical Company, New York, N. Y. Production of pyranthrone dyestuffs. 1,945,405; Jan. 30.

Murtaugh, Joseph P., assignor to American Manganese Steel Company, Chicago Heights, Ill. Excavating implement. 1,945,064; Jan. 30.

Naamlooze Vermootschap de Bataafsche Petroleum Maatschappij. (See Hofsäss, Max, assignor.)

Naftzger, Florence H., Sioux City, Iowa. Window fixture. 1,945,356; Jan. 30.

Nasmith, John W., Heaton Mersey, Manchester, England. Combing machine. 1,944,944; Jan. 30.

National Aniline and Chemical Company. (See Murch, Wilfred M., assignor.)

National Automatic Tool Company. (See Galloway, Robert M., assignor.)

National Malleable and Steel Casting Company. (See Bazeley, Arthur J., assignor.)

National Malleable and Steel Castings Company. (See Schmidt, Ernest H., assignor.)

Nehls, Charles H., Detroit, Mich., assignor, by mesne assignments, to Eaton Detroit Metal Company, Cleveland, Ohio. Hub cap and locking means therefor. 1,944,945; Jan. 30.

Neighbour, Leonard B. (See Swanson, S. S. and Neighbour.)

Nelson, Herman, Corporation, The. (See Shurtleff, Wilfred, assignor.)

Nepple, Henry, assignor to W. J. Pearson, Los Angeles, Calif. Clutching device. 1,944,994; Jan. 30.

Neptune Meter Company. (See Marden, William L., assignor.)

Neuland, Alfons H., Irvington, N. J., assignor, by mesne assignments, to Electrogear Corporation. Automatic power transmission. Re19,065; Jan. 30.

Neuland, Alfons H., Irvington, N. J., assignor, by mesne assignments, to Electrogear Corporation. Electric system for vehicles. Re19,066; Jan. 30.

Niagara Machine and Tool Works. (See Lindgren, Bror J., assignor.)

Nicolatos, Alexandros, New York, N. Y. Aeroplane. 1,945,289; Jan. 30.

Nielsen, Earl M., Point Loma, Calif. Can. Des. 91,437; Jan. 30.

Nielsen, Emanuel, assignor to Hamilton Beach Manufacturing Company, Racine, Wis. Motor controller. 1,945,066; Jan. 30.

Nolan, Frederick, Wichita, Kans. Water wheel or motor. 1,945,373; Jan. 30.

Nord, Gustav J., Gastonia, N. C. Rayon fiber and treating the same. 1,945,330; Jan. 30.

Nordquist, Anton G. E., Denver, Colo. Static eliminator and ink drier for printing presses. 1,944,946; Jan. 30.

Nordstrom, Sven J., Piedmont, assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,944,995; Jan. 30.

Noyes, Charles V., Geneva, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Fishline guide. 1,945,068; Jan. 30.

Nozicka, Franz, assignor to the firm Vereinigte Chemische Fabriken Kreidl, "Heller & Co.", Vienna, Austria. Photochemical oxidation of organic and inorganic compounds. 1,945,067; Jan. 30.

Nudelman, Charles S., and H. Kruglick, Chicago, Ill. Hanger for draperies. 1,945,228; Jan. 30.

Nulsen, Marvin E. (See Lear, W. P., and Nulsen.)

Obergfell, Paul. (See Grotę, W., and Obergfell, assignors.)

Oberphos Company, The. (See Pagon, William W., assignor.)

Oglesby, David E. (See Willis, Elijah J., assignor.)

Ohio Electric Mfg. Co., The. (See Sauer, Henry W., assignor.)

Oil Corporation of America. (See Darlington, Homer T., assignor.)

Oldham, Anthus D., assignor to Indiana Limestone Company, Bedford, Ind. Combined stone surfacing and sawing machine. 1,945,490; Jan. 30.

Oltarsh, J. (See Megroz, Roger, assignor.)

Orenda Corporation. (See Moone, Albert E. F., assignor.)

Osse, Johannes A. F., Sheldon, Iowa. Device for spreading and enlarging motor pistons. 1,944,947; Jan. 30.

Otto, Ferdinand P., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. Des. 91,438; Jan. 30.

Page, Walter, Searsdale, and J. M. McClatchie, assignors to The Borden Company, New York, N. Y. Sealing means for can filling units. 1,945,290; Jan. 30.

Pagon, William W., assignor, by mesne assignments, to The Oberphos Company, Baltimore, Md. Converting apparatus. 1,945,229; Jan. 30.

Pahlke, Elmer W. (See Small, J. W., and Pahlke.)

Palmer, John M., Los Angeles, Calif. Tool holder. 1,945,291; Jan. 30.

Palmer, John M., Los Angeles, Calif. Tool holder. 1,945,292; Jan. 30.

Papaefthemeou, Demetrios, Richmond, N. Y. Piston assembly. 1,945,374; Jan. 30.

Paulding, John L., Inc. (See Johnson, Frank E., assignor.)

Paxton Credit Corporation. (See Paxton, Hale, assignor.)

Paxton, Hale, Redlands, assignor to Paxton Credit Corporation, Sanger, Calif. Crate making machine. 1,945,120; Jan. 30.

Paxton, Worthen. (See Bel Geddes, N., and Paxton.)

Pazandak, Louis A., Minneapolis, Minn. Box lid holder. 1,945,375; Jan. 30.

Peake, John G., assignor to Timbrol Limited, Rhodes, near Sydney, New South Wales, Australia. Extraction of phenols. 1,945,376; Jan. 30.

Pearce, William L., Houston, Tex. Drill. 1,945,159; Jan. 30.

Pearce, William L., Houston, Tex. Drill. 1,945,160; Jan. 30.

Pearson, Erick, Minneapolis, Minn. System for automatic parallel coupling of synchronous alternating current machines. 1,944,996; Jan. 30.

Pearson, Erick, Minneapolis, Minn. Synchronizer. 1,945,494; Jan. 30.

Pearson, William J. (See Brown, Thomas L., assignor.)

Pearson, William J. (See Nepple, Henry, assignor.)

Pennsylvania Railroad Company, The. (See Walker, Samuel G., assignor.)

Periolat, Charles B., Chicago, Ill. Sharpening razor blades. 1,945,201; Jan. 30.

Perkins, Joseph M., Eastland, Tex. Disposing of nuisance liquids. 1,945,328; Jan. 30.

Pestarini, Joseph M., Paris, France. Control of electric motors. 1,945,447; Jan. 30.

Peters, Adolph M. (See Freudenberg, Gotthard, assignor.)

Petterson, Victor. (See Hillstrom, A. F., and Petterson.)

Pettibone, Walter W., Erie, Pa. Feeder for pulverized materials. 1,944,902; Jan. 30.

Philips, N. V., Gloeilampenfabrieken. (See Holst, G., and Tellegen, assignors.)

Phillips, Charles L., and I. M. Upperco, New York, N. Y., assignors to Whirlpool Incorporated. Game of skill. 1,944,997; Jan. 30.

Phillips Petroleum Company. (See Buell, Albert E., assignor.)

Piazza, Louis C., Western Springs, assignor to Soundex Corporation, Chicago, Ill. Tie bracket. 1,945,161; Jan. 30.

Pierce, Harold S., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Chain. 1,945,357; Jan. 30.

Pierce, Ralph H., Eugene, Oreg. Pipe joint. 1,945,293; Jan. 30.

Pike, Robert D., Diablo, H. J. Stevenson, Oakland, and O. M. Eash, Berkeley, assignors to Kalif Corporation, Emeryville, Calif. Manufacturing and testing bearings. 1,945,294; Jan. 30.

Pink, Berry. (See Dunham, Charles L., assignor.)

Pointon, John E., Peterborough, assignor to Baker Perkins, Limited, London, England. Washing machine. 1,945,442; Jan. 30.

Pollack, Lazarus W. (See Lorenz, W., and Pollack.)

Pond, Frank M., Houston, Tex. Machine for picking cotton., 1,944,998; Jan. 30.

Poole, Arthur F., assignor to Poole Manufacturing Co., Inc., Ithaca, N. Y. Clock. 1,945,069; Jan. 30.

Poole Manufacturing Co. (See Poole, Arthur F., assignor.)

Pooley, Frederick W., Philadelphia, Pa. Brake control mechanism. 1,945,070; Jan. 30.

Popp, Harry E., York, Pa. Hydraulic turbine. 1,945,071; Jan. 30.

Porcelier Manufacturing Company. (See Tauber, Hyman, assignor.)

Porter-Cable Machine Company, The. (See Emmons, Arthur N., assignor.)

Posnack, Emanuel R., assignor of one-half to C. B. Goodstein, Brooklyn, N. Y. Stapling machine. 1,945,377; Jan. 30.

Potter, William W., Pawtucket, R. I. Plumbing fixture. Des. 91,439; Jan. 30.

Poultney, Samuel V., Harrow Weald, assignor to Energen Foods Company Limited, Willesden, England. Machine for rolling and cutting dough or the like plastic substances. 1,945,443; Jan. 30.

Powell, Alfred R., Elizabeth, N. J., assignor to The Koppers Company of Delaware. Removal of naphthalene and gum-forming constituents from gas. 1,944,903; Jan. 30.

Powerplus (1927) Limited. (See Eyston, George E. T., assignor.)

Pranger, Louis H., Racine, Wis. Railway crossing gate. 1,945,295; Jan. 30.

Pre Cote Corporation. (See McConnaughay, Kenneth E., assignor.)

Preston, Herbert E., assignor to American Engineering Company, Philadelphia, Pa. Stoker tuyère. 1,944,948; Jan. 30.

Price, Bethel E., Charleston, W. Va. Quilting frame. 1,945,329; Jan. 30.

Prieto, Enrique F., Barcelona, Spain. Seal for securing wire and cord. 1,945,448; Jan. 30.

Production Engineering Company. (See Fournier, Emmanuel J., assignor.)

Progressive Ring Company, The. (See Miller, J. M., and Fenton.)

Prosperity Company, The. (See Cimarik, C. K., and Zimarik, assignors.)

Public. Free use of the. (See Haller, H. L. J., and Schaffer, assignors.)

Quaker Lace Company Incorporated. (See Hooven, Howard D., jr., assignor.)

Quaker Lace Company Incorporated? (See Miller, Walter C., assignor.)

Quaker Lace Company Incorporated. (See Otto, Ferdinand P., assignor.)

Quaker Lace Company Incorporated. (See Waterfield, James, assignor.)

Quaker Lace Company Incorporated. (See Wolf, William, assignor.)

Quigley Company. (See Quigley, Wirt S., assignor.)

Quigley, Wirt S., New York, N. Y., assignor to Quigley Company, Inc. Display apparatus. 1,945,072; Jan. 30.

Raabe, George W., Sioux Falls, S. Dak. Dusting box for thermographic printing. 1,945,231; Jan. 30.

Radio Corporation of America. (See Hansell, Clarence W., assignor.)

Radio Corporation of America. (See Tellegen, Bernardus D. H., assignor.)

Radio Corporation of America. (See Veldhuyzen, Romyn, assignor.)

Radio Frequency Laboratories, Incorporated. (See Farnham, Paul O., assignor.)

Raible, Charles G., Shaker Heights assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Forming chaplets and the like. 1,945,358; Jan. 30.

Railroad Accessories Corporation. (See Deems, Edward M., assignor.)

Railroad Accessories Corporation. (See Lavarack, F. C. and Lundy, assignors.)

Rainbow Light, Inc. (See Machlett, Raymond R., assignor.)

Raith, Jacob L., Petersham, near Sydney, assignor of fifty-one per cent to Automatic Bread Baking Company, Limited, Sydney, New South Wales, Australia. Final molding apparatus for bread rolls and the like. 1,945,073; Jan. 30.

Ralston, Oliver C., and L. Klein, Clarkdale, Ariz., assignors to United Verde Copper Company. Recovery of selenium. 1,945,074; Jan. 30.

Randall, Frederick C. (See Lovesley, A. S., and Randall.)

Rasmussen, Peter, Fresno Calif. Guitar support. 1,945,162; Jan. 30.

Ratkowski, Thomas A., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Latch for dipper doors. 1,944,949; Jan. 30.

Rayburn, Alden G., Sausalito, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation. Power apparatus. 1,944,999; Jan. 30.

Read, Arthur E., Bronx, assignor of one-half to I. J. Henry, Garden City, L. I., N. Y. Squeezing apparatus. 1,944,904; Jan. 30.

Redman, Frank R., Upper Darby, assignor to Resilient Rayons, Inc., Philadelphia, Pa. Making resilient cellulosic textile fibers. 1,945,449; Jan. 30.

Reece Button Hole Machine Company, The. (See Zilinsky, Dave, assignor.)

Regalite, Inc. (See Wehrenberg, George E., assignor.)

Reiser, Herman, Lake Charles, La. Clay product and making the same. 1,945,232; Jan. 30.

Resilient Rayons, Inc. (See Redman, Frank R., assignor.)

Rex Research Corporation. (See Hopkins, Claude C., assignor.)

Rex Research Corporation. (See Ruth, Walter E., assignor.)

Richards, Andrew H. (See Richards, Frank R. and A. H.)

Richards, Frank R. and A. H., Grand Junction, Colo.; said F. R. Richards, assignor to said A. H. Richards. Wire stretcher. 1,945,075; Jan. 30.

Richter, George A., assignor to Brown Company, Berlin, N. H. Refined cellulose fiber. 1,945,202; Jan. 30.

Riebel, Frederick, jr., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Convertible suction cleaner. 1,944,950; Jan. 30.

Rieder, Everette E., Cleveland, Ohio. Skating device. 1,945,331; Jan. 30.

Rieke Metal Products Corporation. (See Rieke, Theodore W., assignor.)

Rieke, Theodore W., Auburn, Ind., assignor to Rieke Metal Products Corporation. Spile for a liquid container. 1,945,495; Jan. 30.

Riemenschneider, Ernest, assignor to The Midland Steel Products Company, Cleveland, Ohio. Making welded axle housings. 1,945,076; Jan. 30.

Riemenschneider, Ernest, assignor to The Midland Steel Products Company, Cleveland, Ohio. Making welded axle housings. 1,945,077; Jan. 30.

Riemenschneider, Ernest, assignor to The Midland Steel Products Company, Cleveland, Ohio. Making axle housings. 1,945,078; Jan. 30.

Riemenschneider, Ernest, assignor to The Midland Steel Products Company, Cleveland, Ohio. Forming axle housings. 1,945,079; Jan. 30.

Robbins, Percy A., Lynn, Mass., assignor to General Electric Company. Temperature indicating device. 1,945,378; Jan. 30.

Roberts, Joseph H., Waterbury, assignor to F. B. Shuster Co., Inc., New Haven, Conn. Fabricating machine for long stock. 1,945,469; Jan. 30.

Robinson, David M., assignor to The Stanley Works, New Britain, Conn. Track support. 1,945,332; Jan. 30.

Roe, William C., assignor to Telkor, Inc., Elyria, Ohio. Speed governing mechanism. 1,945,233; Jan. 30.

Roebling's, John A., Sons Company. (See Sunderland, Charles C., assignor.)

Roesch, Arthur A., assignor to Roesch Enamel Range Company, Belleville, Ill. Air conditioning device. 1,945,379; Jan. 30.

Roesch Enamel Range Company. (See Roesch, Arthur A., assignor.)

Rogers, Reginald D. (See Andrews, C. W., and Rogers.)

Röhm & Haas Company. (See Blackadder, Thomas, assignor.)

Rosenstein, Ludwig, San Francisco, and G. A. Kramer, Oakland, assignors to Shell Development Company, San Francisco, Calif. Recovering the sulphur content of gases. 1,945,163; Jan. 30.

Ross, Justin E., Kansas City, Mo. Cap for tire valve tubes. 1,944,951; Jan. 30.

Rotrtiller Inc. (See Kelsey, Cadwallader W., assignor.)

Roualet, Andre J. E., assignor to Chrysler Corporation, Detroit, Mich. Carburetor. 1,945,462; Jan. 30.

Roualet, Andre J. E., assignor to Chrysler Corporation, Detroit, Mich. Carburetor. 1,945,463; Jan. 30.

Rouge, Frank K., M. B. Steele and E. D. Smith, assignors to Steel and Tubes, Inc., Cleveland, Ohio. Homopolar generator. 1,944,952; Jan. 30.

Rowell, Elijah H., Tampa, Fla. Instrument panel. 1,944,905; Jan. 30.

Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Sprinkler head. 1,945,450; Jan. 30.

Russakov, Jacob I., Chicago, Ill. Washing machine. 1,945,234; Jan. 30.

Russell, G. Occar, Columbus, Ohio. Surgical instrument. 1,945,380; Jan. 30.

Russell, Howard W., Collingswood, N. J. Merchandise storing and displaying cabinet. 1,945,381; Jan. 30.

Ruth, Walter E., assignor to Rex Research Corporation, Toledo, Ohio. Spray gun. 1,945,164; Jan. 30.

Rutherford, Hessie T., Kansas City, Mo. Washing machine. 1,945,444; Jan. 30.

Ryan, Edmund J., and M. H. Kowan, Chicago, Ill. Lavage table. 1,945,081; Jan. 30.

Saco-Lowell Shops. (See Curley, Robert S., assignor.)

Saks, Ira, Cleveland, Ohio. Clutch or transmission plate. 1,945,382; Jan. 30.

Sandeman, Edward K., and F. G. Filby, Aldwych, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Voice operated switching. 1,945,082; Jan. 30.

Sangster, William Peterborough, Ontario, Canada, assignor to De Laval Separator Company, New York, N. Y. Milk pasteurizer. 1,945,333; Jan. 30.

Sankowsky, Nicholas A., Elizabeth, and D. H. Grant, Moorestown, N. J., assignors to Stanco Incorporated. Preparing a colorless household insecticide. 1,945,235; Jan. 30.

Santos, Ernest H., et al. (See Santos, Richard P., assignor.)

Santos, Richard P., Stockton, assignor of one-third to E. E. Tucker, and one-third to E. H. Santos, Stockton, Calif. Automatic release for emergency brakes 1,945,083; Jan. 30.

Sauer, Henry W., South Euclid, assignor to The Ohio Electric Mfg. Co., Cleveland, Ohio. Magnetic toy. 1,945,383; Jan. 30.

Savell, Walter L., Forest Hills, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Refining petroleum oil. 1,945,121; Jan. 30.

Schaffer, Paul S. (See Haller, H. L. J., and Schaffer.)

Schauer, Lawrence L., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Oakley, Ohio. Indexible multiple spindle head for drilling machines. 1,945,084; Jan. 30.

Schellentrager, Eugene W., Shaker Heights, Ohio. Door removing and replacing device. 1,945,085; Jan. 30.

Schiske, Rudolf, Vienna, Austria. Liquid level gauge. 1,945,203; Jan. 30.

Schmidt, Ernest H., Cleveland Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Draft gear. 1,944,953; Jan. 30.

Schmidt, Ernest H., Cleveland Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Coupler attachment for railway vehicles. 1,945,384; Jan. 30.

Schmidt, John G., Camden, N. J. Air brush or paint spray device. 1,945,298; Jan. 30.

Schmidt, Theodore, Galesburg, assignor to Winslow-Boiler and Engineering Company, Chicago, Ill. Electrode device. 1,945,385; Jan. 30.

Schmitt, Frank R., Queens Village, assignor to American Machine & Foundry Company. Heat sealing package. 1,945,086; Jan. 30.

Schrank, Max C., Bridgeton, N. J. Garment. 1,945,451; Jan. 30.

Schüffer, Julius, Essen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Silica brick. 1,945,236; Jan. 30.

Schultz, Joseph. (See Guskea, A. E., Homa, and Schultz.)

Shuster, F. G., Co. (See Roberts, Joseph H., assignor.)

Schwartz, George L. (See McCormick, F. H., and Schwartz.)

Schwartz, George L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Absorbent felt and artificial leather product made therefrom. 1,944,906; Jan. 30.

Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 91,440; Jan. 30.

Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 91,441; Jan. 30.

Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 91,442; Jan. 30.

Scientific Tablet Company. (See Suppiger, G. S., and Alexander, assignors.)

Sechler, William N., Evanston, and S. Goodman, assignors to The Florsheim Shoe Company, Chicago, Ill. Footwear. 1,945,122; Jan. 30.

Seitzinger, William M. (See Avery, T. M., and Seitzinger.)

Selden Company, The. (See Fiedler, F. P., and Jaeger, assignors.)

Selden Company, The. (See Jaeger, Alphons O., assignor.)

Selden Company, The. (See Witzel, Heinrich W., assignor.)

Sharar, Fred H., Williamsport, Pa. Clamp. 1,945,000; Jan. 30.

Sheaffer, W. A., Pen Co. (See Cuthbert, William R., assignor.)

Sheldon, Roy, New York, N. Y. Watch. Des. 91,443; Jan. 30.

Shell Development Company. (See Mösslang, H., and Volbehr, assignors.)

Shell Development Company. (See Rosenstein, L., and Kramer, assignors.)

Shelton, Thomas M., Denver, Colo., assignor to American Gyro Co. Airplane. Des. 91,444; Jan. 30.

Shively, Walter L., East Orange, N. J., assignor to The Koppers Company of Delaware. Treatment of artificial gas. 1,945,001; Jan. 30.

Shoeld, Mark, Mount Lebanon Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware. Treating gas. 1,945,002; Jan. 30.

Shurtleff, Wilfred, assignor to The Herman Nelson Corporation, Moline, Ill. Thermal air conditioning unit. 1,944,908; Jan. 30.

Sidney, Arthur A., Thornton Heath, assignor to Bryce Limited. Fuel injection pump for internal combustion engines. 1,945,452; Jan. 30.

Siegle, Jacob C., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Treating cast hollow ingots. 1,945,087; Jan. 30.

Siegel, S. M. Co. (See Steinhagen, Ewald D., assignor.)

Silberman, Eugen, and J. Stolcz, Oradeamare, Rumania, assignors to Explorotor A. G., Glarus, Switzerland. Fluid pressure rotary engine. 1,945,088; Jan. 30.

Silica Gel Corporation, The. (See Adair, S. T., and Cushing, assignors.)

Silica Gel Corporation, The. (See Miller, Ernest B., assignor.)

Sim, James, Cathcart, Glasgow, assignor to G. & J. Weir, Limited, Glasgow, Scotland. 1,945,204; Jan. 30.

Sinclair Refining Company. (See Isom, Edward W., assignor.)

Singer Manufacturing Company, The. (See Clayton, Andrew B., assignor.)

Sipöcz, Heinrich, Vienna, Austria. Fitting for handles. 1,945,299; Jan. 30.

Sloan, Harry E., Hartford, and G. A. Highberg, West Hartford, assignors to The Cushman Chuck Company, Hartford, Conn. Press actuating mechanism. 1,945,496; Jan. 30.

Slocum, Benjamin A. (See Watkins, T. D., and Slocum.)

Small, James W., and E. W. Pahlke, Chicago, Ill. Automobile trailer. 1,945,089; Jan. 30.

Smiley, Lloyd D., Dayton, Ohio, assignor, by mesne assignments, to Chemipulp Process, Inc., Watertown, N. Y. Paper manufacture. 1,945,205; Jan. 30.

Smith, Benjamin H., assignor to Michigan Wire Goods Company, Niles, Mich. Roaster. 1,945,165; Jan. 30.

Smith, Elberon D., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Cigarette aligning device. 1,945,090; Jan. 30.

Smith, Erasmus. (See Rouge, F. K., Steele, and Smith.)

Smith, Frank. (See Beaver, C. J., Fairfield, and Smith.)

Smith, John W., assignor to The Fafnir Bearing Company, New Britain, Conn. Spring connection. 1,945,237; Jan. 30.

Smolak, George, Somerville, N. J., and W. McQuade, Port Washington, assignors to Johns-Manville Corporation, New York, N. Y. Surfacing of rigid shingles and the like. 1,945,003; Jan. 30.

Sneed, John, assignor to Steeldraulic Brake Corporation, Detroit, Mich. Brake mechanism. 1,945,166; Jan. 30.

Snell, Foster D., Inc. (See Grafton, Corydon M., assignor.)

Snyder, Rudolph M. (See Tranin, S., and Snyder.)

Societe Anonyme des Manufactures des Glazes & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Long, Bernard, assignor.)

Societa Italiana Ernesto Breda per Costruzioni Meccaniche. (See Mazzini, Franco, assignor.)

Sommer, Woldemar S., West Brighton, N. Y. Combination chair and stepladder. 1,945,445; Jan. 30.

Sosa, Augustus M. (See Klausmeyer, D. C., and Sosa.)

Soundex Corporation. (See Plazza, Louis C., assignor.)

Spear, Lawrence Y., New London, assignor to Electric Boat Company, Groton, Conn. Injection engine. 1,945,334; Jan. 30.

Sperry, Edward C., executor. (See Sperry, Elmer A.)

Sperry, Elmer A., by E. G. Sperry, executor, assignor to Sperry Products, Inc., Brooklyn, N. Y. Flaw detector for electrical conductors. 1,944,954; Jan. 30.

Sperry Products, Inc. (See Drake, Harcourt C., assignor.)

Sperry Products, Inc. (See Sperry, Elmer A., assignor.)

Stafford, Caroline M., Portland, Oreg. Pictorial chart. Des. 91,451; Jan. 30.

Stampen, Jacob J., assignor to Babson Manufacturing Corporation, Chicago, Ill. Tent cup. 1,945,386; Jan. 30.

Stanco Incorporated. (See Sankowsky, N. A., and Grant, assignors.)

Standard Electric Time Company. (See Harter, George F., assignor.)

Stanley Works, The. (See Robinson, David M., assignor.)

Stanley Works, The. (See Stowell, Austin L., assignor.)

Statter, Benjamin H. (See Warr, E. H., and Statter.)

Steel and Tubes, Inc. (See Rouge, F. K., Steele, and Smith, assignors.)

Steeldraulic Brake Corporation. (See Sneed, John, assignor.)

Steele, Mabbott B. (See Rouge, F. K., Steele, and Smith.)

Steeneck, Robert, assignor to The Western Union Telegraph Company, New York, N. Y. Signal transmitting apparatus. 1,945,470; Jan. 30.

Stehlby, Ernest T. (See Carswell, Y. S., Stehlby, and Alozerij.)

Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Auxiliary power wheel feed. 1,945,453; Jan. 30.

Steinhagen, Ewald D., Wauwatosa, assignor to S. M. Siegel Co., Milwaukee, Wis. Casting piling. 1,945,167; Jan. 30.

Stephens, Mary A., New Orleans, La. Necktie. 1,945,206; Jan. 30.

Sterner-Rainer, Roland, Heilbronn, Germany, assignor to American Lurgi Corporation, New York, N. Y. Aluminum alloy. 1,945,297; Jan. 30.

Stevenson, Hugo J. (See Pike, R. D., Stevenson, and Eash.)

Stiegler, Oscar M., Los Angeles, Calif. Utility sewing box. 1,945,123; Jan. 30.

Stirlen, Eugene D., and C. D. Geer, assignors to The Engineering and Research Corporation, New Haven, Conn. Timer and system. 1,945,091; Jan. 30.

Stolcz, Julius. (See Silbermann, E., and Stolcz.)

Storer, George B., Detroit, Mich., assignor, by mesne assignments, to Urschel Engineering Company, Toledo, Ohio. Forming axles for automobiles or the like. 1,945,092; Jan. 30.

Stowell, Austin L., assignor to The Stanley Works, New Britain, Conn. Saw set. 1,945,335; Jan. 30.
Strait, Mabel S., Tulsa, Okla. Girdle. 1,945,093; Jan. 30.
Strauss, Joseph B., San Francisco, Calif. Unit building construction. 1,945,124; Jan. 30.
Strezynski, George J., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator bowl. 1,945,336; Jan. 30.
Strickland, Silas A., Detroit, Mich. Taper roller bearing structure. 1,945,094; Jan. 30.
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sumner, George V., Columbia, S. C. Pneumatic picker motion for looms. 1,945,238; Jan. 30.
Sunderland, Charles C., New Brunswick, assignor to John A. Roebling's Sons Company, Trenton, N. J. Reel apparatus and loading reels. 1,945,095; Jan. 30.
Sundermann, H. Henry. (See Klausmeyer, David C.)
Sunnen, Joseph, Kirkwood, Mo. Engine cylinder burnishing device. 1,944,955; Jan. 30.
Suppiger, Gerhart S., and C. Alexander, assignors to Scientific Tablet Company, Bellville, Ill. Dispensing apparatus for dispensing tablets to heaping full containers. 1,945,337; Jan. 30.
Swallen, Lloyd C. (See Bloomfield, G., Swallen, and Crawford.)
Swanson, Starley S., and L. B. Neighbour, assignors to Deere & Company, Moline, Ill. Manure spreader. 1,945,125; Jan. 30.
Takamine Corporation. (See Thompson, Olof, assignor.)
Tanner, Arnold J. (See Andrews, C. S., and Tanner.)
Tanzi, Guido, Brooklyn, N. Y., assignor, by mesne assignments, to B. Filippone & Co. Inc., Passaic, N. J. Macaroni. Des. 91,445; Jan. 30.
Tanber, Hyman, assignor to Porcelier Manufacturing Company, Greensburg, Pa. Lighting fixture. 1,945,168; Jan. 30.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Klaiber, Friedrich, assignor.)
Telkor, Inc. (See Roe, William C., assignor.)
Tellegen, Bernardus D. H. (See Holst, G., and Tellegen.)
Tellegen, Bernardus D. H., Eindhoven, Netherlands, assignor to Radio Corporation of America. Convertible band pass receiver. 1,945,096; Jan. 30.
Terry, Matson C., Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company. Pumping unit for refrigerating apparatus. 1,945,338; Jan. 30.
Thomas, Clifford A., Yakima, Wash. Vegetable cutter. 1,945,239; Jan. 30.
Thomas, Jesse D., St. Petersburg, Fla. Gas producer. 1,945,464; Jan. 30.
Thomas, Leo B., Swampscott, Mass. Rotary engine and pump. 1,944,956; Jan. 30.
Thomas, Paul G., Middlebranch, Ohio. Cigarette. 1,945,207; Jan. 30.
Thomas, Raymond G., U. S. Navy. Bunk. 1,944,909; Jan. 30.
Thompson, Clifford F. (See D'Almaine, H., and Thompson.)
Thompson, Olof, assignor to Takamine Corporation, Long Island City, N. Y. Relay. 1,944,957; Jan. 30.
Thompson, Russell G., and C. W. Crumrine, Rochester, assignors to Electromatic Typewriters, Inc., New York, N. Y. Typewriting machine. 1,945,097; Jan. 30.
Thoms, Rudolph H., assignor to Midland Steel Products Company, Cleveland, Ohio. Making axle housings. 1,945,080; Jan. 30.
Thorburn, Hugh, Toronto, Ontario, Canada. Apparatus for and forming resilient tires. 1,945,098; Jan. 30.
Timbrol Limited. (See Peake, John G., assignor.)
Titanium Alloy Manufacturing Company, The. (See Kinzie, Charles J., assignor.)
Tranin, Samuel, and R. M. Snyder, Kansas City, Mo., said Snyder assignor to said Tranin. Treating food products. 1,945,102; Jan. 30.
Traxel, Charles E., Rome, assignor to General Cable Corporation, New York, N. Y. Wiredrawing machine. 1,945,339; Jan. 30.
Trestrail, Donald T., Tulsa, Okla. Wrapper for neckties. 1,945,099; Jan. 30.
Troll, Frederick J., Towson, Md. Defrosting indicator for mechanical refrigerators. 1,945,100; Jan. 30.
Troy, Edwin F., Jacksonville, Fla. Pipe cleaning device. 1,945,208; Jan. 30.
Trubert, René, Arras (Pas-de-Calais,) France. Remote control device for electric motors. 1,945,345; Jan. 30.
Trustees of Dartmouth College. (See Ames, A., jr., and Gliddon, assignors.)
Tschudin, Ernest, Reinach, near Basel, Switzerland. Manufacture of nitro-cellulose. 1,945,101; Jan. 30.
Tucker, Elmer E., et al. (See Santos, Richard P., assignor.)
Tunica, Harry T., assignor of one-half to R. R. Guthrie, Los Angeles, Calif. Rotary drill bit. 1,945,240; Jan. 30.
Turley, Harold E. (See Keeney, K. P., and Turley.)
Typograph G. m. b. H. (See Blume, Wilhelm, assignor.)
Union Bag and Paper Corporation. (See Avery, T. M., and Seltzinger, assignors.)
Union Sandpaper Company. (See McKee, Joseph, assignor.)
Union Switch & Signal Company, The. (See Loomis, Harold S., assignor.)
United Engineering & Foundry Company. (See Hoy, John E., assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)
U. S. Slicing Machine Company. (See van Berkel, Wilhelmus A., assignor.)
United Verde Copper Company. (See Ralston, O. C., and Klein, assignors.)
Upjohn Company, The. (See Upjohn, Everett C., assignor.)
Upjohn, Everett G., assignor to The Upjohn Company, Kalamazoo, Mich. Container for hypodermic solutions and other medicinal preparations. 1,945,126; Jan. 30.
Uppercu, Ingils M. (See Phillips, C. L., and Uppercu.)
Urbach, Henry H. (See McVay, James C., and Urbach.)
Urschel Engineering Company. (See Storer, George B., assignor.)
Vacher, Nicolas, Moingt, France. Lock for nuts and bolts. 1,945,005; Jan. 30.
Valik, Irene. (See Valik, Ludwig, and I.)
Valik, Ludwig and I. Valik, Charleston, W. Va. Purification of aromatic alcohols. 1,944,958; Jan. 30.
Valik, Ludwig, and I. Valik, New York, N. Y. Manufacture of aromatic alcohols. 1,944,959; Jan. 30.
Vanak Corporation. (See Knee, Aaron A., assignor.)
Van Berkel, Wilhelmus A., Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind. Feeding mechanism for slicing machines. 1,945,127; Jan. 30.
Van Every, S. A. (See Knee, A. A., and Eaton, assignors.)
Vapor Treating Processes, Inc. (See Lachman, Arthur, assignor.)
Vedoe, Anton M., Wollaston, Mass. Fuel regulator. 1,945,387; Jan. 30.
Veldhuyzen, Romyn, Eindhoven, The Netherlands, assignor to Radio Corporation of America. Amplifier arrangement. 1,945,006; Jan. 30.
Vereinigte Chemische Fabriken Kreidl, "Heller & Co." (See Nozicka, Franz, assignor.)
Vernon, Murray, Greenwich, Conn. Loose leaf binder. 1,945,007; Jan. 30.
Verona Chemical Company. (See Glahn, W. H., and Ehrlich.)
Viber Company. (See Gordon, Graham M., assignor.)
Victor Talking Machine Company. (See Whitaker, Alfred, assignor.)
Villard, Marcel, Paris, France. Compensated universal joint. 1,945,209; Jan. 30.
Vis, George A., assignor to Kelvinator Corporation, Detroit, Mich. Evaporator. 1,945,103; Jan. 30.
Voight, Albert, New York, N. Y. Door separator and track for door runways in display cases. 1,945,008; Jan. 30.
Volbehr, Hartwig. (See Mösslang, H., and Volbehr.)
Vollman, Heinrich. (See Kränslein, G., Vollmann, Boedeker, and Becker.)
Waite, Harry F., New York, N. Y. Plate changer. 1,945,241; Jan. 30.
Walker, Gerald M., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Tractor. 1,945,169; Jan. 30.
Walker, Samuel G., Baltimore, Md., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Apparatus for conditioning grain or the like. 1,945,242; Jan. 30.
Wallace, Michael D., McKeesport, Pa. Automatic length controlled sorting machine. 1,945,455; Jan. 30.
Wallis, Lowell D., Bloomington, assignor to Indiana Limestone Company, Bedford, Ind. Stone fluting and molding attachment. 1,945,471; Jan. 30.
Walsh, James A., and N. R. Krause, assignors to J. I. Case Company, Racine, Wis. Harvester. 1,945,009; Jan. 30.
Walther, George, G. A. Baker and H. Baker, assignors to The Dayton Steel Foundry Company, Dayton, Ohio. Interchangeable wheel mounting. 1,945,388; Jan. 30.
Walworth Patents Inc. (See Martin, Jesse C., jr., assignor.)
Ward, Charles E., Odell, Ill. Propulsion device for boats. 1,945,210; Jan. 30.
Wardenburg, Bernhard G., assignor to Moto Meter Gauge & Equipment Corporation, Toledo, Ohio. Indicator. 1,945,456; Jan. 30.
Warner Bros. Pictures, Inc. (See Jackman, Fred W., assignor.)
Warner Electric Brake Corporation. (See Whyte, John, assignor.)
Warr, Edward H., and B. H. Statter, Baltimore, Md. Dry chemical fire extinguisher. 1,945,457; Jan. 30.
Waterbury Holding Corporation. (See Waterbury, James L., assignor.)
Waterbury, James L., Chicago, Ill., assignor to Waterbury Holding Corporation, Cincinnati, Ohio. Electric fan. 1,945,010; Jan. 30.
Waterfield, James, assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. Des. 91,446; Jan. 30.
Watkins, Thomas D., Utica, and B. A. Slocum, Binghamton, N. Y.; said Slocum assignor to said Watkins. Machine for placing paper linings in molds. 1,945,243; Jan. 30.
Watrous, Earl G., Chicago, Ill. Hood attachment and lock for automobiles. 1,945,128; Jan. 30.
Waugh, Rodney E., and L. W. Wile, Tonkawa, Okla. Tear gas gun. 1,945,211; Jan. 30.
Weaver, Clyde E., assignor to Bennett Pumps Corporation, Muskegon, Mich. Pump control. 1,945,011; Jan. 30.
Webb, Christopher F. (See Fishburn, J. E., and Webb.)

Weed, Harry D., Southport, Conn. Making tire chains. 1,945,359; Jan. 30.
Wehtenberg, George E., assignor to Regalite, Inc., Chicago, Ill. Liquid dispenser or the like. Des. 91,447; Jan. 30.
Weickman, Albert, and C. F. Weickman, Harrison, N. Y. Resilient support for seats. 1,945,458; Jan. 30.
Weickman, Charles F. (See Weickman, Albert and C. F.)
Weinder, Frank, et al. (See Lewand, Valentine, assignor.)
Weir, G. & J., Limited. (See Sim, James, assignor.)
Welsburd, Morris J., Brooklyn, N. Y. Footwear. 1,945,012; Jan. 30.
Weller, Burt I. (See Gemeny, B. B., and Weller.)
Wessel, Paul R. A., Burlingame, Calif. Coffee roaster. 1,945,129; Jan. 30.
West, Ernest. (See West, Frederick J. and E.)
West, Frederick J., and E., assignors to West's Gas Improvement Company Limited, Manchester, England. Belt or band conveyer. 1,945,300; Jan. 30.
Western Union Telegraph Company, The. (See Beardsley, Bruce, assignor.)
Western Union Telegraph Company, The. (See Haglund, Hakon H., assignor.)
Western Union Telegraph Company, The. (See Steeneck, Robert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Terry, Matson C., assignor.)
West's Gas Improvement Company. (See West, Frederick J. and E., assignors.)
Wetzel, Frank A., Wauwatosa, Wis. Snow scooter. 1,945,170; Jan. 30.
Wezel, Walter P., Maulhronn, Germany, assignor to Chas. L. Jarvis Company, Inc., Gildersleeve, Conn. Removing the skin from cattle and the like. 1,945,247; Jan. 30.
Whirlpool Incorporated. (See Phillips, C. L., and Uppercu, assignors.)
Whitaker, Alfred, West Drayton, England, assignor to Victor Talking Machine Company. Thermionic valve circuit. 1,945,244; Jan. 30.
Whitaker, Joseph P. (See Fielding, John, assignor.)
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Electric switch. 1,945,459; Jan. 30.
Whyte, John, Beloit, Wis., assignor to Warner Electric Brake Corporation, South Beloit, Ill. Friction device. 1,945,245; Jan. 30.
Wicinski, Adam. (See Witkiewicz, R., and Wininski.)
Wickersham, Elmer E., assignor to Caterpillar Tractor Co., San Leandro, Calif. Harvester. 1,945,497; Jan. 30.
Widmer, Stefan, H. Keller, and M. Hürlimann, assignors to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Electric current rectifying system. 1,945,472; Jan. 30.
Wilcolator Company, The. (See Fonseca, Edward L., assignor.)
Wile, Lyndel W. (See Waugh, R. E., and Wile.)
Williams and Anderson Company, The. (See Koran, William D., assignor.)
Willis, Elijah J., Morehead City, assignor of one-half to David E. Oglesby, Farmville, N. C. Folding crutch. 1,945,460; Jan. 30.
Wilson, Frank D., Chicago, Ill., assignor to Mapes Consolidated Manufacturing Company, Griffith, Ind. Fiber plate. 1,945,013; Jan. 30.
Wilson, Ira H., Montreal, Mo. Guard for mowing and analogous machines. 1,945,301; Jan. 30.
Wilson, William S., Roslindale, assignor to Merrimac Chemical Co. Inc., Boston, Mass. Manufacture of aluminum sulphate. 1,945,171; Jan. 30.
Wilson, William S., assignor to Merrimac Chemical Company, Inc., Boston, Mass. Utilization of sludge acid. 1,945,172; Jan. 30.
Winkler, Alfred, and M. Dünnebier, Neuwied, Germany. Device for removing from a pile of sheets the sheet lowermost at the time. 1,945,248; Jan. 30.
Winslow Boiler and Engineering Company. (See Schmidt, Theodore, assignor.)
Witkiewicz, Roman, and A. Wicinski, Lwow, Poland. Crankless motor-compressor. 1,944,960; Jan. 30.
Witzel, Heinrich W., Ingram, assignor to The Selden Company, Pittsburgh, Pa. Separation of organic dibasic acids. 1,945,246; Jan. 30.
Wolf, William, assignor to Quaker Lace Company Incorporated, Philadelphia, Pa. Lace tablecloth. Des. 91,448; Jan. 30.
Woodbury, Clifford A., Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition and making. 1,944,910; Jan. 30.
Woodruff, Frank O., Newton, assignor, by mesne assignments, to Beckwith Manufacturing Company, Boston, Mass. Artificial leather manufacture. 1,945,173; Jan. 30.
Worthington Ball Company, The. (See Miller, Thomas W., assignor.)
Wrede, Franz, Berlin-Charlottenburg, Germany. Establishing secret communications. 1,945,014; Jan. 30.
Wright Aeronautical Corporation. (See Chilton, Roland, assignor.)
Wurzbach, Hugh E., and C. H. Konold, Magna, Utah. Electromagnetic vibrating apparatus. 1,945,015; Jan. 30.
Youker, Malcolm P., Tulsa, Okla., assignor, by mesne assignments, to The Gray Processes Corporation, Newark, N. J. Apparatus for filtering petroleum vapors. 1,945,249; Jan. 30.
Youngstown Sheet and Tube Company, The. (See Siegle, Jacob C., assignor.)
Zanzi, Albino, Ivrea, Italy. Manufacturing machine parts. 1,945,302; Jan. 30.
Zeder, Fred M., assignor to Chrysler Corporation, Detroit, Mich. Hood and cowl assembly. Des. 91,449; Jan. 30.
Zilinsky, Dave, New York, N. Y., assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole and making the same. 1,945,104; Jan. 30.
Zimarik, Louis. (See Cimarik, C. K., and Zimarik.)
Zook, John S., assignor to Burgess Battery Company, Madison, Wis. Battery hand lamp. 1,945,016; Jan. 30

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF JANUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrasive article. J. McKee. 1,944,898; Jan. 30.
Acetone from ethyl alcohol, Production of. G. Bloomfield, L. C. Swallen, and F. M. Crawford. 1,945,131; Jan. 30.
Acid and benzoates, Production of benzoic. J. E. Demant. 1,945,032; Jan. 30.
Acid process, Contact sulphuric. F. P. Fiedler and A. O. Jaeger. 1,945,267; Jan. 30.
Acid, Purification of succinic. J. A. Bertsch and A. H. Krause. 1,945,175; Jan. 30.
Acid, Utilization of sludge. W. S. Wilson. 1,945,172; Jan. 30.
Acids, Separation of organic dibasic. H. W. Witzel. 1,945,246; Jan. 30.
Aeroplane. C. C. Bittner. 1,945,254; Jan. 30.
Aeroplane. A. Nicolatos. 1,945,289; Jan. 30.
Agricultural implement. E. B. Gustafson. 1,945,311; Jan. 30.
Agricultural implement. C. W. Kelsey. 1,944,937; Jan. 30.
Air conditioner. S. C. Miller. 1,944,992; Jan. 30.
Air conditioning device. A. A. Roesch. 1,945,379; Jan. 30.
Air conditioning system. E. B. Miller. 1,945,441; Jan. 30.
Air conditioning unit, Thermal. W. Shurtleff. 1,944,908; Jan. 30.
Aircraft covering. F. Mazzini. 1,944,990; Jan. 30.
Airplane. T. M. Shelton. Des. 91,444; Jan. 30.
Alcohols, Manufacture of aromatic. L. and I. Valik. 1,944,959; Jan. 30.
Alcohols, Purification of aromatic. L. and I. Valik. 1,944,958; Jan. 30.
Alkoxy derivatives of phosphorus acid chlorides, Manufacture of. E. Clemmensen. 1,945,183; Jan. 30.
Altar. W. D. Koran. 1,944,985; Jan. 30.
Aluminum alloy. R. Sterner-Rainer. 1,945,297; Jan. 30.
Aluminum sulphate, Manufacture of. W. S. Wilson. 1,945,171; Jan. 30.
Ammonia and hydrogen sulphide from gases, Removal of. C. J. Hansen. 1,944,978; Jan. 30.
Amplifier arrangement. R. Veldhuyzem. 1,945,006; Jan. 30.
Angle determining instrument. P. H. Macneil. 1,944,897; Jan. 30.
Antenna. H. H. Hill. 1,944,891; Jan. 30.
Arm clamp and elevating control, Head mounted. D. C. Klausmeyer and A. M. Sosa. 1,945,047; Jan. 30.
Arrows, Device for feathering. C. F. Birchall. 1,945,416; Jan. 30.
Atomizer. P. B. Brown. Des. 91,419; Jan. 30.
Automobile body lock. C. W. Cook. 1,945,257; Jan. 30.
Automobile chassis frame and making same. J. H. Crowe. 1,945,505; Jan. 30.
Axle housings, Forming. E. Riemenschneider. 1,945,079; Jan. 30.
Axle housings, Making. E. Riemenschneider. 1,945,078; Jan. 30.
Axle housings, Making. R. H. Thoms. 1,945,080; Jan. 30.
Axle housings, Making welded. E. Riemenschneider. 1,945,076–7; Jan. 30.
Axles for automobiles or the like, Forming. G. B. Storer. 1,945,092; Jan. 30.
Ball, Golf. T. W. Miller. 1,945,062; Jan. 30.
Band pass receiver, Convertible. D. B. H. Tellegen. 1,945,096; Jan. 30.
Barrel, Tumbling. L. B. Green. 1,945,035; Jan. 30.
Bathtub fixture. M. P. Doyle. 1,945,033; Jan. 30.
Battery hand lamp. J. S. Zook. 1,945,016; Jan. 30.
Bearing for electric motors and the like. J. D. Jones. 1,944,936; Jan. 30.
Bearing structure, Taper roller. S. A. Strickland. 1,945,094; Jan. 30.
Bearings, Manufacturing and testing. R. D. Pike, H. J. Stevenson, and O. M. Eash. 1,945,294; Jan. 30.
Belt front, Apparel. W. Forstner. Des. 91,423; Jan. 30.
Belt Link. J. K. Diamond. 1,945,138; Jan. 30.
Billfold. P. A. Gardner. 1,945,188; Jan. 30.
Binder, Loose leaf. M. Vernon. 1,945,007; Jan. 30.
Bit: *See*—
  Rotary drill bit.
Blower for wet air furnaces. F. I. Jaden. 1,945,223; Jan. 30.
Board: *See*—
  Motor driven surfboard.
Boiler construction. J. A. Ford. 1,945,349; Jan. 30.
Boiler feed system. J. Sim. 1,945,204; Jan. 30.
Bond. E. M. Deems. 1,945,480; Jan. 30.
Book ends. A. F. Gibson. Des. 91,425; Jan. 30.
Boot, Polo. C. F. Lutsche. 1,945,226; Jan. 30.
Borneol from pine oil, Separating. I. W. Humphrey. 1,945,501; Jan. 30.
Bottle, Beer. M. L. Blumenthal. Des. 91,417; Jan. 30.
Bowl, Centrifugal separator. G. J. Strezynski. 1,945,336; Jan. 30.
Box: *See*—
  Match box. Utility sewing box.
Box for thermographic printing, Dusting. G. W. Raabe. 1,945,231; Jan. 30.
Box lid holder. L. A. Pazandak. 1,945,375; Jan. 30.
Bracelet or similar article of jewelry. J. M. Miller and G. F. Fenton. Des. 91,450; Jan. 30.
Bracket: *See*—
  Tie bracket.
Brake control mechanism. F. W. Pooley. 1,945,070; Jan. 30.
Brake for aircraft, Air. H. D. Black. 1,945,214; Jan. 30.
Brake mechanism. J. Sneed. 1,945,166; Jan. 30.
Brake mechanism, Vehicle. N. A. Christensen. 1,944,921; Jan. 30.
Brake tester. W. K. Kingsland. 1,945,278; Jan. 30.
Bread slicing machine. H. J. Criner. 1,945,025; Jan. 30.
Bread, Treatment of. K. P. Keeney and H. E. Turley. 1,945,436; Jan. 30.
Brick Silica. J. Schiffler. 1,945,236; Jan. 30.
Brush or paint spray device, Air. J. G. Schmidt. 1,945,298; Jan. 30.
Brush, Paste feeding. R. L. Cleveland and E. H. Lederer. 1,945,023; Jan. 30.
Bucket, Elevator. B. B. Gemeny and B. I. Weller. 1,944,932; Jan. 30.
Bullet. H. E. G. T. Gerlich. 1,944,884; Jan. 30.
Bunch shaper and bunch moistener for cigar machines. S. Clausen. 1,945,022; Jan. 30.
Bunk. R. G. Thomas. 1,944,909; Jan. 30.
Bushing for locomotives, Floating driving. J. C. McVay and H. H. Urbach. 1,945,060; Jan. 30.
Buttonhole and making the same. D. Zilinsky. 1,945,104; Jan. 30.
Cabinet construction. Z. Chafee. 1,945,020; Jan. 30.
Cabinet, Merchandise storing and displaying. H. W. Russell. 1,945,381; Jan. 30.
Cabinet, Refrigerator. C. G. Frantz. Des. 94,424; Jan. 30.
Cable gripping device. M. Landabl. 1,945,438; Jan. 30.
Cable grips, Method of and apparatus for making. E. E. Kellems. 1,945,195; Jan. 30.
Cable support. F. C. Lavarack and B. A. Lundy. 1,945,488; Jan. 30.
Calculator, Listing. L. P. Crosman. 1,945,027; Jan. 30.
Can. E. M. Nielsen. Des. 91,437; Jan 30.
Cap for paste tubes and the like. T. L. Daniel. 1,944,968; Jan. 30.
Cap for tire valve tubes. J. E. Ross. 1,944,951; Jan. 30.
Car coupler. A. J. Bazeley. 1,945,362; Jan. 30.
Car loading apparatus, Mine. E. C. Morgan. 1,944,993; Jan. 30.
Carbon, Revivifying spent activated. R. G. Davis. 1,945,479; Jan. 30.
Carbonator. J. R. Manley. 1,945,489; Jan. 30.
Carburetor. W. C. Carter. 1,945,179–80; Jan. 30
Carburetor. W. B. Goodman. 1,945,189; Jan. 30.
Carburetor. S. F. Hunt. 1,945,191–2; Jan. 30.
Carburetor. H. A. Johnston. 1,945,316; Jan. 30.
Carburetor. F. C. Mock. 1,945,200; Jan. 30.
Carburetor. F. C. Mock C. J. Gustafson, and M. E. Chandler. 1,945,199; Jan. 30.
Carburetor. A. J. E. Roualet. 1,945,462–3; Jan. 30.
Carrier. G. P. Crutchfield. 1,945,305; Jan. 30.
Carrier handle. A. Anderson. 1,944,868; Jan. 30.
Casing for a telephone index or like article. N. Bel Geddes and W. Paxton. Des. 91,416; Jan. 30.
Catalytic apparatus. A. O. Jaeger. 1,945,353; Jan. 30.
Catch, Hood. R. G. Moore. 1,945,155–8; Jan. 30.
Cellulose and cellulosic material, Esterification of. R. E. Fothergill and F. C. Hahn. 1,945,310; Jan. 30.
Cellulose ethers, Manufacture of. A. S. Leversley and F. C. Randall. 1,944,896; Jan. 30.
Cellulose fiber, Refined. G. A. Richter. 1,945,202; Jan. 30.
Cement composition. L. Lasher. 1,945,149; Jan. 30
Cementitious mixtures, Method of and apparatus for compacting and dewatering. G. M. Gordon. 1,945,145; Jan. 30.
Ceramic shapes, Method and apparatus for making. E. Lux. 1,944,989; Jan. 30.
Chain. H. S. Pierce. 1,945,357; Jan. 30.
Chains, Making tire. H. D. Weed. 1,945,359; Jan 30.
Chair: *See*—
  Folding chair.
Chair and stepladder, Combination. W. S. Sommer. 1,945,445; Jan. 30.
Channel construction for the tops of tanks of vessels. W. G. Bartenfeld. 1,944,915; Jan. 30.
Chaplets and the like, Forming. C. G. Raible. 1,945,358; Jan. 30.

Chart, Pictorial. C. M. Stafford. Des. 91,451; Jan. 30.
Check testing means for check controlled apparatus. A. A. Knee. 1,945,320; Jan. 30.
Cheese product and producing the same. A. K. Epstein and B. R. Harris. 1,945,345; Jan. 30.
Churn. F. B. Akers. 1,945,212; Jan. 30.
Cigarette. P. G. Thomas. 1,945,207; Jan. 30.
Cigarette aligning device. E. D. Smith. 1,945,090; Jan. 30.
Cigar-wrapping device. K. E. Granstedt. 1,944,973; Jan. 30.
Circuit, Thermionic valve. A. Whitaker. 1,945,244; Jan. 30.
Circuits, Coupled. P. O. Farnham. 1,945,427; Jan. 30.
Clamp: *See*—
  Terminal clamp.
Clamp. F. H. Sharar. 1,945,000; Jan. 30.
Clamp for mobile drills, Electric rail. D. C. Klausmeyer. 1,945,048; Jan. 30.
Clay product and making the same. H. Reiser. 1,945,282; Jan. 30.
Clay products, Apparatus for pressing. A. E. Guskea. S. Homa, and J. Schultz. 1,945,399; Jan. 30.
Clays, Revivification of spent. A. E. Buell. 1,945,215; Jan. 30.
Cleaner: *See*—
  Convertible suction cleaner.
Clinical optical mensuration method and instrument. A. Ames, jr., and G. H. Gliddon. 1,944,871; Jan. 30.
Clock. A. F. Poole. 1,945,069; Jan. 30.
Clock, Electric. G. F. Harter. 1,945,272; Jan. 30.
Clutch for tapping attachments. A. G. Lundin. 1,945,053; Jan. 30.
Clutch transmission plate. I. Saks. 1,945,382; Jan. 30.
Clutching device. H. Nepple. 1,944,994; Jan. 30.
Coal and product thereof, Treating. N. R. Landon and E. V. Collins, jr. 1,945,371; Jan. 30.
Coal pinning and breaking machine. A. J. Lafayette, jr. 1,945,322; Jan. 30.
Cock, Plug. J. C. Martin, jr. Re19,068; Jan. 30.
Coil, Apparatus for making an electrical. V. G. Apple. 1,944,870; Jan. 30.
Coin controlled switch. B. Clayton and E. L. Lipp. 1,945,343; Jan. 30.
Comb. S. Goldberg. Des. 91,426; Jan. 30.
Combination lock. W. C. N. Duncan. 1,945,424; Jan. 30.
Combing machine. J. W. Nasmith. 1,944,944; Jan. 30.
Commutators, Method of and apparatus for making. V. G. Apple. 1,944,869; Jan. 30.
Compensated universal joint. M. Villard. 1,945,209; Jan. 30.
Composition of matter and process of treating molten metals. A. H. Davies. 1,945,260; Jan. 30.
Compound tool. H. A. Garrett. 1,945,480; Jan. 30.
Concrete pipe coupling. W. A. Kraner. 1,945,279; Jan. 30.
Condenser: *See*—
  Nursery soap condenser. Power tractor condenser.
Connecting means, Detachable. A. F. Hillstrom and V. Petterson. 1,945,352; Jan. 30.
Construction material. A. C. Fischer. 1,945,308; Jan. 30.
Connection, Pivotal. H. C. Harris. 1,945,369; Jan. 30.
Container: *See*—
  Packaging and display container.
Container for hypodermic solutions and other medicinal preparations. E. G. Upjohn. 1,945,126; Jan. 30.
Control for shock absorbers, Automatic. L. B. Green. 1,945,036; Jan. 30.
Control of electric motors. J. M. Pestarini. 1,945,447; Jan. 30.
Control system. W. O. Lum. 1,944,988; Jan. 30.
Convertible suction cleaner. F. Riebel, jr. 1,944,950; Jan. 30.
Converting apparatus. W. W. Pagon. 1,945,229; Jan. 30.
Conveyer. W. Löbbe. 1,945,324; Jan. 30.
Conveyer, Belt or band. F. J. and E. West. 1,945,300; Jan. 30.
Conveyer system. L. E. Dupuy. 1,945,482; Jan. 30.
Conveyer transfer mechanism. B. Beardsley. 1,945,475; Jan. 30.
Cooler: *See*—
  Oil cooler.
Corn picker. W. J. Coultas. 1,945,364; Jan. 30.
Corn picker. E. E. Metcalf. 1,945,119; Jan. 30.
Cotton, Method of and apparatus for picking. R. S. Curley. 1,945,259; Jan. 30.
Couch or davenport, Folding. W. E. Frank. 1,945,186; Jan. 30.
Coumarin, Purification of crude. E. Clemmensen. 1,945,182; Jan. 30.
Coumarin, Purification of crude. E. Clemmensen. 1,945,184; Jan. 30.
Coupler attachment for railway vehicles. E. H. Schmidt. 1,945,384; Jan. 30.
Coupling: *See*—
  Concrete pipe coupling. Hose coupling.
Coupling of synchronous alternating current machines, System for automatic parallel. E. Pearson. 1,944,996; Jan. 30.
Cowling. W. S. Diehl. 1,944,878; Jan. 30.
Crate making machine. H. Paxton. 1,945,120; Jan. 30.
Crushing mill. M. B. Davis. 1,944,928; Jan. 30.
Crutch, Folding E. J. Willis. 1,945,460; Jan. 30.
Cup: *See*—
  Teat cup.
Current rectifying system, Electric. S. Widmer, H. Keller, and M. Hürlimann. 1,945,472; Jan. 30.
Cushion covering and making same. J. A. Hand. 1,945,038; Jan. 30.
Cutter: *See*—
  Vegetable cutter.
Cutting mechanism. A. E. F. Moone. 1,945,063; Jan. 30.
Damper valve. E. B. Miller. 1,944,900; Jan. 30.
Defrosting indicator for mechanical refrigerators. F. J. Troll. 1,945,100; Jan. 30.
Dehydrorotenone, Preparing. H. L. J. Haller and P. S. Schaffer. 1,945,312; Jan. 30.
Demountable wheel. U. Antoni. 1,945,410; Jan. 30.
Device for removing from a pile of sheets the sheet lowermost at the time. A. Winkler and M. Dünnebier. 1,945,248; Jan. 30.
Diaphragm pump. W. C. Carter. 1,945,181; Jan. 30.
Discharge tube, Electric. R. R. Machlett. 1,945,286; Jan. 30.
Discharge tube, Low voltage. R. R. Machlett. 1,945,285; Jan. 30.
Disk, Obturating. E. Fruhstorfer. 1,945,219; Jan. 30.
Dispenser: *See*—
  Nursery soap dispenser.
Dispenser for cups or the like. P. A. Lobel. Des. 91,435; Jan. 30.
Dispenser or the like, Liquid. G. E. Wehrenberg. Des. 91,447; Jan. 30.
Dispensing apparatus for dispensing tablets to heaping full containers. G. S. Suppiger and C. Alexander. 1,945,337; Jan. 30.
Dispensing package. F. C. Gluck and P. A. McCaskey. 1,945,483; Jan. 30.
Display apparatus. W. S. Quigley. 1,945,072; Jan. 30.
Display device. G. Lake. 1,945,049; Jan. 30.
Doorlatch. S. Brantingson. Des. 91,418; Jan. 30.
Door operating device. Car. E. G. Busse. 1,945,019; Jan. 30.
Door removing and replacing device. E. W. Schellentrager. 1,945,085; Jan. 30.
Door separator and track for door runways in display cases. A. Voigt. 1,945,008; Jan. 30.
Draft attachment for furnaces and the like. G. H. Klippel. 1,944,984; Jan. 30.
Draft gear. E. H. Schmidt. 1,944,953; Jan. 30.
Drill. W. L. Pearce. 1,945,159–60; Jan. 30.
Dyestuff preparation. A. Hagenböcker and R. Brune. 1,945,484; Jan. 30.
Dyestuffs of the anthraquinone-acridone series and preparing them, Vat. G. Kränzlein, H. Vollmann, H. Boedeker, and H. Becker. 1,944,986; Jan. 30.
Dyestuffs, Production of pyranthrone. W. M. Murch. 1,945,405; Jan. 30.
Ear protector. A. Gordon. 1,945,110; Jan. 30.
Earth boring apparatus. A. H. Collins. 1,945,258; Jan. 30.
Elastic exercising device. J. H. Brunk. 1,945,134; Jan. 30.
Electric elevation. J. R. Jackson, jr. 1,945,502; Jnn. 30.
Electric switch. W. A. Atwood. 1,945,389; Jan. 30.
Electric switch. F. E. Johnson. 1,945,487; Jan. 30.
Electric switch. G. H. Whittingham. 1,945,459; Jan. 30.
Electric system for vehicles. A. H. Neuland. Re19,066; Jan. 30.
Electrical precipitation. S. P. Miller. 1,945,061; Jan. 30.
Electrode device. T. Schmidt. 1,945,385; Jan. 30.
Electrode, Surgical. J. P. Farnham and C. C. Bishop. 1,945,140; Jan. 30.
Electromagnetic vibrating apparatus. H. E. Wurzbach and C. H. Konold. 1,945,015; Jan. 30.
Elevator control system. J. H. Borden. 1,945,392; Jan. 30.
Embalmer's apparatus. J. E. Brown. 1,945,419; Jan. 30.
Enameling composition. C. J. Kinzie. 1,944,938; Jan. 30.
Engine: *See*—
  Injection engine. Rotary engine.
Engine and pump, Rotary. L. B. Thomas. 1,944,956; Jan. 30.
Engine cylinder burnishing device. J. Sunnen. 1,944,955; Jan. 30.
Envelope. E. W. Hayes. 1,944,980; Jan. 30.
Esters and preparing same. G. D. Graves. 1,944,887; Jan. 30.
Esters, Continuous process for producing. T. S. Carswell, E. T. Stehlby, and N. J. G. Alozerij. 1,945,177; Jan. 30.
Esters of ethylene dicarboxylic acids, Polymerization of. H. B. Dykstra. 1,945,307; Jan. 30.
Evaporating apparatus. H. Leithäuser. 1,945,281; Jan. 30.
Evaporator. G. A. Vis. 1,945,103; Jan. 30.
Excavating implement. J. P. Murtaugh. 1,945,064; Jan. 30.
Explosive, Blasting. W. de C. Crater. 1,945,344; Jan. 30.
Explosive composition and method of making. C. A. Woodbury. 1,944,910; Jan. 30.
Extensible table. P. A. Arsenault. 1,945,213; Jan. 30.
Extrusion press. J. E. Hoy. 1,944,982; Jan. 30.
Eyecup. H. L. Mock. 1,944,901; Jan. 30.
Eye mechanism for dolls. W. Lorenz and L. W. Pollack. 1,945,150; Jan. 30.
Fabricating machine for long stock. J. H. Roberts. 1,945,469; Jan. 30.

Fan, Electric. J. L. Waterbury. 1,945,010; Jan. 30.
Fastener for bracelets adjustable in size. R. Einsele. 1,945,266; Jan. 30.
Fastening means for furniture. C. W. and F. L. Koch. 1,945,197; Jan. 30.
Fats, Manufacture of edible. B. Behrend. 1,944,962; Jan. 30.
Feathers, Apparatus for cleaning and sterilizing. F. I. Klayman and F. R. Lawrence. 1,945,296; Jan. 30.
Feed mechanism, Cam controlled hydraulic. R. M. Galloway. 1,945,034; Jan. 30.
Feeder for pulverized materials. W. W. Pettibone. 1,944,902; Jan. 30.
Feeding mechanism for slicing machines. W. A. van Berkel. 1,945,127; Jan. 30.
Felt and artificial leather product made therefrom, Absorbent. G. L. Schwartz. 1,944,906; Jan. 30.
Fiber plate. F. D. Wilson. 1,945,013; Jan. 30.
Film holding device. H. B. Dilkes. 1,945,481; Jan. 30.
Film holding device. F. Martindell. 1,945,493; Jan. 30.
Filtering apparatus. M. Lamort. 1,945,491; Jan. 30.
Fire extinguisher, Dry chemical. E. H. Warr and B. H. Statter. 1,945,457; Jan. 30.
Fire extinguishing apparatus, Automatic. E. A. Lowe. 1,945,284; Jan. 30.
Fishing tackle accessory unit. F. Madrak. 1,945,446; Jan. 30.
Fitting for handles. H. Sipöcz. 1,945,299; Jan. 30.
Flaw detector. H. C. Drake. 1,944,930; Jan. 30.
Flaw detector for electrical conductors. E. A. Sperry. 1,944,954; Jan. 30.
Floor covering. C. O. Karpf. Des. 91,431–2; Jan. 30.
Flour, Prepared cake. J. Finkel. 1,944,881; Jan. 30.
Flour, Producing. J. Finkel. 1,944,880; Jan. 30.
Flour product and making the same, Baked. A. K. Epstein and B. R. Harris. 1,945,346; Jan. 30.
Foils of gold or other metal or of different metals, Electrolytic production of embossing. J. Fichtmueller. 1,945,142; Jan. 30.
Folding chair. W. W. Boardman. 1,945,018; Jan. 30.
Food products, Treating. S. Tranin and R. M. Snyder. 1,945,102; Jan. 30.
Footwear. W. N. Sechler and S. Goodman. 1,945,122; Jan. 30.
Footwear. M. J. Weisburd. 1,945,012; Jan. 30.
Form for concrete construction, Permanent. W. B. Davenport. 1,945,030; Jan. 30.
Formaldehyde condensation product. R. A. Jacobson. 1,945,315; Jan. 30.
Frame: *See*—
Quilting frame.
Fraud preventive device for check controlled apparatus. A. A. Knee. 1,945,319; Jan. 30.
Friction device. J. Whyte. 1,945,245; Jan. 30.
Fuel control device, Automatic. E. L. Fonseca. 1,945,109; Jan. 30.
Fuel regulator. E. L. Baker. 1,945,390; Jan. 30.
Fuel regulator. A. M. Vedoe. 1,945,387; Jan. 30.
Furnace. O. Kelly. 1,945,224–5; Jan. 30.
Furnace for annealing metal sheets by a continuous process. E. Griffiths. 1,944,974; Jan. 30.
Game, Music reading. K. S. Gregg. 1,945,398; Jan. 30.
Game of skill. C. L. Phillips and I. M. Upperco. 1,944,997; Jan. 30.
Garment. M. C. Schrank. 1,945,451; Jan. 30.
Gas holder valve. R. S. Deans. 1,944,969; Jan. 30.
Gas producer. J. D. Thomas. 1,945,464; Jan. 30.
Gas, Treating. M. Shoeld. 1,945,002; Jan. 30.
Gas, Treatment of artificial. W. L. Shively. 1,945,001; Jan. 30.
Gaseous discharge device. L. de Forest. 1,944,929; Jan. 30.
Gaseous mixtures, Separation of. M. Gobert. 1,945,367; Jan. 30.
Gases krypton and xenon from the atmosphere, Apparatus for separating the rare. W. Dennis. 1,945,366; Jan. 30.
Gases, Purifying. S. T. Adair and C. F. Cushing. 1,945,407; Jan. 30.
Gate: *See*—
Railway crossing gate.
Gathering organization for loading machines. E. M. Arentzen. 1,945,340; Jan. 30.
Gauge: *See*—
Liquid level gauge. Saw table gauge.
Gear: *See*—
Draft gear.
Gear and segmental rim for use therein. F. H. Benge. 1,945,415; Jan. 30.
Generator: *See*—
Homopolar generator. Steam generator.
Oscillation generator.
Girdle. M. S. Strait. 1,945,093; Jan. 30.
Glass product and manufacturing sponge-like glass. B. Long. 1,945,062; Jan. 30.
Golf teaching and playing device. R. G. MacDonald. 1,944,942; Jan. 30.
Grain or the like, Apparatus for conditioning. S. G. Walker. 1,945,242; Jan. 30.
Grid actuating device, Bucky. E. S. Flarsheim. 1,945,499; Jan. 30.
Grinding machine. C. H. Gerling. 1,945,396; Jan. 30.
Guard for mowing and analogous machines. I. H. Wilson. 1,945,301; Jan. 30.
Guide, Fish line. C. V. Noyes. 1,945,068; Jan. 30.
Guide for webs, Automatic. W. T. Armstrong. 1,945,411; Jan. 30.
Guitar support. P. Rasmussen. 1,945,162; Jan. 30.
Gun, Spray. C. C. Hopkins. 1,945,147; Jan. 30.
Gun, Spray. W. E. Ruth. 1,945,164; Jan. 30.
Gun, Tear gas. R. E. Waugh and L. W. Wile. 1,945,211; Jan. 30.
Guns, Attachment for machine. L. W. McPherson. 1,945,154; Jan. 30.
Hammer mill. W. F. MacGregor and O. M. Geer. 1,945,054; Jan. 30.
Hand abrading machine, Portable. A. N. Emmons. 1,945,425; Jan. 30.
Handle: *See*—
Carrier handle.
Hanger for draperies. C. S. Nudelman and H. Kruglick. 1,945,228; Jan. 30.
Harvester. J. A. Walsh and N. R. Krause. 1,945,009; Jan. 30.
Harvester. E. E. Wickersham. 1,945,497; Jan. 30.
Hat block construction. H. E. Gough. 1,945,368; Jan. 30.
Heat exchanger. T. W. Carraway and B. G. Littlepage. 1,945,394; Jan. 30.
Heat interchanger. J. G. Kaestner. 1,945,402; Jan. 30.
Heat sealing package. F. R. Schmitt. 1,945,086; Jan. 30.
Heater: *See*—
Water heater.
Heater. J. M. Auñero. 1,945,252; Jan. 30.
Heating apparatus. P. G. Brandt. 1,945,418; Jan. 30.
Heating apparatus for internal combustion engines. W. C. Carter. 1,945,178; Jan. 30.
Heating system, Automatic electric hot water. E. H. du Chemin. 1,945,139; Jan. 30.
Heel guard. G. L. Charles. 1,945,420; Jan. 30.
Hoist for trucks, Loading. M. Evoy. 1,945,426; Jan 30.
Holder: *See*—
Box lid holder. Title card holder.
Pastry holder. Tool holder.
Pen holder.
Holder for fountain pens. W. R. Cuthbert. 1,944,927; Jan. 30.
Homopolar generator. F. K. Rouge, M. B. Steele, and E. D. Smith. 1,944,952; Jan. 30
Honing machine, A. M. Johnson. 1,945,045; Jan. 30.
Honing machine. A. M. Johnson and W. M. Fairbairn. 1,945,044; Jan. 30.
Hood and cowl assembly. F. M. Zeder. Des. 91,449; Jan. 30.
Hood attachment and lock for automobiles. E. G. Watrous. 1,945,128; Jan. 30.
Hose coupling. J. R. Heidloff. 1,944,890; Jan. 30.
Hose wrench. E. O. Adams. 1,945,406; Jan. 30.
House front or the like, Club. N. R. Liddle. Des. 91,434; Jan. 30.
Housing for railway car hand brake mechanism. R. W. Burnett. 1,945,363; Jan. 30.
Housing, Meter gear. W. L. Marden. 1,945,056; Jan. 30.
Hub cap and locking means therefor. C. M. Nehls. 1,944,954; Jan. 30.
Hub cap construction. W. H. Farr. 1,945,348; Jan. 30.
Humidifier for carburetors. A. Gazda. 1,945,431; Jan. 30.
Hydrocarbon, Oxidation of mononuclear aromatic. A. O. Jaeger. 1,945,354; Jan. 30.
Hydrocarbons, Cracking. E. W. Isom. 1,945,275; Jan. 30.
Ice cubes, Forming. G. Lange. 1,945,230; Jan. 30.
Igniting device for cigar lighters. J. H. Cohen. 1,944,922; Jan. 30.
Indicator: *See*—
Liquid level indicator.
Indicator. B. G. Wardenburg. 1,945,456; Jan. 30.
Ingots, Treating cast hollow. J. C. Siegle. 1,945,087; Jan. 30.
Injection engine. L. Y. Spear. 1,945,334; Jan. 30.
Inking means for printing mechanism. T. M. Avery and W. M. Seitzinger. 1,945,498; Jan. 30.
Insecticide, Preparing a colorless household. N. A. Sankowsky and D. H. Grant. 1,945,235; Jan. 30.
Instrument panel. E. H. Rowell. 1,944,905; Jan. 30.
Insulating values, Apparatus for testing. F. C. Doble. 1,945,263; Jan. 30.
Iron, Making ductile electrolytic. J. R. Cain. 1,945,107; Jan. 30.
Ironing machine, Gas heated. R. A. Hetzer. 1,945,273; Jan. 30.
Joint: *See*—
Compensated Universal Pipe joint.
joint.
Joints between structural members water tight, Making the. W. G. Bartenfeld. 1,944,914; Jan. 30.
Key and curb box cleanout, Combined service cock. V. E. Beagle. 1,945,304; Jan. 30.
Key milling machine. E. E. Kahl. 1,945,276; Jan. 30.
Knitting machine. P. P. La Montagne and G. H. Froeming. 1,945,227; Jan. 30.
Krypton and xenon from air, Separating. W. Dennis. 1,945,365; Jan. 30.
Laminated bodies, Mechanism for treating. F. H. Benge. 1,945,412; Jan. 30.
Lamp: *See*—
Battery hand lamp. Signal lamp.
Lamp. R. W. Johnson. 1,945,309; Jan. 30.

Latch for dipper doors. T. A. Ratkowski. 1,944,949; Jan. 30.
Layage table. E. J. Ryan and M. H. Kowan. 1,945,081; Jan. 30.
Leaf spring lubricator. S. H. Gallagher. 1,945,187; Jan. 30.
Leather manufacture, Artificial. F. O. Woodruff. 1,945,173; Jan. 30.
Leather, Retanning of chrome. T. Blackadder. 1,945,461; Jan. 30.
Lens for signal lamps. A. H. Handian. 1,945,190; Jan. 30.
Lifting appliance, Transformable. A. and A. Faure. 1,944,972; Jan. 30.
Lighter, Cigar. J. H. Cohen. 1,944,923–5; Jan. 30.
Lighting fixture. H. Tauber. 1,945,168; Jan. 30.
Lipsticks and the like, Apparatus for and process of making. J. M. Camagni. 1,945,255; Jan. 30.
Liquid level gauge. O. L. Ingram. 1,945,042; Jan. 30.
Liquid level gauge. R. Schiske. 1,945,203; Jan. 30.
Liquid level indicator. F. McNeill. 1,944,943; Jan. 30.
Liquid level regulator. J. E. Fowler. 1,945,429; Jan. 30.
Liquids, Disposing of nuisance. J. M. Perkins. 1,945,328; Jan. 30.
Liquids, Treating. W. C. Laughlin. 1,945,051; Jan. 30.
Liquors, Treatment of digester. A. D. Merrill. 1,945,504; Jan. 30.
Lock: *See*—
Automobile body lock. Nut lock.
Combination lock. Thermostat lock.
Lock for nuts and bolts. N. Vacher. 1,945,005; Jan. 30.
Locking device. W. H. Featherstone. 1,945,428; Jan. 30.
Locomotive structure. K. S. Howard. 1,944,893; Jan. 30.
Loom harness operating mechanism. H. I. Emmons. 1,944,971; Jan. 30.
Loom, Pile fabric. H. Mason. 1,945,057; Jan. 30.
Looms, Pneumatic picker motion for. G. V. Sumner. 1,945,238; Jan. 30.
Lubricator: *See*—
Leaf spring lubricator.
Macaroni. G. Tanzi. Des. 91,445; Jan. 30.
Machine and producing wall board. J. Dean. 1,945,306; Jan. 30.
Machine for drilling, screwing, and tapping. P. E. A. Marchal. 1,945,326; Jan. 30.
Machine for facilitating the stringing of lawn tennis and like rackets. W. E. B. Jaffe. 1,945,043; Jan. 30.
Machine for folding and feeding book signatures. R. C. Baker. 1,945,253; Jan. 30.
Machine for picking cotton. F. M. Pond. 1,944,998; Jan. 30.
Machine for placing paper linings in molds. T. D. Watkins and B. A. Slocum. 1,945,248; Jan. 30.
Machine for rolling and cutting dough or the like plastic substances. S. V. Poultney. 1,945,443; Jan. 30.
Machine parts, Manufacturing. A. Zanzi. 1,945,302; Jan. 30.
Magnetic interrupter. W. P. Lear and M. E. Nulsen. 1,944,940; Jan. 30.
Manure spreader. S. S. Swanson and L. B. Neighbour. 1,945,125; Jan. 30.
Margarine with improved flavor and process. A. K. Epstein and B. R. Harris. 1,945,347; Jan. 30.
Match box. E. B. Hamilton. 1,944,977; Jan. 30.
Material sampling system. J. D. Bradford and W. S. McAleer. 1,944,963; Jan. 30.
Matrix-setting and type-line-casting machine. W. Blume. 1,945,417; Jan. 30.
Measuring instrument or testing device. I. M. Colbeth. 1,944,926; Jan. 30.
Metal planing and like machine tool. A. Hewitt. 1,944,981; Jan. 30.
Metal sheets, Apparatus for treating. E. E. Griffiths. 1,944,975; Jan. 30.
Metals, Apparatus for producing low carbon. H. A. Brassert. 1,945,342; Jan. 30.
Mill: *See*—
Crushing mill. Hammer mill.
Milling machine. E. J. Fournier. 1,945,146; Jan. 30.
Mining machine. M. P. Holmes. 1,945,486; Jan. 30.
Molding apparatus for bread rolls and the like, Final. J. L. Raith. 1,945,073; Jan. 30.
Motor: *See*—
Synchronous motor.
Motor-compressor, Crankless. R. Witkiewicz and A. Wicinski. 1,944,960; Jan. 30.
Motor controller. E. Nielsen. 1,945,066; Jan. 30.
Motor driven surf board. A. V. Hopkins. 1,945,435; Jan. 30.
Motor speed reducer. R. C. Ball. 1,945,361; Jan. 30.
Mounting, Interchangeable wheel. G. Walther, G. A. and H. Baker. 1,945,388; Jan. 30.
Nail stripper, Portable. E. C. Follett and A. W. Heater. 1,945,144; Jan. 30.
Naphthalene and gum-forming constituents from gas, Removal of. A. E. Powell. 1,944,903; Jan. 30.
Necktie. M. A. Stephens. 1,945,206; Jan. 30.
Nitro-cellulose, Manufacture of. E. Tschudin. 1,945,101; Jan. 30.
Nursery soap dispenser. N. S. Hillyard. 1,945,111; Jan. 30.
Nut lock. C. L. Dunham. 1,945,216; Jan. 30.
Nut lock. H. P. Lloyd. 1,945,325; Jan. 30.
Nut warmer. W. W. Kelly. 1,945,196; Jan. 30.
Oil cooler. L. M. Monroe. 1,945,287; Jan. 30.
Oil level switch. J. Kalin. 1,945,317; Jan. 30.
Oil stocks with liquid sulphur dioxide, Treating lubricating. W. Grote and P. Obergfell. 1,945,500; Jan. 30.
Oil vapors, Refining hydrocarbon. H. T. Darlington. 1,944,877; Jan. 30.
Oils, Extraction and dewaxing of lubricating. F. X. Govers. 1,945,350; Jan. 30.
Oils, Lubricating. B. H. Lincoln and A. Henriksen. 1,944,941; Jan. 30.
Oils, Refining hydrocarbon. A. Lachman. 1,945,114; Jan. 30.
Oleo-resinous material and preparing the same. M. Cline. 1,945,421; Jan. 30.
Opener, Can. M. Dahl. 1,945,137; Jan. 30.
Optical light dividing system. D. Daponte. 1,945,029; Jan. 30.
Ore, Smelting sulphide. R. F. Bacon. 1,944,873; Jan. 30.
Ores, Reduction and smelting of. H. A. Brassert. 1,945,341; Jan. 30.
Ores, Reduction of. H. A. Brassert. 1,944,874; Jan. 30.
Ornament retaining device. J. Fielding. 1,945,268; Jan. 30.
Oscillation generation, Ultrashort wave. C. W. Hansell. 1,945,089; Jan. 30.
Oscillations, Amplifying electric. G. Holst and B. D. H. Tellegen. 1,945,040; Jan. 30.
Outsole for shoes. A. G. Legge. 1,945,115; Jan. 30.
Package and preparing the same. W. A. Hughes. 1,945,148; Jan. 30.
Packaging and display container. C. S. Andrews and A. J. Tanner. 1,945,251; Jan. 30.
Packing material for fragile articles. W. D. Coil and W. J. De Reamer. 1,945,024; Jan. 30.
Paper feed mechanism. L. P. Crosman. 1,945,026; Jan. 30.
Paper machine and a method of handling the trim from the paper machine wire. H. McVicker and E. F. Bearce. 1,945,118; Jan. 30.
Paper making. C. I. Goessman. 1,944,886; Jan. 30.
Paper manufacture. L. D. Smiley. 1,945,205; Jan. 30.
Paper product, Impregnated. F. H. McCormick and G. L. Schwartz. 1,944,907; Jan. 30.
Paper, Shelf. E. Karfiol. Des. 91,430; Jan. 30.
Parts moving means. J. Y. Blazek and R. G. Anderson. 1,945,476; Jan. 30.
Pasteurizer, Milk. W. Sangster. 1,945,333; Jan. 30.
Pastry holder. F. D. Gray. 1,945,397; Jan. 30.
Paving material, Apparatus for preparing. K. E. McConnaughay. 1,945,058; Jan. 30.
Pen holder. B. W. Hanle. 1,945,271; Jan. 30.
Petroleum oil, Refining. W. L. Savell. 1,945,121; Jan. 30.
Petroleum residues or the like, Coking heavy. C. W. Andrews and R. D. Rogers. 1,944,872; Jan. 30.
Petroleum vapors, Apparatus for filtering. M. P. Youker. 1,945,249; Jan. 30.
Phenols, Extraction of. J. G. Peake. 1,945,376; Jan. 30.
Photochemical oxidation of organic and inorganic compounds. F. Nosicka. 1,945,067; Jan. 30.
Photographic equipment. G. F. Hogan. 1,945,112; Jan. 30.
Picture, Composite. F. W. Jackman. 1,945,193; Jan. 30.
Piling, Casting. E. D. Steinhagen. 1,945,167; Jan. 30.
Pipe cleaning device. E. F. Troy. 1,945,208; Jan. 30.
Pipe joint. R. H. Pierce. 1,945,298; Jan. 30.
Piston. F. Jardine. 1,944,934–5; Jan. 30.
Piston. C. W. Marsh. 1,945,151–3; Jan. 30.
Piston assembly. D. Papaefthemeou. 1,945,374; Jan. 30.
Pistons, Device for spreading and enlarging motor. J. A. F. Osse. 1,944,947; Jan. 30.
Plate changer. H. F. Waite. 1,945,241; Jan. 30.
Plate cleaning machine, Metal. A. Hormel. 1,945,274; Jan. 30.
Plug: *See*—
Spark plug.
Plumbing fixture. W. W. Potter. Des. 91,439; Jan. 30.
Power apparatus. A. C. Rayburn. 1,944,999; Jan. 30.
Power tractor condenser. W. Dubilier. 1,945,108; Jan. 30
Power transmission, Automatic. A. H. Neuland. Re19,065; Jan. 30.
Power wheel feed, Auxiliary. A. P. Steiner. 1,945,453; Jan. 30.
Press: *See*—
Extrusion press.
Press. A. A. Byerlein. 1,945,176; Jan. 30.
Press actuating mechanism. H. E. Sloan and G. A. Highberg. 1,945,496; Jan. 30.
Pressure apparatus for the drawing mechanism of textile machinery. F. Casablancas. 1,944,965–6; Jan. 30.
Pressure-cup for spray appliances. S. Bramsen. 1,944,920; Jan. 30.
Preventive means for check controlled apparatus, Combined. A. A. Knee. 1,945,318; Jan. 30.
Printing device. R. M. Ducdale. 1,945,264; Jan. 30.
Projectile. H. Gerlich. 1,944,885; Jan. 30.
Projectile propelling apparatus. H. Gerlich. 1,944,883; Jan. 30.
Propulsion device for boats. C. E. Ward. 1,945,210; Jan. 30.
Protector: *See*—
Ear protector.
Pump: *See*—
Diaphragm pump.
Pump. E. Benedek. 1,945,391; Jan. 30.
Pump control. C. E. Weaver. 1,945,011; Jan. 30.
Pump control device. F. L. Badgett. 1,945,105; Jan. 30.

Pump for internal combustion engines, Fuel. A. A. Sidney. 1,945,452; Jan. 30.
Pump for internal combustion engines, Fuel injection. B. Bischof. 1,944,919; Jan. 30.
Pump machine, Rotary. G. E. T. Eyston. 1,945,220; Jan. 30.
Pumping unit for refrigerating apparatus. M. C. Terry. 1,945,338; Jan. 30.
Pyroxylin sheet material. G. E. Alling. 1,945,250; Jan. 30.
Quilting frame. B. E. Price. 1,945,329; Jan. 30.
Radio shield for engines. R. Chilton. 1,945,021; Jan. 30.
Rail bond and applying the same. K. J. Mosebach. 1,945,404; Jan. 30.
Railway crossing gate. L. H. Pranger. 1,945,295; Jan. 30.
Rayon fiber and treating the same. G. J. Nord. 1,945,330; Jan. 30.
Razor blades, Sharpening. C. B. Periolat. 1,945,201; Jan. 30.
Razor, Safety. G. A. Ekstedt. 1,945,265; Jan. 30.
Razor, Safety. J. S. Kennard, jr. 1,945,370; Jan. 30.
Razor, Safety. O. F. Mann. 1,945,117; Jan. 30.
Receptacle. R. R. Fenska. 1,945,141; Jan. 30.
Reel apparatus and method of loading reels. C. C. Sunderland. 1,945,095; Jan. 30.
Regulator: *See*—
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Relay. O. Thompson. 1,944,957; Jan. 30.
Release for emergency brakes, Automatic. R. P. Santos. 1,945,083; Jan. 30.
Remote control device for electric motors. R. Trubert. 1,945,454; Jan. 30.
Ribbon feed. T. I. Brown. 1,944,964; Jan. 30.
Rim for automobiles, Detachable traction. L. J. Davis. 1,945,261; Jan. 30.
Rims, Apparatus for producing segmental. F. H. Benge. 1,945,413; Jan. 30.
Rims, Producing segmental. F. H. Benge. 1,945,414; Jan. 30.
Ring. P. Lambusta. 1,945,280; Jan. 30.
Roaster. B. H. Smith. 1,945,165; Jan. 30.
Roaster, Coffee. P. R. A. Wessel. 1,945,129; Jan. 30.
Roofing and siding element. N. P. Harshberger. 1,945,485; Jan. 30.
Rotary drill bit. H. T. Tupica. 1,945,240; Jan. 30.
Rotary engine, Fluid pressure. E. Silbermann and J. Stolcz. 1,945,088; Jan. 30.
Row maker and coverer, Combined. R. J. Kunderd. 1,944,939; Jan. 30.
Rubber article, Making a. E. W. Madge. 1,945,055; Jan. 30.
Rubber, Deposition of. R. B. F. F. Clarke. 1,945,256; Jan. 30.
Sadiron base and cord support. W. A. Jones. 1,945,194; Jan. 30.
Safety and sealing device for oil and gas wells, Combined. W. A. Ingalls. 1,945,222; Jan. 30.
Safety device for presses and the like. W. L. Macfie. 1,945,116; Jan. 30.
Safety device for refrigeration systems. E. B. Miller. 1,944,899; Jan. 30.
Sander dust hood, Portable. A. G. Decker. 1,945,031; Jan. 30.
Saw set. A. L. Stowell. 1,945,335; Jan. 30.
Saw table gauge. F. Bielaski. 1,944,918; Jan. 30.
Scooter, Snow. F. A. Wetzel. 1,945,170; Jan. 30.
Seal for securing wire and cord. E. F. Prieto. 1,945,448; Jan. 30.
Sealer for cigarette machines, Seam. C. H. Gibson and L. E. Downs. 1,945,433; Jan. 30.
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Sealing means for can filling units. W. Page and J. M. McClatchie. 1,945,290; Jan. 30.
Seat: *See*—
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Secret communication. Establishing. F. Wrede. 1,945,014; Jan. 30.
Selector. H. M. Friendly. 1,945,465; Jan. 30.
Selenium, Recovery of. O. C. Ralston and L. Klein. 1,945,074; Jan. 30.
Sewing machine. A. B. Clayton. 1,945,478; Jan. 30.
Shade, Lamp. E. Schwarz. Des. 91,440–2; Jan. 30.
Shade repair means, Window. E. Blackwell. 1,945,106; Jan. 30.
Shears. W. H. Bergmann. 1,944,917; Jan. 30.
Sheathing and forming same, Corrugated. J. W. Ledeboer. 1,944,895; Jan. 30.
Shield, Automobile bumper. C. Harwood. 1,944,933; Jan. 30.
Shingles and the like, Surfacing of rigid. G. Smolak and W. McQuade. 1,945,003; Jan. 30.
Shock absorber. J. G. Doubleday. 1,944,879; Jan. 30.
Shock absorber. C. H. Kindl. 1,945,046; Jan. 30.
Shock eliminator. J. W. Leighton. 1,945,403; Jan. 30.
Signal lamp. C. H. Larson. 1,945,198; Jan. 30.
Signal transmitting apparatus. R. Steeneck. 1,945,470; Jan. 30.
Skating device. E. E. Rieder. 1,945,331; Jan. 30.
Skin from cattle and the like, Removing the. W. P. Wesel. 1,945,247; Jan. 30.
Slicing machine. G. Freudenberg. 1,945,269; Jan. 30.
Soap dispenser. C. M. Grafton. 1,945,251; Jan. 30.
Sole laying machine. S. J. Finn. 1,944,882; Jan. 30.
Soles, Device for thickening the edge of shoe. E. E. Doane and A. Bowers. 1,945,262; Jan. 30.
Sorting apparatus. W. D. Cockrell. 1,945,395; Jan. 30.
Sorting machine, Automatic length controlled. M. D. Wallace. 1,945,455; Jan. 30.
Spark plug. A. E. Anderson. 1,945,408; Jan. 30.
Spark plug with detachable electrode. A. E. Anderson. 1,945,409; Jan. 30.
Speed governing mechanism. W. C. Roe. 1,945,233; Jan. 30.
Spile for a liquid container. T. W. Rieke. 1,945,495; Jan. 30.
Spindle head for drilling machines, Indexible multiple. L. L. Schauer. 1,945,084; Jan. 30.
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Spring wire collar snubber. W. O. Dailey. 1,945,422; Jan. 30.
Sprinkler head. A. C. Rowley. 1,945,450; Jan. 30.
Squeezing apparatus. A. E. Read. 1,944,904; Jan. 30.
Stapling machine. E. R. Posnack. 1,945,377; Jan. 30.
Static eliminator and ink drier for printing presses. A. G. E. Nordquist. 1,944,946; Jan. 30.
Stave, Barrel. L. T. Baker. 1,945,308; Jan. 30.
Steam generator. H. W. Hoadley. 1,945,313; Jan. 30.
Stoker, Automatic. L. H. Larsen. 1,945,050; Jan. 30.
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Strainer, Pulp. M. Lamort. 1,945,492; Jan. 30.
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Stripper for cigar machine pasters. J. F. Halstead. 1,945,037; Jan. 30.
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Sulphur content of gases, Recovering the. L. Rosenstein and G. A. Kramer. 1,945,163; Jan. 30.
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Guitar support.
Support for exercising balls. W. P. Maslo. 1,945,440; Jan. 30.
Support for seats, Resilient. A. and C. F. Weickman 1,945,458; Jan. 30.
Supporter for garden hose nozzles. A. R. De Pass. 1,945,423; Jan. 30.
Supporting structure for punch presses and the like. B. J. Lindgren. 1,945,282; Jan. 30.
Surgical instrument. G. O. Russell. 1,945,380; Jan. 30.
Surveying instrument M. H. Lewis. 1,945,323; Jan. 30.
Switch: *See*—
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Synchronizing system. F. Klaiber. 1,945,355; Jan. 30.
Synchronizing system. W. A. Knoop. Re19,067; Jan. 30.
Synchronous motor, Reaction type. H. D'Almaine and C. F. Thompson. 1,945,028; Jan. 30.
Table: *See*—
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Tablecloth, Lace. H. D. Hooven, jr. Des. 91,427; Jan. 30.
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Tablecloth, Lace. J. Waterfield. Des. 91,446; Jan. 30.
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Table for slicing machines, Substance supporting. J. Folk. 1,945,143; Jan. 30.
Table top structure. J. W. Beiger. 1,945,130; Jan. 30.
Tamping tool. H. S. Brown. 1,945,132–3; Jan. 30.
Teat cup. J. J. Stampen. 1,945,386; Jan. 30.
Telegraph system. H. H. Haglund. 1,944,888; Jan. 30.
Telegraph system, Two-way. T. A. McCann. 1,944,991; Jan. 30.
Telephone system. R. S. Bailey. 1,944,961; Jan. 30.
Telephone system. H. M. Friendly. 1,945,466–8; Jan. 30.
Telephone system. H. M. Friendly. 1,944,911–12; Jan. 30.
Temperature indicating device. P. A. Robbins. 1,945,378; Jan. 30.
Temperature indication and control. F. E. Beach and A. H. Jenson. 1,945,017; Jan. 30.
Tension in strips of flexible material while being drawn from coils or rolls, Controlling the. C. J. Beaver, T. J. Fairfield, and F. Smith. 1,944,916; Jan. 30.
Tent and the like, Bathing. A. Abraham and R. A. M. Cheek. 1,945,360; Jan. 30.
Terminal. C. H. Chapman. 1,945,393; Jan. 30.
Terminal clamp. J. C. Krueger. 1,945,487; Jan. 30.
Textile fibers, Making resilient cellulosic. F. R. Redman. 1,945,449; Jan. 30.
Textile fibers, Printing of. S. Gassner and H. Berthold. 1,945,221; Jan. 30.
Textile fabric. M. U. Juestrich. Des. 91,428; Jan. 30.
Textile fabric or similar article. R. Megros. Des. 91,452; Jan. 30.
Thermometer. H. Hastings. 1,945,400; Jan. 30.
Thermostat. D. M. Greer. 1,945,434; Jan. 30.
Thermostat lock. A. M. Gets. 1,945,432; Jan. 30.
Ticket issuing machine. J. E. Fishburn and C. F. Webb. 1,945,218; Jan. 30.
Tie bracket. L. C. Piazza. 1,945,161; Jan. 30.
Tie plate. E. H. Bell. 1,945,174; Jan. 30.

Timer and system. E. D. Stirlen and C. D. Geer. 1,945,091; Jan. 30.
Tire construction for track circuit shunting, Resilient. H. S. Loomis. 1,945,283; Jan. 30.
Tires, Apparatus for and process of forming resilient. H. Thorburn. 1,945,098; Jan. 30.
Title card holder. A. A. Knee and P. B. Eaton. 1,945,321; Jan. 30.
Tongue depressor and electrode for electro-coagulation of tonsils. W. B. Morse. 1,945,327; Jan. 30.
Tool: *See*—
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Tool holder. J. M. Palmer. 1,945,291–2; Jan. 30.
Top and holder, Spinning. F. Conti. Des. 91,420; Jan. 30.
Toy. D. W. Fisher. Des. 91,422; Jan. 30.
Toy diving submarine boat. H. H. Dasey. Des. 91,421; Jan. 30.
Toy, Magnetic. H. W. Sauer. 1,945,383; Jan. 30.
Toy telephone. H. D. Allen. 1,945,473; Jan. 30.
Toy torpedo or impact salute. J. B. Decker. 1,945,217; Jan. 30.
Track support. D. M. Robinson. 1,945,332; Jan. 30.
Tractor. G. M. Walker. 1,945,169; Jan. 30.
Tractor attachment. H. S. Eberhard. 1,945,185; Jan. 30.
Trailer, Automobile. J. W. Small and E. W. Pahlke. 1,945,089; Jan. 30.
Transmission. V. Lewand. 1,945,439; Jan. 30.
Transportable apparatus for applying bituminous coverings, particularly to canal walls and the like inclined surfaces. H. Mösslang and H. Volbehr. 1,945,065; Jan. 30.
Tray, Ash. M. Kaplan. Des. 91,429; Jan. 30.
Truck wheel, Dual tired. L. D. Kay. 1,945,277; Jan. 30.
Tube: *See*—
Discharge tube.
Tube for amplifying electric oscillations, Discharge. G. Holst and B. D. H. Tellegen. 1,945,041; Jan. 30.
Tubes, Continuous method of making sheet cellulose. O. W. Dieffenbach. 1,944,970; Jan. 30.
Turbine. F. Ljungstrom. 1,944,987; Jan. 30.
Turbine, Hydraulic. H. E. Popp. 1,945,071; Jan. 30.
Turbine plant, Explosion. H. Holzwarth. 1,944,892; Jan. 30.
Tuyère. J. A. Drogue. 1,944,931; Jan. 30.
2-phenyl-quinoline-4-carboxylic acid and its salts, Purification of. W. H. Glahn and J. Ehrlich. 1,945,270; Jan. 30.
Typewriter line stop. E. S. Hall. 1,944,889; Jan. 30.
Typewriting machine. R. G. Thompson and C. W. Crumrine. 1,945,097; Jan. 30.
Unit building construction. J. B. Strauss. 1,945,124; Jan. 30.
Urea, Manufacture of. M. Hofsäss. 1,945,314; Jan. 30.
Utility sewing box. O. M. Stiegler. 1,945,123; Jan. 30.
Vacuum gatherer. E. B. Hamilton. 1,944,976 Jan. 30.
Vacuum sealing machine for bottles, cans, and the like. F. O. L. Chorlton. 1,944,967; Jan. 30.
Valve: *See*—
Damper valve. Gas holder valve.
Valve. S. J. Nordstrom. 1,944,995; Jan. 30.
Valve converting system, Electric. E. Horowicz. 1,945,401; Jan. 30.
Valve mechanism. O. L. Hastings. 1,944,979; Jan. 30.
Vegetable cutter. C. A. Thomas. 1,945,239; Jan. 30.
Vibrator, Pneumotympanic. F. E. Lester. 1,945,372; Jan. 30.
Viscosimeter. A. Kümpf. 1,944,983; Jan. 30.
Voice operated switching. E. K. Sandeman and F. G. Filby. 1,945,082; Jan. 30.
Wall. C. R. Baldwin. 1,945,474; Jan. 30.
Wardrobe or locker. F. Albach. 1,944,913; Jan. 30.
Washer. F. W. Cutler. 1,944,876; Jan. 30.
Washing machine. C. K. Cimarik and L. Zimarik. 1,945,477; Jan. 30.
Washing machine. J. E. Pointon. 1,945,442; Jan. 30.
Washing machine. J. I. Russakov. 1,945,234; Jan. 30.
Washing machine. H. T. Rutherford. 1,945,444; Jan. 30.
Washing machine for milk cans. J. P. McKinley. 1,945,059; Jan. 30.
Watch. R. Sheldon. Des. 91,443; Jan. 30.
Water heater. E. Kennedy. 1,944,894; Jan. 30.
Web tension mechanism for printing presses. A. J. Cline. 1,945,136; Jan. 30.
Wheel: *See*—
Demountable wheel. Truck wheel.
Wheel or motor, Water. F. Nolan. 1,945,373; Jan. 30.
Window. E. P. Carl. 1,945,135; Jan. 30.
Window fixture. F. H. Naftzger. 1,945 356; Jan. 30.
Window seat. F. Kloboučnik. 1,945,113; Jan. 30.
Wiredrawing machine. C. E. Traxel. 1,945,339; Jan. 30.
Wrapper for neckties. D. T. Trestrail. 1,945,099; Jan. 30.
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Hose wrench.
Yarn or thread holder. O. J. Koger. Des. 91,433; Jan. 30.
Zinc base alloy. P. J. Morell. 1,945,288; Jan. 30.

CLASSIFICATION OF PATENTS

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Patents Nos. 1,941,449 to 1,942,392

THE OFFICIAL GAZETTE OF THE United States Patent Office

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Total	1,206			

Notices of Cancellation

U. S. Patent Office, *Washington, December 8, 1933.*

Charles A. Mead, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the General Products Co., 252 North 11th Street, Philadelphia, Pa., to effect the cancellation of the trade-mark registration of Charles A. Mead, 1508 North Harding Avenue, Chicago, Ill., No. 160,921, dated October 31, 1922, and the notice of such proceeding sent by registered mail to the said Mead at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Mead, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

F. M. HOPKINS,
Assistant Commissioner.

U. S. Patent Office, *Washington, December 8, 1933.*

Harry Kesselman, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the Pro-phy-lac-tic Brush Company, Northampton, Mass., to effect the cancellation of the trade-mark registration of Harry Kesselman, 311 West 59th St., New York, N. Y., No. 283,622, dated June 2, 1931, and the notice of such proceeding sent by registered mail to the said Kesselman at the said address having been returned by the postoffice as undeliverable, notice is hereby given that unless said Kesselman, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

F. M. HOPKINS,
Assistant Commissioner.

U. S. Patent Office, *Washington, December 8, 1933.*

The Pynolene Remedy Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Pineoleum Company, 52 West 15th Street, New York, N. Y., to effect the cancellation of the trade-mark registration of The Pynolene Remedy Company, 100 West 18th Street, Oklahoma City, Okla., No. 197,514, dated April 21, 1925, and the notice of such proceeding sent by registered mail to The Pynolene Remedy Company at the said address having been returned by the postoffice as undeliverable, notice is hereby given that unless The Pynolene Remedy Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Offical Gazette for three consecutive weeks.

F. M. HOPKINS,
Assistant Commissioner.

Attorneys—Disbarment

(Order No. 8,255)

U. S. Patent Office, *Washington, Oct. 21, 1933.*

Acting under the provisions of section 487 of the Revised Statutes of the United States (U. S. C., title 35, sec. 11), Frank Carlson, of 159 E. 39th Street, New York, N. Y., whose registration is number 10,480, has this day been disbarred from practice before the United States Patent Office.

CONWAY P. COE,
Commissioner.

Adjudicated Patents

(C. C. A. Pa.) Gray patent, No. 1,314,867, for power-transmitting mechanism, *Held* valid and infringed. *Gray* v. *Eastman Kodak Co.*, 67 F.(2d) 190.

(D. C. Mass.) Weston patent, No. 1,418,855, for heel lining for repairing shoes, *Held* not infringed. *Sheridan* v. *Silver-Brown Co.*, 4 F. Supp. 759.

(D. C. Cal.) Bahr patent, No. 1,532,500, for automobile bed, *Held* infringed. *Bahr* v. *O'Nate*, 4 F. Supp. 776.

(D. C. Mass.) Sheridan and Jacobson patent, No. 1,609,790, for stocking protector, claims 1, 2, and 3, admittedly infringed, *Held* valid. *Sheridan* v. *Silver-Brown Co.*, 4 F. Supp. 759.

Condition of Applications Under Examination at Close of Business December 16, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 42,095; Trade-Mark Division, 962. Oldest new case, August 7, 1933; oldest amended, August 8, 1933.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Aug. 23	Aug. 23	470
6708	2. HERRMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Aug. 21	Aug. 22	740
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Sept. 18	Sept. 18	618
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Sept. 9	Sept. 11	381
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Sept. 18	Sept. 16	488
4898C	6. LEWERS, A. M., Carbon Chemistry	Aug. 17	Aug. 21	950
5725	7. JARBOE, C. G., Optics; Photography	Sept. 5	Sept. 5	847
3857	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Oct. 26	Nov. 1	243
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 13	Oct. 9	467
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Sept. 11	Sept. 12	485
6097B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Aug. 16	Aug. 21	567
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms.	Sept. 6	Sept. 6	506
5086	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Oct. 2	Oct. 2	475
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Oct. 14	Oct. 18	326
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 3	Sept. 3	1,089
5612	16. SPENCER, C. J., Telegraphy; Telephony	Oct. 5	Oct. 5	206
5701	17. ARMSTRONG H., Ornamention; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Aug. 16	Aug. 16	849
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Oct. 19	Oct. 18	278
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Aug. 18	Aug. 15	1,008
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Oct. 16	Oct. 16	178
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Aug. 9	Aug. 9	535
5724	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Aug. 21	Aug. 25	856
7802	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Aug. 21	Aug. 16	484
5063	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 19	Sept. 22	512
6709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 17	Aug. 17	897
5863	26. ADAMS, W. M., Electricity, Generation; Motive Power	Oct. 20	Oct. 20	302
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Sept. 16	Sept. 16	460
4628	28. BENSON, A. R., Internal-Combustion Engines	Aug. 16	Aug. 16	539
5062	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Oct. 4	Oct. 4	200
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Sept. 16	Sept. 18	593
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Aug. 16	Aug. 16	1,006
4096	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 6	Oct. 11	291
6086	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Aug. 31	Aug. 31	796
6635	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Aug. 16	Aug. 16	961
3000	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Aug. 28	Aug. 30	702
7624	36. McFAYDEN, A. D., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Aug. 7	Aug. 8	1,195
5886	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 21	Sept. 23	400
7810	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Aug. 17	Aug. 30	637
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 6	Sept. 6	698
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Sept. 5	Sept. 12	952
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Aug. 29	Sept. 7	420
5882	42. CUTTING, H. O., Electric Signaling	Aug. 18	Aug. 12	864
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Aug. 23	Aug. 23	1,027
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Aug. 16	Aug. 17	761
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Nov. 2	Nov. 6	261
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Oct. 1	Oct. 2	360
7600	47. BARKER, H., Clutches; Brakes; Motors	Aug. 24	Aug. 23	979
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Aug. 26	Aug. 25	624
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Aug. 16	Aug. 16	703
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Aug. 18	Aug. 18	1,007
5628	51. BACKUS, C. D., Radiant Energy	Sept. 22	Sept. 22	713
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Sept. 23	Sept. 29	488
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Oct. 3	Oct. 4	376
3874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Aug. 28	Aug. 28	733
6887	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery Designs	Sept. 21 Nov. 20	Sept. 21 Dec. 1	808 320
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Sept. 1	Sept. 1	737
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Sept. 26	Sept. 27	300
5686	58. DOWELL, E. F., Abrading	Oct. 8	Oct. 8	232
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Aug. 31	Aug. 31	611
5896	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Aug. 25	Aug. 23	854
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus.	Aug. 17	Aug. 19	443
3576	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Aug. 23	Aug. 23	1,182
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Aug. 28	Aug. 28	810
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Aug. 31	Aug. 30	866
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Aug. 16	Aug. 16	898
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND—{Trade-Marks Labels and Prints	Nov. 17 Nov. 24	Dec. 1 Dec. 12	909 53

DECISIONS IN PATENT AND TRADE-MARK CASES.

U. S. Circuit Court of Appeals—Sixth Circuit

DEVIN ET AL. *v.* WESTERN WHEELED SCRAPER CO.

No. 6,342. Decided June 29, 1933

Rehearing denied October 14, 1933

1. PATENTABILITY.
Patent No. 1,706,099, claims 9, 11, 14, 15, 17–23, relating to tractor-drawn dump wagons of bottom dump type, *held* invalid for lack of invention.

2. SAME—COMMERCIAL SUCCESS.
Commercial success will not alone turn issue in favor of patentability.

3. SAME.
Patent 1,752,056, relating to tractor-drawn dump wagon of bottom dump type, *held* invalid for lack of invention.

APPEAL from the District Court of the United States for the Western District of Tennessee, Western Division; Harry B. Anderson, Judge.

Patent infringement suit by Western Wheeled Scraper Company against E. A. Devin, wherein the Euclid Crane & Hoist Company intervened as defendant, and filed counterclaim. From the decree, defendants appeal.

Affirmed in part, and reversed in part, with directions.

Merrell E. Clark, of New York City (*Frank R. Higley*, of Cleveland, Ohio, and *John W. Farley*, of Memphis, Tenn., on the brief), for appellants.

Scott Fitzhugh, of Memphis, Tenn., and *John L. Jackson*, of Chicago, Ill. (*John A. Dienner*, of Chicago, Ill., on the brief), for appellee.

Before HICKS, HICKENLOOPER, and SIMONS, Circuit Judges

HICKS, *Cir. J.*:

Suit by Western Wheeled Scraper Company, appellee, against E. A. Devin, a user, for infringement of Patent No. 1,706,099, March 19, 1929, to Benbow and Green for a "dump wagon." The claims involved are 9, 11, 14, 15, and 17 to 23, inclusive. The Euclid Crane & Hoist Company intervened as a defendant and counterclaimed for infringement of two patents, only one of which, to wit, No. 1,752,056, March 25, 1930, to Armington & Armington, for a "dump trailer", is here involved.

The case was referred to a special master, who found that both patents were invalid for lack of invention. Upon exceptions to the master's report the district court held the Benbow and Green patent, No. 1,706,099, valid and infringed, and the Armington & Armington patent, No. 1,752,056, invalid for lack of invention. Defendants appealed.

[1] Both of these patents relate to tractor-drawn dump wagons of the bottom dump type equipped with "caterpillar treads," commonly called crawlers. For many years before 1925 appellee was engaged in building and selling vehicles for hauling earth, stone, etc. The Athey Truss Wheel Company was a manufacturer of "truss wheels" of special design, utilizing the track-laying or "caterpillar wheel" construction and intended for use upon vehicles transporting heavy loads over soft ground. As a result of a conference between officers of these two companies appellee began in 1925 to build and sell a bottom dump wagon equipped with Athey crawlers. To this end it directed its engineers, James D. Benbow and James B. Green, to design a wagon that could be used with the Athey truss wheels. These engineers visited the Athey factory and not only saw the Athey truss wheels, but also some of the Athey cane carts, a type of vehicle which had been built by the Athey Company since 1917. These carts were principally used in Cuba to haul sugar cane and were to some extent in demand in Florida and Louisiana in logging operations. They were equipped with Athey truss wheels, but were not dump carts.

The actual achievement of Benbow and Green was to convert the Athey cane cart into a dump wagon, which they did by removing the frame from the cart and substituting therefor a wagon bed, with two sets of bottom dump doors, one in front and one in the rear of the axle. The doors opened from the center and were operated by a chain and ratchet mechanism. Upon the wagon so designed Patent No. 1,706,099 was issued. Claim 11 is typical. It may be analyzed as follows: A dump wagon comprising (1) a frame; (2) a bed supported thereon; (3) bottom dump doors hinged at the sides of said bed for swinging outwardly and downwardly to the sides of the dump load; (4) a pair of axle brackets secured to said frame intermediate of the ends thereof; (5) reinforcing means extending between said axle brackets, each of said brackets comprising a downwardly and outwardly extending arm; (6) axles carried by said arms; (7) self-laying track units pivotally supported on said axles at opposite sides of the wagon; and (8) the axle brackets and their reinforcing means being arched substantially to clear the load, dumped from a substantially full bed.

All of these elements considered separately are admittedly old. Appellee insists, however, that the invention is found in the combination; but the combination itself is old, as shown in the Athey cane cart, except that the cane cart is not a dump cart. The combination is also present in Bunn, No. 923,943, 1909, a patent for a dumping wagon, with the exception that the rear wheels of the Bunn wagon were ordinary wagon wheels instead of the crawler type.

We do not regard it as the exercise of inventive genius to substitute a wagon bed with bottom dump doors for the frame of the Athey cane cart. Mr. Green testified that he did not know that any of the problems were very serious ones. The Benbow and Green wagon operated as a load-carrying vehicle just as had the Athey cane cart, and its bottom dump doors performed the same function as conventional bottom dump doors had formerly performed and with the same result. The wagon was an improvement no doubt [see *Ford Motor Co.* v. *Ohio Stamping & Engineering Co.*, 56 F.(2d) 807

(C. C. A. 6)], but it did not embody invention. The case must be ruled by *Keene* v. *New Idea Spreader Co.*, 231 F. 701, 709 (C. C. A. 6), and by *Newcomb, David Co., Inc.*, v. *R. O. Mahon Co.*, 59 F.(2d) 899, 901 (C. C. A. 6), and the cases there cited.

[2] We are not unmindful that the Benbow and Green wagon was commercially successful, but commercial success alone will not turn the issue in favor of patentability. We think its success was due not only to the fact that it was an improvement, but to increased activity in levee work upon the Mississippi and the consequential demand for some such character of vehicle.

[3] The Benbow and Green wagon attracted the attention of Arthur P. Armington, vice president of appellant, the Euclid Company. He saw one at work on a Mississippi levee and noted what he considered to be certain disadvantages in its construction. He thought that the use of front trucks afforded an opportunity for the wagon to "jackknife" or buckle when following a tractor down steep grades; that the two pairs of doors dumping separately or together with their winding mechanism were complicated, and that as an element of safety the device that operated the doors should be located at the rear instead of at the front of the wagon. Following his suggestions, his company built and sold the Euclid wagon of the cart type, and designed to be hitched directly to the tractor by means of a drawbar. By using a modified form of arched axle, Armington was enabled to use one pair of dump doors instead of two. His idea was that a single pair of full length doors would effect a better balance in the load of a wagon having a single axis than would two sets of doors. It is somewhat difficult to understand just how this would be accomplished. However, Armington applied for a patent upon this wagon, which was granted as Armington & Armington, No. 1,752,056, March 25, 1930. Its two claims are the basis of the counterclaim of appellant. Claim 2 is printed in the margin.[1]

In view of what has been said herein touching the Benbow and Green patent and wagon, we do not regard it necessary to enter into a detailed discussion of the Armington claims. It is perhaps sufficient to say that the claims are for combinations each element in both of which is old, and that the combination evidences no more than the skill of a mechanic charged with the knowledge of prior achievements in the art.

So much of the decree of the District Court holding the Benbow and Green patent, No. 1,706,099, valid and infringed will be reversed, with directions to dismiss the bill as to that patent, but in all other respects it will be affirmed.

[1] "2. In a vehicle of the class described, a rigid open frame, an open-bottom container carried by said frame to dump therethrough, doors for the dumping opening extending the full length thereof and mounted to swing downwardly and laterally to dumping position, arched axle means intermediate the ends of the frame and comprising a member located above the doors and extending across the frame through the sides thereof with ends projecting therebeyond, brackets sleeved on the ends of said member and secured to the frame and extending downwardly below the elevation of the container, and stub shafts extending outwardly from the lower extremities of said brackets and carried by endless tread running gear."

U. S. Circuit Court of Appeals—Seventh Circuit

DETROIT MOTOR APPLIANCE CO. *v.* TAYLOR ET AL.

No. 4,862. Decided August 1, 1933

1. PATENTABILITY—INVENTION—EVIDENCE OF.
"Whether for this purpose appellees employ other devices on some or many of their cars is not material. The fact that with their fourteen years of experience under the license contract, appellees, after its termination, still persist in using the Crawford device, tends quite convincingly to indicate that invention was involved in its origination."

2. SAME—SAME—SAME.
Admissions, apparently frank, of experienced workers in the art concerning validity of patent *Held* of probative value in determining that patentee's combination showed invention and patentable advance over the prior art.

3. SAME—RADIATOR SHIELD.
Crawford patent, No. 1,352,184, for improvement in radiator shields, claims 1, 4 and 8, *Held* valid and infringed.

APPEAL from the District Court of the United States for the Eastern District of Illinois; Walter C. Lindley, Judge.

Suit by the Detroit Motor Appliance Company against William B. Taylor and Curtis Kirk Taylor, doing business under the name of Taylor Brothers, and under the name of Oldsmobile Sales & Service, and General Motors Corporation for patent infringement. From a decree dismissing plaintiff's bill for want of equity, plaintiff appeals.

Reversed, with directions.

Charles B. Belknap, of Toledo, Ohio, and *Albert G. McCaleb* of Chicago, Ill., for appellant.

Frank E. Liverance, Jr., of Grand Rapids, Mich., and *William M. Acton*, of Danville, Ill., for appellees.

Before ALSCHULER, EVANS, and SPARKS, Circuit Judges

ALSCHULER, *Cir. J.*:

Appellant seeks reversal of a judgment dismissing, for want of equity, its bill charging appellees with infringement of United States patent to Crawford (assigned to appellant), No. 1,352,184, September 7, 1920, for improvement in radiator shields.

The invention has to do with means for regulating the flow of the air through automobile radiators for the purpose of cooling the water which circulates therein in order to keep the engine cool. As is well stated in appellees' brief:

The inventive concept of Crawford, therefore, was to take the old radiator consisting of core covered by a separate covering shell of sheet metal, admittedly old, extend the shell in front forward farther than it had been done previously, and mount in this forward extension of the shell in front of the radiator core, the shutter, which in closed position closed the front open panel of the shell and in open position exposed the air and water tubes of the radiator core to the air which might pass backwardly through the panel and the open shutters.

Claims 1, 4, and 8 are involved. Claim 4, appearing in the margin,[1] is sufficiently typical. All are combination claims whereof each of the elements is old in the art.

[1] "4. The combination with a radiator core, of a shell forming the regular outer finishing piece for said core formed of pressed sheet-metal having a front face with an open panel and side flanges extending rearward therefrom, the depth of said sides being sufficient to space the plane of the front from the front plane of the core, bearings mounted on the inner face of the sides of the front, shutters journaled in said bearings and extending across said open panel, and a common actuating means for said shutters, by which they may be simultaneously opened and closed in the space between the front faces of the shell and core."

It is claimed that this invention brought together for the first time the extension beyond the face of the radiator proper of the shell or shield which surrounds it, and the shutters, mounted upon and within such extension, adapted to be opened or closed for regulating the extent of the opening for the air intake.

The court found that Crawford's claim 1 is without patentable novelty in view of prior United States patent to Wright, No. 1,152,585; and that his claims 4 and 8 are void of invention and without patentable novelty in view of said patent to Wright, patent to Furber, No. 1,114,246, and patent to Brock, No. 774,556.

Appellees' main reliance is upon the Wright patent, application for which was filed December 14, 1912. This device shows an extension of the radiator shield or shell beyond the radiator face, and at the front of the extension a series of fixed flat metal bars in the form of a grid, with open spaces between the bars, and with a corresponding sliding member for covering and uncovering the spaces. The contention is that before Crawford there were in this art shutters for regulating the air intake, and that it did not involve invention to substitute shutters for grids.

The Furber patent shows a structure not contained within the shield or shell itself, but adapted to be bolted to and carried on the core of the radiator. It showed shutters for regulating the intake, contained within this added structure.

The Brock patent, November 8, 1904, shows devices for cooling or heating the water in the radiators. It mentions pivoted slats as one means of opening and closing the walls of the casing; but it appears that the arrangement is not part of the shield or shell itself, if, indeed, such a shield is there shown; but it is bolted onto the radiator and not to an extension of the shield or shell, as in Furber.

Appellant contends that if in Wright shutters were substituted for grids, it would still fall short of showing the Crawford combination. If it be assumed that with such substitution Wright and Crawford would be substantially identical it would be at least doubtful whether invention over Wright would be involved in the Crawford device; and were it not for the evidentiary influence of transactions between the parties, to which reference will hereinafter be made, we might be inclined to resolve the doubt in accordance with fact finding No. 10.

Fact finding No. 12 is to the effect that the Crawford patent is void of patentable novelty in view of the patents to Carter, Kelzer, Tibbetts, and Fekete. As to this appellees' brief admits that if the twelfth finding of fact is on the basis that the four patents last named anticipate Crawford, and show invention earlier than the invention date to which Crawford is entitled, the finding is in conflict with the seventh finding, which fixes Crawford's invention date not later than December 16, 1915, which is prior to the filing date of each of these four patents.

Appellees admit they are bound by this seventh finding as to Crawford's invention date, and this obviates the need of discussing these patents as prior art or anticipation of Crawford.

Appellees contend that the pendency of so many applications at about this time tends to indicate that the Crawford improvement was the result of the normal growth of this art, and did not involve invention. This court's opinion in *Wall Pump & Compressor Co.* v. *Gardner Governor Co.*, 28 F.(2d) 334, 339, is cited for appellees on this subject. In support of the principle as there stated we quoted from Walker on Patents (5th Ed.) to the effect that:

The absence of invention may be established in some cases, by evidence that a considerable number of persons who were not inventors, acting independently of each other, and without receiving any information from the patentee or his patent, did in fact contrive the improvement claimed therein, not long after he produced it.

To the same general effect there was cited *Concrete Appliances Co. et al.* v. *Gomery et al.*, 269 U. S. 177, 46 S. Ct. 42, 70 L. Ed. 222.

There is evidence in this record tending to indicate there was not that independence or separateness as between Crawford and the others as to invoke here the application of that rule. The evidence indicates that Crawford was lacking in funds, and that for some time before filing his application he sought to interest various concerns in his invention; and it is quite possible, under the evidence, that the somewhat sudden development of more or less similar devices for year round regulation of air flow for cooling water in automobile radiators was stimulated by Crawford's showing of his plans, and his undertaking to interest manufacturers therein, long before his patent was granted, and before even his application was filed.

It does not appear that Wright ever came into use. Indeed, there is evidence to indicate that about the time the license contract expired attempt was made to employ the Wright grids on some of General Motors' radiators, but without success.

We are satisfied that Crawford brought together a new combination of old elements which resulted in some advance over the prior art, and the determining question is whether this involved invention.

Had the controversy followed shortly after the granting of the patent, and without the experiences of the years intervening since Crawford's invention date, it is quite possible that our conclusion would coincide with that of the district court, which found that invention was not involved. But it happens that since Crawford's filing date (September 18, 1916) things have transpired which must be considered in determining the doubtful question of invention.

It appears that prior to March 27, 1917, Crawford had assigned to appellant this application for patent, and a number of other applications for United States patents in the same field. Appellant had acquired also the above referred to United States Patent No. 1,114,246, to Furber, October 20, 1914, for improvements in "temperature-controlling apparatus for internal-combustion engines", and also a number of other applications for patents for more or less similar devices.

Under date of March 27, 1917, appellant entered into a license agreement whereby, in consideration

of a definite sum and of the royalties specified, it granted to Harrison Radiator Corporation, a subsidiary of General Motors Corporation, exclusive license under this and another Furber patent, and under seven pending applications for patents, each for a device showing alleged improvement in means for controlling the air intake to cool the water in automobile radiators. Four of these applications were by Crawford, including the application whereon the patent in question was issued. A scale of royalties applicable to cars of various prices was fixed, and it was stipulated that only one royalty should be paid for each car, even though more than one of the devices was employed thereon. The term of the contract was until the expiration date of the Furber patent—October 20, 1931.

It is not contended that upon expiration of this contract licensees thereunder were estopped from disputing the validity of any patents granted upon applications included within it and which remained in force after the contract expired. But the operations under such a contract may well have a bearing upon the question of whether any of the patents and applications which were its subject matter involved invention. Appellees contend that the Furber patent was the main subject of the contract, and the applications only incidental and "thrown in for good measure." In appellees' brief it was well stated:

> Had the Harrison Radiator Corporation negotiated a license specifically in the first instance with respect to the Crawford patent in suit alone, and had later attacked the validity of said patent after termination of the license such fact might, in a *doubtful* case, have a considerable evidential force and weight as an admission of the validity of the patent by the licensee. But the license being *predicated solely* upon the Furber patent, the Furber patent being the one that was wanted, and the seven pending applications being more or less thrown in, and this also not being in any sense a doubtful case, any implied admission contained in the act of accepting the license loses its weight.

That the main subject-matter of the contract was the Furber invention is quite apparent. But it is evident that as operations under the contract proceeded, the Crawford application whereon the copatent in issue was granted rose in importance and loomed large in the estimate of the licensee. Indeed, it did not remain a mere incident to the Furber patent, but became the sole subject of a supplemental contract between the parties, wherein special license rates were arranged for this patent alone. This supplemental contract, dated November 30, 1927, made after ten years of operation under the original contract, dealt solely with this patent, and fixed a new and unform royalty for all General Motors Corporation cars whereon manually operated devices of this Crawford patent were used.

The number of cars whereon the licensee paid royalty under the Crawford patent was nearly 2,000,000.

The selection of the Crawford device as the subject matter for the supplemental contract after ten years of experience with all of the various devices of the original contract—nay, with the whole field of this art, wherein the Harrison Radiator Corporation, as a subsidiary of General Motors, and General Motors Corporation itself had long been such vast operators—quite persuasively suggests to nonexperts that something of invention must have resided in Crawford's combination. This reasoning finds strong reinforcement in the fact that upon expiration of the license contract appellees persist in employing the particular combination of Crawford rather than one of the many others which it is insisted are "just as good."

[1] Whether for this purpose appellees employ other devices on some or many of their cars is not material. The fact that with their 14 years of experience under the license contract, appellees, after its termination, still persist in using the Crawford device, tends quite convincingly to indicate that invention was involved in its origination.

Besides, it does not appear that, aside from this former licensee, there has been substantial resistance of the validity of the patent. The use of the device of the patent on nearly 2,000,000 cars by large producers, coupled with its continued use by them after the expiration of their license, would naturally stimulate other makers to appropriate it if they felt they might with impunity do so. That this has not been done suggests the general public recognition of and acquiescence in the patent's validity.

There is significance in a letter of November 8, 1920 (about two months after the Crawford patent issued), from Mr. Harrison, president of the Harrison Radiator Corporation, to Mr. Arvedson, of the patents department of the National Automobile Chamber of Commerce, saying:

> Thanks for yours of the 5th, advising that one of your members has been threatened with suit under the Crawford patent, No. 1,352,184, for a radiator shield, owned by the Detroit Motor Appliance Company.
>
> I have not a copy of this patent by me, but I assume that it is the recent patent issued to Crawford, covering the placing of the radiator shutter in the radiator shell between the core and the front face of the shell. This patent has been in the office for some time; I have been aware of its existence, and read it through recently in Detroit.
>
> It appears to me to be a perfectly good patent, and covered broadly the placing of a shutter, whether thermostatically controlled or otherwise, in the extension of the radiator shell in front of the core face of the radiator. I doubt very much whether it could be infringed with impunity, and believe that the whole line of patents of the Detroit Motor Appliance Company, of which, as you say, we are sole licensees, are good and valid and very nearly of their face value.

In a letter dated September 19, 1916, patentee Furber, writing to appellant, said:

> I am inclined to believe that you are right in that Mr. Crawford should be the sole applicant for a patent on the design shown in your photos, which by the way I think is a mighty good design. This idea of inclosing the slats inside of the shell is considerable different than any idea I had in the respect that I contemplated a construction in which the slats were to be mounted on the outside and held in a frame independent thereof.

[2] With such apparently frank expressions made between much-experienced workers in this art, and without indication of intended deception or collusion in the communications, we who are unskilled in the art may accord probative value to such communications and acts in determining whether Crawford's combination showed invention and patentable advance over the prior art.

[3] Believing as we do that under this record invention and patentable advance over the prior art appear, the decree of the district court is reversed, with direction to enter a decree in favor of appellant finding the claims of the patent in issue to be valid and infringed, and awarding to appellant such further relief as it is in such case entitled to have.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,215,178, Meier & Swift, Automatic operating means for ticket vending and registering machine; 1,266,021, E. H. Kelley, Vending machine; 1,308,966, W. L. Sullivan, Ticket issuing machine; 1,398,994, G. H. Armitage, Delivery mechanism for vending machines; 1,435,231, R. H. Heisel, Ticket issuing machine, D. C., N. D. Ohio, E. Div., Doc. 4326, *General Register Corp.* v. *The Ticket Issuing Machine Co.* Dismissed without prejudice Oct. 25, 1933.

1,219,881. (See Re. 17,891.)

1,243,458. (See Re. 17,891.)

1,248,944, W. C. Stilson, Trap; 1,891,737, H. A. Stilson, Animal trap, filed Mar. 3, 1933, D. C., N. D. Ill., E. Div., Doc. 13045, *A. S. Nichols Western Co.* v. *Butler Bros.*

1,259,917. (See 1,718,177.) 1,266,021. (See 1,215,178.)

1,283,109, A. Doble, System of automatic regulation for steam driven automobiles, filed Oct. 26, 1933, D. C., E. D. N. Y., Doc. E 7105, *The Cleveland Trust Co.* v. *M. Osher et al.*

1,308,966. (See 1,215,178.)

1,329,348, E. J. Copeland, Refrigerating apparatus; 1,499,740, F. H. Kolbe, Compressor for refrigerating machinery, filed Mar. 21, 1933, D. C., S. D. Iowa (Davenport), Doc. E 4126, *Kelvinator Corp.* v. *F. W. Adams (Adams & Adams).*

1,398,994. (See 1,215,178.)

1,407,948, B. G. Rand, Card index cabinet; 1,429,628, J. H. Rand, jr., Record cabinet, D. C., S. D. Ohio, W. Div., Doc. E 725, *Remington Rand, Inc.*, v. *International Visible Systems Corp.* Claims 1, 3, 7, 8, 9, 10, 11, and 12 of 1,407,948 and claims 1, 2, 3, and 20 of 1,429,628 held valid and infringed (notice Oct. 23, 1933).

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1,466,130, C. W. Larner, Valve; 1,564,252, same, Differential plunger valve; 1,727,517, L. F. Moody, Hydraulic valve; 1,824,916, same, Valve, filed Oct. 26, 1933, D. C. Md., Doc. E 2214, *I. P. Morris, et al.* v. *Mayor & City Council of Baltimore, Md.*

1,474,152, A. A. Kent, Induction coil, filed Feb. 8, 1933, D. C., N. D. Ill., E. Div., Doc. 12944, *Delco-Remy Corp. et al.* v. *Shurhit Products, Inc.*

1,499,740. (See 1,829,848.) 1,564,252. (See 1,466,130.)

1,627,496, E. Elias, Hand bag, D. C., S. D. N. Y., Doc. E 63/13, *S. R. Goldsmith et al.* (*Goldsmith Bros.*) v. *Geffen-Weene Bag Co.* Consent decree for plaintiff (notice Oct. 23, 1933).

1,638,563, Carruth & Ludwig, Apparatus and method for packaging paper; 1,696,008, W. C. Ludwig, same, D. C., W. D. Mich., S. Div., Doc. E 2482, *The Mead Corp.* v. *Watervliet Paper Co.* Dismissed Oct. 20, 1933.

1,645,370, W. E. Callison, Amusement device, filed Apr. 28, 1933, D. C., N. D. Ill., E. Div., Doc. 13,212, *W. E. Callison* v. *D. Gottlieb et al.*

1,685,271, 1,685,906, 1,720,205, 1,750,662, 1,774,913, W. J. Campbell, Slicing machine; 1,840,845, P. J. Lucey, Feeding mechanism for slicing machines, filed Feb. 8, 1933, D. C., N. D. Ill., E. Div., Doc. 12,943, *American Slicing Machine Co.* v. *The Hobart Mfg. Co.*

1,685,511, W. E. Thomas, Process for preparing spinach and the like for canning, D. C., S. D. Calif. (Los Angeles), Doc. E Y-69-H, *California Packing Corp.* v. *California Sanitary Co., Ltd.* Decree for plaintiff Oct. 18, 1933.

1,685,906. (See 1,685,271.) 1,696,008. (See 1,638,563.)

1,718,177, W. H. Nutt, Heel covering; 1,259,917, E. L. Sharpneck, Heel for shoes, D. C., S. D. Ohio, W. Div., Doc. E 681, *United Shoe Machinery Corp.* v. *Vulcan Corp.* Dismissed Oct. 26, 1933.

1,720,205. (See 1,685,271.) 1,727,517. (See 1,466,130.)

1,727,890, J. E. McGraw, sr., et al., Center irons, D. C., S. D. Calif. (Los Angeles), Doc. E D-47, *J. E. McGraw, sr., et al.* v. *F. Hankins et al.* (*Taft Tool & Machine Works*) *et al.* Consent decree enjoining defendant Sept. 1, 1933.

1,732,808, S. H. Goldberg, Hairpin, D. C., E. D. Wis. (Milwaukee), Doc. 4003, *Chain Stores Products Corp.* v. *Scolding Locks Corp.* Dismissed for want of equity Oct. 23, 1933.

1,736,379, W. R. Sommer, Wire connector, D. C., S. D. N. Y., Doc. E 63/372, *The Jiffy Wire Connector Co.* v. *Union Insulating Co.* Consent decree for plaintiff (notice Oct. 23, 1933).

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1,792,388, H. J. Neumiller, Method of making special containers; 1,756,919, Becker & Munson, Special container; 1,780,142, same, Method of packaging articles, filed April 4, 1933, D. C., N. D. Ill., E. Div., Doc. 13148, *Du Pont Cellophane Co. et al.* v. *Vis-O-Tube Co.*

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1,830,077. (See Re. 17,891.)

1,840,845. (See 1,685,271.)

1,851,526, Shaeffer & Brown, Cracking system, filed Nov. 4, 1932, D. C., N. D. Ill., E. Div., Doc. 12503, *Standard Oil Co.* v. *Winkler-Koch Engineering Co.* (To correct error in 435 O. G., p. 1036, originally published as "filed Nov. 3, 1933".).

1,851,568, C. H. Davis, jr., Circuit breaker leyer, filed Oct. 24, 1933, D. C., S. D. N. Y., Doc. E 76/363, *Delco-Remy Corp.* v. *American Motor Products Corp.*

1,872,641, S. Capezio, Ballet slipper and manufacture of same, filed Feb. 16, 1933, D. C., N. D. Ill., E. Div., Doc. 12978, *S. Capezio* v. *Chicago Theatrical Shoe Co.* Doc. 12979, *S. Capezio* v. *L. Harris et al.*

1,881,324, H. E. Metcalf, Signal reproducer, D. C., N. D. Ill., E. Div., Doc. 13092, *The Magnavox Co.* v. *Premier Electric Co. et al.* Consent decree granting injunction Sept. 28, 1933. Same, filed Mar. 22, 1933, D. C., N. D. Ill., E. Div., Doc. 13104, *The Magnavox Co.* v. *Quam-Nichols Co. et al.* Doc E. 13105, *The Magnavox Co.* v. *Arlab Mfg. Co. et al.*

1,888,776, S. A. Snell, Lifting jack, filed Oct. 25, 1933, D. C., N. D. Ohio, W. Div., Doc. E 1377, *Walker Mfg. Co. et al.* v. *The Bingham Stamping & Tool Co. et al.*

1,891,737. (See 1,248,944.)

1,911,289, W. T. Reddish, Method of cleaning fabric, filed Oct. 25, 1933, D. C., E. D. Wis. (Milwaukee), Doc. 4202, *Emery Industries, Inc.*, v. *Milwaukee Novelty Dye Works, Inc.*

1,927,316, M. Katzman, Electric vaporizer, filed Oct. 26, 1933, D. C., E. D. N. Y., Doc. E 7104, *Kas Mfg. Co., Inc.*, v. *American Sundries Co., Inc.*

Re. 15,061, Cantrell & Miller, Oil retainer, filed Feb. 8, 1933, D. C., N. D. Ill., E. Div., Doc. 12942, *National Motor Bearing Co., Inc.*, v. *Chicago Rawhide Mfg. Co. et al.*

Re. 17,891, G. Sundback, Fastener; 1,219,881, 1,243,458, same, Separable fastener; 1,813,434, J. P. Bennett, same; 1,830,077, E. O. Seaver, same, D. C., E. D. N. Y., Doc. E 6554, *Hookless Fastener Co.* v. *Waldes Koh-I-Noor, Inc.* Dismissed Oct. 20, 1933.

Des. 82,343, J. E. Phillips, Dish; Des. 82,422, W. P. Graham, same, D. C., S. D. N. Y., Doc. E 59/90, *Graham & Zenger, Inc.*, v. *The Rosenthal China Corp. et al.* Consent decree for plaintiff (notice Oct. 26, 1933).

Des. 82,422. (See Des. 82,343.)

Des. 90,076. C. H. Hiser, Grave vault, filed Oct. 23, 1933, D. C., N. D. Ohio, E. Div., Doc. E 4802; *The Springfield Metallic Casket Co.* v. *The National Grave Vault Co.*

T. M. 95,398, T. M. 95,990, Chevrolet Motor Co., Automobiles and accessories and parts thereof; T. M. 190,028, General Motors Corp., same; T. M. 216,070, same, Automobiles, D. C., N. D. Ill., E. Div., Doc. 12940, *General Motors Corp.* v. *F. Frye et al.* Consent decree April 27, 1933.

T. M. 95,990. (See T. M. 95,398.)

T. M. 190,028. (See T. M. 95,398.)

T. M. 216,070. (See T. M. 95,398.)

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,844,803, J. D. Seabert, Acoustic device, decided October 18, 1933, claims 5 and 8.

Pat. 1,899,048, J. B. Olinger, Synchronizing and control mechanism for sound and motion picture apparatus, decided December 4, 1933, claims 1 and 2.

Pat. 1,907,449, Wilfred Sefton and Pennington Sefton, Loud speaker, decided December 6, 1933, claims 1, 2, and 3.

Disclaimers

1,721,663.—*Alois Holzhauer, Jr.*, Milwaukee, Wis. HEATING ATTACHMENT FOR WINDSHIELDS. Patent dated July 23, 1929. Disclaimer filed December 11, 1933, by the assignee, *Holzhauer Products Corporation*, and the patentee.

Your petitioners, therefore, disclaim claim 2 of said patent, No. 1,721,663, said claim being in the following words:

"In a heating device of the character described, a relatively thin and flat casing open at one side and adapted for attachment to a windshield, resistance elements extending across the casing in spaced relation, and yielding means for maintaining said elements taut."

Your petitioners further disclaim from the scope of meaning of said claims numbered 4 and 5 of said patent, No. 1,721,663, any and all forms of "pane heater" except those wherein the "resistor elements" are "spaced" from the "pane" and laterally from one another, thereby to avoid direct contact thereof with the "pane" and to spread the heat therefrom through the thin layer of air confined by the "casing" against the "pane", whereby a portion of the "pane" is heated substantially uniformly and indirectly by the layer of air thus confined.

Your petitioners also further disclaim from the scope of meaning of said claims numbered 6 and 7 of said patent, No. 1,721,663, any and all forms of "windshield heater" except those wherein the heat confining "means" last recited in each of said claims includes a peripheral frame of angular cross section surrounding and supporting the periphery of the "transparent cover plate", a flexible strip projecting laterally from the periphery of said "transparent cover plate" beyond said frame for contact with the "windshield", together with means for securing both said "transparent cover plate" and said strip to said frame.

1,882,269.—*Kent W. Bartlett*, Chicago, Ill. TREATMENT OF HYDROCARBON DEPHLEGMATION PRODUCTS. Patent dated October 11, 1932. Disclaimer filed December 7, 1933, by the assignee, *Jenkins Petroleum Process Company*.

Hereby enters this disclaimer to claims 4, 5, 6 and 7 of the aforesaid Letters Patent which are in the following words, to wit:

"4. A process for the production of gasoline and other oils from hydrocarbon oils which comprises subjecting a mass of hydrocarbon oils to a cracking temperature under pressure to crack said oils and evolve vapors therefrom, withdrawing residual oils from said mass of oils, reducing pressure on the oils so withdrawn while the latter are in a heated condition to flash a portion thereof into hot vapors, separating said vapors from unvaporized residual oils, heating additional hydrocarbon oils to effect a distillation of vapors therefrom, separating vapors so distilled from the unvaporized portion of said additional hydrocarbon oils, mixing out of contact with unvaporized oils vapors so distilled and separated with hot vapors flashed and separated from said withdrawn oils to form a composite distillate, fractionally condensing and separating out heavier fractions from said composite distillate to form a composite condensate, and introducing said composite condensate into the mass of hydrocarbon oils subjected to said cracking temperature and pressure heretofore mentioned.

"5. A process for the production of gasoline and other oils from hydrocarbon oils which comprises subjecting a mass of hydrocarbon oils to a cracking temperature under pressure to crack said oils and evolve vapors therefrom, withdrawing residual oils from said mass of oils, effecting vaporization of a portion of the residual oils so withdrawn, separating evolved vapors from unvaporized residual oils, heating additional hydrocarbon oils to effect a distillation of vapors therefrom, separating vapors so distilled from the unvaporized portion of said additional hydrocarbon oils, mixing out of contact with unvaporized oils vapors so distilled and separated with vapors evolved and separated from said withdrawn oils to form a composite distillate, fractionally condensing and separating out heavier fractions from said composite distillate to form a composite condensate, and introducing said composite condensate into the mass of hydrocarbon oils subjected to said cracking temperature and pressure heretofore mentioned.

"6. A process for the production of gasoline and other oils from hydrocarbon oils which comprises subjecting a mass of hydrocarbon oils to a cracking temperature under pressure to crack said oils and evolve vapors therefrom, separating said vapors into a vapor portion containing gasoline fractions and a reflux condensate portion, withdrawing residual oils from said mass of oils, reducing pressure on the oils so withdrawn while the latter are in a heated condition to flash a portion thereof into hot vapors, separating said vapors from unvaporized residual oils, heating additional hydrocarbon oils to effect a distillation of vapors therefrom, separating vapors so distilled from the unvaporized portion of said additional hydrocarbon oils, mixing out of contact with unvaporized oils, vapors so distilled and separated with hot vapors flashed and separated from said withdrawn oils to form a composite distillate, fractionally condensing and separating out heavier fractions from said composite distillate to form a composite condensate, introducing said composite condensate into said reflux condensate portion to form a mixture of oils, and introducing the mixture of oils thus formed into the mass of hydrocarbon oils subjected to said cracking temperature and pressure heretofore mentioned.

"7. A process for the production of gasoline and other oils from hydrocarbon oils which comprises subjecting a mass of hydrocarbon oils to a cracking temperature under pressure to crack said oils and evolve vapors therefrom, separating said vapors into a vapor portion containing gasoline fractions and a reflux condensate portion, withdrawing residual oils from said mass of oils, effecting vaporization of a portion of the residual oils so withdrawn, separating evolved vapors from unvaporized residual oils, heating additional hydrocarbon oils to effect a distillation of vapors therefrom, separating vapors so distilled from the unvaporized portion of said additional hydrocarbon oils, mixing out of contact with unvaporized oils vapors so distilled and separated with vapors evolved and separated from said withdrawn oils to form a composite distillate, fractionally condensing and separating out heavier fractions from said composite distillate to form a composite condensate, introducing said composite condensate into said reflux condensate portion to form a mixture of oils, and introducing the mixture of oils thus formed into the mass of hydrocarbon oils subjected to said cracking temperature and pressure heretofore mentioned."

CARNEGIE LIBRARY OF PITTSBURGH

TRADE-MARKS

OFFICIAL GAZETTE, JANUARY 2, 1934

[VOL. 438. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 2

Receptacles

Ser. No. 343,499. GENERAL CAN COMPANY, Chicago, Ill. Filed Nov. 10, 1933.

CENTURY

For Tin Cans.
Claims use since Nov. 6, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 290,230. KANJIRO YAMADA, doing business as Nihon Sieyen Kenkyujo, Tokyo Fu, Japan. Filed Sept. 25, 1929.



The word "Salt" is disclaimed apart from the mark as shown. No claim is made to the exclusive use of the Japanese wording which translated into English means "Japan Salt Manufacturing Laboratory," and "Registered" apart from the mark as shown in the drawing.

For Refined Salt Water.
Claims use since May, 1929.

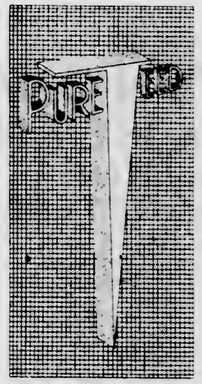
Ser. No. 317,246. ESTHER LOUISE FREY, doing business as Esther Ralston, Hollywood, Calif. Filed July 23, 1931.

Esther Ralston's

FROSTINE

The signature is fanciful.
For Cosmetics—Namely, Face Creams.
Claims use since July 1, 1931.

Ser. No. 331,396. WILLIAM BEEKEN, doing business as Pureteed Company, Newark, N. J. Filed Oct. 20, 1932.



The word "Pure" is disclaimed apart from the mark shown. The trade-mark is shown in white on a black background with the letters in perspective and those parts of the letters which are in shadow finely cross-hatched to show the shading; no other colors being used.

For Shampoo, Brilliantine, Hair Dressing, Skin Softener, and Hand Lotion.
Claims use since Oct. 14, 1932.

Ser. No. 333,453. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill. Filed Dec. 27, 1932.

CAMEO

For Laundry Starch.
Claims use since July 28, 1932.

Ser. No. 338,549. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed June 5, 1933.

HYDISTEAR

For New High-Melting Point Stearic Acid.
Claims use since Mar. 1, 1933.

Ser. No. 341,018. FIRMA HANS SCHWARZKOPF, Berlin-Tempelhof, Germany. Filed Aug. 25, 1933.



The term "Hairgloss" is disclaimed apart from the mark as shown in the drawing. The representation of two human heads appearing on the drawing are fanciful.
For Shampoo for the Hair.
Claims use since Jan. 16, 1932.

Ser. No. 341,797. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Sept. 22, 1933.

"NŌBLIS"

For Preparation for Retarding Sunburn.
Claims use since July 3, 1930.

Ser. No. 341,832. HARRY A. ERNST, Springfield, Mass. Filed Sept. 23, 1933.

SNOW SHEEN SKIN OFTENER

The words "Skin Softener" are disclaimed apart from the other features of the mark shown on the drawing.
For Preparation for Conditioning and Softening the Human Skin.
Claims use since Aug. 26, 1933.

Ser. No. 342,320. REJUVIA BEAUTY LABORATORIES, INC., New York, N. Y. Filed Oct. 10, 1933.

FLAME-GLO

For Lipstick.
Claims use since Sept. 8, 1933.

Ser. No. 342,388. JAY R. DAVIS, doing business as Kandu, The Great, New York, N. Y. Filed Oct. 12, 1933.

KANDU

For Perfume.
Claims use since Oct. 2, 1933.

Ser. No. 342,525. CLEAN HOME PRODUCTS, INC., Chicago, Ill. Filed Oct. 16, 1933.

APEX FUMICAKE

For Preparation in Cake Form Used for Fumigating and Deodorizing.
Claims use since Feb. 1, 1933.

Ser. No. 342,527. CLEAN HOME PRODUCTS, INC., Chicago, Ill. Filed Oct. 16, 1933.

APEX NUGGETS

For Crystaline Substance Used for Deodorizing.
Claims use since Feb. 1, 1933.

Ser. No. 342,562. A. M. ALEXANDER, Omaha, Nebr. Filed Oct. 17, 1933.

Schofe

For Preparation Containing Admixed Chemicals and Water Used for Waving Hair on a Human Head.
Claims use since Apr. 15, 1931.

Ser. No. 342,811. GORDON B. MCGLENN, Cleveland, Ohio. Filed Oct. 23, 1933.

REGOL

The lining in the drawing indicates the color blue.
For Preparation for the Treatment of Liver and Gall Disorders.
Claims use since July 1, 1933.

Ser. No. 343,091. G. S. STODDARD & CO., INC., New York, N. Y. Filed Oct. 31, 1933.

ATROBUTIN

For Medicinal Tablets for Treatment of Urinary Incontinence or Irritation of the Urinary Tract.
Claims use since May 1, 1932.

Ser. No. 343,092. G. S. STODDARD & CO., INC., New York, N. Y. Filed Oct. 31, 1933.

GLYCO-VIRON

For Reconstructive Tonics for Increasing Appetite and Promoting Gastric Secretion Indicated in Debilitated Conditions and Convalescence from Acute Infections or Surgical Operations.
Claims use since May 1, 1933.

Ser. No. 343,093. G. S. STODDARD & CO., INC., New York, N. Y. Filed Oct. 31, 1933.

ORTHOBEN

For Expectorant and Antispasmodic for the Treatment of Coughs and Irritations of the Respiratory Tract.
Claims use since Mar. 1, 1931.

Ser. No. 343,118. WILLIAM J. FINK, doing business as The Holford Co., Minneapolis, Minn. Filed Nov. 1, 1933. Under 10-year proviso.

Holford's

For Inhalants for Use in Treating Asthma, Hay Fever, Sinus, Catarrh, Colds, and Headaches.
Claims use since 1889.

Ser. No. 343,136. THE OLEOTHESIN COMPANY, INC., Buffalo, N. Y. Filed Nov. 1, 1933.

INFINAMINE

For Solution of the Pressor Principle of the Pituitary Infindibulum.
Claims use since Oct. 24, 1933.

Ser. No. 343,142. VIGNY, INC., New York, N. Y. Filed Nov. 1, 1933.

HEURE INTIME

For Perfumes.
Claims use since Oct. 24, 1933.

Ser. No. 343,184. THE PEPSODENT CO., Chicago, Ill. Filed Nov. 2, 1933.

PEPSODENT

For Skin Lotions.
Claims use since Aug. 15, 1933.

Ser. No. 343,306. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Nov. 6, 1933.

SILVER

For Stearic Acid.
Claims use since Sept. 22, 1933.

CLASS 7

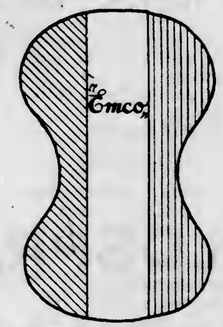
Cordage

Ser. No. 336,371. PLYMOUTH CORDAGE COMPANY, North Plymouth, Mass. Filed Apr. 3, 1933.

COP-PAINTED

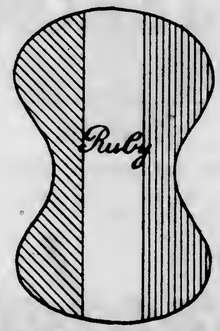
The word "Painted" is disclaimed except in the combination shown.
For Hard Fibre Rope, Twine and Cords.
Claims use since Apr. 1, 1932.

Ser. No. 344,140. EMPIRE TWINE AND YARN CO., INC., New York, N. Y. Filed Nov. 25, 1933.



The lining at the left and right side of the drawing represent green and red color, respectively.
For Twine and Cordage Made of Cotton, Hemp, Flax, Linen, Jute, Manila, and Sisal.
Claims use since January, 1929.

Ser. No. 344,141. EMPIRE TWINE AND YARN CO., INC., New York, N. Y. Filed Nov. 25, 1933.



The lining at the left and right side of the drawing represent red and green color, respectively.
For Twine and Cordage Made of Cotton, Hemp, Flax, Linen, Jute, Manila, and Sisal.
Claims use since January, 1929.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 343,319. THE BRIARWOOD CORPORATION, Cleveland, Ohio. Filed Nov. 7, 1933.

BERBRIAR

For Pipes, Cigarette Holders, and Cigar Holders.
Claims use since Oct. 8, 1931.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 342,942. BREW TAPPING APPARATUS, INCORPORATED, New York, N. Y. Filed Oct. 26, 1933.

SIMPLEX BAR PRODUCTS

BREW TAPPING APPARATUS
INCORPORATED

No claim is made to the words appearing in the drawing, except to the word "Simplex" apart from the mark shown on the drawing.
For Beer Faucet, Air Regulating Valve, Beer Pipe Cleaning Tanks and Tubing.
Claims use since May 23, 1933.

Ser. No. 343,369. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn. Filed Nov. 7, 1933.

FOLDSPRAY

For Bath Shower Curtains.
Claims use since Aug. 4, 1933.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 341,840. THE PLYKROME CORPORATION, New York, N. Y. Filed Sept. 23, 1933.

PLYKROME

For Welding Rods.
Claims use since Nov. 7, 1932.

CLASS 16

Paints and Painters' Materials

Ser. No. 343,762. FRANK BOWNES COMPANY, INC., Chelsea, Mass. Filed Nov. 17, 1933.

tredene

For Preparation in the Nature of a Varnish.
Claims use since Oct. 2, 1933.

Ser. No. 343,763. FRANK BOWNES COMPANY, INC., Chelsea, Mass. Filed Nov. 17, 1933.

tredex

For Floor Preparation in the Nature of a Wax.
Claims use since Oct. 2, 1933.

Ser. No. 343,883. THE SHERWIN-WILLIAMS CO., Cleveland, Ohio. Filed Nov. 20, 1933.

EXOLVENT

For Thinners for Paints, Varnishes, Enamels, Lacquers, Stains, and Colors.
Claims use since Apr. 1, 1933.

Ser. No. 344,070. UNITED COLOR & PIGMENT CO., Newark, N. J. Filed Nov. 23, 1933.

Unilith

For Paint Pigments.
Claims use since Sept. 1, 1933.

CLASS 17

Tobacco Products

Ser. No. 336,328. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Apr. 1, 1933.



No claim is made herein for the representation of the label per se, the words "Turkish Blend Cigarettes" twice occurring, "No Gold Tips but Finest Quality" or the words "Made of the Finest Tobaccos Perfectly Blended" apart from the mark shown. The vertical shade lines on the drawing represent the color red.
For Cigarettes.
Claims use since 1901.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 338,305. O. B. ANDREWS COMPANY, Chattanooga, Tenn. Filed May 29, 1933.



No claim is made to the words "Peep-Show-Movie" except when used in association with the mark as shown.
For Toy Theatres and Accessories Therefor.
Claims use since May 1, 1933.

Ser. No. 343,083. MASTER MAKERS, Catonsville, Md. Filed Oct. 31, 1933.

MASTER MAKER

For Wood Construction Toy Sets.
Claims use since Feb. 25, 1933.

Ser. No. 343,458. THE KROYDON CO. INC., Maplewood, N. J. Filed Nov. 9, 1933.

STIF-FLEX

For Golf Clubs.
Claims use since Sept. 25, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 340,418. SCHOCK, GUSMER & CO. INC., Hoboken, N. J. Filed Aug. 4, 1933.



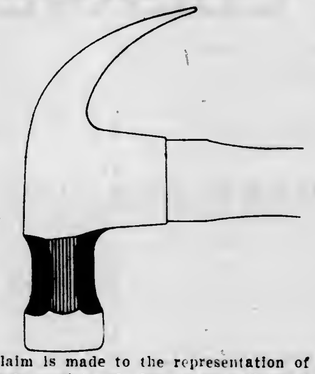
For Brewing Equipment—Namely, Malt Mills, Malt Cleaning Reels, Mechanical Malt Conveyors, Malt Bucket Elevators, Mashing Equipment for Extracting Ingredients from Malt and Cereal and Converting them into Brewing Products, and Made of Sheet Iron, Steel, or Wood; Worm Gear Drives, Brew Kettles of the Steam-Jacketed Type and Those Equipped with Special Percolating Coil, Keg Washing Machines, Keg Elevators, and Stills.
Claims use since 1875.

Ser. No. 341,135. MIDWEST PRODUCTS COMPANY, Springfield, Ohio. Filed Aug. 29, 1933.

KUTS-TH-BUCK

For Lawn Mowers.
Claims use since Aug. 1, 1933.

Ser. No. 341,608. FAYETTE R. PLUMB, INC., Philadelphia, Pa. Filed Sept. 15, 1933.



No claim is made to the representation of the goods. The mark consists of alternate parallel red and black bands shown on the neck of the hammer, the back of the neck being broadly black.
For Hammers.
Claims use since January, 1933.

Ser. No. 342,344. CLUB RAZOR AND BLADE MFG. CORP., Newark, N. J. Filed Oct. 11, 1933.

NADEAU

N-P

For Razor Blades.
Claims use since Apr. 1, 1933.

Ser. No. 342,568. THE BATES MANUFACTURING COMPANY, West Orange, N. J. Filed Oct. 17, 1933. Sec. 5b, Act of Feb. 20, 1905 as amended Mar. 19, 1920.

Bates

Applicant claims ownership of trade-mark registration Ct. #158174 effected Aug. 29, 1922 under the 10-year

proviso clause of the act of Feb. 20. 1905; and claims also Ct. #230150 registered July 12, 1927 under Sec. 5b, Act of Feb. 20, 1905 as amended by the act of Mar. 19, 1920.
For Paper Fastening Devices and Paper Fasteners—Namely, Stapling Machines.
Claims use since August, 1929.

Ser. No. 342,765. PAUL G. PEDDICORD, doing business as The Federal Electric Food Slicer Company, Dayton, Ohio. Filed Oct. 21, 1933.

FEDERAL

For Food Slicing Machines.
Claims use since May 8, 1933.

Ser. No. 342,779. SUPER SERVICE MFG. CO. INC., Kansas City, Mo. Filed Oct. 23, 1933.

SUPER SERVICE

Exclusive use of the word "Service" is disclaimed apart from the mark as shown in the drawing.
For Wrenches and Automobile Tire Changers.
Claims use since Nov. 1, 1929.

Ser. No. 342,996. THE ALUMINUM COOKING UTENSIL COMPANY, New Kensington, Pa. Filed Oct. 28, 1933.

Jiffy

For Hand-Operated Presses for Culinary Use, Including Hand-Operated Fruit Juice Extractors.
Claims use since December, 1931.

Ser. No. 343,004. THE PATTERSON FOUNDRY & MACHINE COMPANY, East Liverpool, Ohio. Filed Oct. 28, 1933.



For Porcelain Laboratory Jars Which May be Used as Drums for Laboratory Pebble-Mills, and for Porcelain Grinding Balls Designed for Use in Pebble-Mills and the Like.
Claims use since Jan. 1, 1931.

Ser. No. 343,098. W. G. B. OIL CLARIFIER, INC., Kingston, N. Y. Filed Oct. 31, 1933.

W.G.B. CLAROFIER OIL

THE ORIGINAL OIL CLARIFIER

The representation of the goods and all notations in the drawing excepting the letters "W. G. B." are disclaimed apart from the other features of the mark shown in the drawing.
For Device for Filtering and Clarifying Oil Used as an Accessory for Internal Combustion Engines.
Claims use since August, 1932.

Ser. No. 343,465. MINUTE SAFETY RAZOR CORPORATION, Newark, N. J. Filed Nov. 9, 1933.

TITAN

For Safety Razors and Safety Razor Blades.
Claims use since Sept. 15, 1933.

Ser. No. 343,467. MINUTE SAFETY RAZOR CORPORATION, Newark, N. J. Filed Nov. 9, 1933.



For Safety Razors and Safety Razor Blades.
Claims use since Jan. 10, 1933.

Ser. No. 343,468. MINUTE SAFETY RAZOR CORPORATION, Newark, N. J. Filed Nov. 9, 1933.

Toreador

For Safety Razors and Safety Razor Blades.
Claims use since Sept. 15, 1933.

Ser. No. 343,479. UTILITY BLADE CORPORATION, Maplewood, N. J. Filed Nov. 9, 1933.

CUTRITE

For Safety Razors and Safety Razor Blades.
Claims use since Apr. 25, 1933.

Ser. No. 343,480. UTILITY BLADE CORPORATION, Maplewood, N. J. Filed Nov. 9, 1933.



For Safety Razors and Safety Razor Blades.
Claims use since Apr. 25, 1933.

Ser. No. 343,493. THE CLEVELAND GRAPHITE BRONZE CO., Cleveland, Ohio. Filed Nov. 10, 1933.

CLEVITE

For Composite Soft Metal and Steel Bushings and Bearings and Copper-Lead Surfaced Steel Backed Bushings and Bearings.
Claims use since Aug. 2, 1933.

Ser. No. 343,508. S. H. KRESS & Co., New York, N. Y. Filed Nov. 10, 1933.



For Razor Blades.
Claims use since Sept. 1, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 341,563. STEWART-WARNER CORPORATION, Chicago, Ill. Filed Sept. 18, 1933.

Buddy

For Cameras, Motion Picture Projectors, Screens and Reels for Use Therewith.
Claims use since June 9, 1933.

Ser. No. 342,004. E. AND T. FAIRBANKS AND COMPANY, St. Johnsbury, Vt. Filed Sept. 29, 1933.



No claim is made to the use of the words "Scales" and "Trade Mark" apart from the mark as shown.
For Weighing Machines and Parts Thereof.
Claims use since Sept. 12, 1933.

Ser. No. 342,647. DU PONT FILM MANUFACTURING CORPORATION, New York, N. Y. Filed Oct. 19, 1933.

MICROPAN

For Photographic Film.
Claims use since Oct. 6, 1933.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 335,765. GEO. BORGFELDT & Co., New York, N. Y. Filed Mar. 17, 1933.

DAMASKINE

For Chinaware, Crockery, and Earthenware—Namely, Tableware, Dinner Sets, Fancyware, Candy Jars, Bon Bon Dishes, Vases, Jardinieres, Flower Pots and Boxes.
Claims use since Mar. 9, 1933.

Ser. No. 341,898. THE HALL CHINA COMPANY, East Liverpool, Ohio. Filed Sept. 26, 1933.



For Chinaware—Namely, Vitrified Chinaware, China Kitchenware, China Bakingware, China Cookingware, China Tableware, and Plain and Decorated Chinaware Comprising Apple Baking Dishes, Bake or Salad Pans, Baking Dishes, Casserolettes, Chili Bowls, Chocolate Tumblers, Cocottes, Comb and Brush Trays, Creamers, Cream Bottles, Custards, Drawn Butter Servers, Egg Cups, Fruit Cocktail Cups, Hospital Sets, Ice Cream Jars, Ice Tubs, Insets for Cold Tables, Insets for Steam Tables, Jelly Moulds, Jugs, Kitchen Bowls, Little Brown Jugs, Marmalade Jars, Mugs, Mustards, Nappies, Pans for Steam Tables, Petite Marmites, Pin Trays, Pot Pie or Pudding Dishes, Punch Bowls or Salad Bowls, Ramekins, Relish Dishes, Refrigerator Pans, Salad Dishes, Sauce Boats, Scle Dishes, Souffles, Sugars and Creamers, Sugars, Stew Pots, Teapots, Teapot Tiles, Twin-Tea Sets, Urn Liners, Vases, Water Servers, and Welsh Rarebit Dishes.
Claims use since Aug. 8, 1903.

CLASS 31

Filters and Refrigerators

Ser. No. 328,724. CEN-TENNIAL COTTON GIN CO., Columbus, Ga. Filed July 12, 1932.

KOLDA

For Ice Chests and Refrigerators.
Claims use since June 20, 1932.

Ser. No. 341,654. THE HECHT CO., doing business as The Hub and Hecht Bros., Washington, D. C., and Baltimore, Md. Filed Sept. 18, 1933.

SANICOLD

For Household and Store Refrigerators for the Preservation of Foodstuffs.
Claims use since Mar. 11, 1917.

Ser. No. 342,556. TENNESSEE FURNITURE CORPORATION, Chattanooga, Tenn. Filed Oct. 16, 1933.

WHITE SEAL

For Household and Store Refrigerators for the Preservation of Food Stuffs.
Claims use since Oct. 9, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 342,542. JACOB KRONHEIM, Cleveland, Ohio. Filed Oct. 16, 1933.

HAIR-TEX

No claim is made to the word "Hair" apart from the mark as shown in the drawing.
For Stuffing for Furniture.
Claims use since September, 1932.

Ser. No. 342,682. RAYMOND DEC. WEAKLEY, Miami, Fla. Filed Oct. 19, 1933.

LEZURHOUR

For Easels.
Claims use since June 5, 1933.

Ser. No. 343,403. THE KITCHEN MAID CORPORATION, Andrews, Ind. Filed Nov. 8, 1933.

TEMPERPREST

For Wood Table Tops and Wood Sink Tops and Drain Boards with and without Splash Backs and Ends.
Claims use since Dec. 31, 1932.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 343,204. THE COLEMAN LAMP AND STOVE COMPANY, Wichita, Kans. Filed Nov. 3, 1933.

BAND-A-BLU BURNER

The word "Burner" and the representation of the goods is disclaimed apart from the mark as shown.
For Vaporized Liquid Hydrocarbon Burners.
Claims use since Oct. 20, 1933.

Ser. No. 343,548. CAMPBELL & CARTER, Newark, N. J. Filed Nov. 11, 1933.

C & C OVENS

No claim is made to the representation of the goods and the word "Ovens" apart from the mark shown in the drawing.
For Ovens.
Claims use since June 11, 1933.

Ser. No. 343,742. REPUBLIC STEEL CORPORATION, Youngstown, Ohio. Filed Nov. 16, 1933.



The vertical shading indicates the color red. Applicant disclaims any exclusive right to the representation of the pipe shown in the drawing.
For Boiler and Condenser Tubes.
Claims use since Apr. 20, 1931.

CLASS 35

Belting, Hose, Machinery Packing, and Nonmetallic Tires

Ser. No. 327,505. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 27, 1932.

SENTINEL

For Resilient Vehicle Tires and Tubes of Rubber or Rubber Composition or Rubber and Fabric; Tube Repair Kits; Tube Patches and Tube Patching Gum.
Claims use since Apr. 29, 1930.

Ser. No. 334,099. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 19, 1933.

Sealtyte LEAK PROOF TUBE

No claim is made to the words "Leak-Proof", "Sealtyte" or "Tube" except in the mark as shown.
For Rubber or Rubber and Fabric Inner Tubes for Pneumatic Tire Casings.
Claims use since Nov. 20, 1932.

Ser. No. 342,769. SHELL OIL COMPANY, San Francisco, Calif. Filed Oct. 21, 1933.

SHELL

For Inner Tubes for Auto Tires.
Claims use since Oct. 4, 1933.

CLASS 37

Paper and Stationery

Ser. No. 342,121. A. P. W. PAPER COMPANY, INC., Albany, N. Y. Filed Oct. 4, 1933.

RED CROSS

For Paper for Toilet Purposes—Namely, Toilet Tissues and Paper Towels.
Claims use since 1897.

Ser. No. 342,122. A. P. W. PAPER COMPANY, INC., Albany, N. Y. Filed Oct. 4, 1933.



The representation of the carton per se is disclaimed. Applicant is the owner of United States trade-mark registrations as follows: No. 82,193 dated June 13, 1911, renewed June 13, 1931, and No. 297,632, dated September 20, 1932.
For Paper for Toilet Purposes—Namely, Paper Towels.
Claims use since Sept. 21, 1933.

Ser. No. 342,860. CANADIAN WALLPAPER MANUFACTURERS, LIMITED, Toronto, Ontario, Canada. Filed Oct. 25, 1933.

SUNWORTHY

For Wallpaper.
Claims use since August, 1926.

Ser. No. 343,164. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y. Filed Nov. 2, 1933.

BLACKWING

No claim is made to the exclusive use of the word "Black" apart from the mark shown in the drawing.
For Pencils.
Claims use since Feb. 21, 1933.

Ser. No. 343,300. THE PAPER SERVICE COMPANY, Lockland, Ohio. Filed Nov. 6, 1933.

X-CREPE

The word "Crepe" is disclaimed apart from the mark as shown.

For Creped Paper Characterized by Multi-Lateral Stretchability and Composite Fabrics Consisting of Creped Paper Joined to Other Textile Material, the Said Composite Fabrics Being Intended for Use in the Manufacture of Bags and the Like.

Claims use since July, 1932.

Ser. No. 343,948. BOURJOIS, INC., New York, N. Y. Filed Nov. 22, 1933.

peaches

For Tissue Paper Used for Skin Cleaning Purposes, Known as Cleansing Tissue.

Claims use since Nov. 7, 1933.

Ser. No. 343,951. BOURJOIS, INC., New York, N. Y. Filed Nov. 22, 1933.

FIANCEE

For Tissue Paper Used for Skin Cleaning Purposes, Known as Cleansing Tissue.

Claims use since Nov. 7, 1933.

Ser. No. 343,953. BOURJOIS, INC., New York, N. Y. Filed Nov. 22, 1933.

MANON LESCAUT

For Tissue Paper Used for Skin Cleaning Purposes, Known as Cleansing Tissue.

Claims use since Nov. 7, 1933.

Ser. No. 343,957. BOURJOIS, INC., New York, N. Y. Filed Nov. 22, 1933.

KARESS

For Tissue Paper Used for Skin Cleaning Purposes, Known as Cleansing Tissue.

Claims use since Nov. 7, 1933.

CLASS 38

Prints and Publications

Ser. No. 287,630. U. S. GOVERNMENT ADVERTISER, Washington, D. C. Filed July 24, 1929. Under 10-year proviso.

U. S. Government Advertiser

For a Journal Published Weekly.

Claims use since June 5, 1882.

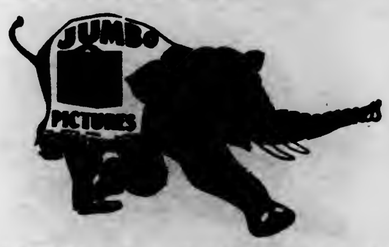
Ser. No. 337,209. CARL A. BECK, New York, N. Y. Filed Apr. 27, 1933.

PERSONAL ECONOMICS

For Prints and Publications, Particularly Training and Accounting Systems.

Claims use since Feb. 1, 1933.

Ser. No. 340,645. FLYING FILM COMPANY, INC., San Antonio, Tex. Filed Aug. 12, 1933.



The word "Pictures" is disclaimed for registration purposes apart from the mark shown in the drawing.

For Photographic Prints.

Claims use since Dec. 3, 1932.

Ser. No. 342,698. INVESTOGRAPHS, INC., Rochester, N. Y. Filed Oct. 20, 1933.

Trendographs

For Stock Market Charts.

Claims use since Sept. 13, 1933.

Ser. No. 343,786. OUTDOOR PUBLISHING COMPANY, New York, N. Y. Filed Nov. 17, 1933.

This Nude World

For Section of a Periodical.

Claims use since Sept. 26, 1933.

Ser. No. 343,787. OUTDOOR PUBLISHING COMPANY, New York, N. Y. Filed Nov. 17, 1933.

Nudist Life

For Section of a Magazine.

Claims use since Sept. 26, 1933.

Ser. No. 343,995. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Nov. 22, 1933.

SEEIN' STARS

For Newspaper or Magazine Section.

Claims use since Oct. 30, 1933.

CLASS 39

Clothing

Ser. No. 335,240. MAIDEN FORM BRASSIERE CO. INC., New York, N. Y. Filed Feb. 24, 1933.



Applicant disclaims the exclusive right to the words and also to the picture of a brassière appearing on the drawing apart from the mark shown.

For Brassières, Bandeaux, and Combination Undergarments—Namely, Corselettes, a Combination of Girdle and Brassière, Chemises, a Combination Corset and Brassière, a Combination of Underdrawers and Brassière, and Slips Embodying a Brassière.

Claims use since Feb. 20, 1933.

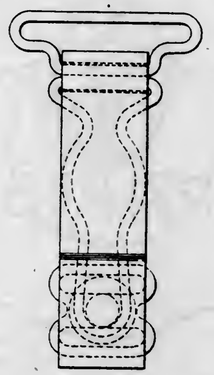
Ser. No. 335,996. CORBIN-HOLMES SHOE CO., Hudson, Mass. Filed Mar. 23, 1933.

SANI-TRED

For Insoles for Shoes Sold Separate and Apart from the Shoes.

Claims use since Mar. 3, 1933.

Ser. No. 336,524. THE ANSONIA O & C COMPANY, Ansonia, Conn. Filed Apr. 7, 1933.



The drawing is lined for blue. No claim is made to the representation of the goods per se. The trade-mark consists of a blue stripe extending transversely across the under side of the tab portion of the hose supporter grip.

For Hose Supporters.

Claims use since Mar. 29, 1933.

Ser. No. 337,205. WOLFE WEAR-U-WELL CORPORATION, Columbus, Ohio. Filed Apr. 26, 1933.



Right to the exclusive use of the words "Wear You Well" is disclaimed.

For Footwear of Rubber or Canvas or Rubber and Canvas—Namely, Boots, Shoes, Gaiters, Sandals, Rubbers, Gymnasium and Tennis Shoes.

Claims use since Jan. 16, 1933.

Ser. No. 338,299. FOREST LEON, Pittsburg, Kans. Filed May 27, 1933.

Lady Luck
SILK HOSIERY

The words "Silk Hosiery" are disclaimed apart from the mark as shown.

For Hosiery.

Claims use since Feb. 1, 1933.

Ser. No. 340,065. A. STEIN & COMPANY, Chicago, Ill. Filed July 24, 1933.



Applicant is owner of Reg. No. 75,265, renewed, for the trade-mark "Paris" registered under the 10-year proviso.

For Garters or Hose Supporters.

Claims use since Aug. 1, 1924.

Ser. No. 341,182. BERLIN GLOVE CO., Berlin, Wis. Filed Aug. 31, 1933.



For Slippers Made of Leather, Cloth, or Woolskin.

Claims use since Sept. 1, 1932.

Ser. No. 342,201. LOU SCHNEIDER, INC., New York, N. Y. Filed Oct. 6, 1933.



No registration rights are claimed herein for the words "Sport Coats" and "Tweed" apart from the mark as shown.

For Ladies' Coats.

Claims use since July 14, 1931.

Ser. No. 342,374. MOCK, JUDSON, VOEHRINGER CO., INC., Long Island City, N. Y. Filed Oct. 7, 1933.

"The Stocking with the MAGIC STRIP"

The words "The Stocking with the" and "Strip" are hereby disclaimed apart from the mark as shown in the drawing.

For Hosiery.

Claims use since Feb. 28, 1933.

Ser. No. 342,410. STEINBERGER BROS. GLOVE CORP., San Francisco, Calif., and New York, N. Y. Filed Oct. 12, 1933.



For Gloves of Leather and Fabric and Combinations Thereof.

Claims use since Sept. 2, 1933.

Ser. No. 342,411. STEINBERGER BROS. GLOVE CORP., San Francisco, Calif., and New York, N. Y. Filed Oct. 12, 1933.

ARISMODE

For Gloves of Leather and Fabric and Combinations Thereof.

Claims use since Sept. 2, 1933.

Ser. No. 342,412. STEINBERGER BROS. GLOVE CORP., San Francisco, Calif., and New York, N. Y. Filed Oct. 12, 1933.

ARISPORT

For Gloves of Leather and Fabric and Combinations Thereof.

Claims use since Sept. 2, 1933.

Ser. No. 342,814. HARRY RASKIN, INC., Savannah, Ga. Filed Oct. 23, 1933.



For Ladies' and Misses' Dresses and Frocks.

Claims use since July, 1931.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 343,195. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa. Filed Nov. 2, 1933.



No claim is made to the words "The" and "Shoe" apart from the mark as shown.

For Men's, Women's, Misses' and Children's Shoes, Made of Leather, Rubber, Fabric and/or Combinations Thereof.

Claims use since September, 1924.

Ser. No. 343,230. JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed Nov. 3, 1933.



No claim is made to the words "A Product of Superior Quality" apart from the mark shown on the drawing.

For Men's and Boys' Felt and Straw Hats and Cloth Caps, Men's Silk Hats, and Felt and Straw Hats for Women and Children.

Claims use since Sept. 29, 1933.

Ser. No. 343,277. GARFINKEL & RITTER, New York, N. Y. Filed Nov. 6, 1933.

THE
BRYN-FAIR
TRADE MARK

The term "Trade Mark" is disclaimed apart from the mark as shown on the drawing.

For Ladies Undergarments—Namely, Slips, Panties, and Chemises, Ladies Nightgowns, and Ladies Pajamas.

Claims use since Aug. 25, 1933.

Ser. No. 343,500. I. C. ISAACS & COMPANY, Baltimore, Md. Filed Nov. 10, 1933.



Applicant disclaims the descriptive terms "Fit All" and "Sport Togs" apart from the mark as shown on the drawing.

For Riding Breeches, Jodhpurs, and Riding Coats and Vests for Men, Women, and Children.

Claims use since Oct. 1, 1933.

Ser. No. 343,501. I. C. ISAACS & COMPANY, Baltimore, Md. Filed Nov. 10, 1933.



Applicant disclaims the descriptive terms "The House of Good Habits" and "Sport Togs" apart from the mark as shown on the drawing.

For Riding Breeches, Jodhpurs, and Riding Coats, and Vests for Men, Women, and Children.

Claims use since Jan. 1, 1933.

Ser. No. 343,856. COFFEY AND FITZGIBBONS, Philadelphia, Pa. Filed Nov. 20, 1933.

JANUS

For Hosiery.

Claims use since Oct. 2, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 342,056. THE AMERICAN LACE MFG. CO., Elyria, Ohio. Filed Oct. 2, 1933.



Applicant disclaims the right to the exclusive use of the word "Pattern" and the outline of the tag or label.
For Decorative Lace Scarfs, Doilies, Tablecloths, and Bedspreads.
Claims use since June 15, 1933.

Ser. No. 342,877. CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C. Filed Oct. 25, 1933. Under 10-year proviso.

CHATHAM

For Blankets, Sheets, Pillow Cases, and Piece Goods of Wool, Cotton, Silk, Rayon, and Combinations Thereof.
Claims use since 1877.

Ser. No. 343,199. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Nov. 3, 1933.

Bellaine

For Pile Fabrics in the Piece.
Claims use since Oct. 31, 1933.

Ser. No. 343,652. M. HAUSMAN & SONS, New York, N. Y. Filed Nov. 14, 1933.

BEAU-CEL

For Certain Piece Goods—Namely, Taffetas.
Claims use since October, 1929.

CLASS 43

Thread and Yarn

Ser. No. 342,854. SOCIETE A RESPONSABILITE LIMITEE J. THIRIEZ PERE ET FILS ET CARTIER-BRESSON, Lille, France. Filed Oct. 24, 1933.

L. V.

For Thread or Yarn Made of Cotton, Wool, Linen, Silk, Imitation Silk, Artificial Silk, Ramie, Jute.
Claims use since 1841.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 334,817. PARISIAN PLAQUE CORPORATION, New York, N. Y. Filed Jan. 25, 1933.

PARISIAN PLAQUE

For Abrasive Article Used as a Depilatory.
Claims use since Dec. 1, 1932.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 340,725. SANTA ANA PACKING CO., Santa Ana, Calif. Filed Aug. 15, 1933.

TREESWEET

The word "Sweet" is disclaimed apart from the mark as shown.
For Nonalcoholic, Maltless Fruit Juices Sold as Soft Drinks.
Claims use since July 27, 1933.

Ser. No. 343,944. BLUE RIDGE BOTTLING COMPANY, St. Louis, Mo. Filed Nov. 22, 1933.

RacingClub

For Carbonated Non-Alcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and for Syrups, Extracts, and Concentrates Used in Making the Same.
Claims use since Oct. 23, 1933.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 320,377. E. H. SPIEGL, Salinas, Calif. Filed Oct. 23, 1931.

ICE-PAK



The representation of the goods is disclaimed except in association with the mark as shown.
For Fresh Vegetables.
Claims use since June 11, 1931.

Ser. No. 332,743. UPLAND HEIGHTS ORANGE ASSOCIATION, Ontario, Calif. Filed Dec. 8, 1932.

RED X



The drawing is lined to represent the color red.
For Fresh Citrus Fruits.
Claims use since Feb. 1, 1910.

Ser. No. 335,826. THE W. E. LONG CO., doing business as The Holsum Bakery, Chicago, Ill. Filed Feb. 27, 1933.

OLD SETTLER

For Bread.
Claims use since June 30, 1923.

Ser. No. 336,059. RENE CYR, doing business as R. & L. Cyr Bros. Company, Lewiston, Maine. Filed Mar. 21, 1933.



No claim is made to the representation of a label per se. All of the wording is disclaimed apart from the mark, as shown on the drawing.
For Canned Sauce for Food Purposes.
Claims use since Feb. 1, 1929.

Ser. No. 336,972. YANKEE DOODLE BIRD PRODUCTS CO., INC., Dunreith, Ind. Filed Apr. 19, 1933.



No claim is made to the words "Dunreith, Indiana," except in the association shown in the drawing. No claim is made to color.
For Regular Mixed Bird Seed, Choice Mixed Bird Seed, Song Restorer, Color and Health Food.
Claims use since Mar. 14, 1933.

Ser. No. 337,851. HANLEY & KINSELLA COFFEE & SPICE COMPANY, St. Louis, Mo. Filed May 15, 1933.

KINSELLA PROCESS VACUUM

No exclusive claim is made to the words "Process" and "Vacuum" apart from the mark shown.
For Spices and Seasonings—Namely, Cayenne Pepper, Red Pepper, White Pepper, Black Pepper, Chili Pepper, Chili Powder, Paprika, Mace, Mustard, Mustard Seed, Caraway, Cloves, Pork Seasoning, Coriander, Cinnamon, Stick Cinnamon, Ceylon Cinnamon, Saigon Cinnamon, Batavia Cinnamon, Comino Seed, Sage, Turmeric, Allspice Marjoram, Ginger, Thyme, Onion Salt, Powdered Garlic,

Dehydrated Celery, Celery Salt, Celery Seed, Anise, Poultry Seasoning, Sausage Seasoning, Savory, Nutmeg, Pumpkin Pie Spice, Ground Cardamon, Cardamon Seed, Curry Powder, Bay Leaves, Pastry Spice, Poppy Seed, Rape Seed, Fennel Seed for Food Purposes, Hemp Seed, Dill Seed, Bird Seed, Capers, Steak Spice, Creole Spice, Cassia, Cassia Buds, Pimento, Laurel Leaves, Mixed Pickling Spice, and Whole Thyme.

Claims use since Mar. 15, 1933.

Ser. No. 338,631. WALLA WALLA CANNING COMPANY, Walla Walla, Wash. Filed June 7, 1933.



The trade-mark consists of a landscape in natural colors subdivided by a horisontal band upon which is printed in gold the words "Walla Walla Valley" in fanciful letters, the whole enclosed in a circular gold border which continues to border the band. The geographic term "Walla Walla Valley" is hereby disclaimed apart from the trade-mark as shown.

For Canned Fruits and Vegetables and Canned Tomato Juice.

Claims use since Aug. 27, 1932.

Ser. No. 340,239. QUALITY PRODUCTS CO., Chicago, Ill. Filed July 29, 1933.

PRIMO

For Potato Chips.

Claims use since Oct. 27, 1932.

Ser. No. 341,687. GIROUX CO., INC., New York, N. Y. Filed Sept. 19, 1933.

Apex

Applicant is the owner of Reg. No. 98,306.

For Olives, Sardines, Peanut-Butter, Salad Dressing, Worcestershire Sauce, Marshmallow Creme, Fruit Syrup Used for Food Purposes, Pancake Syrup, Cane Sugar Syrup, Strawberry Flavor Syrup.

Claims use since May 9, 1913.

Ser. No. 342,075. SAMUEL W. IRELAND, Atlantic City, N. J. Filed Oct. 2, 1933.

Pride of Ireland

For Coffee, Tea, and Cocoa.

Claims use since January, 1920.

Ser. No. 342,445. MAMMOTH SPRINGS CANNING COMPANY, Sussex, Wis. Filed Oct. 13, 1933.

GOLD-DISH

For Canned Vegetables.

Claims use since July 1, 1913.

Ser. No. 343,021. AMANA SOCIETY, Amana, Iowa. Filed Oct. 17, 1933.

AMANA QUALITY PRODUCTS

No claim is made to the words "Quality Products" as apart from the mark.

For Bread.

Claims use since September, 1932.

Ser. No. 343,519. PIONEER ICE CREAM BRANDS, INC., New York, N. Y. Filed Nov. 10, 1933.

Frostick

For Frozen Confections, including Ice Cream, Sherbets, and Water Ices.

Claims use since June 19, 1932.

Ser. No. 343,632. THE ZEROPACK COMPANY, Cincinnati, Ohio. Filed Nov. 13, 1933.

ZEROPAK

For Fresh Frozen Fruit—Namely, Apples, Peaches, Cherries and Strawberries.

Claims use since Oct. 16, 1933.

Ser. No. 343,839. ALBERT W. SISK & SON, Preston, Md. Filed Nov. 18, 1933. Under 10-year proviso.

Westminster

For Canned Vegetables.

Claims use since 1892.

Ser. No. 343,860. A. J. GAHAN, doing business as Canine Food Company, San Francisco, Calif. Filed Nov. 20, 1933.

WAG

For Canned Dog and Cat Food.

Claims use since June 1, 1933.

Ser. No. 343,878. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Nov. 20, 1933.

HAWKEYE

For Wheat Flour, Rolled Oats, Poultry Feed—Namely, Egg Mash, and Scratch Grains, and Oatmeal Mill By-Products Used as Stock Feed.

Claims use since Apr. 5, 1907, on poultry and stock feeds; since February, 1898, on rolled oats; and since June, 1887, on wheat flour.

Ser. No. 343,933. SCUDDERS-GALE GROCER COMPANY, doing business as Milkmaid Products Co., St. Louis, Mo. Filed Nov. 21, 1933.

Milkmaid

For Baking Powder.

Claims use since 1896.

CLASS 47

Wines

Ser. No. 338,659. J. CARVALHO MACEDO, LIMITADA, Villa Nova de Gaya, Portugal. Filed June 8, 1933. Under 10-year proviso.



No claim is made to the words "Marca Registrada."

For Wines.

Claims use since 1861.

Ser. No. 338,942. SICHEL & COMPANY, London, England. Filed June 17, 1933.

BEL ENCLOS

For Wines.

Claims use since Jan. 30, 1925.

Ser. No. 338,943. SICHEL & COMPANY, London, England. Filed June 17, 1933.



The lines on the drawing are for shading purposes only.

For Wines.

Claims use since Dec. 1, 1883.

Ser. No. 338,944. SICHEL & COMPANY, London, England. Filed June 17, 1933.



The lines shown on the drawing are for shading only.
No claim is made to the word "Sauternes".
For Sauterne Wine.
Claims use since Dec. 31, 1925.

Ser. No. 340,419. H. SICHEL & SONS LIMITED, London, England. Filed Aug. 4, 1933.



No claim is made to the words "Moselle Wine" and "Finest Made," and no claim is made to the exclusive use of the words "Pink Seal".
For Moselle Wine.
Claims use since June, 1930.

Ser. No. 341,571. H. T. DEWEY & SONS Co., New York, N. Y. Filed Sept. 14, 1933. Under 10-year proviso.



For Wines.
Claims use since January, 1893.

Ser. No. 341,611. TRANSCONTINENTAL AGENCIES LTD., London, England. Filed Sept. 15, 1933. Under 10-year proviso.

HOOPER'S

For Wines.
Claims use since 1777.

Ser. No. 342,153. CHAMPAGNE MUMM & CO., Epernay, France. Filed Oct. 5, 1933.



Applicant makes no claim to the words "a Epernay (France)" or "Epernay" apart from the mark shown.
For Wines of All Types and Descriptions, Sparkling and Still, Including Champagnes.
Claims use since Dec. 15, 1932.

Ser. No. 342,269. THEODORE ROBERT HAMILTON, Brantford, Ontario, Canada. Filed Oct. 9, 1933.



For Champagne or Sparkling Wine.
Claims use since 1897.

Ser. No. 342,270. THEODORE ROBERT HAMILTON, Brantford, Ontario, Canada. Filed Oct. 9, 1933.



For Wine.
Claims use since 1878.

Ser. No. 342,662. E & F NEWALL LTD., London, England. Filed Oct. 19, 1933.



No claim is made to the word "Brand".
For Wines.
Claims use since 1898.

Ser. No. 342,853. SOCIETE ANONYME ALLIANCE VINICOLE DE BOURGOGNE, Bourgogne, France. Filed Oct. 24, 1933.



No exclusive claim is made to the figures signifying the year 1926, nor to the representation of a label per se.
For Still and Sparkling Wines.
Claims use since Apr. 15, 1933.

Ser. No. 343,461. MATHEUS MÜLLER KOMMANDIT-GESELLSCHAFT AUF AKTIEN, Eltville-on-the-Rhine, Germany. Filed Nov. 9, 1933.



For Wines.
Claims use since 1918.

Ser. No. 343,559. FÜRSTLICH VON METTERNICH-WINNEBURG' SCHES DOMÄNE-RENTAMT, Johannesberg, Germany. Filed Nov. 11, 1933.



No claim is made to the words "Cabinet-Wein."
For Wines.
Claims use since March, 1905.

Ser. No. 343,582. CASTLE & Co., LIMITED, London, England. Filed Nov. 13, 1933.



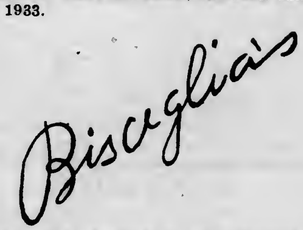
No claim is made to the words "Wine Merchants."
For Wines.
Claims use since Dec. 15, 1932.

Ser. No. 343,622. NIXON & Co., Villa Nova de Gaya, Portugal. Filed Nov. 13, 1933.

Toastmaster's Port

No claim is made to the word "Port."
For Port Wine.
Claims use since Oct. 1, 1928.

Ser. No. 343,718. BISCEGLIA BROS., San Jose, Calif. Filed Nov. 16, 1933.



Trade mark is a facsimile of the signature of Pasquale Bisceglia, deceased.
For Wines.
Claims use since May 1, 1932.

Ser. No. 343,908. BENEDICT-SWENSON Co., Los Angeles, Calif. Filed Nov. 21, 1933.

EL CORONADO

For Wines.
Claims use since July 12, 1933.

Ser. No. 344,007. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Nov. 22, 1933. Under 10-year proviso.

GONZALEZ BYASS & Co
Jerez de la Frontera

For Wines.
Claims use since 1869.

Ser. No. 344,006. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Nov. 22, 1933.

GONZALEZ

May Fair

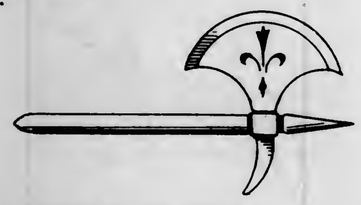
For Wines.
Claims use since 1912.

Ser. No. 344,013. SOCIETE ANONYME CHAMPAGNE ERNEST IRROY, Reims, France. Filed Nov. 22, 1933. Under 10-year proviso.

BLACK TOP

For Champagne and Sparkling Wines.
Claims use since November, 1887.

Ser. No. 344,014. SOCIETE ANONYME CHAMPAGNE ERNEST IRROY, Reims, France. Filed Nov. 22, 1933. Under 10-year proviso.



For Champagne and Sparkling Wines.
Claims use since 1820.

Ser. No. 344,059. MARTINI & ROSSI S. A., Turin, Italy. Filed Nov. 23, 1933.

MARTINI

Applicant is owner of Reg. No. 185413 under the two-year proviso. The lining on the drawing indicates the color red.
For Vermouth, Sparkling and Still Wines and Prepared Wines as Appetizers.
Claims use since July 29, 1929.

CLASS 48

Malt Beverages and Liquors

Ser. No. 340,789. BREMER BRAUEREI A.-G., Bremen, Germany. Filed Aug. 18, 1933.



No claim is made to the wording appearing on the drawing with the exception of the corporate name of the applicant. The drawing is lined for red and blue.
For Beer.
Claims use since Sept. 17, 1894.

Ser. No. 342,287. RADEBERGER EXPORTBIERBRAUEREI AKTIENGESELLSCHAFT, RADEBERG, Dresden, Germany. Filed Oct. 9, 1933.



For Malt Beverages of Not More Than the Legal Alcoholic Content.
Claims use since June, 1931.

Ser. No. 342,528. THE CUMBERLAND BREWING COMPANY OF ALLEGANY COUNTY, MARYLAND, Cumberland, Md. Filed Oct. 16, 1933. Under 10-year proviso.

OLD EXPORT

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since January, 1890.

Ser. No. 342,831. AMERICAN BREWING CO. OF ROCHESTER, N. Y. INC., Rochester, N. Y. Filed Oct. 24, 1933.

Give me Liberty

For Beer.
Claims use since Apr. 7, 1933.

Ser. No. 343,163. DIAMOND SPRING BREWERY, Lawrence, Mass. Filed Nov. 2, 1933.

DIAMOND SPRING



For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Aug. 19, 1912.

Ser. No. 343,211. LA CROSSE BREWERIES INC., La Crosse, Wis. Filed Nov. 3, 1933.

AYLSHIRE PALE

No claim is made to the word "Pale" apart from the mark as shown in the drawing.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Oct. 18, 1933.

Ser. No. 343,376. THE JOHN EICHLER BREWING CO., New York, N. Y. Filed Nov. 6, 1933.



For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1876.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 339,811. CASTILLON & COMPANY, Cognac, France. Filed July 17, 1933.

CASTILLON

For Brandy.
Claims use since June 30, 1814.

Ser. No. 339,812. CASTILLON & COMPANY, Cognac, France. Filed July 17, 1933.



No claim is made to the words "Cognac" and "Trade Mark."
For Brandy.
Claims use since June 30, 1814.

Ser. No. 339,813. CASTILLON & COMPANY, Cognac, France. Filed July 17, 1933.



No claim is made to any of the words appearing on the drawing with the exception of applicant's corporate name and "Estd. 1814".
For Brandy.
Claims use since June 30, 1814.

Ser. No. 339,857. BOOTH'S DISTILLERIES LIMITED, London, England. Filed July 18, 1933. Under 10-year proviso.

BOOTH'S

For Gin, Orange Bitters, Cherry Brandy, Ginger Brandy, Alcoholic Peppermint, Distilled Alcoholic Cocktails, Rum, and Whisky.
Claims use since 1740.

Ser. No. 340,434. COMBER DISTILLERIES CO., LIMITED, Belfast and Comber, Ireland. Filed Aug. 5, 1933.

OLD COMBER WHISKEY

PURE POT STILL

TRADE MARK

BOTTLED BY THE DISTILLERS

COMBER DISTILLERIES CO. LTD.
COMBER,
IRELAND

ESTD 1825

Applicant disclaims the wording shown except in the precise relation and association in which such wording appears herein.
For Whiskey.
Claims use since Feb. 1, 1908.

Ser. No. 340,720. FLLI GANCIA & C., Canelli, Italy. Filed Aug. 15, 1933. Under 10-year proviso.

GANCIA

For Vermouth, Distilled Alcoholic Bitters and Cocktails, and Other Alcoholic Distilled Potable Liquors.
Claims use since 1850.

Ser. No. 341,264. EDWARD L. MAHONEY, Baltimore, Md. Filed Sept. 2, 1933.

Mount Vernon
Pure Rye
Whiskey
Bottled in United States
by Edward L. Mahoney.
Baltimore, Md.

No claim is made to any of the words appearing on the drawing with the exception of the name, "Mount Vernon."
For Pure Rye Whiskey.
Claims use since 1919.

Ser. No. 341,897. GLENMORE DISTILLERIES CO., Owensboro, Ky. Filed Sept. 26, 1933.

GLENMORE

For Whiskey.
Claims use since 1901.

Ser. No. 341,996. UNITED DISTILLERS CORPORATION, New York, N. Y. Filed Sept. 28, 1933.

Mount Vernon

For Brandy, Gin, Whiskey, and Other Potable Distilled Spirits.
Claims use since 1919.

Ser. No. 342,243. SOUTHARD & CO. LIMITED, London, England. Filed Oct. 7, 1933. Under 10-year proviso.

SOUTHARD'S

For Spirits—Namely, Gin, Rum, and Whisky.
Claims use since 1865.

Ser. No. 342,405. WILLIAM SANDERSON & SON, LIMITED, Leith, Scotland. Filed Oct. 12, 1933.

Wm. Sanderson & Son. LEITH.

ESTD 1863
RARE OLD SCOTCH WHISKY
Bottled and blended by
Wm. Sanderson & Son.
LEITH.

No claim is made to any of the words appearing on the drawing with the exception of the name of the applicant and the words "Estd. 1863."
For Whisky.
Claims use since 1907.

Ser. No. 342,443. JUILLARD, INCORPORATED, San Francisco, Calif. Filed Oct. 13, 1933.

OLD PIONEER

For Whiskey.
Claims use since Aug. 10, 1933.

Ser. No. 342,713. JOS. A. MAGNUS & COMPANY, Cincinnati, Ohio. Filed Oct. 20, 1933.

MURRAY HILL CLUB

No claim is made to the exclusive use of the word "Club."
For Whiskey.
Claims use since 1899.

Ser. No. 342,735. CONSOLIDATED DISTILLERIES, LIMITED, Montreal, Quebec, Canada. Filed Oct. 21, 1933.

ESTD 1857

Wiser's
Old
Rye Whisky
Distilled and Bottled by
Wiser's Distillery
Limited
PRESCOTT, ONTARIO, CANADA

No claim is made to any of the words appearing on the drawing with the exception of "Wiser's," in the form shown, "Estd. 1857", and the letter "W."
For Whisky and Other Potable Distilled Liquors.
Claims use since Aug. 11, 1928.

Ser. No. 342,839. CHIVAS BROTHERS, Aberdeen, Scotland. Filed Oct. 24, 1933. Under 10-year proviso.

CHIVAS' REGAL

For Whisky.
Claims use since 189-.

Ser. No. 343,071. LAIRD & COMPANY, Scobeyville and Eatontown, N. J. Filed Oct. 31, 1933.

COLTS NECK

For Brandy.
Claims use since Oct. 23, 1933.

Ser. No. 343,072. LAIRD & COMPANY, Scobeyville and Eatontown, N. J. Filed Oct. 31, 1933.

FOUR-HIGH

For Brandy.
Claims use since Oct. 23, 1933.

Ser. No. 343,075. LAIRD & COMPANY, Scobeyville and Eatontown, N. J. Filed Oct. 31, 1933.

JERSEY LIGHTNIN'

For Brandy.
Claims use since Oct. 23, 1933.

Ser. No. 343,154. AMBROSE & COMPANY, Pueblo, Colo. Filed Nov. 2, 1933.

CEDAR BROOK

For Whiskey.
Claims use since Aug. 1, 1933.

Ser. No. 343,156. BLOCH BROS., Glasgow, Scotland. Filed Nov. 2, 1933.

AMBASSADOR

For Whisky.
Claims use since Dec. 10, 1919.

Ser. No. 343,158. BRITISH DISTILLERS CORPORATION OF NEW YORK, New York, N. Y. Filed Nov. 2, 1933.

EL-BART
Dry Gin

No claim is made to the words "Brand" and "Dry Gin".
For Gin.
Claims use since August, 1933.

Ser. No. 343,352. LAIRD & COMPANY, Scobeyville and Eatontown, N. J. Filed Nov. 7, 1933.

APPLE JUG

No claim is made to the representation of the jug or label per se.
For Brandy.
Claims use since Oct. 23, 1933.

Ser. No. 343,392. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 8, 1933.

BLACKSTONE

No claim is made to the word "Blackstone" apart from the mark shown in the drawing.
For Whiskey and Other Potable Distilled Spirits.
Claims use since Feb. 6, 1931.

Ser. No. 343,446. THE FREIBERG & WORKUM CO., Cincinnati, Ohio. Filed Nov. 9, 1933. Under 10-year proviso.

Highland

For Whiskey.
Claims use since 1869.

Ser. No. 343,568. NAPA VALLEY WINE & BRANDY COMPANY, Baltimore, Md. Filed Nov. 11, 1933.



No claim is made to the words "Napa Valley" apart from the mark shown in the drawing.
For Whiskey, Brandy, and Other Potable Distilled Spirits.
Claims use since Dec. 20, 1932.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 342,336. GEORGE E. BELCHER COMPANY, Stoughton, Mass. Filed Oct. 11, 1933. Under 10-year proviso.

BELCHER

For Shoe Lasts and Shoe Trees.
Claims use since 1893.

Ser. No. 342,923. THE REPUBLIC RUBBER COMPANY, Youngstown, Ohio. Filed Oct. 24, 1933.

PNEU-PAD

The word "Pad" is disclaimed apart from the mark shown.
For Rubber Composition Padding of All Kinds Such as is Used Under Rugs and on Chairs, and also for Sealing Strips, Insulation, Cushioning, and Upholstering.
Claims use since Aug. 28, 1931.

Ser. No. 342,924. THE REPUBLIC RUBBER COMPANY, Youngstown, Ohio. Filed Oct. 24, 1933.

PNEU-TILE

The word "Tile" is disclaimed apart from the mark shown.
For Floor and Table Coverings of Rubber Composition Sold in the Piece.
Claims use since Nov. 23, 1931.

Ser. No. 343,410. READING RUBBER MANUFACTURING COMPANY, Reading, Mass. Filed Nov. 8, 1933.

RE-DO-SWADE

No registration rights are claimed for the word "Swade" apart from the mark shown on the drawing.
For Rubberized Fabrics.
Claims use since July 21, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JANUARY 2, 1934

309,066. WHISKEY. THE FRANKFORT DISTILLERY, INC., Louisville, Ky., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky., a corporation of West Virginia.
Filed August 4, 1933. Serial No. 340,393. PUBLISHED SEPTEMBER 12, 1933. Class 49.

309,067. WHISKEY. THE FRANKFORT DISTILLERY, INC., Louisville, Ky., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky., a corporation of West Virginia.
Filed August 4, 1933. Serial No. 340,394. PUBLISHED OCTOBER 24, 1933. Class 49.

309,068. EXTERIOR HOUSE PAINTS, INTERIOR HOUSE PAINTS, FLOOR PAINTS, PAINT ENAMELS, OIL COLORS, CALCIMINE, PREPARED SHELLAC, VARNISH, TURPENTINE, AND PAINT DRYERS. J. M. KOHLMEIER, INC., Long Island City and New York, N. Y.
Filed August 4, 1933. Serial No. 340,401. PUBLISHED OCTOBER 17, 1933. Class 16.

309,069. RAZOR BLADES. HARRY BERSE, New York, N. Y.
Filed August 9, 1933. Serial No. 340,511. PUBLISHED OCTOBER 17, 1933. Class 23.

309,070. RAZOR BLADES. HARRY BERSE, New York, N. Y.
Filed August 9, 1933. Serial No. 340,512. PUBLISHED OCTOBER 17, 1933. Class 23.

309,071. RAZOR BLADES. HARRY BERSE, New York, N. Y.
Filed August 9, 1933. Serial No. 340,513. PUBLISHED OCTOBER 17, 1933. Class 23.

309,072. RAZOR BLADES. HARRY BERSE, New York, N. Y.
Filed August 9, 1933. Serial No. 340,514. PUBLISHED OCTOBER 17, 1933. Class 23.

309,073. RAZOR BLADES. HARRY BERSE, New York, N. Y.
Filed August 9, 1933. Serial No. 340,515. PUBLISHED OCTOBER 17, 1933. Class 23.

309,074. SUSPENSIONS; SOLUTIONS AND SUSPENSIONS FOR TREATING THE SKIN, MUCOUS MEMBRANES, ETC. MEDICONE COMPANY, INC., New York, N. Y.
Filed August 9, 1933. Serial No. 340,564. PUBLISHED OCTOBER 3, 1933. Class 6.

309,075. WHISKY. BLOCH BROS., Glasgow, Scotland.
Filed August 10, 1933. Serial No. 340,570. PUBLISHED OCTOBER 24, 1933. Class 49.

309,076. RAZOR BLADES. HARRY BERSE, New York, N. Y.
Filed August 11, 1933. Serial No. 340,596. PUBLISHED OCTOBER 17, 1933. Class 23.

309,077. MEDICINAL ELIXIRS AND CAPSULES USEFUL AS A HEMATINIC AND NERVE TONIC. ROBERT LINCOLN MCNEIL, doing business as Robert McNeil, Philadelphia, Pa., assignor to McNeil Laboratories, Inc., Philadelphia, Pa., a corporation of Pennsylvania.
Filed July 11, 1933. Serial No. 339,637. PUBLISHED SEPTEMBER 12, 1933. Class 6.

309,078. CUTLERY—PARTICULARLY BAYONETS, POCKET KNIVES, SHEATH KNIVES, BUTCHER AND HOUSEHOLD KNIVES, TABLE KNIVES AND FORKS AND CARVING SETS OF BASE METAL, AND SHEARS, AND PARTS THEREOF. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed September 1, 1933. Serial No. 341,243. PUBLISHED OCTOBER 17, 1933. Class 23.

309,079. WINES. JORDAN WINE COMPANY LIMITED, Jordan, Ontario, Canada.
Filed September 1, 1933. Serial No. 341,248. PUBLISHED OCTOBER 24, 1933. Class 47.

309,080. GAME CONSISTING OF A PADDLE WITH AN OPENING THERETHRU AND A BALL ATTACHED THERETO WITH AN ELASTIC CORD. WILLIAM S. LUCKETT, New York, N. Y.
Filed September 1, 1933. Serial No. 341,250. PUBLISHED OCTOBER 24, 1933. Class 22.

309,081. CLOSET SEATS AND CLOSET SEAT BUMPERS. KOHLER CO., Kohler, Wis.
Filed September 2, 1933. Serial No. 341,294. PUBLISHED OCTOBER 24, 1933. Class 13.

309,082. GIN, LIQUEURS, BITTERS, BRANDY, COGNAC, RUM, AND ARRACK. N. V. LIKEURSTOKERIJ WIJNAND FOCKINK, Amsterdam, Netherlands.
Filed September 2, 1933. Serial No. 341,295. PUBLISHED OCTOBER 24, 1933. Class 49.

309,083. GIN, LIQUEURS, BITTERS, BRANDY, COGNAC, RUM, AND ARRACK. N. V. LIKEURSTOKERIJ WIJNAND FOCKINK, Amsterdam, Netherlands.
Filed September 2, 1933. Serial No. 341,297. PUBLISHED OCTOBER 24, 1933. Class 49.

309,084. WINES. JACOB REICHER, Baltimore, Md.
Filed September 2, 1933. Serial No. 341,305. PUBLISHED OCTOBER 24, 1933. Class 47.

309,085. WINES. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y.
Filed September 5, 1933. Serial No. 341,326. PUBLISHED OCTOBER 24, 1933. Class 47.

309,086. BRAKE LININGS, BRAKE BLOCKS, AND CLUTCH FACINGS. MULTIBESTOS COMPANY, North Cambridge, Mass.
Filed September 5, 1933. Serial No. 341,335. PUBLISHED OCTOBER 17, 1933. Class 35.

309,087. MATCHES. THE DIAMOND MATCH COMPANY, New York, N. Y.
Filed September 6, 1933. Serial No. 341,357. PUBLISHED OCTOBER 24, 1933. Class 9.

309,088. WINES. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y.
Filed September 5, 1933. Serial No. 341,327. PUBLISHED OCTOBER 24, 1933. Class 47.

309,089. GAS COCKS. MUELLER BRASS CO., Port Huron, Mich.
Filed September 5, 1933. Serial No. 341,334. PUBLISHED OCTOBER 24, 1933. Class 13.

309,090. BRAKE LININGS, BRAKE BLOCKS AND CLUTCH FACINGS. MULTIBESTOS COMPANY, North Cambridge, Mass.
Filed September 5, 1933. Serial No. 341,336. PUBLISHED OCTOBER 17, 1933. Class 35.

309,091. GAME TABLES. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed September 7, 1933. Serial No. 341,390. PUBLISHED OCTOBER 24, 1933. Class 22.

309,092. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. WILLIAM O. CHAPMAN, Washington, D. C.
Filed September 7, 1933. Serial No. 341,394. PUBLISHED OCTOBER 24, 1933. Class 45.

309,093. DECORATED DISKS USED AS PLAY MONEY. WALTER H. ROLL, Kansas City, Mo.
Filed September 7, 1933. Serial No. 341,406. PUBLISHED OCTOBER 24, 1933. Class 22.

309,094. WINES. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y.
Filed September 7, 1933. Serial No. 341,415. PUBLISHED OCTOBER 24, 1933. Class 47.

309,095. POSTER INK AND DRAWING INK. AULT & WIBORG CARBON & RIBBON CO., INC., Cincinnati, Ohio.
Filed September 8, 1933. Serial No. 341,418. PUBLISHED OCTOBER 24, 1933. Class 11.

309,096. WINES. H. T. DEWEY & SONS CO., New York, N. Y.
Filed September 9, 1933. Serial No. 341,453. PUBLISHED OCTOBER 24, 1933. Class 47.

309,097. WINES. H. T. DEWEY & SONS CO., New York, N. Y.
Filed September 9, 1933. Serial No. 341,454. PUBLISHED OCTOBER 24, 1933. Class 47.

309,098. CLOCKS AND WATCHES. WATERBURY CLOCK COMPANY, Waterbury, Conn.
Filed September 12, 1933. Serial No. 341,532. PUBLISHED OCTOBER 24, 1933. Class 27.

309,099. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. THE FITGER COMPANY, Duluth, Minn., now by change of name "Fitger Brewing Company".
Filed September 13, 1933. Serial No. 341,546. PUBLISHED OCTOBER 24, 1933. Class 48.

309,100. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. THE FITGER COMPANY, Duluth, Minn., now by change of name "Fitger Brewing Company".
Filed September 13, 1933. Serial No. 341,547. PUBLISHED OCTOBER 24, 1933. Class 48.

309,101. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. THE FITGER COMPANY, Duluth, Minn., now by change of name "Fitger Brewing Company".
Filed September 13, 1933. Serial No. 341,548. PUBLISHED OCTOBER 24, 1933. Class 48.

309,102. GOLF CLUBS. HILLERICH & BRADSBY CO., Louisville, Ky.
Filed September 13, 1933. Serial No. 341,552. PUBLISHED OCTOBER 24, 1933. Class 22.

309,103. DOLLS. IDEAL NOVELTY & TOY CO., Brooklyn, N. Y.
Filed September 13, 1933. Serial No. 341,554. PUBLISHED OCTOBER 24, 1933. Class 22.

309,104. CIGARETTES. WALKER P. MONTGOMERY, doing business as Southern Tobacco Products Company, Valdosta, Ga.
Filed September 13, 1933. Serial No. 341,558. PUBLISHED OCTOBER 24, 1933. Class 17.

309,105. BEER OF LEGAL ALCOHOLIC CONTENT. LAFAYETTE BREWERY, INC., La Fayette, Ind.
Filed September 14, 1933. Serial No. 341,578. PUBLISHED OCTOBER 24, 1933. Class 48.

309,106. CANDIES AND CHOCOLATES. JOSEPHSOHN CANDY CO., INC., Long Island City, N. Y.
Filed August 11, 1933. Serial No. 340,617. PUBLISHED OCTOBER 17, 1933. Class 46.

309,107. CHAMPAGNE WINES AND SPARKLING WINES. J. W. REISH, Paris, France.
Filed August 11, 1933. Serial No. 340,624. PUBLISHED OCTOBER 24, 1933. Class 47.

309,108. PAINTS, VARNISHES, ENAMELS, ETC. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed August 12, 1933. Serial No. 340,657. PUBLISHED OCTOBER 17, 1933. Class 16.

309,109. WHISKEY. THE FRANKFORT DISTILLERY, INC., Louisville, Ky., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky., a Corporation of West Virginia.
Filed August 14, 1933. Serial No. 340,679. PUBLISHED OCTOBER 24, 1933. Class 49.

309,110. WINES. SOC. AN. BODEGAS BILBAINAS, Bilbao, Spain.
Filed August 14, 1933. Serial No. 340,698. PUBLISHED OCTOBER 24, 1933. Class 47.

309,111. PESSARIES. DUREX PRODUCTS INC., New York, N. Y.
Filed August 14, 1933. Serial No. 340,705. PUBLISHED OCTOBER 24, 1933. Class 44.

309,112. SALAD AND OLIVE OILS. MODERN PACKING CO., Brooklyn, N. Y.
Filed August 15, 1933. Serial No. 340,722. PUBLISHED OCTOBER 17, 1933. Class 46.

309,113. PASTE AND READY-MIXED PAINTS, LACQUERS, PAINT ENAMELS, VARNISHES, QUICK DRYING LINOLEUM VARNISHES, AND LINOLEUM COATINGS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed August 15, 1933. Serial No. 340,726. PUBLISHED OCTOBER 17, 1933. Class 16.

309,114. PADDING, TABBING, AND BOOKBINDING CEMENT. THE ARABOL MANUFACTURING COMPANY, New York, N. Y.
Filed August 17, 1933. Serial No. 340,765. PUBLISHED OCTOBER 17, 1933. Class 5.

309,115. TABLE SALT. THE CAREY SALT CO., Hutchinson, Kans.
Filed August 17, 1933. Serial No. 340,767. PUBLISHED OCTOBER 17, 1933. Class 46.

309,116. DOG FOOD. ST. LOUIS SEED COMPANY, St. Louis, Mo.
Filed August 17, 1933. Serial No. 340,773. PUBLISHED OCTOBER 17, 1933. Class 46.

309,117. CLAMPS, AND SUPPORTS FOR PIPES, BARS, TUBES, RODS, AND THE LIKE, VICES, MANUAL AND POWER DRIVEN CUTTING, THREADING, AND REAMING MACHINES AND PARTS THEREOF. THE TOLEDO PIPE THREADING MACHINE COMPANY, Toledo, Ohio.
Filed August 17, 1933. Serial No. 340,776. PUBLISHED OCTOBER 17, 1933. Class 23.

309,118. RUBBER TYPEWRITER ERASERS. LOUIS J. HART, doing business as Sta-Put Eraser Co., New York, N. Y.
Filed August 18, 1933. Serial No. 340,794. PUBLISHED OCTOBER 17, 1933. Class 37.

309,119. VACUUM INSULATED CANS AND BOTTLES FOR MAINTAINING THE TEMPERATURE OF FOODS OR LIQUIDS. THE SHELLWOOD-JOHNSON COMPANY, Paterson, N. J.
Filed August 18, 1933. Serial No. 340,817. PUBLISHED OCTOBER 24, 1933. Class 2.

309,120. PORT WINE. FEUERHEERD BROTHERS & COMPANY, LIMITED, St. Helier, Jersey, Channel Islands.
Filed August 21, 1933. Serial No. 340,869. PUBLISHED OCTOBER 24, 1933. Class 47.

309,121. SURFACER IN THE FORM OF A PLASTIC COMPOSITION FOR FILLING CRACKS, NICKS, MARS, AND SCRATCHES, TO BE USED ON PAINTED, LACQUERED, OR PLAIN SURFACES. WEBB PRODUCTS CO., INC., San Bernardino, Calif.
Filed August 21, 1933. Serial No. 340,906. PUBLISHED OCTOBER 17, 1933. Class 16.

309,122. INDEX TABS, INDEXES, AND GUIDES. WILSON-JONES COMPANY, Chicago, Ill.
Filed August 21, 1933. Serial No. 340,907. PUBLISHED OCTOBER 17, 1933. Class 37.

309,123. PUBLICATION PUBLISHED MONTHLY OR FROM TIME TO TIME. JOSEPH DUBIN, doing business as Brewery Age Publishing Company, Chicago, Ill.
Filed August 21, 1933. Serial No. 340,910. PUBLISHED OCTOBER 17, 1933. Class 38.

309,124. OUTBOARD MOTORS AND MARINE ENGINES. JOHNSON MOTOR COMPANY, Waukegan, Ill.
Filed August 23, 1933. Serial No. 340,950. PUBLISHED OCTOBER 17, 1933. Class 23.

309,125. STORY MAGAZINE. TWO-BOOKS MAGAZINES, INC., New York, N. Y.
Filed August 23, 1933. Serial No. 340,958. PUBLISHED OCTOBER 17, 1933. Class 38.

309,126. AWNING CORD, BINDER TWINE, BRAIDED LACING CORD, CLOTHES LINES, FLORIST TWINE, HAWSER AND CABLE CORD, HOSE CORD FOR WATER, STEAM, AND AIR HOSE, LACING CORD (FOR CARDS ON JACQUARD LOOMS) MATTRESS TWINE, PLOW LINES, ROPE, SASH CORD, SEINE TWINE, SEWING AND STITCHING TWINE, TIRE CORD ON CONES, WRAPPING TWINE. CALLAWAY MILLS, Lagrange, Ga.
Filed August 31, 1933. Serial No. 341,188. PUBLISHED OCTOBER 24, 1933. Class 7.

309,127. MERCERIZED THREAD AND SPOOL COTTON. SEA ISLAND THREAD MFG. CORP., New York, N. Y.
Filed September 1, 1933. Serial No. 341,225. PUBLISHED OCTOBER 17, 1933. Class 48.

309,128. ALCOHOLIC BITTERS. GEORGE BENZ SONS, INC., St. Paul, Minn.
Filed September 1, 1933. Serial No. 341,229. PUBLISHED OCTOBER 24, 1933. Class 49.

309,129. WHISKY. GEORGE BENZ SONS, INC., St. Paul, Minn.
Filed September 1, 1933. Serial No. 341,231. PUBLISHED OCTOBER 17, 1933. Class 49.

309,130. WHISKY. GEORGE BENZ SONS, INC., St. Paul, Minn.
Filed September 1, 1933. Serial No. 341,232. PUBLISHED OCTOBER 17, 1933. Class 49.

309,131. WHISKY. GEORGE BENZ SONS, INC., St. Paul, Minn.
Filed September 1, 1933. Serial No. 341,233. PUBLISHED OCTOBER 17, 1933. Class 49.

309,132. WINES. BOHEMIAN DISTRIBUTING CO. LTD., Los Angeles, Calif.
Filed September 1, 1933. Serial No. 341,238. PUBLISHED OCTOBER 24, 1933. Class 47.

309,133. WHISKY. MACKENZIE BROTHERS, DALMORE, LIMITED, Alness, Scotland.
Filed August 29, 1933. Serial No. 341,132. PUBLISHED OCTOBER 17, 1933. Class 49.

309,134. WHISKY. MACKENZIE BROTHERS, DALMORE, LIMITED, Alness, Scotland.
Filed August 29, 1933. Serial No. 341,133. PUBLISHED OCTOBER 17, 1933. Class 49.

309,135. CLOSET COMBINATIONS. STANDARD SANITARY MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed August 29, 1933. Serial No. 341,137. PUBLISHED OCTOBER 24, 1933. Class 13.

309,136. CLOSET BOWLS. STANDARD SANITARY MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed August 29, 1933. Serial No. 341,138. PUBLISHED OCTOBER 24, 1933. Class 13.

309,137. CHILDREN'S GAME CONSISTING IN A PLURALITY OF CARDS ADAPTED TO BE INTERLOCKED WITH ONE ANOTHER IN FORMING BLOCKS. COAST CARTON COMPANY, Seattle, Wash.
Filed August 24, 1933. Serial No. 341,003. PUBLISHED OCTOBER 24, 1933. Class 22.

309,138. ALE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. ADAM SCHEIDT BREWING COMPANY, Norristown, Pa.
Filed August 24, 1933. Serial No. 341,004. PUBLISHED OCTOBER 24, 1933. Class 48.

309,139. ELECTRIC LAUNDRY-WASHING MACHINES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed August 25, 1933. Serial No. 341,030. PUBLISHED OCTOBER 24, 1933. Class 24.

309,140. CHILDREN'S COASTER WAGONS. RADIO STEEL & MFG. CO., Chicago, Ill.
Filed August 26, 1933. Serial No. 341,046. PUBLISHED OCTOBER 24, 1933. Class 22.

309,141. WINES. THE GUSTAVE NIEBAUM COMPANY, San Francisco, Calif.
Filed August 28, 1933. Serial No. 341,095. PUBLISHED OCTOBER 24, 1933. Class 47.

309,142. WINES. SHERWAN-JONES, INC., San Francisco, Calif.
Filed August 28, 1933. Serial No. 341,099. PUBLISHED OCTOBER 24, 1933. Class 47.

309,143. WINES. FREDONIA PRODUCTS CO. INC., Fredonia, N. Y.
Filed August 29, 1933. Serial No. 341,122. PUBLISHED OCTOBER 24, 1933. Class 47.

309,144. PYROPHORIC GAS LIGHTERS. GEO. J. KELLY INC., Lynn, Mass.
Filed August 29, 1933. Serial No. 341,127. PUBLISHED OCTOBER 24, 1933. Class 34.

309,145. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. BRAUEREI JOH. HUMBSER A.-G., Furth, Germany.
Filed August 3, 1933. Serial No. 340,339. PUBLISHED OCTOBER 24, 1933. Class 48.

309,146. WHISKY. CRAIGHALL BONDING COMPANY, Glasgow, Scotland.
Filed August 3, 1933. Serial No. 340,342. PUBLISHED OCTOBER 24, 1933. Class 49.

309,147. BRANDY. ADET, SEWARD (STE. ANONYME), doing business as The Associated Beehive Brand Shippers of Bordeaux, Cognac, France.
Filed August 4, 1933. Serial No. 340,374. PUBLISHED OCTOBER 24, 1933. Class 49.

309,148. COAL. CARTER COAL COMPANY, Washington, D. C.
Filed August 4, 1933. Serial No. 340,376. PUBLISHED OCTOBER 17, 1933. Class 1.

309,149. WHISKEY. THE FRANKFORT DISTILLERY, INC., Louisville, Ky., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky., a corporation of West Virginia.
Filed August 4, 1933. Serial No. 340,391. PUBLISHED OCTOBER 17, 1933. Class 49.

309,150. NEWSPAPER SECTION. CENTRAL PRESS ASSOCIATION, INC., New York, N. Y.
Filed June 23, 1933. Serial No. 339,147. PUBLISHED OCTOBER 17, 1933. Class 38.

309,151. TYPEWRITER RIBBONS AND CARBON PAPER. CODO MANUFACTURING CORPORATION, Coraopolis, Pa.
Filed June 26, 1933. Serial No. 339,221. PUBLISHED OCTOBER 24, 1933. Class 11.

309,152. LIQUID PROTECTIVE COATING OR FINISH, IN THE NATURE OF VARNISH, FOR WOOD, METAL, LEATHER, FABRICOID, LINOLEUM, AND OTHER SURFACES. THE DEWOLFE COMPANY, Waltham, Mass.
Filed June 27, 1933. Serial No. 339,261. PUBLISHED OCTOBER 17, 1933. Class 16.

309,153. BLANK BOOKS AND FOLDERS HAVING POCKETS FOR LOOSE PAPERS SUCH AS LETTERS, BILLS, RECORDS, ORDERS, MEMORANDA LAYOUTS, SAMPLES, ESTIMATES, CLIPPINGS, PHOTOGRAPHS AND NEGATIVES, STAMPS, LISTS, COUPONS, TICKETS, PROGRAMS, ETC. H. WOLFF ESTATE, New York, N. Y.
Filed July 12, 1933. Serial No. 339,696. PUBLISHED OCTOBER 17, 1933. Class 37.

309,154. CARDBOARD BOXES AND CLOTH AND CELLULOSE BAGS. SEACREST LAUNDRY INC., Elmhurst, Long Island, N. Y.
Filed January 25, 1933. Serial No. 334,327. PUBLISHED OCTOBER 24, 1933. Class 2.

309,155. PIE FILLING, CANDY, FISH FOOD, MALT SYRUP, AND MUSTARD. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 31, 1933. Serial No. 336,302. PUBLISHED AUGUST 1, 1933. Class 46.

309,156. FOOD PRODUCT—NAMELY, ICE CREAM. HUYLER'S, New York, N. Y.
Filed April 26, 1933. Serial No. 337,191. PUBLISHED OCTOBER 17, 1933. Class 46.

309,157. FINE PORK SAUSAGE. STAHL-MEYER, INC., New York, N. Y.
Filed May 16, 1933. Serial No. 337,893. PUBLISHED AUGUST 22, 1933. Class 46.

309,158. HAIR DRYERS. PARAMOUNT MULTI-DRYER CO., Los Angeles, Calif.
Filed May 17, 1933. Serial No. 337,928. PUBLISHED OCTOBER 24, 1933. Class 44.

309,159. WOMEN'S WEARING APPAREL—NAMELY, COSTUME SLIPS, NIGHT GOWNS, DANCE-SETS, PAJAMAS, PANTIES, STEP-INS, AND PETTICOATS. MUTUAL GARMENT COMPANY, St. Louis, Mo.
Filed May 20, 1933. Serial No. 338,057. PUBLISHED OCTOBER 17, 1933. Class 39.

309,160. WINES. GIULIANA RICASOLI FIRIDOLFI, doing business as Casa Vinicola Barone Ricasoli, Florence, Italy.
Filed May 23, 1933. Serial No. 338,142. PUBLISHED OCTOBER 24, 1933. Class 47.

309,161. WINES. GIULIANA RICASOLI FIRIDOLFI, doing business as Casa Vinicola Barone Ricasoli, Florence, Italy.
Filed May 23, 1933. Serial No. 338,143. PUBLISHED OCTOBER 24, 1933. Class 47.

309,162. WHISKY. LANG BROTHERS, LIMITED, Glasgow, Scotland.
Filed May 23, 1933. Serial No. 338,155. PUBLISHED OCTOBER 17, 1933. Class 49.

309,163. FRESH VEGETABLES AND FRESH CANTALOUPES. G. A. DAHL & Co., Brawley, Calif.
Filed May 31, 1933. Serial No. 338,363. PUBLISHED OCTOBER 17, 1933. Class 46.

309,164. RED AND WHITE CHIANTI WINES. NICCOLÒ ANTINORI, doing business as Marchesi Lodovico & Piero Antinori, Florence, Italy.
Filed June 2, 1933. Serial No. 338,445. PUBLISHED OCTOBER 24, 1933. Class 47.

309,165. PLUMBING FIXTURES—NAMELY, TUBS, SINKS, LAVATORIES, AND CLOSET COMBINATIONS. STANDARD SANITARY MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed August 29, 1933. Serial No. 341,139. PUBLISHED OCTOBER 24, 1933. Class 13.

309,166. CLOSET COMBINATIONS. STANDARD SANITARY MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed August 29, 1933. Serial No. 341,141. PUBLISHED OCTOBER 24, 1933. Class 13.

309,167. CHAMPAGNE AND WINES OF ALL KINDS. FRENCH CHAMPAGNE DISTRIBUTORS, INC., New York, N. Y.
Filed August 30, 1933. Serial No. 341,162. PUBLISHED OCTOBER 24, 1933. Class 47.

309,168. DOLL'S TEA SET. THE RICHARDSON COMPANY, Lockland, Ohio.
Filed August 30, 1933. Serial No. 341,170. PUBLISHED OCTOBER 24, 1933. Class 22.

309,169. PHOTOGRAPHIC CAMERAS AND PHOTOGRAPHIC FILMS. BEHREND & ROTHSCHILD, New York, N. Y.
Filed August 30, 1933. Serial No. 341,184. PUBLISHED OCTOBER 17, 1933. Class 28.

309,170. FOLDING PAPER BOXES, CARTONS, AND FABRICATED BOXES COMPOSED OF FIBERBOARD, CELLBOARD, BOXBOARD, CARDBOARD, AND SIMILAR ORIGINAL BOXES, AS DISTINGUISHED FROM WRAPPING PAPER PACKAGES. CONSOLIDATED PAPER BOX COMPANY, San Francisco, Calif.
Filed May 2, 1931. Serial No. 314,099. PUBLISHED OCTOBER 24, 1933. Class 2.

309,171. BREAD. THE RUBEL BAKING CO., Cincinnati, Ohio.
Filed November 18, 1931. Serial No. 321,259. PUBLISHED OCTOBER 17, 1933. Class 46.

309,172. TWINE OF COTTON OR JUTE. MENTE & CO., INC., New Orleans, La.
Filed January 6, 1932. Serial No. 322,780. PUBLISHED SEPTEMBER 27, 1932. Class 7.

309,173. AIRCRAFT ENGINES, PARTS AND ATTACHMENTS THEREFOR. THE PRATT & WHITNEY AIRCRAFT COMPANY, East Hartford, Conn.
Filed May 19, 1932. Serial No. 327,259. PUBLISHED OCTOBER 17, 1933. Class 23.

309,174. WEIGHING SCALES. TOLEDO SCALE MANUFACTURING COMPANY, Toledo, Ohio.
Filed August 18, 1932. Serial No. 329,659. PUBLISHED OCTOBER 17, 1933. Class 26.

309,175. POP CORN CONFECTIONS. JOHN P. GOMMELS, doing business as The GoMel Korn Shop, Quincy, Ill.
Filed October 24, 1932. Serial No. 331,497. PUBLISHED DECEMBER 13, 1932. Class 46.

309,176. SMOKING TOBACCO. MURRAY, SONS & CO., LIMITED, Belfast, Ireland.
Filed July 14, 1933. Serial No. 339,757. PUBLISHED OCTOBER 24, 1933. Class 17.

309,177. AIR CONDITIONING UNIT FOR HEATING, COOLING, HUMIDIFYING, DEHUMIDIFYING, AND CLEANING AIR. FAIRBANKS, MORSE & COMPANY, Chicago, Ill
Filed July 15, 1933. Serial No. 339,782. PUBLISHED OCTOBER 24, 1933. Class 34.

309,178. CATTLE FEEDS, DAIRY FEEDS, POULTRY FEEDS, HORSE FEEDS, AND HOG FEEDS. CHAMPION MILLING & GRAIN COMPANY, Clinton, Iowa.
Filed July 22, 1933. Serial No. 340,000. PUBLISHED OCTOBER 17, 1933. Class 46.

309,179. RECEPTACLES MADE OF PULP—NAMELY, CARTONS. THE MENASHA PRODUCTS COMPANY, Menasha, Wis.
Filed July 26, 1933. Serial No. 340,126. PUBLISHED OCTOBER 24, 1933. Class 2.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

309,180. (CLASS 12. CONSTRUCTION MATERIALS.) FORMOSTONE COMPANY, Philadelphia, Pa. Filed Dec. 22, 1931. Serial No. 322,862.

Formostone

For a Form of Stone Repair Material of Cementitious Character—Namely, Liquid Roof Cement, Plastic Roof Cement, and Caulking Compound. Adapted for Repairing or Caulking Wall, Floor, and Ceiling Surfaces, the Repair Work Being Integral and Presenting a Satin Finish.
Claims use since Sept. 1, 1931.

309,181. (CLASS 12. CONSTRUCTION MATERIALS.) RAY PROOF CORPORATION, Brooklyn, N. Y. Filed Nov. 9, 1933. Serial No. 343,475.

RAY PROOF

For Structural Materials and Substructures for Buildings and Parts of Buildings, Particularly for Wall and Window Elements, and Especially for the Purpose of Minimizing the Passage of X-rays and Light Rays.
Claims use since Nov. 15, 1930.

309,182. (CLASS 37. PAPER AND STATIONERY.) IMPORT PAPER COMPANY, Chicago, Ill. Filed Nov. 2, 1933. Serial No. 343,173.

WABASH

For Bond Paper.
Claims use since May 5, 1922.

309,183. (CLASS 47. WINES.) HENKELL & Co., Wiesbaden-Biebrich, Germany. Filed Oct. 27, 1933. Serial No. 342,972.

HENKELL TROCKEN

For Wine and Sparkling Wine.
Claims use since Jan. 15, 1900.

309,184. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHAEL SWITALSKI, doing business as Dr. Michael's All-Herb Laboratories, Chicago, Ill. Filed Oct. 11, 1933. Serial No. 342,365.

DR. MICHAEL'S

For Liniments for External Use, Pile Ointment, Medicinal Herb Compound in the Nature of a Laxative Herb Tea, Medicinal Salves for External Application in Cases of Inflammation and Congestion, Medicinal Ointments Used as a Poultice, Herb Tonic in the Nature of a Diuretic and Laxative, and Herb Laxative.
Claims use since Jan. 1, 1928.

309,185. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GENERAL PRINTING INK CORPORATION, Dover, Del., and New York, N. Y. Filed Sept. 29, 1933. Serial No. 342,006.

RUTHERFORD

For Tin Coating Machines, Plate Graining Machines, Collapsible Tube Printing Machines, Collapsible Tube Coating Machines, Metal Dusting Machines, Plate Whirlers, Roller Embossing Machines, High Speed Offset Job Presses, Vacuum Printing Frames, and Rotary Metal Decorating Presses.

309,186. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD MILLING COMPANY, New York, N. Y. Filed Aug. 26, 1933. Serial No. 341,051.

Holstein

For Pure Wheat Gray Shorts.
Claims use since July 20, 1928.

309,187. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HAMPTON CRACKER COMPANY INC., Louisville, Ky. Filed June 24, 1933. Serial No. 339,187.

FRESH BAKED

THE HAMPTON CRACKER CO
INCORPORATED

For Soda Crackers or Biscuits and Cookies or Cooky Cakes.
Claims use since February, 1931.

309,188. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio. Filed May 12, 1933. Serial No. 337,756.

COLUMBIA

For Pneumatic Rubber Tires for Vehicles.
Claims use since Oct. 31, 1931.

309,189. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVID A. BEATTIE, doing business as D. A. Beattie Association, San Jose, Calif. Filed Jan. 14, 1933. Serial No. 333,913.

SURE-NO-SEEDS

For Fresh Citrus Fruits.
Claims use since Nov. 12, 1932.

309,190. CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TERRENE PRODUCTS COMPANY, West Palm Beach, Fla. Filed Jan. 4, 1933. Serial No. 333,640.

HONEFAST HONE

For Razor Hones.
Claims use since Oct. 1, 1932.

309,191. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) NEW YORK SOLDER CO. INC., New York, N. Y. Filed Nov. 15, 1932. Serial No. 332,158.

SURE-FLUX

For Solder Having a Flux Core.
Claims use since Nov. 1, 1932.

TRADE-MARK REGISTRATIONS RENEWED

37,307. HEADACHE MEDICINES IN POWDERED FORM. Registered November 12, 1901. EUREKA MEDICAL COMPANY, South Bend, Ind., a corporation of Indiana. Renewed November 12, 1931.

40,144. LOTIONS. Registered April 21, 1903. AUDITORIUM PHARMACY COMPANY. Renewed April 21, 1933, to Walgreen Co., Chicago, Ill., a corporation of Illinois, successor.

41,472. RUBBER BOOTS AND SHOES. Registered November 17, 1903. HOOD RUBBER COMPANY, Boston, Mass. Renewed November 17, 1933, to Hood Rubber Company, Inc., Wilmington, Del., a corporation of Delaware, assignee.

42,374. PERFUMERY. Registered April 12, 1904. COLGATE & Co., New York, N. Y. Renewed April 12, 1934, to Colgate-Palmolive-Peet Company, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

42,375. TOILET SOAP. Registered April 12, 1904. COLGATE & Co., New York, N. Y. Renewed April 12, 1934, to Colgate-Palmolive-Peet Company, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

90,302. SEWING-MACHINES AND CERTAIN NAMED PARTS THEREOF. Registered February 18, 1913. KARL DIETRICH, Altenburg, Germany. Renewed February 18, 1933.

93,802. CANNED SARDINES AND TUNNY-FISH. Registered October 21, 1913. M. AMIEUX & CIE, Nantes, France. Renewed October 21, 1933, to Maison Amieux-Freres, Societe Anonyme, Nantes-Chantenay, France, a corporation of France, successor.

94,205. CANDY. Registered November 11, 1913. SCHANDEIN & LIND Co., Philadelphia, Pa. Renewed November 11, 1933, to Schandein & Lind Co., Norristown, Pa., a corporation of Pennsylvania.

94,249. BEER AND PORTER. Registered November 18, 1913. MINNEAPOLIS BREWING COMPANY. Renewed November 18, 1933, to Minneapolis Brewing Company, Minneapolis, Minn., a corporation of Minnesota, assignee.

94,552. AN OINTMENT. Registered December 16, 1913. BONETTI FRERES, Paris, France, a Firm. Renewed December 16, 1933.

94,617. TAGS. Registered December 23, 1913. DENNISON MANUFACTURING COMPANY, Boston, Mass. Renewed December 23, 1933, to Dennison Manufacturing Co., Framingham, Mass., a corporation of Massachusetts.

94,664. BARREL-FILLERS. Registered December 23, 1913. PENNSYLVANIA FLEXIBLE METALLIC TUBING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed December 23, 1933.

94,883. CHAIN BELT USED FOR POWER TRANSMITTING AND CONVEYING PURPOSES. Registered January 13, 1914. CHAIN BELT COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed January 13, 1934.

94,976. CATHARTIC PILLS. Registered January 20, 1914. J. C. AYER COMPANY. Renewed January 20, 1934, to The Ayer Company, Lowell, Mass., a corporation of Massachusetts, by change of name.

95,214. COFFEE. Registered February 3, 1914. J. A. FOLGER & Co., San Francisco, Calif., a corporation of California. Renewed February 3, 1934.

95,307. MATCHES. Registered February 10, 1914. THE DIAMOND MATCH CO., Chicago, Ill. Renewed February 10, 1934, to The Diamond Match Company, New York, N. Y., a corporation of Maryland, assignee.

95,593. METAL-POLISH. Registered March 3, 1914. GEORGE E. BENNETT, doing business as E. W. Bennett & Co., San Francisco, Calif. Renewed March 3, 1934.

96,101. CERTAIN NAMED TEXTILE FABRICS IN THE PIECE. Registered April 7, 1914. E. C. CARTER AND SON, New York, N. Y., a firm. Renewed April 7, 1934.

96,187. DRESS-SHIELDS. Registered April 7, 1914. HENRY P. RINDSKOPF, New York, N. Y. Renewed April 7, 1934, to Rand Rubber Company, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

96,188. DRESS-SHIELDS. Registered April 7, 1914. HENRY P. RINDSKOPF, New York, N. Y. Renewed April 7, 1934, to Rand Rubber Company, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

96,259. CERTAIN NAMED MACHINES, STILLS, PUMPS, AND THE LIKE AND PARTS THEREOF. Registered April 14, 1914. DURIRON CASTINGS COMPANY, New York, N. Y. Renewed April 14, 1934, to The Duriron Company, Inc., Dayton, Ohio, a corporation of New York, by change of name.

96,294. PAMPHLETS. Registered April 14, 1914. THE HINDS & DAUCH PAPER COMPANY, Sandusky, Ohio, a corporation of Ohio. Renewed April 14, 1934.

96,313. DRY BATTERIES. Registered April 14, 1914. MANHATTAN ELECTRICAL SUPPLY CO., Jersey City, N. J., and New York, N. Y. Renewed April 14, 1934, to National Carbon Company, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

96,333. METAL-POLISHES. Registered April 14, 1914. PINGO COMPANY, Cambridge, Mass. Renewed April 14, 1934, to Josiah H. Crocker, doing business as Pingo Company, Boston, Mass.

96,341. DRESS-SHIELDS. Registered April 14, 1914. HENRY P. RINDSKOPF, New York, N. Y. Renewed April 14, 1934, to Rand Rubber Company, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

96,374. ELECTRICAL INSULATING SHEETS AND TUBES. Registered April 14, 1914. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa., a corporation of Pennsylvania. Renewed April 14, 1934.

96,390. A CARDIAC TONIC AND DIURETIC. Registered April 21, 1914. THE BAYER COMPANY, INC. Renewed April 21, 1934, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, assignee.

96,429. BEET-PULP. Registered April 21, 1914. THE LARROWE MILLING CO., Cohocton, N. Y. Renewed April 21, 1934, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

96,544. STEAM-ENGINES. Registered April 21, 1914. SKINNER ENGINE COMPANY, Erie, Pa., a corporation of Pennsylvania. Renewed April 21, 1934.

96,663. STEEL PENS. Registered April 28, 1914. JOSEPH GILLOTT & SONS, Birmingham, England, and New York, N. Y. Renewed April 28, 1934, to Joseph Gillott & Sons Limited, Birmingham, England, a corporation of Great Britain, assignee.

96,664. STEEL PENS. Registered April 28, 1914. JOSEPH GILLOTT & SONS, Birmingham, England, and New York, N. Y. Renewed April 28, 1934, to Joseph Gillott & Sons Limited, Birmingham, England, a corporation of Great Britain, assignee.

96,665. STEEL PENS. Registered April 28, 1914. JOSEPH GILLOTT & SONS, Birmingham, England, and New York, N. Y. Renewed April 28, 1934, to Joseph Gillott & Sons Limited, Birmingham, England, a corporation of Great Britain, assignee.

96,666. STEEL PENS. Registered April 28, 1914. JOSEPH GILLOTT & SONS, Birmingham, England, and New York, N. Y. Renewed April 28, 1934, to Joseph Gillott & Sons Limited, Birmingham, England, a corporation of Great Britain, assignee.

96,685. LEATHER. Registered April 28, 1914. KISTLER, LESH & COMPANY. Renewed April 28, 1934, to Kistler Leather Company, Boston, Mass., a corporation of Delaware, assignee.

96,768. SHOVELS, SPADES, AND SCOOPS. Registered April 28, 1914. THE WYOMING SHOVEL WORKS, Wyoming, Pa. Renewed April 28, 1934, to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a corporation of Delaware, assignee.

96,957. CITRUS FRUITS. Registered May 12, 1914. FORT OGDEN CITRUS GROWERS ASSOCIATION, Fort Ogden, Fla., a corporation of Florida. Renewed May 12, 1934.

96,981. ROUGE. Registered May 12, 1914. MAURICE MONIN, Paris, France. Renewed May 12, 1934, to Maison Dorin, Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

96,982. ROUGE. Registered May 12, 1914. MAURICE MONIN, Paris, France. Renewed May 12, 1934, to Maison Dorin, Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

LABELS

REGISTERED JANUARY 2, 1934

43,070.—*Title:* SEEL-PAK. For Combination Metal and Cardboard Container for Automotive Replacement Products. AMERICAN MOTOR PRODUCTS CORP., New York, N. Y. Published October 30, 1933.

43,071.—*Title:* "PUFFS" SLENDERLINE. For Cigarettes. JACK BAUER, New York, N. Y. Published November 9, 1933.

43,072.—*Title:* BESLIN IODINE CHLORIDE. For Nonpoisonous Solution of Iodine Chloride. BESLIN INC., New York, N. Y. Published September 18, 1933.

43,073.—*Title:* SPARKS BONDED MILK PRODUCTS. For Milk Products. BONDED MILK PRODUCTS, INC., Buffalo, N. Y. Published October 26, 1933.

43,074.—*Title:* ORTHO BRAND—GARDEN VOLCK SPRAY. For a Fungicide and Insecticide. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif. Published April 15, 1933.

43,075.—*Title:* ORTHO BRAND—GARDEN VOLCK SPRAY. For a Fungicide and Insecticide. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif. Published April 15, 1933.

43,076.—*Title:* OLD FAIRFIELD. For Apple Brandy. CONNECTICUT DISTILLERIES INCORPORATED, Westport, Conn. Published November 28, 1933.

43,077.—*Title:* OLD MILL. For Apple Brandy. CONNECTICUT DISTILLERIES INCORPORATED, Westport, Conn. Published November 28, 1933.

43,078.—*Title:* PIONEER LAGER BEER. For Lager Beer. DEPERE BREWING CORP., Depere, Wis. Published October 2, 1933.

43,079.—*Title:* EAGLE. For Gin. THE FREIBERG & WORKUM Co., Cincinnati, Ohio. Published October 30, 1933.

43,080.—*Title:* GIANT. For Ice Cream. GRIDLEY DAIRY COMPANY, INC., Milwaukee, Wis. Published June 8, 1933.

43,081.—*Title:* TRIKLES. For Coasters (Beer Mats). THE HARTER PUBLISHING COMPANY, Cleveland, Ohio. Published May 26, 1933.

43,082.—*Title:* HOSTESS. For Bathroom Tissue. BYRON T. HOFFMASTER, Menasha, Wis. Published November 17, 1933.

43,083.—*Title:* MENASHA. For Bathroom Tissue. BYRON T. HOFFMASTER, Menasha, Wis. Published November 17, 1933.

43,084.—*Title:* SILVER BOX. For Milk Chocolates. KING CANDY COMPANY, Fort Worth, Tex. Published November 15, 1933.

43,085.—*Title:* MAJITOL FEMININE HYGIENIC POWDER. For Feminine Hygienic Powder. MAJITOL LABORATORIES, Hollywood, Calif. Published November 10, 1933.

43,086.—*Title:* TASTY MATZOS. For Crackers Known as Matzos. THE B. MANISCHEWITZ CO., Jersey City, N. J., and Cincinnati, Ohio. Published October 20, 1933.

43,087.—*Title:* TASTY WHOLE WHEAT MATZO WAFERS. For Whole Wheat Matzo Wafers. THE B. MANISCHEWITZ CO., Jersey City, N. J., and Cincinnati, Ohio. Published October 30, 1933.

43,088.—*Title:* SPECIAL PACK STATE OF MAINE BLUEBERRIES. For Blueberries. PAUL S. MAYBAUM, New York, N. Y. Published October 10, 1933.

43,089.—*Title:* SPERRY. For Pancake and Waffle Flour. SPERRY FLOUR COMPANY, San Francisco, Calif. Published October 30, 1933.

PRINTS

REGISTERED JANUARY 2, 1934

14,473.—*Title:* OLD MR. BOSTON. For Gin. BENBURK, INC., Boston, Mass. Published November 28, 1933.

14,474.—*Title:* IT'S THE LITTLE CHILDREN THAT ARE MOST IN DANGER. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published January 10, 1933.

14,475.—*Title* FUN . . . AND GOOD FOR HER! For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published January 25, 1933.

14,476.—*Title:* WHY IS IT SO VITAL? For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published February 20, 1933.

14,477.—*Title:* SOMETHING MY WIFE DIDN'T KNOW ABOUT BEING A MOTHER TO OUR BOY! For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published March 4, 1933.

14,478.—*Title:* DANGERS PRESS CLOSE WHEN CHILDREN ARE 1 TO 6. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published March 10, 1933.

14,479.—*Title:* HOW MUCH "HELPING DAD" CAN A LITTLE BOY SAFELY DO? For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published March 25, 1933.

14,480.—*Title:* THAT PICTURE WILL ALWAYS ACCUSE ME. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published April 5, 1933.

14,481.—*Title:* . . . AND INFANT RECORDS PROVE IT! For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published April 10, 1933.

14,482.—*Title:* DOUBLY DANGEROUS . . THIS LITTLE SPAN OF YEARS FROM 1 TO 6. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published May 15, 1933.

14,483.—*Title:* TAKE WARNING FROM THE INFANT RECORDS! For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published June 10, 1933.

14,484.—*Title:* 1—2—3—4—5—6 WATCH THESE YEARS OF DOUBLE DANGER! For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published July 15, 1933.

14,485.—*Title:* AT THE FOOT OF MY BABY'S CRIB—I MADE A SOLUMN PROMISE! For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published August 5, 1933.

14,486.—*Title:* DOUBLE DANGER FROM 1 TO 6 YEARS. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published August 10, 1933.

14,487.—*Title:* 14 MILLIONS OF OUR LITTLE CHILDREN FACING GRAVE DANGERS NOW! For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published September 15, 1933.

14,488.—*Title:* SAFER AT BIRTH THAN HE IS NOW—IN CERTAIN VITAL WAYS! For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published October 10, 1933.

14,489.—*Title:* SCRAMBLED EGGS. For Puzzles. RAYMOND W. LAWRENCE, Chicago, Ill. Published September 15, 1933.

14,490.—*Title:* PARKELP. For a Mineral Food. PHILIP B. PARK, INC., Chicago, Ill. Published July 20, 1933.

14,491.—*Title:* TO BE SURE YOU GET BLUE RIBBON QUALITY ASK FOR IT. For Beer. PREMIER-PABST CORPORATION, Peoria Heights, Ill. Published November 12, 1933.

14,492.—*Title:* AFTER BLUE RIBBON IS ORDERED ONCE IT BECOMES A STANDING ORDER. For Beer. PREMIER-PABST CORPORATION, Peoria Heights, Ill. Published November 1, 1933.

14,493.—*Title:* CABIN IN THE COTTON. For Quilting Cotton. THE STEARNS & FOSTER CO., Cincinnati and Lockland, Ohio. Published June 3, 1933.

14,494.—*Title:* MARINER'S COMPASS. For Quilting Cotton. THE STEARNS & FOSTER CO., Cincinnati and Lockland, Ohio. Published April 12, 1933.

14,495.—*Title:* SWEET PEAS. For Quilting Cotton. THE STEARNS & FOSTER CO., Cincinnati and Lockland, Ohio. Published May 5, 1933.

14,496.—*Title:* SOUTHLAND SOL-AQUA WALLPAPER. For Wall Paper. WILSON-GEYER CO., Jackson, Tenn. Published November 1, 1933.

REISSUES

JANUARY 2, 1934

19,038

INDUCTION COMPASS

Nicolai Minorsky, Swarthmore, Pa., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Original No. 1,840,911, dated January 12, 1932, Serial No. 42,270, July 8, 1925. Application for reissue January 25, 1933. Serial No. 653,527

33 Claims. (Cl. 33—204)



5. In an induction compass, an armature rotatable about a horizontal axis and arranged to be influenced by the earth's magnetic field, and means responsive to a departure of the axis from a definite direction for returning it to that direction.

29. In an induction compass, a pair of armatures rotatable about relatively fixed axes having a predetermined relation to each other, and arranged to be influenced by the earth's magnetic field, and means responsive to and brought into operation by a differential E. M. F. produced by said armatures upon deviation of their axes from symmetrical positions with respect to the magnetic meridian for restoring the armatures to the symmetrical positions.

19,039

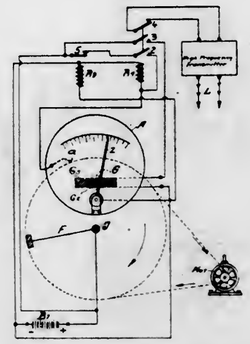
REMOTE CONTROL INDICATOR SYSTEM

Kurt Wilde, Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to Builders Iron Foundry, Providence, R. I., a corporation of Rhode Island

Original No. 1,822,683, dated September 8, 1931, Serial No. 227,933, October 22, 1927, and in Germany October 23, 1926. Application for reissue September 7, 1933. Serial No. 688,531

7 Claims. (Cl. 177—351)

1. A system for transmitting the indications of an instrument to a distance, comprising a transmitting measuring instrument, a transmission line and a receiving instrument, the transmitting instrument having a scale and a member positioning itself in correspondence with the magnitude to be measured, a contact arranged at a fixed point of said scale, a movable tester at said instrument, means for moving said tester periodically over said contact and said member, said tester cooperating with said contact and said member to perform two circuit-controlling operations, means for maintaining a current flow over said transmission line during the time interval between the said two controlling operations of the tester, said receiving instrument having a member adapted to be moved so as to indicate the position of the said member of the transmitting instrument, and means for starting said indicating member of the receiving instrument by the first, and for stopping it by the second contact control at the transmitting instrument.



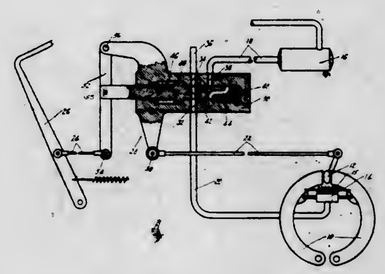
19,040

BRAKE MECHANISM

Roy S. Sanford, South Bend, Ind., assignor to Bendix Brake Company, a corporation of Illinois

Original No. 1,606,045, dated November 9, 1926, Serial No. 66,271, November 2, 1925. Application for reissue August 9, 1930. Serial No. 474,216

10 Claims. (Cl. 188—152)

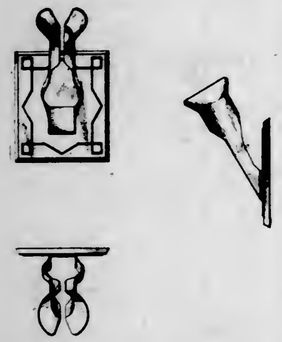


1. Brake-operating mechanism comprising, in combination, two separate brake-applying devices, power means for operating one device, a controlling member, and means for controlling the power of the power means and which is operated partly by the controlling member and partly by the other of the brake-applying devices.

DESIGNS

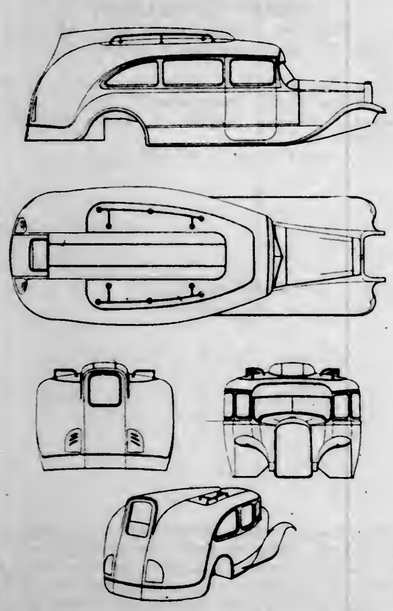
JANUARY 2, 1934

91,258
DESIGN FOR A CIGAR HOLDER
Henry Alberg, Millstadt, Ill.
Application October 14, 1933. Serial No. 49,486
Term of patent 7 years



The ornamental design for a cigar holder, as shown.

91,259
DESIGN FOR A TOURING CAR BODY
Charles S. Ash, Birmingham, Mich.
Application July 7, 1933. Serial No. 48,652
Term of patent 14 years



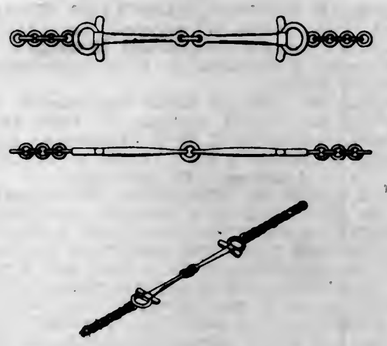
The ornamental design for a touring car body, as shown.

91,260
DESIGN FOR AN ASH TRAY
Frank O. Ayler, Cincinnati, Ohio
Application October 26, 1933. Serial No. 49,519
Term of patent 3½ years



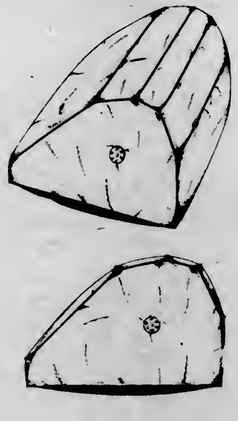
The ornamental design for an ash tray, as shown.

91,261
DESIGN FOR A CHAIN
Lawrence E. Baer, Attleboro, Mass., assignor to The Baer & Wilde Co., Inc., a corporation of Massachusetts
Application October 27, 1933. Serial No. 49,579
Term of patent 7 years



The ornamental design for a chain, substantially as shown and described.

91,262
DESIGN FOR A PILLOW OR SIMILAR ARTICLE
Edward J. Barcalo, Buffalo, N. Y., assignor to Six-Way Corporation, Buffalo, N. Y., a corporation of New York
Application April 5, 1933. Serial No. 47,697
Term of patent 14 years



The ornamental design for a pillow or similar article, substantially as shown.

91,263
DESIGN FOR A TURRET SUPPORT FOR LUBRICATING APPARATUS
Frank S. Barks, St. Louis, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application April 17, 1933. Serial No. 47,809
Term of patent 3½ years



The ornamental design for a turret support for lubricating apparatus, substantially as shown.

91,264
DESIGN FOR AN ELECTROLYSIS APPARATUS STAND
Joseph Brigida, New York, N. Y.
Application April 4, 1933. Serial No. 47,687
Term of patent 3½ years



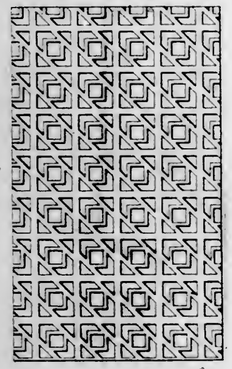
The ornamental design for an electrolysis apparatus stand, as shown.

91,265
DESIGN FOR A COFFEE PERCOLATOR
William T. Christman, Mount Lebanon, Pa., assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa., a corporation of Pennsylvania
Application November 14, 1933. Serial No. 49,716
Term of patent 14 years



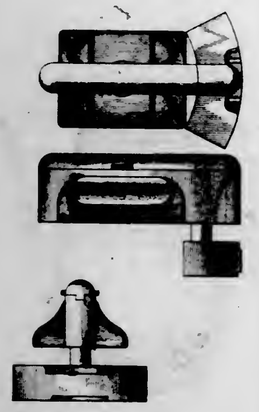
The ornamental design for a coffee percolator substantially as shown.

91,266
DESIGN FOR A GRILLE OR THE LIKE
George Wyland Fowler, Carbondale, Pa., assignor to Hendrick Manufacturing Company, a corporation of Pennsylvania
Application October 4, 1933. Serial No. 49,400
Term of patent 7 years



The ornamental design for a grille or the like, substantially as shown and described.

91,267
DESIGN FOR A WRINGER HEAD FOR WASHING MACHINES
Lurelle Van Arsdale Guild, Noroton, Conn., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application May 16, 1933. Serial No. 48,129
Term of patent 7 years



The ornamental design for a wringer head for washing machines, as shown.

91,268
DESIGN FOR A NEO-CLASSIC BATHROOM CHAIR
Lurelle Guild, Darien, Conn., assignor to C. F. Church Mfg. Co., Holyoke, Mass., a corporation of Massachusetts
Application August 26, 1933. Serial No. 49,138
Term of patent 7 years



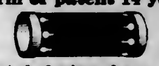
The ornamental design for a neo-classic bathroom chair substantially as shown.

91,269
DESIGN FOR A NEO-CLASSIC BATHROOM CHAIR
Lurelle Guild, Darien, Conn., assignor to C. F. Church Mfg. Co., Holyoke, Mass., a corporation of Massachusetts
Application August 26, 1933. Serial No. 49,137
Term of patent 7 years



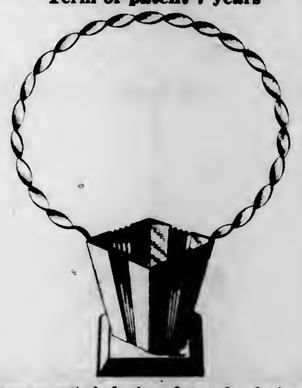
The ornamental design for a neo-classic bathroom chair substantially as shown.

91,270
DESIGN FOR A LIP STICK HOLDER
Herbert H. Harris, New York, N. Y.
Application July 21, 1933. Serial No. 48,786
Term of patent 14 years



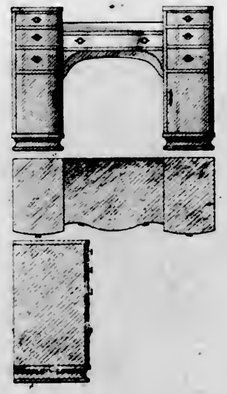
The ornamental design for a lip stick holder, substantially as shown and described.

91,271
DESIGN FOR A BASKET
Roderic M. Koch, Evansville, Ind.
Application November 6, 1933. Serial No. 49,654
Term of patent 7 years



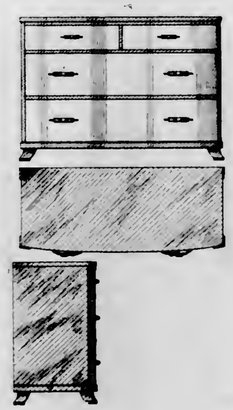
The ornamental design for a basket as shown.

91,272
DESIGN FOR A TOILET TABLE OR SIMILAR ARTICLE
Henry H. Koster, Grand Rapids, Mich.
Application October 28, 1933. Serial No. 49,587
Term of patent 3½ years



The ornamental design for a toilet table or similar article, as shown and described.

91,273
DESIGN FOR A DRESSER OR SIMILAR ARTICLE
Henry H. Koster, Grand Rapids, Mich.
Application October 28, 1933. Serial No. 49,588
Term of patent 3½ years



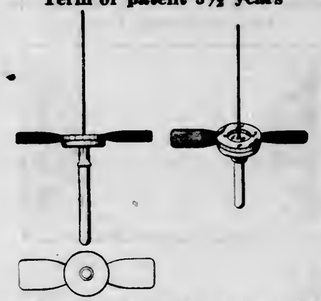
The ornamental design for a dresser or similar article, as shown and described.

91,274
DESIGN FOR AN ICE CREAM CONE
Sol S. Leaf, Chicago, Ill., assignor to Overland Candy Corporation, Chicago, Ill., a corporation of Illinois
Application November 10, 1933
Serial No. 49,696
Term of patent 14 years



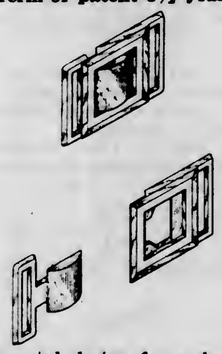
The ornamental design for an ice cream cone as shown.

91,275
DESIGN FOR A TOY
Carl Linden, Oakland, Calif.
Application April 20, 1933. Serial No. 47,844
Term of patent 3½ years



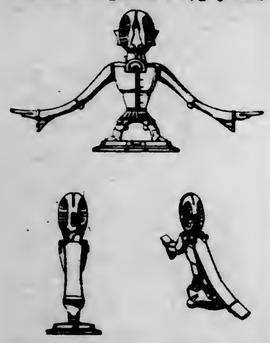
The ornamental design for a toy substantially as shown.

91,276
DESIGN FOR A DRESS BUCKLE
Harris J. Lipman, New York, N. Y.
Application October 31, 1933. Serial No. 49,616
Term of patent 3½ years



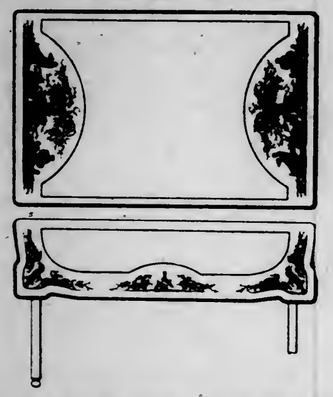
The ornamental design for a dress buckle, as shown and described.

91,277
DESIGN FOR A NUT CRACKER
Arthur Meng, Cleveland, Ohio
Application October 25, 1933. Serial No. 49,548
Term of patent 3½ years



The ornamental design for a nut cracker, as shown.

91,278
DESIGN FOR A TABLE
Ugo Mechi, Yonkers, N. Y., assignor to The Enamel Products Company, Cleveland, Ohio, a corporation of Ohio
Application August 7, 1933. Serial No. 48,948
Term of patent 14 years



The ornamental design for a table, as shown and described.

91,279
DESIGN FOR A SPECTACLE FRAME
George E. Nerney, Attleboro, Mass., assignor to Bay State Optical Company, Attleboro, Mass., a corporation of Maine
Application July 21, 1931. Serial No. 40,738
Term of patent 14 years



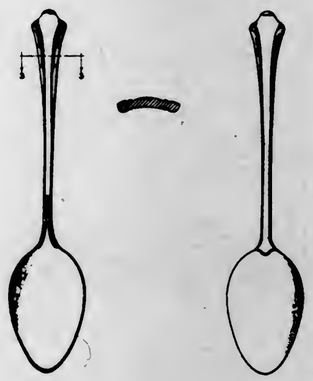
The ornamental design for a spectacle frame as shown.

91,280
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application November 15, 1933
Serial No. 49,728
Term of patent 7 years



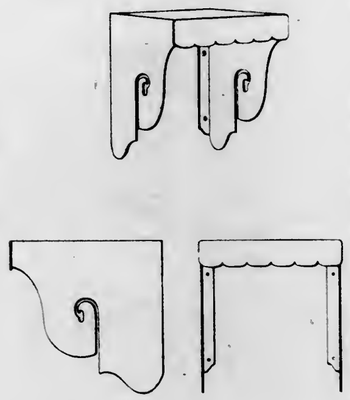
The ornamental design for lace, substantially as shown.

91,281
DESIGN FOR A SPOON OR SIMILAR ARTICLE
James R. Price, Providence, R. I.
Application November 10, 1933. Serial No. 49,688
Term of patent 14 years



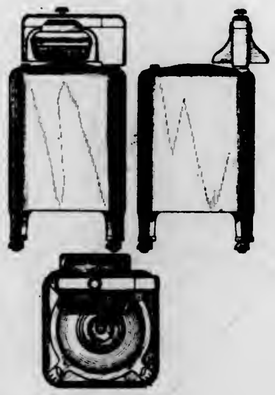
The ornamental design for a spoon or similar article, as shown.

91,282
DESIGN FOR A TOILET PAPER HOLDER
Merick Reynolds, Los Angeles, Calif.
Application March 24, 1933. Serial No. 47,579
Term of patent 3½ years



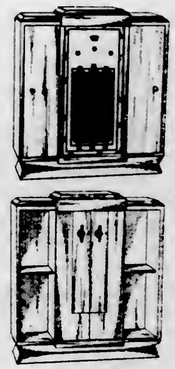
The ornamental design for a toilet paper holder, as shown.

91,283
DESIGN FOR A COMBINED WRINGER AND CASING FOR WASHING MACHINES
Clement D. Ryan, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application October 9, 1933. Serial No. 49,425
Term of patent 7 years



The ornamental design for a combined wringer and casing for washing machines, as shown.

91,284
DESIGN FOR A COMBINED BOOKCASE AND CABINET FOR RADIORECEIVER
Jan Streng, New York, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y., a corporation of New York
Application November 2, 1933. Serial No. 49,633
Term of patent 3½ years



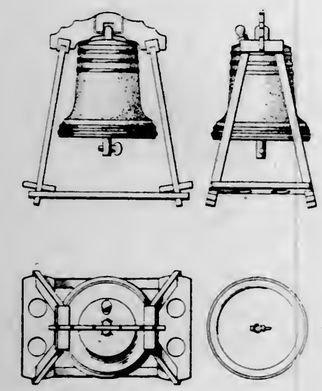
The ornamental design for a combined bookcase and cabinet for radioreceiver substantially as shown.

91,285
DESIGN FOR A COOKING VESSEL OR SIMILAR ARTICLE
Warren I. Tycer, Columbus, Ohio
Application October 13, 1933. Serial No. 49,478
Term of patent 14 years



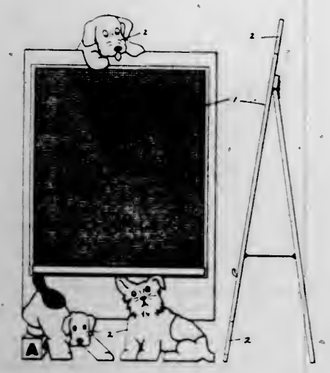
The ornamental design for a cooking vessel or similar article, as shown and described.

91,286
DESIGN FOR A LIQUID REFRESHMENT SERVER
George E. Wehrenberg, Chicago, Ill., assignor to Regalite, Inc., Chicago, Ill., a corporation of Illinois
Application December 19, 1932. Serial No. 46,523
Term of patent 7 years



The ornamental design for a liquid refreshment server as shown.

91,287
DESIGN FOR A BLACKBOARD
Frank Weiler and William A. Ferguson, San Francisco, Calif.
Application October 21, 1933. Serial No. 49,533
Term of patent 7 years



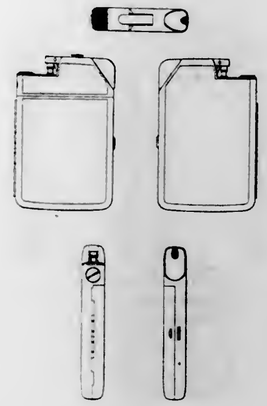
The ornamental design for a blackboard substantially as shown and described.

91,288
DESIGN FOR A HANDLE
Levi E. Wheeler, Worcester, Mass., assignor to The Washburn Company, Worcester, Mass., a corporation of Massachusetts
Application October 31, 1932. Serial No. 45,661
Term of patent 14 years



The ornamental design for a handle, as shown and described.

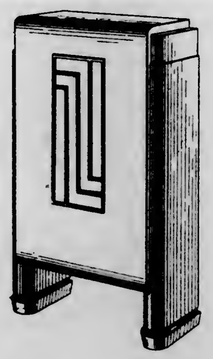
91,289
DESIGN FOR A COMBINED CIGARETTE CONTAINER AND PYROPHORIC LIGHTER
Frederick A. Whittaker, Attleboro, Mass., assignor to Marathon Company, Attleboro, Mass., a corporation of Massachusetts
Application July 24, 1933. Serial No. 48,807
Term of patent 14 years



The ornamental design for a combined cigarette container and pyrophoric lighter as shown.

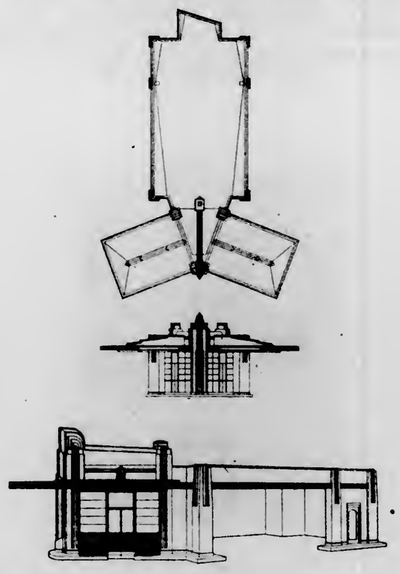
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91,290
DESIGN FOR A RADIOCABINET OR THE LIKE
Everett Worthington, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York
Application November 10, 1933
Serial No. 49,697
Term of patent 3½ years



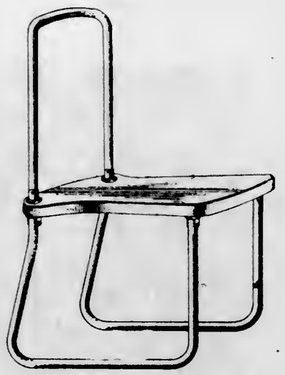
The ornamental design for a radiocabinet or the like, as shown.

91,291
DESIGN FOR A SERVICE STATION
Herbert O. Alden, Oakland, Calif., assignor to Shell Oil Company, San Francisco, Calif., a corporation of California
Application October 30, 1933. Serial No. 49,605
Term of patent 14 years



The ornamental design for a service station as shown and described.

91,292
DESIGN FOR A FOLDING CHAIR
Walter O. Brown, Detroit, Mich.
Application December 8, 1932. Serial No. 46,327
Term of patent 14 years



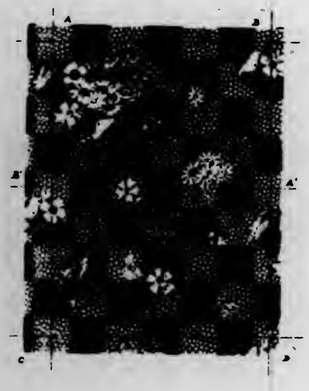
The ornamental design for a folding chair substantially as shown and described.

91,293
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Lizzie Derriey, Paris, France, assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,960
Term of patent 3½ years



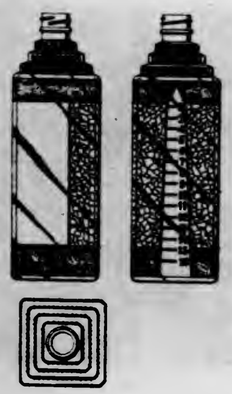
The ornamental design for a textile fabric or similar article as shown and described.

91,294
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Lizzie Derriey, Paris, France, assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,961
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown, and described.

91,295
DESIGN FOR A BOTTLE
Arthur H. Dolge, Westport, Conn.
Application August 23, 1932. Serial No. 44,674
Term of patent 14 years



The ornamental design for a bottle, as shown and described.

91,296
DESIGN FOR A FABRIC
Lawrence W. Griffis, North Tonawanda, N. Y., assignor to Van Raalte Company, New York, N. Y., a corporation of New York
Application November 9, 1933. Serial No. 49,686
Term of patent 3½ years



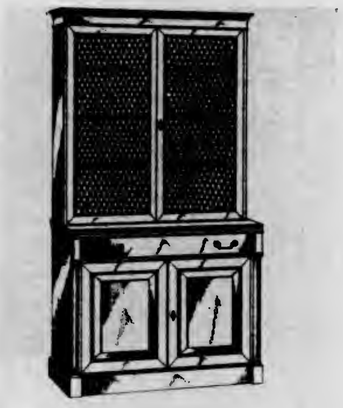
The ornamental design for a fabric as shown.

91,297
DESIGN FOR A COMBINED CLOCK CASE AND LAMP OR SIMILAR ARTICLE
Abraham Levy, Brooklyn, N. Y., assignor to United Metal Goods Manufacturing Co. Inc., Brooklyn, N. Y., a corporation of New York
Application November 13, 1933. Serial No. 49,706
Term of patent 3½ years



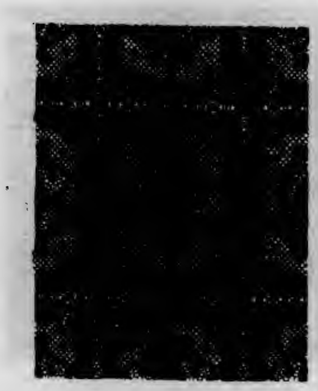
The ornamental design for a combined clock case and lamp or similar article, as shown and described.

91,298
DESIGN FOR A SECRETARY
Frances M. McClure, New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md., a corporation of Maryland
Application January 24, 1933. Serial No. 46,949
Term of patent 3½ years



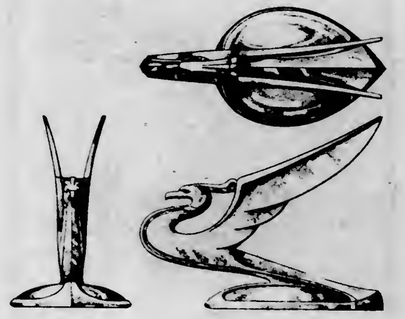
The ornamental design for a secretary, as shown.

91,299
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application December 1, 1933. Serial No. 49,900
Term of patent 7 years



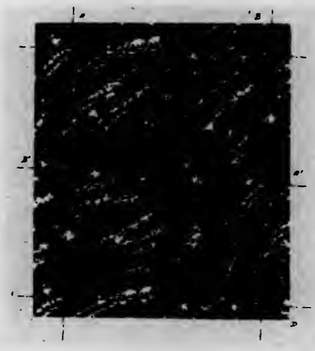
The ornamental design for lace, substantially as shown.

91,300
DESIGN FOR AN AUTOMOBILE RADIATOR ORNAMENT OR SIMILAR ARTICLE
William Schnell and Eric S. Carlson, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application November 16, 1933. Serial No. 49,764
Term of patent 7 years



The ornamental design for an automobile radiator ornament or similar article substantially as shown.

91,301
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,946
Term of patent 3½ years



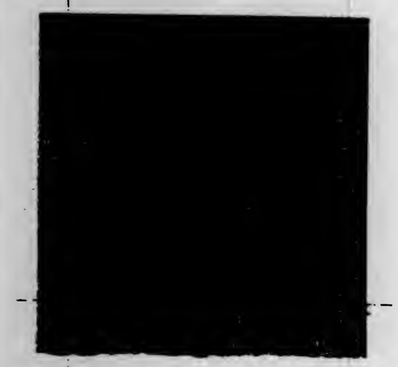
The ornamental design for a textile fabric or similar article as shown and described.

91,302
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,951
Term of patent 3½ years



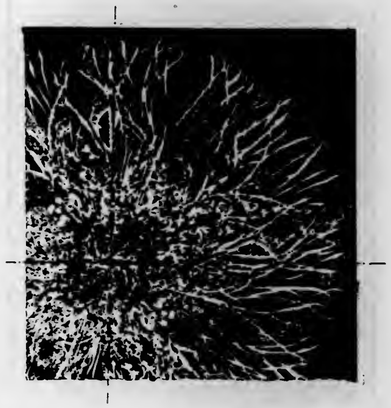
The ornamental design for a textile fabric or similar article as shown.

91,303
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,953
Term of patent 3½ years



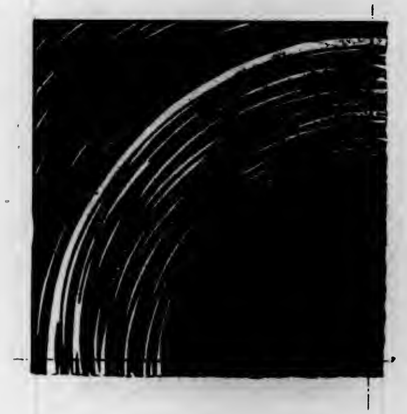
The ornamental design for a textile fabric or similar article as shown and described.

91,304
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,954
Term of patent 3½ years



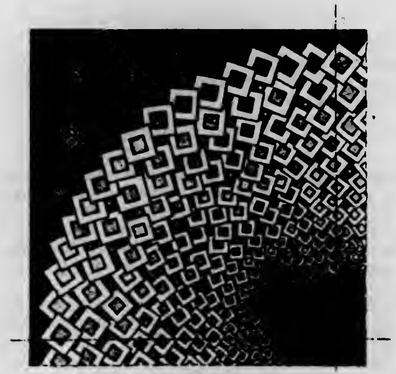
The ornamental design for a textile fabric or similar article as shown and described.

91,305
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,955
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,306
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,956
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,307
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,957
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,308
DESIGN FOR LACE
John H. Worrall, New York, N. Y., assignor to Liberty Lace and Netting Works, New York, N. Y., a corporation of New York
Application December 1, 1933. Serial No. 49,923
Term of patent 3½ years



The ornamental design for lace, substantially as shown.

PATENTS

GRANTED JANUARY 2, 1934

1,941,449
SEPARATOR

Stig G:son Sylvan, Bradford, Pa., assignor to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware

Application October 2, 1930. Serial No. 485,941

24 Claims. (Cl. 183—77)



12. In a separator of the class described having an axis of rotation, the combination of means providing inner and outer spaced surfaces which define a fluid passage, the sectional outline of which curves uniformly outward in an axial plane from the axis of rotation whereby fluid passing therethrough is deflected in an axial plane, a rotatable series of blades which extend longitudinally outward and across the passage formed by said surfaces whereby the fluid is deflected in the plane of rotation, said blades having their advancing faces concavely curved longitudinally so as to augment the rotational deflection, and means for conducting the precipitated particles from the stream, said means presenting along said outer surface a slot having direct communication with the path of precipitated particles.

22. A separator of the blower type having an axis of rotation, an axial inlet opening, a scroll outlet passage presenting an outwardly located annular inlet opening arranged to receive a more or less annular axial flow, means defining an annular deflection passage between said openings, said means including inner and outer wall portions extending from said scroll inlet convexly and concavely inward respectively, the outer concave wall portion being rotatable about said axis, a series of arc-shaped blades extending transversely between said wall portions longitudinally toward said scroll inlet, said blades providing relatively long narrow passages and being arranged to rotate with said concave wall portions so as to create and rotationally deflect a flow of fluid thereby precipitating contained particles, the advancing faces of said blades being concavely curved longitudinally and inclined transversely from the outer concave side of the deflection passage forwardly in the direction of rotation, and means presenting along the outer wall of said passage a small opening through which the particles may be centrifugally ejected from the passage.

1,941,450
AIR FILTER

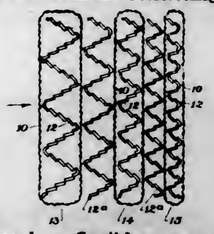
Stig G:son Sylvan, Louisville, Ky., assignor to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware

Application February 21, 1931

Serial No. 517,468

2 Claims. (Cl. 183—71)

1. A filter medium for air filters having a series of filter elements separated from each other by an interposed series of open-mesh plates, each filter element consisting of an open-



mesh plate and a flexible, coarsely-interlaced open-mesh fabric extending around and supported by said plate.

1,941,451
TREATMENT OF FIBROUS MATERIALS

Ivan Tudor and Owen Tudor-Hart, Bagshot, England

No Drawing. Application October 24, 1929, Serial No. 402,306, and in Great Britain November 2, 1928

7 Claims. (Cl. 19—66)

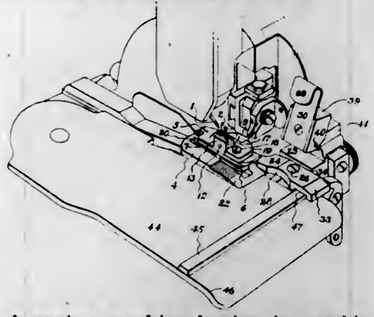
1. A process of treating coir fiber after treatment with alkali, consisting in drying said material and then rubbing it in the mass so that the various fibers are frictionally engaged inter se to give a smooth or glossy surface to the external surface of the fibers in the absence of a coating composition.

1,941,452
SEWING MACHINE

John M. Washburn, West Hartford, Conn., assignor to The Merrow Machine Company, Hartford, Conn., a corporation of Connecticut

Application August 18, 1930. Serial No. 476,119

20 Claims. (Cl. 112—177)



1. A sewing machine having in combination with stitching elements and trimming devices, one or more feed dogs to advance the work, a needle plate provided with feed and needle slots and having an incline transversely intersected by the path of one or more feed dogs, said incline being in advance of the stitching elements, a presserfoot having a bearing surface opposed to the needle plate and feed and extended over said incline, said bearing surface being laterally bounded by sides which are diagonal to the path of the feed, a yielding edge guide for directing a

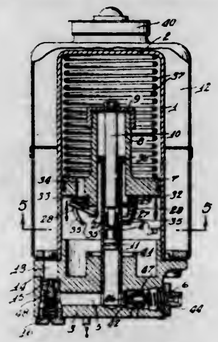
folded edge of material and having its forward end relieved to facilitate the passage of the free end of the material overlying said folded edge, a hem fold gauge to hold a fold of material adjacent the edge guide in advance of the incline on the needle plate and to cooperate with the edge guide and trimming devices to define a definite depth of hem, a work plate having its work receiving surface slightly below the level surface of the needle plate, and a ridge in advance of the gauge, for flattening the hem fold.

1,941,453
AUTOMATIC PUMP

Ralph S. Whittington, Oak Park, Ill., assignor, by mesne assignments, to The Farval Corporation, Cleveland, Ohio, a corporation of Ohio

Application June 17, 1931. Serial No. 545,045

14 Claims. (Cl. 184—29)



1. An automatic lubricating device comprising an operating cylinder and a charging cylinder, pistons working respectively in said cylinders and connected together, a lubricant reservoir connected to said charging cylinder, outlet means from said charging cylinder, a check valve between said reservoir and charging cylinder adapted to operate on relief of pressure in said charging cylinder, means for the admission of fluid pressure to said operating cylinder at that side of the piston therein at which such pressure fluid effects an intake stroke of the other piston, pressure relief means from the opposite side of said piston, said piston having a port therethrough, a valve for said port carried by said piston, means for respectively opening and closing said valve near the ends of opposite strokes of said piston, and yielding means in said operating cylinder for reversing the direction of said piston on the opening of said valve.

1,941,454
DOOR OPERATING MECHANISM

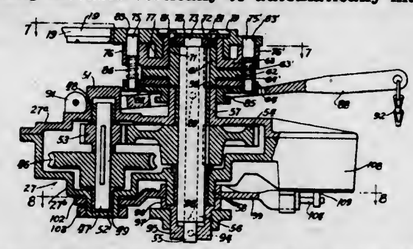
Harry G. Ainsworth, Aurora, Ill.

Application December 30, 1929

Serial No. 417,381

23 Claims. (Cl. 268—65)

1. The combination with a closure member and a fixed support relatively to which said closure member has movement, of mechanism for operating said closure member and adapted to be mounted thereon, said mechanism comprising a crank arm arranged to have operative connection with said fixed support, an electric motor mounted for vertical movement relative to said mechanism, and driving means connecting said electric motor with said crank arm including a flexible overload slippage connection, said motor being movable vertically to automatically main-



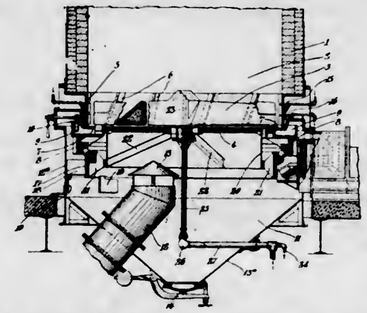
tain said flexible connection under normal driving tension.

1,941,455
GAS GENERATOR

Charles W. Andrews, Duluth, Minn., and William B. Chapman, Jackson Heights, N. Y.

Application April 21, 1928. Serial No. 271,710

7 Claims. (Cl. 48—78)



1. A water gas generator adapted to have a firebed containing fuel and ash zones, and having a grate adapted to support the firebed, sidewalls adapted to enclose the firebed, an up and outstroking agitating member located immediately over the grate, an annular skirt depending from said sidewalls at about the level of said agitating member to confine the ash pushed outwardly by the latter, an ash receiving member underlying said skirt, means affording passage for a blast of air through said ash receiving member and under said skirt into the firebed, and means for water cooling said skirt.

1,941,456
GRINDING GAUGE

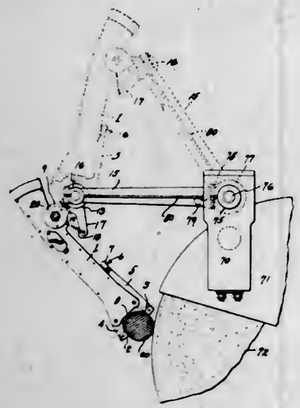
Philip S. Arnold, Flint, Mich., assignor of one-fifth to Charles E. Wisner, Detroit, Mich.

Application August 23, 1928. Serial No. 301,493

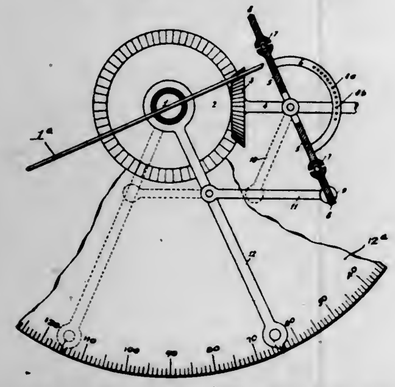
13 Claims. (Cl. 33—172)

6. In apparatus of the character described, a device adapted to indicate when a piece of work has been reduced to a predetermined diameter, said device including contact elements adjustably fixed as to distance apart and first engaging opposite sides of the work at points on a line parallel with and at one side of a diametrical line thereof, a supporting element for holding the device in operative or non-operative position, means adapted to yieldably urge the supporting element to position the device in said operative or non-operative position, and means acting when the device is in operative position to move the work contacting elements toward said diametrical line as the diameter of the work is

reduced, and an indicator giving a visible indication when the work contacting elements occupy a predetermined position relative to a diametrical line of the work.

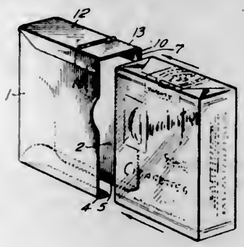


1,941,457
ERROR COMPENSATING DEVICE FOR RADIOGONIOMETERS
Ettore Bellini, Sarcelles, France, assignor to Compagnie Générale de Telegraphie sans Fil, a corporation of France
Application January 4, 1930, Serial No. 418,454, and in France January 23, 1929
6 Claims. (Cl. 250—11)



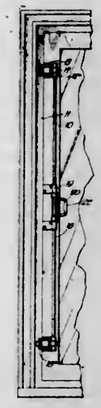
1. Means for automatically applying corrections to the indicator of a direction finder including a loop aerial, comprising a reading dial rigidly attached to the axis of the loop aerial, an index hand or pointer pivotally mounted for oscillation about the axis of the loop aerial in a plane parallel to the dial in view of indicating the divisions thereof, a secondary shaft, means interconnecting the said loop and said shaft to cause rotation of the said secondary shaft simultaneously with rotation of the dial and twice faster than the latter, and means comprising a mechanical coupling between the pointer and the said secondary shaft together with means for transferring the movement from the latter to the index hand, one turn of the secondary shaft corresponding to a complete oscillation of the pointer.

1,941,458
PACK HOLDER AND CUTTER
Samuel J. Bens, New York, N. Y.
Application June 3, 1933. Serial No. 674,145
19 Claims. (Cl. 206—41)



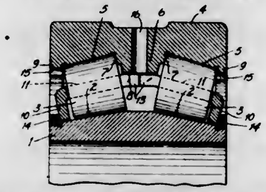
1. A pack holder and cutter comprising a casing having a hinged lid and an open side through which the pack may be introduced, and having two separate and opposed side blades near the casing top and adjacent the open side thereof, said blades projecting inwardly towards each other and adapted to slit the sides of the pack top inwardly, and means to sever the front of said pack between the slits made by the side blades and lift the severed top when the casing lid is swung at its hinge.

1,941,459
WINDOW FASTENER AND BOLT
Charles S. Bock, Chicago, Ill., assignor to Andrew Hoffman, Chicago, Ill.
Application April 21, 1933. Serial No. 667,301
2 Claims. (Cl. 292—142)



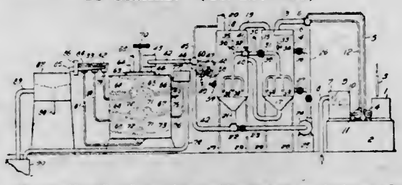
1. A window sash fastener comprising a slide bolt bevelled at one end and having a gear rack portion at its opposite end, a bolt housing characterized by a base provided with an arched portion, secured to the sash, a plurality of integral projections extending from the rear end of the base to form continuations thereof and terminating in rolled spaced bearings, a rod passing through the bearings, and a gear sector, cooperating with the rack portion of the bolt, fastened to the rod for positioning between the bearings.

1,941,460
DOUBLE ROW ROLLER BEARING
Ernest G. Boden, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application November 14, 1932
Serial No. 642,525
3 Claims. (Cl. 308—214)



1. A double row roller bearing comprising an integral bearing cup, an integral bearing cone, each of said bearing members having two conical raceway portions, two series of conical rollers interposed between said cup and cone, said cup having a central rib provided with thrust surfaces engaged respectively by the large ends of said rollers, said cup also having an annular flange at each outer end, cages for said rollers, each cage including an outer end ring closely encircling said cone and inwardly projecting fingers forming roller receiving pockets opened at the middle of the bearing, and means at each end of said cone for retaining said cages in position.

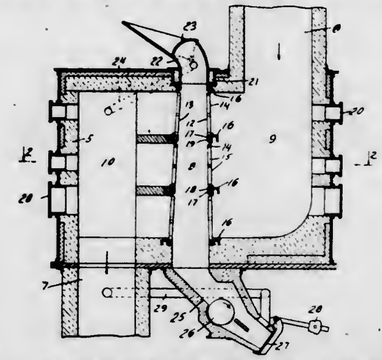
1,941,461
MANUFACTURE OF SUGAR
Arthur W. Bull, Leonia, N. J., and Elmer R. Ramsey, Larchmont, N. Y., assignors to The Dorr Company, Inc., New York, N. Y., a corporation of Delaware
Original application May 8, 1926, Serial No. 107,579, and in Great Britain May 9, 1925. Divided and this application May 4, 1932. Serial No. 609,341
18 Claims. (Cl. 127—50)



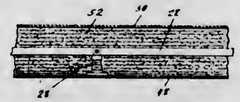
1. A method of carbonating sugar juice which comprises continuously mixing lime, juice and gas to carbonate said juice, indicating the degree of alkalinity of the carbonated juice from a flowing sample thereof while open to the atmosphere, and using said indication to control the proportion of ingredients being mixed.

1,941,462
METHOD OF PRODUCING COKED FUEL AGGLOMERATES
Earl H. Bunce, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
Application September 27, 1929
Serial No. 395,586
2 Claims. (Cl. 202—15)

1. The method of producing coked fuel agglomerates which comprises agglomerating a mixture of finely divided carbonaceous material and an agent that forms a bond when coked, progressively advancing the agglomerates while in free contact with one another by gravity through an upright coking chamber, and heating the agglomerates to their coking temperature in the course of their travel through said chamber by passing a hot gas through and in direct contact with the agglomerates in a direction approximately transverse to the direction of travel of the agglomerates through the chamber, said hot gas entering the agglomerates at a temperature of at least 800° C. and leaving the agglomerates at a temperature not lower than 550° C.



1,941,463
HIGH TENSION ELECTRIC DISTRIBUTING SYSTEM AND APPARATUS
George A. Burnham, Saugus, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a corporation of Massachusetts
Application February 6, 1928. Serial No. 252,185
8 Claims. (Cl. 173—266)

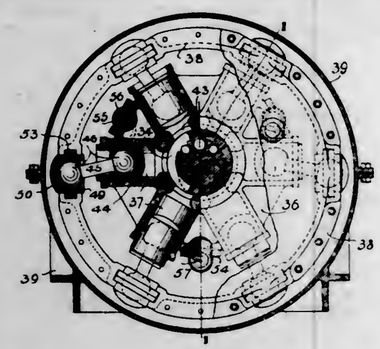


4. The combination of a high tension conductor, a combustible insulating liquid body surrounding and insulating said conductor, and cooling means comprising a mass of solid, discrete non-combustible insulating particles located within and in intimate contact with said insulating body which renders difficult the combustion thereof and which retains said body against flow.

1,941,464
DRIVING MECHANISM
Roger W. Clifford, Schenectady, N. Y.
Application August 2, 1930. Serial No. 472,629
16 Claims. (Cl. 192—60)

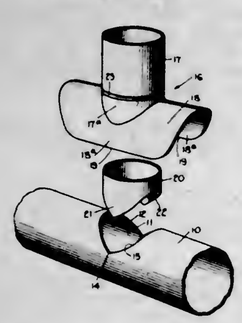
1. A hydraulic clutch comprising a rotor, a crank shaft centrally disposed with relation to said rotor, a plurality of cylinders revolvably mounted around said crank shaft, within said rotor, piston elements slidably disposed in said cylinders and pivotally connected to said rotor, a source of fluid, and means associated with said crank shaft including a passage-way in the crank shaft adapted to control the flow of said fluid into and from said cylinders, to entrap fluid within certain of said cylinders during relative inward movement of their respective piston elements while simultaneously permitting the flow of fluid into certain other of said cylinders during relative outward movement of the respective

piston elements of said other cylinders, whereby said crank rotor and said shaft may be coop-



eratively engaged to rotate together for the transmission of power therethrough.

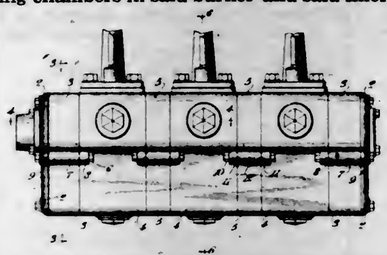
1,941,465
BUILT-UP PIPE FITTING
Edward S. Cornell, Jr., Larchmont, N. Y.
Application December 16, 1931
Serial No. 581,294
4 Claims. (Cl. 285—108)



1. As an article of manufacture, for use in locating a saddle member with respect to an opening formed laterally in a tube, said article of manufacture having a substantially cylindrical hollow element provided with an opening at one end, the edges of which extend substantially at right angles to the axis of the hollow element, said hollow element being open at its opposite end, the edges of which extend in divergent directions, and locking elements carried by the hollow element and projecting beyond the edges at said opposite end.

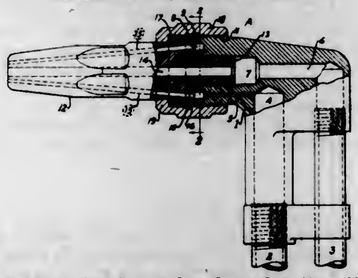
1,941,466
SECTIONAL MANIFOLD
Harry H. Dodge, Troy, N. Y., assignor, by mesne assignments, to Hoguet & Neary, New York, N. Y., a partnership consisting of Ramsay Hoguet, John F. Neary, and Daniel L. Morris
Application September 4, 1929, Serial No. 390,361
Renewed June 9, 1933
6 Claims. (Cl. 158—104)

1. In a manifold, a plurality of burner sections, air and combustible mixture conducting arms extending from each side of said burner sections, filler sections between said burner sections, registering chambers in said burner and said filler sec-



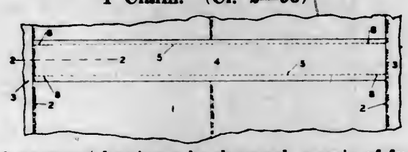
tions, and means for fastening said sections together.

1,941,467
TORCH
Arthur J. Fausek and Irwing F. Fausek, St. Louis, Mo.
Application February 20, 1929. Serial No. 341,311
9 Claims. (Cl. 158—27.4)



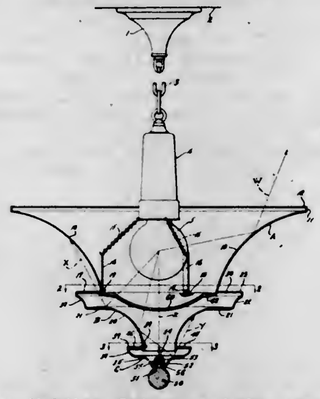
1. A torch having a head, and a tip attached to said head with a portion thereof in contact with a portion of said head, said portion of the tip adapted to contact with a portion of the head of the torch being connected to the body of the tip by a section of such reduced thickness as to render said tip portion flexible to permit same to adapt itself to irregularities in the cooperating portion of the head.

1,941,468
BELTED COAT
Ray Gilbert, Clayton, Mo., assignor to Curlee Clothing Company, St. Louis, Mo., a corporation of Delaware
Application February 4, 1933. Serial No. 655,152
1 Claim. (Cl. 2—93)



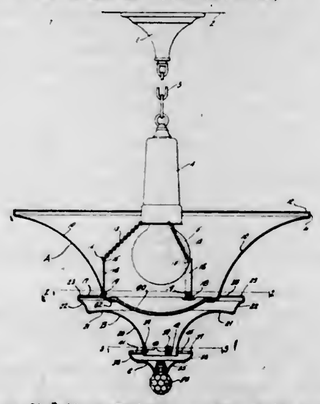
A garment having a back panel, a pair of front panels attached to the edges thereof by stitched seams, a belt extending between said seams and terminating in alignment therewith, said belt having turned-over edges secured by rows of stitching to form hems and turned-under ends forming attaching tabs, said tabs being secured to the back panel by rows of stitches extending parallel to the seams, said stitches extending through the tabs and the back panel only, and rows of stitches superimposed on the stitches forming the belt hem, said latter named stitches extending through the belt body, the tabs, and the back panel to maintain the ends of the belt in alignment with the seams.

1,941,469
LIGHTING FIXTURE
George E. Glatthar, University Heights, and Frederick Wening, South Euclid, Ohio
Application December 29, 1932
Serial No. 649,366
7 Claims. (Cl. 240—78)



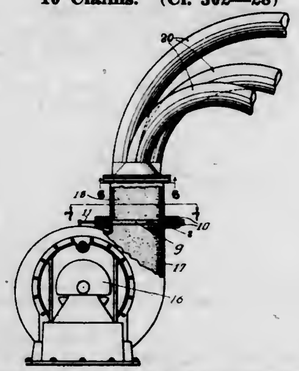
1. In a lighting fixture, a light source, an opaque main reflector for directing outwardly from said light source a major portion of the light rays emitted thereby, an opaque supplemental reflector having a reflecting area for directing onto the outer surface of said main reflector a minor portion of the light rays emitted by said light source, and colored means spaced from said reflecting area of said supplemental reflector and through which said minor portion of light rays pass before striking said reflecting area, whereby the light rays directed onto the outer surface of said main reflector by the reflecting area of said supplemental reflector are correspondingly colored.

1,941,470
LIGHTING FIXTURE
George E. Glatthar, University Heights, and Frederick Wening, South Euclid, Ohio
Original application December 29, 1932, Serial No. 649,366. Divided and this application January 26, 1933. Serial No. 653,678
3 Claims. (Cl. 240—78)



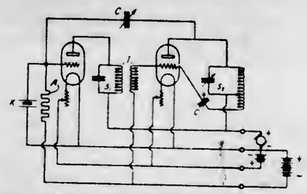
1. In a lighting fixture, a supporting element having an opening, an ornamental ball arranged adjacent said element and having a stud portion extending through the opening thereof, a bracket member supported by said element and arranged adjacent the opening thereof, and a second bracket member secured to the stud portion of said ball and adjustably secured to said first mentioned bracket member.

1,941,471
MIXING DEVICE FOR GASES CARRYING SOLID PARTICLES
Ralph M. Hardgrove, Westfield, N. J., assignor to Fuller Lehigh Company, Fullerton, Pa., a corporation of Delaware
Application July 12, 1928, Serial No. 292,148
Renewed April 8, 1933
10 Claims. (Cl. 302—28)



1. In a conduit having a bend therein through which finely divided material is carried by a gas, a transverse plate in proximity to the bend extending inwardly of said conduit from the side adjacent the greatest radius of the bend.

1,941,472
TRANSMITTER TUBE CIRCUIT
Kurt Heegner, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 2, 1927, Serial No. 172,144, and in Germany March 5, 1926. Renewed September 26, 1930
1 Claim. (Cl. 250—36)



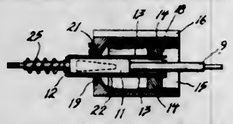
A system for generating oscillations comprising a vacuum tube having a grid a filament and a plate, a two electrode piezo-electric crystal, a connection from one electrode thereof to said grid and a connection from the other electrode thereof to said filament, a circuit for polarizing said grid comprising the series connection of a source of potential and a resistor connected across said grid and filament, a parallel tuned circuit comprising an inductance coil and a condenser connected between said plate and filament, a second electron discharge device coupled to said vacuum tube, said electron discharge device having an anode a cathode and a control grid, an inductance connected between said control grid and cathode, said inductance being inductively connected to the inductance of said par-

allel tuned circuit, a tuned circuit comprising an inductance coil and a variable condenser, said variable condenser shunting a portion of said inductance coil, said tuned circuit being connected between said anode and said cathode, a neutralizing circuit comprising a variable condenser connected to the control grid of said device and to the unshunted portion of said last mentioned coil, for preventing self oscillation of said device, and a variable feed back condenser connected across the anode of said device and the grid of said vacuum tube for establishing desired feed back and oscillation generation under the control of said piezo-electric crystal.

1,941,473
CENTRIFUGAL SPEED GOVERNOR

Albert S. Howell, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois

Application April 4, 1929. Serial No. 352,390
5 Claims. (Cl. 188—184)



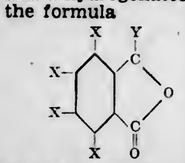
1. In a device of the character described the combination with a frame plate, of a revoluble shaft carried with said frame plate and disposed correspondingly with and spaced from one face thereof, a centrifugal speed governor associated with said shaft and including an adjusting member carried with said plate at said face thereof for movement longitudinally of said shaft and slidably engaging in a correspondingly disposed slot through said plate, and means at the opposite side of said plate and connected with the portion of said adjusting member engaged in said slot for controlling said movement of the adjusting member.

1,941,474
PLASTIC OR COATING COMPOSITION

Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application May 29, 1928, Serial No. 281,593. Renewed May 16, 1933
4 Claims. (Cl. 106—22)

1. A plasticized composition comprising a condensation product of a polyhydric alcohol and a polybasic acid and a hydrogenated phthalid substance having the formula



in which at least one X equals H_4 and the remaining X's are H or H_2 and Y is H_2, H-alkyl, dialkyl, H-aryl, diaryl or alkylidine.

1,941,475
BLEACHED CONDENSATION PRODUCT OF CARBOHYDRATES AND CRUDE HYDROCARBONS

Alphons O. Jaeger, Mount Lebanon, and Heinrich W. Witzel, Ingram, Pa., assignors to The Selden Company, Pittsburgh, Pa., a corporation of Pennsylvania

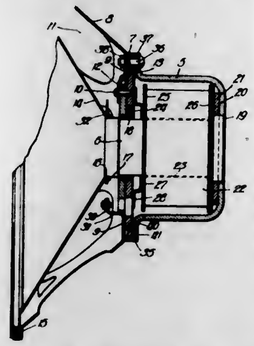
No Drawing. Application February 25, 1931 Serial No. 518,291
4 Claims. (Cl. 260—2)

1. A process of producing light colored tanning agents, which comprises condensing at least one carbohydrate, phthalic anhydride and at least one impure aromatic hydrocarbon with sulfuric acid and subjecting a dispersion of the soluble condensation product obtained to the action of a bleaching agent in amounts sufficient to substantially lighten the color, but insufficient to destroy the tanning properties thereof.

1,941,476
METHOD OF MAKING SOUND REPRODUCERS

Peter L. Jensen, La Grange, Ill., assignor to Jensen Radio Manufacturing Company, Chicago, Ill., a corporation of Nevada

Application June 27, 1930. Serial No. 464,275
3 Claims. (Cl. 29—155.5)



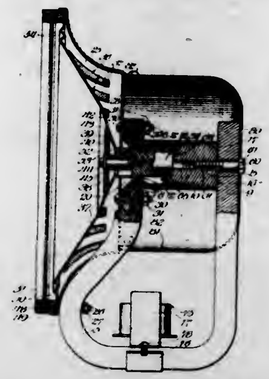
1. The method of mounting and positioning an end plate upon the open end of a cup-shaped casing having a flange at its open end and an inner pole piece secured to and projecting from the base of said casing which comprises engaging over the inner pole piece a socketed member carried by a movable carriage carrying drilling tools centered with respect to said socketed member in position to engage and form openings in the flange of said casing, moving the socketed member slidingly upon said inner pole piece ahead of the movement of said drilling tools to bring said tools into cooperation with the flange of the casing at positions centered with respect to said inner pole piece, operating said tools to form openings in the flange of the casing, engaging in the opening in the end plate a pin carried by a plunger carrying centering tools centered with respect to said pin to engage and form dowel pins on said plate, moving said pin through said opening to engage said centering tools with said plate to form the dowel pins on the plate, and assembling the end plate upon the open end of the casing with the inner pole piece extending into the opening in said end plate and the dowel pins on said plate in engagement with the openings in the flange of the casing.

1,941,477
METHOD OF MAKING MAGNETIC SOUND REPRODUCERS

Peter L. Jensen, Western Springs, Ill., assignor to Jensen Radio Manufacturing Company, Chicago, Ill., a corporation of Nevada

Original Application July 25, 1931, Serial No. 553,091. Divided and this application March 31, 1932. Serial No. 602,168
2 Claims. (Cl. 29—155.5)

1. The method of mounting and positioning a two-part member upon one of two spaced and integrally connected arms concentrically with respect to an opening in the other arm which comprises passing a relatively small diameter drilling tool through the opening in one arm with a gauge arranged on said tool and engaging in said opening to center the tool therein, operating said tool to form an opening in the other arm coaxial with respect to said first opening, introducing one part of the two-part member around the arm with said last opening and attaching same to said arm by means of said opening, passing a relatively large

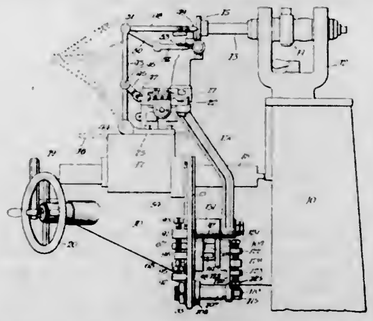


diameter drilling tool through said first opening with a gauge arranged on said tool and engaging in said opening to center the tool therein, operating said tool to form a recessed seat in the part of the member attached to the other arm coaxial with said first opening and inserting the other part of said two-part member through said first opening into said recessed seat and securing same therein in position with its opposite end projecting concentrically into said first opening.

1,941,478
GRINDING MACHINE

Leonard W. Johnson and Wilton F. Hoag, Batavia, Ill., assignors to Johnson Manufacturing Company, Batavia, Ill., a corporation of Illinois

Application March 21, 1929. Serial No. 348,931
34 Claims. (Cl. 51—94)

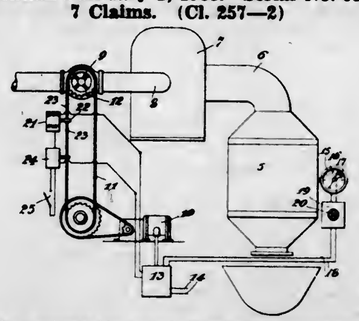


1. A grinding machine, comprising in combination a frame, a reciprocating tiltable table mounted thereon, tool holding means on said table, grinding means, a plurality of cams, and means to co-act with said cams whereby the said table is moved about its center as it is reciprocated, the said cams being individually adjustable.

1,941,479
AUTOMATIC VACUUM REGULATOR

Jacob Henry Lienau, New York, and Jacob John Neuman, Jamaica, N. Y.

Application February 1, 1933. Serial No. 654,693
7 Claims. (Cl. 257—2)

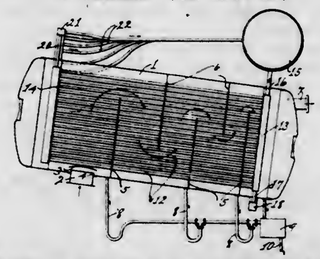


1. An automatic regulator for vacuum producing condensers comprising a valve controlling the supply of cooling water to the condenser, electrically controlled means connected with and operating said valve to its open and closed positions, and adjustable means directly influenced by the vacuum governing the current supply to said electrically controlled means to thereby variably position said valve and maintain a predetermined vacuum of substantially constant value.

1,941,480
STEAM BOILER AND MERCURY CONDENSER

Charles E. Lucke, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey

Application August 4, 1928, Serial No. 297,456
Renewed August 25, 1932
2 Claims. (Cl. 122—32)



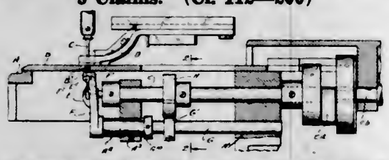
1. A steam boiler and a condenser for vapors of high boiling point liquids, comprising an inclined bank of tubes having headers, an enclosing vapor-tight shell for the said bank, means for introducing vapors of a high boiling point liquid into said shell at one end thereof, an outlet for non-condensible gases at the opposite end of said shell approximate the top, depending baffles intermediate the ends of the shell and cooperating with intermediate oppositely extending baffles to form a tortuous path for the vapors back and forth across the tubes from entrance to outlet of the condensate, the baffles being positioned with respect to each other to provide a vapor passage of continually decreasing area to maintain velocity of vapors over the tube from entrance to outlet as the vapor volume decreases due to condensation, and means draining condensate from the compartments set off by the oppositely extending baffles hereinabove identified.

1,941,481

SINGLE THREAD SEWING MACHINE

Michael McCann, Glen Morris, N. Y., assignor to Frederick Osann Company, New York, N. Y., a corporation of New York

Application July 12, 1929. Serial No. 377,736
5 Claims. (Cl. 112—200)



1. In a single thread sewing machine, the combination with a looper and its supporting shaft, of a rock shaft parallel to the looper shaft and at the opposite side of the latter from the work, an arm secured at one end to said rock shaft and provided at its other end with a needle guide surface and with a loop deflecting part, said surface and part being moved between the looper and the work when said rock shaft is oscillated.

1,941,482

DRAIN VALVE

Byron Mollberg, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application April 13, 1931. Serial No. 529,732
6 Claims. (Cl. 251—43)



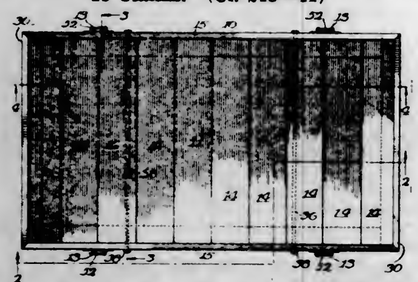
1. In a device of the class described, a valve body having a longitudinal passageway therethrough, said passageway having a restricted portion and a threaded portion, a valve member screw threaded into said threaded portion and extending through said restricted portion, said valve member having an integral head on the opposite side of said restricted portion from said screw threaded portion, said restricted portion being of smaller diameter than either said head or said threaded portion.

1,941,483

TABLE

Charles L. Moorman, Chicago, Ill.

Application April 20, 1928. Serial No. 271,426
13 Claims. (Cl. 248—41)



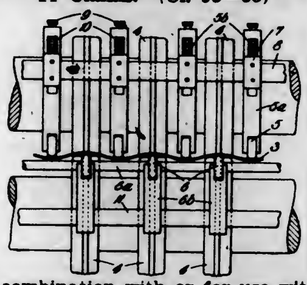
10. A load supporting platform comprising a plurality of transverse members, frame members to support said transverse members and adapted to receive the ends of said transverse members, and means at the ends of said frame members acting to draw them together to secure the transverse members in position.

1,941,484

APPARATUS FOR BENDING OR CREASING CARDBOARD, FIBER BOARD, OR THE LIKE

John Irving Nasmith, Eltham, London, England, assignor to Vickers-Armstrongs Limited, Westminster, England, a British company

Application October 3, 1932, Serial No. 635,903, and in Great Britain January 30, 1932
14 Claims. (Cl. 93—58)



1. In combination with or for use with apparatus provided with a plurality of sets of creasing or bending tools for forming more than two creases or bends simultaneously in cardboard, fiberboard or the like, means for imparting to the boards a multi-curvilinear form without compressing the boards and before they are fed to the said creasing or bending tools.

1,941,485

MANUFACTURE OF LEATHER

Richard Pasternack, Brooklyn, and Gordon O. Cragwall, Queens Village, N. Y., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a corporation of New Jersey

No Drawing. Application July 29, 1931
Serial No. 553,884
12 Claims. (Cl. 149—5)

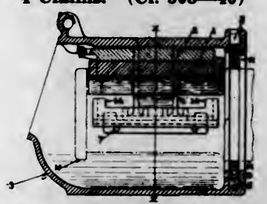
1. The step in the process of tanning hides and the like which consists in subjecting same to the action of a bath containing in solution aluminum and gluconic acid.

1,941,486

AUXILIARY LATERAL JOURNAL BEARING

John A. Pilcher, Roanoke, Va., assignor to Western Railway Equipment Company, St. Louis, Mo., a corporation of Missouri

Application January 14, 1931. Serial No. 508,604
4 Claims. (Cl. 308—40)



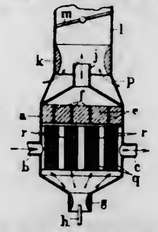
1. The combination with a journal box, of an axle positioned therein and provided with a reduced bearing surface situated between the unreduced body of the axle and a projecting end collar, a brass in said journal box and contacting with the upper part of the axle bearing surface, a keeper on the box walls, and an auxiliary bearing member adapted to be engaged with said keeper by a downward movement while the axle is in position in the box, said auxiliary bearing member extending between the body of the axle and the collar to limit the relative lateral movement of the axle and box.

1,941,487

CARBURETING PROCESS AND APPARATUS

Fernand Charles Frederic Portail, Gennevilliers, France, assignor to Societe Anonyme Le Carbone, Gennevilliers, France

Original application June 15, 1927, Serial No. 199,003, now Patent No. 1,795,037, dated March 3, 1931. Divided and this application August 20, 1929, and in France April 13, 1927. Serial No. 387,140
2 Claims. (Cl. 123—119)



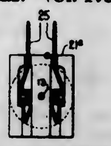
1. In a carburetor for internal combustion engines, the combination with a casing having a fuel nozzle and a fuel outlet port spaced from said fuel nozzle, of a catalytic body consisting of very active porous carbon arranged in said casing between said fuel nozzle and said outlet port, a group of tubes disposed between the fuel nozzle and said catalytic body, in which group each tube is individually arranged adjacent to said catalytic body, said catalytic body being arranged in a common position relative to all said tubes as a group, and means in said casing for leading exhaust gases into direct contact with the exterior walls of said tubes to heat the mixture of volatile fuel and air passing therethrough to a temperature between 300° C. and 400° C. prior to its contact with the catalytic body.

1,941,488

ELECTRICAL ATTACHMENT FITTING

Morris Propp, New York, N. Y., assignor to The M. Propp Co. Inc., New York, N. Y., a corporation of New York

Application July 28, 1925. Serial No. 46,557
8 Claims. (Cl. 173—334)



1. An electrical attachment fitting comprising a two-part insulating body, a plurality of unitary cross-shaped current carrying members housed within said body, each of said members comprising a pair of oppositely extending contact members, a terminal member, and a contact member extending oppositely to said terminal member, said current carrying members lying in planes transverse to the meeting plane of the body parts.

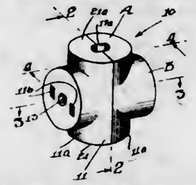
1,941,489

ELECTRICAL ATTACHMENT FITTING

Morris Propp, Far Rockaway, N. Y., assignor to The M. Propp Co. Inc., New York, N. Y., a corporation of New York

Original application July 28, 1925, Serial No. 46,557. Divided and this application March 13, 1926. Serial No. 94,413
6 Claims. (Cl. 173—334)

1. A fitting of the character described providing an insulating body made of two similarly formed parts secured in abutting relation, each of said parts having grooves formed in the abutting sides of said parts and grooves transverse to said sides and cooperating to form socket openings, a passage, and a chamber when said parts are assembled, current carrying members including terminal binding strips each secured at one end to a plurality of spring contact members extending into said socket openings, conductor wires extending thru said passage connected to said strips within said chamber, said chamber being formed with recesses receiving the free ends of said strips to provide strain relief means for said current carrying parts, said conductor wires having a knotted portion for coaction with said chamber walls to provide additional strain relief means.

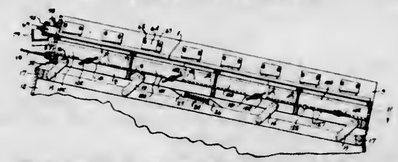


1,941,490

PROCESS AND MECHANISM FOR SEPARATING INTERMIXED DIVIDED MATERIALS

Richard Peale, St. Benedict, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a corporation of Delaware

Application January 23, 1930. Serial No. 422,781
24 Claims. (Cl. 209—469)



1. The process of purifying run of the mine coal which comprises maintaining a forwardly progressing bed of materials, concurrently horizontally stratifying and transversely approximately sizing the coal, and impelling the impurities in an inferior stratum toward the location of the finer particles of the bed to discharge.

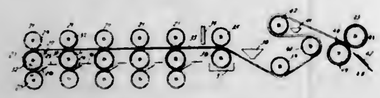
11. A mechanism for separating intermixed divided materials varying relatively greatly in size and varying relatively little in their specific gravities including in combination means for regulably supplying the intermixed materials to maintain a bed thereof undergoing separation, a table having an air pervious deck, means for forcing air currents through the deck, means for progressing the bed forwardly over said deck, discharge means for a settled heavier component material spaced apart along a side edge of the table and separating partitions directed transversely and rearwardly toward said discharge means.

16. A process of pneumatically purifying coal which comprises progressing a bed of intermixed coal and impurities along an air-pervious table, passing air upwardly through the bed, gradating the air pressure areally of the bed and further controlling the air by causing it to pulsate in independently controlled areas.

18. A mechanism for pneumatically purifying raw coal including in combination a vibratable air-pervious table, an air chamber for receiving and supplying a constant pressure of air beneath the table, means for locally pulsating the air cur-

rent passing through different areas of the table, and means for flexibly and independently controlling said local pulsating means.

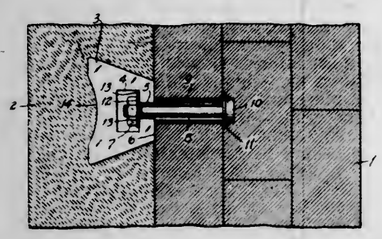
1,941,491
BUILDING PRODUCT AND METHOD OF MAKING SAME
Thomas Robinson, New York, N. Y., assignor to Lancaster Asphalt, Inc., New York, N. Y., a corporation of Delaware
Application July 10, 1928. Serial No. 291,638
18 Claims. (Cl. 154—2)



3. A sheet material comprising asphalt of a melting point sufficient to withstand solar heat without running, and unfelted fibre, the said asphalt and fibre being permanently sealed together in the dry state during formation of the sheet, the proportions of the asphalt and fibre being regulatably varied in different parts of the sheet.

4. A method of producing sheet material which comprises forming a sheet of non-aqueous plastic material capable of hardening and unfelted fibre, and building up the sheet by forming and applying thereto, a dry layer of plastic material and unfelted fibre, said layer having different proportions of plastic material and fibre from those present in said sheet, and sealing the layer to the sheet during building up of the sheet.

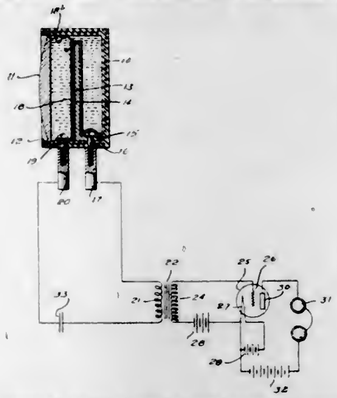
1,941,492
ANCHOR FOR REFRACTORY FURNACE LININGS
John H. Royall, Birmingham, Ala., assignor to A. P. Green Fire Brick Company, Mexico, Mo., a corporation of Missouri
Application October 28, 1931. Serial No. 571,583
5 Claims. (Cl. 72—101)



5. An anchor device for plastic fire brick furnace linings, said anchor device having a body formed of fire brick material and having a T-slot therein and a fastening bolt thinner than said slot and having an enlarged end portion fitting in said T-slot.

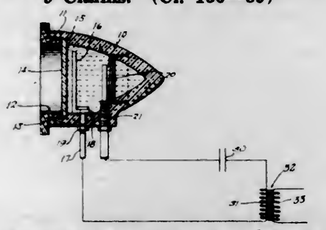
1,941,493
LIGHT SENSITIVE CIRCUIT
Samuel Ruben, New York, N. Y., assignor to Ruben Tube Company, Englewood, N. J., a corporation of Delaware
Application December 6, 1929. Serial No. 412,077
2 Claims. (Cl. 250—41.5)

1. In a circuit for translating light variations into electrical impulses, the combination of an electrolytic photo-voltaic cell, a capacitance and



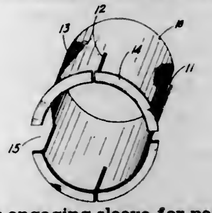
a load device, said capacitance being in series with said cell and said load device.

1,941,494
LIGHT SENSITIVE DEVICE
Samuel Ruben, New Rochelle, N. Y.
Application June 30, 1930. Serial No. 464,838
9 Claims. (Cl. 136—89)



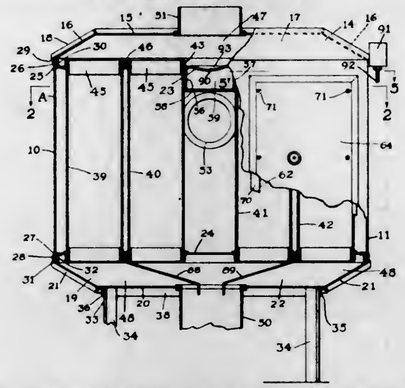
1. A photo-voltaic cell having a container, a photo-sensitive electrode comprising a copper base having a thermally integrally formed etched crystalline cuprous oxide surface, a cooperating electrode and an electrolyte in contact with both electrodes.

1,941,495
SLEEVE FOR PRINTING PRESS PAPER ROLLS
William Schoultheis, Southgate, Ky., assignor to The Scripps-Howard Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application November 21, 1932
Serial No. 643,646
5 Claims. (Cl. 242—68)



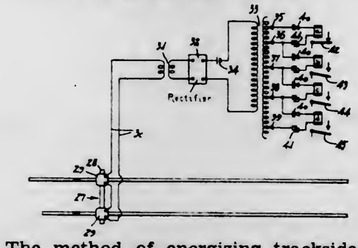
4. A chuck engaging sleeve for paper rolls comprising a tubular member formed with a full length slot to facilitate insertion into the paper roll, a kerf extending inwardly from the outer end of said tubular member, and a driving lug engaging notch extending inwardly from said last named end of the tubular member.

1,941,496
ECONOMIZER
Albert C. Schleh, St. Paul, Minn.
Application May 29, 1933. Serial No. 673,432
10 Claims. (Cl. 257—167)



2. In an economizer, a case, spaced partitions in said case forming chambers at the ends of the case, a plurality of juxtaposed cylindrical ducts extending between said partitions and bringing said chambers into communication, said ducts being arranged to form a reentrant angle therebetween, said case forming in conjunction with said ducts a passageway extending about said ducts, a deflector plate pivoted to said case and being adapted to swing into the space defined by said reentrant angle to a position substantially parallel with the portion of one of the ducts at said angle and to swing into a position substantially parallel with the general direction of extent of said passageway at such locality.

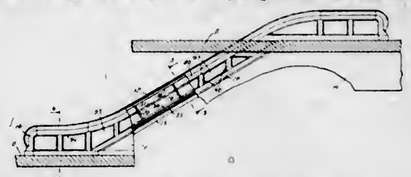
1,941,497
AUTOMATIC TRAIN CONTROL
Daniel Herbert Schweyer, Easton, Pa.
Application July 27, 1929. Serial No. 381,564
21 Claims. (Cl. 246—63)



1. The method of energizing trackside train control elements consisting in continuously generating from a single source, at least three currents of different frequencies obtained one from the other, and selectively transmitting a single one of such currents to said elements and disconnecting the other currents from said elements.

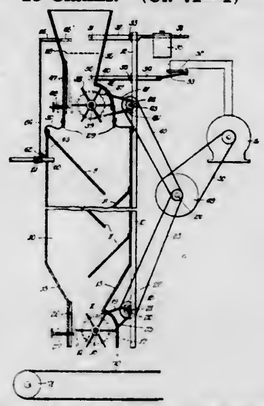
1,941,498
BALUSTRADE FOR MOVING HAND RAILS
Harold W. Shonnard, Montclair, N. J.
Application February 17, 1931. Serial No. 516,323
31 Claims. (Cl. 198—16)

1. In combination with an endless movable hand rail, a balustrade comprising a frame having a plurality of spaced stanchions having an upper portion arranged to support the upper run of the hand rail and a longitudinal member interconnecting the stanchions, a post at one side of



the return run of the hand rail and spaced arms projecting laterally beyond the other side of said return run, and cover plates fastened to said frame.

1,941,499
CONTINUOUS AUTOMATICALLY CONTROLLED ABSORPTION SYSTEM
Herman B. Siems, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application May 29, 1930. Serial No. 456,904
13 Claims. (Cl. 71—1)

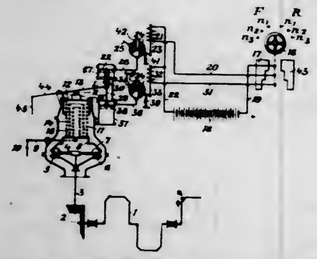


1. A mixing device of the character described comprising a chamber, means for charging said chamber with solid material and means for discharging the solid material from said chamber both of said means being constructed to provide seals by predetermined accumulations of material associated therewith whereby to prevent leakage of gas from said chamber, and means for driving said charging and discharging means in synchronism and means for automatically stopping said means when said accumulations of material become diminished below said predetermined amount.

1,941,500
INTERNAL COMBUSTION ENGINE - ELECTRIC INSTALLATION FOR VEHICLES
Oscar Simmen, Erlach, Switzerland, assignor to the firm of Sulzer Freres Societe Anonyme, Winterthur, Switzerland
Application September 23, 1931, Serial No. 564,488, and in Switzerland September 30, 1930
6 Claims. (Cl. 123—97)

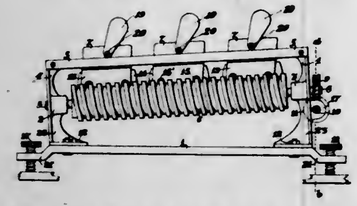
1. In an internal combustion engine-electric installation for vehicles of the kind described, the combination with a speed regulator or governor for the engine, of a device, such as a spring, adapted to be brought into operation during the

change from one operating speed to another and arranged to control the governor setting and characteristics so that the speed variations per-



mitted to the engine are substantially the same in the neighbourhood of each operating speed and in each case the range of their variations will be outside the critical speeds of the engine.

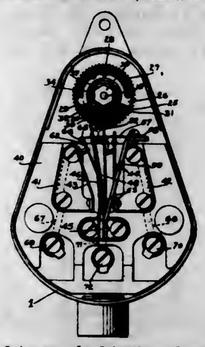
1,941,501
GRINDING AND POLISHING MACHINE FOR CUTTING TOOLS
Leo Steiner, Budapest, Hungary
Application October 21, 1930, Serial No. 490,122, and in Germany August 22, 1929
3 Claims. (Cl. 51—80)



1. A machine for operating on a number of cutting tools simultaneously, comprising a pair of grooved interlocking cylinders arranged at a slope with respect to the horizontal so as to form at the intersection of their surfaces an inclined grinding path wedge-shaped in cross section, means for rotating said cylinders in opposite directions and against the edge of said grinding path, tool-holders weighing on the tools so as to withhold them from being forced out from between the cylinders and make them descend on said inclined grinding path, and a guide for said tool-holders preventing the deviation of the tools from the plane of symmetry of the grinding path but allowing unlimited displacement in said plane of symmetry, there being no other contact between the guide and the tool-holders than in planes parallel to said plane of symmetry.

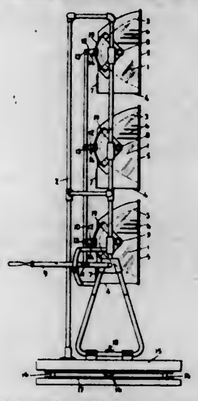
1,941,502
THERMOSTATIC SWITCH
Daniel G. Taylor, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 18, 1931. Serial No. 545,227
6 Claims. (Cl. 200—138)

6. In combination a switch control element, a switch arm movable with the control element, latching means mounted independently of the control element and switch arm and adapted for holding the switch arm in either control position, means for operating said latching means as the result of motion of the control element to move the latch to latching position and to trip the latch on continued motion of the control element in the same direction, said control element



being adapted to apply biasing force and to continue application while the latch is tripped.

1,941,503
LIGHTING DEVICE
William Amherst Villiers, Knightsbridge, London, England, assignor to The General Electric Company Limited, London, England
Application June 7, 1932, Serial No. 615,796, and in Great Britain June 18, 1931
3 Claims. (Cl. 240—1.2)

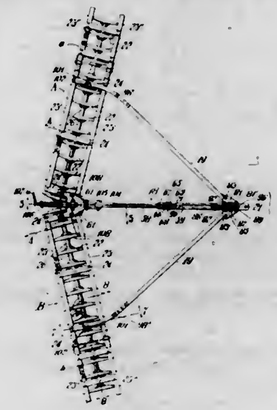


1. An airport landing light comprising a framework, a plurality of trough reflectors pivotally mounted horizontally one above the other in the framework so as to face in substantially the same direction, a plurality of horizontal pivots extending axially of the reflectors about which the reflectors are individually rotatable, means for connecting the reflectors together for rotation in the same direction about their individual pivots, and means for disconnecting the individual reflectors from said connecting means for individual rotative adjustment.

1,941,504
HARROW
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 13, 1928. Serial No. 312,325
54 Claims. (Cl. 55—81)

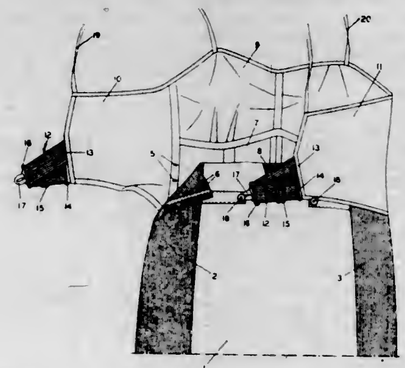
1. In a disk harrow adapted to be propelled forwardly and rearwardly by a draft force, the combination of two oppositely extending disk

gangs, means associated with said gangs to swing the outer ends thereof in a generally fore and aft direction relative to the adjacent ends, means associated with the gangs to swing the adjacent ends of the gangs in a generally fore and



aft direction relative to the outer ends, draft means for applying a draft force to said first two means, and means for controlling the application of the draft force to said two first mentioned means.

1,941,505
COMBINATION GARMENT
Hildegard Wipperman, Chicago, Ill., assignor, by mesne assignments, to The H. W. Gossard Company, Chicago, Ill., a corporation of Delaware
Application February 9, 1933. Serial No. 655,866
3 Claims. (Cl. 2—30)

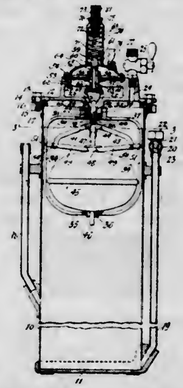


1. A combination garment comprising a corset, a brassière having a front portion secured to the upper front edge of said corset, flaps secured to the sides of the corset from the upper edge thereof to about the waistline and extending rearwardly beyond the sides of the garment, freely looped elastic straps attached to the outer ends of said flaps, means slidably carried on said looped elastic straps for fastening said straps to the back of the corset, and means for varying the tension of said straps at points between their respective flaps and fastening means.

1,941,506
PROCESS FOR RECOVERING NONFERROUS METALS FROM MELTS CONTAINING METAL OXIDES
Wilhelm Witter, Halle, Germany, assignor to Firma M. Lissauer & Cie, Cologne-on-the-Rhine, Germany
No Drawing. Application December 5, 1930, Serial No. 500,165, and in Germany December 27, 1929
7 Claims. (Cl. 75—17)

1. A process for recovering non-ferrous metals from material containing an oxide of at least one of the metals copper, nickel, tin, lead, bismuth and antimony, which comprises melting said material, passing reducing gases through said molten material while heating it in a furnace in which the heating gases are introduced into the interior thereof from above the surface of the melt, and regulating the interaction between said reducing gases and the combustion gases in such a manner that a neutral to slightly reducing atmosphere obtains at the surface of the melt, whereby are recovered—as far as originally present in the material treated—copper and nickel wholly, and tin, lead, bismuth, antimony at least partly in a reguline form.

1,941,507
TAPPING APPARATUS
Edward Zahm, Buffalo, N. Y., assignor to Zahm & Nagel Co. Inc., Buffalo, N. Y., a corporation of New York
Application July 22, 1932. Serial No. 624,040
3 Claims. (Cl. 225—8)



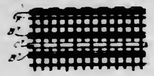
1. A tapping apparatus comprising a cooling tank adapted to hold a liquid to be dispensed and provided with a liquid inlet, a liquid outlet, and a top provided with an air outlet nozzle, a valve disk engaging the underside of said nozzle and having an air outlet port and a relief valve seat surrounding said port, a cage arranged within said tank and provided on its upper part with a collar secured to said nozzle and engaging with the underside of said valve disk, a relief valve movable toward and from said seat and having a guide stem projecting into said port, a supporting bar having its central part connected with said relief valve, a float arranged within said cage and having upper and lower guide stems guided on said supporting bar and cage and provided with an annular groove, and two shifting levers each pivoted between its ends on one end of said supporting bar and pivoted at its outer end on the cage and engaging its inner end with said groove on the float.

1,941,508
KNITTED MITTEN AND METHOD OF MAKING THE SAME
Dewey Zwicker, Appleton, Wis., assignor to Zwicker Knitting Mills, Appleton, Wis., a corporation of Wisconsin
Application March 26, 1932. Serial No. 601,377
3 Claims. (Cl. 66—174)



1. The method of knitting a mitten which consists of knitting in tubular seamless form a ribbed wrist portion, then knitting a tubular seamless body portion integral therewith of jersey stitch, next changing the stitch to a rib stitch and knitting a tubular seamless tip portion of a desired length and with the same number of rows of stitches as said body portion, unraveling several of the outer rows of knitting of the tip portion, and finally utilizing said unraveled threads to draw and secure the end of the tip portion together at an apex to provide a contracted closed ovate tip portion.

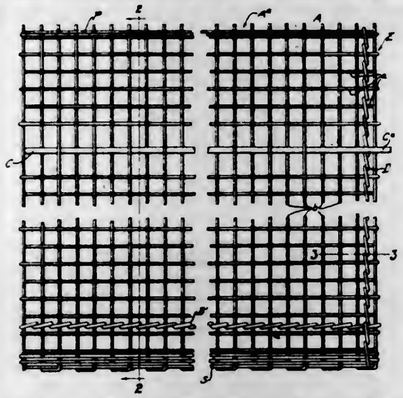
1,941,509
BAG
Henry H. Allen, Huntington Bay, Long Island, N. Y., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application March 16, 1931. Serial No. 522,869
6 Claims. (Cl. 150—11)



1. A bag formed of open mesh, woven fabric, closely woven strands of fabric providing a selvage edge at the mouth of said bag, a drawstring which constitutes a woven strand of said fabric, said drawstring being interwoven with substantially all of the strands of fabric which extend transversely with respect thereto, and a group of closely arranged strands of the fabric adjacent to said drawstring for imparting strength to the bag at that point, the last-mentioned group of closely arranged strands of fabric being entirely distinct from and independent of the closely woven strands of fabric which provide the selvage edge at the mouth of the bag.

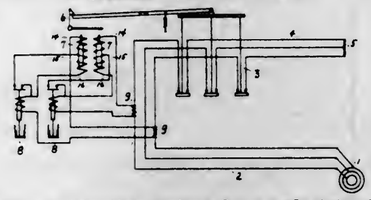
1,941,510
BAG
Thomas M. Scruggs, St. Louis, Mo., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application November 23, 1931
Serial No. 576,807
5 Claims. (Cl. 150—1)

1. A bag formed of woven open mesh fabric and having an unselvaged edge, a group of relatively closely adjacent strands interwoven with the strands of the fabric to form a false selvage at the said unselvaged edge, and a binder material



applied to said strand group to secure the several strands thereof together and to the said fabric strands.

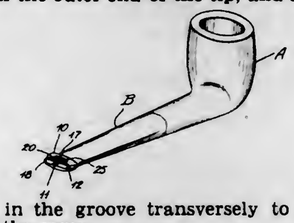
1,941,511
TRIP COIL
Robert St. Clare Seese, Detroit, Mich.
Application August 4, 1930. Serial No. 472,833
4 Claims. (Cl. 175—294)



1. In a protective system for an electric circuit embracing a source of current, a supply circuit having current transformers therein and a load circuit having therein a circuit breaker controlled by means responsive to overload conditions in said circuit, a tripping coil for opening said circuit breaker when the circuit it protects is subjected to overload conditions, said coil having two axially aligned windings connected in series and disposed in end-to-end relationship with an axially pierced disk of magnetizable material intermediately disposed between and separating the two windings, a frame of similar material outside the coil serving to provide a path for magnetic flux, said windings surrounding a magnetizable plunger axially movable within the bore of said coil, said plunger being actuated to cause the opening of said breaker only when one of said windings is automatically short-circuited and the current normally flowing therethrough drops substantially to zero, short-circuiting of said winding being effected by a relay operative only when the output of current transformers in the supply circuit is increased to a predetermined value by overload conditions arising in the protected load circuit.

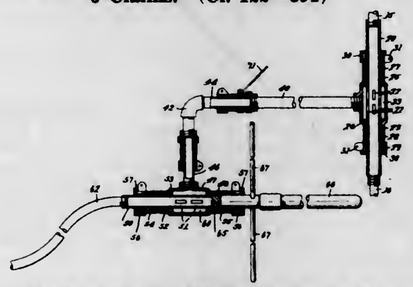
1,941,512
MOUTHPIECE FOR TOBACCO SMOKING DEVICES
Richard Sleeman, New York, N. Y.
Application June 12, 1931. Serial No. 543,883
6 Claims. (Cl. 131—12)

1. In a mouthpiece for tobacco smoking devices, the combination of a tip having a draft bore leading therethrough and a transverse groove in the outer end of the tip, and a member



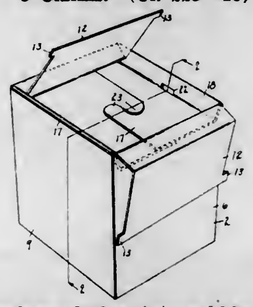
slidable in the groove transversely to the bore to close the same.

1,941,513
APPARATUS FOR CLEANING BOILER TUBES
Francis J. Steutermann, Webster, Mass.
Application March 7, 1932. Serial No. 597,134
6 Claims. (Cl. 122—391)



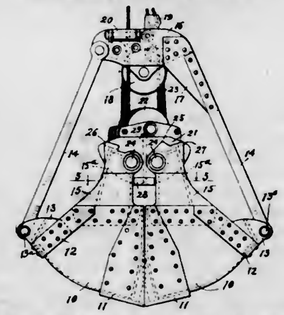
1. Apparatus for cleaning boiler tubes comprising a main steam line, a tubular arm mounted to swing in a plane prependicular to the axis of said main steam line and having a continuous steam connection therewith, an L-shaped tubular member mounted to swing about the axis of said tubular arm, a steam header mounted to swing on the outer end portion of said L-shaped member in a plane perpendicular to the axis of said outer end portion, a bushing rotatable in said header and having a continuous steam connection therewith, and a nozzle for said bushing having an offset end portion adapted to be inserted in a selected boiler tube.

1,941,514
BOX
Louis W. Sutherland, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan
Application March 23, 1932. Serial No. 600,737
5 Claims. (Cl. 229—16)



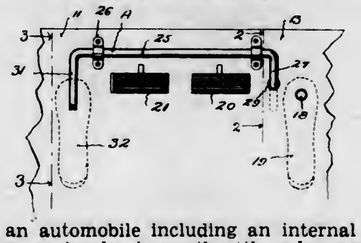
1. A box formed of an integral blank and comprising a bottom portion and opposed side wall portions extending from opposite edges of the bottom portion, and side wall flaps extending from the other opposite edges of the bottom portion, said opposed side wall portions having laterally extending overlapping side wall extensions on their vertical edges and outer cover flap extensions at their outer end, said outer cover flap extensions having laterally projecting tongues at the ends thereof, the inner of said side wall extensions having inner cover flap extensions at their outer ends terminating in coengaging tongues, said inner and outer cover flap extensions having spaced parallel scores to facilitate folding within the side walls in inset overlapping relation, said inner cover flap extensions having holes therein positioned to receive the tongues on the outer cover flaps whereby the cover flaps are retained in overlapping interlocked relation and an inset cover provided.

1,941,515
GRAB BUCKET
William C. Swalley, Cleveland, Ohio, assignor to The Wellman Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application July 5, 1932. Serial No. 620,763
15 Claims. (Cl. 37—186)



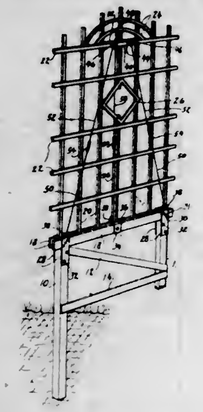
4. A grab bucket comprising a lower sheave block, a pair of hinge members pivotally connected to each side of said block, jaws associated with said members, and a detachable stop carried by said block and arranged between the members of a pair of members.

1,941,516
LEFT FOOT FEED
George H. Sweet, Green Bay, Wis.
Application March 13, 1933. Serial No. 660,495
1 Claim. (Cl. 74—81)



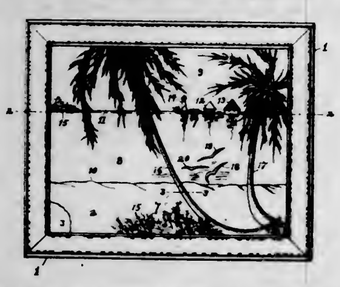
In an automobile including an internal combustion engine having a throttle valve provided with an operating crank, footboards, clutch and brake pedals extending through said footboards, a bell crank, means operatively connecting one arm of the bell crank to the crank of the throttle valve, a foot pedal located on one side of the brake pedal operatively connected to the other arm of the bell crank, a transversely extending rock shaft having a manipulating foot pedal on one end thereof located adjacent to the clutch pedal, and an actuating crank on the other end of the rock shaft having a shoe engaging the bell crank.

1,941,517
TRELLIS
Vasile V. Tincu, Detroit, Mich.
Application November 28, 1932
Serial No. 644,602
2 Claims. (Cl. 47—47)



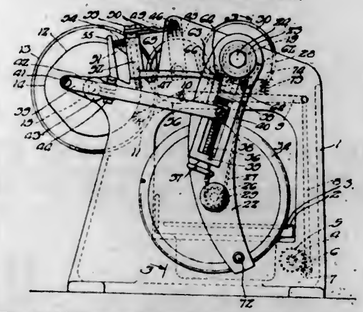
1. A demountable trellis assembly comprising, in combination, a base support member adapted to be permanently implanted in the ground and including spaced pins projecting upwardly therefrom, a lattice assembly including a reinforcing base portion provided with spaced passageways therethrough adapted to cooperate with said projecting pins to position said lattice assembly upon said base support, means fixedly positioned to said transverse reinforcing base portion of the lattice assembly and extending downwardly therefrom adapted to lie in superposed relation to said base support, and means for securing the same to said base support.

1,941,518
ART PICTURE
Beatrice C. Twichell, Miami, Fla.
Application August 14, 1931. Serial No. 557,137
1 Claim. (Cl. 41—34)



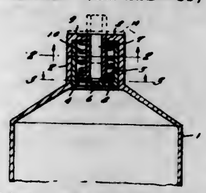
An art picture comprising, in combination, a scenic painting in colors forming a background, natural appearing objects formed in miniature with relation to the respective objects which they represent, and formed manually in miniature from their respective natural materials in their natural colors superimposed upon said background, means for retaining the natural appearing objects upon the background, and means for enclosing all of said parts in displaying condition, all substantially as shown and described.

1,941,519
DRIVING MEANS FOR SLICING MACHINE KNIVES
Wilhelmus Adrianus van Berkel, Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application April 3, 1930, Serial No. 441,207, and in Germany April 5, 1929
15 Claims. (Cl. 146—103)



1. In a slicing machine the combination with a substance support, of a rotatable slicing knife adapted to reciprocate relatively to said support, and means for varying the number of reciprocations per unit of time without substantially changing the linear speed of movement of said knife over its path of reciprocation or without materially changing the speed of rotation of said knife about its axis.

1,941,520
SELF-SEALING TUBE
Paul C. Wiegandt, Brooklyn, N. Y.
Application April 4, 1932. Serial No. 603,069
5 Claims. (Cl. 221—60)

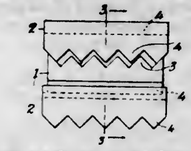


1. A flexible tube comprising in combination, an outlet neck, and a closure therefor comprising a valve including a cage fitting snugly within said neck and having a valve seat provided with a circular series of holes adjacent the peripheral edge thereof, a hollow stem slidably operating within the cage and having an outer end adapted to be projected outwardly through the outer end of said outlet neck and an inner end provided with a head of slightly less diameter than the cage and adapted to engage with said seat to seal the tube and to be moved off of said seat to cause the contents of the tube entering the cage to discharge through said stem; and elastitc means urging said head into engagement with said seat.

1,941,521
FRICTION SPRING DEVICE
Oscar R. Wikander, Pittsburgh, Pa., assignor to Edgewater Steel Company, Pittsburgh, Pa.
Application July 7, 1930. Serial No. 466,306
10 Claims. (Cl. 267—1)

1. A friction spring device of the character set forth, comprising a plurality of superimposed

plates provided with interengaging inclined friction surfaces arranged to produce duo-direc-



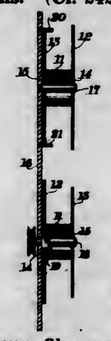
tional tension and compression stresses in said elements when the spring device is compressed.

1,941,522
MOTION PICTURE FILM SPOOLING SYSTEM
Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application August 2, 1930. Serial No. 472,678
13 Claims. (Cl. 242—71)



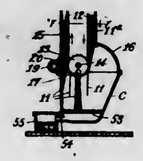
1. In a film spooling apparatus for motion picture apparatus the combination of two spindles having dissimilar configurations thereon, a double flanged reel having an aperture in each flange, one of said apertures being adapted to receive one of said spindles only and the other of said apertures being adapted to receive the other of said spindles only.

1,941,523
FILM REEL AND SUPPORT THEREFOR
Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application August 2, 1930. Serial No. 472,679
9 Claims. (Cl. 242—71)



3. A motion picture film reel or the like including two axially spaced flanges of different diameters adapted for removable mounting on a support member and means cooperating with the outer rim of the larger flange to prevent reverse mounting of the reel on the support member.

1,941,524
AIR FILTER APPARATUS
Hans Wittemeier, Berlin-Grunewald, and Willy Neumann, Berlin - Charlottenburg, Germany; said Wittemeier assignor to Midwest Manufacturing Company, Inc., Louisville, Ky., a corporation of New York
Application September 9, 1931, Serial No. 561,858, and in Germany September 10, 1930
14 Claims. (Cl. 183—9)



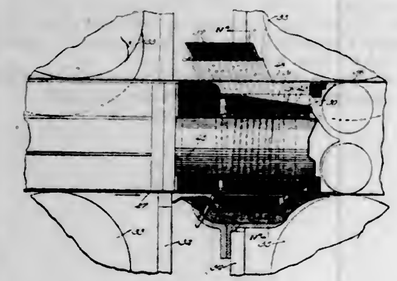
1. In an air filter apparatus having filtering and cleaning zones, a filtering element comprising a traveling surface adapted to pass through said zones, said surface having a viscous coating for retaining foreign particles separated by the element during its travel through the filtering zone, and a pair of nozzles in the cleaning zone, one of said nozzles being adapted to clean the element by spraying a liquid over its surface, and the other nozzle being adapted to coat the element by spraying a viscous liquid over its surface.

1,941,525
CONVEYER
Roy R. Worrall, Webster Groves, Mo., assignor to Alvey Conveyor Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application April 29, 1932. Serial No. 608,175
13 Claims. (Cl. 198—20)



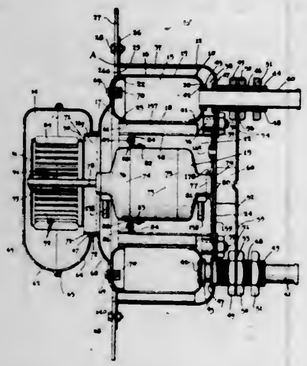
1. A conveyer comprising a rollerway having a convex upper portion, a concave lower portion and a substantially upright intermediate portion, means for moving articles along said rollerway, and a belt movable at substantially the same speed as said means and located opposite the upright portion of said rollerway in position to hold such articles on the rollerway.

1,941,526
INDUCTION WELDER
James L. Adams, Jr., Youngstown, Ohio, assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio, a corporation of Ohio
Application April 11, 1932. Serial No. 604,518
19 Claims. (Cl. 219—6)



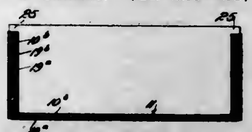
1. In an electric induction welder, a core, a primary inducing coil around the core having turns disposed thereon in planes at a substantial inclination to the coil axis, and means for advancing the work to be welded past the core and coil while maintaining the work in electromagnetically linked relation therewith.

1,941,527
AIR HEATER
Irving E. Aske, Minneapolis, Minn.
Application January 19, 1931. Serial No. 509,775
20 Claims. (Cl. 257—137)



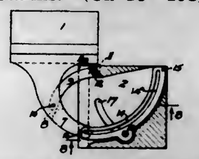
4. A heater comprising a toroidal radiator having a central compartment, a shell enclosing said radiator, provided with a sleeve encircling said radiator and spaced therefrom and a back spaced from said radiator to provide an outer annular passageway and a radial passageway communicating therewith, a sleeve within said compartment spaced from the radiator to provide an inner annular passageway communicating with said radial passageway, a motor within said sleeve and means for impelling the flow of air operated by said motor and communicating with said inner annular passageway for causing the flow of air through said passageways.

1,941,528
BOX
Champe S. Andrews, North Chattanooga, Tenn., assignor to The Guardian Trust Company, Cleveland, Ohio, a corporation of Ohio, as trustee
Application July 22, 1931. Serial No. 552,369
3 Claims. (Cl. 229—23)



1. A laminated polyhedral box, the body of which includes a main body-portion composed of a relatively thick inner layer of laminated paper board of inferior material and a continuous superficial outer layer of relatively thin paper material capable of being bent to provide the outside angular edges of the box, the relatively thick layer being pre-cut within and for the length of the running angular edges of the box so as to provide cut surfaces which are in mutual abutting relation, with joints between, and an inner lining of laminated paper board glued throughout to the inner surfaces of vertical walls of the body-portion so as to cover the joints inwardly of the running angular edges of the box and to thicken such vertical walls, the lining terminating at the upper edges of such walls of the body-portion, such thickened walls being of a thickness of approximately one hundred and fifty points, the thickness of the lining being approximately one-half of the thickness of the main body portion, so as to provide vertical walls having the thickness of the walls of standard cigar boxes, and adapted to receive and secure nails.

1,941,529
HINGE
Fred G. Bates, Highland Park, Mich.
Application September 1, 1931. Serial No. 560,579
8 Claims. (Cl. 16—164)

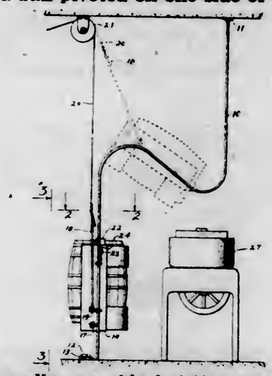


1. A hinge comprising two members, an outwardly projecting arm integral with one of said members, guide means pivoted on the other member, cooperating means in said arm and guide means along which said arm is adapted to travel, means cooperating with said other member for holding said guide means against pivotal movement, and supporting means for said other member pivoted thereto and to said arm.

1,941,530
ELEVATING AND DUMPING DEVICE
Arthur R. Beck and John S. Warren, Chicago, Ill.
Application March 20, 1931. Serial No. 524,007
1 Claim. (Cl. 214—1.1)

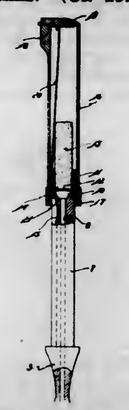
In an elevating device a pair of stationary guide tracks of substantially Z shape; a carrier movable between said guide tracks comprising a rectangular frame and a pair of laterally extending ribs attaches thereto; guide members on said carrier movably engaging said guide

tracks said guide members comprising swivel eyelets to permit slidable movement along said tracks; a bail pivoted on one side of said carrier,



and manually operable hoisting means adapted to elevate said carrier to inverted position between the angles of said guide tracks.

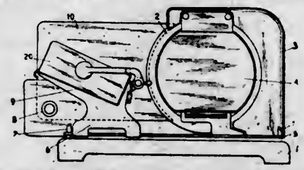
1,941,531
CIGARETTE HOLDER
John R. Blankenship, Detroit, Mich.
Application December 6, 1930. Serial No. 500,511
3 Claims. (Cl. 131—10)



1. A cigarette holder of the class described, comprising: an elongated holding member having a socket formed in one end for reception of a cigarette; an enveloping member slidably mounted on said holding member; a closure for the outer end of said enveloping member; and means for moving said closure to open and closed positions upon relative movement of said enveloping member and said holding member to predetermined positions, said holding member having a passage formed throughout its length and communicating at one end with said socket.

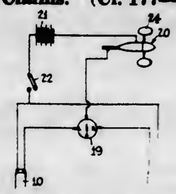
1,941,532
SLICING MACHINE
Walton J. Barnes, Birmingham, and Herman G. Winkler, Detroit, Mich., assignors to Barnes Scale Company, Detroit, Mich., a corporation of Michigan
Application February 16, 1931. Serial No. 515,976
7 Claims. (Cl. 146—102)

1. In a slicing machine, the combination with a knife, a gauge plate, a carriage for moving material past the cutting edge of the knife, of an apertured boss on the carriage, an abutment face on the carriage extending at an angle to the aperture, a bracket, a stud on the bracket adapted



to be received in the aperture, an abutment face on the bracket for wedging against the abutment face on the carriage, and a face plate carried by the bracket and reciprocable with respect thereto.

1,941,533
INDICATOR FOR AIRCRAFT
Joseph S. Bennett, Bradford, Pa.
Application June 23, 1930. Serial No. 463,077
10 Claims. (Cl. 177—311)



10. In combination, in aircraft, a normally open electrical circuit, means responsive to a predetermined change in the flight position of the aircraft to close said electrical circuit, a wind driven variable speed circuit interrupter within said electrical circuit operable independently of whether or not said electrical circuit is closed, the speed of operation of said circuit interrupter being dependent upon and variable with the speed of the aircraft, and a variable speed indicating means for signaling the fact that a deviation in the flight position of the aircraft has occurred, said indicating means being adapted to act upon the tactile senses of the pilot and being responsive in its operation to the operation of said circuit interrupter.

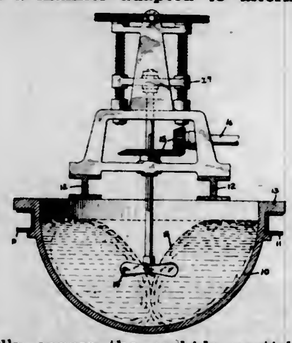
1,941,534
PROCESS FOR FORMING ALLOYS
Jesse Oatman Betterton, Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 20, 1930
Serial No. 437,603
8 Claims. (Cl. 75—1)

1. The process of forming alloys of lead with metals of the alkaline earth group and magnesium which comprises adding said metals in the form of carbide particles to a bath of molten lead, covering said molten lead bath with a protecting slag, and dissolving undesired coatings and removing impurities from the surface of said particles by means of said slag, whereby an intimate contact between carbide particles and the lead is obtained.

1,941,535
PROCESS OF FORMING ALLOYS
Jesse Oatman Betterton, Metuchen, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application April 13, 1933, Serial No. 666,040, and in Canada December 23, 1932
9 Claims. (Cl. 75—1)

1. Process of forming metal alloys which comprises adding an alkaline earth metal in car-

bide form to a molten metal bath sealed with a suitable cover slag and vigorously agitating said bath in a manner adapted to alternately and



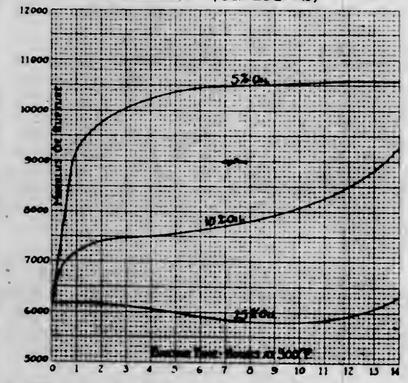
repeatedly expose the carbide particles to the cleansing and dissolving action of the slag and to the alloying action of the molten metal.

1,941,536

HARD VEGETABLE FIBER PRODUCT OF HIGH STRENGTH AND PROCESS OF MAKING SAME

Robert M. Boehm, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware

Application May 18, 1932. Serial No. 612,072
9 Claims. (Cl. 154—2)



1. The process of making a fiber product of great dry and wet strength which comprises subjecting to consolidating pressure and heat until dry a moist mass of vegetable fiber having a sufficiently large non-cellulose content to bond the fibers together, and in subjecting the same with a drying oil content the quantity of which is less than one-half that which is necessary to saturate the mass after consolidation, to highly heated air for a sufficient time to greatly increase the modulus of rupture of the material.

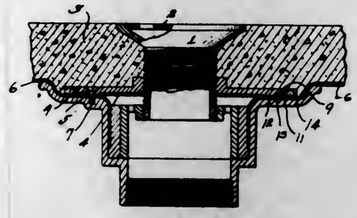
1,941,537

SEEPAGE JOINT

Edward W. N. Boosey, Detroit, Mich.

Application December 17, 1930
Serial No. 503,055
3 Claims. (Cl. 285—37)

3. In a plumbing fitting, a seepage joint between upper and lower hollow portions thereof comprising an apertured apron, said portions each having a lateral flange between which the apron is positioned with the opening thereof in registration with the openings through the said hollow portions, means for securing the flanges together in binding engagement with the apron, the lower surface of the flange of the upper portion having grooves providing passageways for



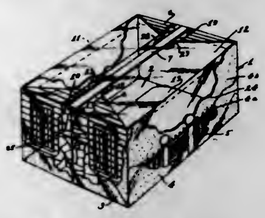
fluid, there being an opening provided in the fitting through which fluid from the said passageways may discharge into the fitting, the said grooves having an inner end section offset relative to an outer end section whereby the apron is held in contact with both flanges opposite the offset portions of the grooves.

1,941,538

CONTAINER FOR ICED CAKE

Thomas C. Costello, Beverly Hills, Calif., assignor to Western Bakeries Corporation, Ltd., Los Angeles, Calif., a corporation of California

Application August 2, 1932. Serial No. 627,257
5 Claims. (Cl. 206—44)



1. A container for an iced cake, comprising a box having a bottom and side walls including an opposite pair of side walls with integral flaps projecting toward each other in a substantially horizontal position over the interior of the box, a bar separate from said flaps extending over the interior of the box, said flaps having means for securing the ends of said bar adjacent the upper edges of said opposite walls, said bar constituting a support to maintain a wrapper applied to the box, out of contact with the icing on the cake.

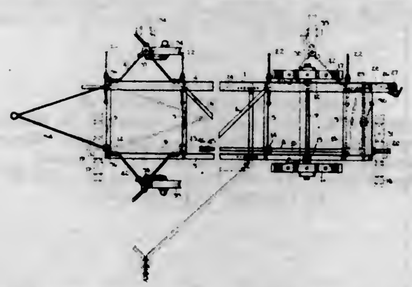
1,941,539

ROD WEEDER

Frank T. Court, William Christensen, and Christian E. Johnson, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application November 3, 1930. Serial No. 492,930
21 Claims. (Cl. 97—42)

1. An implement comprising an elongated frame, supporting wheels for said frame, said wheels including caster wheels and drive wheels, detachable bracket means for mounting certain of the caster wheels in two positions on said frame, and detachable bearing means for mounting the drive wheels in two positions on the frame, whereby said implement may be optionally transported either transversely or longitudinally.

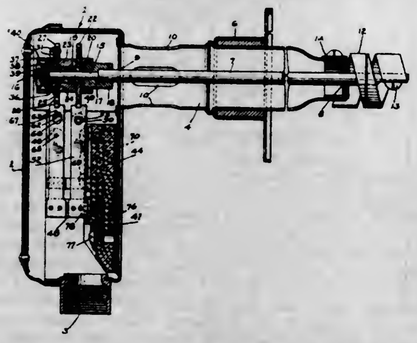


1,941,540

THERMOSTATIC SWITCH

Frederick S. Denison and Daniel G. Taylor, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application June 18, 1931. Serial No. 545,349
22 Claims. (Cl. 200—138)



20. A switching mechanism of the class described comprising, in combination, an actuator movable in reverse directions, first and second switches, means associated with the actuator and first switch for moving the latter to closed circuit position upon movement of the actuator in a first direction and for moving the same to open circuit position upon reverse movement of the actuator, and means including a lost motion connection associated with the actuator and second switch for moving the same to open circuit position with a relatively fast motion after said first switch has been moved to closed circuit position upon movement of the actuator in the first direction and for moving the second switch to closed circuit position with a relatively fast motion after said first switch has been moved to open circuit position upon reverse movement of said actuator.

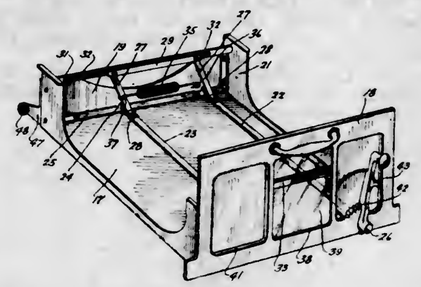
1,941,541

STOVE DRAWER

Claude M. Dibble, Joliet, Ill., assignor to Moore Brothers Company, Joliet, Ill., a corporation of Illinois

Application April 19, 1930. Serial No. 445,558
6 Claims. (Cl. 126—340)

1. In a broiler drawer, the combination of a broiler pan, a device for raising and lowering the broiler pan within the drawer, and means counterbalancing the weight of the broiler pan in its raising and lowering.

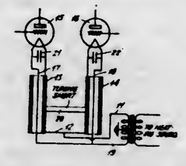


1,941,542

TUNING ARRANGEMENT

Orville E. Dow, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application May 19, 1932. Serial No. 612,297
12 Claims. (Cl. 250—27)



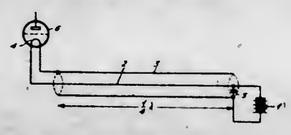
4. An energizing circuit for the cathode of an electron discharge device comprising a source of heating current, and connections from said source to the legs of said cathode comprising a conducting tube connected to one of said legs, and a conductor within said tube and insulated therefrom connected to the other of said legs, and a tuning strap arranged to be adjustable over the surface of said conducting tube.

1,941,543

HIGH FREQUENCY RADIO SIGNALING APPARATUS

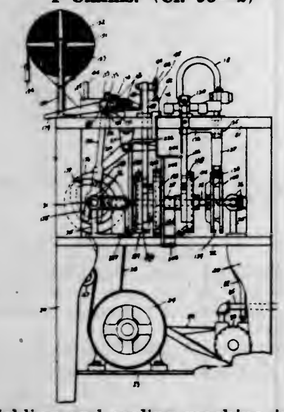
Owen Standidge Puckle, Sydenham, London, England, assignor to Radio Corporation of America, a corporation of Delaware

Application July 14, 1932, Serial No. 622,475, and in Great Britain July 27, 1931
10 Claims. (Cl. 250—27)



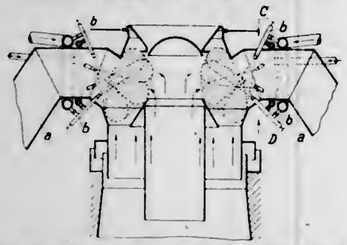
4. In high frequency apparatus employing an electron discharge device having a plurality of electrodes and a source of potential for energizing one of said electrodes, means for preventing the working frequency from reaching said source comprising a two conductor line approximately an odd multiple of a quarter wave length long extending from said source to the electrode adapted to be energized, said line being bridged by a terminating load of small impedance in shunt across the two conductors of said line.

1,941,544
FOLDING AND WRAPPING MACHINE
George J. Egenolf, Indianapolis, Ind., assignor to The J. L. MacDaniel Printing Company, Indianapolis, Ind., a corporation
Original application April 20, 1929, Serial No. 356,684. Divided and this application January 5, 1931. Serial No. 506,782
4 Claims. (Cl. 93—2)



1. A folding and sealing machine including a deck plate having a groove therein, reciprocating article wrapping members operating in said groove, article folding mechanism positioned at one side of said groove, wrapping material supply and cut-off mechanism positioned at the opposite side of said groove, and mechanism for operating said folding mechanism and said supply and cut-off mechanism to deliver a folded article and wrapping material therefor to said wrapping members in timed relation.

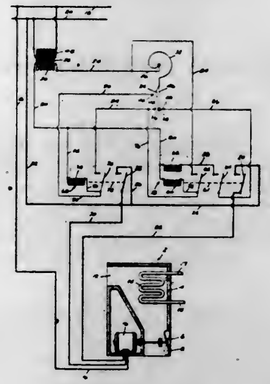
1,941,545
PROCESS FOR REDUCING THE DUST LOSSES FROM SHAFT FURNACES
Georg Eichenberg and Nikolaus Wark, Crefeld-Rheinhafen, Germany
Application March 7, 1930, Serial No. 434,081, and in Germany September 14, 1929
11 Claims. (Cl. 266—31)



2. A process for reducing dust losses in shaft furnaces, which comprises treating the furnace gases in advance of their exit from a space above the charge in the furnace by means of fluid currents covering substantially the entire cross sectional area of the furnace, such currents changing the velocity and direction of the furnace gases in such manner that entrained solid matter carried by the furnace gases is deposited directly upon the charge in the furnace.

9. In combination with a shaft furnace having gas discharge passages leading from the upper portion thereof, spray nozzles extending tangentially inward of the furnace adjacent the discharge passages adapted to discharge a whirling fluid spray covering substantially the entire passage area between the furnace and discharge passages.

1,941,546
STEP CONTROL SYSTEM
Francis Fillo, St. Louis, Mo., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 22, 1931. Serial No. 539,307
27 Claims. (Cl. 236—78)



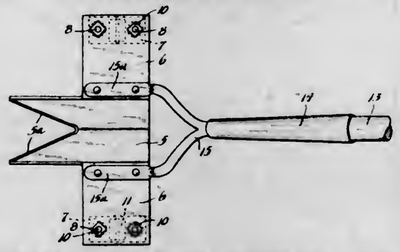
1. In an electrical remote control system, a control member adapted to move back and forth along a predetermined path of travel in response to changes in a physical condition, a pair of controlled members each adapted to normally assume a fixed position of rest, electro-magnetic means for actuating each of said controlled members to a changed position, means associated with said control member for energizing the actuating means for one of said controlled members at one point in its path of travel, means associated with said control member for energizing the actuating means for the other controlled member at another point in its path of travel while maintaining the actuating means for the first said controlled member energized, and means associated with the control member for de-energizing each of said actuating means at a point in its path of travel different from that at which it was energized.

1,941,547
FREE SCALING AND FREE MACHINING STEEL
Herbert James French, Elizabeth, N. J., and John Woodbury Sands, Staten Island, N. Y., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application December 22, 1930
Serial No. 503,982
4 Claims. (Cl. 75—1)

1. A nickel alloy steel containing about 1% to about 7% nickel and the balance comprising substantially all commercial iron and having zirconium sulphide incorporated therein in such amount that the sulphur content thereof lies within a range from about 0.05% to about 0.15%, whereby a free scaling steel is produced which has easily detachable scale with a friable intermediate layer, which forms a greater amount of scale when heated and which requires a substantially lesser amount of power to machine than an untreated low nickel alloy steel.

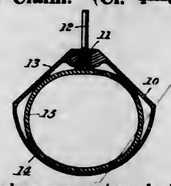


1,941,548
LAWN EDGE TRIMMER
Frank Friedheim, Minneapolis, Minn.
Application September 8, 1932. Serial No. 632,099
3 Claims. (Cl. 97—227)



1. A lawn edge trimmer comprising a cutter of V-shape in transverse cross section and adapted for movement in a direction normal to the plane of said cross section, the forward edges of said cutter being sharpened and extending downwardly, inwardly, and rearwardly from the forwardmost and uppermost corners of said cutter to meet at a point on the lowermost portion of the cutter, a supporting roller revolubly mounted with respect to said cutter and a handle secured to said cutter.

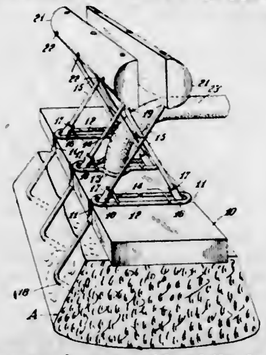
1,941,549
VALVE FOR TOILET TANKS
Paul C. Gannon, Pittsburgh, Pa.
Application March 7, 1931. Serial No. 520,869
1 Claim. (Cl. 4—56)



In a tank valve, an outer, hollow sealing ball having a zone adapted to engage a valve seat, and an inner reinforcing shell, said reinforcing shell being continuous, of the same general shape as the sealing ball, and having contact therewith in a plurality of zones at least one of which substantially coincides with said sealing zone, but spaced therefrom over the remainder of its area.

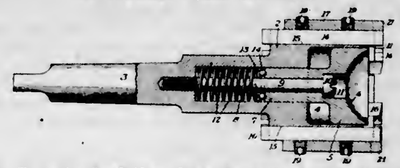
1,941,550
SPONGE HOLDER
James D. Garvey, Chicago, Ill.
Application July 29, 1932. Serial No. 625,672
4 Claims. (Cl. 15—130)

1. A holder of the character described comprising a body member provided with passages arranged in pairs at opposite sides thereof; sponge gripping members pivotally mounted intermediate of their ends in said passages on each side of the body member and disposed upwardly above and toward the opposite side of the body member so that the gripping members



pivotally secured on one side of the body member will cross those pivotally secured on the other side; and a sectional hand grasping member, with each section secured to the upper ends of the gripping members disposed on the same side of the median line of the body member.

1,941,551
STAYBOLT CAP REMOVING TOOL
Gustav H. Gjertsen, St. Paul, Minn., assignor to Flannery Bolt Company, Pittsburgh, Pa., a corporation of Delaware
Application February 27, 1930. Serial No. 431,722
4 Claims. (Cl. 29—105)

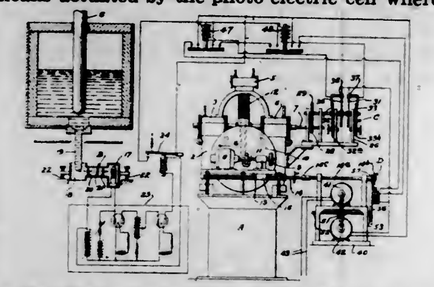


1. In a tool of the class described, a body having a head portion and a shank portion, the head portion of the body having longitudinally extending slots therein, cutter bits received in the slots, and a sleeve surrounding the head portion of the body and secured thereto, said sleeve having cutter bit securing means thereon for retaining the cutter bits in position in the slots in the head portion of the body, said sleeve having a series of fingers at the end thereof projecting beyond the end of the body, said cutter bits also projecting beyond the same end of the body.

1,941,552
APPARATUS FOR AUTOMATICALLY CONTROLLING THE WEIGHT OF GLASS ARTICLES MADE BY THE GOB FEED AUTOMATIC MACHINE PROCESS
Kenneth M. Henry and Burton A. Noble, San Francisco, Calif., assignors, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application June 30, 1931. Serial No. 547,802
15 Claims. (Cl. 49—55)

1. In a glass feeding machine, a container for molten glass, said container having a discharge orifice formed therein, a housing disposed adjacent to the path of gobs discharging from said

orifice, a photoelectric cell in said housing actuated by light rays emitted by the gobs, and means actuated by the photo electric cell where-



by the flow of glass through the discharge orifice is varied to maintain the gobs at a predetermined weight.

1,941,553

APPARATUS FOR ILLUMINATING CLOCK DIALS AND THE LIKE

John W. Hobbs, Chicago, Ill., assignor to George W. Borg Corporation, Chicago, Ill., a corporation of Illinois

Application July 13, 1931. Serial No. 550,421
2 Claims. (Cl. 240—2.1)



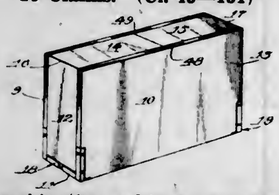
1. Means for illuminating a clock dial or the like, said means comprising a transparent plate supported above the dial, said plate having a downwardly and inwardly inclined beveled and roughened peripheral edge, an artificial light source, and means to limit light from said source relative to said plate to only the peripheral edge of the plate.

1,941,554

DRAWING BOARD AND THE LIKE

Tallmon Ethan Horst, Chicago, Ill.

Application April 26, 1930, Serial No. 447,557
Renewed May 22, 1933
16 Claims. (Cl. 45—131)



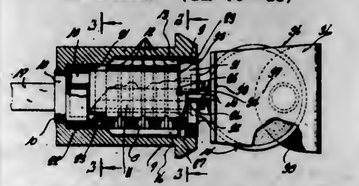
16. In combination, a hinge comprising a link pivotally connected at one end adjacent to a surface of one panel and at the other end adjacent to the corresponding surface of a second panel, a second link pivotally connected adjacent to the other surface of the first mentioned panel opposite the connection of the first mentioned link, and slidably connected adjacent to the other surface of the second mentioned panel opposite to the connection of the first mentioned link on said panel and having sliding movement only with said sliding link moving parallel to said panel, substantially as described.

1,941,555

LOCK

Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware

Application September 8, 1930. Serial No. 480,376
13 Claims. (Cl. 70—46)



1. In a lock structure of the character described including a casing and a key controlled lock cylinder removable from the casing when in a predetermined position, means for preventing movement of the lock cylinder to said predetermined position comprising a spring member carried by the casing, and an abutment on the lock cylinder engageable with the spring member.

1,941,556

PROCESS OF PRODUCING HIGH SILICON AND HIGH MANGANESE STEEL

Abner C. Jones, Lebanon, Pa., assignor to Lebanon Steel Foundry, Lebanon, Pa., a corporation of Pennsylvania

No Drawing. Application November 7, 1930
Serial No. 494,192
12 Claims. (Cl. 75—45)

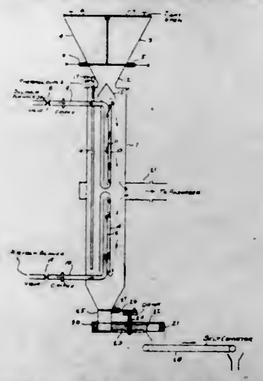
1. The process of producing low manganese steel in which the manganese is less than 3%, which comprises melting steel scrap under oxidizing conditions, adding ore to reduce the carbon content, afterwards introducing silica sand to the surface of the bath, permitting carbon to react with oxide in the steel and the slag, adding more carbon, adding silico-manganese after the boiling has subsided, increasing the temperature, and adding ferro-silicon and more silico-manganese.

1,941,557

METHOD FOR PREPARING CATALYSTS

Johannes L. Koetz, Pittsburgh, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware

Application March 5, 1930. Serial No. 433,477
15 Claims. (Cl. 23—233)



1. A method of treating raw catalytic material containing water of hydration, which comprises

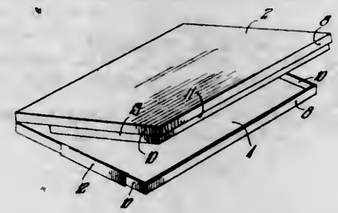
subjecting it to the heat given off by a chemical reaction that is set up within a moving stream of said material.

1,941,558

COMBINED RECEPTACLE AND TRAY

Paul A. Labbe, West Springfield, Mass.

Application February 15, 1933. Serial No. 656,877
5 Claims. (Cl. 273—157)



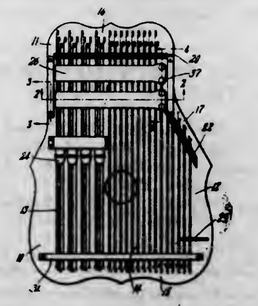
1. A combined tray and receptacle structure comprising, a pair of receptacle members having flat walls with their adjacent sides hinged to and integral with opposite sides of a flat hinge member therebetween, upstanding front and side walls at the marginal edges of said walls, and keepers slidable from the side walls of one of said receptacle members onto the corresponding walls of the other member when the receptacle members are in open relation whereby the members are retained in flat tray forming position, said keepers comprising a body portion to lie adjacent the outer sides of said side walls and bent over portions extending from the marginal edges of said body portion to lie adjacent the inner sides of said side walls and the under side of said flat walls.

1,941,559

STRINGED MUSICAL INSTRUMENT

John H. Large, Caldwell, N. J., assignor, by mesne assignments, to Oscar Schmidt International Corporation, Jersey City, N. J., a corporation of New Jersey

Application September 17, 1931
Serial No. 563,249
6 Claims. (Cl. 84—285)



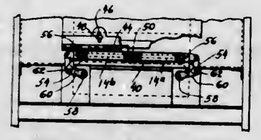
1. A stringed musical instrument comprising a resonator body having a neck portion narrower than the lower portion thereof, said neck portion having substantially parallel side edges, a damper bar extending across said neck, a set of strings extending from the lower end of said body, some of said strings extending to the upper end of said neck and under said bar, others of said strings terminating adjacent to a side of the lower portion of said body.

1,941,560

CEMENT CLINKER COOLING CHAMBER OR THE LIKE

Harry S. Lee, Detroit, Mich.

Application February 13, 1932. Serial No. 592,772
6 Claims. (Cl. 222—5)



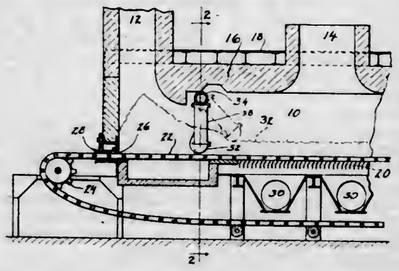
1. In combination with a pressure chamber wall having an opening for the movement of a pair of belt like conveyor elements therethrough and a pair of belt like conveyor elements arranged to travel through said opening, means at the opening underneath said conveyor elements over which they move, said means provided with a part extending upwardly between said conveyor elements and against which they are urged, a shoe arranged adjacent the outer edge of each conveyor element and held yieldingly thereagainst to urge the same toward said part, and means arranged above said conveyor elements at the opening and resting thereupon.

1,941,561

CEMENT CLINKER CHAMBER OR THE LIKE

Harry S. Lee, Detroit, Mich.

Application February 13, 1932. Serial No. 592,773
19 Claims. (Cl. 222—5)



1. The combination in a chamber through which heated material is adapted to be impelled, of valve mechanism suspended for swinging movement within said chamber and comprising a tubular shaft extending through the walls of the chamber, a tubular valve flap removably carried by said shaft and communicating with the interior of the shaft, and a shoe of heat resisting material removably secured to the outer end of said valve flap in direct communication with the interior thereof.

1,941,562

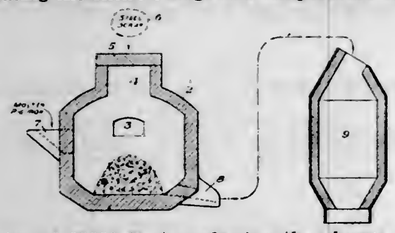
MANUFACTURE OF STEEL

William H. Lewis, Pittsburgh, Pa.

Application February 5, 1932. Serial No. 591,032
2 Claims. (Cl. 75—44)

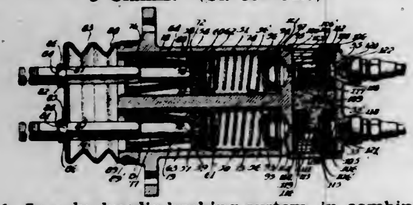
1. In the method of making steel, the steps consisting in melting steel scrap in a regenerative

furnace, adding pig iron to the furnace, superheating the entire charge to a temperature of the



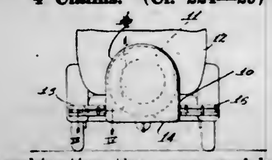
order of 2900° F., transferring the charge to a Bessemer converter, and there Bessemerizing it.

1,941,563
HYDRAULIC BRAKE
Erwin F. Loweke, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application August 2, 1930. Serial No. 472,665
3 Claims. (Cl. 60—54.6)



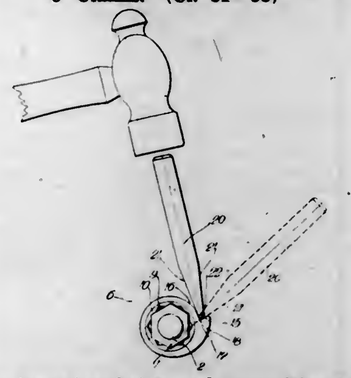
1. In a hydraulic braking system, in combination a plurality of fluid operated brake mechanisms, a master cylinder and a piston therein for producing fluid pressure associated with each of the brake mechanisms, a cylinder and a piston therein common to said brake mechanisms and master cylinders, packing cups having central apertures seated on the opposite faces of said piston, heads on said piston extending through the apertures in said cups, means engageable with said heads for limiting the range of movement of said piston, coil springs interposed between said limiting means and said cups for holding said cups in a manner to prevent leakage of fluid through the apertures therein and for normally holding said heads spaced from said limiting means to permit a predetermined movement of said piston in either direction by a differential in pressure in said brake mechanisms due to variations in adjustment of the brake mechanisms to equalize the pressures therein.

1,941,564
COMBINATION TIRE COVER AND LUGGAGE CARRIER
George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Asbury Park, N. J., a corporation of Delaware
Application June 30, 1931. Serial No. 547,931
4 Claims. (Cl. 224—29)



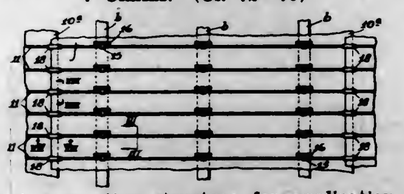
1. A combination tire cover and luggage carrier comprising a shallow one-piece receptacle having an open top and of sufficient depth to receive an entire spare tire and means for selectively supporting said receptacle in upright and horizontal positions according as the receptacle is to serve one or the other of its purposes said means being located above the bottom and at the rear side of the receptacle when the latter is on the tire for pivotally supporting the receptacle for a swinging movement both downwardly and under the tire into a horizontal position in which the receptacle is disposed substantially below and on both sides of said means.

1,941,565
SOCKET WRENCH
Sigmund Mandl, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application March 20, 1933. Serial No. 661,746
3 Claims. (Cl. 81—53)



1. An impact socket wrench comprising a body of metal having a socket for receiving a nut and engaging the sides adjacent the corners thereof, said wrench having an impact shoulder including an impacting surface extending substantially, but not exactly, radially of the socket, the angle of the surface to a true radius being such that the force of impact on the shoulder will have a component radially inward of the shoulder and none radially outward of the shoulder, to prevent a punch from sliding outwardly on the shoulder by the force of an impact, the back of the shoulder merging with the rest of the wrench along a smooth curve providing a reenforcement for the shoulder.

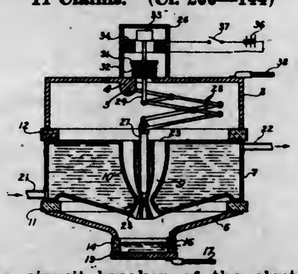
1,941,566
SUPPORTING STRUCTURE FOR USE IN THE PRODUCTION OF FLOORS AND THE LIKE
Herbert E. Marks, Sewickley, and Walter D. Jarvis, Pittsburgh, Pa., assignors, by direct and mesne assignments, to Mary Haines Marks, Sewickley, Pa.
Application February 7, 1931. Serial No. 514,148
7 Claims. (Cl. 72—70)



2. A supporting structure for application to beams or the like, comprising a unitary section

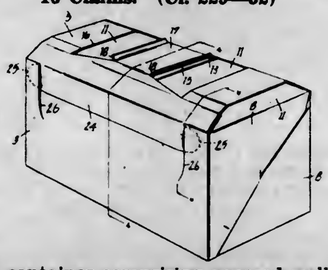
including a base and a reinforcing member secured to said base, and a clip having a hook portion to engage over said reinforcing member and a tongue portion adapted to be passed through said base and bent around one of the beams, whereby said base is secured to said beam.

1,941,567
CIRCUIT BREAKER
Othmar K. Marti, Haddonfield, N. J., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application June 27, 1931. Serial No. 547,222
11 Claims. (Cl. 200—144)



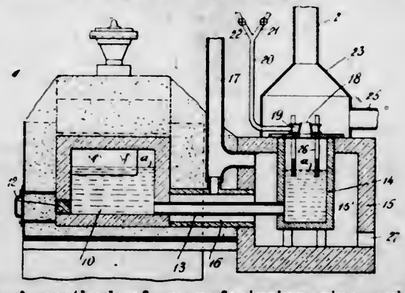
1. In a circuit breaker of the electric valve type, an evacuated casing having a portion thereof formed as an annular chamber for retaining a cooling medium and having an aperture therein forming a restricted passageway therethrough, a cathode electrode of vaporizable material and a movable anode electrode of solid material arranged within said casing and connected into an alternating current circuit to be controlled thereby, and means for moving said anode electrode through said passageway into and out of connection with said cathode electrode to thereby close said circuit and to create a vaporous arc for the flow of current of unidirection between said electrodes, the said chamber being operable to condense vapor created from said cathode electrode upon the establishment of said arc responsive to movement of said anode electrode from connection with said cathode electrode whereby the extinguishment of said arc is facilitated and the opening of said circuit accelerated.

1,941,568
CONTAINER
Charles F. McAleer, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application January 3, 1933. Serial No. 649,823
16 Claims. (Cl. 229—52)



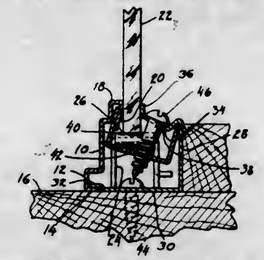
16. A container comprising opposed walls having overlapping cover flaps provided with superimposed grip members, the outer cover flap having a hand opening, the grip members extending across the hand opening, the inner grip member having outwardly directed flanges disposed through the opening in the outer cover flap.

1,941,569
MANUFACTURE OF ZINC OXIDE
Bonner N. McCraven, Bloomfield, N. J., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
Application February 24, 1930. Serial No. 430,839
5 Claims. (Cl. 23—148)



5. A method of manufacturing zinc oxide, which comprises reducing zinciferous material to produce zinc vapor, maintaining by the condensation of said zinc vapor a molten bath of zinc metal in full communication by gravity with a second molten bath of zinc metal from which reduction gases are excluded, volatilizing the zinc in said second bath, and burning the resulting zinc vapor to zinc oxide.

1,941,570
STORE FRONT SASH
Angus N. McDonald, Detroit, Mich., assignor to Detroit Show Case Company, a corporation of Michigan
Application September 25, 1931
Serial No. 565,118
10 Claims. (Cl. 20—56.4)



1. In store front construction in combination with a glass pane, a sash assembly comprising a face plate having a part engaging one face of the pane, a set plate having a part engaging the opposite face of the pane, a channel element carried by the face plate and adjustable therealong and extending underneath the edge of the glass pane and engaging with the set plate, and securing means connecting said channel element to the set plate to hold the set plate and the face plate against opposite faces of the glass pane.

1,941,571
HEAD LAMP SAFETY DEVICE
Louis A. Molten, Rutherford, N. J.
Application March 3, 1932. Serial No. 596,434
16 Claims. (Cl. 240—48.6)

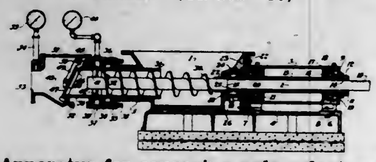
1. A safety device for a headlamp having a lighting bulb including a support member with means for attaching it to the headlamp bulb, a light chute closed along its length except on one

side, carried by said support member, and colored light transmitting devices positioned in tandem over the end of the bulb and the open



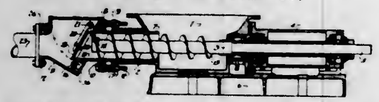
side of the chute, and means for directing some of the light from the bulb down said chute behind said devices.

1,941,572
CONVEYING APPARATUS
Joseph H. Morrow, Hokendauqua, Pa., assignor to Fuller Company, a corporation of Delaware
Application May 20, 1932. Serial No. 612,616
5 Claims. (Cl. 302—50)



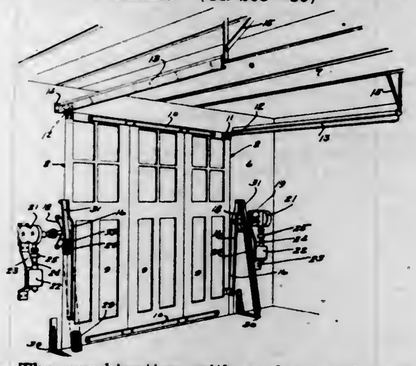
1. Apparatus for conveying pulverulent material through a conduit comprising the combination of a receiving hopper, a cylindrical barrel forming a portion of the conduit and opening into a wall of the hopper, a conveyor screw extending through the hopper and into the barrel, a movable bushing for the barrel, means for admitting compressed air to the barrel secured to the bushing and means for changing the position of the bushing to vary the distance between the air admitting means and the end of the conveyor screw.

1,941,573
CONVEYING SYSTEM
Joseph H. Morrow, Hokendauqua, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware
Application September 20, 1932
Serial No. 633,974
16 Claims. (Cl. 302—50)



1. Apparatus for conveying pulverized materials, comprising the combination of a conduit, a barrel section connected to the conduit, means for advancing material through the barrel section and into and through the conduit, means for injecting compressed air into the conduit to aerate the material to be conveyed, the air being admitted beyond the advancing means to provide a space in the rear of the point of injection in which the materials will be compacted and form a seal resisting the rearward flow of air, and mechanical means in the seal space between the advancing means and the point of air admission for resisting the advance of material and assisting in causing the material to accumulate at sufficient density to form the seal.

1,941,574
DOOR OPERATOR
Fred L. Nichols, Minneapolis, Minn.
Application March 2, 1931. Serial No. 519,301
7 Claims. (Cl. 268—30)



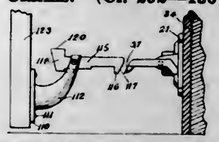
1. The combination with a door and means supporting the upper portion of said door for approximately horizontal travelling pivotal motion, of a motor mounted on a fixed structure, an oscillatory pintle driven from said motor at reduced speed, a lever carried by said pintle and having its free end pivotally connected to the lower portion of the door, said lever having a relatively short upper end, and a door-counterpoising spring attached to the upper end of said lever and anchored to the fixed structure.

1,941,575
TEMPLE HINGE OR MOUNTING FOR SPECTACLES
Rosario J. Page, Fort Kent, Maine
Application September 8, 1931. Serial No. 561,548
3 Claims. (Cl. 88—53)



3. In a device of the kind described, the combination with a parted lens rim, of a complemental pair of elongated end piece sections extended in registry angularly outward and rearward, one each from the parted portions of the rim, the same being recessed in registry upon their inner contiguous faces to form an elongated slideway opening out rearwardly and at the outer end, a pivot screw passed through the inner ends of the assembly, a temple flattened at its inner end and bent complementarily to the marginal contour of the slideway, and a semi-circular hook at the inner extremity of the temple engaging the said pivot screw.

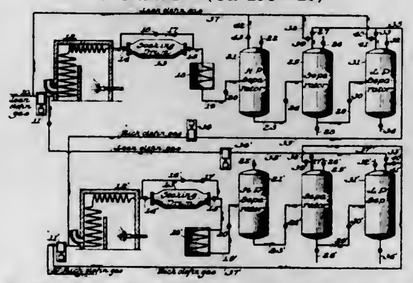
1,941,576
COMBINED DOOR CATCH AND BUFFER
William A. Pond Phipps, Rye, N. Y.
Application February 20, 1932. Serial No. 594,230
7 Claims. (Cl. 292—136)



1. In a combined door catch and buffer assembly a support having a hook element pivotally

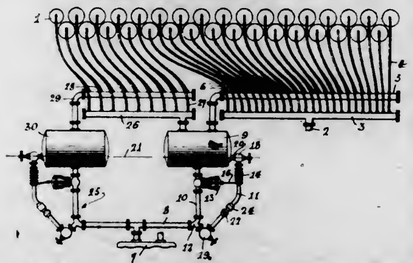
supported in a normally horizontal position thereon, a forward nose on said hook element, said nose being adapted to catch behind a cooperating catch and to abut a cooperating buffer element, and a rearwardly disposed upward projection on said hook element adapted to be depressed by the foot to release said nose, said upward projection being located higher than any other part of said hook element and said support.

1,941,577
HYDROCARBON CONVERSION PROCESS
William B. Plummer, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 25, 1932. Serial No. 630,336
4 Claims. (Cl. 196—10)



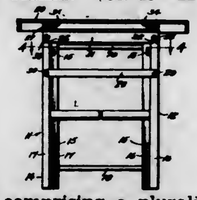
3. In the polymerization of olefinic gases to liquid products, the steps of subjecting rich olefinic gas to polymerization at low temperature and high pressure, subjecting lean olefinic gas to polymerization at high temperature and high pressure, separating a lean olefinic gas from liquid products of the low temperature system and a rich olefinic gas from reaction products of the high temperature system, and admixing said separated lean olefinic gas and said separated rich olefinic gas with the corresponding streams of lean olefinic gas and rich olefinic gas supplied to the high temperature and low temperature systems respectively.

1,941,578
DRAINAGE CONTROL
Wilfrid Pruneau, Almaville, Quebec, Canada
Application October 31, 1932, Serial No. 640,420, and in Canada March 30, 1932
5 Claims. (Cl. 236—56)



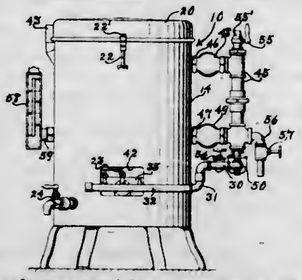
3. A drainage control comprising a tank adapted for connection to the member to be drained, a drain pipe extending from the bottom of said tank, a by-pass extending from said tank into said pipe, a normally open diaphragm valve in said pipe, and a pressure generator at said by-pass adapted to close said valve by flow of steam in said by-pass, said by-pass having a restriction between said generator and said pipe and at the normal water level of said tank.

1,941,579
CONVERTIBLE SCREEN AND TABLE
Edwin Frederick Otto Reller, Evansville, Ind.
Application June 20, 1932. Serial No. 618,326
4 Claims. (Cl. 45—116)



1. A table comprising a plurality of channel frame members hinged together, a plurality of panel members, a table top carriage member secured to one of said channel frame members, means for securing said frame members at an angle to each other to provide table legs, and means on said channel members cooperating with said table top carriage member to hold said panel members on said table top carriage member to provide a table top, said channel frame members being adjustable to any desired angle and being adapted to receive said panels within the channels of the frames to provide an adjustable screen.

1,941,580
COOKER
Caesar Rosellini, Chicago, Ill.
Application January 28, 1933. Serial No. 654,074
11 Claims. (Cl. 53—1)

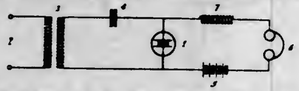


1. A cooker comprising an outer casing and an inner receptacle mounted therein and spaced therefrom to provide a heat chamber between the walls of the two, heating means, including a conduit to conduct fluid to said casing and chamber, whereby to heat said chamber and receptacle, and control means comprising a housing having conduit means connecting its interior with the interior of said receptacle and having means actuated by the heated material from said receptacle whereby to automatically control the supply of fluid passing through said fluid conduit to said chamber.

1,941,581
MEANS TO INDICATE RESONANCE IN A CRYSTAL RESONATOR
Wilhelm Runge, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application April 25, 1931, Serial No. 532,972, and in Germany April 30, 1930
1 Claim. (Cl. 250—39)

An indicating system comprising an input coil, a two electrode piezo-electric crystal, a blocking

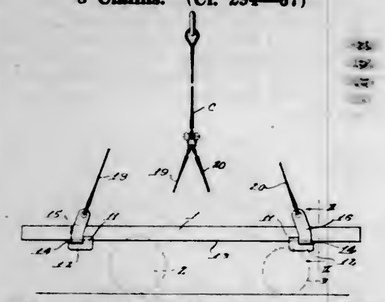
condenser, a connection from one electrode of said crystal to one end of said coil, and connections serially connecting the other electrode of said crystal to the other end of said coil and



said condenser, and, an audio frequency circuit connected in shunt to the electrodes of said piezo-electric crystal, said circuit consisting of the series combination of a source of potential, a pair of ear phones, and a choke coil.

1,941,582
HOIST ATTACHMENT FOR TRUCKS

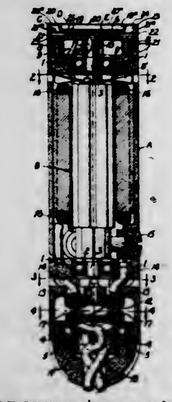
William Schroeder, Chicago, Ill., assignor to Mercury Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 16, 1932
Serial No. 642,902
8 Claims. (Cl. 294—67)



1. The combination with a truck including a frame having a vertical boundary portion extending below the floor of the truck, of lift hook retaining means secured to the truck frame and having portions spaced from and extending along the lower edges of the frame, and lift hook means adapted to be releasably engaged around the lower edges of the frame between said edges and said retaining means.

1,941,583
POWER OPERATED SHAVING APPARATUS

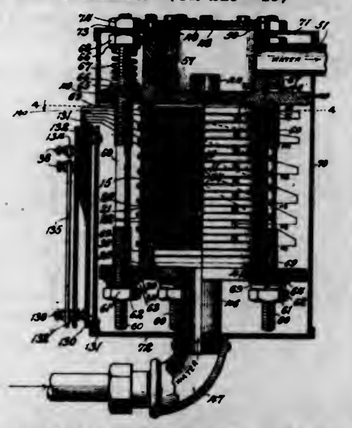
Loyd Scruggs, St. Louis, Mo.
Application May 12, 1932. Serial No. 610,855
16 Claims. (Cl. 30—12)



9. A shaving apparatus provided with a power-operated cutter having a plurality of short blades or cutting edges that move in an arc in a plane substantially parallel to the surface being shaved, and a removable guard positioned between said cutter and the surface being shaved and provided with a rigid, slotted, channeled portion that serves as a raceway for said blades or cutting edges.

1,941,584
ELECTRICAL HEATER

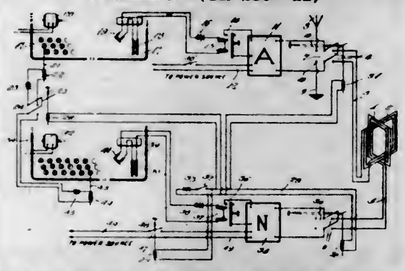
George Norrell Sexton, Richmond, Va.
Application February 20, 1931. Serial No. 517,338
26 Claims. (Cl. 219—40)



1. In an electric heating system, the combination of a plurality of electrodes, means for circulating the substance to be heated between the same, means for insulating the electrodes from the system, means for maintaining the ends of the heater at low or zero potential; and means for passing current between the electrodes at any desired rate within the capacity of the generator and through any desired section or sections of the heater.

1,941,585
RADIO BEACON SYSTEM

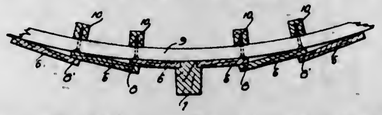
Eugene Sibley, Chevy Chase, Md.
Application February 1, 1930. Serial No. 425,237
9 Claims. (Cl. 250—11)



1. A combined beacon and communication system for aircraft comprising a pair of signal transmission channels, a pair of directive transmitting antennæ, an independent non-directive transmitting antenna, a pair of telegraphic printer transmitting keyboards each having a multiplicity of lettered and numbered transmission control keys and respectively controlling said transmission channels, a control circuit comprising means for simultaneously completing and maintaining in repeat position connections between selected control keys in each of said keyboards and each of said signal transmission channels and means for simultaneously interrupting the aforesaid connections and establishing connection between said independent non-directive transmitting antenna system and one of said signal transmission channels.

1,941,586
SPEED BOAT

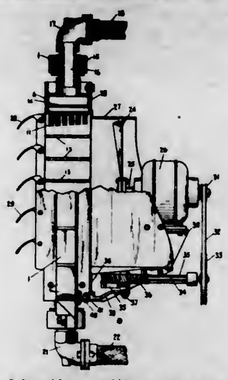
William J. Snadecki, Westover, Va.
Application May 27, 1932. Serial No. 613,867
4 Claims. (Cl. 9—6)



1. A boat shell comprising a body having a rounded bottom, said bottom formed with lap strakes, ribs within and extending transversely of said body and curved and engaging the inner surfaces of said strakes, battens extending lengthwise of said body and engaging the inner surfaces of said ribs, means securing said battens to said ribs, and said battens arranged directly over the laps of said strakes.

1,941,587
INDIRECT HEAT EXCHANGER

R. Harry Stone, Irvington, and Edwin F. Tilley, Dunellen, N. J., assignors to Titeflex Metal Hose Co., a corporation of New Jersey
Application July 26, 1930. Serial No. 471,034
15 Claims. (Cl. 257—137)

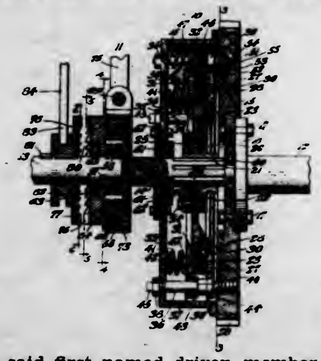


3. The combination with a support, of a unit comprising a heat exchanger having fluid conduits, a motor for turning said unit and a fan for blowing air to said exchanger, said unit being turnably mounted in said support, and fluid conveying connections connected with said exchanger and adapted to supply heat exchanging fluid to said conduits.

1,941,588
AUTOMATIC CLUTCH MECHANISM

Henry H. Vail, Camden, N. J., assignor to Automatic Drive and Transmission Company, Gloucester City, N. J., a corporation of New Jersey
Application August 16, 1928. Serial No. 299,901
6 Claims. (Cl. 192—48)

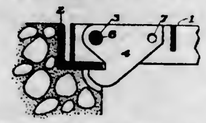
1. A power transmitting mechanism comprising a driving member; a driven member; a normally disengaged automatic clutch mechanism for coupling said members when said driving member reaches a predetermined speed; a second driven member; means establishing a unidirectional coupling between said driven members, and means for exerting a braking influence



upon said first named driven member, whereby said means may be operated to decelerate said first driven member and cause prompt disengagement of said automatic clutch mechanism without effecting a corresponding deceleration of said second driven member.

1,941,589
FASTENING FOR GRATINGS

Charles M. Wellons, Bellevue, Pa.
Application May 3, 1933. Serial No. 669,107
6 Claims. (Cl. 94—30)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a walkway of the character described the combination of a support, a grating supported thereby, a pin secured to the said grating and a latch mounted thereon, the said latch being arranged to rotate about the said pin and to engage the under side of the said support, the said latch also having an extended portion which lies approximately parallel to and immediately below the walking surface of the grating when the latch is in the engaged position and which is accessible for manipulation of the latch.

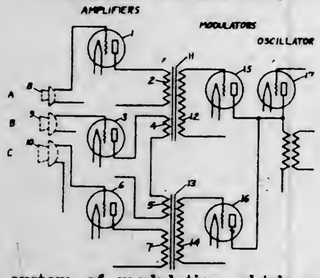
1,941,590
PROJECTILE

Samuel Wiley, Metuchen, N. J.
Application June 13, 1932. Serial No. 616,940
5 Claims. (Cl. 102—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



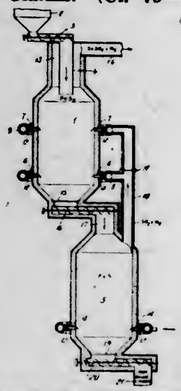
4. A projectile comprising a body, a base plug fixed to the rear end of the body and including a cup-shaped propellent charge container having an expansible side wall to serve as a gas check and a central fuse container, and a cover for the propellent charge container.

1,941,591
SOUND TRANSMISSION CIRCUITS
Lindsay M. Applegate, Portland, Oreg., assignor to John B. Brady, Somerset, Md.
Application March 2, 1927. Serial No. 172,084
3 Claims. (Cl. 179—171)



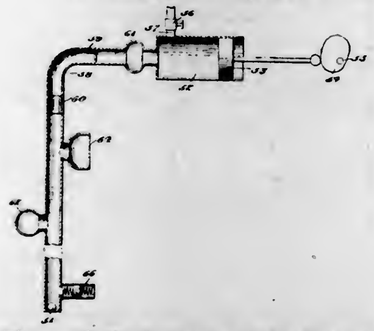
1. A system of modulation which comprises an oscillating circuit, a plurality of modulating circuits operatively associated therewith, said modulating circuits being individually operative for limited ranges of modulating frequencies, said limited ranges of modulating frequencies partially overlapping and together accommodating an extensive range of modulating frequencies, a plurality of amplifying circuits operatively associated with said modulating circuits, said amplifying circuits being individually operative for limited ranges of modulating frequencies, said limited ranges together covering an extensive range of modulating frequencies, the number of modulating circuits being different from the number of amplifying circuits.

1,941,592
ROASTING PYRITES FINES
Raymond F. Bacon, Bronxville, N. Y., and Wilber Judson, Newgulf, Tex.
Application November 21, 1931
Serial No. 576,492
7 Claims. (Cl. 75—60)



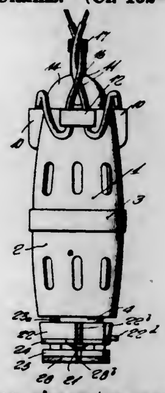
1. In a process for treating pyrites-bearing material in which the material is heated to distill the volatile sulphur of the pyrites and produce a gaseous product containing elemental sulphur vapor and to convert the pyrites substantially to the monosulphide of iron, and the monosulphide of iron is roasted to produce a gaseous product containing sulphur dioxide, the improvement which comprises subjecting the pyrites-bearing material and the monosulphide of iron to the distillation and roasting treatments while in gaseous suspension.

1,941,593
PUMPING
Toribio Bellocq, Buenos Aires, Argentina
Application September 30, 1929
Serial No. 396,297
21 Claims. (Cl. 103—1)



1. The method of varying and adjusting the efficiency of pumping apparatus comprising a pipe carrying liquid an inlet and an outlet therefor and means for causing compression waves to pass through the liquid and thereby cause movement of liquid through the apparatus, comprising associating and communicating a wave filter with the pipe so as to modify the waves in the liquid.

1,941,594
HAIR WAVING APPARATUS
Arthur G. Borden, Washington, D. C., assignor to The Borden Method, Inc., Washington, D. C., a corporation of Delaware
Application December 31, 1931
Serial No. 584,202
14 Claims. (Cl. 132—36)



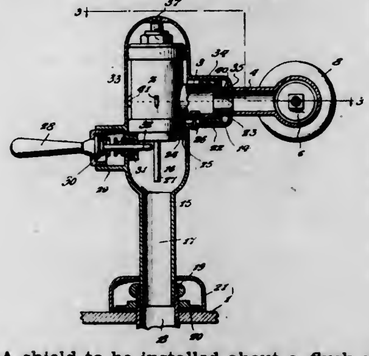
1. Hair waving apparatus comprising a heat treatment chamber, a detachable end closure connectible with the end of said chamber, a mandrel carried by said end closure and projectible longitudinally within said chamber, said end closure being laterally divided into a pair of sections of heat resisting material each having radially disposed slots therein terminating in passages for the hair adjacent the base of said mandrel, said sections being angularly shiftable in position in parallel planes for aligning the radial slots therein for receiving strands of hair through one side of said end closure and shiftable out of alignment for locking the hair in said passages in a position in which the hair may be wrapped on said mandrel for effecting a curling operation.

1,941,595
MUSICAL INSTRUMENT OF THE VIOL AND VIOLIN TYPE
John S. Burdick, Hamburg, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1932. Serial No. 614,424
19 Claims. (Cl. 84—274)



1. In a musical instrument of the violin and viol type, a sound box comprising a belly panel, back panel and ribs, the belly panel consisting of two members the meeting edges of which are flanged inwardly to form a bass bar.

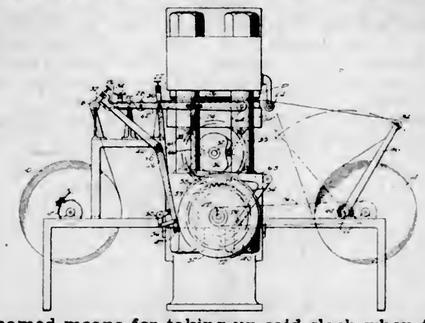
1,941,596
VALVE SHIELD
Thomas R. Burke, Chicago, Ill.
Application January 13, 1932. Serial No. 586,419
6 Claims. (Cl. 137—93)



2. A shield to be installed about a flush valve comprising mating members conforming to the general contour of the valve with their surfaces at the meeting portion flush with each other, the lower member of the shield having a pipe section constituting an outlet for the flush valve.

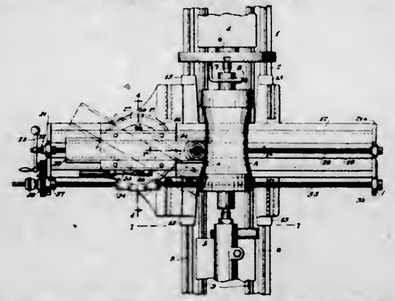
1,941,597
AUTOMATIC WEB MEASURING AND FEEDING DEVICE
John J. Cavagnaro, Ridgewood, N. J.
Application January 23, 1930. Serial No. 422,705
22 Claims. (Cl. 271—2.4)

1. The combination with means for performing an operation on a part of a web while stationary, of web feeding means comprising positively intermittently operated measured slack forming means on one side of the first-named means, and means independent of said measured slack forming means on the other side of said first



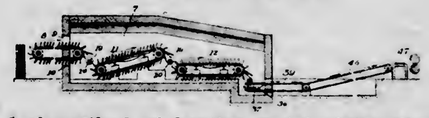
named means for taking up said slack when the web is released.

1,941,598
MACHINE FOR TURNING AND GRINDING
Grover E. Cleveland, Cleveland, Ohio, assignor to The Yoder Company, Cleveland, Ohio, a corporation of Ohio
Application November 6, 1931. Serial No. 573,343
6 Claims. (Cl. 51—33)



1. In a machine of the class described, the combination with a support and tail and head stocks providing centers for a work-piece, of a frame disposed at right angles to the axis of said centers, a main slide on said frame, a rotatable support on said slide, a gear on the periphery of said rotatable support, a shaft on said frame, a gear splined on said shaft and meshing with said first mentioned gear, a base member on said rotatable support, a slide on said base member, a pedestal adjustably mounted on said last mentioned slide, a shaft mounted in said pedestal and carrying a tool, and means for rotating the last mentioned shaft.

1,941,599
CONVEYER TYPE OF PAIR OR PACK FURNACE
Thomas J. Costello, Warren, Ohio
Application February 25, 1930
Serial No. 431,101
5 Claims. (Cl. 263—8)

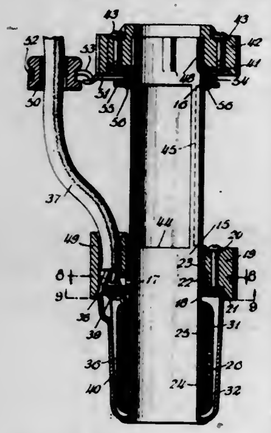


1. A method of heating metal plates, sheet bars, or flat metal pieces comprising passing flat metal pieces or the like through a heating chamber on edge and reversing their positions one or more times during their progress through the chamber.

1,941,600
HEATER FOR PERMANENTLY WAVING HAIR

John William Cox, deceased, late of Newark, N. J., by George A. S. Cooper, administrator, Newark, N. J., assignor to The Nestle-Lemur Company, New York, N. Y., a corporation of Ohio

Application January 25, 1932. Serial No. 588,615
12 Claims. (Cl. 219—24)



7. In a heater for use in permanently waving hair, two concentric sleeves, one disposed within the other, a ring member spaced from one end of the inner sleeve and in which one end of the outer sleeve is mounted for turning movement relative to said inner sleeve, a second ring member carried by the other end of said outer sleeve and constituting a handle by which the latter is turned, said sleeves having openings adapted to be registered and offset by the turning movements of said sleeves, and a heating element carried by the first-named end of said inner sleeve.

1,941,601
SEPARATION OF OIL AND WAX

Seymour W. Ferris, Lansdowne, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application January 10, 1931
Serial No. 508,006
4 Claims. (Cl. 196—19)

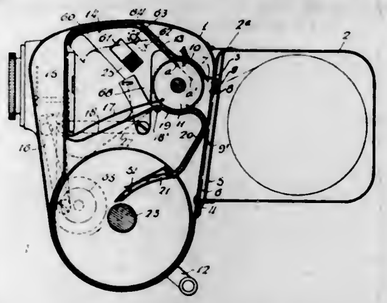
1. The process of separating wax and oil from a mixture containing the same, which comprises extracting the oil-wax mixture with nitrobenzene, and then separating the wax from the oil which remains in the undissolved portion of said mixture after the extraction.

1,941,602
PHOTOGRAPHIC CAMERA

Kurt Frenzel, Berlin, Germany, assignor, by mesne assignments, to Eastman Kodak Company, a corporation of New York

Application July 9, 1926, Serial No. 121,305, and in Germany July 9, 1925
14 Claims. (Cl. 88—17)

1. A motion picture apparatus, comprising a casing provided with a slot for inserting the film, film feeding means, an opening, means for winding the film, means for intermittently moving the film across said opening, a guide way for passing said film from said slot, along said feeding means and opening and to said winding means, the portions of said guide way located at opposite sides of said opening being mounted for adjustment into film releasing positions,

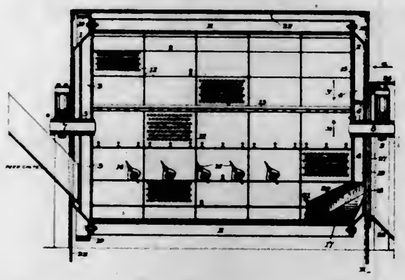


means to set said intermittently moving means into inoperative position, and common operating means for said movable parts of the guide way and the means for setting the intermittently moving means into inoperative position.

1,941,603
COAL BREAKER

Stanley D. Hartshorn, St. Davids, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y., a corporation of New York

Application March 28, 1929. Serial No. 350,703
11 Claims. (Cl. 83—52)



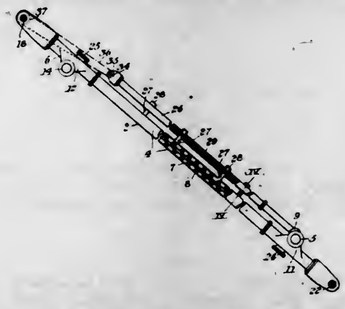
1. The combination with a coal breaker having a rotatable cylinder with apertured walls and end frames for inlet and delivery of material operated upon, of a wall partially closing the delivery end of said cylinder and having a segmental opening extending to the margin of the end frame, a displaceable door for closing said opening, and a plow disposed at such delivery end; said plow being arranged in operative position with relation to said opening for discharging foreign material collecting in said cylinder upon opening said door and rotating the cylinder.

1,941,604
CONVEYER

Leon E. Hirt, Fort Worth, Tex., assignor to Hirt Solvent Process Company, Fort Worth, Tex., a corporation of Delaware

Application May 2, 1929. Serial No. 359,829
7 Claims. (Cl. 198—213)

1. The combination with a material conveyer having supply and discharge means, of a return conveyer disposed thereabove having a plurality of inlet connections therewith intermediate its

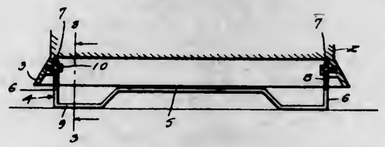


ends, and a discharge connection to the supply means of the first-mentioned conveyer.

1,941,605
STRAP RELEASE FOR CASKET AND BURIAL VAULT LOWERING DEVICES

Willard A. Johnsen, Lancaster, Wis.

Application December 8, 1932. Serial No. 646,311
2 Claims. (Cl. 27—2)

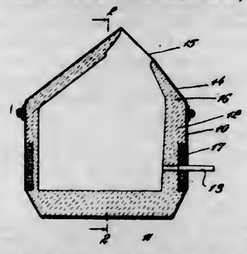


1. The combination with a burial container, of a pair of bar members disposed transversely of the bottom of the structure and having a portion at each end turned at right angles and having an aperture therethrough adjacent its free end, and bolt means passing through the apertures of said turned ends and pivotally securing the same to the bottom of the structure whereby the bar may be swung to a position to extend beyond the bottom of the structure as described.

1,941,606
METALLURGICAL APPARATUS

Charles B. Kuzell, Clarkdale, Ariz., assignor to United Verde Copper Company, Clarkdale, Ariz., a corporation of Delaware

Application November 19, 1929
Serial No. 408,247
13 Claims. (Cl. 266—43)

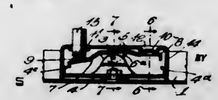


9. A molten bath receptacle having a monolithic lining made from a mixture comprising magnesite and a binder in which about thirteen to twenty percent of the bonded particles are minus 80-mesh, the remaining particles are plus 80-mesh, and the major proportion of the minus 80-mesh particles are minus 200-mesh, the binder being present in the mixture in an amount equal to about 0.5 to 10.0 percent by weight of the mixture.

1,941,607
CIGARETTE EXTINGUISHER AND ASH TRAY

Harry J. Lebherz, Frederick, Md., assignor to The Everedy Company, Frederick, Md., a corporation of Maryland

Application November 25, 1932
Serial No. 644,348
12 Claims. (Cl. 131—51)



1. A smoker's appliance comprising a tray, a cigarette extinguisher mounted on said tray, said extinguisher including an enclosing casing having ports adjacent opposite ends thereof for receiving the stub of a cigarette, and a movable device located within said casing beneath said ports, said movable device being operated by the insertion of one cigarette stub for ejecting a previously inserted cigarette stub from the other of said ports and sealing the enclosing casing to atmosphere.

1,941,608
ROLLING MAGNESIUM ALLOY

Robert D. Lowry and Fred L. Reynolds, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application February 2, 1933
Serial No. 654,880
9 Claims. (Cl. 148—21.3)

1. In a method of producing a ductile rolled product from a magnesium base alloy which has been previously rolled to approximately the final thickness at a temperature above about 600° F., the steps which consist in repeatedly passing said metal between the rolls of a mill at a temperature between 40° and 350° F. so as to produce a relatively small cumulative reduction in thickness, and annealing the rolled metal.

1,941,609
PROCESS FOR DECOMPOSING ORES

George A. Macready, Los Angeles, Calif.

No Drawing. Application July 7, 1931
Serial No. 549,335
7 Claims. (Cl. 23—134)

4. A process for decomposing ores which consists of blowing a charge of ore in mechanical suspension in a current of hot carbon disulphide vapor through a heated passage from which air is excluded to promote chemical action between said ore and vapor and separating the resulting products by gravity and temperature control.

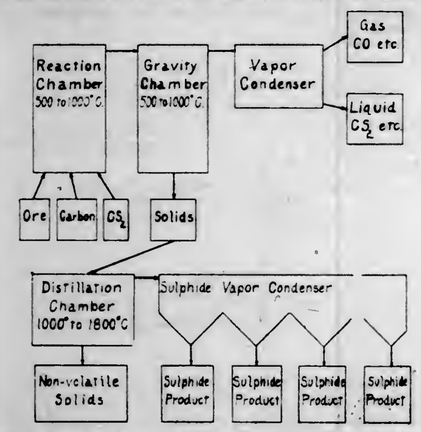
1,941,610
PROCESS FOR DECOMPOSING ORES

George A. Macready, Los Angeles, Calif.

Application December 15, 1931
Serial No. 581,160
6 Claims. (Cl. 23—134)

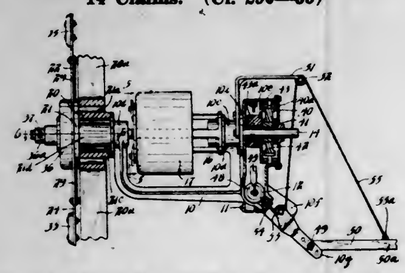
4. A process for decomposing ores which consists of agitating a charge of ore and carbon by

a current of hot carbon disulphide vapor to promote chemical action between said charge and



said vapor and separating the resulting products by gravity and temperature control.

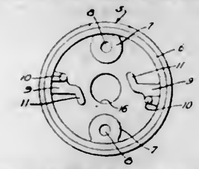
1,941,611
WIND DRIVEN ELECTRIC POWER GENERATOR WITH PUMPING ATTACHMENT
George Manikowske, Minneapolis, Minn., assignor, by mesne assignments, to Ethel Purdon Manikowske, Minneapolis, Minn.
Application November 30, 1927, Serial No. 236,680. Renewed February 21, 1931
14 Claims. (Cl. 290—55)



1. An air motor having in combination, a column having a bearing disposed about a vertical axis, a frame rotatably mounted on said bearing, a substantially horizontal shaft journaled in said frame, a propeller mounted at the end of said shaft, an electric generator disposed at an intermediate portion of said frame having a rotor connected to said shaft at an intermediate portion thereof, and a power transmission mechanism disposed at the other end of said shaft.

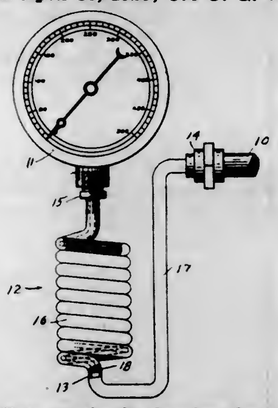
1,941,612
ATTACHMENT PLUG CAP
Augustine H. Massey, Stratford, Conn., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a corporation of New York
Application July 21, 1932. Serial No. 623,803
3 Claims. (Cl. 173—361)

1. In an attachment plug cap, a hollow body of insulating material, said body having a pair of lugs moulded integral therewith at its inner side and provided with openings for the reception of the mounting screws of contact members, and L-shaped lugs formed with said body and each having an arm extending radially with respect to the walls of the body and an arm in spaced



relation to said walls and providing with said walls open sided pockets for the reception of the binding screws of the contact members.

1,941,613
PRESSURE GAUGE STABILIZER
Rob Roy McDonell, Oakland, Calif.
Application September 23, 1932
Serial No. 634,573
2 Claims. (Cl. 137—111)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

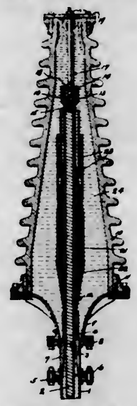


1. A stabilizer or shock absorber for pressure gauges and the like, comprising a length of tubing and an upwardly disposed section of tubing connected together so as to form a trap, a length of wire extending through said length of tubing, the diameter of said wire being somewhat less than the diameter of said tubing.

1,941,614
POTHEAD OR TERMINAL FOR ELECTRIC CABLES
Fred C. Meyer, Paterson, and George E. Moffitt, East Paterson, N. J., assignors to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey
Application December 10, 1932
Serial No. 646,594
2 Claims. (Cl. 173—353)

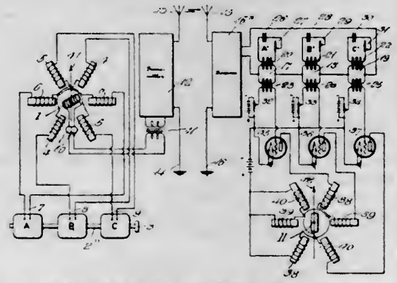
1. A terminal for electric cables of the pressure type, comprising in combination a ring or gland screwed to the cable pipe, a sleeve for receiving the insulated cable conductor and constituting a continuation of the cable pipe, a ring screwed to the lower end of said sleeve and bolted liquid-tight to said first mentioned ring or gland, a ring carried by said sleeve intermediate its ends, a cone bolted to said ring, a tubular insulator supported by said cone and sealed thereto at its lower end, means for sealing the upper end of said insulator, a pressure tube within said insulator for receiving the insulated cable conductor

screwed into the upper end of said sleeve and communicating therewith, a built up insulating structure about said pressure tube, and a metal



shield about the lower end of said insulating structure and contacting with the upper end of said sleeve.

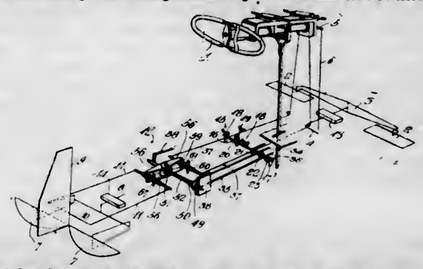
1,941,615
MECHANISM FOR RADIO OPERATED REPEAT MOTION
Carlos B. Mirick, Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a corporation of Virginia
Application August 14, 1930. Serial No. 475,291
8 Claims. (Cl. 250—2)



1. A radio operated repeat motion system comprising a transmitter adapted to emit a predetermined carrier frequency for reception by a distant receiver, circuits at said transmitter for variably modulating said carrier frequency according to the position of a master mechanism at different audio frequencies and intermediate frequencies constituted by combinations of the aforesaid frequencies, and circuits at said receiver adapted to respond to the frequency modulations of said carrier frequency and a repeat motion mechanism controlled by said circuits for simulating the position of said master mechanism at the transmitter.

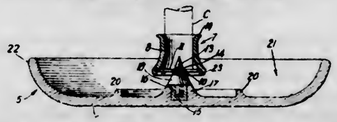
1,941,616
AIRCRAFT CONTROL SYSTEM
Richard P. Mueller, New York, N. Y., assignor to John B. Brady, Somerset, Md.
Application July 5, 1932. Serial No. 620,918
20 Claims. (Cl. 244—29)

1. In a control system for aircraft, an aircraft including ailerons, rudder and elevator planes, a pilot control, and means interconnecting said pilot control with said rudder, ailerons, and elevator planes, said means including a force compensating mechanism automatically increasing or decreasing its compensatory effect in accordance



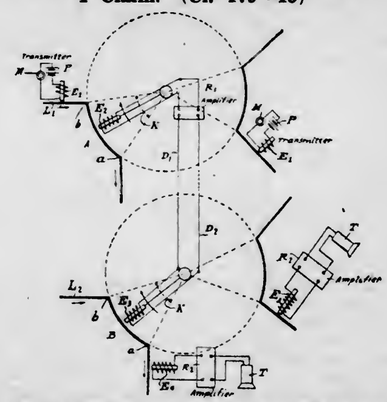
with changes of the control surface pressure resulting from changes of the control surface incidence, for counteracting the effect of surface pressure on said ailerons, elevator planes and rudder with respect to said pilot control.

1,941,617
SMOKER'S UTENSIL
Jacob E. Neahr, Scarsdale, N. Y.
Application July 31, 1931. Serial No. 554,198
14 Claims. (Cl. 131—51)



1. In a cigarette extinguisher, the combination of a tube into which a cigarette may be thrust, a grid in said tube to break the lighted ashes from the cigarette, a receptacle into which the ashes drop from the grid, said tube being supported by said grid, and means to support said grid on said receptacle.

1,941,618
MULTIPLE SYSTEM
Leon Nemirovsky, Paris, France, assignor to Antoine Belloy, Paris, France
Application February 7, 1930, Serial No. 426,662, and in Germany February 11, 1929
1 Claim. (Cl. 179—15)



A device for transmitting simultaneously a plurality of telephonic and telegraphic messages, comprising for each message a pair of synchro-

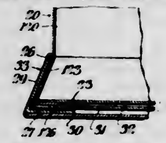
nously moving steel wires arranged one at the sending and the other at the receiving station, said wires at each station being arranged in a circle, the wires at each station being moved through an arc of the circle at said station, means at the sending station for recording electric impulses magnetically on the different wires therein, an electro magnet rotating about the centre of each of said circles and operative to pick up and record electric impulses on the different wires, a transmitting circuit including the two electro magnets and an amplifier, and receivers at the receiving station including means for picking up electric impulses from the different wires.

1,941,619
CONTAINER

John Ernest Page, Sydney, New South Wales, Australia, assignor, by mesne assignments, to The Guardian Trust Company, Cleveland, Ohio, a corporation of Ohio, trustee for Gibson Patent Containers, Ltd., a corporation of New South Wales, Australia

Application December 6, 1930. Serial No. 500,493

11 Claims. (Cl. 229—5.5)



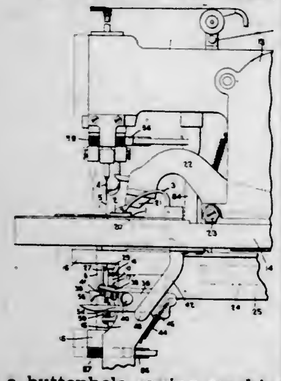
11. A collapsible ice cream container comprising, a tubular member having slits therein to provide an outwardly expansible end portion, a closure member telescoped over said end portion, said closure member having a rim portion tapered inwardly, and means holding said expansible end portion pressed in locking engagement against said tapered portion.

1,941,620
BUTTONHOLE SEWING MACHINE

Joseph Pikul, Troy, N. Y., assignor to The Reece Button Hole Machine Company, Boston, Mass., a corporation of Maine

Application March 26, 1931. Serial No. 525,376

40 Claims. (Cl. 112—252)



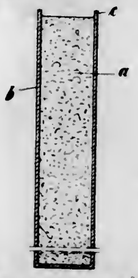
1. In a buttonhole sewing machine, the combination with work-holding means, of stitch-forming mechanism, a throat through which the under thread and stay cord are led to the work, means operative at the end of the sewing on a buttonhole to cut the under thread and stay cord, and means to present at the sewing point for the stitching on the next buttonhole a loose end of a stay cord projecting through the throat, and a loose end of under thread also projecting through the throat but of greater length than the loose end of cord and correctly measured to form the first stitch on the next buttonhole without leaving any projecting end that requires to be subsequently trimmed.

1,941,621
IGNITING STICK

Ferdinand Ringer, Vienna, Austria

Application February 21, 1930, Serial No. 430,382, and in Austria January 16, 1930

40 Claims. (Cl. 52—27)



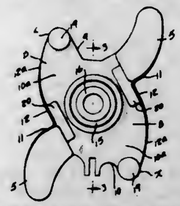
1. An igniting stick ignitible by friction comprising an organic base mass capable of burning at a low rate of combustion and an initial igniting mass uniformly intermixed with and distributed throughout the said base mass, the bulk of such base mass comprising organic condensation and polymerization products of aldehydes which prior to pyrogenous formation of a residue undergo under the action of the heat of the adjacent flame a decomposition into simpler molecules not capable of forming a residue under the action of heat, whereby said substances, when mixed and formed into a stick by themselves burn slowly but completely in the manner of solid alcohol.

1,941,622
AUTOMATIC TRAIN PIPE COUPLING HEAD

Joseph Robinson, New York, N. Y., assignor of one-half to Roy M. Wolvin, Montreal, Quebec, Canada

Original application February 2, 1923, Serial No. 616,592. Divided and this application May 16, 1929, Serial No. 363,507. Renewed March 24, 1933

4 Claims. (Cl. 285—58)



1. An automatic train pipe coupling head comprising a base and two guides rigidly secured thereto one on each side of the base intermediate the length thereof and having oppositely facing guiding surfaces, the edge of the base below one of said guides and above the other of said guides being shaped to form guiding edges for the guides of a mating head, and the base being cut away to a substantial extent above said first named guide and below said second named guide, whereby a substantial portion of the base of one head will face a cut away portion on the base of a mating head when two heads are coupled together.

1,941,623
RECOVERY OF SULPHUR

Ludwig Rosenstein, San Francisco, Calif., assignor to United Verde Copper Company, a corporation of Delaware

No Drawing. Application November 28, 1930 Serial No. 498,753

10 Claims. (Cl. 23—226)

1. The method of producing elemental sulphur which comprises passing a mixture of sulphur dioxide and hydrogen sulphide gases through a space defined by rigid walls, and maintaining liquid films of water on the walls defining the space while the mixture of gases is being passed therethrough.

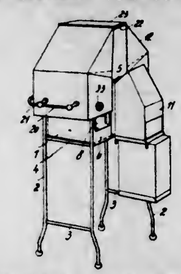
3. The method of producing elemental sulphur which comprises subjecting sulphur dioxide to the action of hydrogen sulphide in the presence of a mineral gel and water in the liquid state.

1,941,624
PHOTOGRAPHIC APPARATUS

Willy Salchow, Berlin-Tempelhof, Germany

Application September 22, 1931, Serial No. 564,363, and in Germany October 17, 1930

8 Claims. (Cl. 88—24)



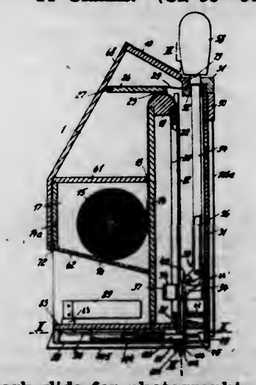
1. A photographic apparatus comprising a camera, a copy holder, and means including a camway with horizontal and vertical reaches and depressions in said horizontal reaches, for fixing said holder in various positions with respect to said camera and a pin on said holder adapted to engage in said depressions.

1,941,625
DARK SLIDE

Willy Salchow, Berlin-Tempelhof, Germany

Application March 3, 1932, Serial No. 596,505, and in Germany November 30, 1928

14 Claims. (Cl. 95—34)



1. A dark slide for photographic apparatus in which a flexible web is employed as the bearer of a sensitive solution comprising a covering plate, means for reciprocating said plate mounted on said plate so as to move with respect thereto, a gripper on said covering plate, and means under the control of said reciprocating means for causing the gripper to engage the web upon the descent, and to release it on the ascent, of said covering plate.

1,941,626
PROCESS OF DECOLORIZING HEAVY SPAR

Maximilian Schiechel, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y., a corporation of New York

No Drawing. Application November 16, 1931, Serial No. 575,463, and in Germany November 25, 1930

11 Claims. (Cl. 23—122)

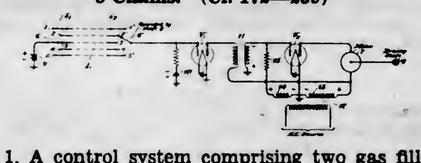
1. Process of decolorizing heavy spar which comprises heating the heavy spar in admixture with a relatively small amount of an added oxygen containing compound of the group comprising the oxides and mineral acid salts of potassium, sodium, aluminum, magnesium, zinc, and zirconium to a temperature of at least about 900° C. but below the fusion temperature.

1,941,627
REMOTE CONTROL SYSTEM

Fred W. Schramm, East Orange, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York

Application May 5, 1932. Serial No. 609,545

5 Claims. (Cl. 172—239)



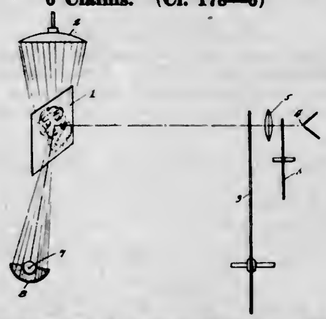
1. A control system comprising two gas filled discharge tubes connected in tandem, a device to be controlled associated with the output circuit of the second tube, switching means connected to the input of the first tube for rendering said tube operative or inoperative, means for so interconnecting said tubes that the operation of said first tube will render the second tube inoperative and the deenergization of the first tube will render the second tube operative, and means operated by said controlled device for controlling said switching means.

1,941,628
SCANNING METHOD AND APPARATUS

Donald William Short, Palisades Park, N. J., assignor to Jenkins Television Corporation, Jersey City, N. J., a corporation of Delaware

Application November 4, 1930. Serial No. 493,279

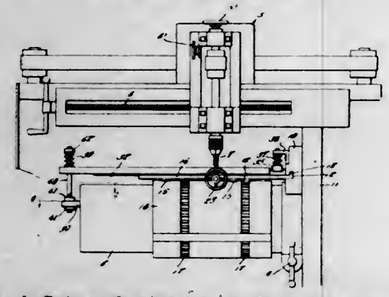
6 Claims. (Cl. 178—6)



1. The method of scanning which comprises flooding a subject or object with light of a selected

color, moving a scanning spot over the subject or object while it is flood lighted, and selecting the color of said spot in accordance with the average normal coloring of the said flood light to control the shadow effects desired in reproduction.

1,941,629
ATTACHMENT FOR ROUTING MACHINES
Spencer W. Small, Missoula, Mont.
Application January 6, 1931. Serial No. 507,014
5 Claims. (Cl. 90—11)



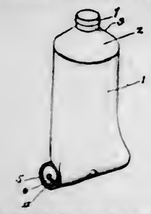
1. A flat work attachment for rotary routing machines comprising a cylindrical shell for circumferential disposition around the usual routing cylinder, a ring gear on the shell, a work supporting bed plate provided with a rack for engagement with the ring gear on the shell, guide means for the said bed plate.

1,941,630
GAME APPARATUS
Ramsey Smith, Oakridge, Roatan, Honduras
Application May 27, 1932. Serial No. 613,962
3 Claims. (Cl. 273—127)



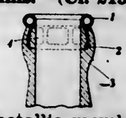
1. In a game apparatus, a support including a board, a transverse support shaft arranged near the forward end of the board and above the same, target elements pivoted between their ends upon the support shaft and having their upper ends heavier than their lower ends, a transverse stop shaft disposed near the support shaft but spaced from the same so that the upper ends of the target elements rest upon the stop shaft, and a resetting device arranged near the support shaft to engage with the lower portions of the target elements.

1,941,631
COLLAPSIBLE TUBE
Eli Socoloff and Jack J. Kaufman, Atlanta, Ga.
Application July 9, 1931. Serial No. 549,752
13 Claims. (Cl. 221—60)



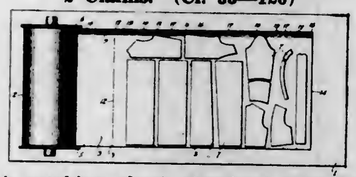
1. A collapsible tube having as a permanent part thereof a roll attached to and upon which the bottom portion of the tube is coiled, and means carried by the roll for permanently maintaining the bottom portion of the tube rolled during the rolling of the latter and when in rolled position.

1,941,632
BOTTLE AND LIKE VESSEL
Eric Fleming Staniland, Olton, England
Application October 18, 1932, Serial No. 638,423, and in Great Britain October 28, 1931
6 Claims. (Cl. 215—31)



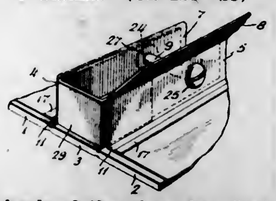
1. A bottle, a metallic member secured to the upper end of the neck of the bottle, said member including a portion wholly above the upper end of the neck to provide a sealing cap receiving bead.

1,941,633
MARKING PAPER
Samuel Steinberg, New York, N. Y.
Application February 18, 1931
Serial No. 516,734
2 Claims. (Cl. 33—128)



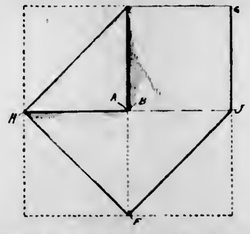
1. A marking sheet structure comprising a rectangular sheet of paper, having graduations on one longitudinal edge with the marks thereon equally spaced, a plurality of controlling lines arranged adjacent and parallel with the edge carrying said graduations, means forming auxiliary graduations on the opposite edge of said upper sheet, there being an auxiliary graduation on said opposite edge for each of the first mentioned graduations, said auxiliary graduations being in line with the first mentioned graduations.

1,941,634
LOOSE LEAF BOOK
Augustus Steinthal, New York, N. Y.
Application July 15, 1933. Serial No. 680,617
8 Claims. (Cl. 129—23)



1. In a book of the class described, a cover, attaching means within the cover and comprising members spaced apart to receive between them the detachable leaves, one of said members being provided with a folding flap or wing adapted to be folded inwardly against the inner face thereof and the other said member being likewise provided with a folding flap or wing adapted to be folded outwardly toward the outer face thereof, tie or holding means on which the leaves are mounted, said means being mounted between the first mentioned flap or wing and the second mentioned member.

1,941,635
SANITARY AND ANTISEPTIC SPUTUM CUP
Mary Wood St. John, Mount Vernon, N. Y., assignor to Roy Irving Barnett, Lynbrook, Long Island, N. Y.
Application January 23, 1933. Serial No. 653,089
1 Claim. (Cl. 4—258)



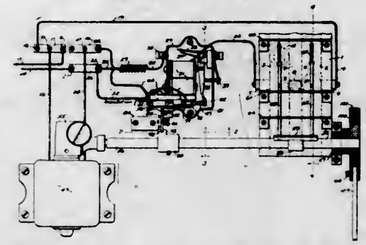
An interlocking sequence of triangularly shaped sanitary and antiseptic sputum cups, consisting of a number of square sheets of absorbent and antiseptic paper, folded with reference to each other, so as to first expose one pocket and one flap—and so folded as to also form a continuous interlocking first sequence of such sputum cups and flaps, which are followed by, and are interlocked with a second sequence or nest of similar number of sputum cups and flaps, all of which sputum cups and flaps are so folded and related to each other, that on using one cup, and then closely covering the mouth of the used cup by closely turning the exposed flap over said opening and into the aforesaid first exposed cup, another cup and flap are thereby exposed and ready for use; and in the center of said sequence of sputum pockets and flaps, and between the aforesaid two sequences of sputum cups and flaps, there are found one exposed flap and two exposed cups, between which cups and uniting them, are an inward turned right flap which has been covered by an inward turned left flap, to which it is mucilaged, and which, when so bound together, served to bind together the said two sequences of sputum cups and flaps into one continuous interlocking sequence of said sputum cups and flaps, substantially as herein described.

1,941,636
RADIOANTENNA
John Stone Stone, San Diego, Calif., assignor to American Telephone and Telegraph Company, a corporation of New York
Application April 12, 1930. Serial No. 443,831
5 Claims. (Cl. 250—11)



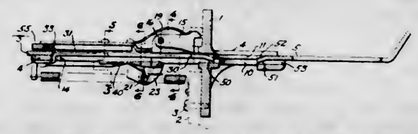
3. In a radio signaling system, a horizontal oscillator and an inclined conductive plane under it sloping downwardly toward the direction of selective transmission, the angle of slope being adjusted to make the directly radiated beam and the earth reflected beam and the beam from the inclined plane all combine to give a resultant narrow beam inclined to the earth's surface.

1,941,637
COIN CHUTE
Walter A. Tratsch, Chicago, Ill.
Application December 23, 1931
Serial No. 582,852
8 Claims. (Cl. 194—7)



1. In a device of the character described the combination of a coin chute and a device therein for intercepting a coin to initiate the actuation of a movable member; an ejector to release the intercepted coin to terminate the actuation of the movable member; and rotary means for actuating the ejector, said means mounted in the median plane of said chute.

1,941,638
COIN SLIDE
Walter A. Tratsch, Chicago, Ill.
Application December 5, 1932. Serial No. 645,789
19 Claims. (Cl. 194—97)



1. In a device of the character described the combination of a slide provided with an aperture to receive a coin; a guide for said slide; a pocket formed in said guide to receive the coin from said slide, said pocket having a wall movable to prevent a clogging of coins therein; and a coin discharge from said pocket.

1,941,639
WAXLIKE SUBSTANCES AND METHOD OF PREPARING THE SAME
Donald K. Tressler and Carlisle Schade, Pittsburgh, Pa., assignors to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application August 14, 1929
Serial No. 385,979
18 Claims. (Cl. 260—134)

1. The method of preparing hydroxy ketones, which comprises treating unsaturated ketones containing at least 18 carbon atoms with concentrated sulfuric acid to convert the unsaturated ketones into ethereal sulfates, and hydrolyzing the ethereal sulfates to form hydroxy ketones.

1,941,640
METHOD OF PREPARING ALIPHATIC KETONES
Donald K. Tressler, Gloucester, Mass., assignor to The Mathieson Alkali Works, Incorporated, New York, N. Y., a corporation of Virginia
No Drawing. Application August 10, 1931
Serial No. 556,322
9 Claims. (Cl. 260—134)

1. The method of producing ketones from higher unsaturated fatty acids which comprises heating the higher unsaturated fatty acids from

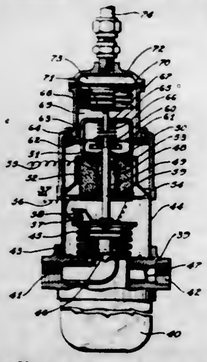
natural fats to a high temperature in the presence of a ketone-forming catalyst while bringing a non-oxidizing gas into contact with the reaction mixture to maintain it under non-oxidizing conditions from before the time the reaction commences until after the reaction is complete.

1,941,641
CLOSURE FASTENER
Antoine Turcotte, Mexico, Maine
Application September 5, 1933. Serial No. 688,210
1 Claim. (Cl. 292—87)



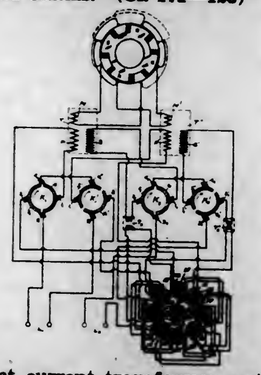
A latch device of the class described comprising a substantially U-shaped member formed of a single piece of spring wire and having an eye formed at its bight part for receiving a fastening member, with the extremity of one limb bent outwardly to engage a keeper recess, and a box-like member receiving the ends of the U-shaped member and having a hole in one wall thereof through which the bent end of the U-shaped member passes, the opposite wall of said box like member forming a bearing for the other limb of the U-shaped member, whereby the ends of the limbs of the U-shaped member are confined in said box like member.

1,941,642
FUEL FEEDING SYSTEM
Jesse G. Vincent, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application March 17, 1928. Serial No. 262,504
6 Claims. (Cl. 123—139)



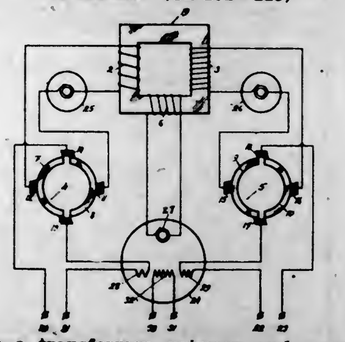
1. A fuel feeding system for an internal combustion engine comprising a carburetor, a supercharger connected with the carburetor, a pump connected therewith having a pumping bellows, a spring for actuating the pump on the exhaust stroke of the bellows, an electrical means for actuating the pump on the intake stroke of the pumping bellows, a pressure responsive means adapted to positively engage said electrical means and coacting with the spring and connected to the air intake of the carburetor for stepping up the pressure on the exhaust stroke of the pump to an amount equal to the increased pressure in the carburetor produced by the supercharger.

1,941,643
DIRECT CURRENT TRANSFORMER SYSTEM
Baltzar Carl von Platen, Stockholm, Sweden
Application July 22, 1931, Serial No. 552,338, and in Sweden July 23, 1930
24 Claims. (Cl. 171—123)



1. A direct current transformer system comprising a plurality of transformers having primary and secondary windings and magnetizing windings in induced relationship, a direct current source, a reversing means associated with each of said primaries, means connecting said primaries, through said reversing means, in series to said direct current source, said reversing means being displaced in phase whereby the currents in said primaries are similarly displaced in phase, means supplying to each of said magnetizing windings a current synchronous with and in phase with the current in the corresponding primary, reversing means synchronous with said first reversing means associated with each of said secondaries and means connecting said secondaries, through said second reversing means, in series to form a main secondary direct current line.

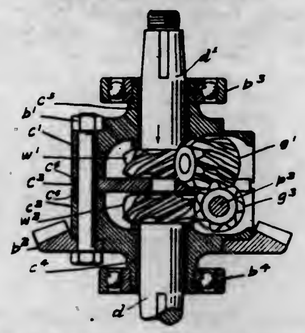
1,941,644
TRANSFORMER
Baltzar Carl von Platen, Stockholm, Sweden
Application September 19, 1931, Serial No. 563,740, and in Sweden September 22, 1930
13 Claims. (Cl. 171—119)



1. In a transformer, primary and secondary windings, a magnetizing winding in induced relationship thereto and means energizing said magnetizing winding, said means being controlled in accordance with the difference between the ampere turns of said primary and secondary windings.

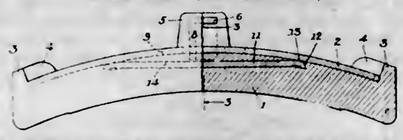
CARNEGIE LIBRARY OF ATLANTA

1,941,645
DIFFERENTIAL GEARING FOR MOTOR VEHICLES
Maurice Walter, New York, N. Y., assignor to Walter Motor Truck Company, New York, N. Y., a corporation of New York
Application September 22, 1932
Serial No. 634,295
6 Claims. (Cl. 74—99)



1. In a differential gearing, a rotatable housing, two driven worms mounted therein, and driving connections between the housing and the worms, said connections including two helical gears each with continuous teeth, each of said teeth having two concave contact surfaces, means to support the helical gears in the housing in mesh with each other and, severally, with the respective worms, and with the axes of the helical gears one in advance of the other about the axis of the driven worms.

1,941,646
BRAKE SHOE
Wilbur H. Winters, Larchmont, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a corporation of Delaware
Application February 20, 1933. Serial No. 657,554
7 Claims. (Cl. 188—258)



1. A brake shoe comprising a body, a back embedded in the body, said back being bent longitudinally in an arc, and a reenforce secured at its ends to the inner concave side of the back and providing a truss at the central portion of the back.

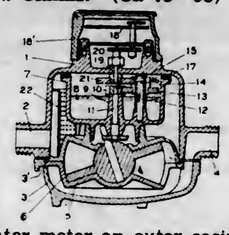
1,941,647
PROCESS FOR THE MANUFACTURE OF ETHER DERIVATIVES OF 1-BENZYL-3-METHYL-ISOQUINOLINE
Otto Wolfes, Darmstadt, Germany
No Drawing. Application July 19, 1930, Serial No. 469,262, and in Germany August 24, 1929
9 Claims. (Cl. 260—25)

2. Process for the production of a 1-benzyl-3-methyl-6,7-dialkoxy-isoquinoline consisting in condensing a phenylacetic acid with 1-(3',4'-dialkoxyphenyl)-2-amino-propane, treating the amide thus obtained with acid condensing agents at a temperature of about 60–150° C.; separating the crystalline hydrochlorides of the bases thus obtained; liberating the free bases from the hydrochlorides by the addition of alkali; and heating the bases with palladium black to about 160–220° C. for the purpose of dehydrogenation.

1,941,648
FERROUS ALLOY
Percy A. E. Armstrong, New York, N. Y.
No Drawing. Application April 18, 1928
Serial No. 271,105
9 Claims. (Cl. 75—1)

1. A ferrous alloy characterized by its malleability and machinability and resistance to hot oxidation in which silicon is present as a result of melting operations but the silicon does not exceed about 1% and the sum of the silicon and any manganese present is substantially below 3% which comprises chromium between about 5% and 25%, nickel between 5% and 35%, carbon not over 1.5% and under 1% for nickel not over 10% and aluminum between about .3% and 4.5% but in excess of the carbon the balance being substantially all iron.

1,941,649
WATER METER
George B. Bassett, Buffalo, N. Y.
Application March 2, 1931. Serial No. 519,657
2 Claims. (Cl. 73—98)

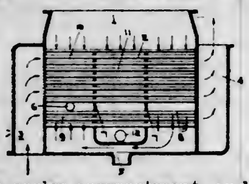


2. In a water meter an outer casing comprising a lower section and a dome shaped separable upper section; a gasket between said two casing sections; a measuring chamber enclosed by and removable from said outer casing; a cup shaped submerged gear box containing lubricating oil, having an opening in its top, and securely mounted on said measuring chamber; a driving pinion shaft extending up through the bottom of said gear box to transmit motion from said measuring chamber; a pillar enclosing said shaft and extending up into said gear box above the normal level of the oil in said gear box before installation; a gasket contacting the top outer edge of said gear box and the upper inner surface of said dome shaped outer casing section at a point substantially above the gasket between said two casing sections; a rigid post projecting upward within said gear box and having a free upper end; and an intermediate pinion and gear mounted on said post, supported by said end, and operatively connected to said driving shaft; substantially as and for the purpose described.

1,941,650
SURFACE CONDENSER
Karl Baumann, Urmston, England, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application September 30, 1930, Serial No. 485,352, and in Great Britain October 16, 1929
8 Claims. (Cl. 257—43)

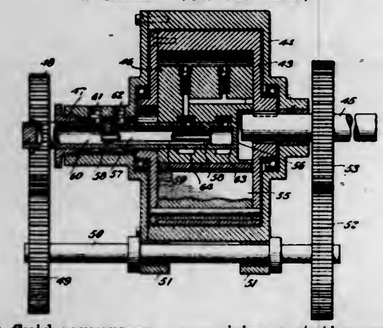
3. A surface condenser comprising a condensing space and a tube nest within the space, the space being divided into compartments including a relatively cool and a relatively warm compartment, each compartment including an inlet and

an outlet and a cooler compartment including a second inlet, the outlet of the warmer compartment being in communication with the second



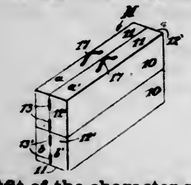
inlet of the cooler compartment, and the outlet of the cooler compartment being disposed intermediate the inlets thereof and separated from such inlets by different portions of the tube space.

1,941,651
FLUID COMPRESSOR
John E. Behlmer, Dubuque, Iowa
Application September 8, 1931. Serial No. 561,737
1 Claim. (Cl. 230—140)



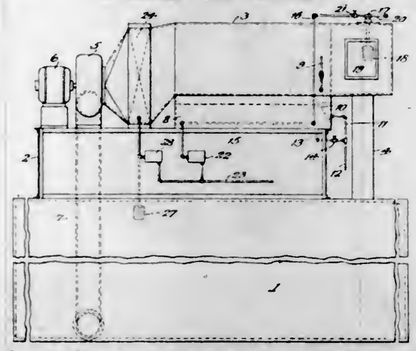
A fluid compressor comprising a stationary cylindrical body, a rotating cylinder within said body, a power shaft journaled in the body at one side thereof and fixed to the cylinder, hubs formed on the cylinder and journaled in the body, one of said hubs having an open center, a rotor within the cylinder and eccentrically movable therein and having on opposite sides of its center valved intake and exhaust ways leading to and from said cylinder, a combined fluid inlet and exhaust pipe fitted in the body and carried through the centrally open hub into the rotor for communication with the intake and exhaust ways, vanes hinged in the cylinder, and roll-like oscillating rockers journaled concentrically of the rotor and slidably receiving the vanes and located between the intake and exhaust ways.

1,941,652
CONVERTIBLE EXCURSION OUTFIT
Peter Bellavia, Garwood, N. J.
Application March 31, 1930. Serial No. 440,505
2 Claims. (Cl. 190—12)



1. In an outfit of the character set forth, a case separable into sections, each of which comprises a plurality of hinge-connected box-like structures adapted to be put in lengthwise relation to constitute a bench unit, legs associated with the box-like structures and movable to a position to support the structures as bench units, and means comprising auxiliary benches for connecting the box-like structures of one bench unit with those of the next bench unit.

1,941,653
PROOFING DOUGH
Harry Bentz, Montclair, N. J.
Application January 21, 1933. Serial No. 652,787
1 Claim. (Cl. 261—15)



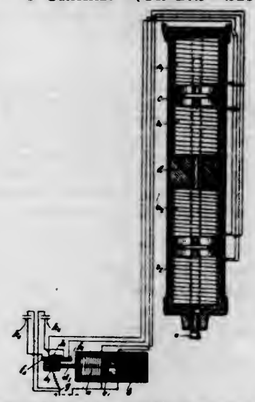
A proofing box comprising a cabinet, an air duct mounted on the top of the cabinet and communicating at the inlet end with the cabinet adjacent the top thereof and communicating at the outlet end with the cabinet adjacent the bottom of the cabinet, means within the air duct for causing air to pass therethrough from the inlet to the outlet, an open water container in the air duct, means for introducing water into the container and maintaining the water therein at a predetermined level, a heater within the water container for heating the water to drive off a vapor, an air heater within the air duct for heating the air passing therethrough, said air heater being towards the outlet end of the duct relative to the water container, a thermostatic control element at the inlet end of the duct for regulating the heat supplied to the water, and a thermostatic control element within the proofing box adjacent the top thereof for regulating the heat transferred from the air heater to the air passing through the duct.

1,941,654
SHOE LACE CLASP
Rudolf Bertsch, Rottweil-on-the-Neckar, Germany
Application August 4, 1931, Serial No. 555,118, and in Germany July 4, 1931
4 Claims. (Cl. 24—121)



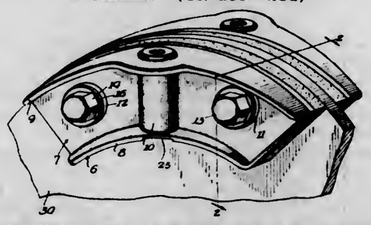
1. A clamp particularly for the upper edge of a shoe to secure the bows and ends of shoe laces within the shoe, comprising a plate having a clip thereon, a wire loop secured on the plate and having its opening directed downwardly when the clamp is on the shoe, and a resilient wire tongue secured on the plate and adapted to exert a pressure toward the wire loop to hold and secure the ends of the shoe between the wire loop and the tongue and the clip being adapted to hold the clamp on the edge of the shoe with the clip on the outside and the plate, loop and tongue on the inside to thereby hold the ends of the shoe lace within the shoe.

1,941,655
ELECTROMAGNETIC HAMMER
Gustav Mårten Justinus Blomqvist and Frans Oscar Johansson Kinley, Stockholm, Sweden
Application January 18, 1929, Serial No. 333,316, and in Sweden September 23, 1926
9 Claims. (Cl. 172—240)



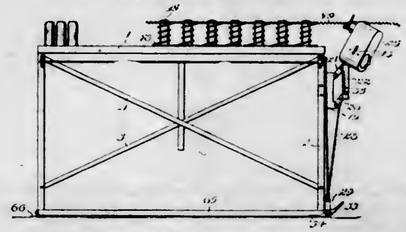
1. A hammer-reciprocating motor system, comprising a hammer-reciprocating armature, two hammer-electromagnets for the alternate attraction of said hammer armature in opposite directions, two separate electric current paths for the alternate energization of said hammer-electromagnets, a remote two-way switch, a switch reciprocating armature, two switch actuating coils for the alternate attraction of said switch armature in opposite directions, a source of current connected to a common contact of the two-way switch and to common terminals of the switch actuating coils, and two separate series circuits from the other terminals of these coils to the branch contacts of the two-way switch, each circuit permanently including one of the hammer current paths.

1,941,656
FRICTION BRAKE
William A. Blume, Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y., a corporation of New York
Application June 28, 1930. Serial No. 464,635
5 Claims. (Cl. 188—234)



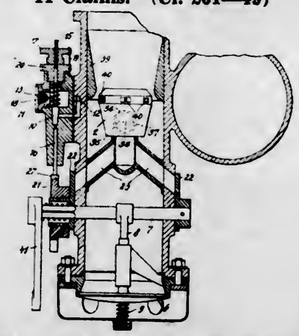
1. A slipper for a friction brake embodying a segmental shoe having a flat face, a composition friction material having a reenforce embedded therein and providing a segmental block complementary to the shoe, and means for detachably connecting said block on said flat face, said reenforce including side and end rails, cross bars extending between said side rails, and a connecting bar extending between said cross bars and terminating in spaced relation with said end rails.

1,941,657
SPRING MECHANISM
Edward L. Bronstien, St. Paul, Minn.
Application May 8, 1931. Serial No. 535,925
6 Claims. (Cl. 140—3)



1. A spring assembling mechanism, comprising aligned spring positioning means, a feed device for a spiral connecting wire, said feed device comprising a guide member positioned to direct a spiral connecting wire supported therein toward said spring positioning means, a rotatable spindle adapted to be inserted interiorly of said spiral and an oppositely rotatable member mounted adjacent said spindle and adapted to grip the wire of said spiral between said spindle and said rotatable member.

1,941,658
CARBURETOR
Max Bucherer, Berlin-Reinickendorf-West, Germany
Application September 11, 1929, Serial No. 391,928, and in Germany July 27, 1928
11 Claims. (Cl. 261—49)

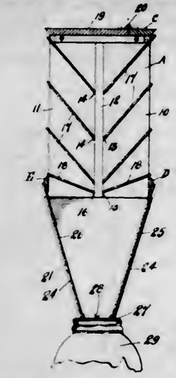


1. A carburetor comprising a casing, a main throttle adapted to admit primary air to said casing, a shaft in said casing, a stem adapted to be displaced in said casing, means operatively connecting said shaft and said stem, an auxiliary throttle on said stem, and means on said stem for operating said main throttle.

1,941,659
INSECT TRAP
Stanton B. Coleman, Rutledge, Pa.
Application April 25, 1932. Serial No. 607,279
2 Claims. (Cl. 43—122)

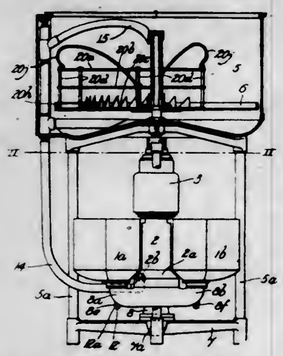
1. In an insect trap comprising a funnel and receptacle end members having grooves formed

therein, said grooves being downwardly inclined toward convergence, and transparent plane



plates seated in the grooves and stopping short of convergence forming a passage directed toward the funnel.

1,941,660
DISH AND LIKE WASHING MACHINE
Carteret Fitzgerald Collins, Tunbridge Wells, England
Application September 9, 1931, Serial No. 561,985, and in Great Britain June 5, 1931
2 Claims. (Cl. 141—9)



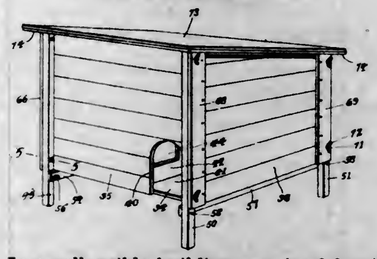
1. A dish or like washing machine including a washing chamber, two independent compartments arranged below the chamber, said compartments including a casing of U-form in plan, an upright partition dividing the casing into independent compartments, a vertical sleeve casing arranged in the opening of the U-form casing, a drive shaft in said sleeve casing, a pump at the lower end of the casing and having its outlet communicating with the washing chamber, a motor at the opposite end of the casing, said motor operating the pump through the drive shaft, a valve body in open communication with the inlet side of the pump, tank conduits leading from the respective tanks to the valve body, a conduit leading from the sleeve casing to the valve body a valve plug operative in the body and formed with openings and a passage to establish communication between the inlet side of the pump and either of the tank conduits, said openings and passage also establishing communication with the sleeve casing above the pump to avoid undue rise of the level of fluid in the sleeve casing.

1,941,661
ELECTRON DISCHARGE DEVICE
Henry L. Crowley, East Orange, N. J., assignor to Henry L. Crowley & Co. Inc., East Orange, N. J., a corporation of New Jersey
Application September 14, 1929
Serial No. 392,538
3 Claims. (Cl. 250—27.5)



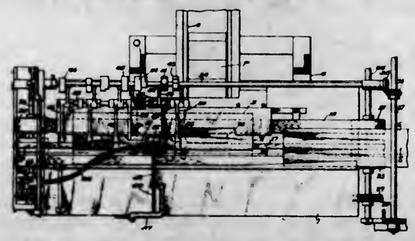
1. An electron emitter comprising a hollow member having a coating of electronically active material, an insulator rod projecting centrally into said member, and a coiled heater element having a portion only of its length supported by said rod, the remainder of said coil being freely supported, said rod being provided with a bore for receiving a portion of the heater element.

1,941,662
PORTABLE COLLAPSIBLE BUILDING
Wayne Cunningham, Savannah, Ga.
Application September 17, 1932
Serial No. 633,671
3 Claims. (Cl. 119—19)



1. In a collapsible building, a pair of front and a pair of rear corner posts, the posts of each pair being arranged in parallel spaced relation, the posts of the front pair being arranged in parallel spaced relation with respect to the posts of the rear pair, each of said posts being formed with superposed horizontally disposed openings, a front wall secured to the rear faces of the posts of the front pair, a rear wall secured to the forward face of the posts of the rear pair, the bottoms of said walls being spaced above the lower ends of the posts, a pair of removable side walls corresponding in height to that of and arranged between the front and rear walls, flat bars fixed to the outer faces of the side walls and extending forwardly therefrom to oppose the outer sides of the front posts, flat bars fixed to the outer faces of the side walls and extending rearwardly therefrom to oppose the outer sides of the rear posts, said bars having the extended portions thereof provided with horizontal openings aligning with the openings in said posts, a pair of spaced parallel supports arranged above the lower ends of the posts and below the bottoms of said walls, means for detachably connecting the ends of each support to a front and a rear post, a floor removably mounted on said supports, means extending through said aligning openings for detachably connecting said bars to the posts, and a roof removably mounted on the posts.

1,941,663
PRINTING MACHINE
Franklin Edwin Curtis, St. Charles, Ill., assignor to Addressograph Company, Wilmington, Del., a corporation of Delaware
Application May 22, 1930. Serial No. 454,595
13 Claims. (Cl. 101—287)

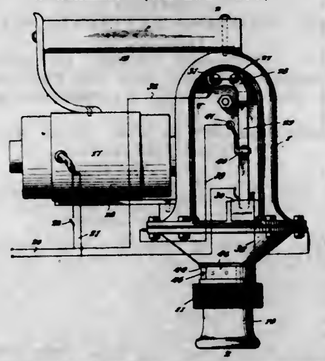


1. The combination with a printing machine embodying printing means, and a carrier for moving a sheet past the printing means, of means including an operating part normally disengaged from the sheet and adapted to be engaged with the sheet, the operating movement of said part moving the sheet relative to the printing means and transversely of the movement imparted thereto by the carrier when said part is engaged with the sheet.

1,941,664
COMPOSITION AND MATERIAL COMPRISING CELLULOSE ESTERS OR ETHERS
Arthur John Daly, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application May 25, 1929, Serial No. 366,100, and in Great Britain June 19, 1928
10 Claims. (Cl. 106—40)

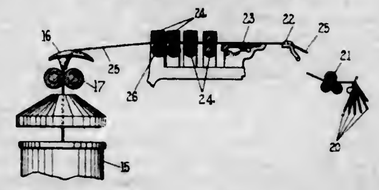
1. A composition of matter comprising an organic substitution derivative of cellulose and an acetylated tri-brom-aniline.

1,941,665
MASSAGE APPARATUS
Raymond E. De Walt, Leola, Pa.
Application August 6, 1930, Serial No. 473,405
Renewed May 23, 1933
2 Claims. (Cl. 174—175)



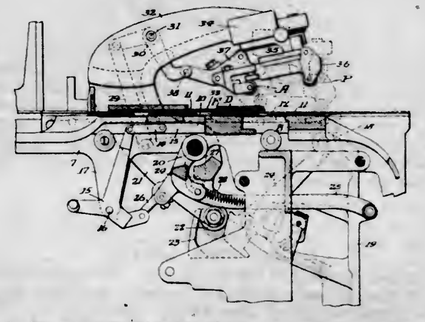
1. In a massage device, the combination of a casing, a gear therein, means for rotating the gear, an applicator cup, a timing block carried by said gear, a conducting strip set in said timing block, brushes mounted in the casing and bearing against the timing block to be spanned at intervals by said conducting strip, means for electrically connecting the brushes with the terminals in the applicator cup, and means for regulating the strength of the current supplied to the terminals.

1,941,666
MACHINE FOR PREPARING OR SPINNING YARNS OR THREADS
William Alexander Dickie and Frank Corbyn Hale, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application November 12, 1930, Serial No. 495,165, and in Great Britain January 3, 1930
2 Claims. (Cl. 19—150)



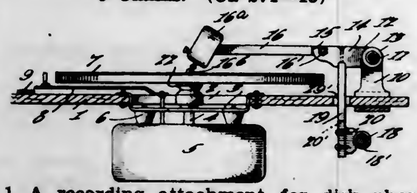
2. Apparatus for use in the preparation of spun yarns from artificial fibres, comprising a guide member and a pair of calendar rolls for leading the material being spun while it is substantially in an untwisted state into a coiler can, said guide member and calender rolls having surfaces of cellulose acetate.

1,941,667
PRINTING MACHINE
Alonzo Eley, Hendon, and Edward John Hodgkinson, Willesden Green, England, assignors to Addressograph Company, Wilmington, Del., a corporation of Delaware
Application March 14, 1931. Serial No. 522,610
5 Claims. (Cl. 101—56)



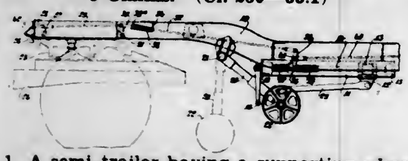
1. In a printing machine, a printing device guideway, printing means extending transversely of said printing device guideway, an ink ribbon extended over said printing means and transversely of said printing device guideway, platen means including platen rollers arranged in tandem and extended transversely of said printing device guideway, and means for simultaneously moving said platen rollers over said printing means and parallel to said printing device guideway and across said ink ribbon to make an impression from said printing means through said ink ribbon.

1,941,668
ELECTRIC CONTROL SYSTEM AND RECORDING DEVICE
Walter Ellman and Fred Berhley, Astoria, Long Island City, N. Y.
Application January 21, 1931. Serial No. 510,299
6 Claims. (Cl. 274—13)



1. A recording attachment for disk phonographs, comprising a guide rod, a screw parallel to said guide rod, a sleeve slidable on said guide rod, an arm extending laterally from said sleeve, a second arm extending from the first arm to a point adjacent the screw and having its free end movable toward and from the screw as the first arm is rocked on the guide rod, a segmental nut normally engaging the screw, an extension for said first arm, interfitting ends on said first arm and its extension to prevent lateral movement of the extension relative to said first arm, a hinge joint extending through the interfitting ends to permit vertical swinging movement of the extension, a recording needle supported from the first arm extension, and means to drive said screw.

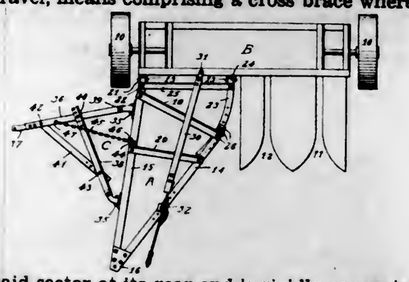
1,941,669
SEMITRAILER
Clyde Erskine, Michigan City, Ind., assignor to International Motor Company, New York, N. Y., a corporation of Delaware
Application June 25, 1932. Serial No. 619,245
6 Claims. (Cl. 280—33.1)



1. A semi-trailer having a supporting wheel, a threaded shaft journaled on the semi-trailer, means to turn the shaft, a nut on the shaft connected to the wheel to effect the movement thereof, a lock on the semi-trailer to secure the same to a tractor, means to urge the lock into locking position, and means operated by the threaded shaft to actuate the lock.

1,941,670
HARVESTER HITCH
Charles Edward Everett, Racine, Wis., assignor to The Massey-Harris Company, Racine, Wis., a corporation of Maryland
Application October 15, 1932. Serial No. 637,947
3 Claims. (Cl. 280—33.44)

1. A hitch of the class described in combination with a wheeled carrying frame, said hitch comprising a unitary frame structure, and a sector, said frame structure having an oblique angle triangle shape the rear long side of which is hingedly connected to said wheeled frame and having a connection to said wheeled frame at its rear short side by means of said sector the rear end of which is hingedly connected to said wheeled frame, the front end of said sector adapted to adjustably telescope said hitch whereby the front end of said hitch may be adjusted to different positions transverse to the direction of travel, means comprising a cross brace where-



by said sector at its rear end is rigidly connected to the rear long side of said hitch adjacent its hinge connection to said frame.

1,941,671
DUCTILE CAST IRON AND METHOD OF MAKING THE SAME
Frank A. Fahrenwald, Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application January 6, 1930. Serial No. 418,785
4 Claims. (Cl. 148—21.7)



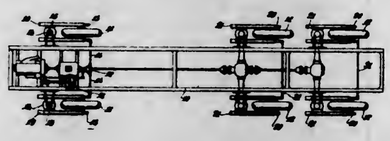
1. The process of producing a metal article of integral section which consists in casting an unstable mixture of from 2.50% to 3.50% carbon, 1.30% to .60% silicon, and iron under chilling and non-chilling conditions, heating the article to a temperature between 1600° and 1850° Fahrenheit to produce in the chilled part of the article a brittle composition containing nodular graphite, quickly quenching the article through the critical temperature to retain the graphite structure in the brittle composition, heating the article to a temperature below the critical temperature to reduce the brittleness of the chilled part of the article and render this part tough, and in then cooling the article to atmospheric temperature, the heating, quenching and cooling of said article not materially affecting the unchilled part thereof.

1,941,672
BRAKE SHOE AND METHOD OF MAKING THE SAME
Frank A. Fahrenwald, Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application January 6, 1930. Serial No. 418,786
14 Claims. (Cl. 148—21.7)



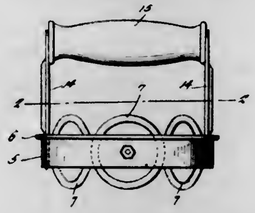
13. The process of making a brake shoe which consists in the steps of first casting the same in white iron containing from 2.20% to 3.50% carbon and from 1.25% to .70% silicon and in chilling the portions of the shoe other than the wearing portion, subsequently maintaining the shoe at a temperature between 1600° Fahrenheit and 1800° Fahrenheit for a period of time to decompose the cementite in said portions at least in part with the liberation of secondary graphite in nodular form, and in finally cooling the shoe through the critical range.

1,941,673
STEERING AND STABILIZING CONSTRUCTION FOR INDIVIDUALLY SPRUNG WHEELS
Emil C. Fink, New York, N. Y., assignor to International Motor Company, New York, N. Y., a corporation of Delaware
Application July 26, 1932. Serial No. 624,689
1 Claim. (Cl. 180—1)



A vehicle having a plurality of forward individually mounted steering wheels, steering means for the wheels, a plurality of individually mounted rear wheels, means to mount the rear wheels to trail, said means including resilient means to mount the rear wheels for yielding floating movement in horizontal planes means on the mounting means to drive the wheels, and a rigid member connecting the ends of the mounting means to cause simultaneous lateral movement thereof.

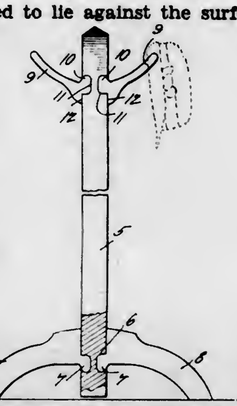
1,941,674
JAR SEALER
Ernest H. Fisher, Cleveland, Ohio
Application February 11, 1933. Serial No. 656,347
1 Claim. (Cl. 81—15.1)



A sealer of the character described comprising an annulus, a handle for the annulus whereby the annulus can be rotated, said annulus being provided on its inner side with a plurality of angularly set constructions, rollers each provided with a hub and means for mounting the rollers on the inclined constructions with their hubs abutting the same so that the said rollers will each operate on an inclined plane.

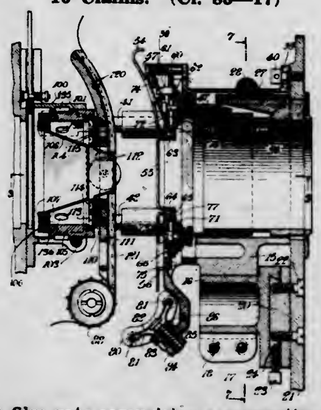
1,941,675
DISPLAY STAND
Clarence L. Foretich, Warren, Ark.
Application February 2, 1931. Serial No. 513,040
1 Claim. (Cl. 211—185)

In display stands, a member having sockets in its sides near the lower end, said sockets extending through the said member and the sides thereof at right angles to the sides having the sockets, each socket extending downwardly beyond the area of the opening at the side of said member, feet for the said member, each having a projection at its inner end complemental to the shape of the socket into which it is fitted, each of said feet having a straight end extending from the inner portion of the extension to the edge opposite that carrying the extension, the said straight end being adapted to lie against the surface of the



member to which the feet are applied, and article supporting devices applied to said member.

1,941,676
FILM GATE FOR MOTION PICTURE PROJECTION MACHINES
Louis Simon Frappier and Ewald Boecking, Brooklyn, N. Y., assignors to International Projector Corporation, New York, N. Y., a corporation of Delaware
Original application August 31, 1928, Serial No. 303,162. Divided and this application October 23, 1928. Serial No. 314,423
16 Claims. (Cl. 88—17)

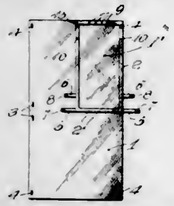


16. A film gate comprising a supporting framework, a plurality of pressure shoes spaced in the direction of movement of a film, means for supporting the first of said shoes on said framework and means for supporting each of the others of said shoes from the preceding shoe, and spring means engaging each of said shoes at spaced points and independently holding each of said points in film engaging position whereby said shoes accommodate themselves to variations in said film.

1,941,677
DIAPER
Eli Friedman, Boston, Mass.
Application August 17, 1933. Serial No. 685,624
7 Claims. (Cl. 128—284)

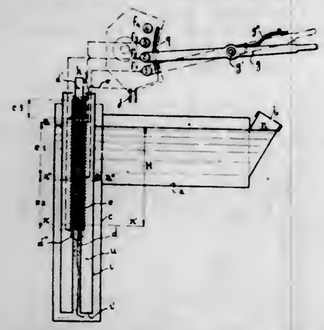
1. A diaper comprising a sheet of fabric havin a section thereof provided with a reinforcing

border extending entirely about the section, said sheet being foldable along inner end and side edges of the said section to form a folded diaper corresponding in dimensions to the said section and having a plurality of layers of fabric, tapes extending from opposite sides of the said section



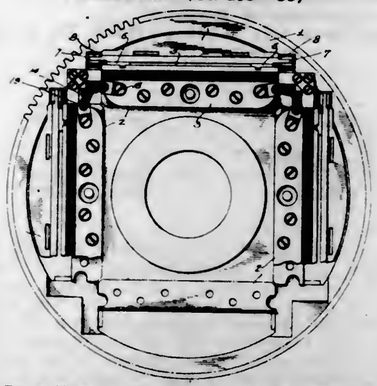
adjacent one end thereof and secured to its reinforced border, fastener elements carried by said tapes, and cooperating fastener elements secured through a portion of the reinforced border of the said section and releasably engaged by the fastener elements of said tapes.

1,941,678
ELECTRIC GASIFIER
Henri Gamard, Bourges, France
Application May 22, 1930, Serial No. 454,783, and in France May 30, 1929
4 Claims. (Cl. 48—103)



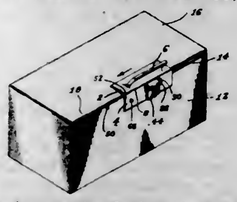
1. A hydrocarbon gas producer comprising a reservoir for liquid hydrocarbon, a sleeve closed at its lower end and open at its upper end and provided at its upper end with a supporting plate, a gasifying tube in the sleeve and carried thereby, said tube being open at its lower end and provided with a jet orifice at its upper end, a base element on the reservoir, a head comprising a lower member and an upper member detachable from the lower member, the said supporting plate of the sleeve being secured to the lower member of the head and said lower member being detachably mounted on the base element, a mixing tube into which the jet orifice of the gasifying tube discharges, said mixing tube being detachably mounted on the upper member of the head, heating means for the gasifying tube comprising an electrical resistance on said tube and including contacts mounted on the lower member of the head and a switch lever mounted on the reservoir, each member of the head having an electrode on one side thereof and a contacting cord having a socket member common to both of said electrodes, so that when said socket member is applied to the electrodes it coacts therewith to detachably secure the members of the head together.

1,941,679
LINE-CASTING MOLD
Lewis Geisert, Philadelphia, Pa.
Application September 20, 1932
Serial No. 634,028
8 Claims. (Cl. 199—55)



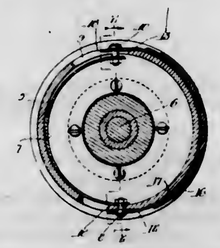
1. In a line-casting machine, the combination with the mold, mold cap and liners, of mechanism constituting both means for locking said cap in operative relation to the mold and to said liners and for adjusting said cap to permit replacement of said liners, said mechanism comprising a member movable with the mold cap, an axially fixed element engaging the first named member and means operable to rotate said axially fixed element for advancing and retracting said member in a predetermined path.

1,941,680
PAPER-CARTON OPENER
Lewis Walter Goldstein, Pittsfield, Mass.
Application November 11, 1932
Serial No. 642,214
26 Claims. (Cl. 164—83)



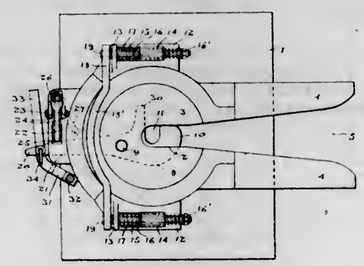
16. An instrument of the class described for opening a paper box and the like comprising a one-piece member and handle, the member being substantially in the form of a dihedral angle and the handle being disposed exterior to the dihedral angle near the line of intersection of the faces thereof, the faces being adapted to be disposed in contact with adjacent faces of the box and the instrument being adapted to be moved along the said adjacent faces by the handle, the inner portions of the forward ends of the faces being beveled, the faces being disposed at an angle to each other slightly more than a right angle, the instrument having a groove disposed longitudinally along the line of intersection of the dihedral faces for receiving a projecting, rounded edge between the said adjacent faces, one of the faces having an opening and a guide, a slide disposed near the opening and adapted to be adjusted in the guide toward and from the line of intersection of the dihedral faces comprising two blade clamping members, one of the clamping members being provided with a diagonally disposed cavity, the other clamping face having a correspondingly diagonally disposed projection, and means for clamping the blade-clamping members together.

1,941,681
PRINTING MACHINE
Walter T. Gollwitzer, Chicago, Ill., assignor to Addressograph Company, Wilmington, Del., a corporation of Delaware
Original application October 26, 1927, Serial No. 228,229. Divided and this application April 30, 1929. Serial No. 359,197
10 Claims. (Cl. 101—415.1)



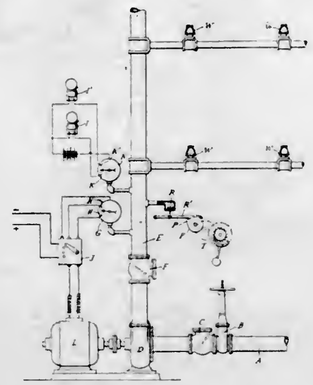
1. A printing device for printing machines comprising a roll having an opening therein, a spring secured at one end within the roll and having its other end disposed opposite said opening, and a printing form detachably engageable with said roll and with the free end of said spring.

1,941,682
FIFTH WHEEL CONNECTER FOR SEMITRAILERS
William S. Gurton, Joseph Plint, and Herman Nyberg, Kitchener, Ontario, Canada, assignors to Dominion Truck Equipment Co. Limited, Kitchener, Ontario, Canada
Application February 8, 1932. Serial No. 591,568
9 Claims. (Cl. 280—33.1)



1. A fifth wheel connecter comprising the combination with a tractor having a mounting to receive the fifth wheel member of a trailer, of draft members mounted respectively on the tractor and trailer and forming a detachable draft connection, between said tractor and fifth wheel member, and cushioning means interposed between said tractor and trailer and co-operating with the respective draft members thereof to hold the same in positive pressure contact with each other.

1,941,683
BOOSTER PUMP APPARATUS FOR FIRE EXTINGUISHING SYSTEMS
John R. Hamilton, Cleveland Heights, Ohio, assignor to Automatic Sprinkler Company of America, Cleveland, Ohio, a corporation of Delaware
Application February 2, 1928. Serial No. 251,245
5 Claims. (Cl. 169—13)



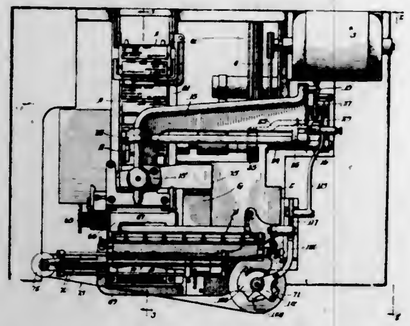
3. In a fire extinguishing system provided with a booster pump for maintaining effective pressure in the distributing piping, and with means responsive to a thermostatically controlled decrease of pressure in the system for bringing the pump into operation, automatic and periodically operating testing means therefor comprising a valve connected with the system and normally closed and means acting automatically and independently of any supervisory act on the part of an attendant for periodically or at regularly recurring intervals opening and then closing said valve said means acting independently of the pressure conditions in the distributing piping and means responsive to increase of pressure due to the operation of the pump thus brought about for indicating the operation thereof.

1,941,684
BAND FOR JEWELRY PURPOSES
August Hiller, Pforzheim, Germany
Application December 15, 1930, Serial No. 502,510, and in Germany September 6, 1930
3 Claims. (Cl. 63—28)



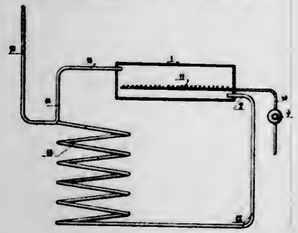
1. A hollow, narrow elongated band element with a convex surface completely set with decorative stones, comprising in combination two symmetrical suitably pressed metal plates, rigidly connected after the setting of the stones, adapted to form the setting frame for the stones, and a metal protecting box corresponding to the shape of and surrounding said frame so that only the narrow side of the frame set with the decorative stones is visible, whereas the remaining boundary surfaces of the band are formed by said protecting box.

1,941,685
PRINTING MACHINE
Henry E. Hubbard, Chicago, Ill., assignor to Addressograph Company, Wilmington, Del., a corporation of Delaware
Application June 10, 1929. Serial No. 369,559
22 Claims. (Cl. 101—47)



1. In a printing machine of the class described, the combination of means for successively feeding printing devices to printing position, a sheet carriage adapted to move the sheet relatively to printing position, and transposing means for shifting the printing device to present different printing characters to printing position and including changeable means for varying the operation of the transposing means.

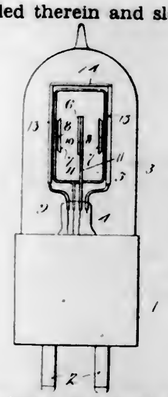
1,941,686
STEAM BOILER
André Huet, Paris, France, assignor to The Superheater Company, New York, N. Y.
Application April 23, 1931, Serial No. 532,229, and in France April 29, 1930
2 Claims. (Cl. 122—31)



1. In apparatus for producing steam which comprises a closed circuit having downcomer and riser portions and an outlet, a superheater in said riser portion, and means for injecting water into said circuit at a point such that the vapor in said downcomer portion will have normally a greater density than that in said riser portion to assist circulation in the circuit.

1,941,687
AUDION CONSTRUCTION
Frederick L. Hunter, Jr., Towaco, N. J., assignor to De Forest Radio Company, Jersey City, N. J., a corporation of Delaware
Application April 8, 1927. Serial No. 182,079
12 Claims. (Cl. 250—27.5)

1. A cathode construction for audions comprising a block of insulating material having heating means imbedded therein and slabs of electronically active material supported on said block in grooves formed on the surface thereof.



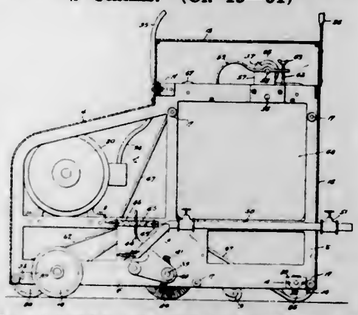
1,941,688
CATALYTIC OXIDATION OF ORGANIC COMPOUNDS
Alphons O. Jaeger, Crafton, Pa., assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application July 21, 1928
Serial No. 294,597
14 Claims. (Cl. 260—57)

1. A method of oxidizing organic compounds, which comprises passing the vapors of the compounds mixed with an oxidizing gas at a reaction temperature over a catalyst which contains an acid leached permutogenetic body.

1,941,689
MOTOR FUEL
Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application July 20, 1931
Serial No. 552,076
4 Claims. (Cl. 44—9)

1. A cracked hydrocarbon distillate containing high percentages of unsaturated compounds combined with a gum inhibitor in the form of succinimide.

1,941,690
SCRUBBING MACHINE
Nicholas Janchan, West Allis, Wis.
Application December 4, 1931. Serial No. 579,018
2 Claims. (Cl. 15—51)

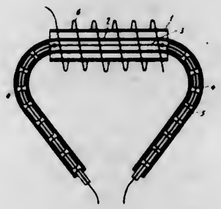


1. In a scrubbing machine of the character described comprising a mobile carriage, a scrubbing brush including a shaft, a pair of rockable supports for the ends of the shaft, each of said supports being provided with a spring arm, and a rack for each of the said arms, and against which the said arms can engage for adjustably supporting the shaft.

1,941,691
METHOD OF VULCANIZATION
Leslie G. Jenness, Brooklyn, N. Y., assignor to St. Mungo Manufacturing Company of America, Newark, N. J., a corporation of New Jersey
No Drawing. Application August 19, 1932
Serial No. 629,494
11 Claims. (Cl. 18—53)

1. In the treatment of materials such as rubber, gutta percha, balata and the like, the process which comprises incorporating a vulcanizing agent with the material being treated and then subjecting the mixture to the action of an accelerating solution containing a diluent capable of retarding the action of the solution upon the material being treated.

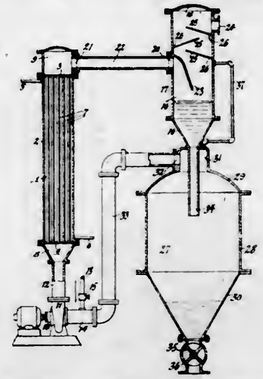
1,941,692
INDIRECTLY HEATED CATHODE
Günther Jobst, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany
Application September 28, 1928, Serial No. 308,403, and in Germany October 21, 1927
2 Claims. (Cl. 250—27.5)



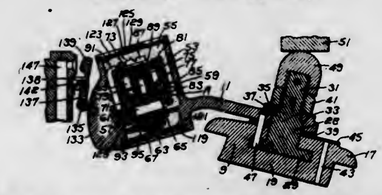
1. An indirectly heated cathode for an electron discharge device, comprising a rectilinear heater element, a tubular electron emitting member surrounding and spaced from said heater element, a tubular metallic screen interposed between said heater and said electron emitting member and separated from both the heater and the electron emitting member by vacuous space, and insulating means at each end of the tubular screen for maintaining said heater element in spaced relation with respect to said tubular screen.

1,941,693
EVAPORATOR
Martin J. Kermer, Buffalo, N. Y., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y., a corporation of New York
Application April 15, 1932. Serial No. 605,480
2 Claims. (Cl. 159—45)

1. An evaporator comprising a liquid and crystal separator having a body provided on top with a central dome of smaller diameter than said body, a liquid outlet in the upper part of said dome, a crystal outlet at the bottom of the body, and an inlet pipe for crystal laden liquid projecting downwardly through the central part of said dome into the central part of said body.



1,941,694
ALARM DEVICE
Walter M. S. Kilgour, Lexington, Mass.
Application October 9, 1929. Serial No. 398,494
10 Claims. (Cl. 200—81)

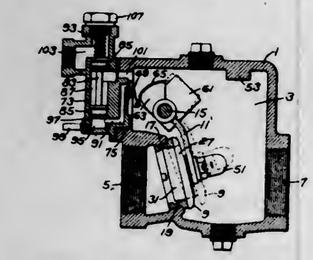


10. An alarm valve structure for fluid distributing systems having, in combination, a casing having a chamber, a fluid inlet and fluid outlet for said chamber, a substantially cylindrical interior valve seat, an arm mounted for swinging movement, a flow-actuated valve carried by said arm comprising a plug cooperating with said valve seat, said plug and seat being so shaped and disposed that said plug first leaves said seat at one side thereof at an intermediate position of its travel whereby the valve is moved in opening direction abruptly from said position, and a tilt operated electric switch carried by said arm for movement therewith, said switch being operative to change circuit connections when moved to a position which corresponds to said intermediate position of travel of said plug.

1,941,695
ALARM DEVICE
Walter M. S. Kilgour, Lexington, Mass.
Application October 30, 1929. Serial No. 403,463
22 Claims. (Cl. 169—23)

5. In an alarm controlling device for sprinkler systems, a casing having an outlet and an inlet respectively for connection to the sprinkler heads and the water supply therefor, a flow operated alarm controlling valve in said casing for establishing and interrupting communication between said inlet and outlet, means enforcing a predetermined direction of movement of said valve, said valve having an annular poppet portion and a plug portion, an annular valve seat for the poppet portion of said valve, said valve mounted for free movement in response to pressure con-

ditions at opposite sides thereof for causing said plug portion to enter and withdraw from the opening defined by said annular valve seat, an internal annular valve seat for said plug portion arranged to contact therewith throughout a circumference thereof for a substantial extent of movement of said valve when said poppet portion thereof is out of contact with its seat, that end of said plug portion which is opposite said poppet portion being at an angle to said seat for the latter as said plug portion is withdrawing from said opening.



9. In a device of the character described, a casing having an inlet and an outlet, a flow controlled valve for establishing and interrupting communication between said inlet and outlet, said valve mounted for swinging movement and having provision for substantial movement in valve-opening direction before establishing communication between said inlet and outlet, and an alarm valve actuated by movement of said first mentioned valve to permit escape of fluid from said casing after said first mentioned valve is opened.

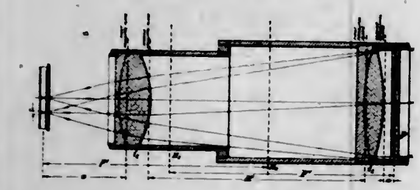
20. In a device of the class described, a casing, a valve in said casing having a poppet portion and a plug portion, valve seats in said casing for said portions, said plug portion remaining in contact with its seat until after said poppet portion leaves its seat, an alarm, means operated in response to opening movement of said valve after said plug portion is moved from in contact with its seat for actuating said alarm, and restricted conduit means establishing communication between the inlet and outlet sides of said valve.

1,941,696

PHOTOGRAPHIC OBJECTIVE

Isaac Kitroser and André Avéran, Paris, France, assignors, by mesne assignments, to Keller-Dorian Colorfilm Corporation, New York, N. Y., a corporation of Delaware

Application March 18, 1929, Serial No. 348,090, and in France March 21, 1928
4 Claims. (Cl. 88—16.4)



1. A collimated objective adapted to be used with goffered films adapted to produce sharp images and good color reproductions comprising an optical system and an effective diaphragm color selector filter which is placed in front of the objective and in which the optical system conforms to the formulæ

First

$$\frac{1}{f_1}+\frac{1}{f_2}-\frac{E}{f_1 f_2}=\frac{1}{F}$$

Second

$$\frac{1}{e}=\frac{1}{f_1-E}+\frac{1}{f_2}$$

Third

$$T=e+\frac{f_2\left(\frac{f_1 a}{a-f_1}+E\right)}{\frac{f_1 a}{a-f_1}+E-f_2}$$

where f_1 and f_2 are the focal distances of the first and second optical systems respectively, E the spacing between the two optical systems, F the total focus of the objective, e the object focus from the second optical system, a the distance of the filter diaphragm from the first optical system, and T the distance of the filter-diaphragm from the film in the camera apparatus used.

1,941,697

TRANSFER

Winthrop Stanley Lawrence, Brooklyn, N. Y., assignor to Kaumagraph Company, New York, N. Y., a corporation of New York

No Drawing. Application March 16, 1931
Serial No. 523,202
7 Claims. (Cl. 41—33)

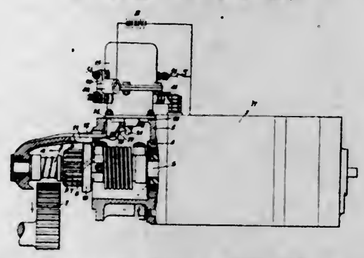
6. A method of making a heat transfer which consists in printing upon a paper base a marking which comprises molten fusible material and a pigment and a relatively volatile fluid which does not substantially volatilize when the composition is melted and whose boiling point is above 200° C., and then allowing the volatile fluid to escape from the printed marking which is formed upon said paper base.

1,941,698

STARTING GEAR FOR INTERNAL COMBUSTION ENGINES

Archibald Charles Lock, Dulwich, England, assignor to Simms Motor Units Limited, London, England

Application July 21, 1932, Serial No. 623,882, and in Great Britain June 13, 1932
7 Claims. (Cl. 290—38)



1. In a starting gear adapted for automatic coupling to and uncoupling from a toothed driven member of an internal combustion engine, the combination of an electric motor, a toothed coupling element operatively connected to said motor, means operable automatically as the motor starts to impart a coupling movement to said element, a resistance element connected in series with a winding of said motor, a switch operatively connected in series with said winding and said resistance element, a second switch operable when closed to short-circuit said resistance element, an electro-magnetically actuated prime mover operatively connected to both said switches so that when energized said prime mover closes the first switch, and an operative connection between the prime mover and said toothed coupling element operable to cause the prime mover to close the second switch only after the said coupling movement of said element has been effected.

1,941,699

SOCK SUSPENDER

Heinrich Löffler, Duisburg, Germany

Application September 30, 1932. Serial No. 635,584, and in Germany July 14, 1930
1 Claim. (Cl. 241—1)



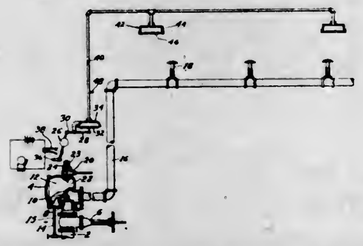
A sock suspender, comprising in combination a rubber cord of circular cross section and forming at each end an adjustable loop the one to hold a device to be attached to the trousers, pants and braces and the other to be attached to the top edge of the sock, clamping locks having each two parallel channels of circular cross section one of said channels threaded on the rubber cord the other channel clamping the corresponding end of said rubber cord, a resilient partition separating said two channels of each lock, a clamping bow hingedly mounted on said partition, and a nose on the inner side of said clamping bow adapted to press the end of said resilient partition inwards to clamp said rubber cord when said bow is being moved into the closing position.

1,941,700

DUAL ACTION DELUGE VALVE

Ernest A. Lowe, Cleveland, Ohio, assignor to Automatic Sprinkler Company of America, Cleveland, Ohio, a corporation of Delaware

Application July 17, 1930. Serial No. 468,491
3 Claims. (Cl. 169—17)



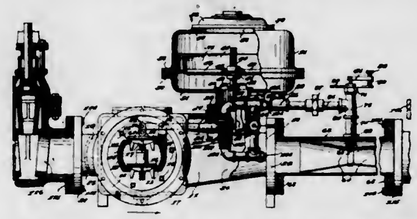
1. In a fire extinguishing apparatus, a source of fire extinguishing fluid, means for releasing the same and means for controlling said releasing means comprising an element responsive to increase or decrease of pressure, means for actuating said element comprising a heat absorbing unit placed in a fire zone and connected by pressure transmitting tubing to said element, said unit being formed with means for transmitting exterior increase or decrease of pressure to the interior thereof.

1,941,701

DYNAMIC FLOW CONTROL METHOD AND APPARATUS

Allen D. MacLean, Pittsburgh, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 18, 1928. Serial No. 286,447
15 Claims. (Cl. 50—16)



1. In combination with a diaphragm operated pressure regulator embodying an operating diaphragm chamber; means connected to the outlet of said regulator to establish an area of pressure lower than the pressure in the outlet of said regulator by an amount dependent on the flow of fluid through said regulator outlet; a bypass fluid connection between the outlet of said reglator and said area; flow restricting means connected in said bypass connection; and a connection from said bypass to said diaphragm chamber providing a non-closable passage between said chamber and said area.

1,941,702

METHOD OF REDUCING SULPHUR COMPOUNDS TO ELEMENTARY SULPHUR OR HYDROGEN SULPHIDE

Charles G. Maier, Berkeley, Calif., assignor of one-fourth to Reginald S. Dean, Washington, D. C., and one-fourth to Henry A. Doerner, Reno, Nev.

No Drawing. Application February 7, 1931
Serial No. 514,319
4 Claims. (Cl. 23—226)

1. In a process of reducing sulphur-oxygen compounds wherein the compound to be reduced is heated at an elevated temperature in the presence of a reducing agent, the improvement which comprises treating the compound to be reduced with a hydrogen-carbon monoxide mixture, the hydrogen constituting in an excess of 55 per cent. of the mixture.

1,941,703

CASING CUTTER

Arthur E. Martois, Compton, Calif.

Application July 1, 1930. Serial No. 465,147
14 Claims. (Cl. 81—195)

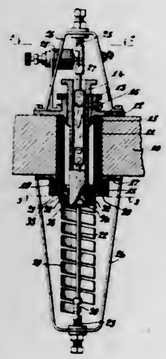
1. In a rotary casing cutter: a body having a depending shaft; a knife guide having a sleeve slidably mounted over said shaft for limited longitudinal movement; a slip mechanism for causing sliding of said sleeve and guide, said slip mechanism comprising a slip actuator including spaced spring followers slidably mounted on said sleeve, bowed springs connecting said followers; a slip body slidable on said sleeve and disposed intermediate the followers, there being an abutment on said sleeve for engagement by said slip

body in its upward movement; slips riding on said slip body and coupled to said actuator; and



releasable means for holding said actuator against longitudinal movement.

1,941,704
THERMOSTATIC RELAY
Alfred F. Masury, New York, N. Y., assignor to International Motor Company, New York, N. Y., a corporation of Delaware
Application February 21, 1933. Serial No. 657,763
4 Claims. (Cl. 200—139)



1. A thermostat comprising a rotatable spindle, a helical thermal element secured at one end to the spindle, a sleeve mounted rotatably with respect to the spindle, means to secure the other end of the element to the sleeve, a sleeve concentric with the spindle and constrained to axial motion, and a curved spline connection between the first named sleeve and element.

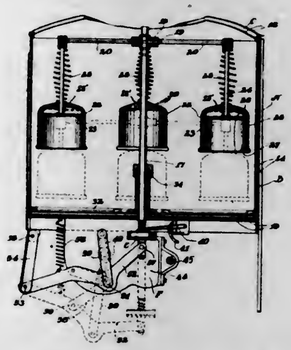
1,941,705
RADIATOR
André M. Mertzanoff, New York, N. Y.
Application May 29, 1930. Serial No. 457,429
9 Claims. (Cl. 257—136)

3. A radiator comprising a tubular heating element, and a series of extended surface members surrounding the same; said radiator having its rear portion of substantially semi-circular form in cross section, and having a part of its front



portion disposed in a vertical plane parallel with and to the rear of the remainder of its said front portion, substantially as specified.

1,941,706
WASHING MACHINE
Andrew B. Miller, Baldwin, Wis.
Application March 17, 1930. Serial No. 436,382
10 Claims. (Cl. 68—19)

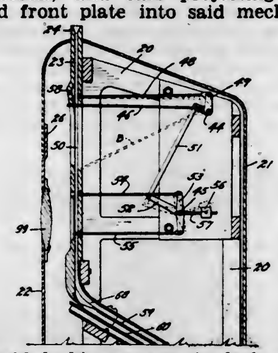


1. A washing means having a washing tub, a series of spring washing pumps, means for automatically reciprocating said pumps vertically, ratchet means engaged during a portion of upward reciprocation of said pumps for moving said pumps horizontally, and a friction connection on said ratchet to release the horizontal movement of said pumps when subjected to unusual strain at any time.

1,941,707
AUTOMATIC FARE BOX
Oscar Miller, Denver, Colo., assignor of forty per cent to Foster Cline, Denver, Colo.
Application March 5, 1932. Serial No. 597,041
13 Claims. (Cl. 235—32)

1. A fare box comprising: a coin receiving and registering mechanism; a housing for enclosing said mechanism; a cash box supporting said mechanism in said housing; a front plate closing said housing and maintaining said mechanism and said cash box in place therein; locking means passing through said housing and said mechanism for locking said front plate in

place thereon; and ears projecting inwardly from said front plate into said mechanism to



engage said locking means to lock said front plate in place.

1,941,708
COATING COMPOSITION AND FILM PRODUCED THEREBY
William Henry Moss and Blanche B. White, Cumberland, Md., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
No Drawing. Application March 3, 1928
Serial No. 258,998
4 Claims. (Cl. 134—79)

1. A coating composition comprising an organic derivative of cellulose, a phenol-furfural resin which bleaches on exposure to light, a phenol-aldehyde resin which darkens on exposure to light and a common solvent, the proportions of resins present being such as to produce films that maintain their color unchanged on exposure to light.

1,941,709
METHOD OF COATING AND PRODUCT THEREOF
William Henry Moss, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 20, 1929
Serial No. 348,667
9 Claims. (Cl. 91—68)

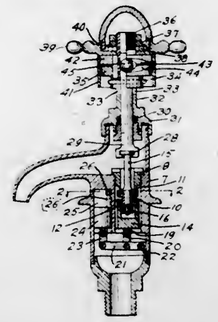
1. In a method of coating surfaces with lacquers containing derivatives of cellulose, the step of applying to such surfaces a primer in which the major non-volatile constituent is a non-resinous substance capable of inducing plasticity in the cellulose derivative.

8. An article of manufacture having at least on part of the surface thereof a coat formed by the application of a primer and a film formed from a lacquer containing a derivative of cellulose superposed thereon, said primer being of a composition in which the major non-volatile constituent is a non-resinous substance capable of inducing plasticity in said cellulose derivative.

1,941,710
COMPOSITION CONTAINING DERIVATIVES OF CELLULOSE
William Henry Moss, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application November 7, 1929
Serial No. 405,538
9 Claims. (Cl. 106—40)

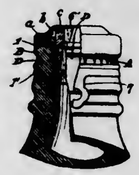
2. A composition of matter containing cellulose acetate and a dihydroxy benzophenone.

1,941,711
SELF-CLOSING VALVE
August V. Nielsen, Salt Lake City, Utah
Application February 6, 1929. Serial No. 337,861
7 Claims. (Cl. 251—143)



1. In a self-closing valve, a casing, an outlet passage therethrough, a fluid-pressure operated closure for said passage, a stem connected to said closure, a rod connected to said stem, an elongated cap connected to said casing and lying around said rod, diametrically opposite slots in the elongation of said cap, a pin extending through said slots and said rod, a collar on said rod, said pin passing through said collar also, an upwardly facing cam surface on said collar at each opposite end of a diameter, an annulus having similar cam faces opposed to the first mentioned cam faces, a manually operable member having a depending skirt within which said annulus is disposed, balls between the cam faces of each opposed pair, a skirt nut fixed to said elongation, and antifriction means between said nut and said manually operable means.

1,941,712
HERMETIC SEAL FOR BOTTLES
Chisada Ohta, Kita-Ku, Osaka, Japan
Application March 16, 1932, Serial No. 599,253, and in Japan March 23, 1931
3 Claims. (Cl. 215—39)



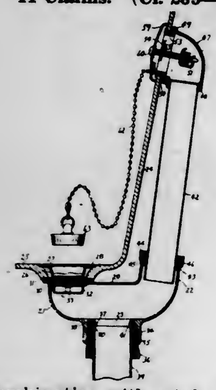
1. A closure for bottles, having mouths with outwardly projecting lips, consisting of a cap-shaped metal structure adapted to rest on the mouth of a bottle, and having a cylindrically extended body, with two annular embossments horizontally encircling the middle portion of the cylindrical body, one above the other, and with an intervening zone having a number of perforations located at intervals apart, whereby upon compression of the uppermost of said embossments, in applying said closure to a bottle, the perforated zone will be forced into the space below the lip of the bottle mouth, and thereby tightly secure the closure to the neck of the bottle.

1,941,713
FOOT CORRECTIVE DEVICE
Robert V. Parsons, Johnstown, Pa.
Application January 23, 1932. Serial No. 588,380
5 Claims. (Cl. 36—71)



1. A foot corrective appliance, comprising a resilient pad to engage the foot from the heel to a point near the toe-line, an insulating covering coextensive with the upper side of the pad, a foot contacting sheet upon and coextensive with the covering, linear securing means for the sheet arranged to form pockets for reception of resilient inserts between the covering and the sheet, said linear securing means comprising a diamond shaped stitching inward of the heel portion through the covering and foot contacting sheet, a longitudinal stitching which with the diamond stitching divides the heel portion into a pair of pockets, and a triangular stitching forwardly spaced from the diamond shaped stitching and defining therebetween a longitudinal arch supporting insert pocket on opposite sides of the appliance.

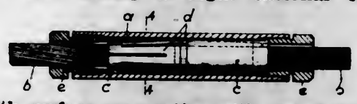
1,941,714
WASTE AND OVERFLOW FITTING
Abram N. Pasman, Waterbury, Conn.
Application November 25, 1930
Serial No. 497,984
11 Claims. (Cl. 285—29)



11. In combination with a tub or the like having an opening, a flanged ring member extending through said opening and having the flange abutting the sides of the tub adjacent the opening, an overflow connection provided with recessed lugs and means including a cross bar associated with said lugs for connecting said flanged ring member and said connection to the tub or the like adjacent said opening.

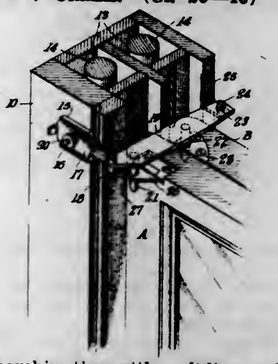
1,941,715
WIDE SPAN CABLE CONNECTER FOR HIGH-VOLTAGE LINES
Karl Pfisterer, Stuttgart-Unterturkheim, Germany
Application October 29, 1929, Serial No. 403,285, and in Germany April 3, 1929
2 Claims. (Cl. 173—303)

1. A wide span cable connecter for high-voltage lines, comprising an integral outer body member having solid walls and a pair of slight and smooth conical internal surfaces, each conical surface extending from the center of the body to approximately the end thereof; a slotted sleeve mounted on each cable end and having an outer conical surface; an outer conical sleeve fitting over and cooperating with the slotted sleeve and having a slight external conical



smooth surface cooperating with one of the conical surfaces of the outer body member; and means cooperating with each end of the body member to force the outer sleeve on the slotted sleeve and the latter to the cable and to engage the slight conical surfaces tb thereby secure the ends of the cable in the connecter, the tension in the cable being carried by the body member and the sleeves around the ends of the cable.

1,941,716
WINDOW SASH CONSTRUCTION
Fred Pickel and William von Poelgeest, Hasbrouck Heights, N. J.
Application January 27, 1932. Serial No. 589,125
7 Claims. (Cl. 20—46)



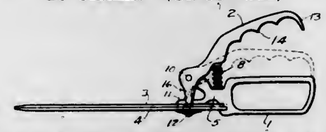
1. The combination with a sliding sash window, of pivot pins attached to the lower portions of each sash adjacent one side edge thereof, sockets set in the window sill to receive said pins, socket members attached to the upper portions of said sashes and in alignment with each of the mentioned pins, a hooked stud on the outer edge of the window frame adjacently above the sashes when lowered, and a yoke having a hole for removable engagement with the stud, said yoke having pins enterable into the last mentioned sockets.

1,941,717
SANITARY APPLIANCE
Miriam E. Rabell, Pelham Manor, N. Y.
Application August 9, 1933. Serial No. 684,320
3 Claims. (Cl. 128—285)



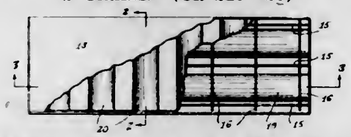
2. A menstrual tampon comprising a woven fabric diaphragm which is freely bendable and which is adapted to be located transverse to the vaginal passage when the tampon is inserted, said diaphragm being substantially normally resilient and having sufficient size and stiffness so that it will substantially span the mouth of said passage when inserted, said diaphragm having a mass of absorbent material secured to a side thereof, the edge part of said absorbent material being adjacent and secured at the edge of the diaphragm, the material of said diaphragm being stiffer than said absorbent material, and a string connected to said diaphragm, said absorbent material being substantially co-extensive with the surface of the diaphragm so as to engage the wall of the passage.

1,941,718
GRASS CLIPPER
Edward L. Rasmussen, Seattle, Wash.
Application October 14, 1932. Serial No. 637,680
12 Claims. (Cl. 56—241)



1. In a grass clipper of the character described, a handle, two blades pivotally mounted in the handle, said shearing blades having openings in the sides thereof adjacent the pivot point, an operating lever hinged to the handle having prongs extending into the openings in the blades for drawing the blades together as the lever is pushed downward, and means for resiliently raising the said operating lever.

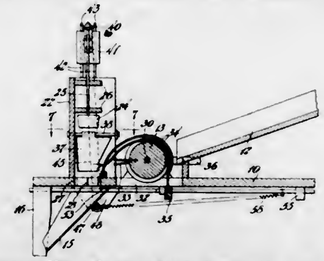
1,941,719
CUSHIONED EGG BOX
Harlow M. Russell, Chelsea, Mass.
Application November 6, 1931. Serial No. 573,415
2 Claims. (Cl. 217—27)



1. The combination with a box having partitions therein at an angle to each other, said partitions having their upper and lower edges formed to provide alternating convexities and concavities, of cushioning strips having arched portions in line with the edge concavities of the partitions.

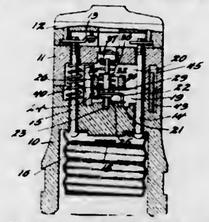
1,941,720
POTATO CUTTING MACHINE
John H. Russell, Kimball, Nebr.
Application December 12, 1931
Serial No. 580,712
3 Claims. (Cl. 146—169)

1. A potato cutting machine comprising, in combination, a bed having transversely spaced openings therethrough near the front ends; vertical cutting knives extending across the openings; a compartment extending upwardly around each opening, said compartments being open at their rear ends; a plunger rod slidably mounted for vertical reciprocation in each compartment; a head on the lower end of each plunger; means to reciprocate the plunger rods alternately to force potatoes downwardly over the knives; guide means in each compartment to position the potatoes centrally over the knives; a hopper; a chute leading from the hopper toward each compartment; means between the chutes and the compartments to feed potatoes into the guide means; a rotatable shaft for the feeding means; a horizontal rod slidably mounted beneath the bed at one side thereof; a transverse knife secured at one end to the rod and adapted to move



longitudinally of the bed beneath one of the openings; spring means to normally hold the knife in front of the opening; a lug on the rod; cam means on the shaft engageable with the lug to move the rod rearwardly against spring tension and then release it; and manually operated means to render the knife inactive.

1,941,721
PULL SOCKET
Mark N. Russell, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Application February 27, 1930
Serial No. 431,910
10 Claims. (Cl. 173—354)



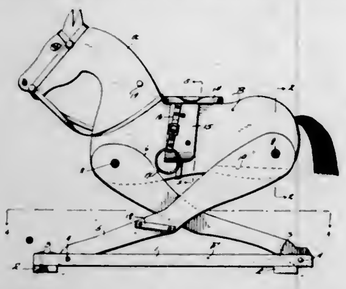
3. In a pull chain switch, having a stationary and a rotatable contact member, the combination with an operating member rotatable coaxially with said movable contact and having one-way engaging means therefor, means limiting the movement of said operating member to less than 180°, a chain normally arranged on the outer surface of said operating member and passing through a stationary chain guide, a clip attaching the chain end to the operating member, said parts being so positioned that the clip engages the chain guide to limit the movement of the operating member.

4. In a pull chain switch, in combination, stationary and movable contact members, an operating member of frangible material rotatable about a pivot and having means to engage said movable contact to actuate the switch, a chain to move said operating member, a spring to return said operating member after movement by said chain, and a yielding stop to limit the return of said operating member.

1,941,722
HOBBY HORSE
Raymond Osborne Stockil, Takoma Park, Md.
Application June 2, 1931. Serial No. 541,639
8 Claims. (Cl. 272—52)

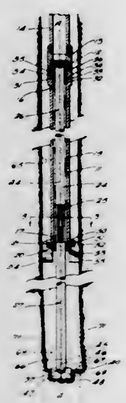
1. A hobby horse comprising a base structure, a pair of elongated members pivotally connected

to the forward portion of the base structure, a second pair of members pivotally connected with the rear portion of the base structure, a body, the opposite end portions of the first pair of members being pivotally connected to the rear portion of the body and the opposite end portions of



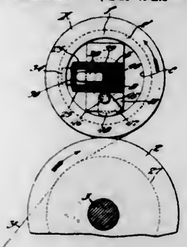
the members of the second pair being pivotally connected with the forward portion of the body, the distance between the pivotal connections of the members with the body being less than the distance between the pivotal connections between said members and the base structure.

1,941,723
STRAIGHT HOLE DRILLING DEVICE
Voet E. Stroud, Bellflower, Calif.
Application April 29, 1931. Serial No. 533,678
3 Claims. (Cl. 255—61)



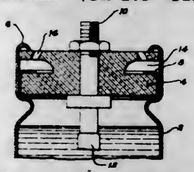
1. A drilling device of the character described, including: an outer tubular member having its upper end adapted to be secured to the lower end of a string of drill pipe, and having a bore with longitudinal grooves in the wall of such bore; an inner member slidable within said bore, said inner member having radially projecting ribs adapted to engage said longitudinal grooves, the lower end of said inner member being adapted to receive an inner cutter of a character to make pilot engagement with the bottom of the hole being drilled; a ring fitted into the lower end of said outer tubular member, said ring providing a lower end wall for said grooves in said outer tubular member; and means on the lower end of said outer tubular member adapted to receive an outer cutter member.

1,941,724
WINDING MACHINE
Ernest R. Swanson, Cranston, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application January 13, 1931. Serial No. 508,495
12 Claims. (Cl. 242—18)



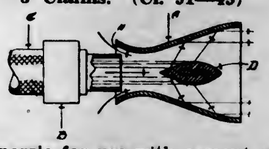
1. In a winding machine, the combination of a spindle for rotatively supporting a yarn-receiver having a recess in its end, means for rotating the yarn-receiver in a given direction to wind a package thereon, and means mounted in position to enter the recess in the yarn-receiver when the latter is placed on the spindle to adapt it to cam against a portion of the yarn-receiver to prevent its rotation in the opposite direction while permitting it to turn in the normal direction.

1,941,725
ELECTROLYTIC CONDENSER
Howard J. Tyzzer, Melrose, Mass., assignor to Electro Formation, Inc., Medford, Mass., a corporation of Ohio
Application September 4, 1930
Serial No. 479,713
2 Claims. (Cl. 175—315)



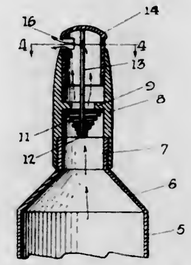
2. An electrolytic condenser comprising a container, a cover sealed in the container and having an annular recess into which liquid creeping from the container may localize, the cover having small openings communicating with the recess to afford contact of air with the liquid.

1,941,726
CEMENT GUN NOZZLE
John T. Vawter, Los Angeles, Calif.
Application January 2, 1930. Serial No. 417,950
3 Claims. (Cl. 91—45)



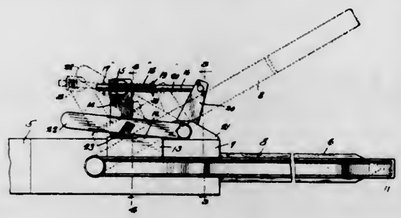
1. In a nozzle for use with cement gun equipment: means for reducing the speed of the particles projected therethrough, said means including passages in said nozzle arranged to communicate the flowing air within the nozzle with exterior air surrounding the nozzle; and a particle obstructing element arranged within the orifice of the nozzle.

1,941,727
SELF-SEALING DISPENSER FOR TOOTH-PASTE AND LIKE COMMODITIES
Vance S. Wilcox, Los Angeles, Calif., assignor of one-half to Laurence D. Moore, Los Angeles, Calif.
Application June 3, 1932. Serial No. 615,232
1 Claim. (Cl. 221—60)



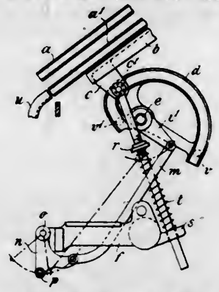
In a device of the character described, a tubular member capable of being removably attached to a collapsible tube, a tubular telescoping member having a closed outer end and an open inner end and slidably positioned in said tubular member, the cylindrical wall of said telescoping member having a discharge port near its outer end, whereby the contents of said tube may be expressed through said tubular member and through said port of said telescoping member, a pin centrally secured in said closed end and extending into said tubular member, said tubular member having an annular shoulder formed therein, a spring interposed between said annular shoulder, and a head formed on said pin, said spring tending to retain said telescoping member within said tubular member when the contents of said collapsible tube are not being expressed.

1,941,728
TOBACCO STRINGING LATH HOLDER
Emil Wilkenson, Stoughton, Wis.
Application May 14, 1932. Serial No. 611,421
7 Claims. (Cl. 131—21)



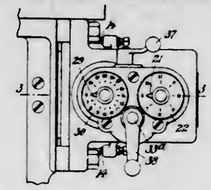
1. A tobacco stringing lath holder comprising a support having an opening to receive one end of a lath, a pivoted locking arm mounted on the support and adapted to engage the lath mounted in the support to hold the lath against movement, pivoted arms mounted on the support and engaging the outer end of the lath holding the outer end of the lath against movement, and means for locking the pivoted arms in their inactive positions.

1,941,729
MAGAZINE ADJUSTING DEVICE FOR TYPOGRAPHICAL COMPOSING MACHINES
Christian Augustus Albrecht, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y., a company of New York
Application May 25, 1932, Serial No. 613,401, and in Germany May 27, 1931
9 Claims. (Cl. 199—20)



1. In a typographical composing machine, the combination of a plurality of magazines, a shaft and a cam thereon operable to adjust the magazines to their respective operative positions, conjointly operable means for actuating the shaft for said adjustment, and a clutch whereby one of said actuating means may be coupled with or disconnected from the shaft at will to permit the operation of the other actuating means singly for effecting the adjustment of the magazines beyond their operative positions.

1,941,730
TRIMMING MECHANISM OF TYPOGRAPHICAL LINE CASTING MACHINES
Christian Augustus Albrecht, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y., a company of New York
Application May 25, 1932, Serial No. 613,402, and in Germany November 26, 1931
11 Claims. (Cl. 199—59)

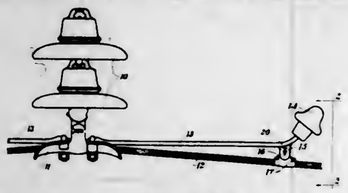


1. In slug-trimming mechanism for typographical line casting machnes the combination with two knives and two slides carrying them with a capacity for said knives to be moved farther from, and nearer to, each other in parallel relationship, of means constantly tending to move at least one of the knives towards the other, and cams opposing said means and capable of adjustment to move the knife or knives from any set position directly to any other set position.

1,941,731
TRANSMISSION LINE
Arthur O. Austin, near Barberton, Ohio, assignor by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application February 29, 1928. Serial No. 258,097
8 Claims. (Cl. 173—251)

1. The combination with a conductor of a support for said conductor, a weighted member adjacent said conductor but spaced therefrom,

means other than said conductor for supporting said member, and energy absorbing means held

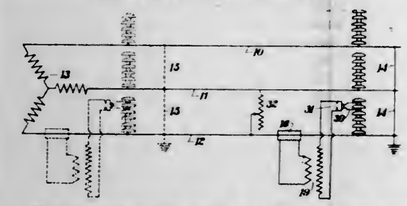


by said weighted member and connected with said conductor for resisting vibration of said conductor relative to said member.

1,941,732
DIVERTING ENERGY FROM TRANSMISSION LINES

Arthur O. Austin, near Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey

Application August 30, 1930. Serial No. 479,009
11 Claims. (Cl. 175—183)
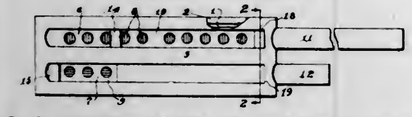


1. The combination with a transmission line, of means for energizing said line with alternating current, means for short-circuiting said line at different distances from said energizing means, and a current transformer adapted to be applied to said line at various positions along the length thereof adjacent the points where the line is short-circuited.

6. The method of testing insulators along a transmission line having a source of alternating current connected therewith comprising the steps or grounding or otherwise shorting the line adjacent the insulator to be tested, applying a current transformer to the line adjacent the point where it is shorted, connecting the secondary of the current transformer to the primary of a step-up potential transformer and applying of a step-age from the secondary of said potential transformer to the insulator part to be tested.

1,941,733
COUNTING AND CALCULATING CARD

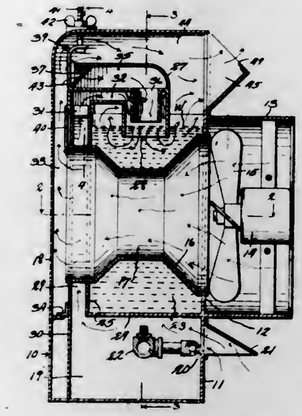
Saul Badanes, Brooklyn, N. Y.
Application November 18, 1932
Serial No. 643,252
3 Claims. (Cl. 35—2)



2. A counting device comprising a backing member, marginal walls upon the backing member, a slotted plate mounted thereon in spaced relation to the backing member, a row of ten dots mounted upon the backing member and visible through the slot of the front plate, said dots being spaced apart and the dots being divided into two groups of five each by a space broader than the spaces between the dots of the groups, a cover member slidable between the backing member and the front plate and being of such relative length as to cover all of the dots in the row and a pointer member slidable between the backing member and the front plate and being of such transverse breadth as to completely conceal one dot only of the row of dots, said cover member being provided at one edge with outstanding flanges adapted to encounter the marginal wall at the end of the slot and limit the sliding movement of said cover member.

1,941,734
AIR CONDITIONER

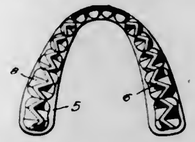
Lee J. Black, Beaumont, Tex.
Application December 22, 1932
Serial No. 648,476
12 Claims. (Cl. 261—121)



1. An air heating unit including a water tank, a heating element therefor, an air passage passing through the tank in one direction, a fan for forcing the air through said passage, hot gas passages passing through the tank at right angles to the air passages and carrying burned combustion gases, a manifold connecting the hot gas passages and discharging to a common outlet, said outlet discharging downward into the water in the tank, and an air inlet admitting air to the manifold and discharging air downward with the hot gases into said water tank.

1,941,735
FALSE TEETH

Harry Chester Berry, Little Rock, Ark.
Application January 6, 1930. Serial No. 418,933
2 Claims. (Cl. 32—9)

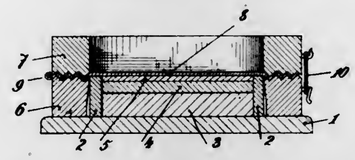


1. In combination, coacting upper and lower dentures, embodying teeth having occlusal surfaces formed with a cutting edge, the cutting edges of the coacting upper and lower dentures extending throughout the lengths of the teeth and disposed in a zig zag line, the zig zag lines of the cutting edges of the upper and lower dentures being offset with respect to each other,

whereby when said surfaces are brought together, the dentures may be actuated laterally and longitudinally in the occlusal plane, without cuspal interference.

1,941,736
PROCESS OF PRODUCING PLASTIC PICTURES FROM METAL FOIL

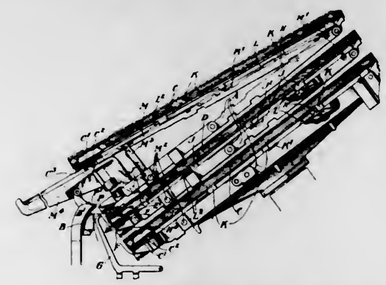
Hubert Bogaerts, Berlin-Halensee, Germany, assignor to Metallrelief G. m. b. H., Berlin, Germany, a corporation of Germany
Application March 14, 1933, Serial No. 660,747, and in Germany March 30, 1932
2 Claims. (Cl. 41—24)



1. The process of producing relief pictures on metal foils, consisting in applying a picture both to the front and rear side of the foil and embossing the foil from the rear side according to the picture thereon, while correcting it from the front side according to the picture applied to this side.

1,941,737
TYPOGRAPHICAL COMPOSING MACHINE

Harold A. Burt, St. Albans, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application May 12, 1932. Serial No. 610,765
20 Claims. (Cl. 199—20)

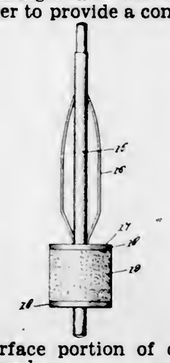


1. In or for a typographical composing machine adapted to be equipped with matrix magazines with or without matrix releasing escapements, a supporting frame common to both kinds of magazines and provided with a bank of escapements to cooperate with a magazine devoid of escapements and also with a bank of escapement actuating elements to cooperate with a magazine carrying escapements.

1,941,738
CORK COVERED SPINDLE

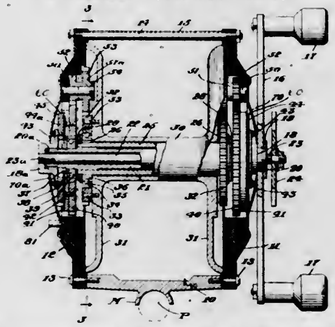
Henry E. Collins, Dunmore, Pa.
Application April 27, 1933. Serial No. 668,290
3 Claims. (Cl. 242—35)

1. A cork covered winder spindle comprising a shaft, a head on one end of the shaft having a peripheral depressed surface portion and integral flanges at opposite ends thereof, and a cork sheet fitted in the depressed surface portion of the head between said flanges and having its free ends brought together to provide a continuous and uninterrupted surface portion of cork at the exterior of said head.



1,941,739
FISHING REEL

Frank Crawford, Lihue, Territory of Hawaii
Application September 28, 1931
Serial No. 565,635
4 Claims. (Cl. 242—84.5)



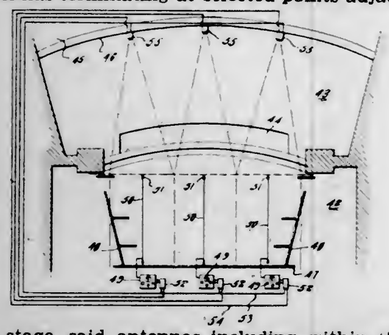
1. A fishing reel comprising a frame, a rotatable bobbin, a hollow shaft in said bobbin and providing a bearing therefor, means on said frame for rotatatively supporting said hollow shaft at each end thereof, first clutch members located at and surrounding each end of said hollow shaft externally of said supporting means and connected to revolve therewith, means on the frame for preventing rotation of said first clutch members in one direction, a hand crank mounted on one said first clutch member whereby to rotate the same, a spindle in said hollow shaft having right and left threaded engagement with said first clutch members, means to rotate said spindle whereby to move said first clutch members toward and from one another, second clutch members rotatably mounted about said hollow shaft for co-operation with said first clutch members, and driving connections between said second clutch members and said bobbin.

1,941,740
APPARATUS FOR PRODUCING THEATRICAL EFFECTS

Paul S. Edwards, Fort Meade, Md., and Constantin D. Barbulesco, Dayton, Ohio
Application October 8, 1929. Serial No. 398,255
2 Claims. (Cl. 250—1)

2. An apparatus for producing theatrical effects comprising a plurality of oscillators, each

having an electronic tube oscillator producing high frequency oscillations modulated at audio frequency, a tank circuit having a low loss coil and a condenser connected between the plate and grid of each oscillator, the oscillator being adapted to be concealed in proximity to a theater stage, open oscillating circuits inductively coupled to the respective tank circuit, including antennas terminating at selected points adjacent



the stage, said antennas including within their zones of action the area traversed by an actor and being adapted to change in capacity upon the approach or recession of the actor with respect to the zones and lamps controlled by relays connected in the plate circuits of the different oscillators for projecting light rays on the actor entering the zones of the antennae and successively upon entering the field surrounding another of the antennas.

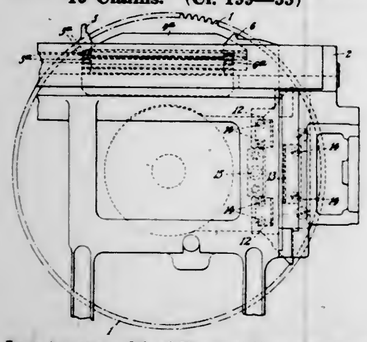
1,941,741

TYPOGRAPHICAL LINE-CASTING MACHINE

Eric Gayter, Altrincham, England, assignor to Linotype and Machinery Limited, London, England, a company of England

Application August 31, 1931, Serial No. 560,305, and in Great Britain September 25, 1930

10 Claims. (Cl. 199—55)



1. In a typographical line-casting machine, the combination with a casting mould movable forwardly and rearwardly relatively to a matrix-holding vise and slug trimming knives, and having walls comprised of relatively fixed sections and sections which are slidable inwards towards and outwards from each other, of ribs and grooves on the slidable sections and vise jaws and knives, which mutually engage one with another when the casting mould is advanced, so that both of the slidable sections are simultaneously moved positively towards each other by such mutual engagement of the ribs and grooves on the sections and vise jaws when the mould is advanced at the casting position and simultaneously moved positively outwards from each other by such mutual engagement of the ribs and grooves on the sections and knives when the mould is advanced at the slug-ejecting position.

1,941,742

LOUVER-TYPE RADIATOR GRILLE

Lee B. Green, Lakewood, Ohio, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio, a corporation of Ohio

Application December 14, 1932

Serial No. 647,230

22 Claims. (Cl. 293—54)



1. A louver for a grille or the like comprising a generally U-sectioned louver blade presenting a closed back, two webs extending forwardly from the said back, portions of the said webs near the free edges of the latter being bent away from each other, and a longitudinally slitted tube snapped over the said bent away portions of the blade to latch the tube to the blade and to close the opening between the free edges of the said webs.

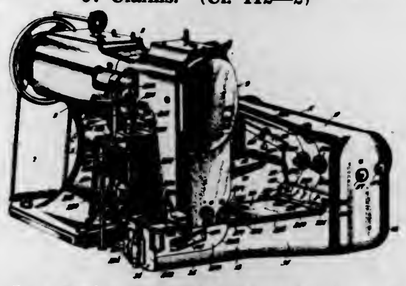
1,941,743

SEWING MACHINE

Horace F. Gruman, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine

Application January 31, 1931. Serial No. 512,661

67 Claims. (Cl. 112—2)



1. In a sewing machine, the combination with a frame including an overhanging arm having a stitching head at its outer end and a tubular work arm having its free end disposed under said stitching head; of a complete upper stitch forming mechanism including a reciprocatory needle and a cooperating loop taker carried by said head and operating above the work arm; and a complete lower stitch forming mechanism including

a reciprocatory needle and a cooperating loop taker carried by said work arm and operating in front of the upper stitch forming mechanism.

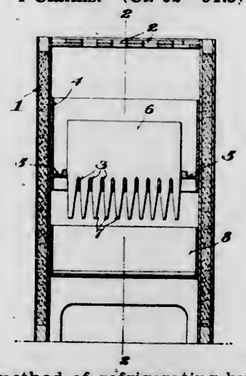
1,941,744

REFRIGERATION WITH SOLID CARBON DIOXIDE

Frank Heywood, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application January 25, 1933, Serial No. 653,534, and in Great Britain January 29, 1932

4 Claims. (Cl. 62—91.5)



4. The method of refrigerating by means of a chilled current of air and carbon dioxide, the latter furnished by a block of solid carbon dioxide evaporating into the former at a substantially uniform rate which comprises supporting the block on a plurality of spaced horizontal transverse bars having sharp-edged tops and bases of substantial width, said bars being composed of metal of high heat conductivity and being adapted to melt their way through said block, and passing air to furnish the chilled current above and around said block in down draft and through the spaces under the bases of the bars and, thereby, between dependent unmelted slabs of dioxide passing through the interbar space.

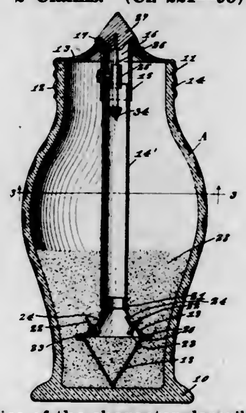
1,941,745

MEASURING DISPENSING BOWL OR RECEPTACLE

Warren Leland Higley, Tampa, Fla.

Application December 7, 1932. Serial No. 646,187

2 Claims. (Cl. 221—98)



1. A device of the character described comprising a container adapted to contain a dispensing substance, a cap on the container and having a central dispensing column opening therethrough, a measuring trap arranged within the container and communicating with the column and said container, a head on the outer end of the column and having a dispensing opening, a shutter controlling said opening, and a turning knob fitted with the head and carrying the shutter for the manual operation thereof.

1,941,746

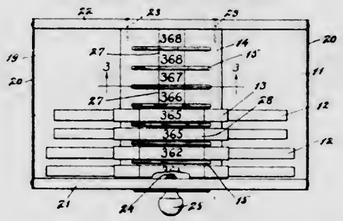
STOCK RECEPTACLE

Matthew E. Hill, Atlanta, Ga., assignor to The Holfast Rubber Company, Atlanta, Ga., a corporation of Georgia

Application September 30, 1930

Serial No. 485,480

6 Claims. (Cl. 206—72)



1. A fan-belt merchandising unit comprising a receptacle accessible for vision from the top and including a plurality of compartments for holding the belts individually exposed to view from the top, each compartment having on its bottom an indicium identifying the belt which belongs there and so located as to be concealed by the belt when the latter is in place and exposed to view when said belt is removed, together with a series of fan belts each set edgewise in one of said compartments and each bearing on its top edge the same indicium as the compartment which it occupies.

1,941,747

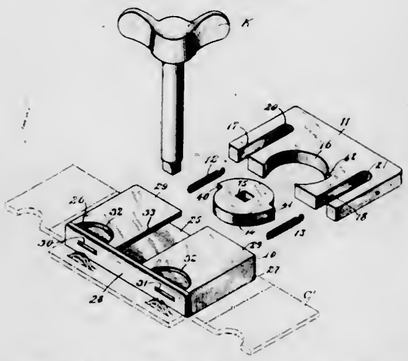
PRINTER'S QUOIN

Samuel Holt, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York

Application December 29, 1931

Serial No. 583,692

3 Claims. (Cl. 254—40)



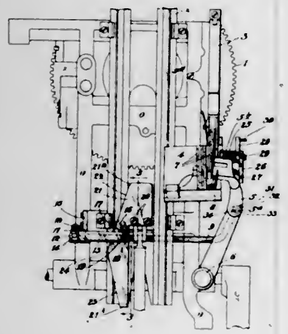
1. In or for a printer's galley, a locking quoin comprising a member formed by stamping a

blank from a sheet of material and folding the blank to form a box-like housing, a member stamped from another piece of material and adapted to fit within the other member, a pair of coil springs attached at opposite ends to said members and tending to draw them together, an eccentric located between the two members and adapted to be actuated to force the inner member outwardly against the action of the springs, said box-like housing having top and bottom walls, end walls, and a rear wall, the rear wall having eyelets formed therein near its opposite ends and adapted to anchor the rear ends of the springs, and the top wall having openings formed therein above the eyelets to facilitate the attachment and detachment of the springs and eyelets.

1,941,748
SLUG CASTING MACHINE

Samuel Holt, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York

Application July 18, 1932. Serial No. 623,141
18 Claims. (Cl. 199—61)



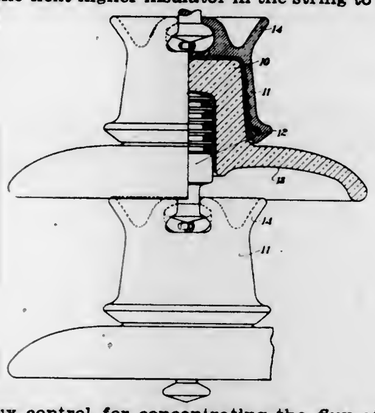
1. In or for a slug casting machine equipped with a movable line transporter and having a galley to receive and hold a column of slugs, the combination of a reciprocable device for stacking the slugs in the galley, and means actuated by the line transporter for operating said stacking device, said means acting in response to the movement of the transporter in one direction only to effect a complete reciprocation of the stacking device.

1,941,749
INSULATOR

William A. Hillebrand, Barberton, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey

Application July 29, 1932. Serial No. 626,062
4 Claims. (Cl. 173—318)

2. An insulator string comprising a plurality of units connected in series, each unit comprising a dielectric member having a radially extending flange with a smooth lower surface, a cap secured to said dielectric member at one side thereof and a pin secured to said dielectric member at the opposite side thereof, said cap having a peripheral ring projecting upwardly from the upper shoulder portion of said cap and extending toward the smooth lower surface of the flange on the next higher insulator in the string to form



a flux control for concentrating the flux at the periphery of said ring.

1,941,750
METHOD OF THERMICALLY COATING OBJECTS OF IRON OR STEEL WITH ALUMINUM OR ALUMINUM ALLOY

Erik Harry Eugen Johansson, Stockholm, Sweden

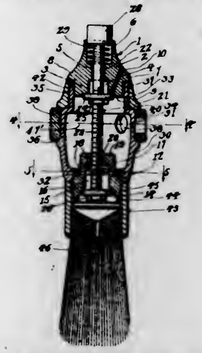
No Drawing. Application January 12, 1931, Serial No. 508,378, and in Sweden February 17, 1930
5 Claims. (Cl. 91—70.2)

1. The method of plating ferrous objects with aluminum or alloy containing aluminum as the principal constituent, which comprises cleaning the object to remove fatty substances, oxides and slag, immersing the object in a molten flux bath which contains calcium chloride, an alkali chloride, zinc chloride and an alkali aluminum fluoride, heating the flux bath, and transferring the object to the metal bath the temperature of which is about the melting point of the metal, the heating of the flux bath being carried to such a degree that the transferring of the object from the flux bath to the metal bath can be carried out without having the temperature of the object fall below the melting point of the metal bath.

1,941,751
FOUNTAIN BRUSH

Giacomo Lupo, Brooklyn, N. Y., assignor of one-tenth to Pasquale Cantalupo, Brooklyn, N. Y.

Application June 4, 1932. Serial No. 615,450
7 Claims. (Cl. 221—94)

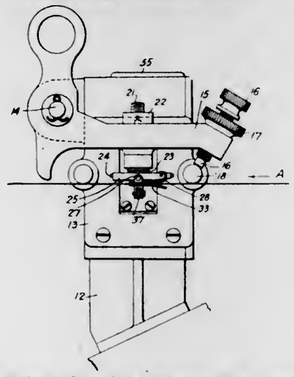


1. In a fountain brush, a structure providing a reservoir and a supply intake opening for the latter, said structure including an air inlet for the reservoir, a material discharge outlet for the reservoir and intermediate its ends, a peripherally arranged circumferentially shiftable band for normally closing said intake, said band being provided with an opening for registry with said intake to form a channel for removably receiving the spout of a container carrying material to be supplied to the reservoir, and spring controlled means mounted axially of said structure and common to said air inlet and discharge outlet for normally and simultaneously closing them.

1,941,752
APPARATUS FOR USE IN OR IN CONJUNCTION WITH CIGARETTE MAKING MACHINES

Charles Oliver, Chislehurst, England, assignor to Oliver Peli Control Limited, Woolwich, England, an English limited-liability company

Application March 31, 1930, Serial No. 440,453, and in Great Britain April 26, 1929
12 Claims. (Cl. 93—77)

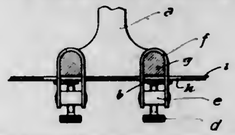


1. Apparatus for indicating the passage of lapped paper to a cigarette making machine comprising co-operating jaws having flattened faces between which the paper web is passed, at least one of said jaws being built up of a plurality of members capable of some relative movement one to another such that the movement of one of said members due to the passage of a local thickening in the paper web produces a lessened effect on the net relative movement between said jaws proportional to the number of relatively movable members employed and mechanism operating in accordance with such net relative movement between the jaws and adapted to actuate indicating means upon the passage of an overlap in the paper web extending across all or most of said relatively movable members.

1,941,753
HOLDER FOR MICROSCOPES

Heinrich Plies, Wetzlar, Germany, assignor to Ernst Leitz, Optische Werke, G. m. b. H., Wetzlar, Germany

Application October 7, 1932, Serial No. 636,645, and in Germany October 15, 1931
1 Claim. (Cl. 248—16.5)

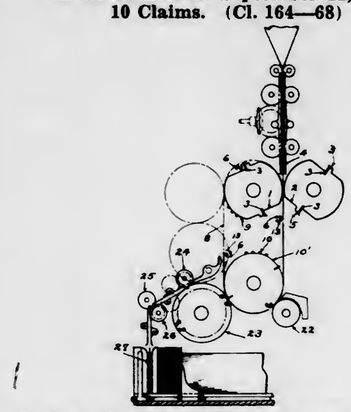


A holder for microscopes including their feet, comprising loops of yielding material guided about the feet of said microscope and through openings in a support to the underside thereof, lugs keeping the ends of said loops spaced below said support, longitudinally extending guides on the underside of said support pivoted thereto at one end, and clamping screws extending through said lugs engaging the inner ends of said guides

1,941,754
WEB CUTTING AND SHEET FORWARDING MECHANISM

Cecil George Quick, Eltham, London, and William Arnold Whitehead, Southall, England, assignors to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York; Irving Trust Company, receiver

Application May 13, 1930, Serial No. 451,955, and in Great Britain September 11, 1929
10 Claims. (Cl. 164—68)

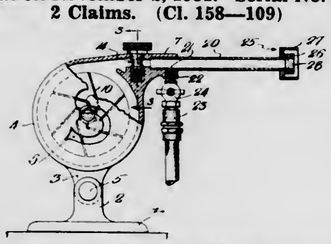


5. In a web cutting and sheet forwarding mechanism for use with a printing machine, a cutting mechanism, a traveling endless flexible member, a plurality of pressure bars secured to said member, spindles on the pressure bars, grippers on the spindles, a guide co-extensive with the flexible member, rollers connected to the member and adapted to follow said guide, other rollers mounted on arms carried by the spindles, a second endless guide engaged by said other rollers and having a cam portion adapted to rock the spindles to move the grippers into operative position.

1,941,755
BLOW TORCH

Frederick T. Potter, Newton, Mass., assignor to Stark Tool Company, Waltham, Mass., a corporation of Massachusetts

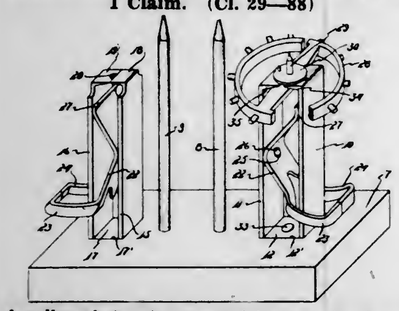
Application November 2, 1931. Serial No. 572,499
2 Claims. (Cl. 158—109)



1. A portable, self-contained blow torch, comprising a substantially cylindrical casing having an air intake in one end, and a tangentially disposed discharge duct on its periphery, a centrif-

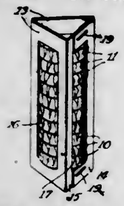
ugal fan within said casing, an electric motor for driving said fan mounted on the opposite end of said casing, a valve in said discharge duct for regulating the air flow therethrough, a gas supply pipe communicating with said discharge duct intermediate said valve and the outer end of the duct, said supply pipe being arranged to deliver gas into said duct at substantially right angles to the line of travel of air therethrough, a valve in said pipe for regulating the gas flow therethrough, an elongate burner nozzle rigidly secured to said casing in axial alignment with said discharge duct, said nozzle constituting a mixing chamber for the gas and air, and a pilot tip comprising radially spaced concentric flanges defining an annular recess therebetween, the inner flange adjoining the end of the nozzle and having a plurality of circumferentially spaced apertures providing a communication between the nozzle and said annular recess.

1,941,756
ROLLER ABSTRACTOR
George F. Putnam, Goodrich, Mich.
Application July 30, 1932. Serial No. 626,867
1 Claim. (Cl. 29—88)



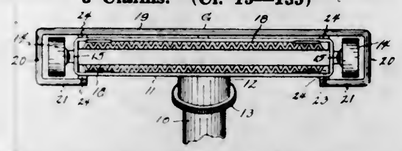
A roller abstractor comprising a pair of spaced parallel resilient supporting legs; an inwardly directed platform forming portion on the end of each of said legs; a stud projecting inwardly from the inner face of one of said legs intermediate its ends; a bow shaped spreader member positioned between said legs and having an opening formed at its bow for reception of said stud, said opening being sufficiently large for permitting rocking of said member on said stud, one end of said member engaging the inner face of the leg opposite to said stud bearing leg; and gripping means projecting outwardly beyond the outer surface of said engaged leg.

1,941,757
DISPLAY HOLDER OR PACKAGE
Clarence Dickinson Reed, Chicago, Ill., assignor to Reed Candy Company, Chicago, Ill., a corporation of Illinois
Application March 11, 1932. Serial No. 598,136
11 Claims. (Cl. 206—46)



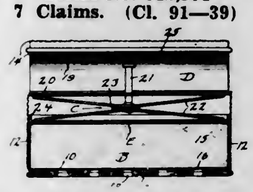
1. An open-ended, tubular, display holder for a stack of disk-like articles or tablets having rectangular openings in its sides and adapted to be folded about the stack of articles with the edges of the latter projecting through said openings and the end articles of the stack engaging the ends of the openings.

1,941,758
SUCTION CLEANER
Frederick Riebel, Jr., Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application March 17, 1932. Serial No. 599,535
3 Claims. (Cl. 15—155)



1. In combination with a suction cleaner including a transversely positioned nozzle, spring mountings attached to the lateral ends of the nozzle and having arcuately movable wheel carrying parts projecting therebeyond, and floor wheels journalled upon the projecting portions of said mountings; a guard attached to the floor tool, extending completely around said wheels in a horizontal plane intersecting said wheels, spaced closely adjacent the peripheries of said wheels, and spaced more distantly from the end faces of said wheels.

1,941,759
APPLICATOR
Frederick Riebel, Jr., and Dewey M. Dow, Toledo, Ohio, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application November 12, 1932
Serial No. 642,364
7 Claims. (Cl. 91—39)

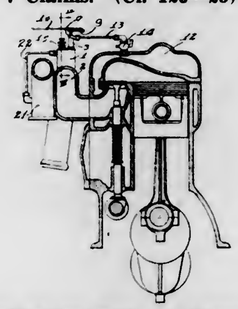


1. In a surfacing material applicator, a renewable cartridge of the material comprising a flexible container in which the material is enclosed, a flexible open top casing receiving said cartridge and having a perforated distributing face, opposed side walls of said casing being extended to form flaps, means for detachably securing the flaps together, and resiliently expansible distending means compressed between said flaps and the cartridge.

1,941,760
METHOD OF PRODUCING VALUABLE PRODUCTS FROM VEGETABLE SUBSTANCES
Erik Ludvig Rinman, Djursholm, Sweden
No Drawing. Application June 30, 1930, Serial No. 465,068, and in Sweden May 26, 1930
8 Claims. (Cl. 202—34)

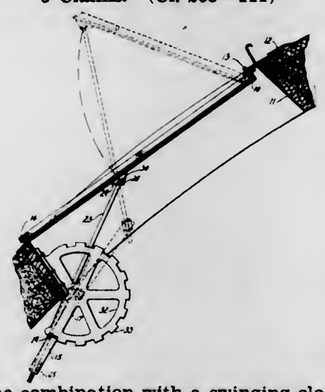
1. The method of producing valuable products from raw cellulosic vegetable substances, which comprises digesting the vegetable substances with an aqueous solution of barium hydroxide at an elevated temperature and pressure so that said substances are substantially all completely decomposed and form compounds with said hydroxide, adding to the solution obtained by the digestion a quantity of barium oxide so as to cause a reaction between said barium oxide and the water in the solution, whereby heat is generated, thereby driving off water from the solution, and subjecting the residue to dry distillation.

1,941,761
VAPORIZER FOR INTERNAL COMBUSTION ENGINES
Fred H. Roth, Chicago, Ill.
Application May 20, 1931. Serial No. 538,778
7 Claims. (Cl. 123—25)



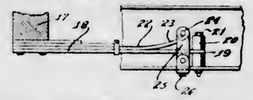
1. In combination with an internal combustion engine including its exhaust and intake manifolds and fuel throttle means, means mounted on the exhaust manifold to derive heat therefrom and affording a vaporizing chamber, a water inlet to said means, an air inlet thereto, a vapor outlet therefrom, a metering valve for the water inlet, means for controlling said metering valve from the fuel throttle means, a thermostatic valve in the water inlet between the chamber and said metering valve, a manually operated valve for controlling the air inlet, a thermostatic valve in the air inlet, means connecting the chamber with a water supply, and means for conducting vapor produced in the chamber to the engine intake manifold.

1,941,762
WINDOW AND DOOR ADJUSTING AND HOLDING MECHANISM
John G. Shodron, John B. Olson, and Carl S. Wandschneider, Fort Atkinson, Wis., assignors to James Manufacturing Company, Fort Atkinson, Wis.
Application April 28, 1930. Serial No. 447,865
6 Claims. (Cl. 268—111)



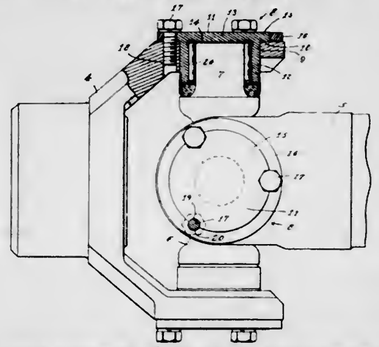
1. The combination with a swinging closure of window or door type, of a relatively fixed support, a set of cranks pivoted thereto and respectively linked to the middle portions of the sides of the closure a resilient cross bar connecting, said cranks with each other for simultaneous operation, a toothed sector secured to the frame opposite the middle portion of said bar and adapted to normally receive the bar between its teeth for locking the cranks in various positions of adjustment to hold the closure in corresponding positions of open or closed adjustment.

1,941,763
TORQUE STABILIZER SPRING
Benjamin A. Swennes, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 29, 1932
Serial No. 635,399
7 Claims. (Cl. 248—14.2)



1. A torque stabilizer for power plant units pivotally mounted relative to a support, comprising a yielding member connected between the power plant unit and the support, said yielding member being adapted to yieldingly permit pivotal movements of the power plant unit in proportion to the energizing force causing such movements, and means associated with said yielding member adapted to build up disproportionately increasing resistance in response to increased pivotal movements whereby to provide a predetermined limiting position for abnormal pivotal forces.

1,941,764
UNIVERSAL JOINT
Carl E. Swenson, Rockford, Ill., assignor to Mechanics Universal Joint Company, Rockford, Ill., a corporation of Illinois
Application July 25, 1932. Serial No. 624,599
15 Claims. (Cl. 64—102)



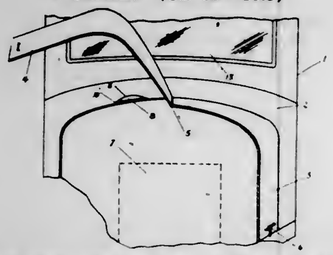
1. In a universal joint of the trunnion type, a trunnion bearing comprising a cap fitting in an opening in one of the members of the joint to furnish radial bearing support for the trunnion by its side walls and end thrust bearing support for the trunnion by its end wall, said cap being turned from bar stock of a predetermined diameter, whereby to provide an annular outwardly projecting flange of said diameter to seat on the joint member, a ring encircling the flange to form an extension thereof, and bolts entered in openings provided in the flange with the heads over-

lying both the ring and flange to fasten the parts in place on the joint member, whereby the bolts serve the principal function of clamping the bearing cap by its flange, and the ring offers lateral support for the bolts when tightened and prevents deflection thereof from normal position.

1,941,765
WINDSHIELD WARMER

Archie D. Taggart, Cement City, Mich., assignor of one-third to Berry N. Beaman and one-third to John H. Erickson, both of Jackson, Mich.

Application December 21, 1931
Serial No. 582,332
7 Claims. (Cl. 20—40.5)

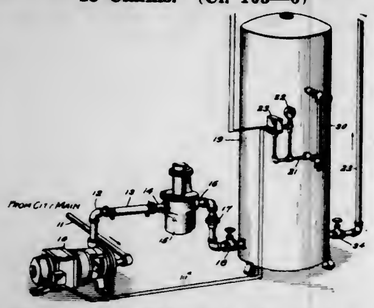


1. The combination with a vehicle having a windshield, an engine, a hood and a cowl; of means loosely inserted and entirely confined between said hood and said cowl, said means being frictionally held between said hood and said cowl and deflecting said hood to provide a vent whereby heated air from said engine is impinged against said windshield for the purpose described.

1,941,766
PNEUMATIC WATER SYSTEM

George L. Thom, Chicago, Ill., assignor to Chicago Pump Company, Chicago, Ill., a corporation of Illinois

Application June 23, 1932. Serial No. 618,898
18 Claims. (Cl. 103—6)



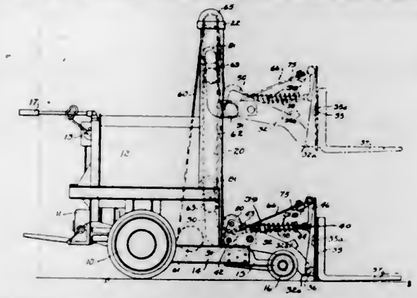
1. In a system of the class described, in combination, a liquid container, a centrifugal liquid pump supplying liquid to said container and a fluid injecting device for injecting fluid into said container, said fluid injecting device having a pipe connection with the liquid pump and being actuated by pressure set up by said liquid pump.

1,941,767
INDUSTRIAL TRUCK

Morris S. Towson, Shaker Heights, Ohio, assignor to The Elwell Parker Electric Company, Cleveland, Ohio, a corporation of Ohio

Application December 3, 1927. Serial No. 237,414
14 Claims. (Cl. 187—11)

1. In an industrial truck of the character described, the combination of a load elevating means and a tilting means movable relative thereto, means for raising both the said means, said raising means being connected to the tilting means in such manner that the tilting means is

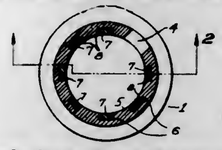


tilted consequent upon such raising operation and resilient means tending to maintain the tilting means in a normally horizontal load supporting position.

1,941,768
BEARING

Albert Vigne, St. Louis, Mo., assignor to National Bearing Metals Corporation, St. Louis, Mo., a corporation of New York

Application September 30, 1929
Serial No. 396,131
4 Claims. (Cl. 308—239)

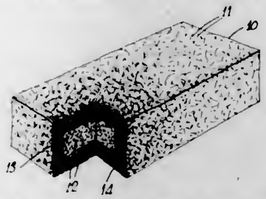


1. An annularly continuous journal-bearing of comparatively hard metal and provided with groove means in its internal journal-engaging surface, the opposing edges of said groove means being free throughout their length to approach and recede from one another in response to local change in temperature independently of the general expansion and contraction of the entire bearing, and metal softer than the body of the bearing filling said groove means flush with the said internal surface of the bearing.

1,941,769
IMPREGNATED FIBROUS BLOCK

Gilbert J. Ward, Brooklyn, N. Y., assignor to Cheesman-Elliot Co. Inc., Brooklyn, N. Y., a corporation of New York

Application January 22, 1930. Serial No. 422,523
3 Claims. (Cl. 154—44)

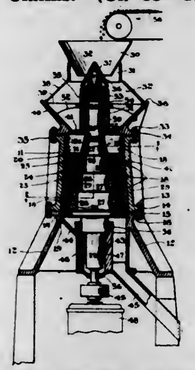


1. A heat and sound insulating fibrous board or block which comprises a compacted, loosely-associated fibrous material, such as "Celotex" or the like, the exterior faces of said board or block being substantially uniformly impregnated from the surface thereof to a substantial depth with a relatively hard asphalt or the like material in a manner to leave substantially unchanged the texture of the original surface and to leave an unimpregnated inner portion shielded by said impregnated portion.

1,941,770
CRUSHER

Hubert G. Welsford and Andrew N. Russell, Montreal, Quebec, Canada

Application March 17, 1931. Serial No. 523,216
2 Claims. (Cl. 83—46)



1. A centrifugal crusher comprising a stationary upright shell, a vertical shaft passing centrally through the shell and mounted to rotate in suitable bearings, the portion of the shaft surrounded by the shell being stepped to present a vertical series of cylindrical sections of different diameters, each section being of uniform diameter throughout its length and of a diameter slightly smaller than that of the next lower section, a closely fitting ring surrounding each of said cylindrical sections, each ring being made of gradual decreasing diameter towards its lower end so that its outer surface forms a symmetrical continuation of the corresponding surface of the ring next above so that the several rings form a plug of frusto-conical construction, the outer surfaces of said rings being also corrugated to afford alternating ridges and valleys extending lengthwise of the plug.

1,941,771
PRODUCTION OF DIBENZANTHRONE

Herbert J. West, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application August 2, 1929
Serial No. 383,166
10 Claims. (Cl. 260—61)

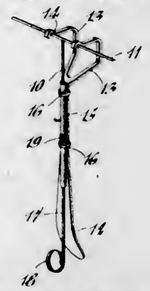
1. In a method for the production of dibenzanthrones by alkali fusion processes, the improvement which comprises adding oxidizing agents to the melt before dissolving it in water.

1,941,772
SOLDERING JIG

Reginald V. Williams, Buffalo, N. Y.

Application June 1, 1932. Serial No. 614,798
4 Claims. (Cl. 113—99)

1. A soldering jig of the character described, comprising a handle terminating at its outer end in laterally-deflected, bifurcated portion having laterally-spaced, substantially hook-shaped arms, the free ends of said arms having inwardly-facing seats disposed approximately in the plane of the handle for supporting a wire at substan-

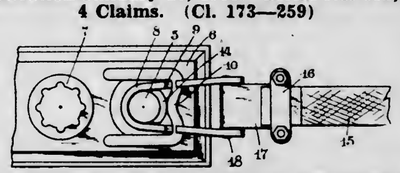


tially right angles to the length of said handle, and wire holding means applied to said handle in parallel relation thereto.

1,941,773
ELECTRIC BATTERY CONNECTION

William H. Wright, Columbus, Ohio

Application January 17, 1933. Serial No. 652,175
4 Claims. (Cl. 173—259)

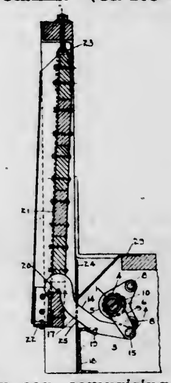


1. A battery terminal connector including a yoke member to receive a conductor, said yoke member having a bent portion to contact with one side of said terminal, the legs of said yoke member having slot bearings, a removable shim between said legs to contact with the opposite side of said terminal, and a bent wire cam member fulcrumed in said bearing and removable laterally therefrom and adapted to thrust said shim into contact with the opposite side of said terminal.

1,941,774
DUMP CAR

Winfield Hancock Yost, Montreal, Quebec, Canada

Application September 4, 1931. Serial No. 561,207
15 Claims. (Cl. 105—299)



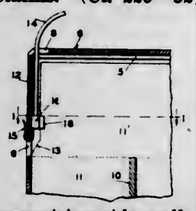
1. In a dump car, comprising a side door, a horizontal floor, a side sill below said door, transverse members below said floor, an operating

shaft passing through said transverse members, a crank mounted upon said shaft and a reciprocating member operatively connected to said crank for locking said door, said reciprocating member adapted to disengage from said door when in open position.

1,941,775
CARTON

Vertrees Young, St. Louis, Mo., assignor to Robert Gaylord, Incorporated, St. Louis, Mo., a corporation of Missouri

Application April 5, 1933. Serial No. 664,464
4 Claims. (Cl. 229—52)

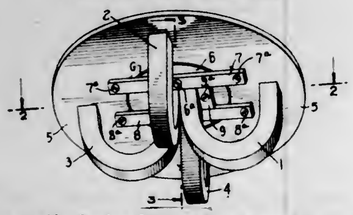


1. A carton comprising side walls and a top, a handle having hooks on its ends, said top being provided with openings for the insertion of the ends of said handle, said side walls being provided with openings for engagement with the hooks on the handle, and a partition wall in said carton, said wall forming guiding means for directing the handle ends in their passage from the openings in the top to the side wall openings.

1,941,776
SOUND UNIT

Alexander I. Abrahams, New York, N. Y.

Application September 24, 1931
Serial No. 564,810
1 Claim. (Cl. 175—339)



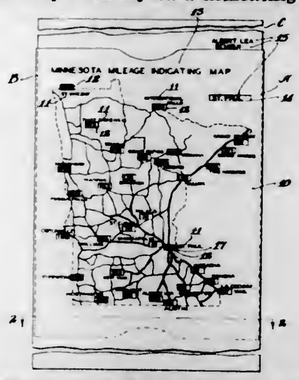
A magnetic device for use in a sound unit, comprising an inner pole piece and an outer pole piece, magnets having separated ends and disposed so that their ends of like polarity are adjacent each other, clamping bars connected to both of said pole pieces, and additional clamping bars connected only to the inner pole piece, said clamping bars engaging the lateral surfaces of the adjacent ends of said magnets, so that said adjacent ends are held against said inner pole piece and the other ends of said magnets are held against said outer pole piece.

1,941,777
INDICATOR MAP

Clifford J. Amos, St. Paul, Minn., assignor of one-half to Jerome J. Crowley, St. Paul, Minn.

Application April 18, 1931. Serial No. 531,233
8 Claims. (Cl. 35—6)

1. An indicating map comprising, a display sheet having a map thereon to illustrate a series of towns and cities, indicating windows one adjacent each town and city, and a key indicating window, and a slidable member associated with said map having indicia thereon to indicate towns and cities through said key indicating window, and rows of figures on said slidable member adapted to indicate miles through said windows at each town and city whereby said indicating map will



indicate the number of miles from the city or town shown in said key indicating window to all of the other cities and towns having windows associated therewith.

1,941,778
METHOD OF AND APPARATUS FOR MAKING GLASS

Walter O. Amsler, Toledo, Ohio, assignor to Simplex Engineering Company, Washington, Pa., a corporation of Delaware

Application July 28, 1931. Serial No. 553,531
8 Claims. (Cl. 49—54)



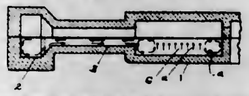
1. A continuous glass making furnace having a melting compartment and a refining compartment, a neck of lesser width than either of said compartments therebetween, said neck having a depth equal to that of one of said compartments, and means for creating and maintaining a predetermined area in the glass in the melting compartment immediately behind the entrance to said neck at a higher temperature than any other parts of the furnace.

5. The method of making glass in a tank having a melting chamber and a cooling chamber separated by a reduced neck permitting a full depth flow of glass therethrough, which comprises maintaining a maximum temperature on the glass in the melting chamber at a point adjacent the end of the neck.

1,941,779
GLASS TANK

Walter O. Amsler, Toledo, Ohio, assignor to Simplex Engineering Company, Washington, Pa., a corporation of Delaware

Application May 5, 1932. Serial No. 609,390
5 Claims. (Cl. 49—54)



1. A glass tank adapted to contain a body of molten glass with continuous surface at uniform

level throughout all its extent and including a melting compartment, a working compartment, and a channel connecting the two said compartments, the channel being of less depth than the two said compartments, of a cross-sectional area not greater than one fourth of that of the melting compartment and of a length responsive to the formula

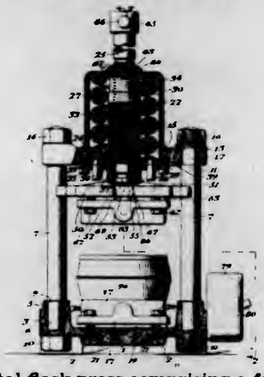
$$\frac{Qs+Qr-Qd}{n}$$

in which Qs represents the net sensible heat carried into the channels by the glass flowing from the melting compartment, Qr represents the heat radiated into the channel from the melting compartment, Qd represents the heat in the glass drawn from the working compartment, and n represents the heat loss per lineal foot of the channel.

1,941,780
DENTAL FLASK PRESS

Robert C. Angell, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania

Application January 25, 1933. Serial No. 653,435
4 Claims. (Cl. 18—33)



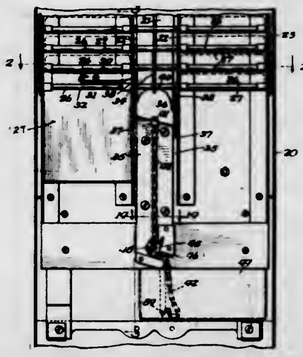
1. A dental flask press comprising a frame having a mounting for an actuating screw-shaft, an electrically heated flask supporting platen on said frame, a screw-threaded-shaft rotatable in said mounting, a nut having a flange and a sleeve in threaded engagement with said shaft, a spring embracing said sleeve and having one end bearing against said frame and the other end bearing against said flange and tending to thrust said nut toward said platen, a retainer for said nut limiting its spring pressed movement, and an electrically heated platen carried by said shaft and axially movable therewith to press a flask, such pressure being gradually increased by relative axial movement of said nut on said shaft to effect compression of said spring.

1,941,781
VENDING MACHINE

Alfred D. Antoine, Chicago, and Albert E. Gebert, Wilmette, Ill., assignors to Advance Machine Company, Chicago, Ill., a corporation of Illinois

Application September 23, 1930
Serial No. 483,863.
19 Claims. (Cl. 194—2)

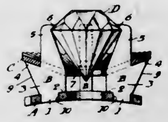
1. In a vending machine a plurality of article holders mounted for shifting movement, locking means for restraining said holders against such movement, a releasing member for successively rendering said locking means inactive to permit the respective holders to be shifted, flexible means for advancing said releasing member, coin controlled mechanism for controlling the actuation of said releasing member, and means to which one end of said flexible means is connected, for controlling said coin controlled mechanism.



1,941,782
REFLECTING BASE JEWEL MOUNTING

Ernest Bager, Chicago, Ill., assignor to J. Milhening, Inc., Chicago, Ill., a corporation of Illinois

Application March 22, 1933. Serial No. 662,046
3 Claims. (Cl. 63—27)

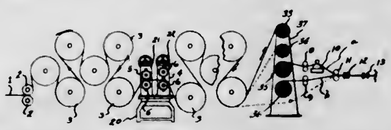


1. An article having a jewel mounting, comprising upstanding posts mounted directly upon the article and grouped to define a jewel space and having jewel embracing prongs at their upper ends, upwardly presented base supporting brackets projecting radially outward from intermediate points on said posts, and a disk-like strutting base carried by said posts and having a continuous outer portion through which it seats upon said brackets and radial slots through which it embraces said posts radially and laterally.

1,941,783
INDENTING PAPER

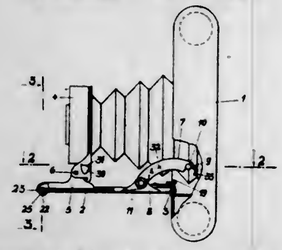
Charles A. Bahr, Marion, Ind., assignor to William H. Ellis, Jr., Glendale, Ohio

Application July 8, 1932. Serial No. 621,442
12 Claims. (Cl. 92—68)



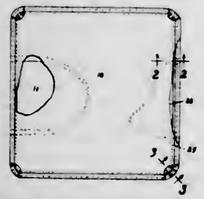
1. In combination, dryer mechanism and indenting mechanism, said indenting mechanism comprising a plurality of indented pattern forming elements selectively applicable to a sheet of paper passing through said mechanisms.

1,941,784
PHOTOGRAPHIC CAMERA
Árpád Barényi, Berlin-Lichterfelde, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Brunswick, Germany, a joint-stock company of Germany
Application July 8, 1932, Serial No. 621,359, and in Germany August 4, 1931
8 Claims. (Cl. 95—40)



1. A photographic camera, comprising a body, a bed hinged to said body, a releasable member for holding said bed in projected position, said member bearing an outstanding abutment having a surface extending in a plane oblique to the direction in which the lens front is shifted, and a lens front shiftable upon said bed, the parts so arranged that manual pressure exerted on the lens front and driving it inward to collapsed position, brought to bear upon such inclined surface, throws the said member out of position for holding the bed in projected position.

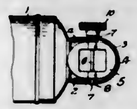
1,941,785
CUSHION CONSTRUCTION
Frederick Lee Brown, Greenfield, Ohio, assignor to The American Pad and Textile Company, Greenfield, Ohio, a corporation of Ohio
Application May 20, 1931. Serial No. 538,711
6 Claims. (Cl. 9—17)



1. In a cushion construction the combination of a pair of cover halves of relatively heavy fabric secured together to form a cushion casing, said halves having rounded corners, each corner of each cover half having opposed tucks on opposite sides of its center, and uniform filling of fibrous material for the cushion, holding said cushion in box like shape, said tucked portions of the cover halves protecting the stuffing in the corners of the cushion against undue compacting and holding said fibrous stuffing material against movement out of said corner.

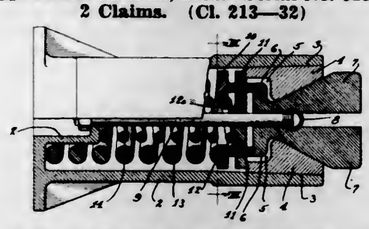
1,941,786
PORTABLE HAND TOOTHPOWDER DISPENSER
Albert Carley, Alfred Schmidt, and Karl Wunsch, Bridgeport, Conn.
Application October 21, 1932. Serial No. 638,860
3 Claims. (Cl. 221—66)

1. A portable hand toothpowder dispenser, comprising a powder container having a reduced neck at its outer end, a nozzle secured on said neck and having a single slot-like discharge opening, an agitator rotatively journaled within said nozzle in proximity to said opening, and a wheel rigidly mounted on said journal outside



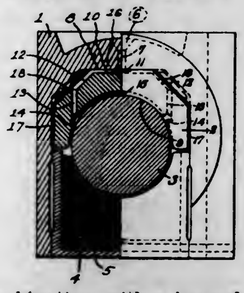
said nozzle, whereby the container may be held in one hand and said wheel operated by the thumb to discharge the powder on a toothbrush, held in the other hand, along the brush and within the confines thereof.

1,941,787
DRAFT GEAR
Leverett M. Clark, Depew, N. Y., assignor to Waugh Equipment Company, Depew, N. Y., a corporation of Maine
Application June 22, 1932. Serial No. 618,633
2 Claims. (Cl. 213—32)



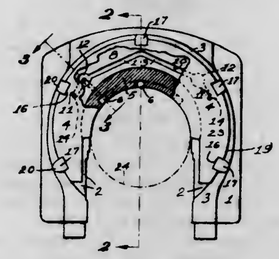
1. In a draft gear, a casing, a pair of side wedges in said casing, center wedges between said side wedges, a follower engaging said side wedges, a coil spring engaging said follower, a second follower having lugs extending through said first mentioned follower for engaging said center wedges and a coil spring having greater resistance than said first mentioned spring acting upon said second follower.

1,941,788
BEARING
Samuel W. Crawford, St. Louis, Mo., assignor to National Bearing Metals Corporation, St. Louis, Mo., a corporation of New York
Application April 27, 1929. Serial No. 358,568
6 Claims. (Cl. 308—81)



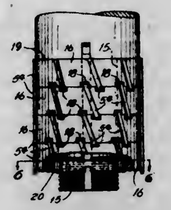
1. The combination, with a journal, of a journal-bearing embodying an outer structure and a bearing member positioned therein so as to be unrestrained against expansion or contraction in response to change in temperature, the said member having a greater coefficient of expansion than the journal, and the bearing being provided with a passageway for lubricant that discharges under a lateral portion only of the journal-engaging face of the said member, the arrangement being such that the said lateral portion of the journal-engaging face of the said member recedes from the journal as the temperature rises and approaches the journal as the temperature falls, thereby automatically regulating the flow of lubricant into the interstice between the journal and the bearing, so as to prevent overheating or waste of lubricant, said lateral portion closely fitting the journal at moderate temperatures to prevent waste of lubricant.

1,941,789
BEARING
Samuel W. Crawford, St. Louis, Mo., assignor to National Bearing Metals Corporation, St. Louis, Mo., a corporation of New York
Application July 28, 1930. Serial No. 471,240
9 Claims. (Cl. 308—79)



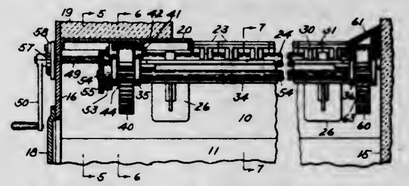
1. A thrust bearing including a body and a wear-receiving plate thereon having a series of notches in the outer edge of its exposed face, and welding material in the said notches and extending beyond the said outer edge and upon the said body for securing the plate to the body, the said notches not being deep enough to reach the underside of the plate.

1,941,790
REAMER
Emery E. Davis, St. Louis, Mo.
Application May 21, 1930. Serial No. 454,281
2 Claims. (Cl. 77—72)



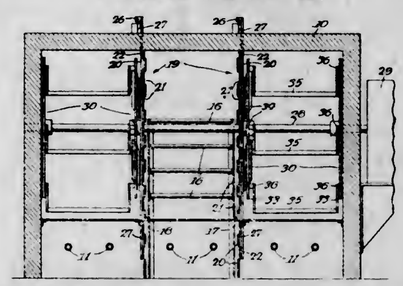
1. A reamer comprising a body portion, a plurality of axially alined annular cutter blocks fixed thereto in abutting relation and having grooves in their peripheral surfaces that extend from end to end of said blocks and are disposed at an oblique angle to the longitudinal reamer axis, and blades mounted in the grooves in said blocks and projecting beyond the respective blocks at the abutting ends thereof, the corresponding ends of the blades of adjacent cutter blocks being spaced apart peripherally of said reamer and overlapping longitudinally thereof.

1,941,791
STOKER ASH DUMPING MECHANISM
William E. De Voe, Detroit, Mich., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application February 6, 1931. Serial No. 513,927
5 Claims. (Cl. 110—165)



1. An ash dumping mechanism for a stoker comprising an arm pivotally supported about a substantially horizontal axis, an ash plate connected to the arm and arranged to move therewith, a stationary gear segment co-axial with the horizontal axis, a pinion rotatably mounted on the arm and in mesh with the gear segment, a manually rotatable shaft co-axial with the horizontal axis, and power transmitting means from said shaft to the pinion, whereby the pinion may be rolled along the gear segment and thus turn the ash plate about its pivot.

1,941,792
BAKE OVEN
John Faulds, Oak Park, Ill.
Application May 22, 1933. Serial No. 672,181
3 Claims. (Cl. 107—59)



1. A bake oven comprising a casing, a set of stationary shelves occupying a central section of the chamber of the casing, two sets of vertically movable shelves within the chamber and located in sections of the chamber on opposite sides of the stationary shelves, the adjacent sections of the chamber being separated by openable partitions, and means for actuating the movable shelves.

1,941,793
RETTING PROCESS OF TEXTILE MATERIALS
Jules Alexis Marie Faut, Schaerbeek-Brussels, Belgium, assignor to "Les Fibres Textiles", Schaerbeek-Brussels, Belgium, a Belgian company
No Drawing. Application August 20, 1932, Serial No. 629,758, and in Belgium August 21, 1931
5 Claims. (Cl. 92—5)

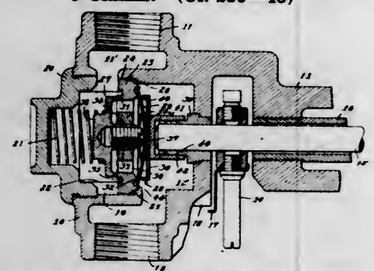
1. Retting process characterized by the facts that in the case of the flax plant, the saponified fatty stuff is in preference saponified linseed-oil and that the total product intervenes about for 2% of the flax's weight.

1,941,794
TUFTED MATTRESS AND METHOD OF MAKING THE SAME
John F. Gail, Evanston, Ill., assignor to Simmons Company, New York, N. Y., a corporation of Delaware
Application February 23, 1928. Serial No. 256,104
11 Claims. (Cl. 5—356)



1. A tufted mattress comprising a filled casing having a tufting cord passing therethrough provided at one of its ends with a knot having a tuft tied therein.

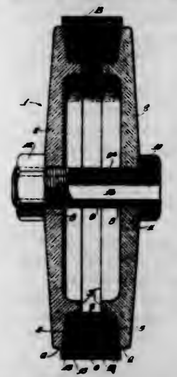
1,941,795
THERMOSTAT
John H. Grayson, Lynwood, Calif., assignor to Grayson Appliance Co. Ltd., Lynwood, Calif., a corporation of California
Application May 31, 1932. Serial No. 614,397
6 Claims. (Cl. 236—48)



3. In a device of the class described comprising a casing, a valve in said casing to be opened and closed in accordance with temperature change to control communication between inlet and outlet chambers provided in said casing, and a thermostat mounted on said casing and comprising a stationary tubular element fixed with relation to the wall of said casing, and a movable rod element therein extending into said casing into one of the chambers therein, means providing an operating connection between the movable rod element of the thermostat and the aforesaid valve comprising a sliding cap enclosing the inner end of said rod and movable therewith, and a stationary neck surrounding the inner end of said rod element and having said cap telescoping thereon with a close working fit.

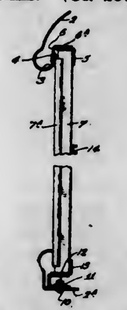
1,941,796
PROCESS OF APPLYING ABRASIVE
Sydney Gregory, Highland Park, and Reuben Robert Tompkins, Detroit, Mich., assignors to General Spring Bumper Corporation, Detroit, Mich., a corporation of Michigan
Application October 13, 1930. Serial No. 488,332
7 Claims. (Cl. 91—68)

1. The method of producing a polishing belt, which comprises the steps of temporarily applying an untreated belt to a cushioning means so that the latter is in intimate contact with the belt throughout the length of the latter, coating the



periphery of the belt with a sticky substance, and pounding at regular intervals contiguous portions of the periphery thus coated into a mass of abrasive material.

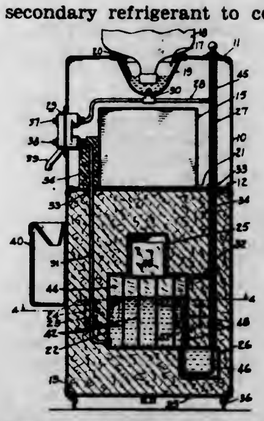
1,941,797
RADIATOR SHELL AND GRILLE ASSEMBLY
Lee B. Green, Lakewood, Ohio, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio, a corporation of Ohio
Application December 7, 1932. Serial No. 646,161
25 Claims. (Cl. 293—54)



1. A finishing assembly for a radiator, comprising a front member provided with an air admitting opening, and a detachable grille disposed behind the front member; the grille including an upper and a lower end bar, and a guard portion spanning these bars; the front member having laterally spaced portions adjacent to the upper edge of the said opening interhooked with the said upper end bar; and fastening means interposed between the lower end bar and the front member for drawing the grille downwardly to maintain the said interhooking.

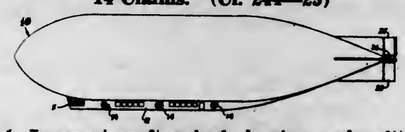
1,941,798
WATER COOLER AND METHOD OF COOLING WATER
Austin Gudmundsen, Milwaukee, Wis.
Application September 1, 1932. Serial No. 631,323
14 Claims. (Cl. 62—91.5)

11. The method of refrigerating water in a cooler which comprises subjecting the water to be drawn off to the cooling influence of a solid refrigerant of great capacity to freeze part of the water to produce ice, and then utilizing the ice as a secondary refrigerant to continue the



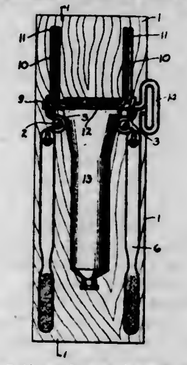
refrigerating process after the first refrigerant has been dissipated.

1,941,799
AIRCRAFT PROPELLING AND CONTROLLING MECHANISM
Charles S. Hall, Los Angeles, Calif.
Application July 25, 1932. Serial No. 624,426
14 Claims. (Cl. 244—25)



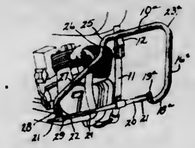
1. In an aircraft, a body having a plurality of driving propellers on each side thereof, a rudder on said aircraft and elevating fins on said aircraft, means to operate said rudder, drive means to operate said propellers, means to support said propellers whereby the angle of thrust of said propellers may be altered, means to control the speed of all the propellers in unison, selective means to control the speed of the propellers on the opposite sides of the aircraft, means to control the direction of thrust of the propellers and automatic means operable by said rudder operated means to control said selective means.

1,941,800
PASTE DISTRIBUTOR
Van Alvin Hamilton, Palestine, Tex.
Application April 20, 1933. Serial No. 666,951
2 Claims. (Cl. 221—60)



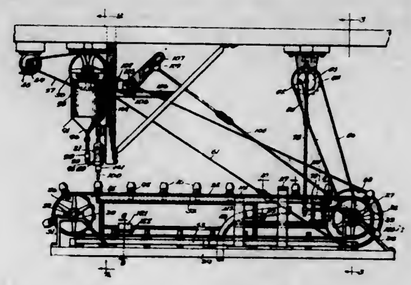
1. A device of the character described including a wire frame made up of a single length of wire, the ends of which are spaced apart and bent into loops forming attaching eyelets, the ends being extended forwardly from said eyelet, said wire between its ends being extended forwardly and upwardly and coiled to form spaced bearings, a spring member extending upwardly from said bearings and recurved to provide an arm adjacent said bearings, and a shaft in said bearings parallel with said arm adapted to be rotated to force the work against said arm.

1,941,801
MOTORCYCLE PROTECTING GUARD
William S. Harley, Milwaukee, Wis., assignor to Harley-Davidson Motor Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 5, 1933. Serial No. 650,252
6 Claims. (Cl. 208—150)



1. The combination with a motorcycle, of a transversely disposed leg protecting guard in a shin protecting position and of sufficient strength to protect the shins of the rider in the event of accident, said guard and its connections being located wholly in advance of the foot supporting portion of the step in a position of non-interference with lateral movements of the legs and feet of the rider when mounting or dismounting.

1,941,802
APPARATUS FOR MANUFACTURING EARTHENWARE
Delta B. Howell, Murphysboro, Ill.
Application April 30, 1932. Serial No. 608,369
12 Claims. (Cl. 25—29)

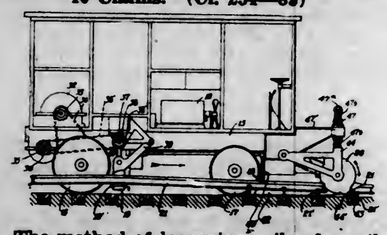


1. In an apparatus for casting earthenware, the combination of a supporting structure, conveyor-means supported on said structure, a plurality of molds mounted on the conveyor-means so that they may be tilted, motor driven means for driving the conveyor-means, pump-means connected to be driven by the motor and operative to charge the molds successively with predetermined quantities of earthenware-forming material, means for tilting the molds after charging thereof and during drive of the conveyor-means so as to pour out the excess material and leave linings within the molds, and means permitting discharge of the linings from the molds.

1,941,803
METHOD AND APPARATUS FOR LIFTING RAILS

Robert E. Hunter, Youngstown, Ohio

Application April 14, 1932. Serial No. 605,181
40 Claims. (Cl. 254—89)



21. The method of loosening rails of a railway track with respect to their roadbed which includes, holding a portion of a rail in tension with respect to its roadbed while subjecting the roadbed to impacts.

1,941,804
POROUS CERAMIC PRODUCT AND THE MANUFACTURE THEREOF

Frederick E. Kern, St. Louis, Mo.

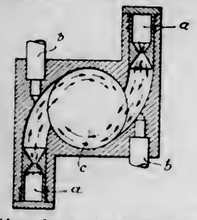
No Drawing. Application June 18, 1930
Serial No. 462,119
5 Claims. (Cl. 25—156)

1. The process of manufacturing porous ceramic products which comprises subjecting relatively low temperature bituminous coal to a distillation whereby volatiles are removed therefrom, comminuting said devolatilized coal and mixing the same with comminuted clay material, plasticizing the mixture, and forming the plastic mixture into shapes, and subjecting said shapes to heat treatment whereby said coal is burned from said shapes.

1,941,805
INJECTION ENGINE

Franz Lang, Munich, Germany, assignor to Lanova Aktiengesellschaft, Vaduz, Liechtenstein

Original application December 1, 1930, Serial No. 499,223, and in Germany December 27, 1929. Divided and this application June 30, 1933. Serial No. 678,353
1 Claim. (Cl. 123—32)

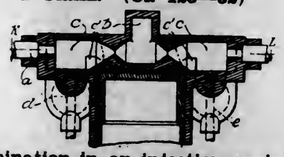


In combination in an injection engine, a cylinder and a piston operating therein, said cylinder having a passage opening into the cylinder through the peripheral wall and substantially tangentially thereof, said passage extending outward from the cylinder bore and substantially tangent thereto, an air storage chamber opening into the outer end of the passage through an orifice disposed to eject air into said passage lengthwise and toward the inner end thereof, and an injection nozzle opening into said passage adjacent the inner end thereof and outward beyond the cylinder bore, said nozzle being disposed to inject fuel lengthwise of the passage and toward the outer end thereof.

1,941,806
INJECTION ENGINE

Franz Lang, Munich, Germany, assignor to Lanova Aktiengesellschaft, Vaduz, Liechtenstein

Original application December 1, 1930, Serial No. 499,223, and in Germany April 8, 1930. Divided and this application filed June 30, 1933. Serial No. 678,355
1 Claim. (Cl. 123—32)

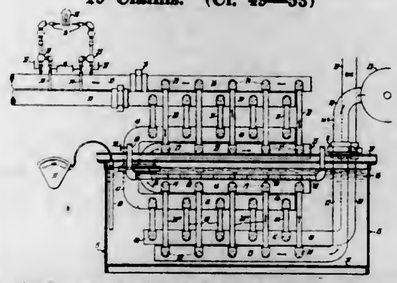


In combination in an injection engine, a cylinder and a piston operating therein, combustion chambers offset from the cylinder at opposite sides thereof and each defining two contiguous valve pockets, each chamber having passages opening into said pockets from below, valves in said pockets and controlling said passages, injection nozzles at the outer sides of said combustion chambers and disposed to inject fuel thereinto, and a common air storage chamber opening into the respective combustion chambers in substantial alignment with said nozzles, said combustion chambers communicating at their ends with said cylinder.

1,941,807
GAS-BULB HEATING APPARATUS

Adolph W. Machlet, Elizabeth, N. J.

Application December 14, 1929
Serial No. 414,009
19 Claims. (Cl. 49—53)



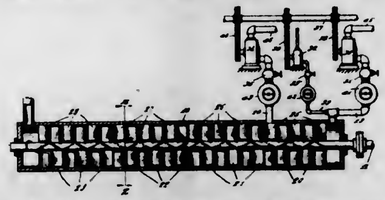
1. An apparatus for softening each of an indefinite succession of glass articles with heat maintained with precise uniformity at a specific point for a specific interval, without endangering the glass, including means for compressing and cooling fuel gas to deprive it of moisture, means for cooling and compressing air to deprive it of moisture, means for mixing the dried gas with the dried air under pressure, and means to direct a jet of the burning mixture against the glass article being treated.

1,941,808
EMULSIFIER

Kenneth E. McConnaughay, Indianapolis, Ind., assignor to Pre Cote Corporation, Indianapolis, Ind., a corporation of Indiana

Application December 8, 1930. Serial No. 500,830
9 Claims. (Cl. 259—9)

1. An emulsifier, comprising a hollow cylindrical casing, a rotatable shaft extending axially through said casing, a plurality of blades mounted in axially spaced relation on said shaft for rotation therewith, a plurality of stationary blades supported from said casing and extending inwardly toward said shaft in the spaces between said rotatable blades, some of said rotatable blades and some of said stationary blades being inclined to the shaft axis in one direction and others of said rotatable and stationary blades being inclined to the shaft axis in the opposite

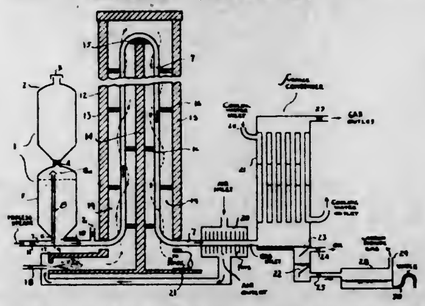


direction, said casing being provided near one end with two axially spaced inlet openings and near the other end with a discharge opening, some of said blades being disposed between said two inlet openings and inclined so as to tend to force material within the casing away from said discharge opening, and means for feeding emulsion ingredients into said casing through said inlet openings.

1,941,809
ART OF HYDROGENATING AND DISTILLING OIL SHALE

Ralph H. McKee, Jersey City, N. J.

Application October 12, 1929. Serial No. 399,390
2 Claims. (Cl. 202—23)

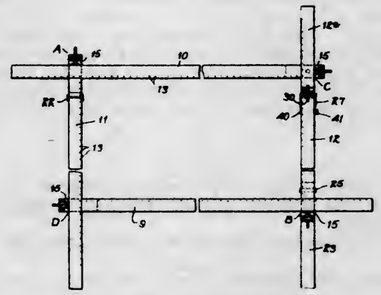


1. The process of hydrogenating and distilling oil shale, which comprises grinding the oil shale to a fineness of at least 20 mesh, preheating said ground oil shale to a temperature of about 300° C., suspending said ground oil shale in its preheated condition in a rapidly moving stream of steam to give a mixture having about equal parts of oil shale and steam present therein by weight, passing said mixture through a highly heated metallic tube while under a pressure of at least 1,000 pounds per square inch and less than about 2,500 pounds per square inch, maintaining a temperature of about 900° C. throughout the first half of said metallic tube and a temperature of about 250° C. to about 450° C. throughout the second half of said tube, controlling the movement of the stream containing the mixture of oil shale and steam in said tube so that the oil shale is only subjected to said heat for a relatively short period of time of the order of seconds to insure the evolution of vapors from said oil shale without deleteriously affecting said vapors and said shale, withdrawing the hot vapors and gases produced by the preceding step, subjecting said products to heat exchange, condensing the vapors, and separating the products.

1,941,810
CURTAIN STRETCHER

Allen K. Mitchell, Jr., Munhall, Pa.

Application December 10, 1932
Serial No. 646,637
6 Claims. (Cl. 45—24)

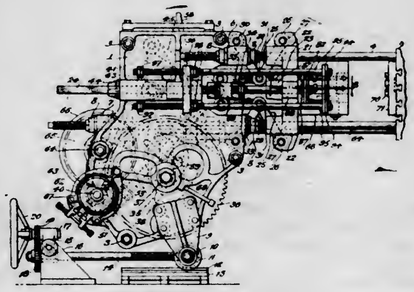


1. A curtain stretcher comprising a rectangular frame composed of end bars and edge bars disposed in a common plane, means for detachably clamping each bar at one end thereof to the adjacent bar at corners of the frame, for adjustment longitudinally of its adjacent bar, means for supporting the frame in substantially an upright position comprising a leg connected to one end bar in inclined relation thereto, a supporting bar disposed at the rear side of the frame adjacent to the other end bar and connected to the edge bar at the top of the frame, said supporting bar extending parallel to the said other end bar past the edge bar at the lower edge of the frame, and an inclined leg connected to said supporting bar, the lower edge bar and said other end bar being adjustable transversely of the upper edge bar in directions longitudinally of said supporting bar.

1,941,811
CORE PULLING AND EJECTING MECHANISM

Louis H. Morin, New York, N. Y., assignor to Doehler Die-Casting Co., a corporation of New York

Original application February 6, 1931, Serial No. 513,803. Divided and this application April 8, 1931. Serial No. 528,571
4 Claims. (Cl. 22—93)



2. In a die-casting machine, in combination a stationary die plate, adapted to hold a die-part, a movable die plate, an ejector box carried by the movable die plate, and adapted to carry a die-part, a toggle joint through which the mov-

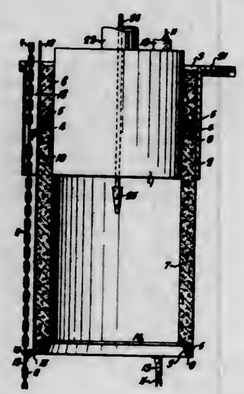
able die plate is actuated to move a die-part carried by the ejector box into and out of operative relation with a die-part held by said stationary die plate, a slidably mounted member connected to said toggle joint, said slidably mounted member being movable in the direction of movement of said movable die plate and adapted to move the die plate through the toggle mechanism, a core plate in the ejector box having its ends extending through the slides of the ejector box and being slidably mounted therein, a lost motion connection between the slidable member for operating the toggle mechanism and the core plate, and means for moving the slidable member.

1,941,812

MACHINE FOR THE PRODUCTION OF A PLURALITY OF SUBSTANTIALLY SIMILAR UNITS

Eric Percival Munts, Hamilton, Ontario, Canada

Application January 9, 1933, Serial No. 650,885, and in Canada April 21, 1932
9 Claims. (Cl. 25—30)



3. In a machine for molding concrete pipes and the like, a plastic mass receiving pipe mold open at its top and bottom, an outer substantially cylindrical form, an inner substantially cylindrical form contained within and spaced away from the inner face of the outer form whereby the mold is constituted, a pipe supporting pallet adapted to pass downwardly between the inner and outer forms to and through the bottom of the mold, and downwardly travelling means to which the pallet is detachably secured and by which it is supported.

1,941,813

TUBING ANCHOR

Jeddy D. Nixon and Tracy S. Park, Houston, Tex.; said Nixon assignor to American Engineering Corporation, Houston, Tex., a corporation of Texas

Application March 23, 1931. Serial No. 524,666
5 Claims. (Cl. 103—219)

2. The method of anchoring pump tubing of a reciprocating pump in a well casing which consists, in connecting in the string of well tubing above the working barrel a casing gripping device, lowering said tubing into the well casing to position said gripping device within the lower portion of the casing, and actuating said gripping device by subjecting the same to the pressure of the



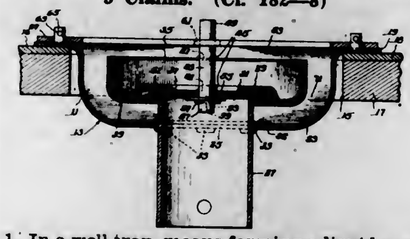
pumped liquid rising in the tubing to anchor said tubing against upward and downward movement.

1,941,814

WELL TRAP

Arthur F. O'Connor, Chicago, Ill., assignor to Equipment Specialties Company, Chicago, Ill., a corporation of Illinois

Application July 14, 1931. Serial No. 550,683
5 Claims. (Cl. 182—8)



1. In a well trap, means forming a liquid pocket having an upwardly open overflow outlet, a float having a portion overlying and normally sealing said outlet and a depending hollow portion extending below the level of said sealing portion whereby a liquid-seal may be provided as the liquid level in the pocket reaches said portion, said portion being adapted to buoy up the float as the liquid level rises above the level at which the liquid-seal is formed in order to open the outlet for the escape of liquid.

1,941,815

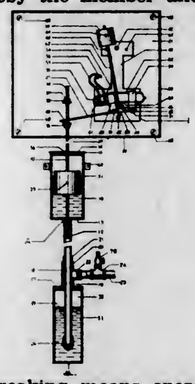
FLUID PRESSURE OPERATED DEVICE

Ivan G. Ringstrom, St. Paul, Minn.

Application July 8, 1929. Serial No. 376,567
5 Claims. (Cl. 200—84)

5. A fluid pressure responsive device comprising connecting chambers containing a body of mercury, fluid pressure means associated with one of the chambers and adapted to cause flow of mercury between the chambers under variations in the fluid pressure, a member in the second chamber adapted to occupy different positions in said chamber in conformity with the quantity of mercury therein, electric circuit making and breaking means operated by said member, the connection between the mercury chambers comprising a restricted passageway having a substantially circular cross section of fixed pinhole size submerged on the mercury and adapted to highly damp and retard the flow of mercury between

the respective chambers under variations in fluid pressure, whereby the member and the circuit



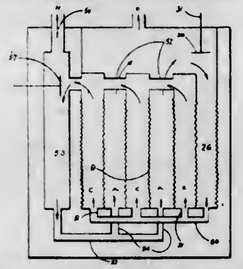
making and breaking means operated thereby will not be affected by momentary fluctuations in the fluid pressure.

1,941,816

ELECTROLYTIC METHOD AND CELL FOR THE DECOMPOSITION OF WATER

Alexander Thomas Stuart, Toronto, Ontario, Canada

Application April 22, 1930. Serial No. 446,311
12 Claims. (Cl. 204—5)



1. An electrolytic method for the decomposition of water which, in addition to the electrolysis and offtake of the gases, comprises a positive cyclic circulation of the electrolyte within the cell created by returning the anolyte and catholyte, free of oxygen and hydrogen, from the top to the bottom of the cell, intermixing them for restoring the electrolyte to and maintaining it at substantially uniform strength throughout the cell, and regulating the speed of the circulation for ensuring the offtake of pure gases.

1,941,817

PROCESS RELATING TO THE PRODUCTION OF A MATERIAL FROM VEGETABLE MATTER OF HIGH PENTOSAN CONTAINING PENTO-CELLULOSE MATERIALS

Orland R. Sweeney, Ames, and Charles E. Hartford, Dubuque, Iowa

No Drawing. Application May 18, 1931
Serial No. 538,258
15 Claims. (Cl. 92—14)

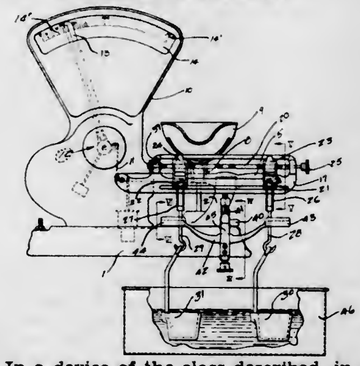
1. The process of manufacturing and producing a hard rigid product from vegetable matter of high pentosan containing pento-cellulose materials, such as corncobs, cornstalks, peanut shells, cotton burrs and stalks, consisting in the cooking of the pento-cellulose material in a liquid, comminuting the mass in a suitable machine, removing a portion of the liquid from said mass, and lastly the molding of the mass into a suitable shape.

1,941,818

TESTING DEVICE

Edward G. Thomas, Toledo, Ohio, assignor to Toledo Scale Manufacturing Company, Toledo, Ohio, a corporation of New Jersey

Application February 17, 1930, Serial No. 428,932, and in Canada March 20, 1930
14 Claims. (Cl. 265—44)



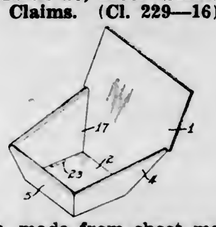
10. In a device of the class described, in combination, means for simultaneously weighing against each other a sample of moist sand and a sample of surface dry sand and means for submerging said samples during such weighing operation, said weighing means including a lever and means for supporting said samples therefrom at equal distances from its fulcrum.

1,941,819

BASKET

Walter Houghton Walker, New York, N. Y., assignor to Ottawa River Paper Company, Toledo, Ohio, a corporation of Ohio

Application March 20, 1933. Serial No. 661,735
7 Claims. (Cl. 229—16)



1. A basket, made from sheet material, comprising a back, downwardly tapered side and front walls, a bottom connected to said back, an upturned flap connected to the front edge of the bottom and wedged between the side walls adjacent the front wall, a flap connected to the upper edge of the front wall and extending downwardly inside the said upturned flap to form an inner facing for the front wall, and similar flaps connected to the upper edges of the side walls and forming inner facings therefor.

1,941,820

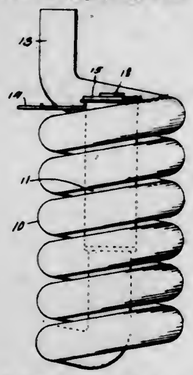
LIQUID FUEL BURNER

Erlow T. Babcock and Arthur H. Babcock, North Loup, Nebr.

Application April 20, 1933. Serial No. 667,107
3 Claims. (Cl. 158—91)

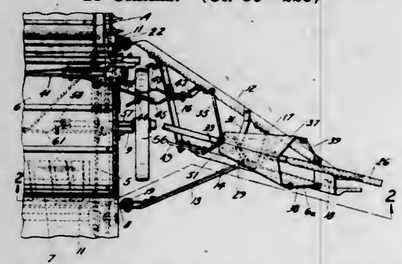
1. A liquid fuel burner comprising a combustion chamber open at one end, a spiral flue com-

municating with the combustion chamber, a cap positioned over the open end of the combustion chamber and having a draft opening therethrough, a well secured to the wall of the combustion chamber at a point adjacent the top thereof, means for supplying fuel to the well, a



perforated draft member, and means for supporting the draft member from said cap in depending relation within the combustion chamber, said draft member being open to the atmosphere at one end and closed at the other end, said closed end being positioned within the combustion chamber.

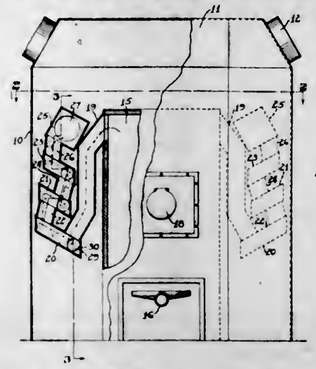
1,941,821
HARVESTER
Mervin R. Baker, Leland, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 31, 1930. Serial No. 457,801
13 Claims. (Cl. 56—228)



1. A draft tongue adapted to be connected with an implement and comprising a multiplicity of interconnected elements, each being adapted for connection with said implement, one of said elements having two pivotally connected sections, one of said sections being detachable from said implement and movable relative to the other of said sections and relative to the other elements to reduce the effective length of said one element.

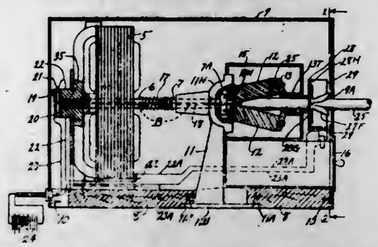
1,941,822
HOT AIR FURNACE
Dale R. Bard, Bryan, Ohio
Application May 15, 1933. Serial No. 671,097
3 Claims. (Cl. 126—99)

1. A hot air furnace comprising a casing provided with a cold air inlet and a hot air outlet, a combustion chamber and a radiator within the casing, flues connecting the bottom of the radiator with the combustion chamber, a discharge duct leading from the top of the radiator, the radiator being located between the combustion chamber and a side wall of the casing and comprising a plurality of superposed radiating boxes connected by ducts, the boxes and ducts forming a circuitous path for products of combustion from



the combustion chamber, and the boxes being substantially horizontal and all tilted laterally in shutter-like formation with their sides adjacent the side wall of the casing higher than their inner sides.

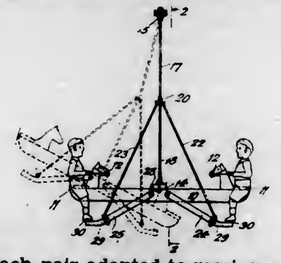
1,941,823
PENCIL SHARPENER
Carl P. Bohland, St. Paul, Minn.
Application April 3, 1933. Serial No. 664,103
6 Claims. (Cl. 120—96)



1. In a pencil-sharpener the combination of a rotary spindle formed with a tubular pencil intake end and means operated by the rotary motion of said spindle to sharpen a pencil inserted axially into said tubular end toward the inner end of said spindle, an electric motor mounted in proximity to said spindle with its drive shaft in axial alinement with the said spindle, an electric circuit, a primary circuit control device mounted in front of the intake end of the spindle, to close and open electric circuit to consecutively start and stop rotation of the sharpener by contact and movement of a pencil into the sharpener and out of it, and a secondary circuit control device in the circuit adapted to open the circuit by contact of pencil point when sharpened.

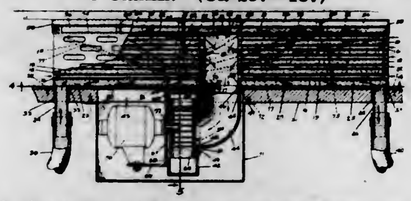
1,941,824
SEE-SAW SWING
William Booth, Douglaston Park, N. Y.
Application September 22, 1931
Serial No. 564,322
4 Claims. (Cl. 155—63)

1. A see-saw swing comprising a see-saw suspended at its midpoint, a plurality of suspension means therefor, flexible tension members attached to said suspension means, a pair of pulleys attached to each end of each side of the



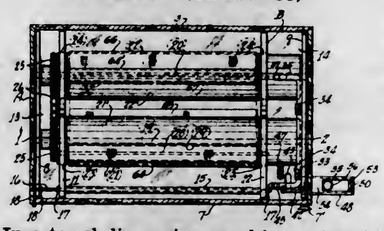
see-saw, each pair adapted to receive one of said tension members, and stirrups on the ends of said tension members.

1,941,825
HEATING APPARATUS FOR AUTOMOTIVE VEHICLES
Vernon J. Butterfield, Minneapolis, Minn., assignor to Tropic-Aire Incorporated, Minneapolis, Minn., a corporation of Delaware
Application January 23, 1929. Serial No. 334,541
8 Claims. (Cl. 257—137)



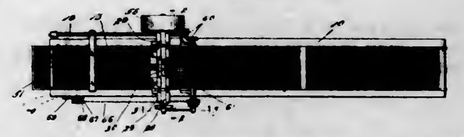
2. An automotive vehicle heater comprising a heating element positioned upon the floor of a vehicle body, and air propelling means positioned below said vehicle body floor for withdrawing air from the interior of said vehicle body and for returning the withdrawn air back into the vehicle body interior, the said air propelling means being adapted to cause the said withdrawn and returned air to contact with the heating element both upon its withdrawal from said vehicle body and upon its return thereto, to thus be heated and kept in continuous circulation within the vehicle body.

1,941,826
TOWEL-DISPENSING APPARATUS
Anice Card, St. Louis, Mo., assignor, by direct and mesne assignments, to Steiner Sales Company, Chicago, Ill., a corporation of Utah
Application October 26, 1931. Serial No. 571,166
10 Claims. (Cl. 312—38)



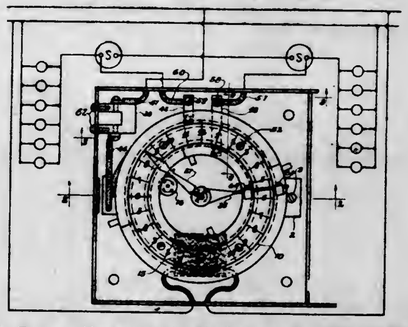
5. In a towel dispensing machine, a towel feed roll and a towel take-up roll, means for locking said rolls against rotation, means for releasing said locking means, means for holding said locking means in release position, and means on one of said rolls for actuating said holding means to restore said locking means to locking position.

1,941,827
GRANULATING MACHINE
Raffaele De Angelis, Providence, R. I.
Application January 24, 1931, Serial No. 510,994
Renewed November 10, 1933
5 Claims. (Cl. 146—179)
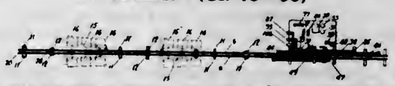


1. In a granulating machine, a carrier for the paste from which the granulars are formed having openings therein, a pestle member, a crank arm over said carrier, a head mounted on said crank and having a slot therein, a fixed projection extending into said slot, means for connecting said member to said head, whereby said member is moved toward said carrier and at the same time along said carrier with a combined wiping and pressing motion.

1,941,828
TIME CONTROLLED SWITCH
Louis Dekany, Chicago, Ill.
Application March 4, 1932. Serial No. 596,741
2 Claims. (Cl. 200—36)



1. In a time controlled switch mechanism, comprising an insulating ring, with inner and outer rabbets arranged for association with conductor rings, split adjustable time contact rings, split adjustable insulating rings adapted to be adjusted in spaced relation to each other, upon the time contact rings, corrugated compression members held in alignment by a dial ring.

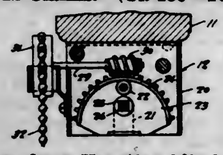
1,941,829
CONVEYER
Neal W. Dorman and John G. Eisenbach, Toledo, Ohio, assignors to The Toledo Machine & Tool Company, Toledo, Ohio, a corporation of Ohio
Application May 9, 1931. Serial No. 536,138
7 Claims. (Cl. 78—96)



1. In combination, a carriage mounted for reciprocation in a substantially horizontal direction, jacks mounted for movement up and down on the carriage, a rock shaft, means operatively connecting said rock shaft to the jacks to raise and lower the latter, said means being slidable with reference to the rock shaft as the carriage is reciprocated, means for rocking said

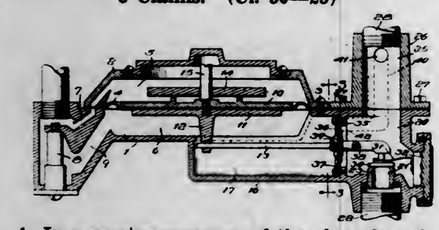
shaft, and means rendered effective by the shaft rocking means to move the carriage first in one direction and then in the opposite direction as the rock shaft completes its respective rocking movements.

1,941,830
VENETIAN BLIND OPERATING MECHANISM
John William Dunn, Los Angeles, Calif.
Application October 9, 1933. Serial No. 692,785
12 Claims. (Cl. 156—17)



1. A hanger for a Venetian blind comprising a frame adapted to be secured to a top rail, an oscillatable member guided on said frame to swing about an axis, and means on said member for connecting a header slat thereto on an axis eccentrically positioned in relation to and above the axis of said member so as to be tiltable therewith.

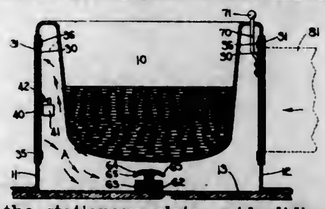
1,941,831
GAS SERVICE REGULATOR
Albert G. Ford, Aurora, Ill.
Application May 9, 1930. Serial No. 450,918
6 Claims. (Cl. 50—25)



1. In a service governor of the class described, the combination of a housing having a diaphragm chamber and a valve chamber separated by a wall from said diaphragm chamber, said valve chamber having an inlet port and an outlet, a diaphragm in said diaphragm chamber, a valve for controlling the inlet port, a lever pivoted adjacent the wall and having one arm extending through the wall and connected to said diaphragm and its other arm connected with said valve, for operating said valve, and means for rendering the diaphragm responsive to pressure variations in said outlet, said means comprising a connection establishing communication between the valve chamber and the outlet at a point distant from said valve chamber.

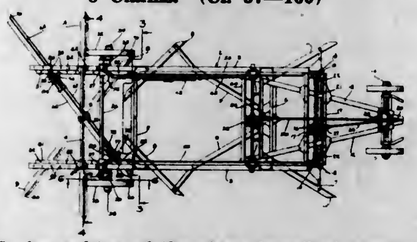
1,941,832
THERMOS BATHTUB
Carl A. Gottfried, Grand Rapids, Mich.
Application February 10, 1932. Serial No. 591,957
9 Claims. (Cl. 219—38)

1. In a bath tub arrangement of the character described, a bath tub having closure means extending entirely therearound whereby an enclosed air space is formed underneath the same, said closure means having an opening therethrough, a removable frame member consisting of an outer frame of Z-bar construction and a flat inner frame, said web of the Z-bar being located adjacent the edge of the opening and one flange of the Z-bar extending outwardly at the outside of the opening, a stationary plate having a series of slots therethrough located against the outer side of the other flange of the Z-bar, bolt means extending through the stationary plate Z-bar and the other frame member to detachably hold them in position, a sliding plate located immediately



behind the stationary plate, said sliding plate having openings therein whereby said openings may be positioned directly behind the slots in the stationary plate or else laterally positioned therefrom, thus, respectively, permitting or not permitting the passage of air through the structure, and means for moving the sliding plate.

1,941,833
ROAD-GRADING MACHINE
Carl A. Gustafson, Minneapolis, Minn., assignor to Caterpillar Tractor Co., Minneapolis, Minn., a corporation of California
Application July 10, 1930. Serial No. 466,990
8 Claims. (Cl. 37—160)



5. A machine of the class described, comprising a frame having a scraper blade mounted therebeneath and provided at its upper edge with oppositely extending flanges, a hanger suspended from said frame and having means at its lower end adapted to receive said flanges to provide a support for said blade, clamping members movably mounted on the flanges of said blade and each having means adapted to interlock with means on said frame, and means for actuating said clamping members to secure the blade to said frame in adjusted position.
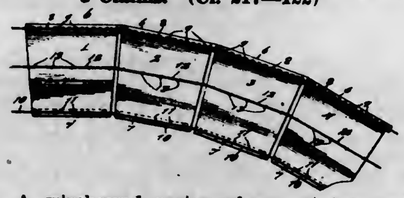
1,941,834
WEIGHING SCALE
Halvor W. Hem, Toledo, Ohio, assignor to Toledo Scale Manufacturing Company, Toledo, Ohio, a corporation of New Jersey
Application March 5, 1931. Serial No. 520,279
5 Claims. (Cl. 308—2)



1. In a scale, in combination, a lever having a plurality of circular bores accurately machined therein on the longitudinal axis thereof, pivots

seated therein, a pair of similar separate clamping members disposed within said bores, one of which is located on each side of said pivot, faces of said members forming Vs and screws having conical points threaded through said lever, and said conical points exerting wedging forces upon said clamping members to revolve them within the bore to clamp said pivots.

1,941,835
RECTANGULAR BASKET
Leslie M. Hile, Benton Harbor, Mich.
Application July 26, 1930. Serial No. 470,921
3 Claims. (Cl. 217—122)



1. A wirebound rectangular container made from a practically curved blank comprising downwardly tapered non-flexible side walls spaced in the blank and overlapping at their edges in the downwardly converging corners of the ultimate container, forming entirely flat sections of the blank, outside straight cleats of uniform length secured to the upper end edges of said walls, with one end of each cleat projecting beyond the edge of the wall, said cleats being relatively formed at their ends, and a binding wire extending along the outer sides of said cleats and snugly around their ends, whereby the wide ends of said walls are the same distance apart in the practically curved blank as the narrow ends thereof, so that each section of the blank is disposed at an angle to the other sections thereof, when the flat blank is viewed from above, said wire being held in place by staples inserted through the cleats and side walls, whereby the finished container tapers downwardly, with the mouth of the container unrestricted, and with the inner surfaces of the sides smooth and unobstructed, whereby a plurality of containers may be nested tightly together with said cleats disposed one above another.

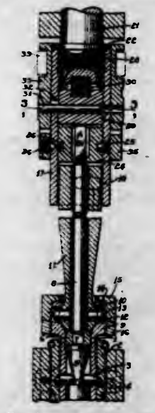
1,941,836
PAPER ARTICLES OF APPAREL
Henry G. Hillard, Regina, Saskatchewan, Canada, assignor of fifty-one one-hundredths to Ira H. Bowman, trustee, and one-fifth to Ira H. Bowman, Regina, Saskatchewan, Canada
Application October 18, 1932. Serial No. 638,317
5 Claims. (Cl. 28—1)



1. A homogeneous fabric including longitudinally elastic sealed tubular strands of crushable semi-crepe cellulose material substantially impermeable to air.

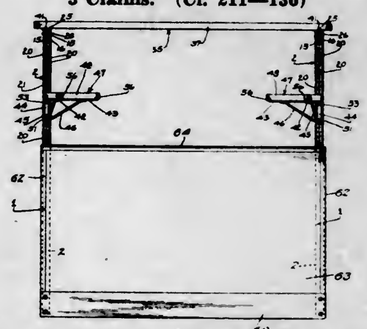
1,941,837
DEVICE FOR ADJUSTING CYLINDER HONES AND THE LIKE
William E. Heuer, Toledo, Ohio, assignor to The Hall Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application January 10, 1929. Serial No. 331,499
2 Claims. (Cl. 51—184.3)

1. In a cylinder hone driving and adjusting mechanism, a sleeve constituting a drive member, a hollow shank driven thereby, a clutch member within the sleeve guided for rotation relative thereto, a spindle keyed to said clutch member and extending through said shank, a co-operating clutch member in said sleeve normally rotatable in unison therewith and held in engage-



ment with the first mentioned clutch member, but movable for a limited distance out of engagement with said first mentioned clutch member and forwardly with reference to the sleeve, whereby the latter may then advance through a partial rotation without driving said spindle.

1,941,838
DISPLAY DEVICE
Herbert B. Hyams, St. Paul, Minn.
Application June 21, 1929. Serial No. 372,609
3 Claims. (Cl. 211—136)

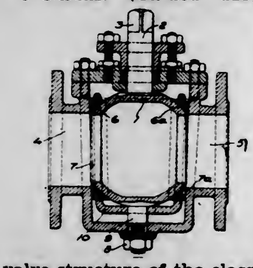


3. A device of the class described adapted to be applied to a glass show case, which case includes a base and upright frame elements including corner elements, said device comprising two standards, one for each of two corner uprights which are spaced in a direction lengthwise of the case, said standards being of a length to extend substantially the full height of the case and a substantial distance thereabove when attached, socket elements a pair for each of the two upright corner elements, said uprights being slidable in said socket elements, an arm for each standard, a single shelf adapted to be supported by the arms over the case, means for adjusting the arms to place the shelf at such a level above the level of the eyes of persons standing respectively at the front and back of the case, that an unobstructed view of one another beneath the shelf and goods may be had, the members of each

pair of socket elements being respectively attached to the upright and the base to act with the uprights to reinforce the case, and means which can be applied for holding the lower ends of the standards above the floor or which can be removed to permit the ends to engage the floor, whereby the weight of the goods support and load thereon can be supported by the floor, and whereby the case may act only to prevent tipping of the loaded goods display device.

1,941,839
PLUG COCK

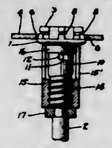
Johan Rikard Johansson, Stockholm, Sweden
Application August 6, 1932, Serial No. 627,690, and in Sweden December 10, 1931
9 Claims. (Cl. 251—113)



1. In a valve structure of the class described, a casing having converging inside walls, inlet and outlet openings leading therefrom, a spherical plug within said casing, an opening in said plug adapted for alignment with said openings, and adjustable seat members disposed adjacent said openings and arranged to cooperate with said casing and plug to form a tight seal, the seats being adjusted by movement of said plug.

1,941,840
TOOL CLAMP

William A. Kelsey, Minneapolis, Minn.
Application November 3, 1930. Serial No. 492,935
8 Claims. (Cl. 32—13)

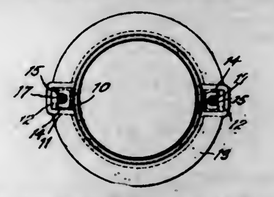


5. A device of the class described comprising a shank having a fixed jaw thereon, a movable jaw on said shank having a hub and a rotary and longitudinal movement, a stop on said shank, a sleeve abutting said stop and having a portion encircling said hub and in frictional engagement therewith whereby rotation of said sleeve will through said frictional engagement impart a rotary movement to said movable jaw and adjust it into and out of register with said fixed jaw, said movable jaw and said sleeve having means for moving said movable jaw longitudinally on said shank to its clamping position.

7. A mandrel comprising a shank having a fixed jaw thereon composed of a plurality of radial lugs, a movable jaw on said shank having radial lugs adapted to be moved into or out of register with the lugs of said fixed jaw, and means on its initial rotary movement for adjusting said movable jaw out of register with said fixed jaw, and subsequently during continued rotation of said means adjusting said movable jaw lengthwise of said shank to clamp a tool between said fixed and movable jaws.

1,941,841
FLANGE CONSTRUCTION

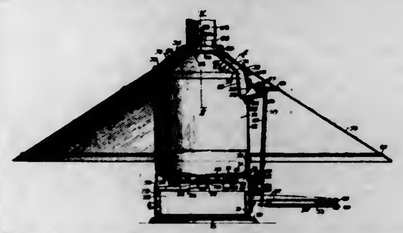
William F. Kispert, Green Bay, Wis.
Application February 21, 1930. Serial No. 430,340
1 Claim. (Cl. 285—34)



A shield for hold-down devices for sewerage and toilet fixtures, comprising a pocket forming member countersunk in a foundation for access through its surface, and a lid or cover integral with the member, normally closing the pocket therein at the level of the foundation and bendable away from normalcy to expose said pocket.

1,941,842
BROODER

Leland G. Knapp, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application December 9, 1929. Serial No. 412,643
8 Claims. (Cl. 126—58)

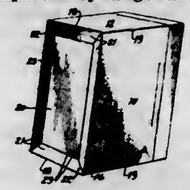


1. In a brooder, a stove element including a body having a fire-pot and a combustion chamber and a flue, said body being provided with a draft controlling damper below the fire-pot and with a check-draft opening at a point above the fire-pot, the damper and check coupled to open and close thermostatically in unison, and also provided with a flue opening for escape of the products of combustion, independent dampers for the check draft opening and for the flue opening, a channeled member arranged at the inner side of the body and communicating with said check-draft opening and with the flue beyond the said flue opening, said channeled member cooperating with the inner walls of the body to constitute a check-draft duct between the check-draft opening and the flue, and means for connecting said channeled member to the body.

1,941,843
CARTON

Leo Kulpinski, Wausau, Wis., assignor to The Menasha Products Company, Menasha, Wis., a corporation of Wisconsin
Application November 30, 1932
Serial No. 644,929
12 Claims. (Cl. 229—16)

1. A carton comprising side and end walls and a bottom, the material of the bottom being permanently deformed to afford an elevated center panel and a surrounding margin, the margin furnishing a plane support for the carton, and the material in the corners of the margin being permanently displaced by diagonally extending scor-



ing lines running from the corners of the inner base panel to the corners of the carton.

1,941,844
ASH RECEIVER

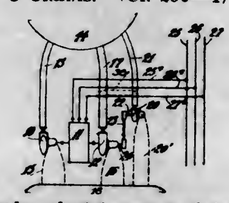
Dennis F. Larkin, San Francisco, Calif.
Application October 22, 1929. Serial No. 401,480
1 Claim. (Cl. 131—51)



An ash receiver including a cover having a top with an opening therethrough having serrations in its side adapted to engage the unburnt portion of a cigarette butt.

1,941,845
MEANS FOR THE OPERATION OF PUMPING ACCUMULATOR PLANTS

Jacob Lell, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Inc., New York, N. Y., a corporation of New York
Application June 15, 1931, Serial No. 544,426, and in Germany June 23, 1930
5 Claims. (Cl. 290—4)

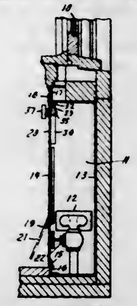


2. In a hydro-electric accumulator plant having a turbine operated generator-motor and a pump operated by said motor; an additional turbine adapted to be coupled with the pump and operable to compensate for the deficiency in current supply for the generator-motor upon occasions of heavy demand to thereby operate the pump at maximum capacity and water supply connections between both of said turbines of a common water head.

1,941,846
SHUTTER FOR RADIATOR ENCLOSURES

William Lloyd, West Orange, N. J., assignor to Ferro-Co Corporation, Brooklyn, N. Y., a corporation of New York
Application September 12, 1932
Serial No. 632,706
3 Claims. (Cl. 257—136)

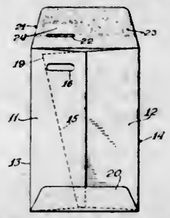
2. A radiator enclosure including a front plate having openings therethrough, a shutter pivotally mounted on the back of said plate for controlling the passage of air through said openings, and means including a screw rotatably mounted in



the plate and operatable from the front of said plate and a nut on the screw for adjusting said shutter.

1,941,847
ENVELOPE

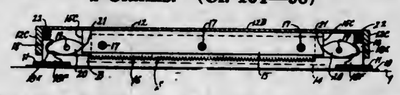
Henry McLaughlin, Chicago, Ill., assignor to Heco Envelope Co., Chicago, Ill., a corporation of Illinois
Application January 30, 1932. Serial No. 654,137
6 Claims. (Cl. 229—8.5)



1. An envelope completely sealed and having a coin receiving opening in one face within the confines of the edges, one of the walls of the envelope being formed by overlapping sections secured together, a portion of the under section being free from the portion of the outer section covered thereby, to form a flap within the envelope, said flap extending over the coin receiving opening to be deflected by the coin being inserted through the opening, the edge of the under section operating to form a guide for directing a coin over the flap in the event that it is attempted to remove the coin through said opening by inverting the envelope.

1,941,848
PERFORATING ATTACHMENT FOR PRINTING PRESSES

Samuel Meckler, St. Paul, Minn.
Application March 21, 1932. Serial No. 600,143
2 Claims. (Cl. 164—98)



1. A perforation device for printing presses having a platen, grippers adapted to press paper on the platen, a type chase and friction means for retaining set-up type in the chase; said perforation device comprising an elongated main bar of quadrangular form in cross section, the height of said main bar being less than the height of the type, said main bar being provided with an elongated deep slot intermediate its ends, an

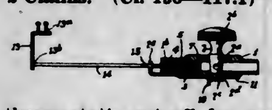
elongated secondary bar reciprocable within said slot and its ends terminating in spaced relation to the ends of the slot, spring actuated means normally holding said secondary bar retracted toward the bottom of the main bar, in said slot, an elongated perforation blade removably secured in said secondary bar and having a serrated edge protruding therefrom, said spring actuated means comprising a pair of protruding contact members one in each end of the slot and spring means normally pressing said members outwardly from the main bar, said protruding contact members adapted to contact yieldingly each on the face of a gripper, and means actuated by said contact members to reciprocate the secondary bar outwardly and cause its perforation bar to perforate paper on the platen, said means actuated by the contact members comprising rocker-cams pivotally mounted in the main bar intermediate each contact member and the adjacent end of the secondary bar, the outer ends of each such cam engaging a contact member and the opposite end loosely engaging a notch in the adjacent end part of the secondary bar, the yielding inward movement of each contact member causing a rocking action of its cam to project the secondary bar as described.

1,941,849
WEIGHING SCALE
Don D. Myers and Samuel N. Hurt, Toledo, Ohio, assignors to Toledo Scale Manufacturing Company, Toledo, Ohio, a corporation of New Jersey
Application November 17, 1930
Serial No. 496,086
4 Claims. (Cl. 287—92)



1. A joint comprising a thin flexible member and rigid reinforcing members secured to said flexible member, said reinforcing members having interdigitated projections overlying a zone of flexure of said flexible member.

1,941,850
SAFETY GAS COCK
Louis Balazinski, East Port Chester, Conn.
Application December 19, 1929
Serial No. 415,371
2 Claims. (Cl. 158—117.1)



1. In a thermostatic cut-off for gas burners, the combination with a valve structure embodying a manually operable main valve and an auxiliary valve tensioned in the direction of closing movement, of a plate slidably mounted on the valve structure and retained thereon by the main valve, a finger grip carried by the sliding plate, a thermostatic element responsive to heat of the burner, a slide rod positioned for operation at one of its ends by said thermostatic element with the other end thereof positioned for engagement with the tensioned auxiliary valve, and a lost motion connection between the plate and rod to allow additional expansion of the thermostatic element without affecting movement of the plate.

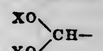
1,941,851
FLOW VALVE FOR OIL WELLS
Clarence H. Boring, New Straitsville, Ohio, assignor of one-half to Firmen Lambert, New Straitsville, Ohio
Application October 28, 1932. Serial No. 640,117
9 Claims. (Cl. 103—232)



1. In an oil well, a casing, tubing disposed within the casing and spaced therefrom to form an annular chamber, means for introducing an elevating fluid within the chamber, a valve controlling the admission of fluid from the chamber into the tubing, and a float disposed within the tubing normally holding the valve closed and actuated by the rise of the liquid in said tubing to permit opening of said valve.

1,941,852
PHOTOGRAPHIC GELATIN LAYER
Johannes Brunken, Dessau in Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of New York
No Drawing. Application February 10, 1933, Serial No. 656,196, and in Germany February 16, 1932
4 Claims. (Cl. 95—7)

1. A photographic material provided with a gelatin layer containing besides the condensation product of gelatin with a dialdehyde, a substantial amount of a derivative of the dialdehyde, at least one of the aldehyde groups being substituted, so as to correspond with the formula

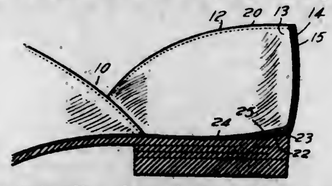


wherein X represents hydrogen or the radical of an organic or inorganic acid and Y represents the acid radical of an organic or inorganic acid.

1,941,853
SHOE
Michael Colavito and John S. Merenna, Brooklyn, N. Y.
Application July 30, 1932. Serial No. 626,807
1 Claim. (Cl. 36—68)

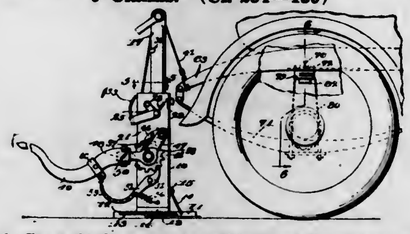
In a shoe of the type which is adapted to be readily placed upon the foot and easily removed

therefrom, having a yieldable counter portion comprising a pair of spaced coverings of leather having backwardly and inwardly bent portions,



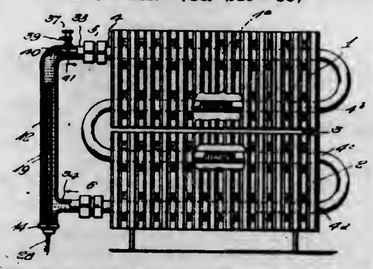
stitches extending through the said bent portions, and a rubber counter completely filling said space formed between the pair of leather coverings, said counter portion being of uniform thickness.

1,941,854
AUTOMOBILE JACK
Max Dwork, Brooklyn, N. Y.
Application June 4, 1931. Serial No. 542,177
9 Claims. (Cl. 254—139)



1. In a jack, an extensible post having a seat at the lower end and a notch in its side, a standard with which the post has telescopic engagement, a bar and mounting means by which the bar is movably carried by the standard, and resilient means for moving the mounting means toward the post to engage the bar either with the seat or the notch depending on the relation of the post with respect to the standard.

1,941,855
THERMOELECTRIC RADIATOR
Robert N. Eggleston, Riverdale, Md., assignor of one-half to John T. Doyle, Washington, D. C.; Blanche G. Eggleston administratrix of said Robert N. Eggleston, deceased
Application October 24, 1931. Serial No. 570,955
8 Claims. (Cl. 219—38)



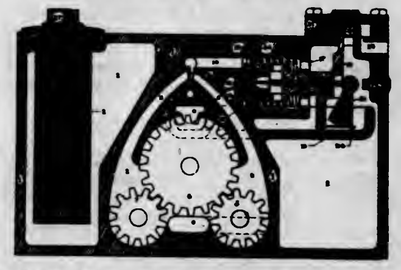
1. An electric heater comprising a fluid circulating pipe system, radiation members carried by said fluid circulating pipe system, a heat generator connected to the inlet and discharge connections of said fluid circulating pipe system, and an air injector extending from a point outside of the fluid circulating pipe system to a point submerged in the fluid in said fluid circulating pipe system for entraining air in the circulating fluid in said fluid circulating pipe system during the circulation of the fluid.

1,941,856
HOSE CONNECTION
Louis Fraley, Cooper, Okla., assignor of one-tenth to Richard A. Pulliam, Cooper, Oklahoma
Application April 29, 1932. Serial No. 608,313
1 Claim. (Cl. 285—171)



A coupling comprising male and female sections, the male section being enlarged near its attaching end to define an annular shoulder and an annular flange and having its surface threaded between the shoulder and the flange, a gasket encircling the section against said shoulder, a sleeve engaged with the threaded surface of the male section and abutting said flange and overlying the gasket and receiving therein the female section to engage the gasket, a lever including a transversely curved portion having spaced extensions pivoted to said sleeve, a yoke pivoted eccentrically to said extensions and having oppositely arranged notches in its side edges, oppositely arranged pins carried by the female section and received by the notches to cause the female section to be drawn into engagement with the gasket on pivotal movement of the lever in one direction, said lever having a portion thereof angularly disposed and of tubular construction to form a handle, the sleeve having an open-ended slot in its end, and a projection on the female section engaging said slot, the sleeve and handle being constructed for application of a lock.

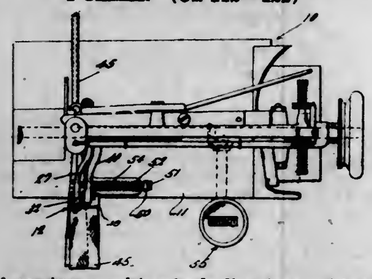
1,941,857
ANTISKID DEVICE FOR CAR WHEELS
Alfonso Garcia, Mexico, Mexico
Application November 22, 1932, Serial No. 643,929, and in Mexico December 22, 1931
9 Claims. (Cl. 303—21)



1. An apparatus for avoiding skidding or sliding of car wheels controlled by air brakes, comprising a casing containing an oil reservoir and a pump chamber, a pump in said chamber for drawing oil from said reservoir and forcing it through a passage to one end of a cylinder, a piston in said cylinder, a spring for urging the piston toward the oil feed end of the cylinder, a piston rod attached to the piston and extending through the cylinder, a relief valve in said piston having a stem extending through said piston rod, means for opening the relief valve when the piston reaches the end of its stroke, means mounted on the end of the piston rod for actuating the slide of a slide valve for controlling the escape of air from a brake cylinder, and means mounted on the end of the piston rod for

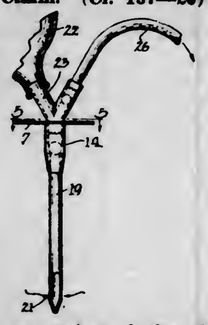
retaining the relief valve in open position until closed by return of the piston to its original position.

1,941,858
SEWING MACHINE ATTACHMENT
Osher Gosman, Vineland, N. J.
Application April 14, 1933. Serial No. 666,216
4 Claims. (Cl. 112—122)



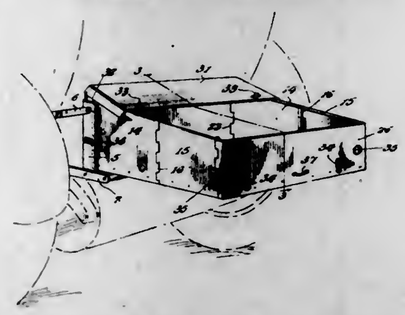
1. A sewing machine including in combination, a presser foot, a pivot shaft, a plate connected with the pivot shaft, a shaft carried by the pivot plate, a cam equipped shaft, an operating connection between said cam equipped shaft and said plate for rocking the latter upon rotation of the cam equipped shaft, a feeding in finger arranged to engage the under side of the fabric for feeding the fabric forwardly beneath the presser foot, a rocker arm supporting said finger pivotally connected with the plate supported shaft and being also provided intermediate its ends with means for engaging a cam on the cam shaft, a second feeding in finger disposed forwardly of the first named feeding in finger and arranged to engage the top face of the fabric and to cooperate with the first named feeding in finger for feeding the cloth forward beneath the presser foot, a rocker arm for the second named feeding in finger pivotally connected with the plate carried shaft, means on the rocker arm of the second named feeding in finger for engaging a second cam on said cam shaft, a rocker arm pivotally connected at one end to said pivot shaft, means on the last named rocker arm engaging a third cam on said cam shaft, a knife carrying member secured to the last named rocker arm, and a knife carried by said knife carrying member for severing the fabric lengthwise thereof as it is fed forward beneath the presser foot.

1,941,859
CREAM SEPARATOR
Jackson W. Hall, San Francisco, Calif.
Application April 11, 1933. Serial No. 665,595
1 Claim. (Cl. 137—20)



In a cream separator of the character described, a Y-shaped member having an externally threaded portion, a supporting disc positioned on said threaded portion, said disc contacting a shoulder formed on said Y-shaped member, a fitting threadedly secured to said Y-shaped member, a check valve positioned in said fitting, an intake pipe secured to said fitting, ports formed in said intake pipe, said ports being horizontally positioned with respect to the axis of said pipe, a siphon pipe having a serrated end secured to said Y-shaped member, a valve carried in said Y-shaped member and adapted to engage the serrated end of said siphon pipe, and a bulb secured to the other leg of said Y-shaped member, whereby a flow of liquid may be caused between said intake pipe and said siphon.

1,941,860
AUTOMOBILE TRUNK
Arden A. Hanson, Oakland, Nebr.
Application May 2, 1932. Serial No. 608,782
6 Claims. (Cl. 224—29)

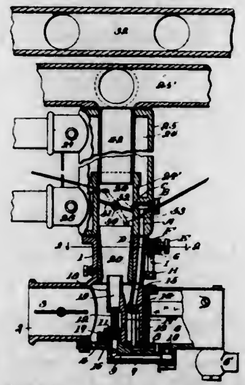


1. A carrier for attachment to a vehicle comprising a front wall, hingedly connected side walls having their front ends hingedly attached to the front wall, angle bars secured to the lower edges of the side walls and provided with spaced slots, a back wall hingedly secured to and connecting the rear ends of the side walls, a bottom comprising hingedly connected members, the forward member being hingedly connected to the front wall, and transverse bars secured to the bottom and provided with terminal depending hooks adapted to enter said slots for holding the bottom and side walls in extended relation.

1,941,861
PROCESS FOR THE ELECTRICAL PURIFICATION OF GASES
Richard Heinrich, Berlin-Sudende, Germany, assignor, by mesne assignments, to International Precipitation Company, Los Angeles, Calif., a corporation of California
No Drawing. Application August 1, 1930, Serial No. 472,502, and in Germany August 6, 1929
1 Claim. (Cl. 183—7)

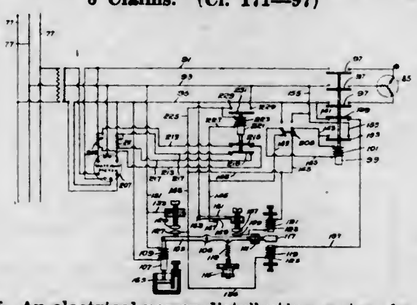
A method of electrical precipitation of poorly conducting dust from gases comprising passing a gas containing such dust in suspension between discharge and collecting electrodes to cause precipitation and deposition of such dust on the collecting electrode, and causing the deposited dust to accumulate in a layer on said collecting electrode, the velocity of said gas being maintained in excess of 10 meters per second so as to cause said deposited dust to form a dense uniform layer on the collecting electrode and thereby suppress the tendency for electric discharge to occur from said dust.

1,941,862
CARBURETOR
Frank H. Heitger, Flint, Mich.; Mattie G. Heitger, Flint, Mich., administratrix of said Frank H. Heitger, deceased
Application September 25, 1929
Serial No. 395,076
1 Claim. (Cl. 261—41)



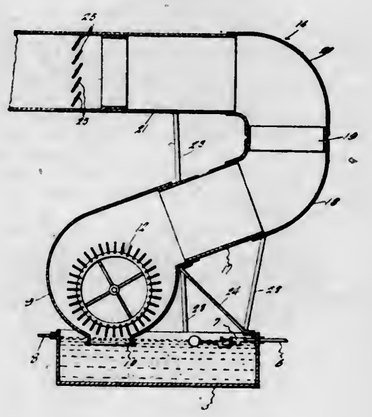
A charge forming device for internal combustion engines comprising a body having a carbureting passage extending therethrough having an air inlet at its lower end and a mixture outlet at its upper end, a throttle valve in said carbureting passage, said body being provided with a projection in its bottom having a fuel passage, a nozzle disposed in said fuel passage and extending upwardly therefrom, a collar surrounding said projection and adjustably mounted thereon, means for locking said collar in adjusted position, said collar being provided with an upwardly projecting arm carrying an atomizing tube surrounding said nozzle, a venturi disposed in said carbureting passage surrounding the upper end of said atomizing tube, said body being provided with a projection in the inner wall thereof having a vertically disposed idling passage enlarged at its lower end and in communication at its upper end with said carbureting passage posterior of said throttle valve, an auxiliary nozzle carried by the bottom of said body extending into the enlarged lower end of the idling passage and a constant level reservoir for feeding fuel to said nozzles.

1,941,863
ELECTRIC POWER DISTRIBUTING SYSTEM
Charles A. Johnson, Lexington, Mass.
Application April 3, 1931. Serial No. 527,598
6 Claims. (Cl. 171—97)



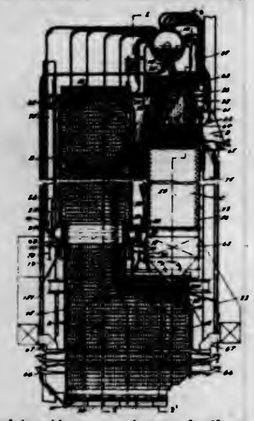
5. An electrical power distributing system having, in combination, a load to be energized by said system, a watt-hour meter for recording the power consumed by said load, the potential leads of said meter having associated switch controlled resistance means operative to cause said meter to record at high and low rates, switch means responsive to voltage conditions at the point in said system where said load is to be energized for connecting said load into circuit under high voltage conditions and for simultaneously operating said switch controlled resistance means to cause said meter to record at a low rate, said switch means also operative to interrupt such connection of said load into circuit under low voltage condition and simultaneously to operate said switch controlled resistance means to place said meter in condition to record at a high rate, and manually operated means for connecting said load into circuit independently of said voltage conditions.

1,941,864
COOLING AND VENTILATING DEVICE
Richard F. Kehrberg, Sheldon, Iowa
Application April 4, 1932. Serial No. 603,076
1 Claim. (Cl. 261—92)



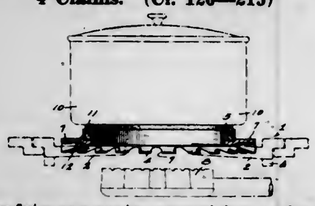
In a device of the character described, the combination with a ventilator wall grating, a water tank remote from said ventilator, brackets rising from the walls of the tank, a blower including a casing supported by said brackets, said casing having a lateral air inlet, and also having at its bottom a depending neck extending into the water in the tank below the level thereof, supply and overflow means respectively connected with the tank, a float control valve connected with the supply means for the tank, a blower fan mounted in the blower casing, a motor mounted exteriorly of said casing and having driving connection with said fan, said blower casing being also provided with an outlet neck, and a substantially U-shaped conduit connecting said ventilator grating with the outlet neck of the blower casing, and a plurality of baffles mounted on vertically spaced pivots within said conduit inwardly from that end of the conduit connected with said ventilator grating, and means exteriorly of the conduit connecting the pivots of said baffles for simultaneously operating them.

1,941,865
STEAM BOILER AND FURNACE THEREFOR
Howard J. Kerr, Westfield, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey
Application June 18, 1930. Serial No. 461,864
17 Claims. (Cl. 122—235)



1. In combination, a steam boiler, a furnace, an upper steam and water drum, two sections of furnace wall cooling tubes located at different levels, and connections between said sets of furnace wall tubes and said steam and water drum so constructed that separate circulations therefor are provided, the lower section of the furnace being provided with a roof extending towards the center of the boiler, wall cooling tubes of said lower section extending along said roof to cool the same.

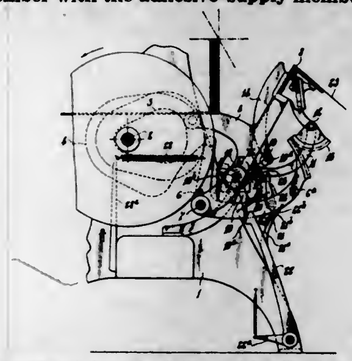
1,941,866
SAFETY GAS GRATE
John Kirk, San Francisco, Calif.
Application July 21, 1931. Serial No. 552,211
4 Claims. (Cl. 126—215)



1. A safety gas grate comprising a ring having an outwardly extending apron, a flexible and non-inflammable member disposed about the ring, and a split ring clamping the member to the first ring, said member projecting above the rings.

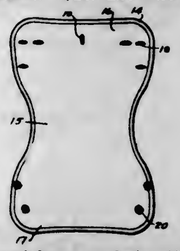
1,941,867
PASTING MECHANISM FOR STITCHING MACHINES
Oscar Kleinschmit and Oskar Müller, Leipzig-Plagwitz, Germany, assignors to Gebruder Brehmer, Leipzig-Plagwitz, Germany, a German company
Application July 26, 1930, Serial No. 471,056, and in Germany May 30, 1930
16 Claims. (Cl. 91—47)

4. In a stitching machine, mechanism for the purpose of applying adhesive to the edge of a folded sheet, comprising an adhesive-supply member, an adhesive-applying member, means for lifting the adhesive-applying member upwardly into contact with the folded sheet, and means for engaging the said adhesive-applying member with the adhesive-supply member during



the upward travel of the said adhesive-applying member.

1,941,868
FORM FITTING DIAPER
William L. Leavy, Baltimore, Md.
Application January 6, 1933. Serial No. 650,526
1 Claim. (Cl. 128—284)



A diaper comprising a substantially elongated rectangular body portion having a narrow intermediate crotch portion upon which the body portion is adapted to be folded, the opposite ends of the diaper being symmetrical from the fold line, each end of said body portion having its side edges bounded by continuous reverse curves providing relatively wide hip portions emerging gradually from the opposite sides of the crotch portion and adapted to overlap at the sides of the wearer's body and conform smoothly to the hips, said continuous reverse curves providing a reduced waist line portion and crotch portion, one end of said body portion having button holes therethrough disposed adjacent the opposite corners thereof, and spaced apart transversely and longitudinally of the body portion, the other end of said body portion having pairs of buttons on the outer side of the body portion to face outwardly from the body and with the buttons of each pair spaced apart lengthwise of the body portion, the outer end portions only of the body portion adapted to overlap with the button hole carrying corners over the buttons when on the body and said buttons adapted to engage outwardly through selected button holes to adapt the diaper to the size of the waist of the infant.

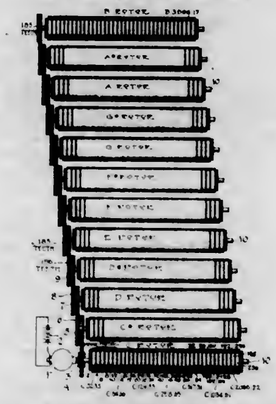
1,941,869
DEPOLARIZING ELECTRODE
Martin L. Martus, Woodbury, and Edmund H. Becker, Waterbury, Conn.
Application July 22, 1930. Serial No. 469,919
8 Claims. (Cl. 136—115)

1. In the manufacture of electrode elements for galvanic batteries, the process which comprises molding a body of copper oxide about a metallic conductor to make an electrode article, baking the article, spraying a molten metal against the outside of said body and against the joint between said body and said conductor,



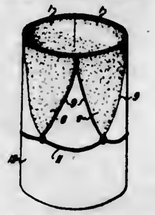
thereby building up an electrically conductive sheath of metal in electrical contact with said conductor, and thereafter baking the whole at a relatively low temperature to obtain an annealing effect; the said molten metal being selected from a class consisting of copper and zinc.

1,941,870
ELECTRICAL MUSICAL INSTRUMENT
Melvin L. Severy, Los Angeles, Calif., assignor to The Vocalsevro Company, Los Angeles, Calif., a corporation of Delaware
Application May 28, 1929. Serial No. 366,661
9 Claims. (Cl. 84—1)



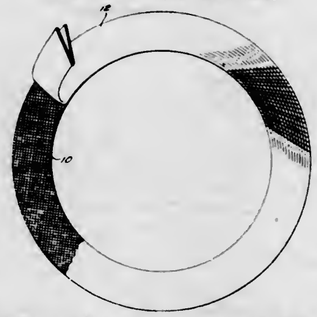
1. In a musical instrument capable of producing the tones of a musical scale, electromagnetic means including a transformer common to a plurality of partials, for generating a multiplicity of series of electrical waves, each of said series being in periodicity and form suitable to produce one of the partials of one of the notes of the instrument; means instantly available to the player during performance for selecting any one of a plurality of combinations of said partials at predetermined relative intensities; means operable by the player for grading the power of the electrical waves for purposes of musical expression; means for enlarging the graded waves; and means including a plurality of individualized sound-producing members for converting into sonorous vibrations the electrical waves producing the selected partials, thereby eliciting a tone of any desired timbre.

1,941,871
CONTAINER
Oscar I. Struve, Buffalo, N. Y.
Application May 17, 1932. Serial No. 611,889
2 Claims. (Cl. 220—65)



1. A liner for removable insertion into an open topped container of the character described comprising a plurality of side members, a bottom portion, a plurality of substantially triangular flaps each formed integrally upon the upper edge of a side member and adapted to extend down the outside of the container, the free edges of the flaps being convexed and a draw string looped through orifices in the bottoms of the flaps.

1,941,872
FRICTION FACING
Hamilton Abert, New York, N. Y., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
Application December 31, 1931
Serial No. 584,017
6 Claims. (Cl. 154—52)

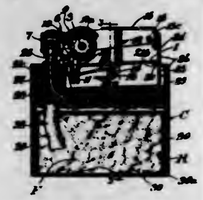


1. A friction facing ring comprising a surface ring cut from an asbestos cloth fabric and having the threads thereof in substantially undistorted relation, and a backing layer of a material which is substantially not distorted from circular form by circumferential stresses, and which comprises a refractory reinforcing material and a hardened binder, said binder serving also to unite said layers into a strong coherent ring.

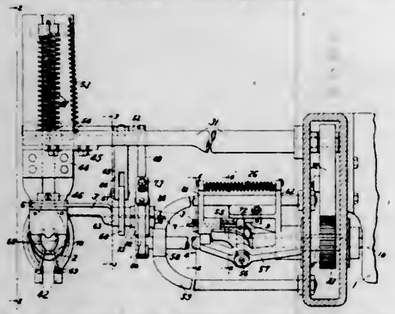
1,941,873
PYROPHORIC LIGHTER ARRANGEMENT
Louis V. Aronson, Newark, N. J., assignor to Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application March 31, 1930. Serial No. 440,215
8 Claims. (Cl. 67—7.1)

4. In a pyrophoric lighter, a main casing having compartments sealed from each other, pyrophoric flame-producing mechanism carried by said casing, said mechanism comprising a pyrophoric element and a biasing spring therefor disposed in one of said compartments, a supplementary fuel-containing casing in another of said

compartments, fuel passing from said supplementary casing into said last named compartment, and a mass of absorbent material in that part of said last named compartment which is not occupied by said supplementary casing.



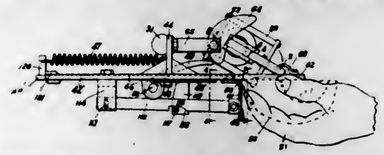
1,941,874
HALF-FRUIT PITTING AND CORING MACHINE
Joseph P. Bem, Oakland, Calif., assignor to Pacific Pitting Machine Company Inc., Fresno, Calif., a corporation of California
Application May 31, 1932. Serial No. 614,426
10 Claims. (Cl. 146—28)



1. In a machine for pitting fruit, a curved blade formed to cut out the core of a half-fruit, a carrier arm on which the blade is mounted, a revolvable shaft extending generally along said carrier arm, means pivoting the carrier arm to the shaft at a point remote from said blade to permit bodily swinging of the blade toward and from the axis of said shaft, a yoke carried by the shaft embracing said carrier arm, a device on the carrier guided in said yoke, a cam firmly positioned at a point between said yoke and said blade, arranged to control the movement of said carrier arm when swinging and revolving the same by said shaft.

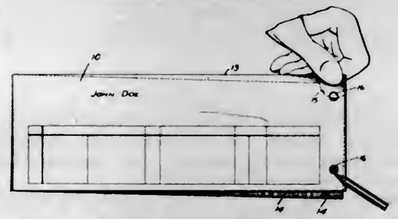
1,941,875
PEACH PITTING SUPPORT AND TIP CUTTER
Joseph P. Bem, Oakland, Calif., assignor to Pacific Pitting Machine Company Inc., Fresno, Calif., a corporation of California
Application November 5, 1932. Serial No. 641,424
5 Claims. (Cl. 146—28)

1. In a machine for removing the half-pits from bisected peaches, peach supporting means provided with an under side against which the flat side of the fruit-half is adapted to be held for pitting and having an opening through which the half-pit of the fruit-half is exposed, a curved blade mounted for swinging through the opening in said support for cutting out the half-pit of the fruit, a movable member mounted for sliding along said supporting means and against which the fruit-half is adapted to abut while being positioned against said supporting means for pitting, a tipping blade carried by said movable member arranged to overhang the bloom tip of the fruit-half when the fruit is abutted



thereagainst, and means moving said tipping blade to cut off the bloom tip of the fruit-half upon sliding said movable member by pushing thereagainst with the fruit-half.

1,941,876
RECORD
Edward Kirby Bottle, deceased, late of Elmira, N. Y., by Sara Jane Bottle, administratrix, Elmira, N. Y., assignor to American Sales Book Company, Limited, a corporation of Canada
Application March 18, 1931. Serial No. 523,428
4 Claims. (Cl. 282—12)

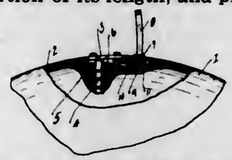


1. A record assembly including record sheets in superposed manifolding relation with each other, a transfer sheet in interleaved transfer relation with said record sheets, each of said record sheets having a sheet separating opening entirely enclosed therein, and said openings being in register with each other and with unapertured areas of said transfer sheet when all of said sheets are registered in the assembly, said transfer sheet having a grip escaping aperture opening through its edge and positioned in the assembly remote from said sheet separating openings and in register with grip areas of said record sheets, each of said record sheets having also a second opening entirely enclosed therein and spaced from the respective sheet separating openings and in register with each other when the record sheets are registered, said second openings being positioned in the assembly substantially on a straight line between said sheet separating openings and said grip escaping apertures and being in alignment with the latter when the record and transfer sheets are separated from each other along said straight line a distance equal to the diameter of said sheet separating openings, said first and second openings of each record sheet being equally spaced inwardly a short distance from one of the sheet margins to provide a pair of spaced filing apertures for each record sheet.

1,941,877
EXERCISING BALL
Lloyd F. Brazeau, Portland, Oreg., assignor of one-fourth to Paul Palmblad, Portland, Oreg., and one-fourth to Harry T. Bates, Portland, Oreg.
Application March 21, 1933. Serial No. 661,964
1 Claim. (Cl. 272—77)

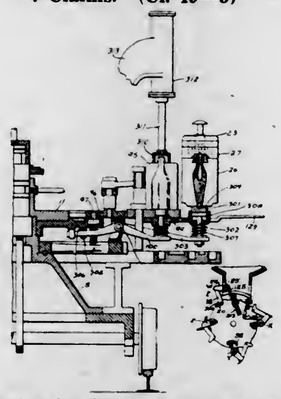
In a device of the class described having a ball resiliently connected with the body of a user, the combination of a cavity formed within the wall

of the ball, and having an upper and lower wall, an enlargement formed integral with the inner wall of the cavity and extending downwardly therefrom, said upper wall of the cavity being slit for a portion of its length, and provided with



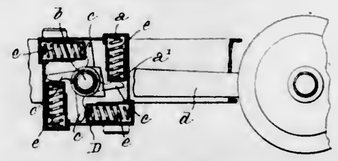
an aperture in the remaining portion of its length, a tubular valve extending through the enlarged portion of the lower wall of the cavity and accessible through the slit portion of the upper wall.

1,941,878
SUCTION GATHERING BOTTLE MACHINE WITH OVERLAPPING CYCLES
Robert W. Canfield, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application February 20, 1929. Serial No. 341,384
7 Claims. (Cl. 49—5)



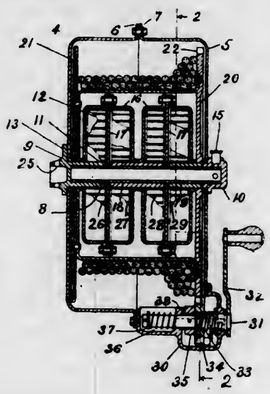
1. Apparatus for forming articles of glassware which comprises a continuously rotating carriage, a suction parison mold and associated blow mold mounted thereon, a neck ring and a suction and blow head associated with said parison mold, and a blow head associated with said blow mold, means for projecting the parison mold, neck ring and suction and blow head to a position over a bath of glass to gather a charge of glass in the parison mold and neck ring, means for severing the glass, means for moving the parison mold, neck ring and head to a parison forming position, a bottom mold adapted to cooperate with the parison mold at the parison forming position, means for blowing the charge to form a parison, means for opening the parison mold, means for moving the neck ring to present the parison between the halves of the blow mold, means for closing the blow mold about the parison, means for opening the neck ring and moving the neck ring away from the blow mold, means for moving the blow head into capping relation with the blow mold and for applying blowing pressure therethrough to blow the parison to final form, and means for timing the several operations to provide that a parison may be both gathered and blown in the parison mold while a parison previously formed therein is being blown to final form in the associated blow mold.

1,941,879
SUSPENSION
André Dubonnet, Neuilly-Sur-Seine, France
Application December 15, 1930, Serial No. 502,375, and in Belgium January 16, 1930
8 Claims. (Cl. 267—34)



1. In a vehicle suspension, a chassis, an arm pivotally supported on said chassis, a wheel suspended from said arm, a second arm mounted to rotate with said first named arm, said second arm being formed to present a pair of curved surfaces of different curvature together forming a broken composite surface, and resilient means positioned to successively bear tangentially against said pair of surfaces during variations in load on said chassis.

1,941,880
REEL
Charles I. Earll, York, Pa.
Application September 21, 1931
Serial No. 563,941
8 Claims. (Cl. 242—107)

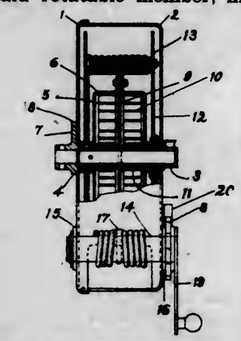


2. The combination with a drum and a spring adapted to rotate said drum to wind rope thereon, of means independent of said spring adapted to rotate said drum in a rope winding direction including means operated automatically by the operation of said first named means adapted to be put into operative position by said rotating means to retain the drum against unwinding.

1,941,881
REEL
Charles I. Earll, York, Pa.
Application October 19, 1931. Serial No. 569,658
4 Claims. (Cl. 242—107)

1. The combination with a spring actuated drum adapted to pay out and retract a rope, and a case in which said drum is rotatably mounted, of a rotatable member supported by

said case, said drum being rotatable independently of said rotatable member, means for securing the rope thereto to cause it to wind up thereon when said rotatable member is rotated.

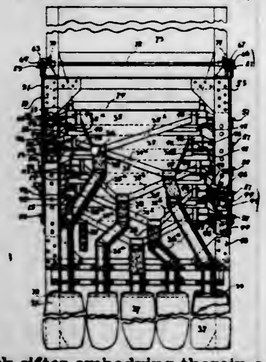


1,941,882
WIRE SPRING FABRIC
Charles J. Elder, Brooklyn, N. Y.
Application May 2, 1933. Serial No. 668,945
6 Claims. (Cl. 5—269)



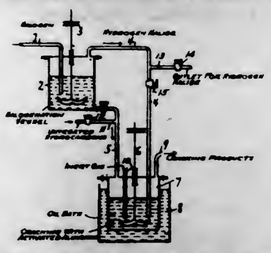
1. A spring helical connecting member having a terminal portion outwardly from the adjacent end convolution of the helical and curved out for a part of its length away from such end convolution of the helical so as to extend substantially diametrically across such end convolution, the terminal portion also including a hook-shaped part curved in a plane inclined across the longitudinal axis of the helical, and the curve thereof extending in such plane substantially concentric with such end convolution for a substantial distance.

1,941,883
CORK SIFTER
John D. Elder, Catonsville, Md., assignor to Crown Cork & Seal Company, Inc., New York, N. Y., a corporation of New York
Application May 6, 1929. Serial No. 360,670
9 Claims. (Cl. 209—366)



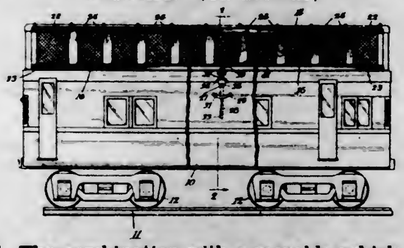
8. A cork sifter embodying therein a sifter unit having a rectangular frame, a thrust member adjacent each corner of said frame including therein contact plates extending from each other at an angle to engage said frame about the corner thereof, a seat within the angle of said plates supporting said frame, a downwardly presented bearing carried by said seat, a fixed bracket adjacent each of said thrust members, said bracket having a bearing co-operating with the bearing upon said support, a gear rotatably mounted upon said bracket, a crank pin upon said gear, an arm bearing upon said crank pin carried by said thrust member, and means common to the gears carried by the brackets associated with said unit for imparting similar, simultaneous movement to said gears, said crank pins being set upon the same radius of each of said gears.

1,941,884
CONVERSION OF HYDROCARBONS INTO THOSE OF LOWER BOILING POINT
Hans Engel, Mannheim, and Josef Jannek, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application August 1, 1930, Serial No. 472,308, and in Germany August 5, 1929
13 Claims. (Cl. 196—54)



1. The process for the conversion of hydrocarbons of high boiling point into those of lower boiling point which comprises subjecting the former to the action of free halogen at a temperature between 0° and 150° C., and then subjecting the products obtained at a temperature between 100° and 500° C. to the action of aluminium activated by treating it with a solution of a salt of a metal which is less electropositive than aluminium.

1,941,885
STEAM CONDENSER CONTROLS FOR MOVING VEHICLES
Clyde B. Faverty, Chicago, Ill., assignor to Ryan Car Company, Chicago, Ill., a corporation of Illinois
Application January 5, 1931. Serial No. 506,596
9 Claims. (Cl. 257—25)

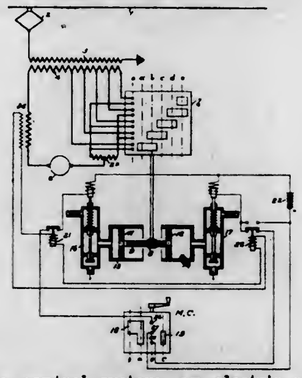


1. The combination with a movable vehicle, of a vehicle body, steam condenser sections on the body, longitudinally disposed vanes on two sides of the sections, vanes disposed at right angles to said longitudinal vanes, and means for controlling the position of said last mentioned vanes.

1,941,886
EMULSION DECOMPOSING BODY
Charles Fischer, Jr., Wyoming, and Warren T. Reddish, Cincinnati, Ohio, assignors to The Kontol Company, Dallas, Tex., a corporation of Texas
No Drawing. Continuation of application Serial No. 134,124, September 7, 1926. This application October 17, 1929. Serial No. 400,442
5 Claims. (Cl. 252—1)

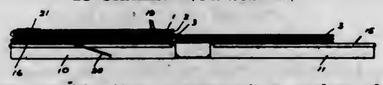
1. A reagent for resolving petroleum and water emulsions, said reagent, comprising, a mineral oil sulfonic body of the type recovered from the refining of medicinal white oils and the like with strong or fuming sulfuric acid, and alcohol as a viscosity reducer a reagent disperser and accelerator of coalescence.

1,941,887
MOTOR VEHICLE CONTROL SYSTEM
Erich Fleischhammer, Mannheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application November 5, 1930, Serial No. 493,546, and in Germany November 11, 1929
4 Claims. (Cl. 172—179)



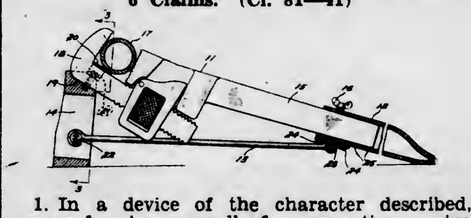
1. In a control system, an electric motor, a source of current supply for operating the said motor, a controller movable in one and another direction to and from a plurality of positions to control thereat the connection of said source of current with said motor, means operative to effect said movements of the controller, and control means actuated responsive to and in dependence upon the flow of current from said source of predetermined value to said motor operative to actuate the first said means to arrest movement of said controller in its said one direction and operative responsive to and in dependence upon the flow of said current to said motor of value in excess of said predetermined value to actuate the first said means to cause movement of said controller in its said another direction.

1,941,888
MANIFOLDING DEVICE
John Stuart Fleming, Niagara Falls, N. Y., assignor to Niagara Fold, Inc., Niagara Falls, N. Y., a corporation of New York
Application April 10, 1929. Serial No. 353,978
18 Claims. (Cl. 282—3)



1. In combination, a support, a carbon sheet reciprocally shiftable along said support, and a carbon-sheet-anchoring pliable cord connected to said carbon sheet and to said support for controlling the extent of shift of said carbon sheet.

1,941,889
PIPE CLAMPING DEVICE
William A. Freeman, Los Angeles, Calif.
Application January 13, 1932. Serial No. 586,334
6 Claims. (Cl. 81—41)



1. In a device of the character described, means forming a cradle for supporting a pipe wrench comprising, an upright rest, a holder spaced therefrom in a position substantially centrally of the extremities of the rest, and means connecting the holder to the rest, said means converging from the rest to the holder and being pivotally secured to the holder whereby said holder can be inclined towards the rest accommodating the handle of the wrench in the desired position.

1,941,890
LADDER BRACE
Herman B. Gaffers, Watervliet, N. Y.
Application May 27, 1930. Serial No. 456,121
7 Claims. (Cl. 228—33)

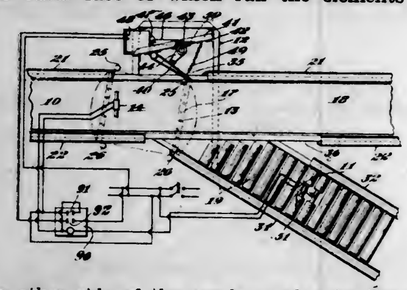


1. A brace for a ladder or the like comprising a first and a second plate and lying in substantially the same plane as defined by the surfaces of greatest area of the plates, but having their axes offset from each other in said plane when the brace is in open position, means for pivoting said plates together, said second plate being formed with a toe extending at an angle to said plate and engageable with the end of the first plate when the brace is in open position, and associated means normally forming a housing for the adjacent ends of said plates during the relative movements thereof.

1,941,891
CONVEYER SYSTEM
George A. Grassby, Jr., Newton Center, Mass., assignor to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts
Application December 24, 1930
Serial No. 504,456
7 Claims. (Cl. 198—38)

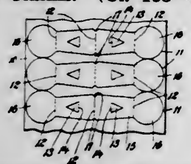
1. In a conveyer system including a main conveyer over which cars are transported and a branch conveyer to which such cars may be deflected, rails at the sides of said main conveyer, elements projecting from the cars adjacent such rails and adapted to coact therewith to position the cars on the conveyer, a movable switch normally out of the path of travel of the cars, said switch when out of its normal position engaging the elements on one side of the car for shifting the car across the main conveyer, and

a side rail adjacent the branch conveyer against the outer face of which rail the elements on



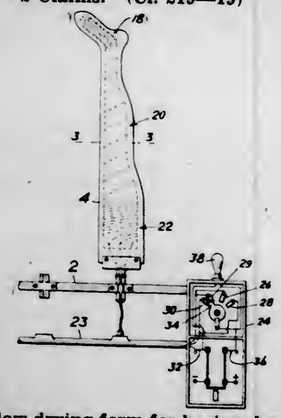
the other side of the car bear whereby the car is positively deflected off the main conveyer.

1,941,892
PROCESS FOR MANUFACTURING METAL CLIPS
Herman L. Greve, Hollis, N. Y., assignor to International Mailing Tube and Wrapper Company, Long Island City, N. Y.
Application January 7, 1931. Serial No. 507,109
2 Claims. (Cl. 153—2)



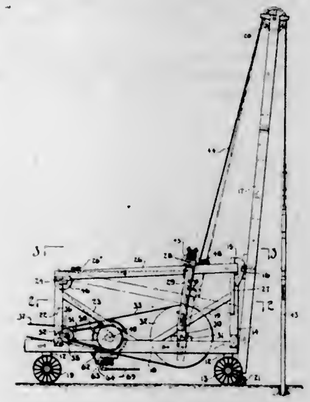
2. The process of making a metal clip consisting in stamping the clip from a strip of metal, simultaneously imparting transverse and parallel initial bends to the clip in opposite directions, and simultaneously forming and bending fastening prongs from the body of the clip at each side of one of said initial bends intermediate the width of the clip.

1,941,893
HOSIERY DRYING APPARATUS
Paul Guggenheim, Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, Philadelphia, Pa., a corporation of Delaware
Application April 9, 1930. Serial No. 442,733
2 Claims. (Cl. 219—19)



1. A hollow drying form for hosiery having different electrical heating means therein adapted, when subjected to the same terminal voltage, to impart different total amounts of heat to the form, said different heating means comprising similarly arranged conductors of different resistance, each conductor comprising a wire doubled upon itself and supported within the drying form with its terminals at the bottom of the form, the conductors being wound so that the turns of one lie between the turns of the other, and means for alternatively connecting either conductor to a supply line.

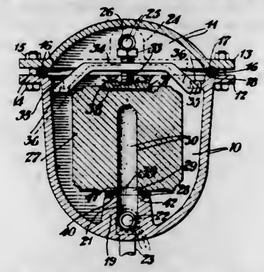
1,941,894
DRILLING MACHINE
George Heinish, Cuyahoga Falls, and Leo A. Krupp, Akron, Ohio, assignors to The Star Drilling Machine Company, Akron, Ohio, a corporation of Ohio
Application January 24, 1931. Serial No. 510,916
1 Claim. (Cl. 255—7)



A drilling machine including a mast, a pivotally mounted spudder beam, a bull reel, and a drill rope on said reel, said mast having a sheave thereon above the spudder beam, said spudder beam having longitudinally spaced sheaves thereon, one adjacent the reel and the other adjacent the mast, and said drill rope extending from the bull reel about the first-named sheave to the second-named sheaves and then over the sheave on the mast and having a drilling tool on the free end thereof, the sheaves on the spudder beam being mounted thereon for substantial transverse axial movement, the sheave adjacent the reel being movable to a greater extent than the sheave adjacent the mast to follow the side play of the drill rope to maintain the drill rope stretches between the reel and the first-named sheave, between the sheaves on the spudder beam and between the spudder beam and the mast in substantial alignment in a vertical plane at all times as the drill rope is wound or unwound from the reel.

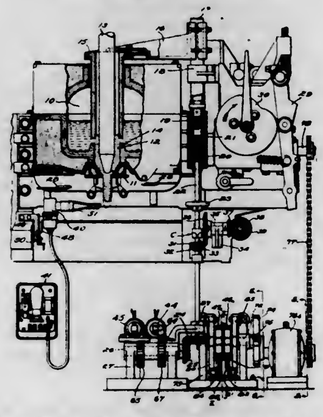
1,941,895
FILTER
Oscar Hennings, Montclair, N. J.
Application November 20, 1930
Serial No. 496,882
7 Claims. (Cl. 210—112)

7. A filter comprising a casing having an inlet and an outlet, a filter block mounted in the casing spaced away from the walls thereof, a draining recess in the filter block in communication with the outlet, means for clamping the filter block in said casing, said means embodying means for electrically insulating said filter block



from the casing to thus prevent electrolytic action.

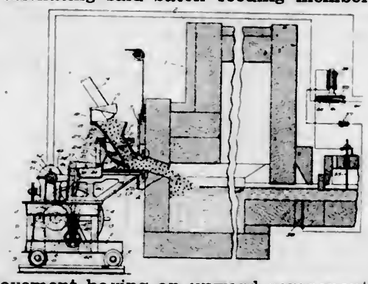
1,941,896
PHOTO-ELECTRIC CONTROL OF GLASS FEEDERS
Everett O. Hiller, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application June 10, 1931. Serial No. 543,255
8 Claims. (Cl. 49—55)



1. In mechanism for automatically feeding molten glass in suspended mold charges, a container for the glass having an orifice in the bottom thereof, means for regulating the discharge of the glass through and into suspension from the orifice including heating means within the container, and means out of contact with the glass but directly responsive to variations in the characteristics of the suspended masses for automatically regulating the heating means to correct said variations.

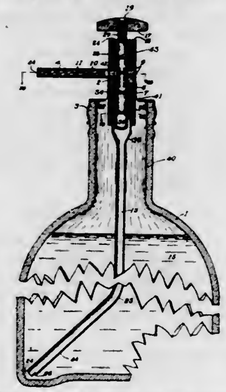
1,941,897
APPARATUS FOR FEEDING BATCH TO GLASS MELTING FURNACES
Everett O. Hiller, Windsor, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application October 27, 1932. Serial No. 639,778
16 Claims. (Cl. 49—54)

1. A batch feeder comprising a batch feed chamber having an outlet at one end for delivering batch to a glass melting furnace or tank, a batch feeding member of plate-like form adapted to be moved edgewise in the batch in the chamber toward and away from said outlet, and means for oscillating said batch feeding member with



a movement having an upward component during the retractive stroke thereof.

1,941,898
SPRAYING DEVICE
Carl Iddings, Kew Gardens, N. Y.
Application September 23, 1932
Serial No. 634,597
6 Claims. (Cl. 299—95)



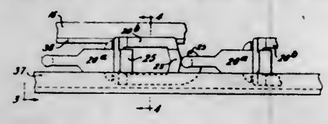
4. In combination, a valve comprising a housing having a chamber, an outlet nozzle and a valve stem guide forming a passage from the chamber to the nozzle, a valve stem loosely fitted into the guide, and having a non-circular portion extending into the chamber, a valve disk carried by said stem controlling the flow from the chamber to the nozzle, and a fluid conveying tube inserted into the chamber, said tube having a non-circular orifice into which the non-circular portion of the stem extends, thereby limiting the stem to a reciprocating movement.

6. In combination, a container, a valve housing secured to the container, a valve in said housing, said valve having a regulating stem with a non-circular end, and a fluid conveying tube extending into the container, said tube having a rolled end with a non-circular orifice inserted into the bottom of said housing so that the non-circular end of the stem protrudes through the orifice thereby limiting the stem to a reciprocating movement for opening and closing the valve.

1,941,899
CONVEYER
Chester S. Jennings, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts
Application April 6, 1931. Serial No. 527,862
2 Claims. (Cl. 198—189)

1. A conveyer chain made up of a plurality of links, each link having a recess adapted to re-

ceive the tooth of a sprocket and bounded by side and end walls, one of said side walls being extended to form a hook beyond one end wall, said end wall extending in a plane at right angles to the plane of the hook and side walls and the other end wall being substantially cylindrical

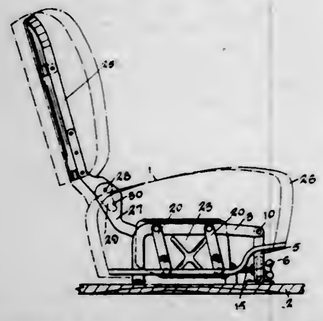


and extending in a plane parallel to that of the hook and side walls, said last named end wall being adapted to be engaged by the hook of one adjoining link, and the end wall thereof which extends in a plane at right angles to the plane of the hook.

1,941,900
TESTICULAR EXTRACT AND METHOD OF MAKING THE SAME
Fred C. Koch, Lemuel C. McGee, and Thomas F. Gallagher, Chicago, Ill., assignors to University of Chicago, a corporation of Illinois
No Drawing. Application May 3, 1929
Serial No. 360,366
7 Claims. (Cl. 167—74)

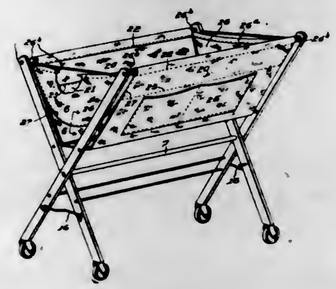
1. The method of concentrating and purifying a testicular hormone which comprises removing the protein constituents from the testicular tissue, and extracting the testicular hormone from the residue at least once with a fat solvent, and removing the fat solvent.

1,941,901
VEHICLE CHAIR
Edward M. Knabusch and Edwin J. Shoemaker, Monroe, Mich., assignors to Floral City Furniture Company, Monroe, Mich., a corporation of Michigan
Application August 12, 1931. Serial No. 556,622
1 Claim. (Cl. 155—9)



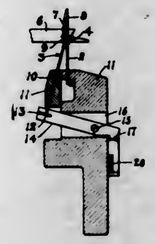
In a vehicle chair, a frame comprising a bar, the bar having parts located on opposite sides of the bottom of the chair and a part extending crosswise beneath the bottom of the chair and supported on the vehicle, arms connected to the vehicle and pivotally connected to the ends of the bar for pivotally supporting the ends of the bar and for pivotal movements of the body of the chair, two pairs of links connected to the said parts of the bar located at the sides of the bottom of the chair, and to the chair bottom at a point below the parts of the bar to which the links are connected for oscillatable movements of the body of the chair.

1,941,902
BABY CARRIER
Willis A. Lewis, Christiana, Pa.
Application August 17, 1932. Serial No. 629,203
9 Claims. (Cl. 5—98)



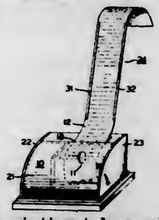
1. In a folding bed, the combination of a head member and a foot member, each comprising a pair of pivotally connected crossed legs, a pair of parallel side rails rigidly connecting together the upper ends of the complemental legs of said head and foot members respectively and two parallel tie rods also respectively connected together to said complemental legs below said rails, a supporting sheet extending substantially the full length of said rails between said heads, and fitting snugly against the undersides of said tie rods and having its side edges securely attached to said rails respectively, a bottom sheet having its side edges securely attached to said supporting sheet parallel to said rails and hanging from said edges between said rails and clear of said tie rods and end pieces of fabric respectively closing the head and foot ends of said bed from said bottom sheet to substantially the level of said side rails.

1,941,903
AUXILIARY KNITTING NEEDLE
Karl Rich. Lieberknecht, Oberlungwitz, Germany, assignor to Kalio Inc., New York, N. Y., a corporation of New York
Application June 26, 1933, Serial No. 677,589, and in Germany February 9, 1933
5 Claims. (Cl. 66—82)



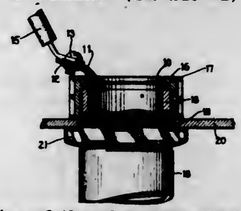
1. In a flat knitting machine having a needle bar provided with the usual needles and sinkers, an auxiliary loop forming needle slidably mounted on said needle bar behind a usual needle and means for sliding said auxiliary needle upward into loop forming position and downward into an inoperative position.

1,941,904
TAPE EASEL FOR PAGE PRINTERS
James W. Long and Thomas G. Collings, Plainfield, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application July 8, 1932. Serial No. 621,466
10 Claims. (Cl. 178—24)



1. In a page printing telegraph receiver, a continuous page, means to print lines across said page, means to feed the page upward past said printing means to form line spacing on said page, and means forming an easel of a length several times its width above said printing means for guiding said page upwardly and supporting a section of the same after it has passed said printing means, said line printing means acting to push the tape upwardly over said easel and being the sole means for motivating said tape.

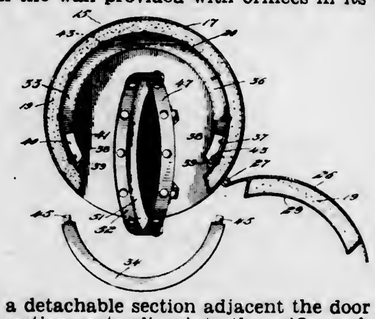
1,941,905
GROUNDING DEVICE FOR ELECTRICAL WIRING SYSTEMS
John E. Mair, Mars, Pa., assignor to National Electric Products Corporation, New York, N. Y., a corporation of Delaware
Application December 5, 1930. Serial No. 500,237
5 Claims. (Cl. 247—1)



1. A device of the class described including a bushing provided with a sleeve-like portion and an inwardly extending shouldered portion and a member within said bushing provided with an end portion disposed under the shuoldered portion, a ground connection device comprising a band portion which peripherally fits the sleeve-like inside portion of the bushing and which has its upper and lower faces clamped by the inwardly extending shoulder of the bushing and by the upper end portion of the aforesaid member, and a projecting lip portion from said band portion extending beyond said shouldered portion of the bushing and in accessible position above the said shouldered portion for receiving a ground wire connection.

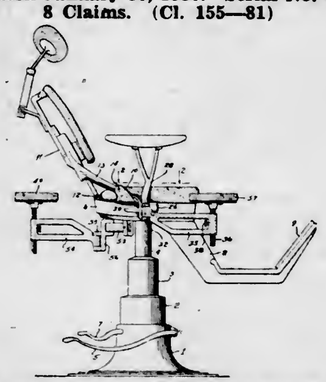
1,941,906
REFRIGERATOR
Isaac Marinsky, Providence, R. I., assignor of one-half to Samuel I. Cohen, Providence, R. I.
Application June 23, 1933. Serial No. 677,237
6 Claims. (Cl. 312—183)

6. In a refrigerating chamber, a cylindrical wall provided with an opening, a door in the opening, an annular track comprising a section upon the wall provided with orifices in its ends,



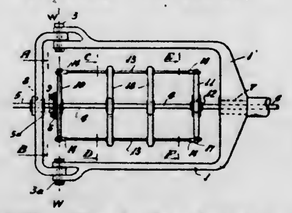
and a detachable section adjacent the door having portions extending into the orifices whereby it is supported by the first section.

1,941,907
SEAT ATTACHMENT FOR DENTAL CHAIRS AND THE LIKE
Benjamin J. Martin, Beechhurst, N. Y.
Application January 30, 1930. Serial No. 424,487
8 Claims. (Cl. 155—81)



1. A chair having its seat frame supported for pivotal movement about a horizontal axis and an auxiliary seat supported on said frame at a point substantially in line with said axis for pivotal movement therewith about said axis.

1,941,908
COUPLING FOR SHAFTS FORMING ANGLES
César Martinto, Buenos Aires, Argentina
Application July 29, 1932, Serial No. 626,039, and in Argentina July 5, 1932
6 Claims. (Cl. 64—91)



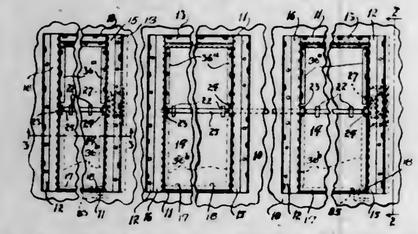
1. A coupling for shafts adapted to form a variable angle with respect to each other, including in combination, a driving shaft, a driven shaft, a stationary bearing member for said driv-

ing shaft, a bearing member for said driven shaft pivotally connected to said stationary bearing member so as to be swingable upon the same upon the meeting point of the axes of the driving and driven shafts, one or more propulsion members fixed upon the driving shaft between the connected bearing members so as to rotate with said shaft, a rotated member fixed upon the driven shaft at said meeting point of both shafts, plural transmission means connected to said rotated member and disposed in contact with said propulsion members to transmit movement from the latter to said rotated member, and guide means loose upon the driving shaft and connected to said plural transmission means in order to retain the same in parallelism with the driving shaft.

1,941,909
OPERATOR FOR VENTILATORS

Robert S. Peelle, Hollis, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a corporation of New York

Application April 10, 1931. Serial No. 529,013
9 Claims. (Cl. 98—49)

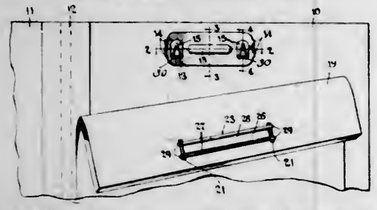


1. An operator for ventilators embodying therein a shaft extending transversely of the ventilator opening, means connecting and supporting a shutter from said shaft, bars projecting beyond the wall at the side of the ventilator opening, bearings for said shaft in said bars, a housing carried by one of said bars, a reversible electric motor within said housing, a gear train between said motor and said shaft, a source of power, electrical connections between said source of power and said motor, and a control remote from said motor included in said electrical connections.

1,941,910
FILING DEVICE

Fred A. Pettis, Buffalo, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.

Application March 2, 1931. Serial No. 519,530
8 Claims. (Cl. 129—25)

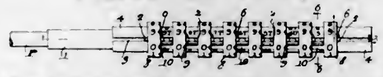


8. A filing device, comprising a fastener for detachably binding a plurality of sheets having a base portion, and a retaining plate having struck out portions forming cooperating members for resiliently engaging over the opposite side of said base portion of the fastener when said fastener is seated on one face of said plate and detachably connecting and retaining said fastener in superposed relation on said plate.

1,941,911
CALCULATOR

Jorge Quijano, Mexico, Mexico

Application December 30, 1929, Serial No. 417,454, and in Mexico December 31, 1928. Renewed August 25, 1932
8 Claims. (Cl. 235—64)



1. A calculator including a core, rings rotatably mounted thereon and annular columns of characters around the core, said characters representing respective factors and marking along the columns distances proportional to the tens of the corresponding products and distances proportional to the units of same products.

1,941,912
NONSLIPPING SURFACE AND METHOD OF MAKING THE SAME

Daniel Repony, Clifton, N. J., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey

Application January 8, 1932. Serial No. 585,448
9 Claims. (Cl. 154—2)



1. An article of manufacture having a rough surface which comprises a textile fabric having a nap and a base and a flexible coating material covering at least the ends of the threads of said nap without destroying the character of the nap as such and leaving said threads or groups of threads separate and upstanding from the base.

7. A method of making a friction article which comprises forming a nap upon a base fabric, coating said nap with a friction surface material and separating the threads of said nap after the coating material is applied thereto.

1,941,913
ELECTRIC CABLE

Thomas Nixon Riley, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

No Drawing. Application August 29, 1930, Serial No. 478,775, and in Great Britain March 5, 1930
3 Claims. (Cl. 91—70)

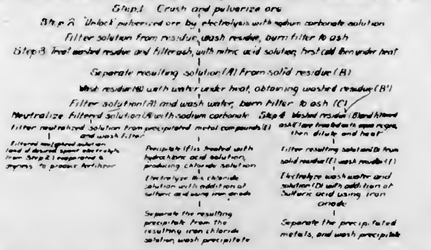
1. A method of impregnating an electric cable comprising applying a vaporizable material to the conductive core, surrounding said core with insulation, subjecting the insulated core to a drying operation under a predetermined diminished pressure and at a predetermined temperature, raising the temperature and decreasing the pressure and then introducing an impregnating medium into said cable.

1,941,914
ELECTROCHEMICAL PROCESS FOR THE RECOVERY OF METALS FROM ORES AND OTHER METAL BEARING MATERIALS

Richard Rodrian, New York, N. Y., assignor of one-half to Herman H. Butterman, New York, N. Y.

Application September 27, 1926, Serial No. 138,127. Renewed March 6, 1933
6 Claims. (Cl. 204—15)

1. The herein described process which consists in effecting an electrolytic unlocking of the metal-bearing material, then treating the unlocked material with nitric acid, treating the residue with aqua regia for dissolving the metals left, especially gold and platinum, adding sul-

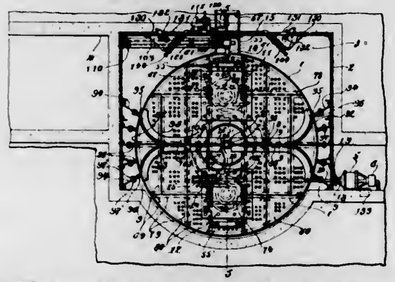


furic acid to the clear aqua regia metal solution and electrolyzing this solution for precipitation of the metals with an iron electrode as anode, leaving the iron in solution.

1,941,915
HYDRAULIC CORE KNOCKOUT AND CLEANING APPARATUS FOR CASTINGS AND THE LIKE

William A. Rosenberger, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland

Application April 2, 1930, Serial No. 440,951
Renewed November 4, 1933
15 Claims. (Cl. 141—1)



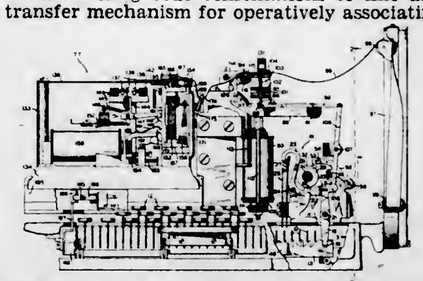
3. The combination in a hydraulic apparatus for cleaning castings of a housing having an opening for admitting the castings on one side, a nozzle within the housing on the other side, a rotatable table projecting beyond said opening, means for supporting a casting on each side of the table, the table having an upright partition between said supports, the partition being of sufficient size and of the proper shape to close the cross section of the housing between said nozzle and said opening, means for projecting water against the castings within the housing, means for sealing the closure between said partition and said housing, and means for deflecting the water from said sealing means.

1,941,916
COMBINED KEYBOARD TRANSMITTER AND PERFORATED TAPE TRANSMITTER

Samuel W. Rothermel, Lynbrook, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application November 27, 1931
Serial No. 577,611
19 Claims. (Cl. 178—17)

1. In a telegraph transmitter, a keyboard, a code selector controlled thereby, a distributor controllable by said selector for transmitting code combinations to line, a storage transmitter controllable by said selector, said distributor also being controllable by said storage transmitter for transmitting code combinations to line and a transfer mechanism for operatively associating

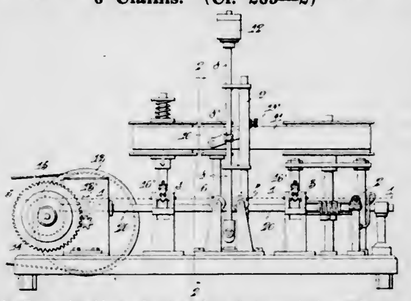


said selector and distributor with said storage transmitter or for rendering said storage transmitter nonoperative in response to said selector and for operatively associating said selector directly with the distributor only.

1,941,917
MEANS OF DETERMINING THE EVENNESS OF TEXTILE THREADS

Peter Albert Schultz, Arnhem, Netherlands, assignor to American Glanzstoff Corporation, New York, N. Y., a corporation of Delaware

Application November 14, 1930, Serial No. 495,799, and in Germany December 24, 1929
6 Claims. (Cl. 265—2)



4. In a testing device for determining the quality of threads, in combination, spaced thread clamps, spaced anti-friction rollers mounted therebetween, means to successively introduce lengths of threads to the said clamps and anti-friction rollers, the said clamps and rollers being in the same horizontal plane, a support located between and above the spaced anti-friction rollers, a tensioning device slidably secured to the said support and movable perpendicularly to the length of the thread held by the said clamps and means associated therewith to record the elongation of the thread caused by the pressure of the tensioning device against the thread.

1,941,918
VALVE GRINDING MACHINE

Emil F. Schwakopf, Brooklyn, N. Y., assignor to The Hall Manufacturing Company, Toledo, Ohio, a corporation

Application May 22, 1931. Serial No. 539,221
8 Claims. (Cl. 51—241)

1. Valve grinding mechanism comprising a valve pilot means, a motor carried by the pilot, a grinding tool, a transmission between the motor and tool driven by the motor armature, a trans-

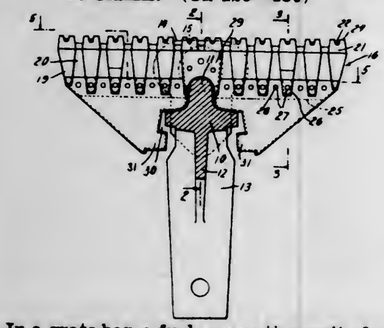
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mission mounting carried by the pilot to rotate about the axis of the pilot, and means to mount



the motor housing upon the transmission mounting yieldingly.

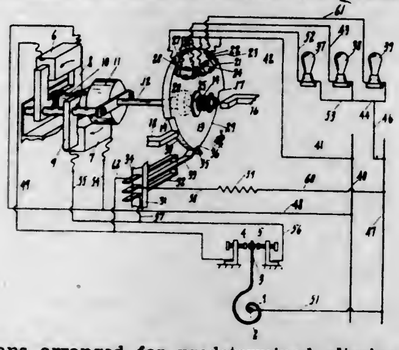
1,941,919
GRATE
James S. Thompson, New Rochelle, N. Y., assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application August 19, 1930. Serial No. 476,263
15 Claims. (Cl. 126—180)



1. In a grate bar, a fuel-supporting unit of plate form having a solid metal top and a hollow bottom of sheet stock, said top having a portion lying within said bottom and in contact with the inner walls thereof, said portion and said bottom having integral interengaging parts permanently anchoring said top and bottom together.

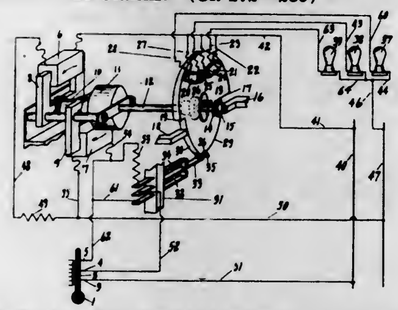
1,941,920
MOTOR-OPERATED RELAY
Christian Wilhjelm, Philadelphia, Pa., assignor to Gustav H. Johanson, trustee
Application July 22, 1930. Serial No. 469,835
15 Claims. (Cl. 172—239)

15. In a motor operated relay in combination, means establishing two primary operating circuits, means establishing three operated secondary circuit conditions, means operatively associated with the primary circuits, means to establish a predetermined secondary circuit condition when one of the primary circuits is closed, said last mentioned means arranged to establish another predetermined secondary circuit condition when the other of the said primary circuits is closed means establishing opposing primary circuits effective upon the disruption of an associated primary circuit, and said last mentioned



means arranged for predetermined altering of the respective secondary circuit condition when the corresponding primary circuit is broken.

1,941,921
MOTOR OPERATED RELAY
Christian Wilhjelm, Philadelphia, Pa., assignor to Gustav H. Johanson, trustee
Application July 22, 1930. Serial No. 469,836
16 Claims. (Cl. 172—239)

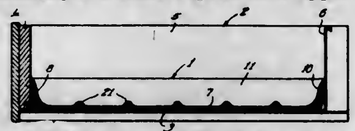


16. In a motor operated relay in combination with two primary operating circuits and three secondary operated circuits, means in connection with the primary circuits to maintain one of the secondary circuits closed while none of the primary circuits are closed, means for opening said secondary circuit when one of the primary circuits is closed and sequentially to close another of the secondary circuits, further means for opening said second secondary circuit and closing the third secondary circuit when both primary circuits are closed, with still further means for closing in reverse sequence said secondary circuits as first one then the other primary circuit is broken.

1,941,922
DRAWER LINING OR THE LIKE
Leo F. Worth, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application November 14, 1932
Serial No. 642,577
4 Claims. (Cl. 45—7)

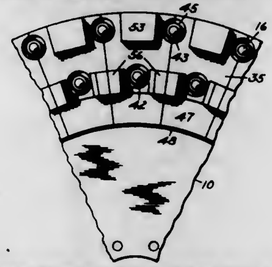
1. As an article of manufacture, a drawer lining or the like embodying a tray-like member of elastic material having a bottom wall and integral side walls extending upwardly therefrom, said side walls where they join the bottom wall being

thicker than the bottom wall and being tapered substantially to a knife-edge at their upper edges,



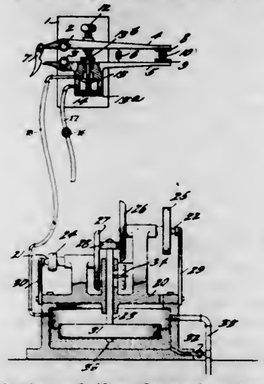
said upper edges being flared laterally away from the bottom wall.

1,941,923
BEATER ELEMENT FOR PULVERIZING APPARATUS
James W. Armour, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application February 19, 1931. Serial No. 516,893
2 Claims. (Cl. 83—11)



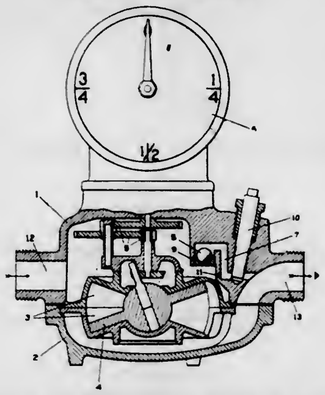
1. A beater element for a pulverizing apparatus comprising a rotor wear plate shaped as a circular ring sector, an integral peg extending from one face of the plate near the outer peripheral edge thereof, and a pair of pegs extending from said face and spaced inwardly from the first peg toward the axis, all of said pegs being located in a symmetrical arrangement relative to the radial center line of the plate.

1,941,924
APPARATUS FOR MAINTAINING THE THICKNESS OF DRAWN GLASS
Jules Arrault, Chalon-sur-Saone, France, assignor to Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France
Application November 9, 1929, Serial No. 406,012, and in France November 16, 1928
3 Claims. (Cl. 49—17)



1. In a device of the character described for automatically maintaining substantially constant the thickness of drawn glass, the combination with a pair of pivoted arms having rubbing blocks in opposite sides of the glass, and forming a caliper, a valve structure carried by the caliper, means controlled by the degree of separation of the rubbing blocks determining the position of the valve, a variable speed drive, including a floating member, and means controlled by the valve determining the position of the floating member.

1,941,925
LIQUID METER
Robert S. Bassett, Buffalo, N. Y.
Application November 20, 1930
Serial No. 496,973
1 Claim. (Cl. 73—98)

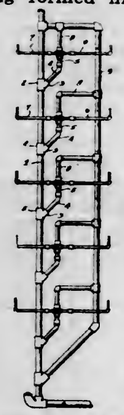


In a meter used to measure liquids at high and low rates of flow, the combination with a semi-positive liquid operated measuring mechanism having inlet and outlet passages, of a by-pass duct connecting said passages around said mechanism and having a restricted inlet opening, a calibrating valve in said by-pass duct whereby the relative rate of flow through said duct as compared with the rate of flow through said mechanism is adjustable, a secondary branch by-pass duct potentially connecting said first by-pass duct at a point ahead of said calibrating valve with said inlet passage and valve means for reducing the capacity of said secondary branch by-pass duct automatically in accordance with reduction through a predetermined range of total flow through said by-pass ducts and said mechanism, substantially as and for the purpose described.

1,941,926
DRAINAGE SYSTEM AND FITTING THEREFOR
Edward W. N. Boosey, Detroit, Mich.
Application November 4, 1929. Serial No. 404,566
5 Claims. (Cl. 4—211)

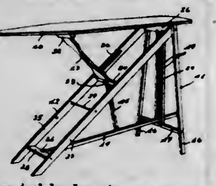
1. A drainage system comprising a waste stack, a vent stack, a fitting to which fixtures discharge waste water, a conduit connecting the bottom end of the fitting to the waste stack, and a conduit of the same general diameter as the fitting connecting the upper end thereof to the vent stack, said fitting including a side branch of the same general diameter as the body of the fitting and having a vent conduit opening at one end to the upper side of the branch and at its other end to the upper end of the body, and side projections extending beyond the general internal diameter of the body for connecting discharge

conduits of other fixtures, the said last named connections being formed in the body of the



fitting above the line of flow through the side branch.

1,941,927
FOLDING TABLE
John F. Bradbury, Marysville, Mich.
Application November 2, 1931. Serial No. 572,674
7 Claims. (Cl. 68—10)



1. A folding table having a top section, a supporting section for the top section having one end thereof pivotally connected to the latter adjacent one end of the same for movement from a collapsed position adjacent the under surface of the top section to an extended position wherein the same extends diagonally downwardly toward the opposite end of the top section, means connecting the forward end portion of the top section to the supporting section including a diagonal brace having one end pivotally connected to the top section and having the opposite end slidably engaging the supporting section intermediate the ends of the same, and an operating bar pivotally connected to the supporting section adjacent the free end thereof and operatively connected intermediate the ends to the sliding end of said brace whereby movement of the operating bar about its pivotal connection aforesaid effects a relative movement of the top and supporting sections to the aforesaid positions thereof.

1,941,928
MATERIAL FOR SCOURING DEVICES
Edward S. Bradford, Jr., Long Meadow, Mass., assignor to Springfield Wire & Tinsel Co., West Springfield, Mass., a corporation of Massachusetts
Application November 20, 1931
Serial No. 576,291
7 Claims. (Cl. 117—52)

1. The combination in a scouring strand, a spring formed of metal filament coiled into form to serve as a thread-like core and a covering material of metal filament loosely wound about the core, said spring core normally lying in twisted formation and the covering material normally



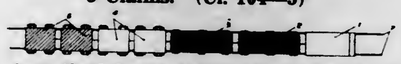
held in the same formation by said spring core, said combination being stretchable to straighten out from and return to said double coiled strand formation.

1,941,929
NONREFILLABLE CONTAINER
Isaac J. Burdick, Saratoga Springs, N. Y.
Application April 13, 1933. Serial No. 666,006
9 Claims. (Cl. 221—28)



4. A container as set forth comprising a receptacle having a discharge opening and having a vent opening opposed to said discharge opening, a closure for said discharge opening, a closure for said vent opening and connecting means connecting the two closures together.

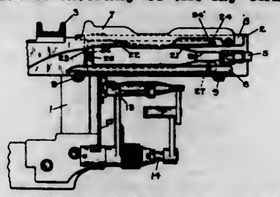
1,941,930
METHOD AND MEANS FOR REPLACING RAILROAD RAILS
Pierre Collet and René Loiseau, Paris, France; said Collet assignor to Les Fils D'Albert Collet, Paris, France, a company of France
Application July 15, 1932, Serial No. 622,792, and in France July 18, 1931
3 Claims. (Cl. 104—5)



1. A method for replacing railroad rails comprising laying the new rails to form service tracks, carrying rail removing and track preparing devices parallel to the track under replacement, removing the old rails from the track under replacement with the rail removing device, preparing the said track for the new rails and shifting the new rails in place on the said track with the track preparing device.

1,941,931
LAY FOR BOBBIN CHANGING LOOMS
Harry A. Davis, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application January 18, 1933. Serial No. 652,344
10 Claims. (Cl. 139—241)

1. A metal lay end having a picker stick slot extending longitudinally thereof, and a separate shuttle supporting member secured thereto and having a picker stick slot therein, a portion of said last mentioned slot being relatively narrower than the first said slot, the said member being adjustable laterally of the lay end to vary



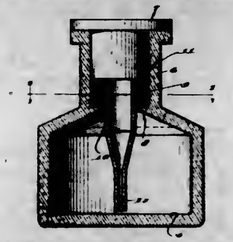
the relative positions of the two said picker stick slots.

1,941,932
LOCK
Emerich Deutsch, Vienna, Austria
Application February 23, 1933, Serial No. 658,159, and in Austria July 6, 1932
2 Claims. (Cl. 70—14)



1. In a lock, a front plate having an opening therein, a key receiving member rotatably fitting in said opening and having a flange on its inner end bearing against the rear face of the front plate around said opening, and a lock bolt slidably mounted on the rear face of the front plate and bearing on the rear end of the key receiving member to hold the same in place, said lock bolt having an opening to allow a key to project through the said opening in the said lock bolt when inserted in said key receiving member.

1,941,933
BOTTLE
William Douglas, Port Angeles, Wash.
Application April 12, 1930. Serial No. 443,819
5 Claims. (Cl. 120—69)



1. A liquid dispensing device comprising a container having an opening in the upper end thereof, a chamber located within the container adjacent the open upper end thereof, a tubular member connecting said chamber with said container adjacent the bottom of the latter, and a cap for the open end of the container having a piston-like portion fitting into the chamber for building up a pressure in the container above the liquid therein tending to force the liquid into the chamber whereby removal of the piston-like portion aforesaid from the chamber causes a quantity of the liquid in the container to flow into said chamber.

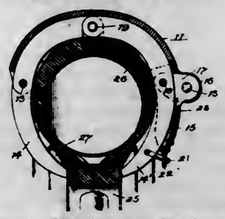
1,941,934
PROCESS OF GEMMING INSOLES
Elmer A. Ellis, Medford, Mass.
Application October 31, 1930. Serial No. 492,428
1 Claim. (Cl. 12—146)

The improved process of making gemmed insoles, comprising the steps of channeling an insole blank to form a sewing rib, then coating the flesh side of said blank with an adhesive capable of adhering to unprimed textile material, applying to the channeled and coated blank a textile reinforcing layer having an unprimed portion and an edge portion treated with an adhe-



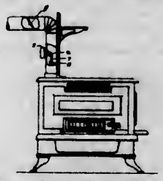
sive to prevent the edge from unraveling, fitting the unprimed portion to the base of the sewing rib and a part of the adhesive coated edge being adjacent the top of the sewing rib, trimming off the surplus reinforcing material, and completing by the usual processes.

1,941,935
TRACTION DEVICE
Christian F. Erickson, Grand Forks, N. Dak.
Application April 27, 1933. Serial No. 668,260
8 Claims. (Cl. 152—14)



1. A traction device for a wheel comprising a cleat; a pair of clamping jaws pivoted to each other; and a locking lever, said lever being pivotally connected to said cleat and to one of said jaws, the other of said jaws being pivoted to said cleat.

1,941,936
SMOKE ELIMINATOR AND FUEL ECONOMIZER
Walter E. Frost, Auburn, Maine, assignor of one-half to Guy M. Foss and one-fourth to Harold B. Libby, both of Auburn, Maine
Application February 6, 1931. Serial No. 513,967
1 Claim. (Cl. 110—58)



A device of the character described adapted to be installed on and operated in connection with heating apparatus comprising in combination with the smoke-conducting funnel, therefor, a funnel damper, a cylindrical member, having a head on one end, mounted on said funnel, a transverse partition in said member constituting one end of a chamber in said member, apertures in said partition adapted to admit air to said chamber, a cylindrical skirt extending from the peripheral wall of said member toward but spaced from said funnel, said skirt surrounding a space the air in which is adapted to be raised in temperature by radiated heat from said funnel before entering said chamber, a pipe secured to said partition and extending through the wall of

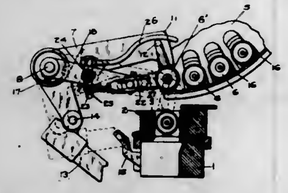
said funnel into the gas-passage-way therein, said pipe being positioned at a point located between the fire-pot for said heating apparatus and the funnel damper therefor, a second pipe disposed in said funnel, depending from said first pipe, a cap on the lower end of said second pipe, and an aperture in said cap of less area than the inside area of said second pipe, adapted to serve as the discharge orifice for air from said device.

1,941,937

FILLING CARRIER SUPPORT FOR LOOMS

Luther E. Gatlin, Newberry, S. C., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application January 25, 1933. Serial No. 653,463
7 Claims. (Cl. 139—251)



1. In a replenishing mechanism for filling replenishing looms, a hopper for holding a reserve supply of filling carriers, a fixed stud, a transferrer pivoted on said stud, an arm fixed to the stud, a finger reciprocatably supported by the said arm for engaging the filling carrier next to be transferred and holding it in place in the said hopper, and means for withdrawing the said finger from engagement with the filling carrier during the transferring operation.

1,941,938

CONVEYING APPARATUS

Karl Heinemann, Dresden, Germany

Application January 21, 1931, Serial No. 510,291, and in Germany February 28, 1930
8 Claims. (Cl. 198—161)



5. A conveyer comprising a movable element adapted to be charged with the material to be conveyed, means for charging the material near the delivery end of the conveyer, and a conveying device acting in a direction parallel to and opposite the direction of and in certain distance above the said conveyer.

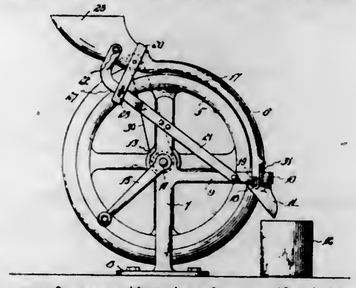
1,941,939

NUT HUSKING MACHINE

Jacob B. Hershey, Kinzers, Pa.

Application July 9, 1932. Serial No. 621,711
8 Claims. (Cl. 146—11)

1. A nut husking machine comprising a wheel rotatable in a supporting frame and having a rim with concavities inclined downwardly at opposite sides of the center thereof, rub-irons or concaves supported in spaced relation to said concavities for the passage of the nuts therebetween and spaced from the side edges of the rim for discharging the husks, the nuts being discharged at the lower ends of the rub-irons,



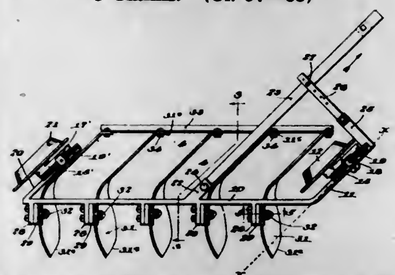
and means for exerting tension on the lower ends of the rub-irons.

1,941,940

PLOW

Levi C. Hester, Jacksonville, Fla.

Application May 4, 1932. Serial No. 609,246
3 Claims. (Cl. 97—53)



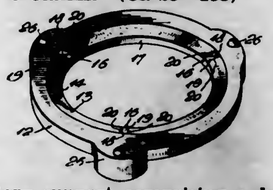
1. A plow of the disk type comprising a frame, a plurality of blades rigidly secured to the frame, a wheel carried by the frame at each end thereof, one of said wheels being outside of the frame and the other wheel being within the frame and in advance of one of said blades whereby the last named wheel rides on firm ground.

1,941,941

WARE SUPPORT FOR KILNS

William W. Irwin, East Liverpool, Ohio

Application April 22, 1931, Serial No. 532,096
Renewed August 7, 1933
3 Claims. (Cl. 25—153)



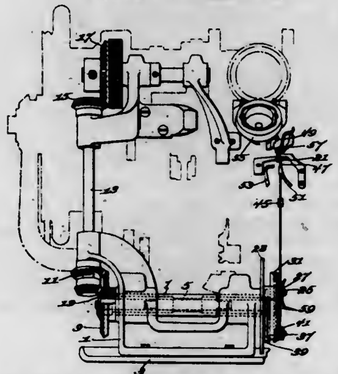
1. A pottery support comprising a horizontal ring, the upper side of said ring having a plurality of radial grooves open at their inner ends and closed at their outer ends, said grooves having flat bottoms, and a plurality of straight flat-sided pins of substantially equi-lateral triangle shape in transverse section and having their outer ends cut at right angles to their lengths, said pins lying in and being upwardly removable from said grooves and having their outer ends disposed against the closed outer ends of said grooves, each pin having a base side lying upon the flat bottom of its respective groove to upwardly present one edge of the pin, the upper inner corner portions of said pins being exposed above said grooves and providing a plurality of single-point supports for the ware.

1,941,942

SEWING MACHINE

Frank Bycroft Keall, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application July 19, 1932, Serial No. 623,377, and in Great Britain August 12, 1931
11 Claims. (Cl. 112—57)



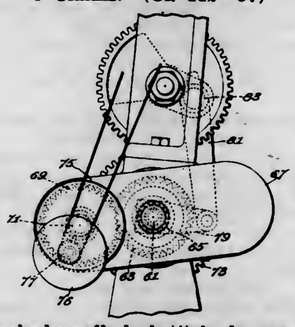
1. A hooked needle lockstitch shoe sewing machine having, in combination, stitch forming devices including a hooked needle, needle threading mechanism, a shuttle, and a take-up comprising a thread engaging member, a member mounted to rotate about a fixed axis upon which the thread engaging member is carried, and means acting on the thread engaging member to cause it to move in a closed path which is non-symmetrical about the axis of rotation of the said rotating member.

1,941,943

SEWING MACHINE

Frank Bycroft Keall and Harold Ernest Elliott, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application July 19, 1932, Serial No. 623,378, and in Great Britain December 18, 1931
5 Claims. (Cl. 112—57)



1. A hooked needle lockstitch shoe sewing machine having, in combination, stitch forming devices including a hooked needle, needle threading mechanism, a shuttle, and a take-up comprising a rotary member arranged to move bodily in a circular path, a thread engaging member mounted eccentrically on said rotary member, and means for rotating the rotary member at varying speeds and for moving it bodily in said circular path to cause said member to pull the needle loop from the shuttle and set the stitch, and to give up thread in timed relation to the thread handling movements of the needle, shuttle and needle threading mechanism.

1,941,944

CUP-LIKE WRAPPING ELEMENT FOR SWEETMEATS AND THE LIKE

Alexander Kenny, Hammersmith, London, England, assignor to Fuller's Limited, London, England

Application September 24, 1932, Serial No. 634,767, and in Great Britain March 14, 1932
2 Claims. (Cl. 229—21)



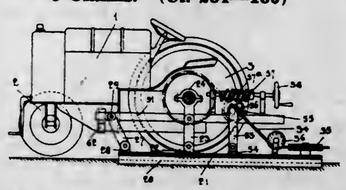
1. A cup-like container for candies having a bottom and upwardly and outwardly flaring side wall, the side wall at one point having an integral upwardly extending flat tab disposed at the same inclination as the wall of the cup and constituting a handle, the side wall of the cup being crimped, and the crimp being interrupted at said handle.

1,941,945

DEVICE FOR TRANSFORMING MOTOR TRUCKS AND SIMILAR VEHICLES INTO WINCHES

Marcel Landrin, Paris, France

Application March 3, 1932, Serial No. 596,615, and in France March 13, 1931
6 Claims. (Cl. 254—166)



1. In a motor vehicle having a frame, two driving wheels journalled on said frame, a device for rapidly transforming said vehicle into a motor winch which comprises in combination, winding drums fixed to the driving wheels of the vehicle respectively, cables adapted to cooperate with said winding drums respectively, a false frame adapted to be lowered and raised with respect to said frame of the vehicle so as to lift all of the wheels of the vehicle above the ground when it is in its lowered position, and a plurality of turn pulleys and guiding pulleys for said cables pivoted to said false frame.

1,941,946

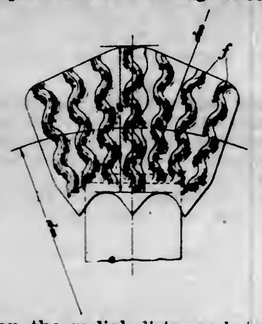
LUBRICATING OF AXLE BEARINGS FOR RAIL VEHICLES

Walter Lehmann, Barmen, Germany, assignor to Walter Peyinghaus, Egge, Germany

Application August 5, 1931, Serial No. 555,304, and in Germany August 5, 1930
2 Claims. (Cl. 308—86)

2. Centrifugal lubricating means for the axle bearings of rail vehicles, comprising a centrifugal

arm secured radially to the axle of the vehicle, an oil thrower plate at the outer end of the centrifugal arm, and corrugations in the oil thrower plate, the corrugations being so arranged and of such depth that the path actually traversed by drops of oil in passing from the inner edge of the oil thrower plate to the outer edge is considerably



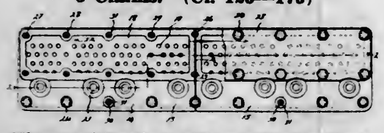
greater than the radial distance between these edges, the corrugations differing from one another in different sectors of the oil thrower plate, so that the ratio of the distance actually traversed by drops of oil in passing across the plate to the direct radial distance across the plate is different in different sectors.

1,941,947

CYLINDER HEAD ASSEMBLY FOR INTERNAL COMBUSTION ENGINES

Earle S. MacPherson, Detroit, Mich., assignor, by direct and mesne assignments, of one-half to Hupp Motor Car Corporation, Detroit, Mich., a corporation of Virginia, and one-half to Societe pour l'Exploitation des Brevets Gadoux, Paris, France

Application November 26, 1928
Serial No. 321,979
3 Claims. (Cl. 123—173)



1. The combination with a cylinder block, of a cylinder head therefor formed of aluminum or similar material and composed of a plurality of longitudinally spaced sections having chambers therein for a cooling medium, and means for stiffening and clamping the sections to the block including a hollow header extending substantially the full length of said sections thereof and establishing communication between the chambers aforesaid.

1,941,948

DEVICE FOR USE IN WAVING OR CURLING THE HAIR

Frederic Maeder, Adelaide, South Australia, Australia

Application July 20, 1933, Serial No. 681,340, and in Australia May 21, 1932
5 Claims. (Cl. 132—33)



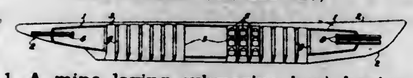
1. In apparatus for use in waving or curling hair, the combination with a curling rod adapted to receive a strand of hair, of a finger pivoted on said rod and movable to clamp the hair on the rod, and a tongs having a rod supporting member and a member for operating said finger.

1,941,949

SUBMARINE MINE-LAYER

Federico Martinoli, Trieste, and Ermanno Gerolimich, Monfalcone, Italy

Application March 31, 1932, Serial No. 602,282, and in Italy October 23, 1931
2 Claims. (Cl. 114—17)



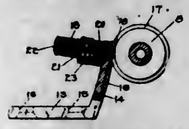
1. A mine laying submarine boat having its transverse sectional contour in the form of two similar rounded arcs symmetrically disposed on either side of a vertical central plane of the boat, these arcs gradually merging fore and aft into one cross-sectional arc near the boat ends and vertical mine wells fitted in a vertical plane extending fore and aft from the center of the boat, said mine wells being located along the central portion of the boat and framed together where the two arcs intersect so as to form strength components of the boat hull whereby the centrally arranged mine well structure combined with the two cross-sectional circular arc shaped hull portions act together for withstanding the pressure stresses which exist in the fore and aft central part of the hull when the boat is submerged.

1,941,950

BOBBIN GUIDE

John Charles Meehan, Pell City, Ala., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application July 5, 1933. Serial No. 679,067
3 Claims. (Cl. 139—251)



1. In combination with the hopper stand and rotary hopper of a bobbin changing loom, a bobbin guide secured to the hopper stand and having an approximately vertical face for positioning and guiding the butt of a bobbin during transfer, a plunger extending rearwardly through said bobbin guide for engaging the bobbin and holding the latter from turning, a housing secured to the front side of said bobbin guide, and a spring positioned within said housing and engaging said plunger for yieldingly urging the latter rearwardly.

1,941,951

SEPARATING ACETIC ACID FROM ACETIC ACID ANHYDRIDE

Richard Müller, Hans Hatzig, and Erich Rabald, Mannheim, Germany, assignors to C. F. Boehringer & Soehne G. m. b. H., Mannheim-Waldorf, Germany

No Drawing. Application January 16, 1931, Serial No. 509,267, and in Germany January 18, 1930
10 Claims. (Cl. 260—123)

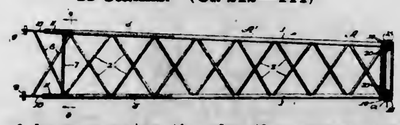
1. In the separation of the constituents of a mixture containing acetic acid and acetic acid anhydride the step of cooling said mixture to a temperature ranging between 20° C. below zero and 74° C. below zero.

1,941,952

BOOM CONSTRUCTION

Edward Belmer Nickles, Manitowoc, Wis., assignor to Manitowoc Shipbuilding Corporation, Manitowoc, Wis., a corporation of Wisconsin

Application December 26, 1931
Serial No. 583,338
18 Claims. (Cl. 212—144)



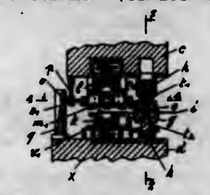
1. A boom construction for the purpose specified, comprising tubular longitudinal members, lacing members and transverse tie or strut members, the ends of all of which are permanently secured to and rigidly connect the longitudinal boom members to which they are secured, respectively, said tie or strut members being positioned in planes substantially square with the axis of the boom and arranged to reinforce and strengthen the boom to resist buckling stresses.

1,941,953

PROCESS AND MACHINE FOR MANUFACTURING TUBES

Ernst Pump, Hamburg, Germany

Application October 22, 1929, Serial No. 401,598, and in Germany October 23, 1928
3 Claims. (Cl. 153—2)



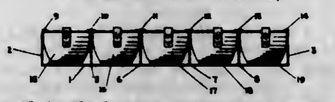
1. A process for manufacturing tubes, reels, and the like from sheet metal in band form, consisting in bending up the front edge of the sheet metal fed in the form of a band, in cutting a length of material from said band at the same time bending up the front edge of the band for the next following length, in bending the cut length into the shape of a tube and in beading the ends of said tube all operations being effected automatically during a single reciprocation of a ram.

1,941,954

EGG PACKING

Richard W. Regensburger, Chicago, Ill., assignor, by mesne assignments, to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application March 2, 1931. Serial No. 519,660
3 Claims. (Cl. 146—2)



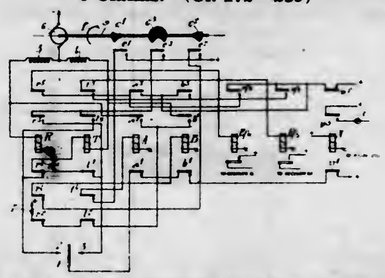
1. A relatively long, narrow cup retaining rack with cups of equal size therein for use in the inspecting of eggs, said rack comprising a horizontally extending bottom member, a vertically and longitudinally extending back member vertically and transversely extending ends and equi-distantly spaced vertically and transversely disposed partitions that divide the rack into a plurality of compartments of equal size for the reception of said cups to arrange them in a single longitudinally extending row, which compartments are substantially square in horizontal cross section, the ends of the rack having at their upper edges cup retaining flanges, and the partitions having at their upper edges cup retaining flanges, the top of the compartments between the respective flanges and the front of the compartments being open, the vertically and longitudinally extending back member being of such height that it does not extend upwardly beyond the rear edge of the cup, the rack construction being such that when the front of the rack is moved in an upward and rearward direction there can be accomplished a simultaneous dumping along unobstructed paths of the contents of all the cups.

1,941,955

REMOTE TRANSMISSION AND CONTROL DEVICE

Léon Adolphe Bernard Rondot, Jeanne-Rose, Montchanin, France

Application November 21, 1932, Serial No. 643,776, and in France November 23, 1931
6 Claims. (Cl. 172—239)



1. In a remote control device, a transmitter comprising a two-pole contactor, a first rotary switch arranged for successively closing two circuits during its rotation, means for causing the said first switch to rotate in one direction or the other when the contactor comes in engagement with one or the other of these poles, means for opening one or the other of the two circuits controlled by the said first switch according to the direction of rotation of the latter, means for emitting impulses controlled by the said first rotary switch, a receiver comprising means for receiving the emissions of the emitting station, a second rotary switch actuated, from the said receiving means, in one direction or the other according to the nature of the emissions received and arranged for closing two circuits during its rotation, means for opening one or the other of the two circuits controlled by the said second rotary switch according to the direction of rotation of the latter, means for emitting impulses controlled by the said second rotary switch, adapted to lock the said emitting station during the entire rotation of the said second rotary switch, and means controlled by the said second rotary switch for controlling any desired apparatus placed at the receiving station.

1,941,956

SYSTEM OF ELECTRODES FOR ELECTRIC GLOW DISCHARGE TUBES

Georg Seibt, Berlin-Schoneberg, Germany

Application March 12, 1931, Serial No. 522,123, and in Germany May 21, 1930
5 Claims. (Cl. 250—27.5)

1. A system of electrodes for glow discharge amplifying tubes comprising two discharge electrodes consisting of a cathode and an anode, the

discharge between which serves as a source of electrons, a second anode to which an amplification current passes from the said source of electrons and a controlling electrode which modulates the said amplification current. said first



anode being constructed and arranged as a solid shield between said cathode and said controlling electrode, the individual parts of said cathode being constructed as hollow cathodes in the form of cylinders having longitudinal openings.

1,941,957

KNIFE-CARRIER FOR PAPER CUTTING MACHINES.

Karl Stegmann, Bautzen, Germany, assignor to Johne-Werk Grafische Maschinen-Aktiengesellschaft, Bautzen, Germany

Application July 12, 1930, Serial No. 467,435, and in Germany July 16, 1929

2 Claims. (Cl. 164—58)



1. In a device of the class described a blade support having a double face, said blade support being laterally bevelled, a blade detachably and interchangeably secured to the straight face of said support, a resiliently acting metal plate secured to said inclined face of said support, said plate resiliently cooperating with said blade adjacent the edge thereof.

1,941,958

AGGLUTINANT

Willy Steikens, Cologne, and Richard Müller, Mannheim, Germany, assignors to C. F. Boehringer & Soehne G. m. b. H., Mannheim-Waldhof, Germany

No Drawing. Application August 9, 1930, Serial No. 474,301, and in Germany August 12, 1929

13 Claims. (Cl. 87—17)

1. As a new product, a solid agglutinant composed of two components intimately mixed with one another, both components being cellulose derivatives, each component, when acted upon by a softening medium, possessing the characteristics of an agglutinant with regard to the other component as well as to the material to be cemented, but differing from the other component in respect to the rate of softening.

2. As a new product, a solid agglutinant being a mixture of acetyl cellulose, collodion wool and ethyl acetanilid.

1,941,959

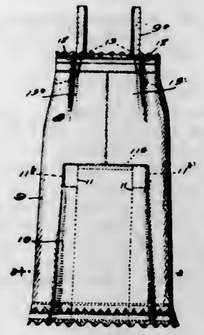
SLIP AND METHOD OF MAKING SAME

Joanna-May Sumner, Dayton, Ohio

Application May 9, 1931. Serial No. 536,257

1 Claim. (Cl. 2—73)

In a slip, means providing folds directly over the legs of the wearer and well inwardly of the sides of the garment at the front thereof whereby to leave the hip line smooth; separate arm-pit and seat shields secured to the inner surface of the garment; said shields having marginal lace attachment strips secured to the garment and having one edge free, bust size adjustment means



at the exterior top front of the garment on either side of the front center line thereof and inwardly of the side edges to eliminate folds thereat to produce a smooth bust line, and said last means being adapted to center said shields and first named folds.

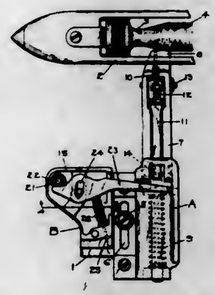
1,941,960

ELECTRIC FEELER FOR LOOMS

Harry W. Thatcher, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application June 21, 1933. Serial No. 676,934

6 Claims. (Cl. 139—273)



1. In an electric filling feeler for shuttle looms, a feeler stand, filling detecting means including a member which moves in a given path when the filling supply is substantially exhausted, a lever actuated by said member when the latter moves in said path, an electric circuit including a part engaged by said lever upon movement of the latter, a fulcrum for said lever, and means for yieldingly holding the latter in pivotal engagement with its said fulcrum, said means yielding to permit the lever to pivot about said part after engagement therewith.

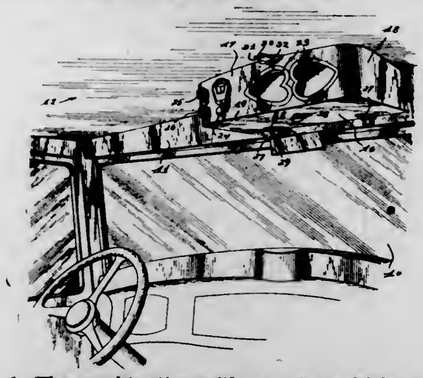
1,941,961

AUTOMOBILE RADIO SET

Carl M. Tichenor, Muskegon, and Byron C. Booth, Muskegon Heights, Mich.; said Booth assignor to said Tichenor

Application February 23, 1933. Serial No. 658,178

21 Claims. (Cl. 250—14)



1. The combination with a motor vehicle, of a radio receiving set mounted in said vehicle between the upper edge of the windshield and the adjacent roof structure thereof.

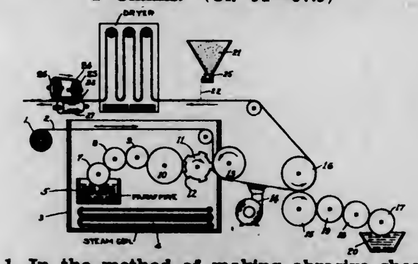
1,941,962

MANUFACTURE OF OPEN SPACE COATED ABRASIVE PAPER BY THE USE OF PARAFFIN AND OTHER HYDROPHOBIC MATERIALS

Frank J. Tone, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Pennsylvania

Application October 3, 1931. Serial No. 566,644

4 Claims. (Cl. 91—67.9)



1. In the method of making abrasive sheets, the steps comprising the coating of certain areas of the fabric with a hydrophobic material, applying an adhesive coating and abrasive grains to both coated and uncoated areas of the fabric, and thereafter removing the abrasive grains and the adhesive coating from the first hydrophobic coated areas of the fabric by means of a brushing or scraping action.

1,941,963

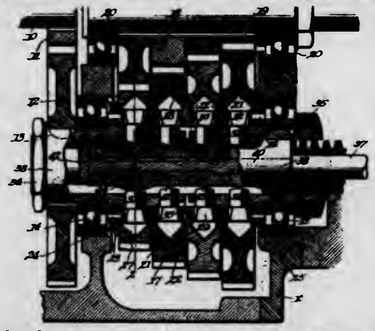
CLUTCH

Roy T. Wise, Berkeley, Calif., assignor to Wise Patent and Development Company, New York, N. Y., a corporation of Delaware

Original application November 4, 1930, Serial No. 493,649. Divided and this application August 9, 1933. Serial No. 684,444

1 Claim. (Cl. 74—59)

In combination with a friction clutch, a hollow shaft having a lubricant duct extending therethrough, anti-friction bearings supporting opposite ends of said shaft, bearing collars loosely mounted on said shaft, the end collars being arranged adjacent said anti-friction bearings and having lubricant ducts, a series of juxtaposed gears rotatably mounted upon said collars,



clutch shoes mounted upon said shaft for engagement with said gears, radially movable clutch elements mounted in said shaft to actuate said shoes, and means within the hollow shaft for operating the clutch elements.

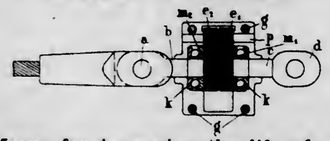
1,941,964

CARRYING ROPE

Georg Zapf, Cologne, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany

Application October 24, 1930, Serial No. 491,059, and in Germany October 28, 1929

6 Claims. (Cl. 104—112)



1. Means for increasing the life of carrying ropes, comprising in combination a member having a head for connecting it to the fixed suspension means or stretching device of the rope, a carrier on said member, a member having a head for connecting it to the rope, said second-mentioned member being rotatable on said carrier relatively to the first-mentioned member, and actuating means operatively connected to said second-mentioned member for turning the said member relatively to the first-mentioned member.

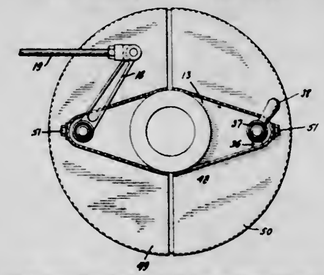
1,941,965

BRAKE

Joseph A. Albert, New York, N. Y., assignor to Aldo M. Franchi, New York, N. Y.

Application August 13, 1930. Serial No. 474,986

15 Claims. (Cl. 188—78)



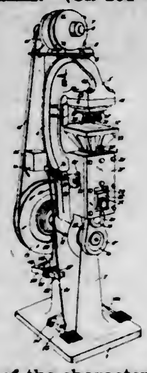
1. A composite brake-shoe comprising a body provided with a plurality of hollow bosses, a fac-

ing carrier, a friction facing fixed to said carrier, lugs on said carrier slidably seated in said bosses, a bolt extending through each lug and the respective boss, a spring within each boss bearing against the respective lug for spacing the carrier from the shoe, and a stop on each bolt for limiting the distance between the body and the carrier.

1,941,966
CUTTING, TRIMMING, AND ORNAMENTING MACHINE

Arthur W. Altvater, University City, Mo.

Application April 20, 1931. Serial No. 531,449
38 Claims. (Cl. 164—25)

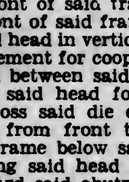


37. A machine of the character described comprising a rigid frame, an abutment element supported at the front of said frame, a head supported at the front of said frame, a die element supported by said head in vertical alinement with said abutment element for cooperation therewith to cut into work between said elements, a support carried by said head for supporting the work spread across said die element, a rotary shaft extending from front to rear and supported by said frame below said head, manual means for moving said head and thereby said die element toward said abutment element and for moving said die element from said abutment element, a plunger pivoted to and extending upwardly from the forward end of said shaft in alinement with and unattached to said manual means, a constantly operating driving mechanism, means for rotating said shaft by said driving mechanism intermittently in one direction from and to a starting position, and means controlled by said manual means preventing rotation of said shaft by said mechanism while said manual means remains unoperated.

1,941,967
METAL FLOOR CONSTRUCTION

Raymond T. Bell, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application March 28, 1931. Serial No. 525,915
6 Claims. (Cl. 189—34)

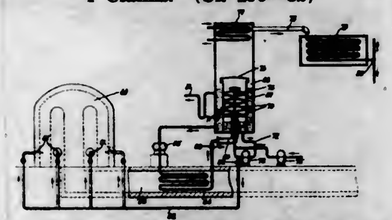


5. A sheet metal floor element, comprising an upper web presenting a tread surface, means for supporting the upper web, and a depressed portion in the upper web, the depressed portion having a keyhole slot provided therein for receiving means for retaining the floor element in position.

1,941,968
METHOD OF AND APPARATUS FOR THE TREATMENT AND USE OF LIQUID FUELS

Eastman A. Burrows, Chicago, Ill., assignor of one-half to Thomas D. Campbell, Hardin, Mont.

Application March 15, 1930. Serial No. 436,014
4 Claims. (Cl. 196—82)



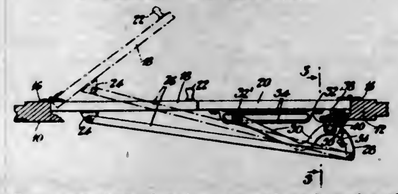
1. A cyclic process for the treatment and use of a liquid fuel which comprises continuously introducing said fuel into a heating zone to effect partial distillation thereof, removing lighter components resulting from said distillation, passing heavier components to burners in a furnace associated with a primary heat utilization system for heating material other than said fuel maintained at a temperature above 2000° F., and cyclically passing intermediate components resulting from said distillation into heat exchange with the flue gases from said furnace at a temperature below 1800° F. and back to said heating zone.

2. Apparatus for distilling oil which comprises an outer chamber, an inner chamber, dephlegmating means at the top of said outer chamber, means for feeding fresh oil into said inner chamber, a heating coil, means for withdrawing oil from said outer chamber and passing the same through said heating coil, means for conveying said heated oil to said inner chamber to evolve vapors therein, and means for directing condensate from said dephlegmating means to said outer chamber.

1,941,969
DOOR CONTROL AND OPERATING DEVICE

Ralph Calabrese, Brooklyn, N. Y.

Application September 23, 1931
Serial No. 564,605
3 Claims. (Cl. 268—62)

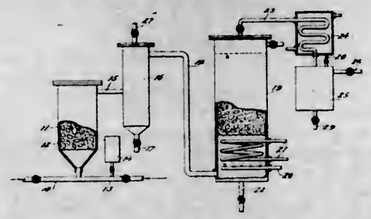


1. In a garage, having a pair of swingable doors hinged on their outer edges to a door frame, a door control and operating device comprising a bracket secured to the inner face of one door thereof, a trolley guide bracket on the face of the other door and substantially in the same horizontal plane as the bracket on said first door, a trolley movable horizontally along said guide, a horizontal fulcrum bar with an end pivoted to said trolley and having an arcuate end portion, a link rod with one end pivotally connected to said fulcrum bar and the other end connected to the bracket of the first door, a bracket secured to the upper part of the door frame at the second door and pivotally connecting the arcuate end portion of the fulcrum bar whereby to facilitate the swinging of the second door after the first door is partly swung open, and means for locking the horizontal fulcrum bar to retain the doors in open position, said fulcrum bar being adapted upon actuation by the link rod to transmit power to the trolley to slide in the trolley guide track and swing open said second door.

1,941,970
PROCESS OF NEUTRALIZATION FOR HYDROCARBON OILS

Lyle Caldwell, Los Angeles, and Raymond Thayer Howes, Long Beach, Calif., assignors, by mesne assignments, to California First National Bank of Long Beach, Long Beach, Calif., a national banking association, as trustee

Application December 8, 1930. Serial No. 500,968
8 Claims. (Cl. 196—36)



8. A process of treating oils which comprises: neutralizing a mineral acid treated pressure distillate, vaporizing the neutralized distillate in the presence of steam, passing the mixed vapors in contact with a body of contact material containing MgO to react therewith and form water soluble salts, condensing the vapors, and treating the condensate with sodium plumbite.

1,941,971
MERCURY SWITCH

George F. Callahan, Owensboro, Ky., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania

Application June 29, 1932. Serial No. 619,890
11 Claims. (Cl. 200—152)

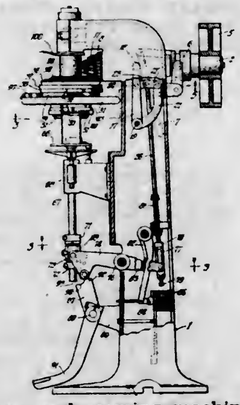


1. In a switch of the mercury to mercury contact type the combination with a sealed container, a pair of electrical conductors extending into and sealed in the wall at one end of the container, a refractory body in said container and having one end adjacent to the wall at the other end of the container, the other end of said body being hollowed out to provide a cavern, a pocket in the floor of said cavern, a mercury pool in said pocket, another body of mercury movable into and out of said cavern, the end of one of said conductors being disposed in said pool and a portion of the other conductor in contact with said movable body of mercury.

1,941,972
DOUBLE SEAMER

William Cameron, Chicago, Ill., assignor to Cameron Can Machinery Co., Chicago, Ill, a corporation of Illinois

Application December 11, 1931
Serial No. 580,262
7 Claims. (Cl. 113—24)

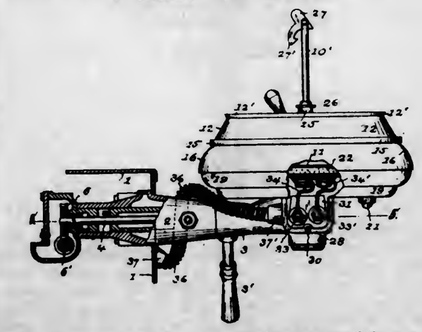


1. In a can end seaming machine, a rotary head, seaming dies carried by said head, a rotary member for moving said dies into and out of operative position, driving means including a selectively operable clutch for rotating said head and rotary member in unison or independently, a latch for holding said clutch in one position, electro-magnetic means for releasing said latch, and means carried by said members and automatically operable to energize said latter means after said head has made one revolution relatively to said rotary member.

1,941,973
CORN POPPING APPARATUS

Charles Cretors, Chicago, Ill.

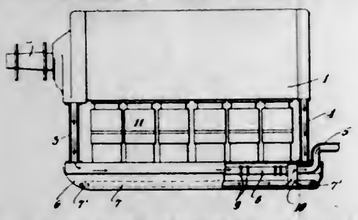
Application September 5, 1931. Serial No. 561,431
8 Claims. (Cl. 219—19)



1. A corn popping apparatus comprising a stationary support, an open top popping pan, associated cover and electrical heating unit mounted on the stationary support in an invertible manner, said heating unit comprising an annular heating element, a shallow shell formed with an annular depression for the reception of said element, said shell providing a support for the popping pan, an outer enclosing shell for the popping pan provided with a tubular bearing sleeve on its under side, a sleeve on the stationary support

affording a journal support for said bearing sleeve, and a pair of flexible conductors extending from the stationary support to the electric heating unit and having a loop formation encircling said sleeves.

1,941,974
ENGINE OILING SYSTEM
Walter F. Davis, Farmingdale, N. Y.
Application April 27, 1932. Serial No. 607,751
3 Claims. (Cl. 184—6)



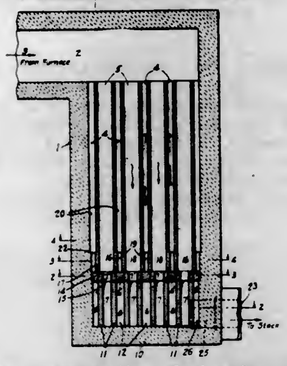
1. In an internal combustion engine having a plurality of banks of cylinders, a single crankcase, and a plurality of camshaft housings therebeneath, each of said housings, being adapted to receive the scavenging oil of said engine and in conjunction with a receptacle connecting said housings to constitute a reservoir for such oil.

1,941,975
X-RAY TUBE
Louis Frederick Ehrke, Newark, N. J., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania
Application October 11, 1930. Serial No. 488,008
1 Claim. (Cl. 250—35)



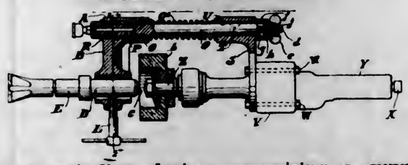
An X-ray device comprising a gas-tight dielectric enclosing envelope, an elongated anode having a target end and a cathode within said envelope, an elongated supporting means associated with said anode and having a portion thereof in frictional contact with the inner wall of the envelope and adapted to support said anode, an X-ray screen means housing the target end of said anode, a focusing cup carried by said screen and housing said cathode, a portion of said screen means being resilient and surrounding and spaced from said anode, the resilient portion of said screen means having the outer surface thereof in frictional contact with the interior surface of said envelope, a plurality of cathode leading-in conductors hermetically sealed to the envelope, one of said leading-in conductors being electrically connected to the upper portion of said screen means and to one side of said cathode and the other leading-in conductor being electrically connected to the other side of said cathode.

1,941,976
REGENERATOR CONSTRUCTION
Harold Etherington, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application November 27, 1931
Serial No. 577,556
9 Claims. (Cl. 263—19)



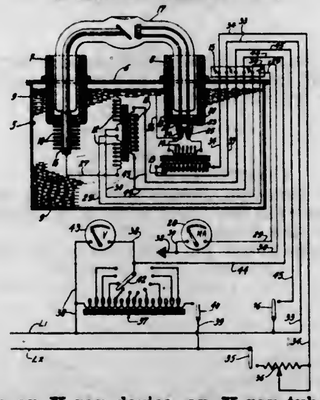
9. A heat regenerating device for providing heated combustion gases to a furnace which comprises a conduit for alternately conducting flue gas from the furnace and heated air to the furnace, a plurality of stack connections, a plurality of walls between said conduit and stack connections disposed to form discharge flues of relatively large cross-sectional areas communicating at one end with said conduit and at the other end with one of said stack connections, said walls being disposed to form alternate flues of relatively smaller cross-sectional areas in heat conductive relation with said larger flues communicating at one end with said conduit and at the other end with another stack connection, means for supplying air to said other ends of the smaller flues, means for discontinuing the flow of flue gas through said conduit, flues and stack connections, and means for establishing communication from the air supply means to said conduit through said smaller flues.

1,941,977
GRINDING DEVICE
Herbert G. Evans, Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application March 2, 1932. Serial No. 596,202
2 Claims. (Cl. 51—55)



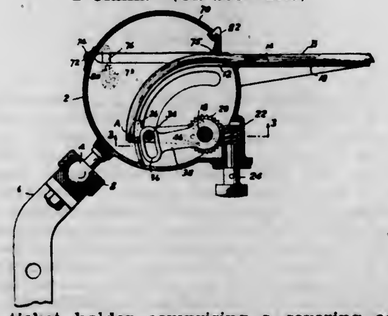
1. A grinding device, comprising a support having a work receiving aperture, means for securing the support to the work, a motor, a grinding wheel attached thereto, an arm freely rotatable with one end in the support, and a bracket slidably interlocked with the arm and being connected to the motor to maintain the grinding wheel in coaxial alignment with the aperture.

1,941,978
SHOCKPROOF X-RAY UNIT
Charles Fayer, Flushing, N. Y., assignor to Wappler Electric Company, Inc., a corporation of New York
Application October 31, 1931. Serial No. 572,259
4 Claims. (Cl. 250—34)



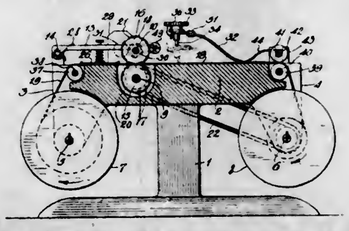
1. In an X-ray device, an X-ray tube having an envelope with portions thereof angularly disposed relative to the remaining portion of said envelope and provided with electrode terminals carried by the angular disposed portions of said envelope and in parallel relation with each other, a casing containing a volume of cooling and insulating material and supporting said X-ray tube exteriorly thereof, a source of high tension electrical energy housed within said casing and immersed in said cooling and insulating material for energizing said X-ray tube, a pair of parallel insulating bushings extending into said casing surrounded by said cooling and insulating material and having an internal diameter sufficient to enable the angular disposed portions of said envelope to extend inwardly of said bushings, high tension electrical terminals secured to said insulating bushings and extending into said cooling and insulating material, said high tension electrical terminals being connected to said source and adapted to receive the parallel disposed electrode terminals carried by the angular disposed portions of the envelope of said X-ray tube.

1,941,979
TICKET HOLDER
Carl O. Feddern, Philadelphia, Pa., assignor to Globe Ticket Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 12, 1928
Serial No. 305,601
1 Claim. (Cl. 206—40.6)



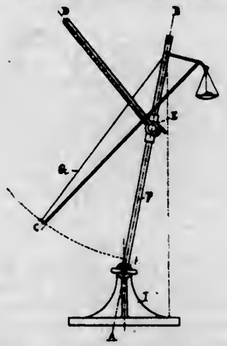
A ticket holder comprising a severing edge, means for holding a pad of tickets or the like with the free ends thereof extending outwardly beyond the severing edge, means providing rapid rough relative adjustment of the holding means and severing edge to vary the lengths of portions of the tickets extending beyond the severing edge, and means providing a fine relative adjustment of the holding means and severing edge.

1,941,980
MAKING OF SOUND SYNCHRONIZED MOTION PICTURES
Max Fleischer, Brooklyn, N. Y.
Application January 17, 1931. Serial No. 509,367
1 Claim. (Cl. 88—16.2)



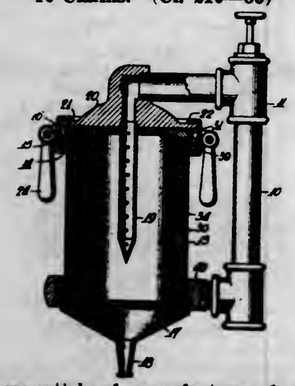
The method of making motion pictures to accompany predetermined sound, comprising the steps of applying transverse frame markings and longitudinal tempo markings intersecting said frame markings to a non-photographic tape traveling at a speed synchronous with the speed at which the said motion pictures are to be projected, the tempo markings being in accordance with the said predetermined sound, making a series of pictures appropriate to said sound employing the same frame markings and the relation of said tempo markings to said frame markings as a guide, and finally photographing said pictures in sequence on a motion picture film.

1,941,981
SCALE
Pierre Marie Fontaine, St.-Andre-lez-Lille, France
Application June 28, 1932, Serial No. 619,706, and in France July 2, 1931
4 Claims. (Cl. 265—29)
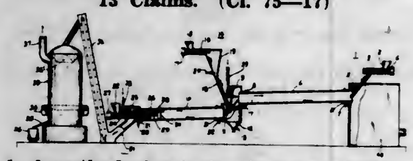


4. In a scale, in combination, a base, a supporting column pivoted to said base, a graduated indicator adapted to be moved along said column and to be angularly adjusted relative thereto, a weighing beam ocsillatingly mounted on said column to be displaced relative to the graduations on said indicator, and two parallel threads stretched on said weighing beam one behind the other permitting the reading of said indicator.

1,941,982
FILTERING DEVICE
Louis M. Gill, Brooklyn, N. Y., assignor to Darco Sales Corporation, New York, N. Y., a corporation of Delaware
Application December 2, 1930. Serial No. 499,436
10 Claims. (Cl. 210—86)



6. A new article of manufacture adapted to be used in a filtering device, and including a hollow shell of molded porous pulp, which is comparatively stiff when dry and readily rupturable when wet, said shell being provided with an integral outwardly extending annular compressible flange at one end thereof adapted for use as a gasket, and an annular inwardly extending flange at the same end, and defining an opening through which a liquid supply pipe may be projected.

1,941,983
METALLURGY OF IRON
Austin Gudmundsen, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 21, 1932. Serial No. 600,089
13 Claims. (Cl. 75—17)



1. A method of reducing iron ore which comprises preheating a mixture of ore and flux to temperatures below the sintering temperature of the ore, adding soft coal to the heated mixture, heating the mixture to elevate its temperature nearly to the sintering temperature of the ore, adding unheated ore in an amount substantially equal to the amount of ore in the initial mixture, mixing the heated and unheated ores, and smelting the resultant mixture.

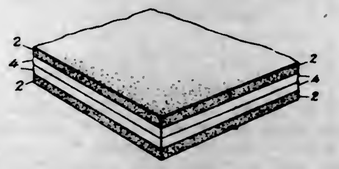
1,941,984
CUT-OUT FOR SERIES LAMPS
Daniel S. Gustin and Ewald Dietz, Bloomfield, N. J., assignors to Westinghouse Lamp Company, a corporation of Pennsylvania
Original application June 18, 1929, Serial No. 371,821. Divided and this application September 10, 1931. Serial No. 562,038
8 Claims. (Cl. 176—24)

1. An incandescent electric lamp comprising a base, a pellet consisting of a compact mass of metallic powder and sodium silicate disposed in said base, a metallic support for said pellet, a lead wire of said lamp in contact with one portion of said pellet, an electrical conductor in contact with another portion of said pellet and in



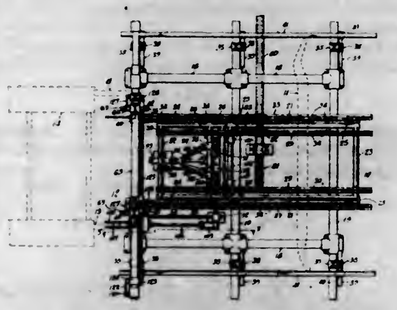
contact with said base, said support serving to carry said pellet and for holding said pellet removably within said base.

1,941,985
COMPOSITE SHEETING
Harry E. Holcomb, Bound Brook, N. J., assignor to Fiberfraks Inc., New York, N. Y., a corporation of New York
Application June 18, 1929. Serial No. 371,962
5 Claims. (Cl. 154—45.9)



1. A hard sheet comprising an outer layer of asbestos-cement composition containing approximately 20% of mineral fiber and approximately 80% of cement; and an inner layer of a composition consisting of approximately equal parts of organic fiber and cement.

1,941,986
CONVEYER TRUCK LOADER
Axel Janson, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application June 1, 1931. Serial No. 541,329
25 Claims. (Cl. 214—1)



1. A machine for loading a conveyer truck having article retaining jaws thereon comprising a retractable support disposed to sustain an article in a position above said truck, means for delivering the article to said retractable support, means for lowering said support, and means for forcing the article between said retaining jaws to securely position the article on said truck.

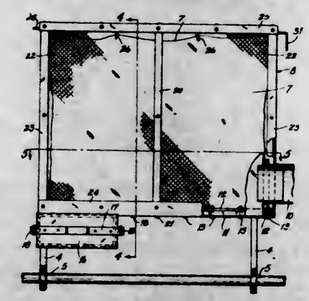
12. In a loading machine the combination of a retractable support and a pusher mechanism cooperating therewith for effecting the seating of an article when delivered by the retractable support to a conveyer truck.

1,941,987
ACOUSTIC DEVICE
Henry Koch, Jamaica, N. Y., assignor to Dictograph Products Co., Inc., New York, N. Y., a corporation of Delaware
Application October 3, 1931. Serial No. 566,677
4 Claims. (Cl. 179—127)



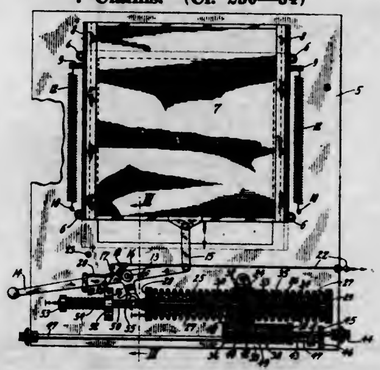
1. A transmitter comprising a base member, a diaphragm supporting flange on said base member, a casing flange surrounding and spaced from said diaphragm supporting flange, a plurality of bridging members disposed between said flanges defining sound wave entry apertures in said base member between said flanges, a diaphragm mounted on said diaphragm supporting flange, a plurality of anchoring members mounted on said bridging members, a plurality of clips adapted to cooperate with said anchoring members to secure said diaphragm in position on said diaphragm supporting flange, and an electrically conductive path to said diaphragm formed by structure comprising one of said clips which is formed from electrically conductive metal, one of said anchoring members which cooperates with said metallic clip and is formed from electrically conductive metal, and an electrical conductor terminal mounted on said base member in contact with said metallic anchoring member and adapted to be electrically connected to an electrical conductor having ingress through said casing flange.

1,941,988
DUST COLLECTOR
Harry W. Krag, St. Louis, Mo., assignor to American Shoe Machinery and Tool Company, St. Louis, Mo., a corporation of Missouri
Application July 11, 1932. Serial No. 621,817
12 Claims. (Cl. 183—58)



12. A dust collector comprising a support for a dust bag, a rocker shaft mounted on said support, radial arms projecting from opposite sides of said shaft and attached to the opposite sides of said dust bag, and means for oscillating said shaft whereby the opposite sides of said bag are alternately tightened and slackened.

1,941,989
SPEED CONTROL DEVICE FOR MOVABLE GRIDS
Carl J. Larsen, East Orange, N. J., assignor to Wappler Electric Company, Inc., a corporation of New York
Application October 16, 1931. Serial No. 569,224
7 Claims. (Cl. 250—34)



1. In an X-ray device, the combination with a movable grid and means to cause movement thereof, of mechanism for regulating the speed of movement of said grid comprising a plurality of yieldable chambers operably connected to said grid, a fluid contained in said chambers, means to provide a passage for the flow of fluid from one of said yieldable chambers into the other during movement of said grid, in one direction of its travel, and means to provide a passage for the flow of fluid from one of said yieldable chambers into the other during movement of said grid in its other direction of travel.

1,941,990
LAMP COATING
Albert F. Lindstrom, Nutley, N. J., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania
No Drawing. Application November 21, 1928
Serial No. 321,041
6 Claims. (Cl. 134—1)

1. A coating composition comprising sodium silicate, a filler, hydrated chromic oxide and boric acid.

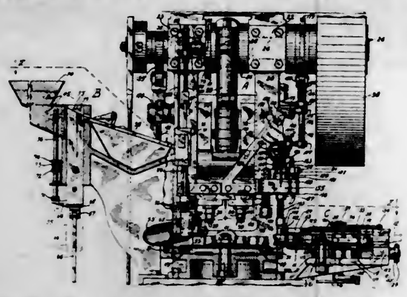
1,941,991
METHOD OF TREATING TEXTILE MATERIAL AND PRODUCT
Herbert August Lubs and Herbert Warren Walker, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 25, 1931
Serial No. 518,289
20 Claims. (Cl. 8—5)

1. Cotton goods dyed with a sulphur black produced by thionating a nitro-phenol and having thereon the sodium salt of 1-amino-4-ethoxy-phenyl-2-thio-glycollic acid in an amount between .5 and 15.%.

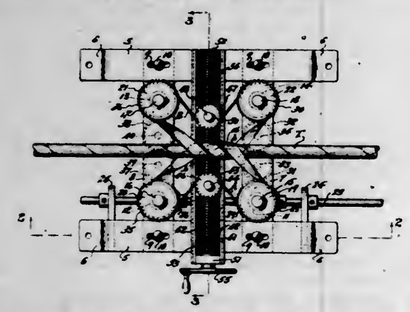
1,941,992
BASE FEED AND STAKING MACHINE
William Makenny, Mountain View, N. J., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania
Application July 12, 1930. Serial No. 467,532
16 Claims. (Cl. 218—0.5)

1. A machine of the class described comprising means for holding a plurality of contact pins in

given spaced relation, means for feeding a base having apertures in a wall thereof, means engageable with the interior of said base for adjusting the base, and means for moving the adjusted base to position said contact pins in the said apertures.



1,941,993
PROPELLING MECHANISM FOR TUBE FORMING MACHINES
Paul H. Minton, Chatham, N. J.
Application October 27, 1932. Serial No. 639,852
16 Claims. (Cl. 93—80)



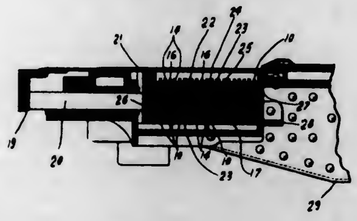
1. A mechanism for rotating and advancing tubing as formed from spirally wound strips, comprising feed belt means, means for supporting and driving said feed belt means, said feed belt means being so disposed relative to said supporting and driving means as to provide opposed and oppositely moving courses respectively at opposite sides of said tubing and joined by spiral turns engaged around said tubing in staggered and mutually counterbalancing relation.

1,941,994
GEAR PINION
Peter J. Muschong, St. Louis, Mo., assignor to Metallic Sash-Operator Company, a corporation of Missouri
Application August 1, 1931, Serial No. 554,427
Renewed November 1, 1933
3 Claims. (Cl. 74—28)



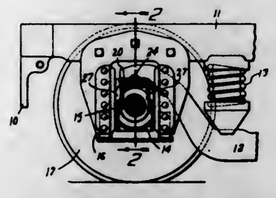
1. A gear composed of drawn and formed sheet metal and comprising duplicate sections, each section including a radial annular web portion having peripheral teeth punched in its periphery cut laterally to the plane of the sheet, and an integral laterally extending hub portion, said web portions being joined face to face with the teeth in abutting position and in lateral alinement.

1,941,995
RUBBER SPRING
William H. Mussey, Chicago, Ill., assignor, by mesne assignments, to Pullman Car & Manufacturing Corporation, a corporation of Delaware
Application August 13, 1930. Serial No. 474,965
4 Claims. (Cl. 213—40)



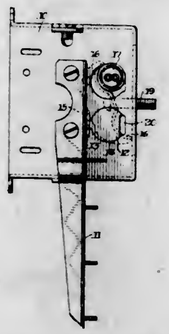
4. In a draft and buffing mechanism including a pair of followers, a pair of rubber spring units of relatively different capacities and comprising each a metal supporting plate having one or more rubber elements secured to respectively opposite faces thereof, relatively shallow metal stop elements carried by said plates and concentrically arranged with respect to the rubber elements, the stop elements on one of said units having areas superimposed upon and in projected thrust relation with the rubber areas of the other unit, and a plate separating said units.

1,941,996
EQUALIZER SEAT CUSHION
William H. Mussey, Chicago, Ill., assignor, by mesne assignments, to Pullman Car & Manufacturing Corporation, a corporation of Delaware
Application October 19, 1931. Serial No. 569,745
4 Claims. (Cl. 105—224)



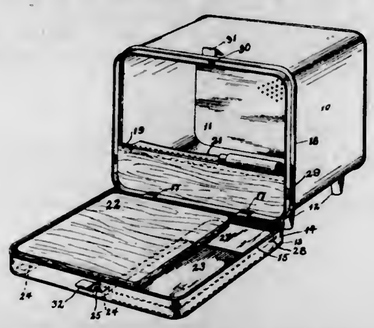
1. In a railway car truck the combination comprising journal boxes, a truck frame supported thereon, and cushioning elements inserted between said journal boxes and truck frame, said cushioning elements each comprising a flat rubber pad having a transversely extending raised ridge intermediate the length of its upper side, and a metal plate embedded in the pad conforming to said ridge, said plate having cushion stabilizing and stress distributing extensions upon opposite sides of said ridge conforming portions.

1,941,997
PRY-OUT FOR SWITCH BOXES AND THE LIKE
Charles Newman, New York, N. Y., and Walter O. Roach, Chicago, Ill., assignors, by mesne assignments, to Roach Appleton Manufacturing Company, South Bend, Ind., a corporation of Delaware
Application January 2, 1930. Serial No. 418,052
11 Claims. (Cl. 247—26)



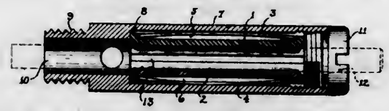
2. In electric protective means, a casing having a pry-out in a wall thereof, said pry-out being substantially flush with said wall and being provided with a slot-like opening for the reception of a prying tool whereby said pry-out may be pried loose from said wall.

1,941,998
BREAD BOX
Lester E. Padelford, Buffalo, N. Y., assignor to Republic Metalware Company, Buffalo, N. Y., a corporation of New York
Application May 11, 1931. Serial No. 536,357
5 Claims. (Cl. 45—71)



1. The combination with a receptacle having a flanged hinged cover, of means to support said receptacle upon a supporting surface with the pivotal axis of said cover spaced from said surface and so that said cover may be swung from a closed vertical position to an opened horizontal position to be supported in the latter position upon said surface, a bread board seated within said cover, co-operating means on said cover and bread board to hold said board detachably within said cover, and means on said receptacle for engagement with a portion of said co-operating means to hold the cover in closed position.

1,941,999
STOCK FEEDING COLLET
Martin H. Redmer, Chicago, Ill.
Application July 7, 1932. Serial No. 621,147
5 Claims. (Cl. 29—62)



1. A feed collet comprising a body portion in the form of a sleeve having a shoulder therein near one end, stock gripping members engaging said shoulder, resilient means acting perpendicularly to the line of movement of the stock to apply a relatively uniformly distributed pressure longitudinally along said stock gripping members, and a cap for said sleeve at the end opposite to said shoulder.

5. A feed collet comprising a hollow body portion, a plurality of segmental stock engaging members, each having a longitudinal groove therein, a bowed leaf spring for each segment, and means for retaining said segments in said body portion and said springs in said grooves to prevent slipping of said segments with respect to the stock fed thereby.

1,942,000
ART OF CURING CONCRETE
Ira S. Reynolds, Kirkwood, Mo.
No Drawing. Application July 1, 1931
Serial No. 548,252
3 Claims. (Cl. 25—154)

1. A method of curing concrete, which consists in applying to freshly laid concrete a protective film or coating comprising a volatile liquid, a water-repellent substance, and a plasticizer.

1,942,001
SHOE
Chester F. Rohn, Whitefish Bay, and Franklyn A. Rohn, Milwaukee, Wis.
Application June 19, 1933. Serial No. 676,478
8 Claims. (Cl. 36—17)



5. In a shoe, an insole having a flexible heel portion, a main cushion pad beneath said heel portion, an insert having an opening beneath said main pad, an outsole coacting with the lower face of said insert, and an auxiliary cushion pad of greater thickness than said insert disposed within said opening.

1,942,002
AUTOMATIC TEMPERATURE CONTROL DEVICE
Emilio Romanelli, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania
Application February 27, 1928. Serial No. 257,289
2 Claims. (Cl. 200—137)

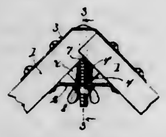
1. A thermostatic switch for an electrical circuit comprising a tubular expansible element, a

slidable member within said element, a pivoted member having a short arm and a long arm, a stationary contact member, a pivoted member and said stationary contact member in said circuit, means for normally holding said long arm



engaged with said contact member to close said circuit, and means for releasing said first mentioned means upon an elevation of the temperature of said expansible element and means for disengaging said long arm with said contact member.

1,942,003
KNOCK-DOWN LEG FOR FURNITURE
George H. Rundle, Palmyra, Wis.
Application May 20, 1932. Serial No. 612,461
1 Claim. (Cl. 45—48)

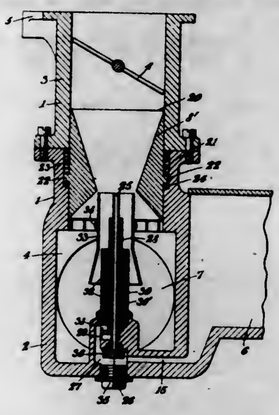


In an article of furniture, side rails meeting at an angle at their adjacent ends forming a V-shaped corner, a metallic strap secured at its ends rigidly to the inner face of the side rails and extending across said corner and forming in conjunction with the side rails a leg-receiving socket, a holding bolt supported by the side rails and extending through the central portion of the strap, a table leg having a shank on its upper end receivable in the socket and bifurcated to straddle the bolt, and an adjusting nut on said bolt for engaging the strap to force the intermediate portion thereof in frictional engagement with the shank.

1,942,004
PROCESS FOR IMPROVING ALUMINOGENETIC IRON
Wilhelm Sander, Essen-Ruhr, Germany, assignor to firm Th. Goldschmidt A.-G., Essen-Ruhr, Germany
No Drawing. Application July 24, 1931, Serial No. 553,000, and in Germany July 29, 1930
3 Claims. (Cl. 22—206)

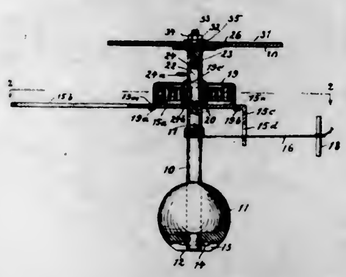
1. In the improvement of properties of the aluminogenetic iron joints produced in the aluminothermic process of welding rails and other steel parts, the process of improving the tenacity and chemical resistance of such a welded joint which comprises incorporating with the aluminogenetic iron, chromium and at least one high melting point metal selected from a group consisting of nickel and cobalt, the total of these added components not exceeding 4 per cent by weight of the iron, the content of the nickel and cobalt being from 1 to 4 times that of the chromium; and of simultaneously improving the tensile strength, resistance to impact, tenacity and density of said welded joint by also incorporating with the aluminogenetic iron, titanium in an amount up to 3 per cent by weight of the iron present and in addition at least one high melting point metal selected from a group consisting of tungsten, molybdenum and vanadium, the total of these components not exceeding 2 per cent by weight of the iron present.

1,942,005
CARBURETOR
Fred C. Schramm, Flushing, N. Y.
Application October 17, 1931. Serial No. 569,261
1 Claim. (Cl. 261—41)



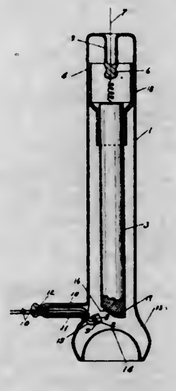
A carburetor having a longitudinally movable venturi through which unobstructed fuel and air pass, and fuel jets terminating at different positions within said venturi, the greatest difference between terminals of said jets being substantially equal to the length of movement of said venturi and a draft tube surrounding said jets and discharging into said venturi.

1,942,006
TOY
David L. Shikaly, Yonkers, N. Y.
Application March 6, 1933. Serial No. 659,706
2 Claims. (Cl. 46—14)



1. A whirling toy adapted to be alternately rotated in opposite directions comprising a balanced spindle, a stationary member serving as a handle and as a bearing for said spindle, manual means to impart rotary motion to the spindle in one direction, said manual means comprising a tension member, adapted to be wound upon said spindle in one direction, a spiral spring, fixedly attached with one end to the stationary member and wound around said spindle in an opposite direction and connecting means to engage said spiral spring operatively with or disengage it from said spindle for the purpose of winding up said tension member on said spindle, independently from said spring, and to operatively engage said spring to the spindle.

1,942,007
SOFT X-RAY TUBE
Charles M. Slack, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania
Application January 9, 1930. Serial No. 419,479
1 Claim. (Cl. 250—35)



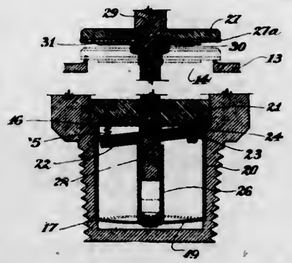
An X-ray tube comprising an envelope of cylindrical form, a cathode and an anode within said envelope, leading-in conductors for said anode and cathode, the leading-in conductor for said anode extending through one end of the envelope and the leading-in conductors for said cathode extending from the sides of the envelope at diametrically opposed points, said envelope comprising a body portion containing an element whose atomic weight is greater than 16 and a window at the end of said envelope and of substantially the same composition as said body portion, said window being homogeneously united to said body portion and having a portion thereof of not greater than 0.002 inches in thickness, said leading-in conductors emerging from the envelope at points remote from the window.

1,942,008
TYPEWRITING MACHINE
Jesse A. B. Smith, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application May 25, 1929. Serial No. 365,849
10 Claims. (Cl. 197—6)



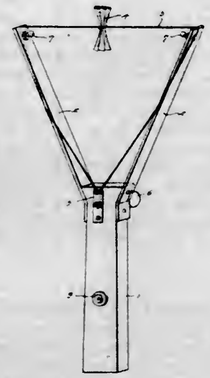
1. In a typewriting machine, the combination with a primary printing ribbon and an auxiliary printing ribbon, of a protecting rubber blind between said ribbons, said blind being sufficiently yieldable to allow the type to emboss a work-sheet.

1,942,009
VALVE
John A. Spencer, Newton, Mass., assignor to The Spencer Thermostat Company, Cambridge, Mass., a corporation of Massachusetts
Application May 31, 1930. Serial No. 457,757
13 Claims. (Cl. 137—139)
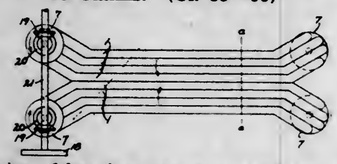


2. A valve comprising the combination within a casing, of a valve member adapted to control a flow of fluid therethrough and having a tendency to seat, the said valve having a stem, a latch member adapted to grip the stem to hold the valve member in open position, and thermostatic means adapted to be actuated by temperature changes in a fluid exteriorly of the casing, said means being adapted to operate the latch member to release said stem whereby said valve member is seated.

1,942,010
TRAIN ORDER HOOP
Roy A. Stockwell, Hartford, Mich.
Application January 23, 1932. Serial No. 588,429
3 Claims. (Cl. 240—6.4)



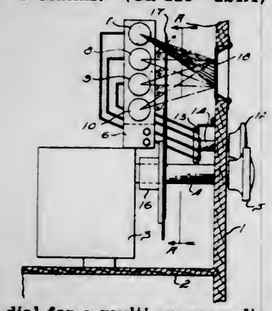
2. A train order hoop, comprising a handle having a pair of arms extending in divergent relation therefrom, an incandescent electric light mounted upon the inner side of each of said arms adjacent its free end, means for energizing said lights, and means for suspending a body between and in spaced relation with said arms whereby the body will be fully illuminated by the lights disposed upon opposite sides thereof.

1,942,011
MECHANICAL MOVEMENT
William E. Urschel, Valparaiso, Ind.
Application January 27, 1932. Serial No. 589,209
18 Claims. (Cl. 55—66)



1. Pairs of bearing means arranged in spaced relation and for opposite rotation, and members intermediate the similarly rotating members, said members being divided into two series traveling in transversely opposed paths, and the members in each series traversing a common path.

1,942,012
DIAL FOR MULTIRANGE RADIORECEIVERS
Joseph Thompson Webber, Ann Arbor, Mich., assignor to International Radio Corporation, Ann Arbor, Mich., a corporation of Michigan
Application July 20, 1932. Serial No. 623,508
6 Claims. (Cl. 116—124.4)



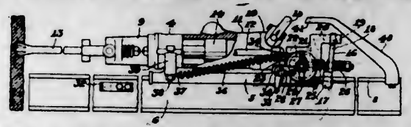
1. In a dial for a multi-range radio receiver, a rotatable tuning shaft, a dial secured to the tuning shaft and provided with a series of reference scales, a translucent screen on one side of the dial, a series of lamps mounted on the opposite side of the dial and arranged in position so that each lamp will project a portion of one reference scale onto the screen, a range changing switch adapted to be turned to a series of positions to change the wave band received by the receiver, one of the lights being arranged to be energized at each position of the range changing switch to project a portion of the proper reference scale onto the screen and the complete reference scale being readable by turning of the tuning shaft and dial.

1,942,013
INSULATING PRODUCT
Louis Weber, East Chicago, Ind.
No Drawing. Application October 4, 1929
Serial No. 397,460
4 Claims. (Cl. 154—44)

2. An asbestos fibre having a honey-comb structure.

1,942,014
DRILLING MECHANISM
Russell H. Wilhelm, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application July 20, 1933. Serial No. 681,232
3 Claims. (Cl. 255—45)

1. In a drilling mechanism, the combination of a support and a percussive motor thereon subjected to jars incident to its operation tending to move the motor along the support, recoil arresting means for the motor, latch means for locking the recoil arresting means in one limiting position, means for tripping the latch means to dis-

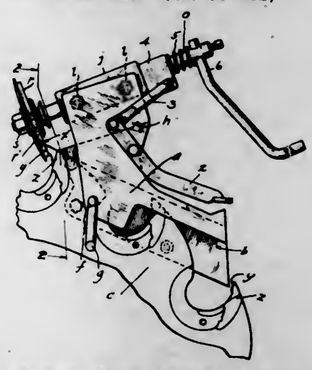


engage the recoil arresting means, and means carried by the percussive motor acting to reverse the recoil arresting means upon disengagement of the latch means from the recoil arresting means.

1,942,015
PROCESS FOR OBTAINING METALS FROM SILICEOUS ROCKS
Ernst Wydler, Leimbach, Switzerland
No Drawing. Application January 2, 1932, Serial No. 584,585, and in Switzerland October 31, 1931
7 Claims. (Cl. 75—17)

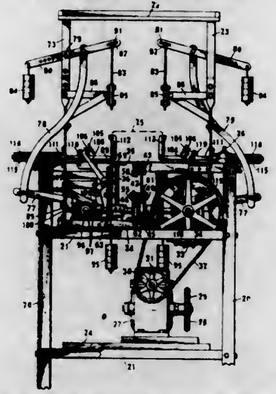
1. A process of treating a mineral of the double silicate type which contains an oxide of an alkali metal, or an alkali earth metal, and iron and also one or more elements to be recovered in elemental form, including silicon with nickel or beryllium, which comprises mixing said mineral with finely divided aluminum and sulphur containing at least as much sulphur as aluminum and not more than 30% excess of sulphur to aluminum, the sulphur being utilized in sufficient proportion to convert the alkali metal oxide and the alkali earth metal oxide present into sulphides and the aluminum being present in sufficient proportion to remove all oxygen from the other oxides present in the minerals, igniting the mixture, and dissolving the soluble sulphides away from the insoluble, oxides and elements so produced.

1,942,016
SAW FILING DEVICE
Burton Roy Andrus, Eugene, Oreg.
Application January 22, 1932. Serial No. 588,115
4 Claims. (Cl. 76—41)



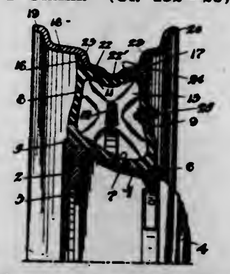
1. In a saw filing device, a body member adapted to be clamped on the saw blade, said body-member provided with an extension having a longitudinal recess, a head adjustably mounted in said recess, said head provided with a bore, an arbor rotatably located in said bore, and arranged for carrying a filing element in a plane normal to the saw and means carried by said arbor for holding said filing element in contact with the face of the saw tooth to be filed.

1,942,017
MACHINE FOR WRAPPING CAKES OR THE LIKE
Frank Baldwin, Yonkers, N. Y.
Application April 15, 1933. Serial No. 666,316
5 Claims. (Cl. 93—2)



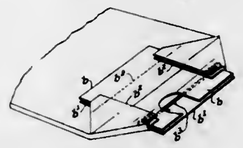
1. In a machine for wrapping cakes or the like, a supporting plate for the cake; means adapted to position the cake on its support, said means comprising finger members disposed on opposite sides of the plate and slidable rods mounting said finger members; automatic means to move said positioning means away from the supporting plate, said moving means comprising rotatable shafts, cams on the shafts, levers in engagement with said cams and movable thereby and a slot and stud connection between each lever and rod; and automatic means to return the finger members to the supporting plate including a spiral spring surrounding each rod and having one end anchored in said rod and its other end in a stationary part of the machine whereby adjustment is effected.

1,942,018
RESILIENT WHEEL
Lloyd W. Blackwood, Spokane, Wash.
Application January 30, 1933. Serial No. 654,272
1 Claim. (Cl. 152—28)



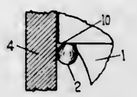
The combination in a resilient wheel with a hub ring having inner and outer retaining flanges, of an inflatable tube mounted on the hub ring between said flanges, a metal rim on the tube, spaced annular retaining flanges on the tube engaging the rim, said rim having an annular depressed portion between the retaining flanges, a series of circumferentially spaced X-braces within the tube, an annular series of arcuate braces between said X-braces, and the cross-legs of said X-braces extending diagonally, between a hub-ring flange and a tube flange, to opposite sides of the arcuate braces.

1,942,019
MULTIWALL BAG
Thomas Earl Coty, Watertown, N. Y.
Application May 24, 1933. Serial No. 672,717
7 Claims. (Cl. 229—55)



1. A bag-tube blank for use in the manufacture of multi-wall bags, comprising a section cut from a flattened tube formed from continuous independent webs of material of substantially the same width the opposite edge portions of which are folded, overlapped and pasted to form the tube, said blank comprising opposed walls each consisting of inner, outer and intermediate plies, each wall having cuts at one end to provide two pairs of opposed closure flaps, each flap of one pair having all the webs of its wall extending to the free end of the flap and portions of the intermediate plies of the two other flaps being shorter and narrower than their associated inner and outer plies, whereby the opposed faces of the extended portions of the inner and outer plies of said two other flaps may be pasted together to provide ends of less thickness and greater flexibility than the main walls of the tube and the two other flaps of full wall thickness.

1,942,020
OIL WELL PUMP
Norman Lester Dorn and William Allen Clark, Long Beach, Calif.
Application April 10, 1931. Serial No. 529,022
1 Claim. (Cl. 309—22)

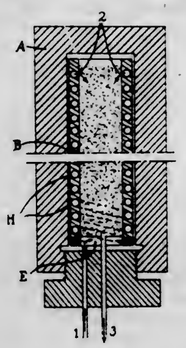


An oil well pump comprising a tubular stationary member, a reciprocating member therein, spools on the reciprocating member, lead shot interposed between said spools and said tubular member, annular shoulders at the end of the spools, said shoulders being of less width than the diameter of said lead shot.

1,942,021
APPARATUS FOR CARRYING OUT EXOTHERMIC CHEMICAL REACTIONS
Roger Du Chaffaut, Varennes sur Seine, France, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application March 7, 1929, Serial No. 345,161, and in Morocco March 19, 1928
2 Claims. (Cl. 23—289)

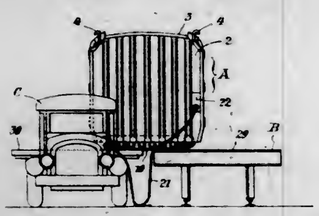
1. An apparatus for effecting catalytic gaseous reactions comprising a catalyst container provided at one end with a gas outlet, the exterior of said container being helically grooved; said container being closely and removably fitted

within a shell so as to form a helical gas passage communicating at the end of the catalyst con-



tainer first named with a gas inlet, and at the other end with the interior of the catalyst container.

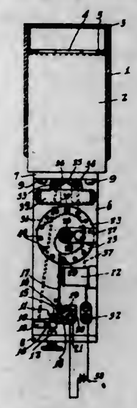
1,942,022
RAILWAY SHIPPING CONTAINER
Robert Faries, St. Davids, Pa.
Application November 21, 1932
Serial No. 643,677
8 Claims. (Cl. 180—9.1)



1. In a shipping container adapted for carriage on railway freight cars or like vehicles comprising a box frame defining a lading space substantially corresponding in width to the width of the vehicle platform; propelling mechanism disposed beneath the floor of said frame, said mechanism including a motor, a traction belt extending transversely of the vehicle platform, and reduction gearing connecting said motor and traction belt.

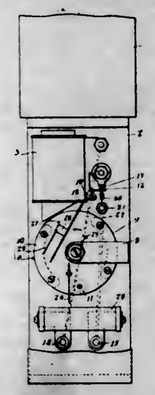
1,942,023
INTERRUPTER
Elmer E. Frey, Los Angeles, Calif., assignor to Kittle Manufacturing Co., Los Angeles, Calif., a corporation of California
Application February 6, 1933. Serial No. 655,419
4 Claims. (Cl. 172—126)

1. An electrical interrupter comprising an electromagnet, an armature pivotally mounted for movement toward and away from said magnet, a back contact cooperating with said armature to close an energizing circuit for said magnet when the armature is moved a predetermined distance away from said magnet, said armature in its normal position of rest being toward said magnet and away from its back contact, an oscillatable member positioned to impinge against said armature near one end of its path of oscillation to deflect said armature away from said magnet and against said back contact, thereby energizing said magnet to attract said armature away from the back contact and at



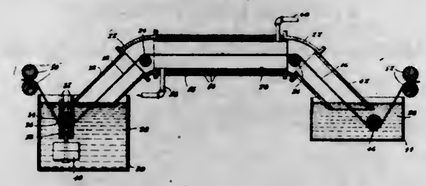
the same time impart an impulse to the oscillatable member to maintain it in oscillation.

1,942,024
ELECTRICAL INTERRUPTER
Elmer E. Frey, Los Angeles, Calif., assignor to Kittle Manufacturing Co., Los Angeles, Calif., a corporation of California
Application February 6, 1933. Serial No. 655,420
5 Claims. (Cl. 172—126)



1. An electrical interrupter comprising an oscillatable member, an electromagnet adjacent the path of oscillation of said member for urging said member in one direction during a substantial portion of the travel of said member, a pair of contacts for opening and closing the energizing circuit of said electromagnet, a movable arm for opening said contacts in response to movement in one direction and closing them in response to movement in the other direction, said arm normally seeking a position in which said contacts are closed, means movable in response to movement of said oscillatable member for shifting said movable arm to open said contacts during a predetermined portion of the movement of said oscillatable member in one direction at least, and other means for preventing return movement of said arm into position to close said contacts during an additional portion of the movement of said member when the latter is moving in one direction only.

1,942,025
BLADE STRIP AND METHOD OF MAKING THE SAME
Thomas H. Frost, Cambridge, Mass.
Application January 3, 1931. Serial No. 506,423
9 Claims. (Cl. 148—16)



1. The method of manufacturing blades having nitrided cutting edges, characterized by the steps of subjecting a longitudinal zone in a strip of nitridable ferrous alloy to the combined action of heat and ammonia, thereby nitriding the strip in said zone, and simultaneously maintaining the strip under longitudinal tension thereby substantially reducing distortion in the strip during the nitriding operation.

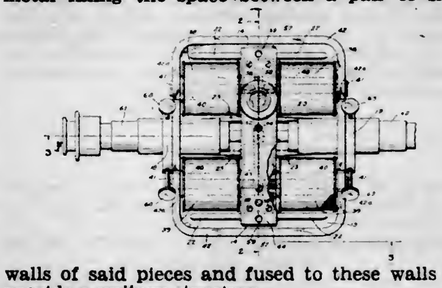
1,942,026
SPIRALLY-BOUND SHEAF
Samuel Groener, Paris, France, assignor to Frank Amato, New York, N. Y.
Application June 6, 1933. Serial No. 674,492
3 Claims. (Cl. 281—25)



1. In combination with a stack of superimposed paper sheets or the like, having adjacent one edge thereof a series of substantially evenly spaced perforations, a helical element engaging said perforations so as to flexibly unite the sheets, the terminal portions of said element being bent from their helical conformation through substantially a right angle, and being of a length so that they extend beneath the next adjacent coil, whereby said terminal portions are disposed substantially longitudinally of said helical element and within an imaginary cylindrical surface containing said helix, and whereby said terminal portions are adapted to prevent disassociation of said helical element from the perforations, without destroying the flexibility of the connection.

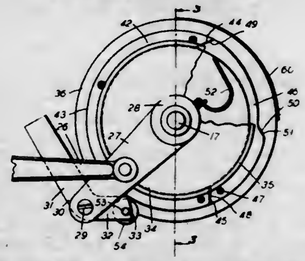
1,942,027
STRING GALVANOMETER
Frederic O. Hindle, Milford, Conn., assignor to The American Scientific Instrument Company, Milford, Conn., a corporation of Connecticut
Application February 27, 1933. Serial No. 658,782
15 Claims. (Cl. 171—95)

1. In a galvanometer, a pair of pole pieces of magnetic material wedge shaped in cross section arranged with a pair of their narrower edges in opposed spaced relation, and non-magnetic metal filling the space between a pair of side



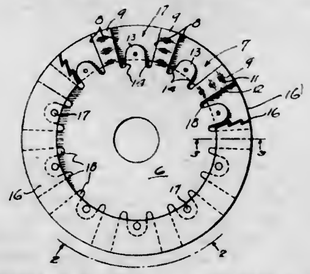
walls of said pieces and fused to these walls to provide a unitary structure.

1,942,028
INTERMITTENT DRIVING MECHANISM
Alfred E. Hine, Sedalia, Mo., assignor to Eric W. Bacharach, Kansas City, Mo.
Application October 6, 1930. Serial No. 486,700
8 Claims. (Cl. 74—53)



1. In apparatus of the character described including a driven wheel, and driving means including a pawl engageable with the driven wheel, a track member having a depressible portion, means on the pawl operable on the track member and engageable with said depressible portion for controlling the engagement of said pawl with the driven wheel, and means for adjusting said track member relatively to said pawl.

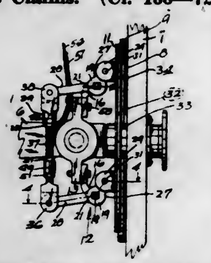
1,942,029
DISK BRAKE
George S. Lane, San Anselmo, Calif., assignor to Wallace Sheehan, San Francisco, Calif., as trustee
Application October 28, 1930. Serial No. 491,696
17 Claims. (Cl. 188—72)



1. In a device of the character described a disk, a plurality of fingers formed on the disk and being extended to the outer periphery of the disk, a lining on each side of the disk to enclose the

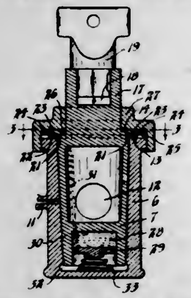
fingers therebetween; means on each finger providing for the longitudinal dilation and contraction thereof; and an extension on the disk between each pair of adjacent fingers and adjacent to the inner ends of said fingers, the said facings being secured to said extensions leaving the fingers free to dilate and contract.

1,942,030
DISK BRAKE
George S. Lane, San Anselmo, Calif., assignor to Wallace Sheehan, San Francisco, Calif., as trustee
Application October 28, 1930. Serial No. 491,698
5 Claims. (Cl. 188—72)



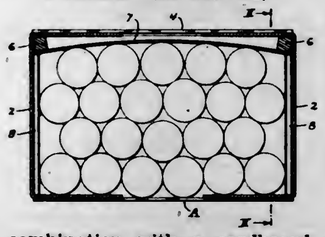
1. In combination a stationary member, a rotating member associated with the stationary member; a friction disk related to the rotary member to rotate therewith; a brake disk operatively related to the friction disk; means associated with the stationary member to support said brake disk in an eccentric position relatively to the friction disk; said supporting means being adapted to move said brake disk into frictional engagement with the first disk so that the brake disk is in substantially coaxial, parallel relation to the rotary disk when engaged therewith; and brake actuating means adjustably connected to said supporting means to apply the brake.

1,942,031
SELF LUBRICATING VALVE
John M. Le Duc, Minneapolis, Minn.
Application January 3, 1933. Serial No. 649,757
2 Claims. (Cl. 251—93)



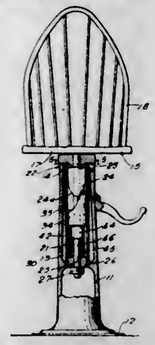
1. A valve comprising a body having inlet and outlet openings, a plug rotatably mounted within said body and having a passage extending therethrough for communicating said two openings when said plug is turned to one position, said plug closing off communication between said two openings when it is turned to a second position, a grease chamber in the bottom of said plug, ducts leading from said grease chamber and having outlets on the exterior surface of said plug, said body having grooves cut in its internal walls with which the outlets of said ducts are adapted to aline when said plug is turned to a certain position relative to said body and mechanical means urging the grease from said chamber through said ducts.

1,942,032
FRUIT SHIPPING CARTON
Willis F. Luce, San Francisco, Calif.
Application June 6, 1932. Serial No. 615,533
3 Claims. (Cl. 229—14)



1. In combination with a cardboard carton adapted to contain a shrinkable commodity, a flexible panel within the carton in contact with the commodity, and means insertable between each end of the panel and a cover on the carton to spring the panel and maintain it under tension.

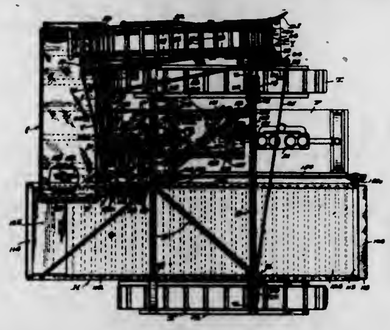
1,942,033
REVOLUBLE STOOL
Peter Madsen, Huntington Park, Calif.
Application February 24, 1930. Serial No. 430,742
4 Claims. (Cl. 155—95)



1. In a stool having a base column and a seat member revolubly mounted thereon, the combination of: a first cam attached to said seat member; a second cam engaging said first cam; means resiliently urging said second cam against said first cam; a shaft extending from said seat member; a hub rotatably carried by said shaft; a compression spring between said second cam and said hub; restraining means preventing relative movement between said hub and said base column; and means for preventing relative rotational movement between said hub and said second cam.

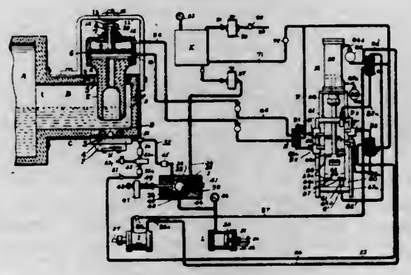
1,942,034
ROAD BUILDING MACHINE
Hans R. Miller, Fergus Falls, Minn.
Application March 3, 1930. Serial No. 432,690
5 Claims. (Cl. 37—108)

1. In a road building machine, a frame, means for supporting said frame for movement over the ground, a plow, an elongated hopper carried by said frame, an endless conveyor in the bottom of said hopper, means for driving said conveyor both forwardly and rearwardly, an end gate at one end of said hopper, means for conveying material from said plow to said hopper,



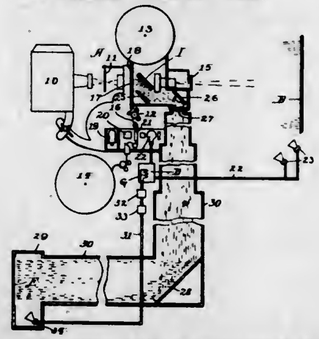
said means delivering said material above said hopper and adjacent said end gate, and means for adjusting the opening of said end gate to cause a portion of the plowed material to be dumped without collection and to regulate the amount so dumped.

1,942,035
PROCESS AND APPARATUS FOR FEEDING GLASS
William J. Miller, Swissvale, and Edward A. Lawrence, Bellevue, Pa., assignors to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application December 20, 1929
Serial No. 415,625
22 Claims. (Cl. 49—55)



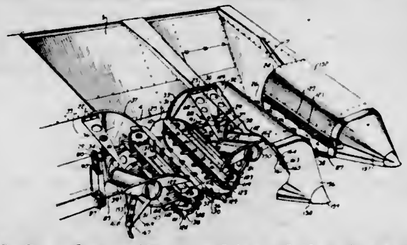
1. The process for producing a succession of mold charges of uniform character from a body of molten glass contained in a receptacle having a submerged discharge outlet, which comprises repeating in turn the steps of permitting an initial gravity flow of glass through the outlet, then applying an impulse to the glass above the outlet, then attenuating the neck of the mass of glass suspended from the outlet by applying to said neck a blast of fluid pressure, then severing said neck to detach the mass of glass suspended from the outlet, and remelting the chilled stub by applying at the lower end of the outlet a superatmospheric fluid pressure impulse whereby the stub is forced upwardly within the outlet from a zone of lower temperature into a zone of sufficiently high temperature to remelt the stub by the internal heat of the outlet.

1,942,036
METHOD OF AND APPARATUS FOR PROJECTING MOTION PICTURES ACCOMPANIED BY SOUND
Albert C. Pegg, Los Angeles, Calif.
Application July 6, 1931, Serial No. 548,907
Renewed May 31, 1933
4 Claims. (Cl. 88—16.2)



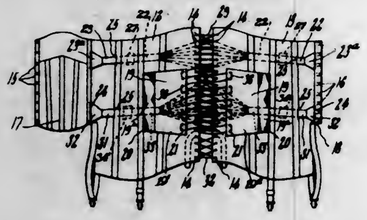
1. In combination with a main motion picture screen, a projector for casting a beam of motion picture reproducing light to reproduce a motion picture upon said screen, an electrical sound projector adapted to reproduce sound effects substantially in synchronism and in conjunction with the animation of the picture cast upon said main screen by said projector, and having an audio circuit, means for splitting the projecting beam of light, an auxiliary screen positioned remote from the main screen, means for projecting a split portion of the projecting beam on said auxiliary screen and means for duplicating said sound effects in conjunction and in synchronism with the animation of the picture cast upon the auxiliary screen having a detector placed in the field of said audio circuit to be influenced thereby and an audio amplifier for magnifying said duplicated sound effects.

1,942,037
HARVESTING MACHINE
Torvald N. Pierson, Independence, Mo., assignor to Gleaner Harvester Corporation, Independence, Mo., a corporation of Delaware
Application October 27, 1932. Serial No. 639,828
21 Claims. (Cl. 56—15)



15. In a harvesting machine of the character described, a cutting unit comprising a conveyor pan, spaced plate members supported in front of the pan, bracket members having their ends secured to the plate members and extending forwardly of the machine, arm members extending laterally from the bracket members, pairs of vertically spaced pick-up chains carried by the arm members for moving stalks toward the conveyor pan, and means supported in front of the conveyor pan for severing the stalks moved by said pick-up chains.

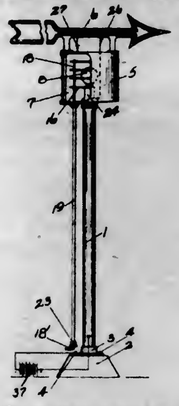
1,942,038
CORSET
Rose B. Quine, Newton, Mass.
Application May 6, 1933. Serial No. 669,689
3 Claims. (Cl. 2—26)



1. A corset consisting of two sections having eyelets 14 in their back edge portions, flexible tabs located within the corset, each tab being attached at one end to the mid length portion of a section, and having a free end near the back edge of the section to which it is attached, said tabs being formed and arranged to bear on the sacroiliac region of the wearer's body, their free ends being spaced from each other and overlapped by the back edges of the sections when the corset is spread out or flattened, and means for simultaneously tensioning the corset and the tabs, said means including two aligned pull straps oppositely movable on the back portions of the sections, buckles anchored to said sections and adjustably connecting the pull straps therewith, and groups of lacing tapes attached to and diverging from the free ends of the pull straps, each tape extending from its pull strap across the back gap between the sections through an eyelet 14 at one side of said gap, and from said eyelet in a reverse direction across said back gap, and secured to the free end of a tab to exert a pulling force thereon, said lacing tapes avoiding the eyelets on that section upon which the tab, controlled by said lacing tapes, is secured, each lacing tape being arranged to simultaneously exert force in one direction on a section and in the opposite direction on a tab on the opposite section, so that, when the pull straps are pulled in opposite directions the tapes contract said back gap and cause the rear portions of the corset sections to exert pressure on the sacroiliac region, and at the same time contract the gap between the free ends of the tabs and cause the tabs to exert an additional pressure on said region, each pressure being maintained by said anchored buckles.

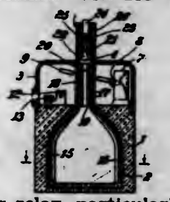
1,942,039
WIND SIGNAL
Harland Tyler, Dayton, Wash.
Application September 3, 1929. Serial No. 390,001
1 Claim. (Cl. 73—55)

The combination in a rotatable wind signal, of a rotatable post, a housing mounted on the post and a lamp in the housing, a wind vane mounted on the top of the housing, a rear light transmitting lens in the housing, a vertical series of hinged and substantially horizontally disposed reflector-plates arranged adjacent the lamp, a vertically reciprocable adjusting rod having a handle at its lower end and extending upwardly into the housing, pivotal connections between said rod and plates, a tubular guide for the rod attached at the bottom of the housing, said guide having a split resilient lower end above the rod-handle, a split resilient collar on the rod within said lower end of the guide, and a clamp nut threaded on the lower end of the guide, whereby the lower end of



the guide and the collar may be clamped on the rod to hold the latter and the reflector-plates in adjusted position.

1,942,040
DASHPOT FOR TIME LAG RELAYS
Franz Wolff, Berlin-Nikolassee, Germany
Application November 25, 1930, Serial No. 498,020, and in Germany November 25, 1929
8 Claims. (Cl. 188—94)



1. A time lag relay, particularly for electrical circuit switches and changing over purposes, having a closed elastic hollow body, air inlet and outlet valves arranged on said hollow body, and means for compressing said hollow body, said elastic hollow body having reinforcements thereon for enhancing the re-expansion force of said hollow body after having been compressed.

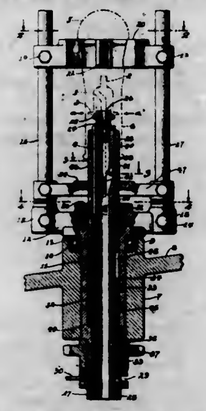
1,942,041
ALLOY
Robert T. Wood, Cleveland, Ohio, assignor, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
No Drawing. Application November 17, 1932
Serial No. 643,033
2 Claims. (Cl. 75—1)

1. An alloy containing about 0.1 to about 12.0 per cent of tin, about 0.5 to about 6.0 per cent of aluminum, and about 0.1 to about 1.0 per cent of manganese, the balance being substantially magnesium.

1,942,042
DEVICE FOR SEALING MACHINES
Raymond M. Zimber, Bloomfield, and Louis A. Hawthorne, Newark, N. J., assignors to Deforest Radio Company, Jersey City, N. J., a corporation of Delaware
Application September 20, 1929
Serial No. 393,936
24 Claims. (Cl. 49—2)

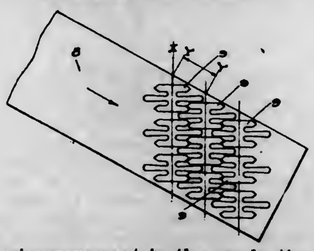
1. In a device of the character described, means for supporting and accurately centering the stem portion of a lamp or audion with respect

to the envelope portion thereof and including a reciprocating hollow rod having a plurality of releasable gripping fingers on the interior thereof, said fingers being freely mounted for sliding movement in said rod while moving bodily with said rod, said sliding movement being effected only in an oblique direction with respect to the longitudinal axis of the rod.



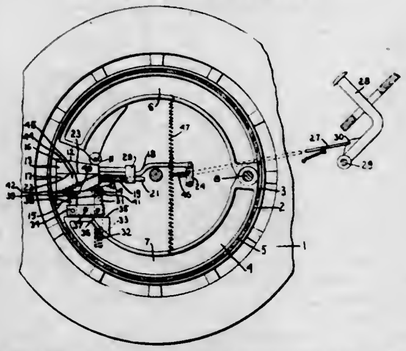
19. In combination a holder for the envelope and stem of a lamp to be sealed comprising a member in which said holder is mounted for rotary and vertical motions, means in said holder for gripping an exhaust tube, means for raising said gripping means to bring the stem into engagement with the envelope, means effective after a predetermined movement of said gripping means for increasing the grip thereof on said tube, means for lowering said gripping means for a predetermined distance without releasing said exhaust tube, and means effective after said predetermined distance for releasing said exhaust tube and allowing said gripping means to be lowered freely.

1,942,043
METHOD OF PRODUCING METALLIC FASTENER BLANKS
George A. Anderson, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application June 30, 1932. Serial No. 620,115
4 Claims. (Cl. 164—17)



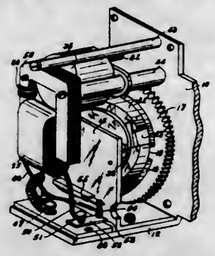
4. The improvement in the production of metallic blanks of the type described, which consists in intermittently feeding sheet metal stock for operation upon by a multiple punch to cut blanks from said stock, the direction of stock feed being oblique to the longitudinal axis of the blanks as punched, the amount of each stock feed being less than the over-all length of a blank as punched, and the disposition of the cutting portions of the punch being such that each punch stroke results in said cutting portions interlocking with blanked areas formed by the preceding punch stroke, with a portion of one blanked area lying within the tangential boundary of an adjacent blanked area.

1,942,044
BRAKE MECHANISM
Edward B. Bell, Lowell, Mass.
Application November 30, 1928
Serial No. 322,674
8 Claims. (Cl. 188—78)



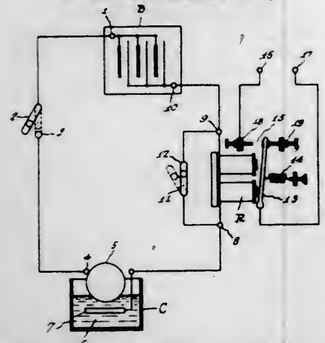
1. Braking apparatus comprising a moving element having a friction surface thereon, a stationary element, a shoe connected to the stationary element and adapted to engage the friction surface to retard the moving element, and wedging means acting upon the shoe to give it a relatively rapid motion at small mechanical advantage until it engages the friction surface means actuated by the resistance offered by such engagement to change the mechanical advantage of said weighing means as it continues to act on the shoe thereafter.

1,942,045
ANTIBANDIT ELECTRIC TIME LOCK
William T. Benham, Norwood, Ohio, assignor to The Mosler Lock Company, Inc., Covington, Ky., a corporation of Ohio
Application May 3, 1933. Serial No. 669,220
10 Claims. (Cl. 70—62)



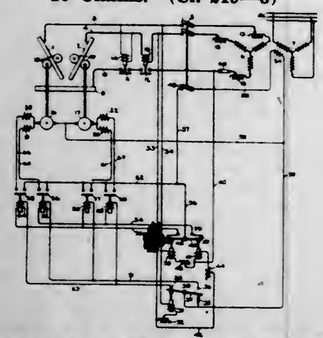
1. An anti-bandit lock comprising a slide, a movably mounted slotted check means normally dogging the slide to locked position and adapted for movement to a position wherein the slide may enter the slot to assume an open position, motor driven means to move the check means out of dogging position, an exteriorly energizable motor for actuating said motor driven means and a deenergizing switch for the motor adapted for automatic opening of the motor circuit under the influence of movement of the check means to open position.

1,942,046
PROCESS FOR TESTING METALS BY POLARIZATION
Turner D. Bottome, Indianapolis, Ind.
Application September 14, 1931
Serial No. 562,835
6 Claims. (Cl. 204—1)



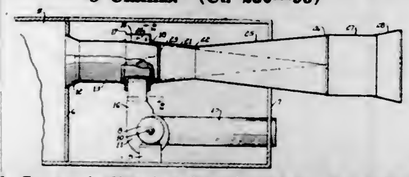
1. The process for initiating test of a metal, which consists in placing the metal to be tested in connection with a suitable electric current and in contact with an electrolyte to function as the anode in an electrolytic cell; then in subjecting said anode to super-polarization by directing said electric current of sufficient amperage through said anode during a limited time interval of approximately one second to produce a definite stabilized increase or a lesser increase in said amperage; then in directing said changed amperage through electrical apparatus which becomes dynamically energized by the definite increased amperage and not energized by the lesser increased amperage, depending upon the kind of metal of which the anode is made, the energizing or not energizing of said electrical apparatus being the initiative means and test for selecting one metal from other metals, said definite increased amperage being uniformly produced when one kind of metal is used for the anode, said lesser increased amperage being uniformly produced when a different kind of metal is used for the anode, when said metals are subjected to identical treatment during an equal limited interval of time, substantially as herein described.

1,942,047
ARC WELDING
James T. Catlett, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 21, 1932. Serial No. 618,450
10 Claims. (Cl. 219—8)



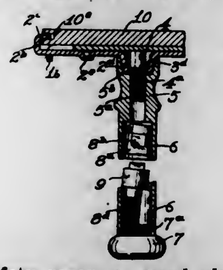
1. Apparatus for welding with an arc maintained between a plurality of electrodes and in contact with the work to be welded comprising means for supplying arc sustaining current to said electrodes, means for maintaining a predetermined voltage between said electrodes, and means for maintaining a predetermined relationship between the voltages between said electrodes and the work.

1,942,048
INDIRECT EXHAUST SYSTEM
Albert R. Clark, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application July 29, 1932. Serial No. 625,785
8 Claims. (Cl. 230—95)



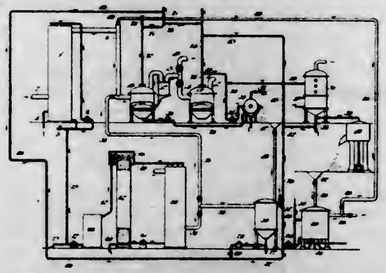
1. In an indirect exhaust system, an exhaust passageway having a uniformly tapered discharge end portion, a chamber about said tapered portion and provided with a discharge nozzle concentric with and slightly larger than the extremity of said end portion, means for supplying air under pressure to said chamber, and a discharge passageway connected with said nozzle and tapered at substantially the same angle as the exhaust passageway to form a venturi, the discharge passageway gradually increasing in size from the venturi toward the outlet end and then continuing in a cylindrical portion, the beginning of said cylindrical portion being in the region where the convergent lines of the tapered passageway would meet if produced.

1,942,049
SAFETY RAZOR AND STROPPING ATTACHMENT
Hancil Cordrey, Chula Vista, Calif.
Application February 4, 1931. Serial No. 513,245
3 Claims. (Cl. 30—12)



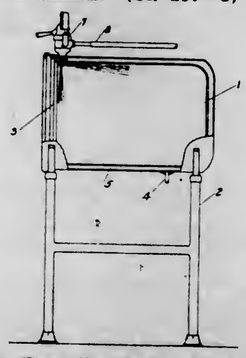
1. In a safety razor, a guard plate, a razor blade adapted to be supported on said guard plate, said razor blade having a ridged portion extending longitudinally therewith, said blade being provided with recesses within the margins of each end of said ridged portion, clamps, means to slidably support said clamps at each end of said guard plate, said clamps having a tip portion provided with a beveled surface at one end shiftable in the longitudinal axis of said blade into and out of said recess, means comprising detents provided at points intermediate the ends of said clamps for manually shifting the latter relative to said recesses, handle means for said guard plate, and means comprising complementary truncated semi-conical protrusions on the other end of said clamps engageable within a tapered counterbore in said handle and operable on movement of said handle relative to said guard plate to shift said clamps toward the center of said guard plate and thereby exert a downward pressure of said beveled surface upon the lower edge of said recess whereby to force the face of the blade opposite said ridged portion in engagement with said guard plate.

1,942,050
GAS PURIFICATION
Caleb Davies, Jr., Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application May 7, 1931. Serial No. 535,637
3 Claims. (Cl. 23—3)



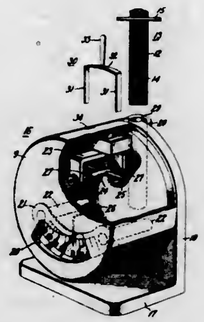
1. The process of purifying fuel gas which comprises contacting said gas with an aqueous liquid containing suspended sulphur to remove HCN from the gas, then contacting the gas with an iron salt solution which absorbs ammonia and H_2S to form ammonium salt in solution and to precipitate iron sulphide, removing iron sulphide from the solution, treating removed iron sulphide with acidic material to liberate H_2S, converting liberated H_2S into free sulphur, adding free sulphur so obtained to an aqueous liquid in which it forms a suspension, and contacting said suspension with a further quantity of fuel gas to remove HCN therefrom.

1,942,051
STERILIZER
George J. Dyckes, Erie, Pa., assignor to American Sterilizer Company, Erie, Pa., a corporation of Pennsylvania
Application May 9, 1929. Serial No. 361,656
4 Claims. (Cl. 167—3)



3. In a sterilizer, the combination of a sterilizer chamber; an inlet fitting secured in the wall of the chamber and delivering steam thereto; and a deflector plate on the inner end of the fitting dividing the incoming steam into a plurality of jets, one along a top wall of the chamber and another along an adjacent vertical wall of the chamber.

1,942,052
METHOD OF AND INSTRUMENT FOR MEASURING SURGE CURRENTS
Clifford M. Foust and Hans P. Kuehni, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application November 26, 1932
Serial No. 644,504
26 Claims. (Cl. 175—183)

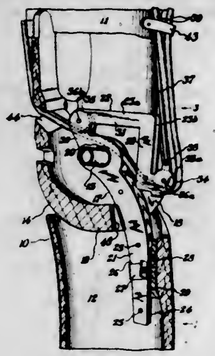


1. An instrument for measuring and indicating the maximum value of an electric current surge that flowed through a conducting body, said instrument comprising a stationary member, a movable member in a normally stationary position, one of said members consisting of a magnetic body possessing a high degree of magnetic retentivity and so positioned relatively to said conducting body that the magnetic flux in the space surrounding the latter due to the current flow therethrough effects the magnetization of this magnetic body, and the other of said members consisting of a magnetic element so positioned relatively to said conducting body and to said magnetic body that the magnetization of the latter effects a movement of said movable member from its normally stationary position to a different stationary position, and means operatively associated with said movable member for indicating the movement thereof from its normally stationary position.

1,942,053
ARTIFICIAL LEG
Carl L. Freeman, Canton, Ohio, assignor of one-half to Engineering Research Corporation, a corporation of Ohio
Application July 3, 1929. Serial No. 375,650
21 Claims. (Cl. 3—2)

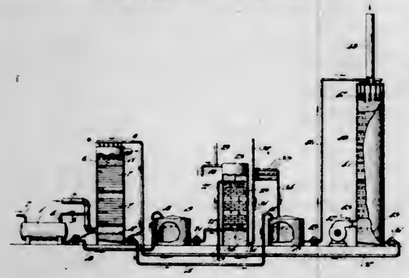
19. An artificial leg comprising a thigh section, a shin section pivotally connected therewith, a control member mounted on said shin section and having a portion projecting above the pivotal axis and having guide means rigidly mounted on said portion and spaced radially with reference to said axis, one of said means being located forwardly and above said axis when the leg is in normal straightened position, a suspender cord for said leg extending under both guide means and having its intermediate portion between said

guide means passing above said pivotal axis, said cord exerting a greater force on said for-



ward guide and a lesser force on said other guide means as said shin section passes to a bent position.

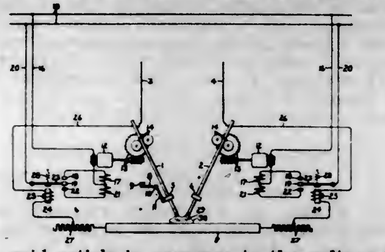
1,942,054
PROCESS OF PURIFYING A HYDROCARBON GAS AND A HYDROCARBON OIL
Clarence W. Garrison, Fort Wayne, Ind., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application March 17, 1930. Serial No. 436,496
3 Claims. (Cl. 196—32)



3. The process of purifying a hydrocarbon gas and a hydrocarbon oil from sulphur impurity which comprises substantially continuously subjecting the gas to countercurrent contact with alkali carbonate solution to absorb all of the hydrogen sulphide therefrom that it is capable of and thereby preliminarily partially fouling it for the following oil treatment stage, then subjecting the oil to contact with at least a substantial portion of said solution after its contact with said gas to effect further absorption of hydrogen sulphide in said portion, regenerating said solution and recirculating it for further purification of the gas and oil.

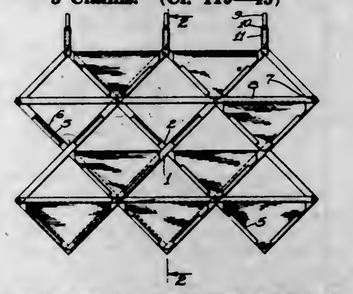
1,942,055
WELDING APPARATUS
Ralph A. Gilbert, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 21, 1932. Serial No. 618,445
6 Claims. (Cl. 219—8)

1. Apparatus comprising a plurality of electrodes, means for maintaining an arc between said electrodes, means for directing said arc onto an article to be heated and means for independently feeding each electrode toward and away



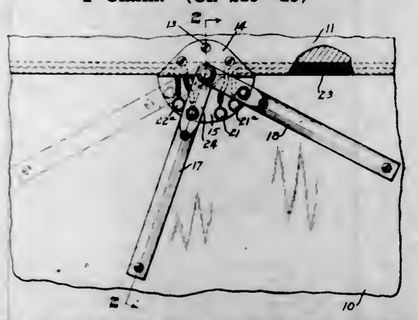
from said article in response to the voltage between said electrode and said article.

1,942,056
HEN'S NEST
John W. Gottsch, Fontana, Calif.
Application August 15, 1927. Serial No. 212,911
5 Claims. (Cl. 119—45)



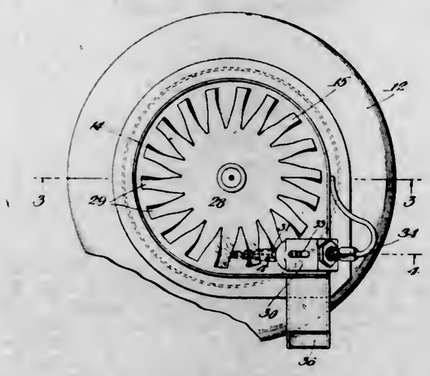
1. A hen's nest having a V-shaped bottom, a triangular plate positioned over the lower portion of the rear end of the nest, and a similar plate removably positioned over the lower portion of the front end of the nest and the upper portion of both ends being open.

1,942,057
DEVICE FOR HEATING WINDSHIELDS OR THE LIKE
Hubert M. Gray, Toledo, Ohio
Application July 30, 1931. Serial No. 554,096
1 Claim. (Cl. 219—19)



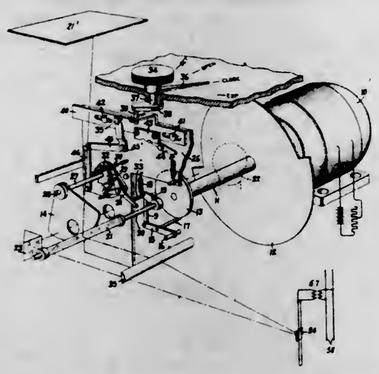
In a device for heating windshields or the like, an arm adapted to substantially contact a windshield, a bracket for said arm, a pair of contacts on said bracket engageable selectively by said arm, and an electrical heating unit on said arm adapted to be energized by one or the other contact in accordance with the position of said arm.

1,942,058
MILK COOLER AND DEODORIZER
Omar C. Harris, Chicago, Ill., assignor of one-half to Edward E. Levy, Chicago, Ill.
Application July 17, 1931. Serial No. 551,469
9 Claims. (Cl. 31—4)



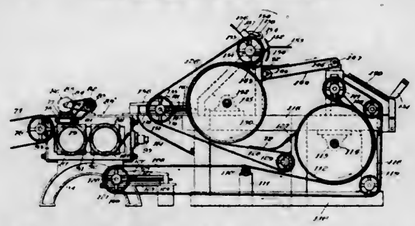
1. A device of the class described comprising a closed container, a stirring member for the liquid therein, a propeller wheel for said member, means for directing a liquid against said wheel for operating the same, and means including said first means for drawing off the air above said liquid.

1,942,059
OSCILLOGRAPHIC APPARATUS
Claude M. Hathaway, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 29, 1932. Serial No. 589,647
8 Claims. (Cl. 234—5.5)



1. In an oscillograph provided with means for producing light and a galvanometer mirror adapted to intercept light from said source, means arranged between said light source and said mirror for allowing light to reach said mirror during only predetermined intervals of time, a shutter located in said light path, and means controlled by said light controlling means for operating said shutter so as to allow light to pass only during a selected one of the intervals when said light controlling means allows light to reach said mirror.

1,942,060
METHOD OF COOLING COMPOSITION TILE
George P. Heppes, Chicago Heights, Ill., assignor to The Tile-Tex Company, Chicago Heights, Ill., a corporation of Illinois
Application July 5, 1932. Serial No. 620,842
11 Claims. (Cl. 62—170)

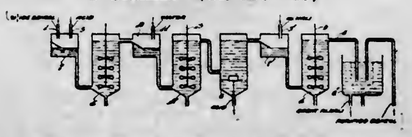


1. In a process wherein binder, filler and pigment are mixed under the influence of heat to form a coherent mass which is calendered and cut into unit slabs for the manufacture of composition tile, the improvement which comprises feeding said slabs through a cooling zone wherein opposite faces of said slabs are caused to progressively contact cooling surfaces, removing said slabs after passage through said cooling zone and again feeding them through the cooling zone in contact with the cooling surfaces whereby the temperature of the slabs is reduced to a suitable cutting temperature.

1,942,061
WOUND TREATING MATERIAL
Karl Andreas Hofmann, Berlin-Westend, Germany, assignor to Asociacion de Productores de Yodo de Chile, Valparaiso, Chile
No Drawing. Application November 29, 1930, Serial No. 499,128, and in Germany December 7, 1929
8 Claims. (Cl. 167—84)

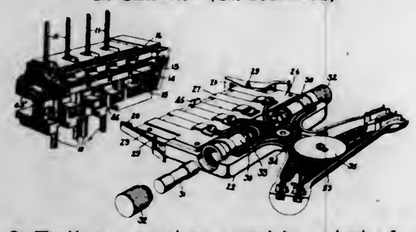
8. A wound treating material including as a constituent, silk filaments containing iodine titratable with thiosulphate forming 5–12% of such filaments.

1,942,062
PROCESS OF REFINING A BENZENOID HYDROCARBON OIL
Alfons Kemper, Essen-Bredeney, Germany, assignor to The Koppers Company of Delaware, a corporation of Delaware
Application July 2, 1930, Serial No. 465,308, and in Germany April 26, 1930
4 Claims. (Cl. 196—40)



4. The process of refining a benzenoid hydrocarbon oil which comprises continuously commingling a flow of said oil with a flow of sulphuric acid of 60° to 65° Baumé, subjecting said commingled flow of acid and oil to agitation, then commingling with said flow of oil and acid a flow of water in an amount considerably greater than that of the acid, subjecting the entire flow of oil and thereby diluted acid to further agitation, and finally separating said flow of oil and said diluted acid into streams of oil and diluted acid, respectively.

1,942,063
METER TESTING DEVICE
Isaac F. Kinnard, Lynnfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 10, 1931. Serial No. 543,415
12 Claims. (Cl. 175—183)



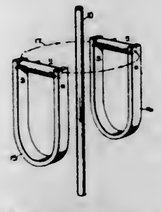
3. Testing apparatus comprising a test adapter having terminals for connection to a meter and corresponding terminals for connection to line and load circuits, said terminals being separated by stationary connecting clips and by a movable contact slide with connecting clips thereon for cooperating with the first mentioned clips, said slide having two positions one for connecting and one for disconnecting the meter terminals with the line and load terminals through said clips, a test plug dimensioned to be inserted into the adapter and upon insertion to move the contact slide from connecting to disconnecting position and having means for moving the contact slide from disconnecting to connecting position when the test plug is withdraw from the adapter, said test plug being provided with conducting clips which engage with the stationary clips in the adapter when the test plug is inserted therein.

1,942,064
ROTARY PUMP
Laurence R. Leveen, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application July 25, 1931. Serial No. 553,118
3 Claims. (Cl. 103—118)



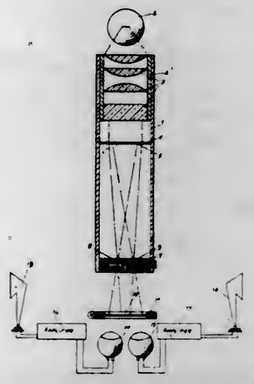
1. A rotary pump comprising an annular body, a motor having a shaft extending concentrically through the annular body, means snugly fitting about said annular body for supporting said motor, a displacement member eccentrically supported on said shaft and in the annular body and in close contact therewith, said annular body having spaced recesses in the inner wall thereof and extending axially entirely therethrough, and means between said recesses for dividing the space between said displacement member and said body into intake and compression spaces, said recesses forming intake and discharge passages communicating with said intake and said compression spaces.

1,942,065
METHOD OF AND INSTRUMENT FOR MEASURING SURGE CURRENTS
Richard G. Lorraine, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application April 26, 1933. Serial No. 668,063
12 Claims. (Cl. 175—183)



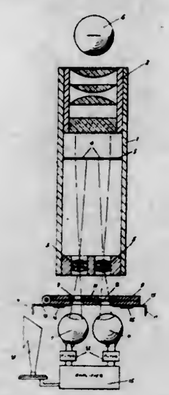
1. Surge current measuring apparatus comprising a magnetic body possessing a high degree of magnetic retentivity and adapted to be so positioned adjacent a conducting body through which the surge current flows as to be subjected to the magnetomotive force in the space surrounding the conducting body due to this surge, means for subjecting said magnetic body during the current surge period to an additional magnetomotive force which is unidirectional and independent of the surge magnetomotive force, and means for measuring the magnitude of the magnetic flux retained by said magnetic body after the current surge is over.

1,942,066
MEANS AND METHOD FOR RECORDING AND REPRODUCING PHOTOGRAPHIC SOUND RECORDS
Freeman H. Owens, New York, N. Y.
Application May 6, 1929, Serial No. 360,874
Renewed May 23, 1933
3 Claims. (Cl. 179—100.3)



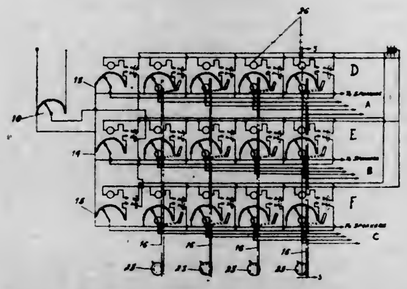
3. A recording and reproducing apparatus for photographic sound records comprising a tubular housing, a condenser lens unit in one end of said housing and a plurality of laterally spaced photographic focusing lenses in the opposite end of said housing in longitudinal alignment with said condenser lens unit, a slit member in said housing between said unit and said focusing lenses, and a light source adjacent the end of said housing having the condenser lens unit.

1,942,067
DUAL SHUTTER CONTROL SYSTEM FOR PHOTOGRAPHIC SOUND APPARATUS
Freeman H. Owens, New York, N. Y.
Application September 16, 1929, Serial No. 393,032
Renewed May 16, 1933
3 Claims. (Cl. 179—100.3)



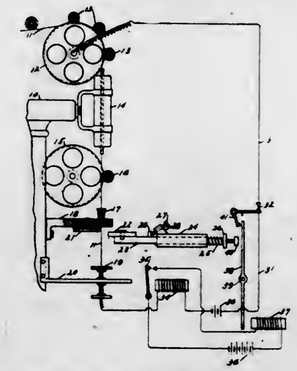
1. In photographic sound apparatus, an optical unit comprising a casing, a condenser lens unit therein, a partition therein having spaced narrow slits, focusing lenses in said casing in alignment with said slits, a light source adjacent said condenser unit, film supporting means in alignment with said slits and said focusing lenses, and independent shutters mounted for movement to selectively intersect the paths of light in alignment with said slits.

1,942,068
SOUND-CONTROLLING DEVICE FOR TALKING PICTURE APPARATUS
Freeman H. Owens, New York, N. Y.
Application November 6, 1929. Serial No. 405,231
6 Claims. (Cl. 179—1)



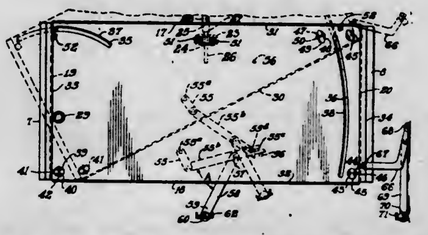
1. The combination with a plurality of sound reproducing devices disposed in parallel horizontal and vertical rows, of a rheostat in electrical connection with all of said devices for regulating the volume of them simultaneously, independent rheostats in connection with the respective horizontal rows for simultaneously regulating the volume of all of the devices in either of said rows, and means for simultaneously regulating the volume of all of the devices in either of the vertical rows.

1,942,069
APPARATUS FOR CUTTING WIRE INTO LENGTHS
Kazuo Setoguchi and Matayasu Sakurai, Tokyo, Japan, assignors to General Electric Company, a corporation of New York
Application April 23, 1931, Serial No. 532,337, and in Japan May 3, 1930
3 Claims. (Cl. 140—145)



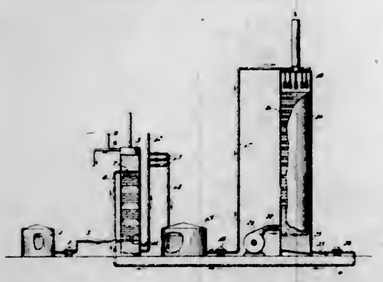
1. An apparatus for cutting wire into lengths comprising a feeding means, a cutting means disposed adjacent to the path of travel of said wire, a stop against which the wire is fed and with which it makes electrical contact, electrically controlled actuating means for said cutting means, a switch for the electrical circuit of said actuating means including an electromagnet, and another electrical circuit including said wire and the said electromagnet which is energized when said wire makes contact with said stop, thereby closing the said switch in the circuit of said actuating means to sever said wire.

1,942,070
VEHICLE SEAT
Le Roy Smelker, Dayton, Ohio, assignor to The Dayton Accessories Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application March 25, 1932. Serial No. 601,111
9 Claims. (Cl. 155—95)



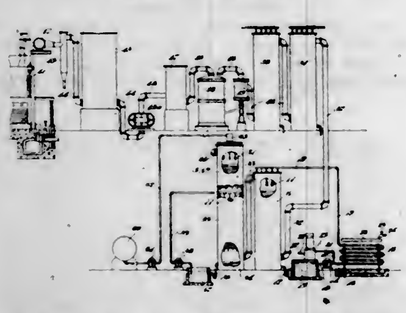
3. A vehicle seat comprising a rotative bottom, a back section hinged to said bottom for a movement relative thereto, linkage pivotally secured at one end to the lower surface of said bottom, a fixed element to which the other end of said linkage is secured for a pivotal and longitudinal movement, a rocker arm secured at its upper end to the hinged back section, and a link pivotally connected between the linkage and the lower end of the rocker arm, whereby, when the seat bottom is rotated, the hinged back section will move forwardly at a more rapid rate than the speed of rotation of the seat bottom.

1,942,071
PROCESS OF PURIFYING HYDROCARBON OIL FROM HYDROGEN SULPHIDE
Charles J. Smith, Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application March 13, 1930. Serial No. 435,503
6 Claims. (Cl. 196—32)



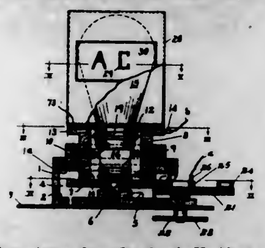
1. In the process of purifying hydrocarbon oil from hydrogen sulphide by means of an alkaline carbonate solution recirculated through a cycle comprising an absorption stage in which said oil is treated with the solution and an actification stage in which the thereby fouled solution is treated for the removal of hydrogen sulphide therefrom, as such the improvement which consists in removing in said actification stage not more than about half of the content of absorbed hydrogen sulphide of the solution.

1,942,072
GAS PURIFICATION
Frederick W. Sperr, Jr., Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application September 3, 1928. Serial No. 303,620
1 Claim. (Cl. 48—197)



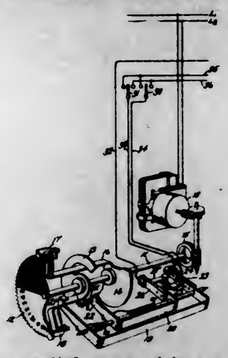
In the process of manufacturing coal gas comprising preliminarily cooling the gas as it issues from retorts therefor, purifying the gas, finally cooling the gas and thereafter scrubbing the finally cooled gas with oil to remove naphthalene, the improvement comprising treating the gas after the final cooling step but before the naphthalene removal step with a hygroscopic liquid comprising one of the group consisting of hygroscopic brines and sodium thiocyanate, to dehydrate the gas while at its final distribution temperature and so that any entrained salt solution therefrom carried along by the gas will be removed from the gas as an incident of the naphthalene scrubbing step.

1,942,073
ROTARY SOCKET FOR ELECTRIC LAMPS
Henry F. Teichmann, Washington, Pa.
Application January 24, 1933. Serial No. 653,221
15 Claims. (Cl. 40—77)



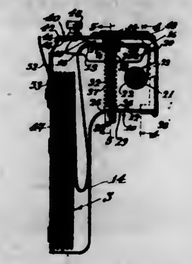
1. In a structure for the installation of an electric lamp, the combination of a base, a cam revolubly mounted in said base, said cam including a plurality of slots extending inward from its periphery, an arm supported for rotation, said arm carrying means which, during a fraction of each revolution of the arm, enters one of the slots in said cam and produces the rotation of said cam through a fraction of a revolution, and a socket member secured to revolve with said cam, said socket member being adapted to support said lamp in communication with an electric supply circuit, and an electric contact member mounted on said cam-revolving arm, said contact member being connected to said supply circuit, and, during the rotation of said arm, being adapted to make and break electrical contact with said cam.

1,942,074
TIME SWITCH
George R. Townsend, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 15, 1929. Serial No. 399,835
4 Claims. (Cl. 200—38)



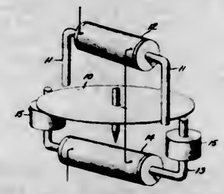
1. A time switch comprising a shaft, means for driving said shaft, an indicating disc rigidly mounted on said shaft provided with a plurality of teeth upon its circumference, a plurality of cams rotatably mounted on said shaft and provided with arms engaging the teeth on said disc, said tooth engaging arms being adjustable with respect to said teeth to permit different settings of said cams to predetermine the operation of said switch, and pivoted U-shaped members, spring urged and concentrically mounted engaging with said cams and provided with contacts, said members being actuated by said cams to open and close said contacts.

1,942,075
CHARTING DEVICE
Ralph W. Walsh, Los Angeles, Calif.
Application November 14, 1932
Serial No. 642,487
5 Claims. (Cl. 164—86)



1. A charting device comprising a casing having a sight opening formed therein for the reception of a folded charting strip having characters formed thereon, a strip winding roll for connection with one end of the charting strip removably mounted in said casing, and means for making a record on said strip.

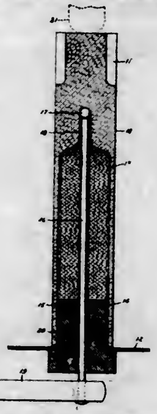
1,942,076
SELF-STARTING SYNCHRONOUS MOTOR
Henry E. Warren, Ashland, Mass., assignor to Warren Telechron Company, Ashland, Mass., a corporation of Maine
Application October 19, 1931. Serial No. 569,606
10 Claims. (Cl. 172—278)



1. An alternating current motor comprising a magnetic disk rotor and a stator comprised of two separate U-shaped magnetic members, each having a single phase field winding, said field members having pole pieces located closely adjacent the periphery of the disk and with the pole pieces of different members spaced apart a short distance in the peripheral direction of the disk, one of said members having closed conductors about its pole pieces to lag the flux thereof with respect to the flux of the other field member, said field members being of reduced cross-section such that they operate under saturated conditions.

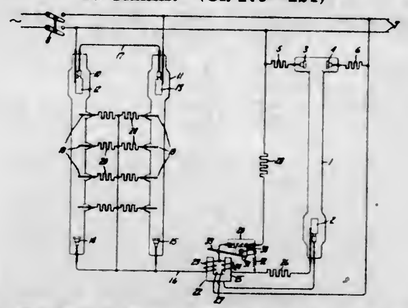
1,942,077
LUBRICATED BEARING
Henry E. Warren, Ashland, Mass., assignor to Warren Telechron Company, Ashland, Mass., a corporation of Maine
Application October 19, 1931. Serial No. 569,607
6 Claims. (Cl. 308—172)

1. A bearing comprising a cylindrical compartment filled with a lubricant and having a cylindrical opening at one end thereof, and a relatively rotatable circular rod extending through said opening, the relative dimensions of said opening and rod being such that the rod substantially closes the opening and forms a guide bearing at one point and the rod is spaced apart from the interior walls of the cylindrical opening at



other points to form a capillary overflow chamber for lubricant from said compartment.

1,942,078
ELECTRIC ILLUMINATING APPARATUS
Willem F. Westendorp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 26, 1931. Serial No. 547,155
14 Claims. (Cl. 176—124)

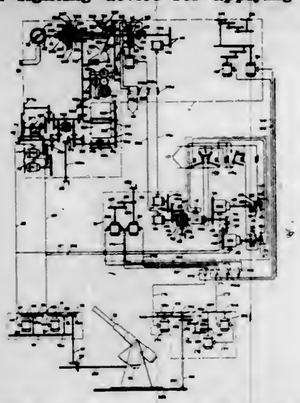


1. Electric discharge apparatus for producing illumination without visible flicker from a single phase alternating current supply, comprising a discharge lamp having cathode means and a plurality of anodes, means for connecting each anode with a different side of said supply, an inductance connected with said cathode means and rectifying means connecting the inductance with both sides of said supply.

1,942,079
SYSTEM OF AND APPARATUS FOR GUNFIRE CONTROL
Waldo W. Willard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 20, 1932. Serial No. 623,567
64 Claims. (Cl. 89—41)

49. A system of gun fire comprising a gun, a sighting device remote from said gun, means for moving said sighting device in train and elevation planes to keep it on a target, means located locally with respect to said sighting device arranged to apply corrections to the movements of said sighting device so as to generate the adjust-

ments to be applied to said gun in train and elevation planes, auxiliary correction means remote from said sighting device for applying similar



corrections to the movements of said sighting device and control means arranged to selectively render said local and remote correction means effective.

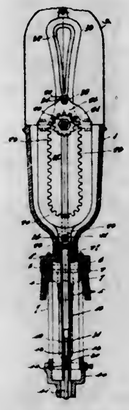
1,942,080
HEATER FOR INDIRECTLY HEATED CATHODES
Andrew H. Young, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 27, 1931. Serial No. 559,753
3 Claims. (Cl. 250—27.5)



1. An indirectly heated cathode for a gas-filled tube and adapted to be energized directly by current of commercial voltages, said cathode comprising a heater wire wound on a rod of refractory insulating material and completely embedded in a mass of aluminum oxide, a heater lead extending through the rod, said mass of aluminum oxide resting on a metal cap which is insulatingly supported within the tube, said lead passing through the interior of said cap.

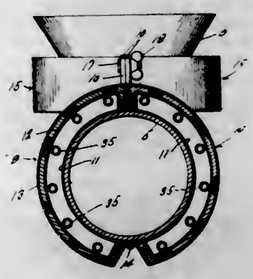
1,942,081
WIND MOTOR FOR WELLS
René Bachmann and Enrique Alliot, Buenos Aires, Argentina
Application July 9, 1930, Serial No. 466,809, and in Argentina May 2, 1930
4 Claims. (Cl. 170—78)

1. A wind motor, comprising a head forming a closed lubricant retaining casing open at its bottom, a vertical reciprocatory coupling rod operating through and closing the opening, a windwheel driven shaft journaled in the head, a pinion on said shaft, an endless double rack formed by two straight parallel portions joined at their upper and lower ends by two semicircles, the lower portion of the rack being directly joined to the upper portion of the vertical reciprocatory coupling rod, means for constraining the path of movement of the lower portion of the rack, which is directly joined to the reciprocatory coupling rod, in a straight vertical line, means for guiding the upper portion of the rack so that the rack meshes at all times with the pinion on the shaft, a sleeve se-



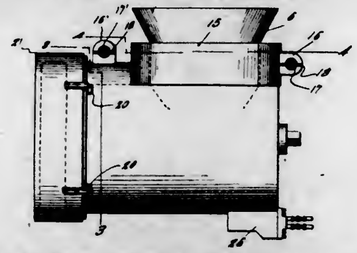
cured in the opening in the lower portion of the casing and depending from the bottom of the casing, said sleeve encasing the reciprocatory coupling rod, a portion of said coupling rod being of reduced cross section, and packing material carried by the reduced portion of the coupling rod and cooperating with the interior surface of the sleeve to provide a leak-proof joint between the sleeve and coupling rod.

1,942,082
REFRIGERATED MEAT GRINDER
Eugene Biancalana, Richmond Hill, N. Y.
Application March 25, 1932. Serial No. 601,229
1 Claim. (Cl. 257—212)



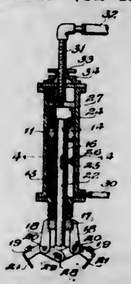
A refrigerating attachment comprising a pair of semi-cylindrical hollow sections, refrigerating elements in said sections, hinged connections between a pair of corresponding edges of the sections, so as to swingably connect the sections, and securing means between the remaining edges of the sections.

1,942,083
REFRIGERATED MEAT GRINDER
Eugene Biancalana, Brooklyn, N. Y.
Original application March 25, 1932, Serial No. 601,229. Divided and this application November 1, 1932. Serial No. 640,724
3 Claims. (Cl. 257—212)



1. A cooling attachment for meat grinders comprising a pair of hingedly connected sections, means for clamping the sections against the grinder, said sections being hollow, and refrigerating means therein.

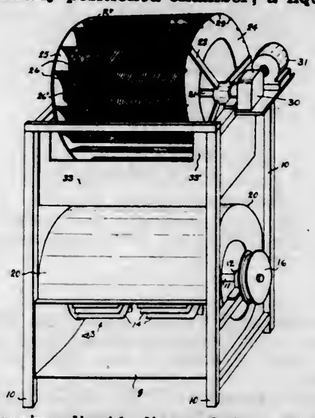
1,942,084
GLASS TRANSFER MECHANISM
Samuel B. Bowman, Zanesville, Ohio, and Thomas Stenhouse, Washington, Pa., assignors to Hazel-Atlas Glass Co., Wheeling, W. Va., a corporation of West Virginia
Application May 26, 1928. Serial No. 280,861
10 Claims. (Cl. 49—14)



9. A glass transfer mechanism including a glass forming machine in which all articles formed thereby have their tops in the same horizontal plane irrespective of the height of the articles, and having their bottoms in different horizontal planes depending upon the height of the articles, a take-out device associated with the forming machine and including a pair of grippers, means for raising and lowering the grippers, the lower limit of movement of the grippers being fixed to grip the tops of articles which are always in the same horizontal plane, and means for varying the upper limit of movement of the grippers, whereby the bottoms of articles in different horizontal planes when formed may be elevated to a single horizontal plane.

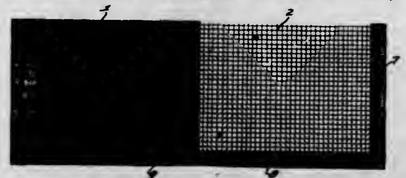
1,942,085
AIR CONDITIONING DEVICE
Charles Edward Carey, Seattle, Wash.
Application August 11, 1931. Serial No. 556,402
10 Claims. (Cl. 183—25)

1. In a device of the class described, a substantially cylindrical rotor having an open centrally positioned chamber embodying a plurality of peripherally positioned spaced apart, overlapping, foraminous walls forming passage ways therebetween inclined relative to the radii of the rotor, said passageways being in communication with said centrally positioned chamber; a liquid con-



tainer having liquid disposed to contact said walls; and means for passing gas in said passageways, whereby the gas is caused to change direction in passing through said passageways into said centrally positioned chamber.

1,942,086
FABRIC BAG FOR FRUITS AND VEGETABLES
Robert J. Cheatham, Chevy Chase, Md., assignor to Arthur M. Hyde, as Secretary of Agriculture of the United States of America
Application February 28, 1931. Serial No. 518,969
2 Claims. (Cl. 150—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

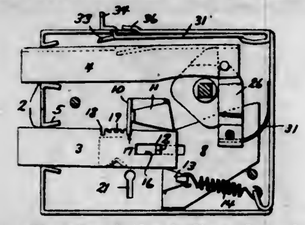


2. A duplex fabric for use in the manufacture of bags for fruits and vegetables, comprised partly of open-mesh material and partly of close-mesh material made in one piece, such mesh so arranged that when the fabric is stitched in the form of a bag, one side of the bag is close-mesh and the other side of the bag open-mesh, with a close-mesh selvaged margin on the open-mesh section of the fabric to strengthen seams.

1,942,087
STEEL DOORLOCK
Samuel Cooper, Columbiana, Ohio
Application April 7, 1933. Serial No. 664,966
4 Claims. (Cl. 70—29)

1. In a lock of the class described, a bolt formed of a plurality of superimposed sections, a pivoted member upon a part of which the inner end of the bolt slides, said bolt having an elongated slot in its inner part, a projection on the pivoted member extending through the slot, a dog on the pivoted member and the bolt having notches therein engaged by the dog when the pivoted member is in lowered position, said pivoted member being adapted to be rocked on its pivot by

a key for raising the dog out of a notch in the bolt and said sections of the bolt having key engaging notches therein of different sizes whereby



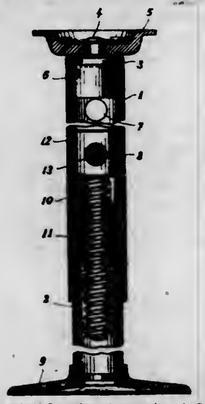
the key will retract the bolt and spring means for normally holding the pivoted member in lowered position.

1,942,088

ADJUSTABLE STRUT FOR STAGINGS

Jakob Dietrich, Dietlikon, Switzerland, assignor to the firm E. Krebs & Co., Dietlikon, Switzerland

Application August 31, 1933, Serial No. 687,692, and in Switzerland September 5, 1932
2 Claims. (Cl. 254—86)



1. In an adjustable staging strut formed of two telescoped pipe ends in combination, the inner pipe formed as the lower portion of the strut with a base-plate and an inner nut secured fast into its top end, the outer pipe carrying a pivoted turning head-plate and provided with a series of through holes arranged at equal distances from one another, an adjusting screw screwed into said nut and fitted with its perforated head into the inside of the upper pipe, and an outwardly projecting cross-pin stuck through one of the holes of the upper pipe and the perforation of the adjusting screw head and serving as a handle for adjusting the upper pipe to the lower.

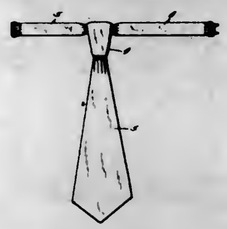
1,942,089

TIE

Irwin J. DuBon, Garden City, N. Y.

Application May 4, 1932. Serial No. 609,212
1 Claim. (Cl. 2—155)

In a sectional necktie including a pair of meeting section ends, hook and eye means separably connecting the section ends, said hook and eye eye means comprising an elongated eye through which one of the section ends is passed and then secured to the side of the section end so as to secure one longitudinal side of the eye to the section end, and a closed loop forming a hook of the same longitudinal dimension as the eye and through which the remaining section end is passed and then secured to one side of the remaining section end so as to secure one longitudinal side of the hook to the remaining section end, a portion between the ends of the opposite sides of the hook being displaced outwardly and then later-



ally and return bent to provide a hook form for passing through the said eye and engaging the free longitudinal side of the eye, the hook form being of a size to engage the ends of the eye when so engaged with the free longitudinal side of the eye whereby movement of the hook relative to the eye in a direction transversely of the section ends is prevented.

1,942,090

PROCESS OF MOLDING CELLULOSE DERIVATIVES

Arthur Eichengrün, Charlottenburg, Germany, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application June 4, 1928, Serial No. 282,878, and in Germany May 31, 1927
1 Claim. (Cl. 18—51)

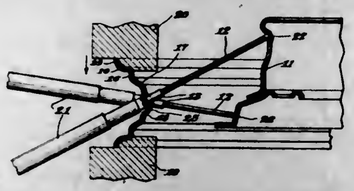
Process of preparing products containing a derivative of cellulose comprising swelling the derivative of cellulose in an excess swelling agent for the same, removing the excess of swelling agent not absorbed therein, adding a plasticizer thereto and molding the same under heat and pressure.

1,942,091

MANUFACTURE OF WIRE WHEELS

Carolus L. Eksergian, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 30, 1932. Serial No. 627,052
6 Claims. (Cl. 29—159.02)



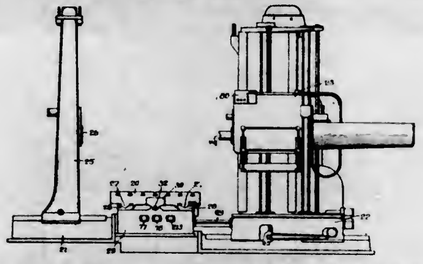
1. The method of forming a vehicle wheel consisting of hub and rim members interconnected by spokes, which comprises flexing one of said members within its elastic limit by pressure applied axially of said member, securing the spokes in their final condition with respect to said members while the member is flexed, and thereafter releasing the pressure to allow the natural resilience of the flexed member to effect the desired tension by reason of its tendency to resume its normal shape.

1,942,092

REMOTE CONTROL FOR MOVABLE MEMBERS OF MACHINE TOOLS

Keith F. Gallimore, Fond du Lac, Wis., assignor to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis., a corporation of Wisconsin

Application June 5, 1931. Serial No. 542,262
33 Claims. (Cl. 29—26)



1. In a machine tool, in combination, an operable machine element, a support for said element, means for actuating said element, said means including a connection control device movable into an operative position and an inoperative position, a shifter rod for moving said device into either position, a crank operatively connected to said rod, and a reversible electric motor for actuating said crank.

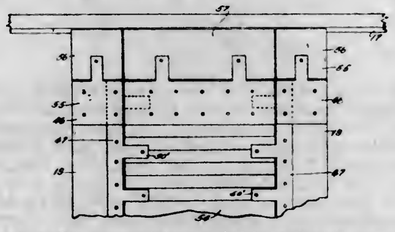
10. In a machine tool, in combination, a movable machine element, a support for said element, means including a reversing clutch having an intermediate neutral position for driving said element in opposite directions, a shifter rod for said clutch, a lever connected intermediate its ends to said rod, two crank arms connected respectively to opposite ends of said lever, two cranks operatively connected respectively to said arms, said cranks in neutral position of said clutch occupying angular positions differing in phase, means for limiting the rotation of each crank to less than one revolution, two worm and worm wheel assemblies respectively connected to said cranks, two reversible electric motors respectively connected to said assemblies, and means for selectively controlling the operation of said motors.

1,942,093

FORM FOR CONCRETE FLOOR CONSTRUCTION

William M. Goldsmith and Benjamin Harig, Cincinnati, Ohio, assignors, by mesne assignments, to said William M. Goldsmith

Application July 17, 1929. Serial No. 379,021
14 Claims. (Cl. 25—131.5)



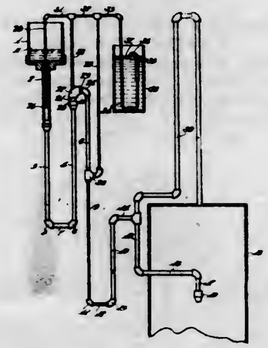
1. A soffit comprising a table member, a joist or brace member secured thereto at substantially right angles therewith, a strap member secured to the end and adjacent side edges of the brace at each end thereof, said strap providing a sleeve extending transversely of the end edges of the brace adjacent the lower portion thereof, extension members receivable one each upon each end of the brace, each extension member having slotted sides and a base slidable upon said strap, the slots of the sides being aligned with said sleeve, a pin passing through the sleeve and slots and means passing through the brace and slots and spaced from the pin, for adjusting the extension on the brace.

1,942,094

FLOW CONTROL APPARATUS

Herbert A. Gollmar, West Caldwell, N. J., assignor to The Koppers Company of Delaware, a corporation of Delaware

Application March 23, 1929. Serial No. 349,350
7 Claims. (Cl. 137—106)



1. In apparatus for controlling the flow of liquids, a pipe having an inlet end and an outlet end for liquid, a portion of said pipe extending substantially downwardly from said inlet end, a second portion joined to the first named portion and extending upwardly, a third portion joined to the said second portion and extending downwardly to a point below the joint between the first named portion and the second named portion, the said third portion comprising an upper and a lower section, the said lower section being less in diameter than the said upper section, a fourth portion joined to the said third named portion and extending upwardly to a point above the said joint between the first named portion and the second named portion, and an outlet portion joined to the said fourth named portion and extending substantially downwardly, the said first, second and fourth portions and the upper section of the third portion being of substantially the same diameter.

1,942,095

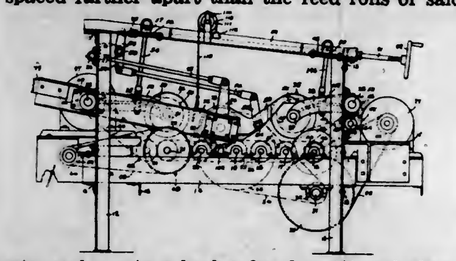
WOOD BARKING MACHINE

Joseph Gruber, Stanwood, Wash., assignor to International Wood and Sulphite Co., Seattle, Wash.

Application May 8, 1931. Serial No. 535,850
14 Claims. (Cl. 144—208)

4. In a slab barking machine a plurality of sets of driven feed rolls arranged in substantial feeding alignment, each set comprising a plurality of laterally spaced apart peripherally spiked disc like members parallel to the line of feed affording clearance therebetween for projecting portions of a slab; a feed table at one end of said sets of rolls; said feed table having a trough like groove in alignment with the clearance space between said feed rolls; feed roll guard means

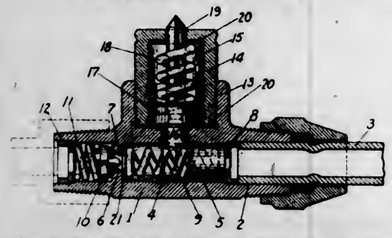
positioned at the sides of said feed rolls and spaced farther apart than the feed rolls of said



sets, and a rotary barker head positioned above said sets of feed rolls.

1,942,096
CONTROL FOR PRESSURE FEED LUBRICATING SYSTEMS

Theodore W. Hallerberg, Hawthorne, Calif., assignor, by mesne assignments, to The Commerce Guardian Bank, Toledo, Ohio, as trustee
Application May 26, 1931. Serial No. 540,189
24 Claims. (Cl. 184—7)



1. In a lubricating line, means operable by pressure in the line to supply an initial high pressure charge to a part to be lubricated, and means automatically operable to subsequently supply a low pressure charge to such part.

1,942,097
CONTROL FOR PRESSURE FEED LUBRICATING SYSTEMS

Theodore W. Hallerberg, Madison, Wis., assignor to The Commerce Guardian Bank, trustee, Toledo, Ohio, a corporation of Ohio
Application July 2, 1932. Serial No. 620,717
19 Claims. (Cl. 184—7)

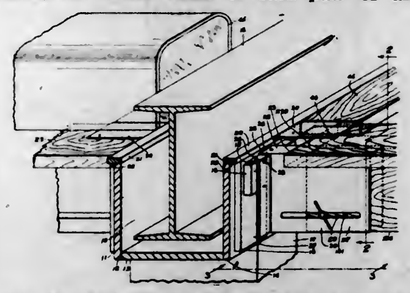


1. In a lubricating line, means operable by feeding pressure in the line to supply an initial high pressure charge to a part to be lubricated, and means telescoped within said first means and automatically operable to subsequently supply a predetermined low pressure charge to such part.

1,942,098
TEMPORARY CONSTRUCTION MOLD

Benjamin Harig, Cincinnati, Ohio, assignor, by mesne assignments, to William M. Goldsmith, Cincinnati, Ohio
Application April 16, 1927. Serial No. 184,390
26 Claims. (Cl. 25—131.5)

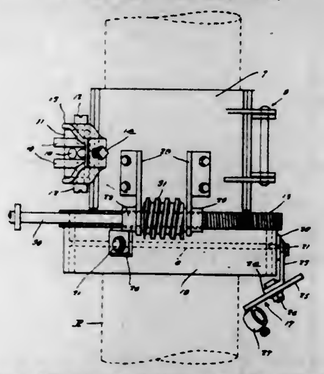
6. The combination of mounted, spaced support members, lengthwise adjustable parallel spaced soffits having extensions at their ends for contacting upon the support members for suspending the soffits from said support members, framing between the soffits and supported by and between the soffits, tiles supported by the soffits and forming with said soffits and framing a single mold for a monolithic slab and depending concrete joist structure, said soffits comprising a table and a depending brace, collar members comprising two pairs of angle irons, an arm of each of one pair of angle irons extending in parallelism on opposite sides of the soffit braces, the other arms of said pair of angle



irons disposed in the same plane and resting upon an arm of each of the second pair of angle irons, said second pair of angle irons extending at right angles to said first pair of angle irons and having their respective second arms depending in substantial parallelism with one another, whereby a way is provided between them, stringers received and held in said way, and shoring below said stringers for supporting a load the weight of which is directed upon the soffits and stringers.

1,942,099
PIPE CUTTING AND BEVELING APPARATUS

Elonza L. Hart, Charleston, W. Va.
Application February 23, 1933. Serial No. 658,261
3 Claims. (Cl. 266—23)

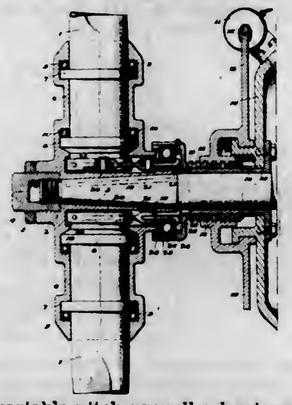


1. In a structure of the class described, a pipe clamp comprising a pair of substantially duplicate V-shaped companion members adapted to embrace the pipe, said members being hingedly connected together at one end, the relatively movable member being provided at its free end with apertured spaced parallel lugs, an eccentric mounted in the apertures of said lugs, a retention lug carried by the corresponding end of the remaining member, a swingable yoke swingably connected with the eccentric and swingable over the retention lug, a set screw carried by the yoke and engageable with said last named lug, an operating lever connected with said eccentric,

a relatively stationary supporting ring carried by one of the members of the clamp, together with tool carrying and operating means mounted for rotation on said ring.

1,942,100
PROPELLER

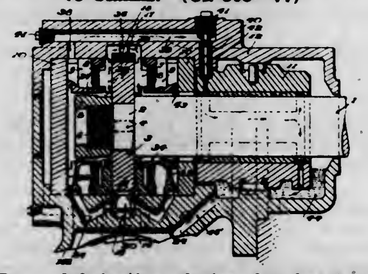
George F. Houston, South Bend, Ind., assignor to Bendix Research Corporation, East Orange, N. J., a corporation of Indiana
Application October 31, 1930. Serial No. 492,532
3 Claims. (Cl. 170—163)



1. A variable pitch propeller having a hub and a plurality of blades rotatably carried thereby, means for rotating said blades, means for varying the angularity of the blades during rotation, said last-named means comprising an electric motor, a worm connected to the shaft of said motor, a worm gear concentrically disposed with respect to said rotating means and meshing with said worm, a sleeve member, means for connecting the worm gear and sleeve whereby rotation of the former will move the latter longitudinally with respect to the rotating means, said sleeve having a hub portion providing a bearing support, a bearing mounted within said hub portion, an annular member enclosed within said hub portion and providing a bearing support and links enclosed within the said propeller hub and said hub portion and connecting said blades to said annular member.

1,942,101
LUBRICATING DEVICE AND SYSTEM

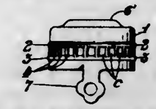
Harry A. S. Howarth, Philadelphia, Pa., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application March 14, 1930. Serial No. 435,881
78 Claims. (Cl. 308—77)



1. In a lubricating device for bearings, in combination with a shaft and one or more bearings to be lubricated, a collar rotating with the shaft, and a channel-shaped lubricating ring cooperating with but in action relatively stationary with respect to said collar and providing a chamber between the periphery of said collar and the inside of said ring, said ring having adjacent passages for leading oil to and from said chamber.

1,942,102
HERMETIC SEAL FOR BOTTLES

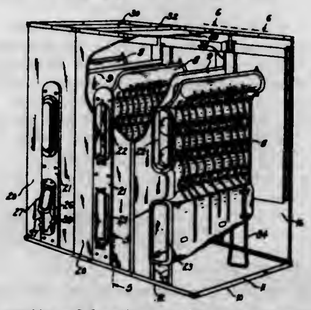
Naoichi Ito, Imazu-Cho, Muko-Gun, Hyogo-Ken, Japan, assignor to Chisada Ohta, Kita-Ku, Osaka, Japan
Application February 25, 1932, Serial No. 595,162, and in Japan March 2, 1931
1 Claim. (Cl. 215—39)



A closure for bottles of the type having an annular groove in the neck below the mouth, consisting of a cap shaped metal structure adapted to seat in the mouth of a bottle, and having a cylindrically extended flange comprising two annular, respectively, upper and lower embossments, horizontally encircling the middle portion of the cylindrically extended flange, in parallel relation and a number of vertically disposed linear embossments formed between the horizontal embossments, whereby, on the compression of the uppermost horizontal embossment, in applying the closure, the portion of the flange between the vertical embossments will be forced into the annular groove of the bottle, and thereby secure the closure tightly, to the neck of the bottle.

1,942,103
HEATER CASING

Edwin A. Jones, Milwaukee, Wis., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis., a corporation of Wisconsin
Original application February 5, 1931, Serial No. 513,470. Divided and this application September 28, 1931. Serial No. 565,418
6 Claims. (Cl. 126—114)

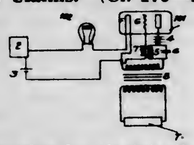


1. A sectional heater casing, comprising a sectional rectangular base frame, detachably secured together side and end wall sections having their lower edge portions detachably mounted in said base frame, and a sectional casing top formed of a plurality of identical top sections having flanged edge portions, said top sections being positioned in mutual alinement and adjacent flanged edges of the top section being engaged and detachably secured together, other flanged edges of the top sections being engaged with and detachably secured to upper portions of side and end wall sections.

1,942,104
PROCESS OF EXTRACTING ROTENONE FROM PLANT MATERIAL
Howard A. Jones, Washington, D. C., dedicated to the free use of the Government and the people
No Drawing. Application February 20, 1933 Serial No. 657,686
4 Claims. (Cl. 260—123)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

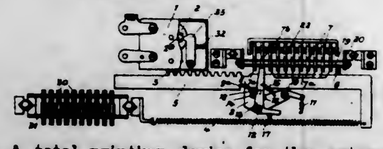
4. A process for making a chemical compound which consists substantially in extracting a plant material containing rotenone with warm carbon tetrachloride, and crystallizing.

1,942,105
APPARATUS FOR THE LIGHTING OF LUMINESCENT TUBES
Daniel Paul Albert André Kayser, Paris, France
Original application January 21, 1928, Serial No. 250,874, and in France February 11, 1927. Divided and this application July 29, 1929. Serial No. 381,961
7 Claims. (Cl. 176—124)



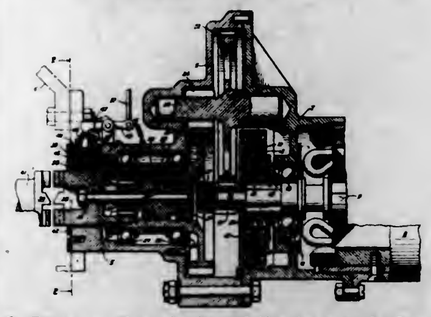
1. An apparatus for electrically controlling the degree of illumination of a luminescent tube and the formation of luminous beads or nodules therein comprising a three electrode electron tube adapted to act as a high frequency generator, a filament heating circuit for said tube, means for periodically opening and closing said filament heating circuit, means in said circuit for progressively changing the resistance thereof upon operation of the first mentioned means and means for feeding the luminescent tube with the high frequency variable voltage current generated by the electron tube.

1,942,106
TOTAL-PRINTING DEVICE
August Kottmann, Sommerda, Thuringia, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany, a corporation of Germany
Application July 19, 1933, Serial No. 681,230, and in Germany January 25, 1930
5 Claims. (Cl. 235—59)



1. A total printing device for the automatic transferring of numerical values from the stationary counter mechanism of a calculating machine to a sheet arranged in a typewriter, comprising a series of racks, a feeler device having a series of feeler elements corresponding to the digits 0—9, and a space key which cooperates with the said racks, which in turn cooperate with the respective number wheels of the calculating machine; a carriage carrying said elements, said carriage being arranged to move across the mechanism of the calculating machine to cause the feelers to be actuated successively by the counter mechanism in the successive decimal places; and means for transmitting the resultant actuations to the typewriter to operate the corresponding keys thereof.

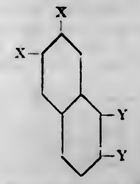
1,942,107
ENGINE STARTER
Raymond P. Lansing, Montclair, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application February 20, 1932. Serial No. 594,356
17 Claims. (Cl. 74—7)



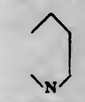
1. In an engine starter of the type embodying a driven member adapted to engage the crankshaft of an engine and means for rotating said member, the combination with said driven member of means cooperating therewith for causing said driven member to move into engagement with said crankshaft, said means including a brake adapted to frictionally engage said driven member, electro-magnetic means for effecting the frictional engagement between said driven member and said brake and resilient means constantly tending to prevent such frictional engagement.

1,942,108
HYDROXY-BENZO-QUINOLINE-CARBOXYLIC ACIDS
Leopold Laska and Oskar Haller, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application March 16, 1932, Serial No. 599,342, and in Germany March 25, 1931
6 Claims. (Cl. 260—40)

1. The compounds of the following general formula:



wherein one X stands for hydroxyl, the other X for carboxyl, and the Y's jointly stand for the grouping

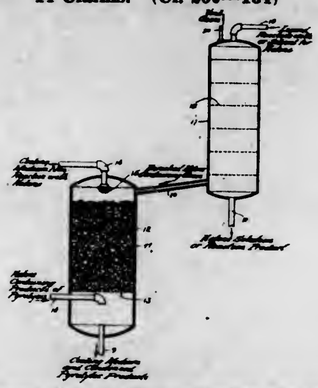


being crystallized colored compounds, very difficultly soluble in most of the organic solvents, soluble in dilute alkalies and giving in alcoholic solution intense colorations on the addition of ferric chloride.

1,942,109
PROCESS OF PREPARING PEANUT FLOUR FOR THE MANUFACTURE OF ADHESIVES
Irving F. Laucks, Seattle, Wash., assignor to I. F. Laucks Inc., Seattle, Wash, a corporation of Washington
No Drawing. Application January 19, 1928 Serial No. 248,015
3 Claims. (Cl. 87—17)

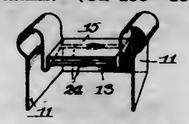
3. An adhesive composition having a peanut flour base comprising an oil-free peanut flour, the protein of which has been at least partially coagulated by heat, and an alkaline aqueous dispersion medium, said flour being characterized in that it imparts to the resultant adhesive a marked increase in viscosity, water resistance and strength.

1,942,110
PROCESS FOR MAKING REACTION PRODUCTS OF KETENE
George H. Law, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application February 16, 1932. Serial No. 593,354
14 Claims. (Cl. 260—134)



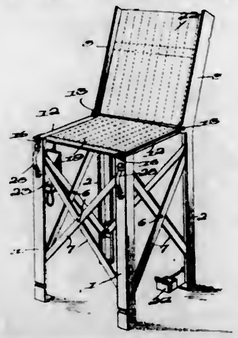
1. Process for making reaction products of ketene which comprises rapidly passing gaseous products of pyrolysis including ketene into intimate contact with a liquid cooling medium which is non-reactive with ketene at a temperature such as to cause the removal of substances less volatile than ketene in said gaseous products by said liquid medium, and thereafter utilizing said gaseous products to form reaction products of ketene.

1,942,111
FURNITURE SLIP COVER
Julius Levi, Chicago, Ill., assignor to Sam Pass, Chicago, Ill.
Application June 29, 1932. Serial No. 619,867
5 Claims. (Cl. 155—182)



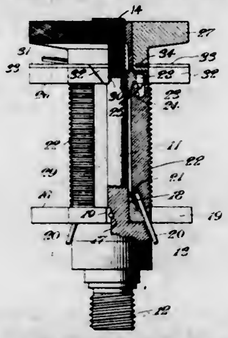
2. A slip cover for an article of over-stuffed furniture comprising inclosures for the arms and back of said article and a seat panel connected to said inclosures, said panel being in the form of a trapezoid with the shorter of the two parallel edges thereof disposed at the front of the seat of said article and of substantially the same width as the front of said seat.

1,942,112
COLLAPSIBLE CHAIR
Dwight E. McQuilkin, Roanoke, Va.
Application November 6, 1931. Serial No. 573,441
8 Claims. (Cl. 155—140)



1. A collapsible chair comprising a seat, angular legs having guides on the inner sides thereof, slides mounted in the guides, and pairs of crossed-bars arranged between the legs and having the ends thereof pivoted to the legs and to the slides.

1,942,113
COIL WINDING MANDREL
John G. Meyers, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application December 6, 1929. Serial No. 412,050
6 Claims. (Cl. 242—72)

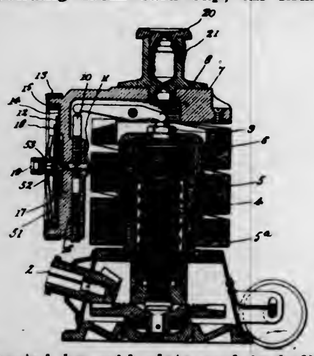


6. An expansible and collapsible coil winding mandrel comprising, in combination, a plurality of arcuate-shaped sectional members forming a mandrel core having on an end face a circumferentially extending groove, an annular spring lying in the said groove and normally tending to draw the members together to collapse the mandrel, wire positioning ridges on the outer surfaces of said sectional members, end flanges for said core, and means on said end flanges for forcing the core members apart to expand the mandrel.

1,942,114
LIFTING APPARATUS
André Jules Michelin, Paris, France, assignor to Michelin et Cie., Clermont-Ferrand, France, a corporation of France
Application January 14, 1931, Serial No. 508,776, and in France March 7, 1930
5 Claims. (Cl. 265—68)

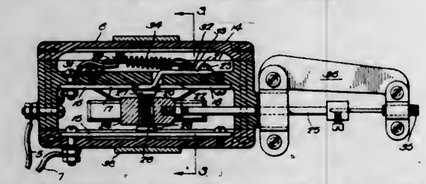
1. In a device of the character described, a jack, a cylindrical support coupled to move with the jack and extending about the jack and hav-

ing an outwardly extending flange at its lower part, a coil spring seated on said flange and projecting above said support, a cap resting on said spring, a load receiving member on said cap, a plate depending from said cap, an indicating



means carried by said plate and including an indicating shaft, an operating member for said shaft mounted within said plate, and a lever fulcrumed to the interior of said cap having one end engaging the jack and the other end engaging said operating member.

1,942,115
AUTOMOBILE APPLIANCE
Samuel Milone, Camden, N. J., assignor of forty-nine one-hundredths to Carl W. Miller, Anna B. Miller, and Annie Cronin, all of Stonehurst, Pa., trustees for Duall Laboratories, Philadelphia, Pa.; seventeen one-hundredths to Percy E. Hart, Camden, N. J., as trustee for George Martin Hart, a minor; and two one-hundredths to Franklin R. Cawl, Bryn Mawr, Pa.
Application February 24, 1933. Serial No. 658,465
8 Claims. (Cl. 123—146.5)



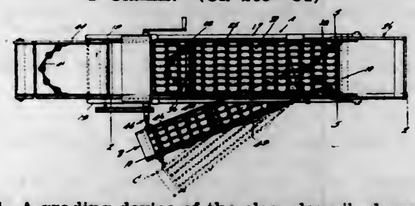
1. In combination with an internal combustion engine and an ignition circuit therefor, a time-delay switch, and means for including said switch directly in said circuit at desired times to open said circuit after a predetermined interval, and for excluding said switch entirely from said circuit at other times.

1,942,116
COMBINED BLOW-OUT PATCH AND PLUG
Thomas W. Mullen, El Dorado, Ark.
Application November 20, 1931
Serial No. 576,360
14 Claims. (Cl. 152—26)



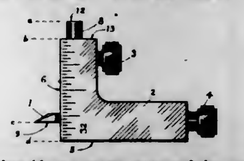
1. A device for repairing the casing of a tire comprising a plug to fill a hole in the casing, and a regular blow-out patch to which the plug is attached at the inner end, said patch extending across the end of the plug with undiminished thickness thereby protecting the plug with the full cross section of the patch.

1,942,117
ARTICLE SEPARATING AND GRADING APPARATUS
Nelson H. Norris, Bath, N. Y.
Application March 9, 1931, Serial No. 521,293
Renewed May 3, 1933
4 Claims. (Cl. 209—84)



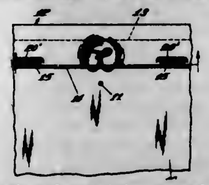
1. A grading device of the class described comprising a number of grading frames arranged in fan-shaped formation with their inlet ends arranged one above the other and their outlet ends spaced apart, an endless grading belt in each frame, a receptacle in each frame for receiving articles passing through the belt thereof, and a chute for each receptacle for conveying the articles therefrom into the frame next below the frame in question.

1,942,118
GAUGE
Joseph Pignone, New York, N. Y.
Application April 14, 1932. Serial No. 605,284
5 Claims. (Cl. 33—169)



1. A combination gauge comprising an L shaped gauge stock having the outer surfaces of the legs precisely at right angles to each other, and adapted for use in association with a surface plate, the base of the L being precisely parallel to the upper end surface of the perpendicular leg, the perpendicular leg being apertured throughout its length and having a communicating slot extending through the outer surface of the latter leg, and a rod slidable through said aperture and provided with a laterally extending pointer slidable through said slot.

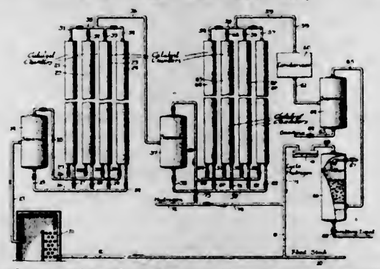
1,942,119
SECURING TRIM PANEL
Bion C. Place, Detroit, Mich., assignor of one-half to George E. Gagnier, Detroit, Mich.
Application April 11, 1932. Serial No. 604,528
11 Claims. (Cl. 45—138)



5. A foundation for a trim panel consisting of a body of fibrous material cut substantially to the outline of the surface to be covered, and a soft deformable metallic binder enclosing certain edges thereof and pressed into said body, said binder being of the order of one one-hundredth of an inch whereby the thickness of said edges is not materially increased.

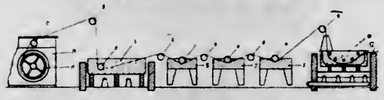
10. The method of applying fasteners to a metal bound body of a trim panel, which consists in forcing a part of each fastener between the metal binder and said body by deformation of the binder.

1,942,120
HYDROGENATION SYSTEM
William B. Plummer, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application July 17, 1930. Serial No. 468,589
5 Claims. (Cl. 196—53)



1. Apparatus for destructive hydrogenation of petroleum oils comprising a heating zone, a separator in continuous communication therewith wherein hot liquids and vapors are separated, a plurality of elongated catalyst chambers arranged for parallel flow, means for separately controlled flow of both liquid and vapor to each of said chambers comprising separate inlets to each chamber for the hot liquid and hot vapor from the separator, means for withdrawing products from the catalyst chambers, and means for cooling and recovering the same.

1,942,121
PROCESS OF ANNEALING AND ZINC COATING FERROUS ARTICLES
William Harold Potter, Warrington, England
Application June 20, 1931, Serial No. 545,822, and in Great Britain July 19, 1930
2 Claims. (Cl. 91—70.3)



1. Method of manufacture of zinc coatings on ferrous metal by use of a heated chemical containing bath, characterized by the fact that the ferrous metal before being zinc coated is introduced into a bath containing calcium cyanamide.

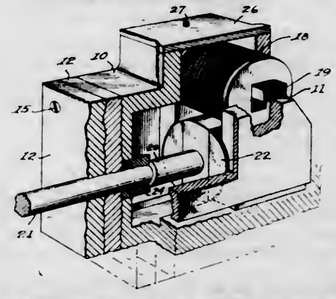
1,942,122
GOLF CLUB
Milton B. Reach, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a corporation of New Jersey
Application June 6, 1931. Serial No. 542,623
3 Claims. (Cl. 40—2.2)

1. In combination with a golf club shaft, a plug in the upper end thereof, having a central socket, a cap to fit over said plug, and having a flange at its margin fitting down along the outer side of the plug, and having also a central pendant stem integral therewith, fitting in the central socket of the plug, said plug having an opening extend-



ing transversely thereof, means in said opening connected with the pendant stem for holding the cap in place, and a grip having its upper edge abutting the downwardly facing edge of the flange of the cap, substantially as described.

1,942,123
MAGNETO
Curt F. Reis, Chicago, Ill., assignor to Excel Magneto Co., Chicago, Ill.
Application July 22, 1930. Serial No. 469,882
1 Claim. (Cl. 171—209)



A magneto comprising a plurality of pole pieces embedded in a housing of cast non-magnetic material, with their ends exposed; a rotor within said housing between said pole pieces; a plurality of flat permanent magnets removably mounted in magnetic relation to the exposed ends of the pole pieces and threaded over the rotor shaft; and a generating coil magnetically associated with said pole pieces and rotor.

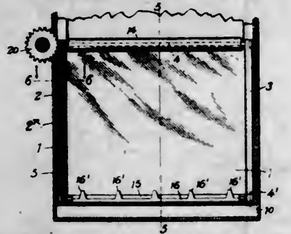
1,942,124
SHOW CASE
Joseph Robeck, Lincoln, Nebr.
Application May 24, 1933. Serial No. 672,658
3 Claims. (Cl. 312—118)



2, A show case having an upwardly and rearwardly inclined window, an interior partition parallel to said window and spaced therefrom, a plurality of guideways secured to said partition, a plurality of narrow, elongated panels slidable up and down in a plane parallel to and between said window and said partition, said panels and said partition terminating at a common upper level and being in close proximity to each other, and means for grasping said panels, said means pro-

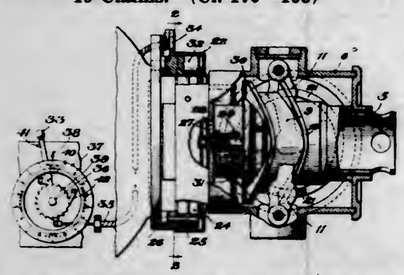
jecting rearwardly from the upper rear surface of said panels into the plane of said partition, said partition having cutaway portions in its upper edge for receiving said grasping means.

1,942,125
WINDOW SASH
David E. Ross, La Fayette, Ind., assignor to Rostone, Incorporated, La Fayette, Ind., a corporation of Indiana
Original application July 18, 1932, Serial No. 623,266. Divided and this application January 3, 1933. Serial No. 649,981
7 Claims. (Cl. 189—76)



1. A glazed metal sash comprising a glass plate, bars at opposite ends of the plate and tie rods connecting the bars and causing them to clamp the plate between them, the plate giving rigidity to the structure.

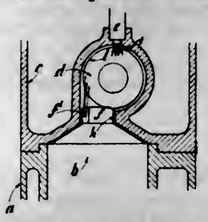
1,942,126
VARIABLE PITCH PROPELLER
Harris C. Roth, South Bend, Ind., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application June 30, 1932. Serial No. 620,260
19 Claims. (Cl. 170—163)



1. A propeller comprising a driving shaft, a hub on said shaft, a plurality of blades rotatably carried by said hub, and pitch-changing means associated with said blades including a control member movable in one direction only for both increasing and decreasing the pitch of the blades, said member being positioned exteriorly of said propeller.

1,942,127
INTERNAL COMBUSTION ENGINE
Frederick Clifton Russell, Altrincham, and John Henry Bradbury, Ashton-on-Mersey, England
Application November 25, 1931, Serial No. 577,282, and in Great Britain and Ireland February 5, 1931
6 Claims. (Cl. 123—32)

1. In an internal combustion engine having a separate ignition chamber shaped substantially as a volume of revolution with a tangential inlet passage communicating with the engine cylinder, into which passage a projection on the engine piston is adapted to enter, restricting the same so as to deliver the last portion of the charge tan-



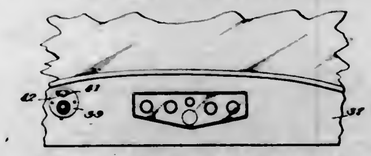
gentially into the chamber as a jet with relatively accelerated velocity; an inwardly directed fuel injection jet in the periphery of the ignition chamber arranged in a zone of revolution off set axially from the zone of revolution into which the jet of the accelerated charge is directed.

1,942,128
WORK SUPPORTING AND GUIDING MEANS
Ernst Sommer, Aue, Germany
Application March 26, 1931, Serial No. 525,575, and in Germany April 2, 1930
10 Claims. (Cl. 112—2)



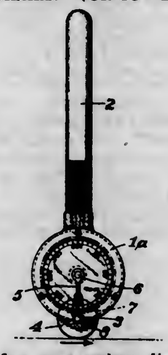
1. In a sewing machine, a driving device, a slotted work table, rollers positioned underneath said table, flexible connections adapted to be set in motion by said driving device and to run over said rollers, templates having grooves shaped to correspond with the course of the seam to be produced, a work holder having guide projections adapted to be guided in said grooves, said work holder having a stop projecting downward through a slot in said table, and a second stop carried on said flexible connections to engage the stop on the work holder and thereby to move said work holder forward.

1,942,129
GASOLINE LINE LOCK FOR AUTOMOBILES
Jesse E. Swaysee, Columbia, La.
Application December 29, 1931, Serial No. 583,784
Renewed November 23, 1933
4 Claims. (Cl. 70—90)



1. In combination with a gasoline feed line, a valve therein, a casing surrounding and enclosing said valve, said casing comprising telescoping sections, having registering openings therein, a slotted pin insertible in such registering openings to lock the sections of casing together, a valve actuating lever extending through the casing from a point exterior of it and connected to said valve, a projection carried by said lever and engageable in the slot of said pin in the normal action of opening and closing the valve, whereby the pin cannot be withdrawn and the casing cannot be disassembled for access to the valve, means comprising shoulders on said lever for normally abutting a fixed stop to limit movement of said lever and locking means for maintaining said lever in the open or closed position of the valve.

1,942,130
AUTOMOBILE MAP MILEAGE INDICATOR
Byron E. Woodcock, Scranton, Pa.
Application August 22, 1930. Serial No. 477,135
2 Claims. (Cl. 33—141)

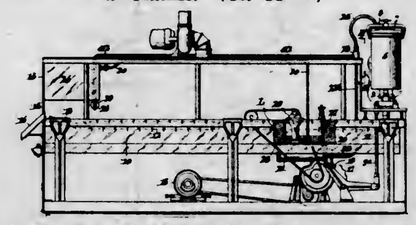


1. A device for measuring distances on scale drawn maps, comprising a pointer and an annular scale, a casing of shallow, cylindrical formation carrying one of said first parts, a train of gearing in the casing consisting solely of two different size spur gears, the larger of said gears being rotatably mounted in the casing and carrying the other of said first parts, a small shaft journaled in the lower side of the casing and having the smaller of said gears fixed thereto, the shaft extending outwardly beyond the casing, a traction wheel, means on said shaft upon which the traction wheel may be selectively secured and whereby traction wheels of different diameters may be selectively secured to said shaft to adapt the device for use with maps drawn to different scales, the traction wheel being provided on its outer face with an annular scale adapted to indicate distances, said first scale and the scales of the respective traction wheels being adapted respectively to be used to measure long and short distances on a map, means for removably securing the traction wheel to the shaft, said means being wholly located radially inward of the scale of the traction wheel so as not to obstruct the scale, and a handle extending radially from the upper side of the casing diametrically opposite the axis of the traction wheel.

1,942,131
SEPARATION OF GAS MIXTURES
Paul Baumann, Ludwigshafen-on-the-Rhine, Helmut Tanneberger, Mannheim, and Heinrich Schilling, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
Application January 24, 1931, Serial No. 511,076, and in Germany March 8, 1930
3 Claims. (Cl. 260—170)

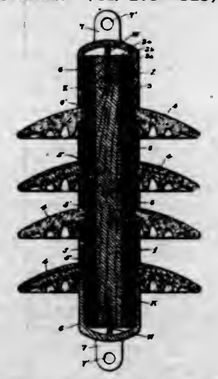
1. A process for the separation of acetylene from a gas mixture resulting from the treatment of a gas comprising methane in the electric arc, which comprises treating said gas with a solvent capable of dissolving acetylene, the said solvent having a temperature which is below the triple point of acetylene and selected from the class consisting of ethyl alcohol and acetone and then slowly heating said solvent.

1,942,132
FLUID FLOW CONTROL
Harry M. Blinn, Baltimore, and Herbert T. Hunter, Catonsville, Md., assignors to Doughnut Machine Corporation, New York, N. Y., a corporation of New York
Application June 13, 1929. Serial No. 370,555
2 Claims. (Cl. 53—7)



1. In a machine for cooking doughnuts and the like in hot liquor, a receptacle for the liquor; means including a dough magazine and die mechanism to form the raw doughnuts and to release them to drop into the receptacle; a system for supplying compressed air to the magazine of the forming means to effect extrusion of the dough through the die mechanism; a reservoir containing a reserve supply of cooking liquor and having a regulatable valve to normally control discharge of the reserve liquor into the cooking receptacle at a rate to compensate for absorption in the cooking; and means automatically operative upon depletion of the dough and attendant fall of the air pressure in the dough magazine to close the valve of the reserve liquor supply reservoir.

1,942,133
ELECTRIC INSULATOR
Edmund Burke, Portland, Maine, assignor to Brown Company, Portland, Maine, a corporation of Maine
Application March 18, 1931. Serial No. 523,475
7 Claims. (Cl. 173—318)



1. An insulator of the class described comprising a cylindrical dielectric stem investment of fibre, fibre hood members spaced thereon and all impregnated and sealed by a dielectric penetrant and a core of relatively high tensile strength tightly lodged within said tubular stem investment and terminal connecting members end sealing said tube and tightly embracing said

tube and core ends whereby tensile strains are transmitted through the core to the relief of the surrounding fibrous dielectric insulation.

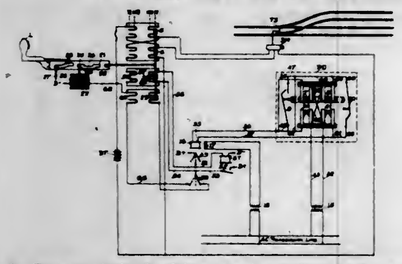
1,942,134

INTERLOCKING SYSTEM FOR RAILROADS

Charles S. Bushnell, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application December 9, 1929. Serial No. 412,767

19 Claims. (Cl. 246—135)



1. In an interlocking system for railroads, a remotely controlled function, means indicating in the tower the condition of said function, a control lever for governing said function, locking means both preventing final movement of said lever except when actuated, and preventing movement of said lever to a new governing position when actuated, and means for actuating said locking means only after said indicating means has displayed a new indication.

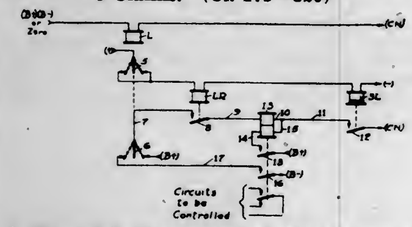
1,942,135

CENTRALIZED TRAFFIC CONTROLLING SYSTEM

Charles S. Bushnell, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application August 11, 1931. Serial No. 556,423

9 Claims. (Cl. 175—320)



1. In combination, a neutral relay having contacts capable of assuming either of two positions, a control circuit for said neutral relay including a first winding, and means including a second winding and a stick contact in series therewith for causing the contacts to assume one or the other of their two positions depending upon the direction of current flow in said control circuit.

1,942,136

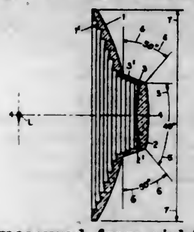
LIGHT SIGNAL LENS

Ainslie T. Carter, Coldwater, and Edmund W. Moore, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.

Application January 12, 1927. Serial No. 160,659

2 Claims. (Cl. 177—329)

1. In a cupped lens for light signals, a main portion having concentric prisms for projecting light along the optical axis of the lens, a forwardly projecting bull's eye bearing parallel prisms for projecting light along the optical axis and through an angle of approximately 40° to the axis, and a portion intermediate the main portion and the bull's eye, and concentrically stepped, for projecting light through an angle of approxi-



mately 50° measured from right angles to the optical axis toward said optical axis.

1,942,137

COMBINED METALLIC BASE AND CONDUIT

Andrew J. Connell and Jacob Cohen, College Point, N. Y., assignors to Superior Steel Door and Trim Co. Inc., College Point, N. Y., a corporation of New York

Application May 15, 1929. Serial No. 363,365

4 Claims. (Cl. 247—3)



1. A combined metallic base-member and conduit embodying, in combination, a conduit body composed of a pair of longitudinally-extending metallic strips each bent to form a body portion and an interior conduit portion and each provided with a groove, one of said grooves being arranged at an angle to the other and constituting a mortise groove and the other constituting an expansible gripping groove formed by providing one of said metallic strips with a reversely-bent marginal edge arranged in a position adjacent to the interior wall of the conduit to form a resilient gripping flange, and a cover plate arranged to bridge the space between said grooves and having one edge extensible into the mortise groove and its opposite edge provided with a spreading flange insertible into the said gripping groove and provided with frictional fastening means engageable with the walls of the gripping groove.

1,942,138

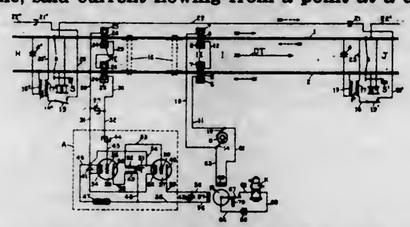
TRAIN CONTROL

Oscar H. Dicke and Neil D. Preston, Rochester, N. Y., assignors to General Railway Signal Company, Gates, N. Y., a corporation of New York

Application April 26, 1922. Serial No. 556,714

75 Claims. (Cl. 246—63)

1. In an automatic train control system of the type in which a control influence of the proper character must be present to allow the train to proceed unrestricted, of means carried by the train for producing a flow of current in the usual track rails ahead of the train at the particular time, said current flowing from a point at a dis-



tance ahead of the train through the track rails in opposite directions, and means on the train governed by said current for controlling the movement of said train.

1,942,139

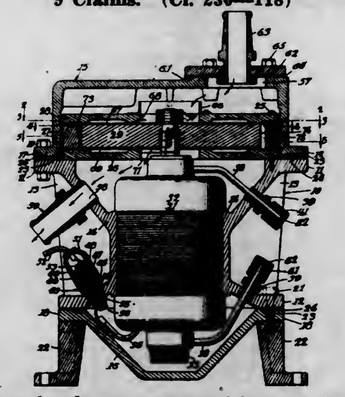
MOLECULAR VACUUM PUMP

John Dubrovin, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a corporation of Illinois

Application December 26, 1930

Serial No. 504,715

9 Claims. (Cl. 230—118)



1. A molecular pump comprising a casing having a flared upper portion and a cylindrical bore portion, a motor positioned within the bore and having its field laminations in close contact with the interior wall of the bore, two plates maintained in spaced relation upon the casing, a disk rotatably mounted between the two plates, said plates having gas conducting channels upon their opposed faces and a connecting channel extending about a major portion of the periphery of said disk, a shaft for said motor connected to said disk for rotating the same, said shaft extending through an enlarged unobstructed opening in one of said plates, caps closing the ends of the casing and an inlet to and outlet from the pump, said outlet being located in the flared upper portion of said casing.

1,942,140

ATTEMPERATOR FOR ROTARY KILNS AND THE LIKE

Johan S. Fasting, Valby, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey

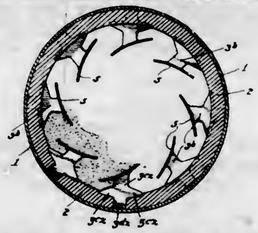
Application February 11, 1932, Serial No. 592,427, and in France April 11, 1931

2 Claims. (Cl. 222—7)

1. The combination with a rotary shell provided with a refractory lining and adapted to be

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traversed by material to be treated and by a gaseous medium and relatively thin, metallic members substantially transverse to the axis of the shell projected inwardly from the inner periphery of the shell to pass through the material and the gaseous medium in alternation and formed



to permit the passage of the material and the gaseous medium in an axial direction, each such member being formed of an annular series of independent sections, each section being formed with a foot bearing against and secured to the shell and with extensions to bear upon the lining without penetrating the same deeply.

1,942,141

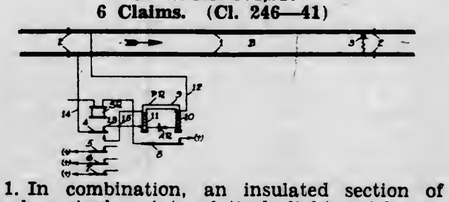
RAILWAY TRACK CIRCUITS AND RELAY THEREFOR

Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application December 10, 1930

Serial No. 501,247

6 Claims. (Cl. 246—41)



1. In combination, an insulated section of track, a single point, relatively light, quick acting relay connected across said section, and a plural point, relatively heavy, relay having an energizing circuit controlled by the quick acting relay, and a winding on the quick acting relay, controlled by the plural point relay so as to have a holding circuit for the quick acting relay including a part of said winding, and a pick-up circuit for the quick acting relay including more of said winding.

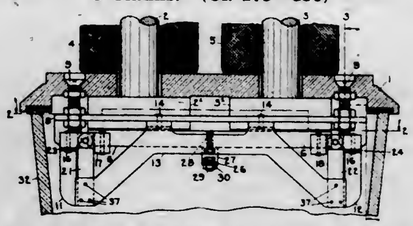
1,942,142

RELAY

Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application November 1, 1932. Serial No. 640,698

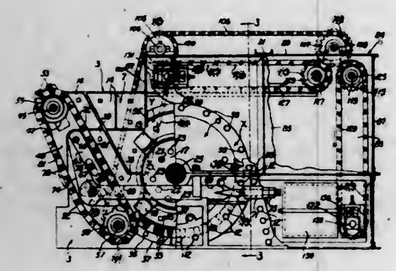
8 Claims. (Cl. 175—336)



1. In a relay, a vertical electro-magnet having horizontally spaced pole pieces, a frame, an arm-

ature, horizontal spring strips connecting the armature and said frame whereby the armature is maintained in a definite horizontal relation to said pole pieces, and vertical spring strips connecting said frame and points on said armature spaced horizontally from the axis of said electro-magnets whereby said armature is pivotably movable relative to said pole pieces by lateral flection of said horizontal and vertical spring strips.

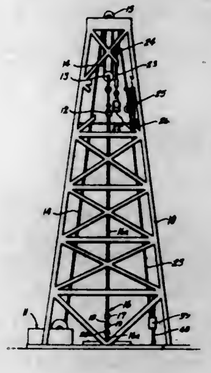
1,942,143
CRUSHER
Edward H. Frickey, Pasadena Park, Mo.
Application May 22, 1931. Serial No. 539,178
2 Claims. (Cl. 83—11)



1. In a crusher, rotary crushing hammers, means cooperating with said hammers at one tangent region to effect crushing, a crushed-material outlet associated with said hammers adjacent the crushing region, arcuately located cage bars below and adjacent to the hammers, said crusher having a foreign-material outlet adjacent said hammers beyond said cage bars, the crusher having a passage joining said outlet and leading to a region separate from the region of delivery of crushed material, said foreign-material outlet being arranged to provide substantial upward movement of foreign material tangentially from the hammers, and a reach of movable conveyor means directed laterally from said foreign material outlet and located thereabove and adapted to carry centrifugally separated foreign material away from said foreign-material outlet, and a second reach of conveyor means angularly located with respect to said first reach, said reaches each comprising a separate endless chain, and clean-out means located adjacent the end of the second reach, said cleanout means being at a point separate from the point of delivery of crushed material.

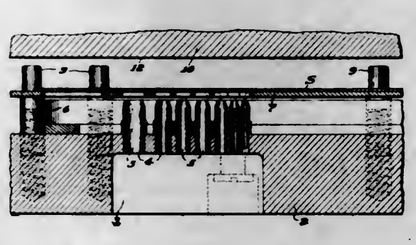
1,942,144
ROD HANDLING APPARATUS
Kenneth D. Fuller, Huntington Beach, Calif.; R. E. Hickerson, administrator of said Kenneth D. Fuller, deceased, assignor to R. E. Hickerson
Application February 12, 1932. Serial No. 592,517
17 Claims. (Cl. 254—178)

14. In rod handling apparatus for well derricks, a winding drum, means for mounting said drum in the upper part of the derrick, a cable wound around said drum, rod supporting means attached to one end of said cable, means for counterbalancing the rod weight, means for releasably holding said drum against rotation in one direction, and



means controllable by the tension in the cable for operating said drum holding means.

1,942,145
PERFORATING DIE
Chesterton S. Knight, Brockton, Mass., assignor to Geo. Knight & Co. Inc., Brockton, Mass., a corporation of Massachusetts
Application June 23, 1932. Serial No. 618,847
10 Claims. (Cl. 164—93)

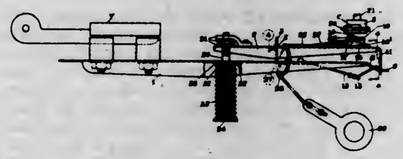


10. A perforating die comprising a main die plate having a substantially flat top and one or more recesses extend'ng thereinto from the lower face thereof thus providing a portion of reduced thickness between said top and the bottoms of said recesses, said die plate also having a series of holes extending through said reduced portion, a series of perforating tubes each having a shoulder resting on the top of said die plate and each provided with a reduced shank extending into one of said holes and having a pressed fit therewith, said die plate forming the sole supporting means for said tubes, an auxiliary die plate positioned on said main die plate, one or more perforating tubes secured rigidly in said auxiliary die plate, each of the latter tubes having a shank portion extending below the lower surfaces of said auxiliary die plate and projecting loosely into holes formed in them, respectively, in said main die plate, the latter tubes having shoulders resting on said main die plate, and means for removably securing said auxiliary die plate to said main die plate.

1,942,146
IMPREGNATED AND SUPERFICIALLY SMOOTHED ARTICLE
Leo Kollek and Wilhelm Engels, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application December 4, 1930, Serial No. 499,970, and in Germany December 19, 1929
12 Claims. (Cl. 91—68)
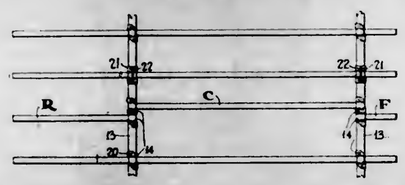
2. A solid article comprising a cellulosic body impregnated with a viscoid polymerization product of an alkylene oxide.

1,942,147
CONTACT FINGER FOR RELAYS
Joseph F. Merkel, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application August 9, 1928. Serial No. 298,449
5 Claims. (Cl. 200—146)



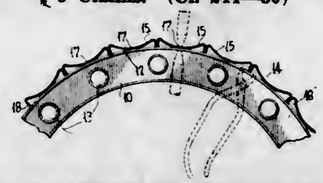
1. In a relay, a contact post having two fixed continuous contact members, one of refractory material and the other of a relatively low resistance metal, a movable contact finger having a pivoted biased contact piece having two projecting horns, said contact piece initially engaging said refractory fixed member with one horn as the finger is moved to its attracted position, and being rocked by such engagement to engage against said metallic fixed member with the other horn.

1,942,148
AIRCRAFT WING STRUCTURE
Earl J. W. Ragsdale, Norristown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 31, 1930. Serial No. 458,340
5 Claims. (Cl. 244—31)



1. A device for attaching metal trussed aircraft ribs having continuous chords to spars comprising a pair of sheet metal members each having a portion embracing a chord of the rib and secured thereto and continuous lateral wings of a longitudinal extent greater than said chord embracing portion and adapted to overlap at least two faces of a spar, the said members being arranged symmetrically on opposite sides of the central vertical planes of the spar, and secured to said spar in said overlaps.

1,942,149
AIRPLANE BODY
Earl J. W. Ragsdale, Norristown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 14, 1932. Serial No. 605,238
5 Claims. (Cl. 244—30)

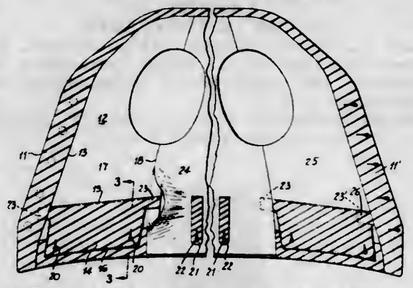


1. An aircraft body comprising transverse bulkheads and a longitudinal covering comprised of separate relatively narrow longitudinally extending sheet metal panels of transversely curved cross section throughout the length of the panels and flanged inwardly in their edges, the said panels being attached to the bulkheads through the central portion of their curved section, and attached to each other through the inwardly extending flanges adjacent their longitudinal edges.

1,942,150
ALLOY FOR SURGICAL NEEDLES
Wilhelm Rohn, Hanau-on-the-Main, Germany
No Drawing. Application July 30, 1932, Serial No. 627,117, and in Germany August 8, 1931
1 Claim. (Cl. 75—1)

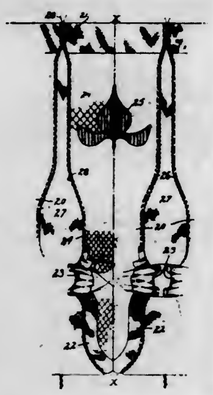
Surgical sewing needles, dental instruments and the like which require considerable stiffness and elastic hardness, made from an alloy containing iron up to 25%, beryllium 0.3 to 3%, chromium 10 to 20%, molybdenum 2 to 5%, tungsten 3 to 8%, and cobalt 1 to 5%, the remainder being nickel.

1,942,151
TROUSER SUPPORTING VEST
Herman Rosenthal, New York, N. Y.
Application March 25, 1933. Serial No. 662,780
2 Claims. (Cl. 2—102)



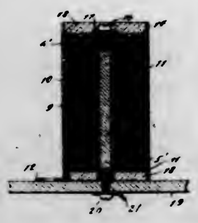
1. In a vest having on its inner side a cloth fabric border, a section of lining, and a second section of lining adjacent the first section of lining, a flap seamed to the first lining section, a line of stitching seaming together the said border, the said first lining section and said flap, and another line of stitching seaming together the first lining section, the said second lining section and said flap, and a tab secured to the second lining section at the lower portion thereof, said flap and said tab being provided with buttonholes adapted to engage with buttons secured to a pair of trousers whereby the latter is supported.

1,942,152
PROCESS OF WEAVING
Oskar Sauer, Philadelphia, Pa.
Application April 23, 1932. Serial No. 607,016
4 Claims. (Cl. 96—24)



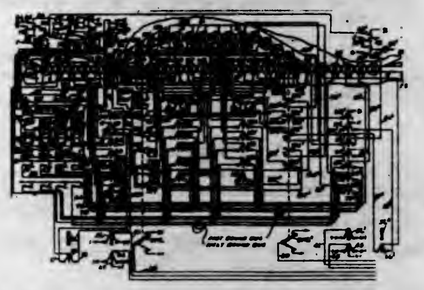
1. The method of weaving a fabric which consists in passing a plurality of individual weft threads back and forth through a warp at right angles to the plane of the warp, shifting certain of the warp threads laterally in predetermined order and to predetermined extent to interweave the warp and weft threads, gradually suppressing the shifting of the warp threads in a predetermined region to reduce the number of interwoven threads in said region with respect to that in the laterally adjacent portion of the fabric, beating up the interwoven threads at each pick into alinement normal to the longitudinal axis of the fabric, and drawing the warp threads from individual beams so as to permit increased take-up of the warp threads passing through said portion with respect to that of the warp threads passing through said regions.

1,942,153
ELECTRICAL CONDENSER
Stuart W. Seeley, Jackson, Mich., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application February 11, 1930. Serial No. 427,448
4 Claims. (Cl. 250—16)



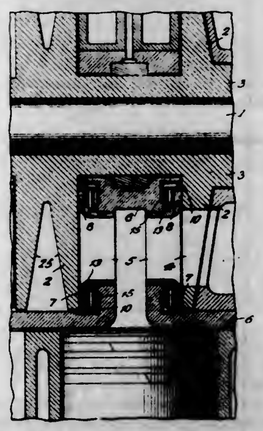
1. A by-pass unit for radio sets consisting of two spiral conducting foils, a layer of insulation therebetween and a conductor joined to and supporting said foils, said conductor having an inductive reactance equal to the capacity reactance of said conducting foils at a desired signal frequency.

1,942,154
ANIMATED TRACK DIAGRAM FOR RAILWAY SYSTEMS
Howard O. Snyder, Lima, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application August 5, 1930. Serial No. 473,229
10 Claims. (Cl. 246—3)



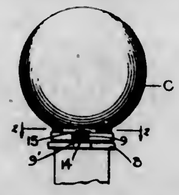
1. In an animated track diagram, the combination with a railway system, of a miniature track layout corresponding in every respect to said railway system, tokens representing trains movable over said miniature track, a direction lever for controlling wayside signals to control the direction of train movement, indicating means for manifesting the passage of a train, and means for propelling said tokens in accordance with the condition of said indicating means and said lever.

1,942,155
PACKING RING AND VALVE FOR INTERNAL COMBUSTION ENGINES AND THE LIKE
Harry P. Stevens, Ossining, N. Y., assignor to Stevens Motors, Inc., a corporation of New York
Application June 7, 1932. Serial No. 615,795
8 Claims. (Cl. 123—80)



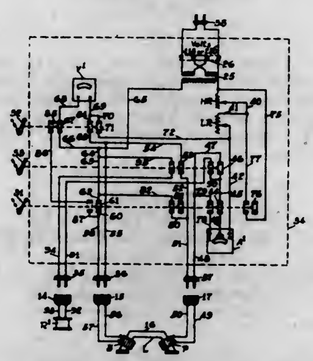
1. A unitary article of manufacture comprising, in combination, a stiff retaining ring, a thin resilient metallic diaphragm having one margin secured to said stiff ring, means for retaining the opposite margin of said diaphragm in fixed form, and supplemental substantially non-resilient loosely retained parts carried by said ring and said retaining means, external to said diaphragm, for preventing distortion of the latter.

1,942,156
GLOBE HOLDER
Ira G. Webb, Binghamton, N. Y.
Application December 14, 1932
Serial No. 647,168
3 Claims. (Cl. 240—135)



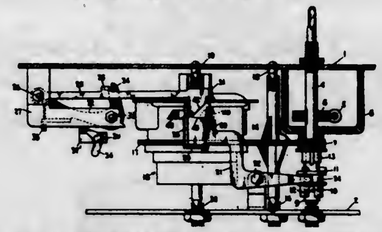
1. In a globe holder for light globes, a circular base mounted in any convenient manner on the top of a light standard, said base having on the rear side a projecting lug and on the front side a projecting lug, two circular arm segments, the rear ends of which are pivotally mounted on a bolt mounted in the rear lug projection, necks on the front ends of said segments terminating in heads having jaws, a bolt pivotally mounted in one jaw and passing through the opposite jaw member, a nut on the bolt, and a cross bar horizontally mounted on a bolt projecting between the front ends of said segments from said front lug projection.

1,942,157
TESTING APPARATUS FOR TRAIN CONTROL DEVICES
Harmon Wickson, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application September 4, 1930. Serial No. 479,714
4 Claims. (Cl. 175—183)



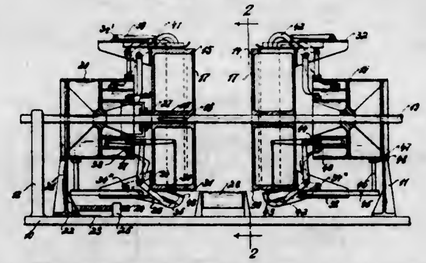
1. Test apparatus of the type described for testing an inductive device having two coils linking a single core comprising, a casing having two pairs of lead-out wires one pair for each of said coils, a source of alternating current, a voltmeter in said casing, an ammeter in said casing, and switches and circuits effective when one coil is connected to one pair of lead-out wires and the other coil is connected to the other pair of lead-out wires for either connecting said coils in series with each other and with said ammeter or for connecting one of said coils across said source of alternating current and connecting said other coil across said voltmeter.

1,942,158
CLUTCH OPERATING MECHANISM
Arthur B. Winchell, Jackson, Mich., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Original application September 28, 1931, Serial No. 565,468. Divided and this application April 21, 1932. Serial No. 606,549
15 Claims. (Cl. 192—117)



1. In clutch mechanism, a driving member, a driven member, a clutch between said members, means operated by one of said members to store up energy to operate said clutch, additional means operated by one of said members to prevent the desired movement of the clutch while said energy is being stored and permit the operation of said clutch only at a predetermined time in the movement of one of said members.

1,942,159
BAG FOLDING MACHINE
Arno Andreas, Munster, Germany
Application August 14, 1930, Serial No. 475,300, and in Germany August 12, 1929
18 Claims. (Cl. 93—28)



1. The combination with a rotary bag carrier structure and a drum structure axially associated therewith and provided with cam grooves, of gripping mechanism and folding mechanism on the carrier structure having parts engaging said grooves so as to be operated thereby on the rotation of the carrier structure, said gripping mechanism operating to hold the bag to the carrier structure, and said folding mechanism operating to fold over portions of the bag so as to produce a crossed end thereon.

1,942,160
PROCESS FOR RECOVERING ALKALOIDS FROM COCOA PRODUCTS
Jules Bebie, St. Louis, John W. Livingston, Kirkwood, and Max Luthy, St. Louis, Mo., assignors, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application September 23, 1927
Serial No. 221,613
9 Claims. (Cl. 87—28)

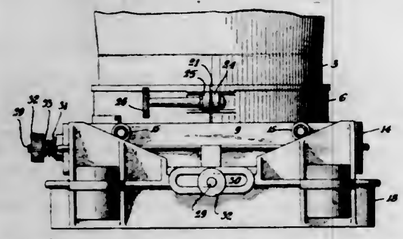
1. The process for recovering alkaloids from cocoa products which consists in simultaneously liberating the alkaloids and rendering the cocoa

product more readily filterable by treating said cake at an elevated temperature with an aqueous acid solution while maintained near the boiling point, neutralizing the acid, extracting the alkaloids by means of an aqueous medium at a temperature near the boiling point thereof and finally separating the suspended matter from the aqueous medium.

1,942,161
CAMERA MOUNT

William A. Black, Montclair, N. J., assignor to Fairchild Aerial Camera Corporation, Woodside, Long Island, N. Y., a corporation of New York

Application July 18, 1933. Serial No. 680,915
20 Claims. (Cl. 95—12.5)



1. In a camera mount for the reception of the lower portion of said camera as a means of attachment thereto, said mount comprising a unit including stationary and movable members adapting said camera to be angularly adjusted about its own vertical axis with respect to said unit and about a plurality of transverse axes with respect to said stationary members, either simultaneously or as independent adjustments.

1,942,162
HEAT INSULATION

Charles H. Campbell, Kent, Ohio

Application February 24, 1933. Serial No. 658,373
8 Claims. (Cl. 154—44)



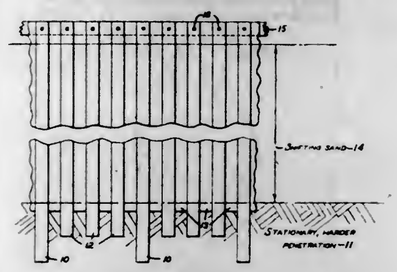
1. Heat insulation comprising a pliable core of convection-current resisting material of low heat conductivity which is substantially free of moisture and a pliable envelope entirely enclosing and sealing the same, said pliable envelope being of material which is flexible, wear and strain resisting and substantially proof against moisture and air or gas under atmospheric conditions.

1,942,163
BULKHEAD AND SEA-WALL STRUCTURE

Mario di Zoppola, New York, N. Y., assignor to Mario di Zoppola & Company Inc., New York, N. Y., a corporation of New York

Application March 24, 1933. Serial No. 662,437
6 Claims. (Cl. 61—39)

1. A wall for preventing shifting of shore sands and soils comprising a plurality of sheet piling of the laterally interlocking type assembled in side by side relation in units comprising a long anchoring element penetrating comparatively deeply in non-shifting material, a plurality of elements of intermediate length penetrating said non-shifting material and a plurality of short

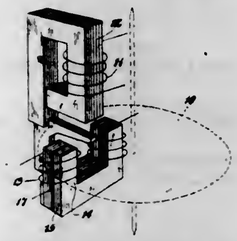


elements penetrating the surface of said material and adapted to prevent shifting.

1,942,164
INDUCTION METER

Hans Fröhlich, Theodor Hausch, and Werner Zingg, Zug, Switzerland, assignors to Landis & Gyr, A.-G., Zug, Switzerland, a corporation of Switzerland

Application August 1, 1930, Serial No. 472,317, and in Switzerland August 24, 1929
2 Claims. (Cl. 171—264)

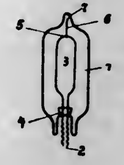


1. An induction meter including in combination a meter disc and driving means therefor including voltage and current coils and a laminated core in which at least a portion of the laminæ are formed of electrolytic iron having a high initial permeability.

1,942,165
PHOTO-ELECTRIC TUBE

Heinrich H. Geffcken and Hans R. Richter, Leipzig, Germany

Application July 29, 1929, Serial No. 381,727, and in Germany August 6, 1928
4 Claims. (Cl. 250—27.5)

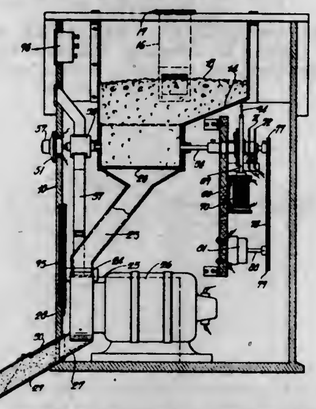


1. A photo-electric tube having a cathode and a looped anode supported at one end, and means supporting said anode at a second point within the tube and directly on the wall of the tube, the point of said second support being located opposite said first support.

1,942,166
DISPENSING MACHINE

Isidor I. Gisser, New York, N. Y.

Application December 10, 1931
Serial No. 580,194
6 Claims. (Cl. 83—18)

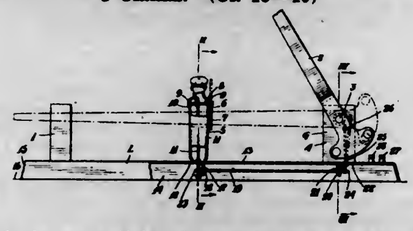


1. In a vending machine, a hopper having a discharge outlet, a measuring cylinder rotatably mounted in said discharge outlet and normally in communication with the hopper, electrically operated actuating means for rotating said measuring cylinder, an electric circuit for said actuating means, switch means normally locked and adapted to be unlocked for operatively controlling the electrically operated actuating means, coin operated means for unlocking said switch means for rendering the same operable, an automatic stop means for disconnecting the actuating means circuit.

1,942,167
ORNAMENTAL DEVICE FOR USE IN ASSOCIATION WITH TOY ELECTRIC RAILWAYS

Levin G. Handy, Mountain View, N. J.

Application May 28, 1932. Serial No. 614,074
3 Claims. (Cl. 46—40)

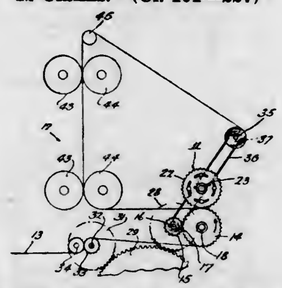


1. As an article of manufacture, a platform member, a crossing gate mounted upon the platform member having a part adapted to swing into and out of guarding position extending along said platform member, a signal device also mounted upon the platform member having a part movable into and out of danger position, the platform member having an upper wall and being shaped to provide a hollow compartment beneath said upper wall, portions of said upper wall being pressed outwardly therefrom to form openings through said wall and to provide bearings within said compartment, a crank shaft oscillatably mounted in said bearings, and connections extending through one of said openings between one end of said crank shaft and the movable part of the signal device and extending through the other opening between the opposite end of the crank shaft and the mentioned part of the gate whereby to insure movement of the mentioned part of the signal device in response to movement of the mentioned part of the gate.

1,942,168
APPARATUS FOR PRODUCING PERFORATED PAPER

John F. Hawley, Oak Park, Ill., assignor to Central Waxed Paper Co., Chicago, Ill., a corporation of Illinois

Application November 27, 1929
Serial No. 410,965
12 Claims. (Cl. 101—227)

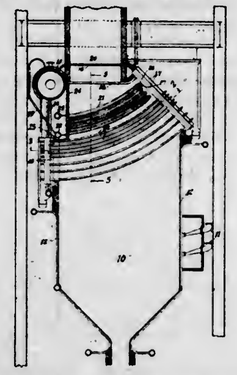


4. A combination of a printing press having a plurality of printing rolls through which a continuous web of paper is adapted to be passed for the printing of labels upon package wrappers and the like, and a punching mechanism comprising a die carrying cylinder and a die base cylinder associated with said printing press for punching shearing indicia in said web, and means actuating said punching mechanism in timed relation with the movement of said printing rolls.

1,942,169
BOILER

Frank E. Hutton, Pittsburgh, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey

Application September 3, 1932. Serial No. 631,646
12 Claims. (Cl. 122—265)



1. Fluid heating apparatus comprising spaced groups of straight headers, the headers in each group being correspondingly staggered and spaced apart a distance equal to at least a tube diameter and aligned with the headers in the other group, a bank of fluid conduit tubes con-

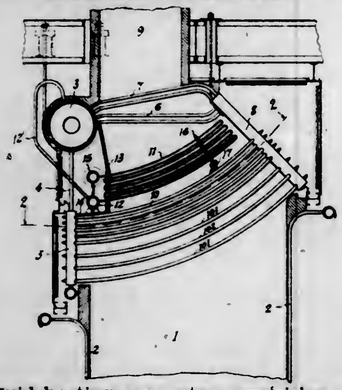
necting said groups of headers in a plurality of side-by-side sections, each section including a header at each end of said bank and tubes spaced longitudinally of said headers, said tubes being arranged in rows across the width of said apparatus, and each of said tubes having laterally bent end portions and being arranged for removal through an interheader space.

1,942,170

FLUID HEATING APPARATUS

David S. Jacobus, Montclair, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey

Application July 30, 1932. Serial No. 626,704
15 Claims. (Cl. 122—265)



1. Fluid heating apparatus comprising spaced rows of straight headers, the longitudinal axes of the headers in each row being disposed substantially in a single plane and the headers in each row being spaced apart a distance equal to at least a tube diameter and offset with respect to the headers in the other row, a bank of fluid conduit tubes connecting said rows of headers, said tubes being arranged in rows extending longitudinally of said headers, all of the tubes in each row being spaced apart substantially uniformly for a major portion of their lengths, and each of said tubes having bent end portions and being arranged for removal through an interheader space at one end thereof.

1,942,171

SEPARABLE SNAP FASTENER SOCKET

Edmund D. Janes, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application February 6, 1932. Serial No. 591,433
8 Claims. (Cl. 24—208)



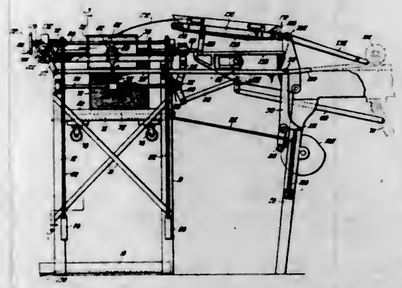
1. A snap fastener socket adapted to be driven endwise into an opening in a structural element in which it is to be mounted, said socket having a stud-receiving orifice and stud-engaging means at its leading end and integral, rigid, preformed anchoring means extending outwardly beyond its external surface which is otherwise of a substantially uniform external, cross-sectional shape and size from end to end, the leading portion of the anchoring means being positioned intermediate the ends of the socket and directed towards its stud-receiving end and being of such form and strength as to adapt the anchoring means to be driven into and embedded in the material surrounding the socket as the socket is driven into the structural element with its stud-receiving end leading.

1,942,172

PILE-FORMING AND DELIVERY MEANS

Selvar G. Johnson, Chicago, Ill.

Application July 21, 1930. Serial No. 469,600
2 Claims. (Cl. 271—88)



1. A pile receiving and delivery mechanism comprising a frame made up of four upright angles all opening inwardly and braces between said uprights, a wheeled delivery truck having a flat top table, elevator clips for engaging the under-sides of opposite edges of said table and lifting it to the top of said frame, chain and sprocket means for operating said elevator clips, counterweights for said chain and sprocket means, a reversible transmission for actuating said chain and sprocket means manually at relatively high speed, an irreversible transmission for actuating said chain and sprocket means, connections for driving said irreversible transmission by hand or by power at any one of a plurality of predetermined relatively low speeds to lower said clips, manual means for connecting said chain and sprocket means selectively to said high speed or said low speed transmissions, said wheeled truck being guided in its vertical movement by the angles of said frame, two of said angles having their legs notched near the bottom to clear the edges of said table and permit exit of said truck, the space between said notched legs being free and unobstructed to permit exit of the pile carried by said truck, certain of the bottom braces of said frame forming tracks for said truck, said tracks having downwardly inclined end portions for easing said truck onto a level floor supporting said frame.

1,942,173

METHOD OF TREATING STEEL

Clarence I. Justheim, Salt Lake City, Utah

No Drawing. Application May 31, 1932
Serial No. 614,630
3 Claims. (Cl. 75—27)

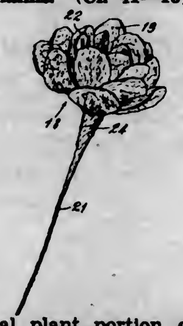
2. In a process for making steel the steps of melting a steel producing charge in the presence of a siliceous slag, removing the slag, and placing upon the metal a carbonaceous shale ranging from 40 to 70 percent silica and heating the same to form a second clearing slag and to precipitate nascent silicon into the steel and then deoxidizing the melt.

1,942,174

MATERIAL FOR MAKING DECORATIVE DEVICES SUCH AS ARTIFICIAL FLOWERS, ETC., AND METHOD OF MAKING SUCH MATERIAL

Max Kaplan, Brooklyn, N. Y.

Application December 31, 1930
Serial No. 505,692
6 Claims. (Cl. 41—13)



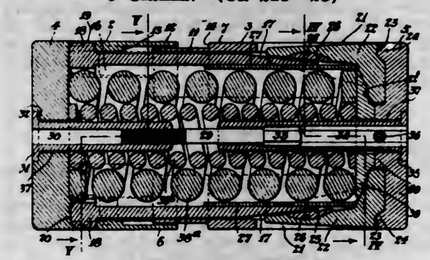
1. An artificial plant portion comprising a plurality of sheets of crinkled cellophane glued together and a stem portion interposed between said sheets, said sheets being die pressed to the shape of said portion.

1,942,175

SHOCK ABSORBING MECHANISM

Harry T. Krakau, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio

Application August 22, 1928. Serial No. 301,322
6 Claims. (Cl. 213—28)



6. A shock absorbing mechanism comprising a pair of oppositely movable casings, a compression spring arranged therebetween, frictional members longitudinally movable with the casings, certain of said members being normally out of frictional engagement but being frictionally engaged upon relative movement of said casings, said certain members having cooperating friction faces at an angle to the direction of movement of the casings and said spring cooperating with one of said members to produce a transverse pressure between said members to increase the frictional resistance thereof.

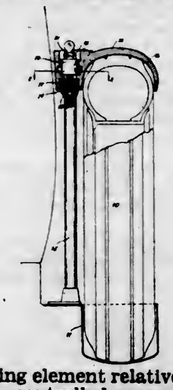
1,942,176

LOCK

Charles B. Lowe, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn.

Application March 19, 1930. Serial No. 437,051
2 Claims. (Cl. 70—90)

1. In a locking device of the class described, a fixed standard, a tire securing element adapted to be secured relatively to said standard, and a socket on said tire securing member cooperative with complementary end of said standard for maintaining said tire securing element against rotary movement relatively to said standard, a screw threaded bore in said standard, a screw threaded bolt positioned in said securing element and adapted to be screwed into said bore to secure



said tire securing element relatively to said standard, and key controlled means carried as an integral portion of said bolt and adapted to lock said bolt positively against substantial rotary movement relatively to said element.

1,942,177

PROCESS FOR RECOVERING ALKALOIDS FROM COCOA PRODUCTS

Max Luthy, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application April 21, 1930, Serial No. 446,184, and in Great Britain November 7, 1929
7 Claims. (Cl. 87—28)

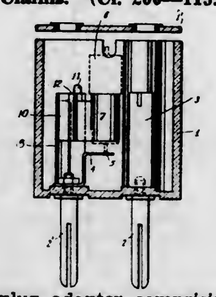
1. In a process for refining theobromine obtained by the extraction thereof from cocoa waste products, the steps which include forming an aqueous solution of an alkaline earth metal salt of theobromine, thereafter converting said salt into the alkali metal salt by means of alkali metal carbonate, filtering the precipitated metal carbonate and liberating the purified theobromine from the filtrate by acidifying with sulphur dioxide containing acidifying agent.

1,942,178

FUSE PLUG ADAPTER

Adolf Machenheimer, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

Application May 15, 1930, Serial No. 452,542, and in Germany September 21, 1929
4 Claims. (Cl. 200—115.5)



4. A fuse plug adapter comprising a pair of prongs externally mounted on the base of a cylindrical insulating casing, said casing having apertures for retaining said prongs, one of said

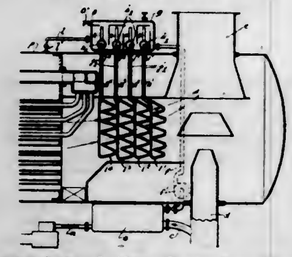
prongs connected to a socket member retained within the casing for connection with an external conductor, the other prong having a connection strip within the casing for connecting to a removable fuse, a clip coiled at both ends and retained on a support within said casing, one end of said coiled end adapted to retain and make the other contact with said removable fuse, the said fuse also connecting with said contact spring, the other end of said clip which is coiled at both ends, being adapted to connect to another external conductor.

1,942,179
FEED WATER HEATER

Auguste Magis and André Huet, Paris, France, assignors to The Superheater Company, New York, N. Y.

Application November 15, 1928, Serial No. 319,584, and in France May 14, 1928

1 Claim. (Cl. 257—241)

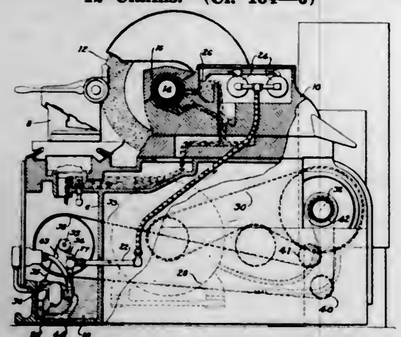


In apparatus of the class described, a feed water heater of the closed type receiving feed water containing oil and having a feed water drum enclosing heat delivering members, means for heating said members, and a baffle system in said drum having means arranged to direct the flow of feed water in a serpentine course over said heating members, said baffle system having substantially horizontal sections beneath which the feed water flows and which have small apertures opening to the upper portion of the drum, means whereby the water level in said drum may be maintained at a desired height, and means providing an outlet for oily water from said drum at a level above that of said sections.

1,942,180
LUBRICATING SYSTEM

Harold E. Martin, North Providence, R. I., assignor to Brown & Sharpe Manufacturing Company, a corporation of Rhode Island

Application December 27, 1929
Serial No. 416,801
12 Claims. (Cl. 184—6)

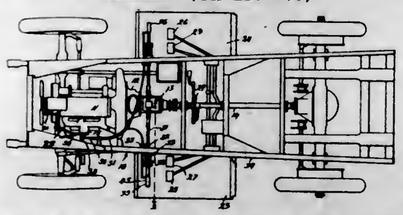


1. A lubricating system for a machine having, in combination, a bearing lubricated by said lubricating system, a pressure oil feed for the machine, and means for detecting a failure of oil in the bearing to prevent injury thereto while the machine is in operation comprising a device responsive to variations in oil pressure connected to said feed, and means controlled by said device for stopping the machine when the oil pressure varies beyond predetermined maximum and minimum limits.

1,942,181
MECHANISM FOR CONTROLLING DELIVERY VEHICLES

Edwin R. Maurer, Detroit, and Donald M. Ferguson, Highland Park, Mich., assignors, by mesne assignments, to Continental-Divco Company, Detroit, Mich., a corporation of Michigan

Application August 1, 1929. Serial No. 382,813
7 Claims. (Cl. 180—77)

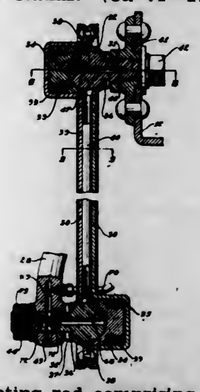


1. In a motor vehicle, a chassis, a throttle controlled internal combustion engine, a change speed transmission, a rockable lever mounted in an offset position with respect to said transmission, a connection between said lever and said transmission capable of rotative and longitudinal movements, a handle mounted on and movable relative to said lever and a Bowden wire connection between said handle and the throttle of said engine, said Bowden wire connection having the flexible conduit thereof fixedly mounted on said first connection, said handle having a hand gripping portion thereof projecting laterally from said lever.

1,942,182
MOTOR VEHICLE

Alfred Moorhouse, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Original application November 28, 1927, Serial No. 236,047. Divided and this application January 30, 1929. Serial No. 336,145
4 Claims. (Cl. 74—17)



2. A connecting rod comprising two identical stampings each formed of a body portion, a spherical seat portion at one end of the body portion and a depressed portion forming a recess, said seat and depressed portions being of different configuration, all three of said portions being integral, said stampings being arranged with the seat portion of each stamping opposite the recess of the other to accommodate bearing members, and means for securing the stampings together.

1,942,183
DIAPHRAGM FOR ELECTROLYTIC CELLS

Helmuth Müller, Burghausen, Germany, assignor to Dr. Alexander Wacker Gesellschaft für Elektro-Chemische Industrie, G. m. b. H., Munich, Germany

No Drawing. Application June 7, 1928, Serial No. 283,737, and in Austria February 15, 1928

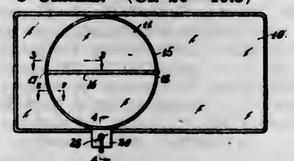
4 Claims. (Cl. 204—28)

1. A diaphragm for an electrolytic cell comprising finely divided barium sulphate, and a binder of organic glutinous character.

1,942,184
WINDOW SHIELD WIPER

Albert Pisacano, New York, N. Y.

Application September 14, 1932
Serial No. 633,045
5 Claims. (Cl. 20—40.5)

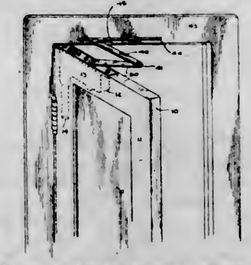


1. In a device of the class described, comprising a movable windshield section, and means for moving said windshield section comprising a casing, a stud extending through said casing at right angles to said movable section, a gear upon said stud adapted to assume a position with its teeth in mesh when teeth upon the movable section or a position out of mesh and having a tubular hub extending to the exterior of the casing, resilient means acting against said gear for urging it into the latter mentioned position, a resilient catch normally engaging the teeth of said movable section and automatically displaced by said gear upon the gear being moved into its meshed position, a handle upon said hub, and limit nuts upon said stud acting against the edge of said hub.

1,942,185
DOOR CLOSER

Paul C. Richter, Stamford, and Robert S. Potter, Greenwich, Conn., assignors to The Yale & Towne Manufacturing Company, Stamford, Conn.

Application July 1, 1930. Serial No. 465,180
7 Claims. (Cl. 16—69)

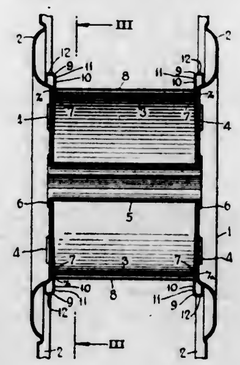


1. In a door closer, a vertical shaft, a sleeve rotatable about said shaft, a spring mounted around the sleeve and secured at one end to said sleeve and at its other end to said shaft, said shaft being fixed against movement relatively to said door closer, and means for rotating said sleeve relatively to said shaft whereby said spring is wound.

1,942,186
MOTION PICTURE REEL

Oscar A. Ross, New York, N. Y.

Application April 25, 1930. Serial No. 447,192
22 Claims. (Cl. 242—74)

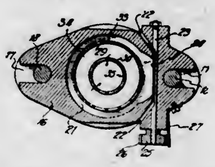


9. A sheet metal film clamping member for motion picture reels comprising, a reenforced annular outer portion having a film clamping surface formed on one face thereof, and a plurality of circumferentially spaced resilient portions integrally joined thereto, the resilient portions extending radially inwardly of the opening in the annular portion.

1,942,187
FUEL VAPOR AND AIR MIXER

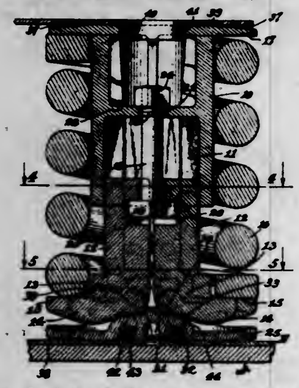
Peter Ruffino, Brooklyn, N. Y.

Application November 15, 1932
Serial No. 642,726
2 Claims. (Cl. 48—180)



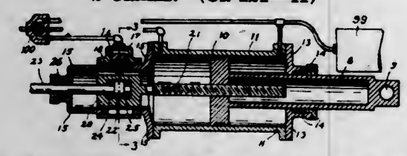
2. A fuel vapor and air mixer for intake manifolds comprising a plate interposed in the manifold and having a central opening, the walls of said opening having an annular groove therein, a cylindrical body comprising inner and outer walls, spaced at their lower edges and merging at their upper edges, said inner wall being perforated and said outer wall being snugly fitted in said opening and having an annular row of perforations communicating with said groove, a plurality of air inlets supplying air to the groove, and a valve for the inlets comprising a revolvable member operable outwardly of the plate, said member having a longitudinal channel therein to provide a continuous air passage between the inlets and the groove upon a predetermined positioning of the member.

1,942,188
STABILIZER FOR CAR TRUCKS
Ernest H. Schmidt, Cleveland Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application December 11, 1931
Serial No. 580,254
6 Claims. (Cl. 267—9)



1. In a device of the character described, a housing, a plurality of rockers having arms adapted to extend within the housing and frictionally engage the same, and arms extending generally at right angles to the first-named arms, a coil spring surrounding said housing and cooperating with the housing and second-named arms, and a plate for engaging the rockers between the ends of arms, the interengaging portions of said rocker and plate being formed to provide a universal joint.

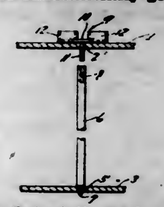
1,942,189
MECHANISM FOR CONTROLLING ENGINE VALVE MECHANISMS
Ralph H. Shepard, Bronxville, N. Y.
Application September 12, 1929
Serial No. 392,106
2 Claims. (Cl. 121—41)



1. In combination with a cylinder and piston therein, power delivering mechanism including a screw of irreversible pitch threaded into the piston, means for rotating the screw and means for transmitting its longitudinal movement to a control valve, said screw-rotating means including a screw of reversible pitch also threaded into the piston and means for transmitting rotation from one screw to the other.

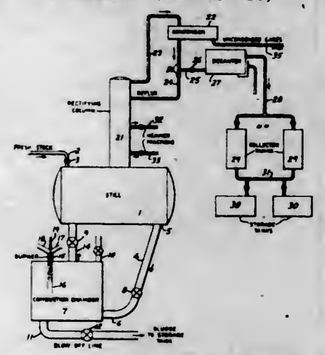
1,942,190
SERVING TRAY
Thirsa G. Smullin, Honcut, Calif.
Application August 27, 1932. Serial No. 630,644
2 Claims. (Cl. 45—117)

1. In a device of the kind described, a flat tray having a central mounting aperture, a standard tapped axially into its upper end, and a unitary connecting device for rigidly securing the tray to the upper end of the standard, the said connecting device comprising a screw for insertion through the mounting aperture of the tray into the tapped end of the standard, and a laterally extended head of substantially greater than ordi-



nary width and flat at its under side for contact with the upper face of the tray, whereby when turned down firmly to place, the top is rigidly supported upon the standard, there being marginal sockets for service dishes provided at the upper face of the head.

1,942,191
PROCESS FOR THE HEAT TREATMENT OF LIQUIDS
Frank W. Steere, Scarsdale, N. Y., assignor, by direct and mesne assignments, of one-half to Semet-Solvay Engineering Corporation, New York, N. Y., a corporation of New York, and one-half to Air Reduction Company, Inc., New York, N. Y., a corporation of New York
Application May 23, 1929. Serial No. 365,301
5 Claims. (Cl. 196—67)

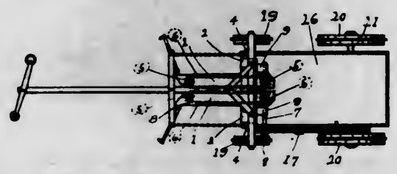


5. The process for distilling and cracking of oils which comprises cyclically circulating said oils to form a continuous stream, subjecting said stream to direct contact with the hot gaseous products of a reaction between oxygen, steam and combustible carbonaceous material, passing the resultant gas and vapors through a rectifying column to condense heavy hydrocarbons, and passing the gas and the remaining vapors from the column through a condenser to separate light liquid hydrocarbons and water from the incondensable gases.

1,942,192
COTTON HARVESTER
Enoch Garnet Stone, Piedmont, Okla.
Application March 7, 1927. Serial No. 173,449
5 Claims. (Cl. 56—33)

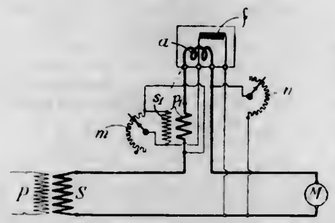
1. In a device, of the class described for harvesting cotton, a vehicle having a bed with sides and adapted to be drawn, and having driving wheels adapted for traction on the ground, a sprocket wheel attached to one of said wheels,

a tongue having guiding wheels attached thereto, said vehicle having a cross-bar mounted between the front ends of the body sides, said bar supporting a pair of parallel inclined spaced apart arm members, extension lugs on said cross-bar, a shaft supported on said extension lugs and supporting a second sprocket wheel alined with said first sprocket wheel, said body forming a receptacle for receiving harvested cotton, said shaft extending through the wall of said receptacle, and having driving gears centrally thereon, bevel gears meshing with said driving gears having integral sprocket wheels thereon paralleling the faces of said inclined parallel



arm members, sprocket chains operating on said last named sprocket wheels having spikes thereon operable upwardly adjacent the inner edges of said arm members, and projecting towards each other into the space between said arm members for combing and stripping the bolls and cotton and conveying them to said receptacle, means for adjusting the incline of said arm members, guard members for protecting said chains and spikes on their downward movement from the plants and for removing the bolls and cotton from said chains and spikes, a sprocket chain operating said first and second sprocket wheels in connection with an idler.

1,942,193
ELECTRIC ENERGY INDICATING INSTRUMENT
Oscar Szilas and Nicholas Székely, Budapest, Hungary
Application November 30, 1931, Serial No. 578,226, and in Hungary December 5, 1930
3 Claims. (Cl. 171—264)



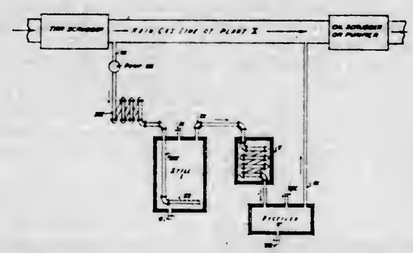
3. In an apparatus for measuring alternating current energy in such a manner as to take account of such energy losses as depend on the load, the combination of a current coil, a potential coil, and a merely ohmic resistance connected in the circuit of said potential coil and supplied with a current proportional to that in the current coil and adapted to introduce into said potential coil an additional electromotive force capable of producing in conjunction with the current in said current coil a torque corresponding to the losses to be taken account of.

1,942,194
BEARING
August Gunnar Ferdinand Wallgren, Stockholm, Sweden, assignor to Aktiebolaget Nomy, Stockholm, Sweden, a corporation of Sweden
Application April 16, 1931, Serial No. 530,563, and in Sweden April 22, 1930
8 Claims. (Cl. 308—36)



1. A combined axial thrust and radial bearing comprising radially spaced inner and outer bearing members and two axially offset rows of tiltably mounted bearing blocks having operative positions radially between said members, one of said members and said blocks having bearing surfaces cooperating on rotation to form therebetween wedge-shaped spaces for load sustaining oil films, the major portion of the bearing surfaces on the blocks in one of said rows being positioned obliquely to the axis of rotation in one sense to resist axial thrust on the bearing in one direction and the major portion of the bearing surfaces on the blocks in the other of said rows being positioned obliquely to the axis of rotation in opposite sense to resist axial thrust on the bearing in the opposite direction.

1,942,195
METHOD OF DISTILLATION OF TAR
John Morris Weiss, New York, N. Y., assignor, by mesne assignments, to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application September 30, 1926, Serial No. 138,582
Renewed November 8, 1930
3 Claims. (Cl. 196—76)

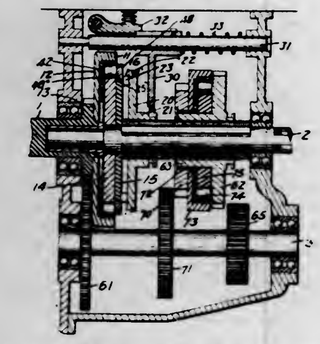


1. The process of distilling tar with the aid of fuel gases, which comprises diverting part of a main stream of fuel gases, passing the gases so diverted through hot tar contained in a still to promote distillation of the tar, cooling the resulting gases and vapors to condense oils therefrom, and returning the gases and uncondensed tar vapors thus cooled to the main stream of the fuel gases subsequent to the point from which the gases were diverted.

1,942,196
TREATING CLAY FOR TRANSPORTATION AND HANDLING
William S. Wilson, Boston, Mass., assignor to Merrimac Chemical Company, Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application February 21, 1930
Serial No. 430,455
5 Claims. (Cl. 25—156)

1. The process of treating clay for transportation which consists in forming it while wet into short cylindrical shapes and drying the latter without decrepitation thereafter transporting the clay in the dried condition and subsequently rendering the product plastic with the addition of water.

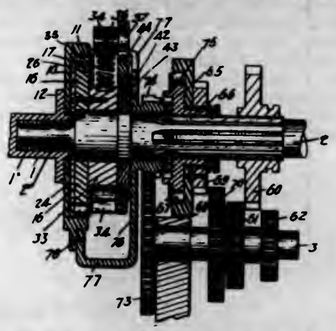
1,942,197
REVERSIBLE FREEWHEEL CLUTCH TRANSMISSION
Gibbs Blackstock, Toronto, Ontario, Canada
Application July 9, 1931. Serial No. 549,747
7 Claims. (Cl. 192—44)



7. In a reversible free-wheel clutch device, the combination with two main parts and a floating torque member having an arc of limited rotation with respect to an adjacent main part between a first and a second position, of a locking device adapted to lock the floating member alternately in either of the said positions, reversible free-wheel clutch parts between the floating member and the other main part adapted to assume alternately a first condition to transmit torque only in a first direction and a second condition to transmit it only in a second direction, mechanism controlled by motion of the floating member across the said arc adapted to set the clutch parts in the first condition as it moves to the first position and in the second condition as it moves to the second position, and means for actuating the locking device to unlock the floating member from either of the said positions to allow relative motion of the two main parts to carry it freely to the other position.

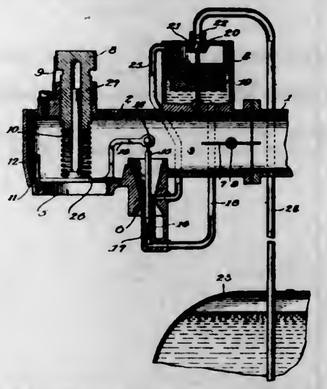
1,942,198
AUTOMATIC ROLLER CLUTCH TRANSMISSION
Gibbs Blackstock, Toronto, Ontario, Canada
Application July 9, 1931. Serial No. 549,749
12 Claims. (Cl. 192—45)

1. In a roller clutch transmission device, the combination with main driving and driven parts, of a floating torque member connected with an adjacent one of the main parts and adapted to move through an arc with respect to the same between a driving and a release position, clutch rollers and coacting parts between the floating member and the other main part adapted to assume alternately a drive transmitting and a released condition, operating mechanism controlled by relative motion of the floating member and adjacent main part and adapted to maintain the rollers in the drive transmitting



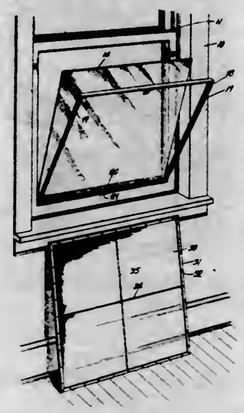
condition while the floating member is in the driving position and to release them as it moves toward the release position, means for locking the floating member in the driving position to transmit power and for unlocking it to allow the advance of the main driving part to carry it freely to the release position.

1,942,199
CARBURETOR
Robert F. Bracke, Chicago, Ill., assignor, by mesne assignments, to Lynn A. Williams, Evanston, Ill., and Clifford C. Bradbury, Glencoe, Ill., successor trustees
Application March 20, 1931. Serial No. 524,075
3 Claims. (Cl. 261—50)



1. A fuel lifting carburetor having a Venturi tube connstituting a primary air intake, a variably restricted secondary air intake, a fuel reservoir subject to fuel lifting suction, with its liquid level above the throat of the Venturi tube, a fuel passage leading from the reservoir below the fuel level to a nozzle in the throat of the Venturi tube, and a duct communicating between the reservoir above the fuel level and the Venturi tube at a point longitudinally thereof substantially opposite the fuel nozzle and a carburetor suction responsive valve in the passage for metering the fuel flow to the nozzle, said duct serving to balance the suction on the fuel level with the suction on the nozzle whereby the fuel flows only under the pressure of its head.

1,942,200
WINDOW CONSTRUCTION
Erich Brust, Brooklyn, N. Y.
Application October 28, 1931. Serial No. 571,647
1 Claim. (Cl. 20—56.4)



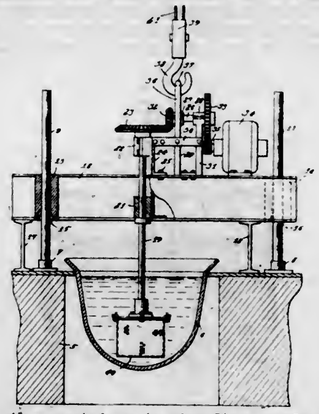
A window construction of the class described comprising in combination, a window sash, a retaining shoulder defining the opening in said sash, an element adapted to be secured against said shoulder to close the opening in said sash, and means for retaining said element in position in the sash, said retaining means comprising a frame having a recess in its bottom outer side edge, a recess in each of its side edges, a fixed projection extending from the bottom of said sash for engagement in the recess in the bottom outer side edge of said frame, and a retractable bolt carried by each side of the sash for engagement in the recesses at the sides of the frame, and means for holding said bolts in their retracted position while the closing element and the frame member are being placed in or removed from the sash.

1,942,201
PROCESS FOR THE PRODUCTION OF RESINS
Edwin L. Cline, Philadelphia, Pa., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 20, 1931
Serial No. 538,865
24 Claims. (Cl. 260—7)

1. In the process of producing resin from oils containing organic polymerizable constituents, the step which comprises treating the oil with litharge.

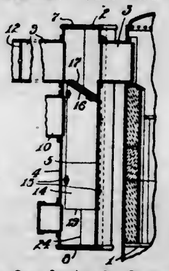
1,942,202
ROTATOR
Ralph F. Cohn, Dixon, Ill.
Application April 25, 1931. Serial No. 532,877
5 Claims. (Cl. 75—15)

1. The method of treating molten lead, out of contact with air, with a lighter metallic solid having a low rate of solution which includes placing the solid as a plurality of pieces in a container having perforations of a number, size and character for the free circulation of the molten lead through and over the solid, submerging the container in the molten metal, and rotating the container to cause the metal to wash freely



through the container to simultaneously dissolve the solid and mix the molten metal.

1,942,203
FURNACE RADIATOR
Turley J. Cornwell and John R. Strahlendorf, Indianapolis, Ind.
Application March 30, 1932. Serial No. 601,896
4 Claims. (Cl. 126—99)

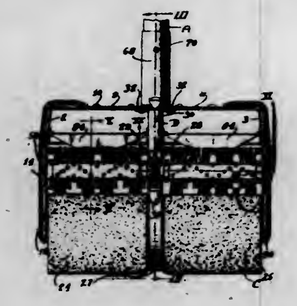


1. A radiator for hot air furnaces comprising an airtight casing including front and rear spaced apart walls, said front wall near its top having an opening connected by a smoke flue with the firepot of the furnace, said rear wall having an opening in alignment with said front wall opening and connected by a smoke flue with the chimney, vertical partitions extending between said front and back walls to divide the casing into two side and a center passageways, said vertical dividing walls at their tops ending below said openings and at their bottoms ending above the bottom of the radiator, a cover for said center passageway inclined downwardly from back to front, from a point in alignment with the bottom of the chimney smoke flue opening, and a damper for controlling the passage of products of combustion through said chimney smoke flue opening located out of the direct line of passageway of the products of combustion when the damper is closed, said center passageway having an opening in the rear wall communicating with the chimney smoke flue.

1,942,204
SELF CLEANING DUST MOP
Anatolle B. Courchene, Chicago, Ill., assignor of one-half to Homer B. Courchene, Downers Grove, Ill.
Application July 30, 1932. Serial No. 626,255
8 Claims. (Cl. 15—147)

1. A floor mop including a cylindrical rotatable mop element, cylindrical rotatable brush means

in contact with said element for cleaning said element, combing means for said brush, means for imparting relative movement to said element and brush in both directions during the clean-



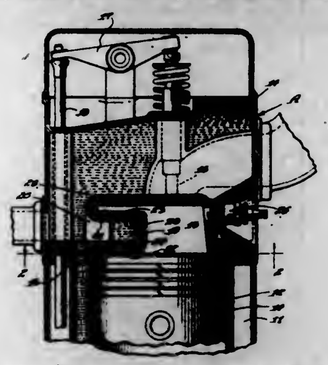
ing of the element, the combing means being effective for cleaning said brush during movement of said brush, and means operable by the brush during rotation thereof in one direction for cleaning the combing means.

1,942,205
BLACKBOARD ERASER
Anthony A. Elnett, New York, N. Y.
Application December 10, 1932
Serial No. 646,671
8 Claims. (Cl. 15—114)

1. The combination with a base, of a double layer of felt composed of two individual layers defined from one another by an incision, the individual layers being folded over onto one another with the incision disposed at the outer side of the fold, a row of wire bristles disposed between said individual layers of felt, and means for securing the inner ends of said bristles and said double layer of felt at its incision to said base.

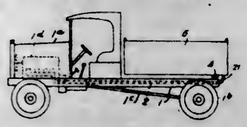
1,942,206
ENGINE
Steven F. Evelyn, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application October 10, 1931. Serial No. 568,003
21 Claims. (Cl. 123—191)

1. In an overhead valve internal combustion engine having a cylinder, a piston operable in said cylinder, a cylinder head structure for closing the open end of said cylinder and provided with a combustion chamber, valves overlying the cylinder and supported by said head for opening movement inwardly of the cylinder, said cylinder head structure having an inwardly extending jacketed shelf spaced from the top of the combustion chamber and overlying a portion of said cylinder, said shelf having clearance with that



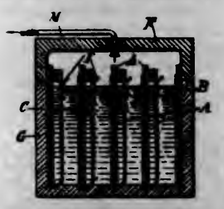
portion of the combustion chamber axially inwardly of the valves.

1,942,207
TRUCK BODY AND METHOD OF HEATING SAME
Ray Ferwerda, Maple Heights, Ohio
Application March 12, 1932. Serial No. 598,314
8 Claims. (Cl. 296—1)



1. In a self-propelled road vehicle, the combination with a chassis, of an engine stationarily mounted on said chassis for propelling the same; a material conveying body pivotally mounted on said chassis and tiltable to facilitate dumping of the material therefrom, the walls of said body formed of spaced plates providing passages therein for the circulation of a heating medium therethrough; and a conduit for circulating the heated exhaust gases from said engine through the passages in said body walls, said conduit including a flexible portion whereby tilting of said body is permitted.

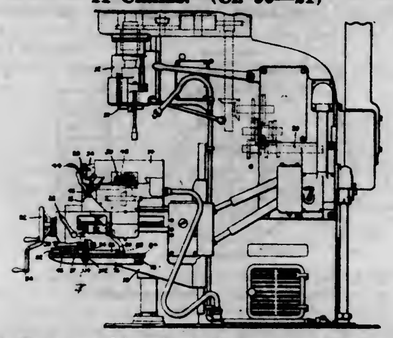
1,942,208
MEANS FOR OBTAINING LEAD IN METALLIC CONDITION
Paul Gamichon, Paris, France
Application June 12, 1931, Serial No. 543,822, and in France June 17, 1930
1 Claim. (Cl. 204—5)



An electrolytic apparatus for producing spongeous lead which comprises two poled electrodes, one of their faces acting as cathode and their other face, fitted with a diaphragm to arrest the generated gases, acting as anode, means for discharging the gases outside, means for depolariz-

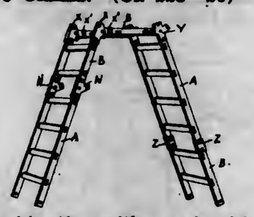
ing the electrodes and means for recovering the spongeous lead deposited on the parts of the electrodes acting as cathode.

1,942,209
MACHINE TOOL
Benjamin P. Graves, Cranston, and Arthur F. Bennett, West Barrington, R. I., assignors to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application July 6, 1932. Serial No. 621,044
11 Claims. (Cl. 90—21)



1. In a machine tool, the combination with a tool for operating upon the work, of a movable support for positioning the work with relation to the operating tool, a second support on which said first support is mounted to move, a power feed for said movable support, a hand feed for said movable support, and an attachment for positioning said movable support to locate the work with relation to the operating tool comprising two cooperating contact members mounted one on each of said supports, and a measuring device arranged to engage between and measure the distance between said contact members, said attachment being constructed and arranged when placed in operating position in the machine to lock said power feed out of operation.

1,942,210
UNIVERSAL FOLDING LADDER
Walter Harting, New York, N. Y.
Application July 28, 1932. Serial No. 625,265
3 Claims. (Cl. 228—26)



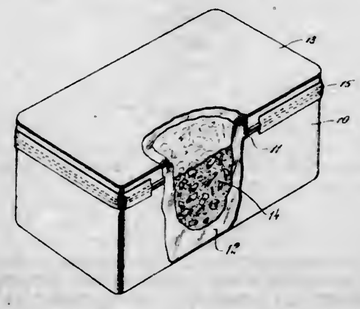
1. The combination with a pair of ladder sections having apertures in their ends, of connectors adapted to connect the ends of one ladder section to the ends of the other ladder section, each of said connectors including a base housing adapted to slide over part of the adjacent ladder section, removable pins for locking the ladder sections to said connector, each of said connectors having a branch housing, the base housing being open next to said branch housing and the branch housing being open next to the base housing, whereby one of said ladder sections may be swung over to fit into said branch housing, and means for locking the last mentioned ladder section in said branch housing.

1,942,211
COMBINATION GUARD AND HEAT TRANSFER DEVICE
Charles W. Hartwig, Hastings-on-Hudson, N. Y.
Application April 20, 1933. Serial No. 666,953
6 Claims. (Cl. 257—262)



1. A combination guard and heat transfer device adapted to be applied upon a pipe and comprising a curved inner plate for directly conforming to and engaging said pipe, and a second curved plate fitted to the first plate and having its ends interlocked therewith to form a unitary structure, said cooperating sections being of a size to snap on a pipe, said outer section having a plurality of outwardly extending folds of a uniform size, and providing longitudinal air passages and increased heat transfer surface, the outer portions of said folds being flat and forming a substantially annular guard.

1,942,212
METHOD OF MERCHANDISING PRESERVED FRUITS
Marjorie Heseltine, Jersey City, N. J., assignor to The Hills Brothers Company, New York, N. Y., a corporation of New York
Application December 17, 1932
Serial No. 647,753
5 Claims. (Cl. 206—46)



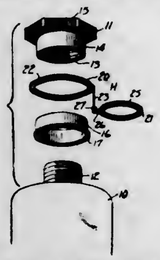
1. A merchantable unit including a shipping container having such qualities as to constitute it at the same time a baking container, said shipping container enclosing a substantial portion of solid ingredients only and in such relative proportions as are required to produce a baked cake, said ingredients also being in such quantity as to promote the conversion thereof into a cake by baking after a suitable quantity of liquid ingredients, such as eggs and milk, have been added thereto.

1,942,213
PIPE SUPPORT
James H. Howard, Houston, Tex., assignor to J. H. McEvoy & Company, Houston, Tex., a corporation
Application October 8, 1931. Serial No. 567,537
5 Claims. (Cl. 285—22)



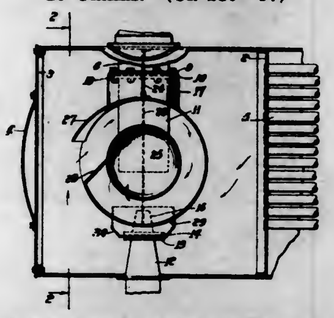
1. In a well head equipment, an outer pipe, a fitting connected at the upper end thereof, an inner concentric pipe, cylindrical couplings of uniform exterior diameter on said inner pipe, a supporting bushing threaded within the upper end of said fitting, a metal ring supported on the interior wall of said bushing upon which one of said couplings may seat, said bushing being formed to fit closely about said inner pipe and its couplings, said pipe extending above said bushing and a sealing means about said inner pipe at the upper end of said bushing, above said coupling.

1,942,214
CAPTIVE CAP
Carl B. Knudsen, Mamaroneck, N. Y., assignor to The Cap Coupler Corp., New York, N. Y., a corporation of New York
Application July 6, 1931. Serial No. 548,727
19 Claims. (Cl. 221—60)



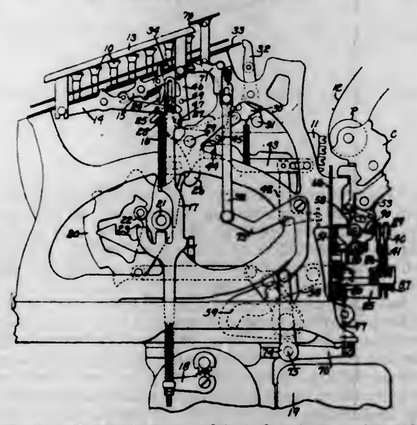
1. In combination, a tube having a threaded neck extending down to a shoulder, an internally threaded cap adapted to be threaded onto the neck of the tube and having flanges about its upper and lower ends, a stamped sheet metal ring securely held about the threaded neck adjacent the shoulder and out of engagement with the lower end of the cap when the cap is threaded tightly onto the neck of the tube, a second sheet metal ring loosely surrounding the cap and nonremovably held thereon between the flanges, a downwardly bent integral extension carried by the second ring, and an outwardly extending integral lug carried by the first ring, the extension and lug being hinged together to allow swinging the cap away from the neck of the tube, the cap being movable in the second ring sufficiently to allow threading the cap on and off the neck of the tube without interference.

1,942,215
LOCOMOTIVE FRONT END
William F. Mitchell, St. Paul, Minn., assignor to Locomotive Firebox Company, Chicago, Ill., a corporation of Delaware
Application May 14, 1932. Serial No. 611,428
16 Claims. (Cl. 230—97)



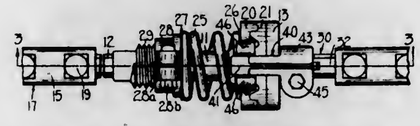
1. A locomotive front end embodying therein a smoke box defined at one end by a flue sheet, a smoke stack having a stack extension in the smoke box, an exhaust nozzle in the smoke box associated with said stack extension, means in said smoke box forming a chamber surrounding said stack extension, there being an opening provided for the admission of the products of combustion into said chamber, said parts being so formed and positioned as to cause said products of combustion to take a substantially circular path about a transversely disposed horizontal axis arranged between said flue sheet and said opening.

1,942,216
PAPER CARRIAGE EQUIPMENT FOR CALCULATING MACHINES
Robert L. Muller, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application May 4, 1931. Serial No. 534,804
19 Claims. (Cl. 235—58)



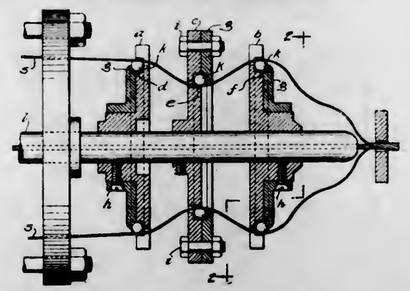
7. A calculating machine having a traveling paper carriage, a tabulating mechanism operable as an incident to each operation of the machine for controlling said carriage so that it normally moves from column to column across the machine as the latter is operated, and settable skip mechanism acting automatically after a predetermined number of operations of said machine to cause said carriage to skip a predetermined number of columns.

1,942,217
SLIP CLUTCH
Talbert W. Paul, Kansas City, Kans., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application July 20, 1932. Serial No. 623,465
10 Claims. (Cl. 64—106)



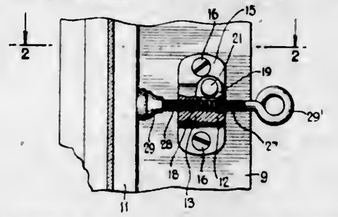
1. A slip clutch mechanism comprising driving and driven shafts, clutching mechanism on one of said shafts comprising two members having coacting serrations on their adjacent surfaces for relative engagement, one of said members being movable longitudinally with respect to said shaft, and a driving connection between the periphery of said last-named member and the other of said shafts comprising a sliding connection.

1,942,218
MECHANISM FOR MANUFACTURING TENSIONLESS LOW-TWIST WIRE ROPES
Herrmann Schmitz, Cologne-Dellbruck, Germany, assignor, by mesne assignments, to American Cable Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application August 29, 1932, Serial No. 630,803, and in Germany December 23, 1931
4 Claims. (Cl. 117—20)



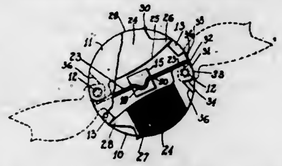
1. Mechanism mounted ahead of the stranding point and serving for the pre-bending or preforming of the rope or cable elements in the manufacture of tensionless low-twist strands or ropes in stranding machines, with this characteristic feature that balls rotatable about their own axes and placed at close contiguity to one another, said balls being supported or rested inside a ball-rim partaking of the motion of the stranding or laying machine, serve for the preforming or pre-bending of the rope or cable elements which are guided through the inner and outer gap between adjacent pairs of balls.

1,942,219
WINDOW LOCK FASTENER
Samuel Segal, New York, N. Y.
Application May 5, 1931. Serial No. 535,141
3 Claims. (Cl. 292—251)



1. A fastener adapted for use on a window comprising, a supporting member having intersecting openings, a clamping element adjustably disposed in one of the openings and normally overhanging opposed sides of said supporting member, a clutch disposed in another of said openings and comprising a terminal flanged portion, a shoulder, an intermediate attenuated part and a finger piece; resilient means forming a seat for said flanged portion for normally urging said finger piece beyond said supporting member, said element including a flat face having a marginal portion being adapted on its rotation in one direction to abut said shoulder and shift the clutch inwardly as to permit the continuance of said rotation in the same direction, said face having another marginal portion cooperating with said flanged portion to resist effective rotation of said element in another direction, the attenuated part of the clutch forming a recess with said shoulder and finger piece for receiving a circular part of the clamping element subsequent to the depression of said clutch.

1,942,220
CUTTING, FILING, AND SCRAPING IMPLEMENT
Samuel Segal, New York, N. Y.
Application February 6, 1932. Serial No. 591,319
15 Claims. (Cl. 30—10)



2. In a tool of the class described, a casing having closely spaced components one of which comprises opposed shoulders, a post adjacent each shoulder, and an intermarginal anchoring device having a tortuous channel, a spring having a portion secured in said channel and other free portions extending within proximity to a post and an associated shoulder, a blade pivoted to each post and having a plurality of cam surfaces for selectively abutting a free portion of the aforementioned spring, the other component being adapted to receive said posts and operatively held thereby against the shoulders.

1,942,221
METHOD OF MAKING PROPELLER BLADES
John Squires, Hagerstown, Md.
Application March 11, 1931. Serial No. 521,797
26 Claims. (Cl. 29—156.8)

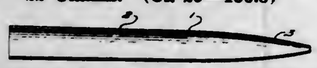
1. The method of making a tapered propeller blade which consists in bending a sheet-like piece of metal stock having a varying width longi-

tudinally into a blank of tapered tubular formation with opposite side edges of the stock in abutting relationship, closing one end of said



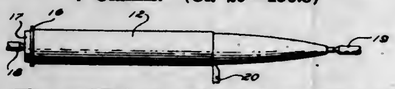
blank, and changing the cross-sectional contour of said blank to that desired in the finished product.

1,942,222
METHOD OF MAKING PROPELLER BLADES
John Squires, Hagerstown, Md.
Application March 11, 1931. Serial No. 521,798
22 Claims. (Cl. 29—156.8)



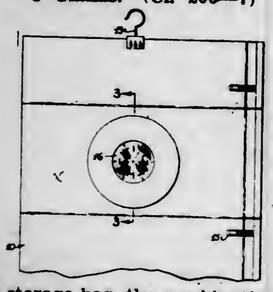
1. The method of making a propeller blade which consists in forming a planular metal blank of non-uniform width and thickness having predetermined dimensions, bending said planular blank into a tubular blank of non-uniform diameter and tapering wall thickness, with opposite side edges of the planular blank in abutting relationship, and changing the cross-sectional contour of said tubular blank to that desired in the finished product.

1,942,223
METHOD OF MAKING PROPELLER BLADES
John Squires, Hagerstown, Md.
Application March 11, 1931. Serial No. 521,799
7 Claims. (Cl. 29—156.8)



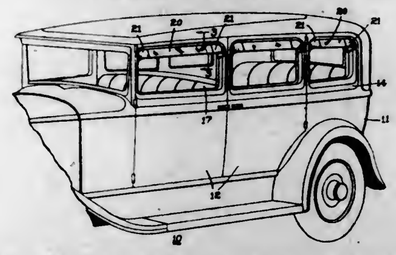
1. The method of making a propeller blade from a sheet-like piece of metal stock which consists in form'ng said stock into a hollow blank, welding the seam of said blank, contracting said blank circumferentially to tapered formation by upsetting the metal of the wall thereof to a greater thickness, modifying the wall thickness of said blank to substantially that desired in the finished product, closing one end of said blank, and modifying the cross-sectional shape of said blank between dies, with said welded seam located in a predetermined position, so as to bring the blank to the desired finished cross-sectional contour.

1,942,224
STORAGE BAG
Abraham Stone, Brooklyn, N. Y.
Application May 24, 1932. Serial No. 613,152
3 Claims. (Cl. 206—7)



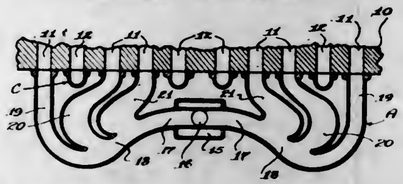
1. In a storage bag, the combination of a wall thereof having a transparent window, moth repelling ingredients contained in a pocket in alignment with said window, a transparent cover sealing said moth-repelling ingredients in said pocket, and a handle attached to said transparent cover whereby the contents of said pocket may be exposed to the atmosphere of the interior of said storage bag when said handle is actuated to displace said transparent window.

1,942,225
MOTOR VEHICLE
Milton Tibbetts, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 30, 1931
Serial No. 577,888
7 Claims. (Cl. 296—44)



1. A flexible visor structure for the windows of motor vehicles comprising similar end sections having end flanges to fit channel runways, a central section connecting the end sections, the ends of said central section lying in overlapped relation to the adjacent ends of the end sections with the outer surfaces flush, and means for securing the sections together.

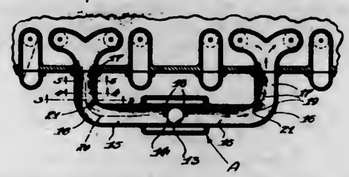
1,942,226
ENGINE
Harold H. Timian, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application April 1, 1931. Serial No. 526,842
9 Claims. (Cl. 123—52)



1. An intake manifold structure for an internal combustion engine including a plurality of branches, one of said branches being longer than another of said branches, said shorter branch having a relatively greater width than the longer branch, whereby to provide branches of substantially equal internal surface area.

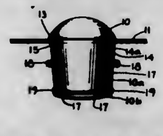
1,942,227
ENGINE
Harold H. Timian, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application June 22, 1931. Serial No. 545,873
14 Claims. (Cl. 123—52)

1. An intake manifold structure for an internal combustion engine and including substantially circular fuel mixture conducting portions positioned at an angle to each other and connected by a bend, the floor of said manifold



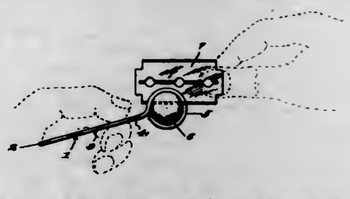
structure adjacent the inside corner of the bend being relatively flattened.

1,942,228
MEANS FOR HOLDING ARTICLES
John R. Wald, Huntingdon, Pa.
Application July 14, 1931. Serial No. 550,701
3 Claims. (Cl. 88—1)



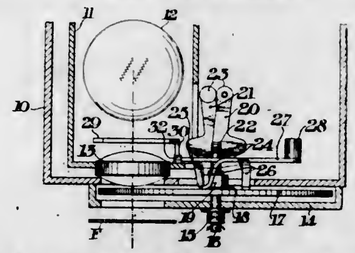
1. In combination, a tapered reflecting unit, a bead-like projection on the outer end thereof and a bead-like projection on the inner end thereof, a reflector cup removably attached over the bead-like projection and a holding member removably attached over the reflector cup and between the two projections and in such manner that the unit when positioned in the aperture of a sign plate will be held therein against movement in either direction.

1,942,229
RAZOR SHARPENING DEVICE
Admiral J. Warren, Washington, D. C., assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J.
Application February 10, 1932. Serial No. 592,105
1 Claim. (Cl. 51—204)



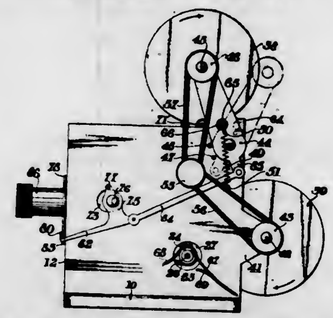
As a new article of manufacture, a razor-blade sharpening device comprising a handle bent from a single strand of resilient wire having an enlarged loop at one end and being provided with a restricted shank portion to facilitate the holding of the handle in the hand of an operator, said restricted shank portion terminating in laterally extending portions which are bent to produce substantially parallel ball-receiving eyes arranged in spaced relation and extending substantially at right-angles to said laterally extending portion, the portions of said strand constituting said eyes being circular in cross-sectional area to provide smooth bearing surfaces, and balls removably and rotatably supported within the eyes for resilient frictional contact with each other.

1,942,230
SAFETY SCREEN FOR MOTION PICTURE APPARATUS
Howard C. Wellman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application September 5, 1931. Serial No. 561,424
14 Claims. (Cl. 88—19.4)



13. A screen member for a motion picture apparatus having a rotatable disc shutter member comprising a central portion, a weighted arm extending therefrom, a grid member extending from said central portion substantially opposite said weighted arm, and a displaced portion out of the plane of said central portion and adapted frictionally to engage said disc shutter member.

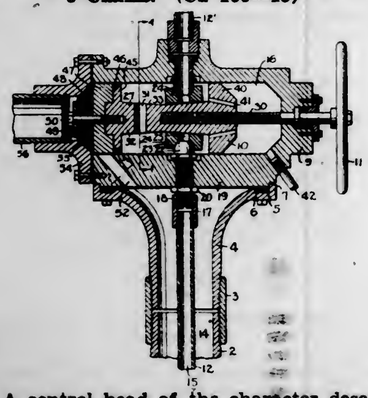
1,942,231
AUTOMATIC REVERSING MECHANISM FOR MOTION PICTURE APPARATUS
Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application March 20, 1931. Serial No. 524,051
15 Claims. (Cl. 88—16)



1. In a motion picture apparatus, the combination with a film advancing mechanism for moving a film, a prime mover actuating said film advancing mechanism and a reversing means adapted to reverse the rotational direction of said prime mover, of a film reel for a film with one end attached to said reel, and a reel supporting means movably mounted and adapted to be moved by the pull of the film when all the film has been unwound from said reel and to operate said reversing means.

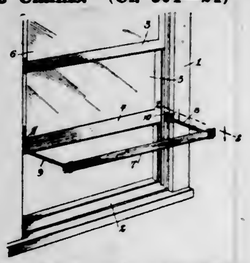
5. In a motion picture apparatus adapted to receive a film, the combination with a reel supporting means movably mounted and adapted to support a film reel, and an optical system including a pivotally mounted objective, of an interconnecting means between said optical system and said reel supporting means and adapted upon movement of the said reel supporting means to rotate the objective of said optical system.

1,942,232
COMBINATION CONTROL AND GATE VALVE
Gustave A. Alviset, Houston, Tex.
Application August 15, 1930. Serial No. 475,472
5 Claims. (Cl. 166—15)



1. A control head of the character described having tubing extending therefrom both upwardly and downwardly, a flow line connected therewith, a single gate member arranged for movement to close both strings of tubing and said flow line, and adjustable means on each of the strings of tubing to form a seal with said gate.

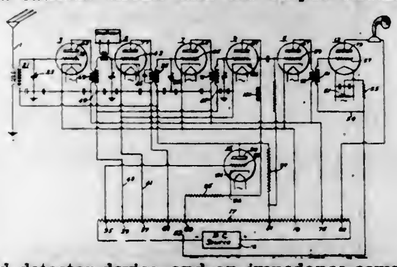
1,942,233
WINDOW BACK REST
Louis Appugliese, Jersey City, N. J.
Application February 3, 1933. Serial No. 655,095
3 Claims. (Cl. 304—24)



1. A window back rest comprising a pair of brackets, each bracket being provided with a pair of leaves offset from each other and connected by an upright section acting as a stop, means for mounting a pin on said bracket in front of said upright section, an arm for each bracket, each of said arms having a hook adapted to interlock with said pin and an abutment adapted to press against said upright section whereby the arm is held in a substantially horizontal position, a back bar, and means at the outer end of said arms for holding the back bar in position.

1,942,234
AMPLIFYING SYSTEM
George L. Beers, Merchantville, N. J., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application May 1, 1930. Serial No. 448,862
1 Claim. (Cl. 250—20)

In an amplifying system, an amplifier and a detector device each having an input and output circuit, and means for controlling the volume level of said system, said means comprising an electric discharge device having an input and an output circuit, said input circuit including a cathode circuit, an impedance common to said cathode circuit and the output circuit of



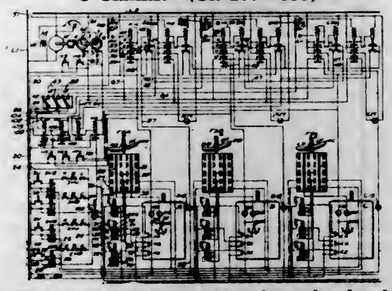
said detector device, and an impedance common to the output circuit of said electric discharge device and the input circuit of said amplifier, said second mentioned impedance being materially greater in value than said first-mentioned impedance.

1,942,235
METHOD AND RELATIVE DEVICE FOR APPLYING BRAKES TO AEROPLANE WHEELS
Aldo Boggio, Milan, Italy
Application July 7, 1933, Serial No. 679,419, and in Italy May 19, 1932
15 Claims. (Cl. 244—2)



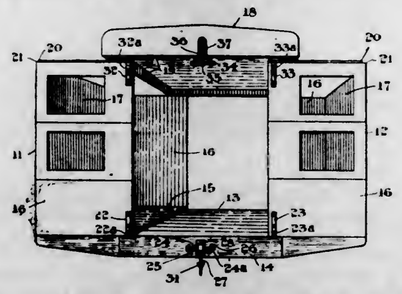
1. A braking system for an aircraft having front landing wheels and a tail wheel, brakes for the front wheels, and means actuatable by rotative movement of the tail wheel for applying said brakes.

1,942,236
ELEVATOR DISPATCHING SYSTEM
Edgar M. Bouton, Chicago, Ill., and Frank E. Lewis, East Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania
Application May 3, 1928. Serial No. 274,702
3 Claims. (Cl. 177—336)



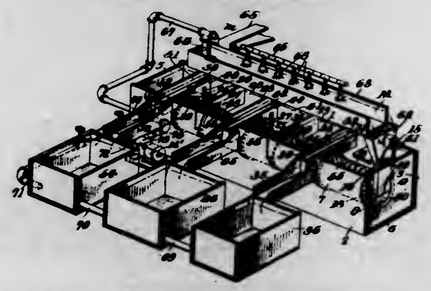
1. In a dispatching system for a bank of elevator cars, means for registering a dispatching signal indicating that a car should be prepared to start a trip from a dispatching floor, means for each of said cars for receiving said signal, means disposed outside of said cars for registering a stop signal for said cars, and means operable by failure of a car to be in position to start such a trip for preventing the reception of said stop signal by the cars closely approaching the dispatching floor until one of said cars is placed in starting position.

1,942,237
FASTENING MEANS FOR EXPANSIBLE BODIES
Carleton Brown, Westmount, Quebec, Canada
Application January 14, 1931. Serial No. 508,727
16 Claims. (Cl. 296—26)



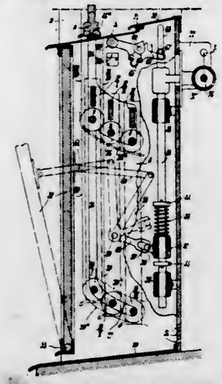
1. An expansible body comprising laterally separable body sections and a separately formed roof member adapted to close the top of the body and to be wholly supported by the body sections when the latter are brought together in the contracted state of the body, said roof member having edge portions normally fitting over the upper edges of the end and outer side walls of said body sections and being vertically displaceable to a position freeing the said body sections for lateral separation.

1,942,238
APPARATUS FOR GRADING MUSHROOMS
William E. Chambers, West Chester, Pa.
Application March 12, 1932. Serial No. 598,515
4 Claims. (Cl. 209—288)



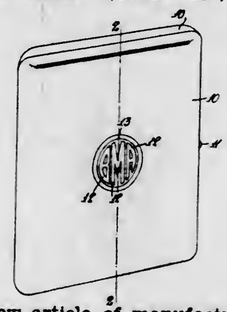
1. An apparatus for grading mushrooms comprising a tank, a grading cylinder mounted therein for rotation and having openings therethrough, said cylinder having an unobstructed opening from end to end thereof, transverse partitions therein in said tank intermediate the ends of said cylinder separating said tank into compartments, said openings in the cylinder in the region of successive compartments being of gradually increasing size toward the delivery end of the cylinder, means for conveying water and mushrooms to be graded into said cylinder, means leading from each compartment at a point above the grading cylinder for causing the water to flow from the cylinder through the openings into the compartments and from the compartments with the floating mushrooms therein into a collecting tank.

1,942,239
METAL WINDOW FRAME
Gabriel Chauvet, Paris, France
Application July 15, 1932, Serial No. 622,745, and in France August 13, 1931
2 Claims. (Cl. 20—52.1)



1. A window structure comprising a frame, a plurality of sashes, and means mounting said sashes for vertical movement in the same plane and for lateral movement into spaced parallel planes, said mounting means comprising a pair of laterally spaced track elements at each side of the frame having portions disposed in the same vertical plane and respectively having upper and lower offset portions, and upper and lower rollers at each side of each sash laterally offset with respect to each other and cooperating with the respective trackways.

1,942,240
MONOGRAM
Michael Chernow, Brooklyn, N. Y.
Application September 19, 1933
Serial No. 690,066
8 Claims. (Cl. 40—140)



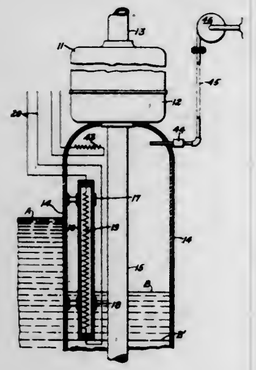
5. As a new article of manufacture a monogram etched from bright soft bendable highly polished metal in the order of .005 of an inch thick, said metal being bendable and an extremely thin coating of water-proof cement applied to the rear face of the monogram and sufficiently plastic to prevent cracking when the monogram is flexed, the edges of said monogram being slightly concave and of a darker color than the face of the monogram.

1,942,241

LIQUID LEVEL CONTROLLING MEANS

Emil Duhme, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application November 26, 1930, Serial No. 498,502, and in Germany January 27, 1930
7 Claims. (Cl. 103—25)



1. In combination with an electrically driven pump-set using a diving bell for housing the electric driving means for the pump-set, an electrically heated resistor vertically disposed in the diving bell and in heat transfer relation to the medium in the diving bell and means responsive to heat transfer changes between the resistor and the medium for controlling the liquid level in the diving bell.

1,942,242

SPARK PLUG

Patrick J. Fitzgerald, Torrington, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a corporation of Connecticut

Application April 7, 1933. Serial No. 664,987
7 Claims. (Cl. 123—169)



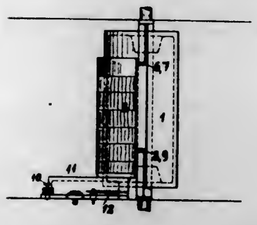
1. A spark plug having a center electrode, and a grounded electrode having an enlarged end, said enlarged end having a cross sectional area which is increased in all planes passing through the axis thereof, said grounded electrode having the small end thereof mounted in the shell and being bent inwardly to permit the enlarged end thereof to lie adjacent the center electrode.

1,942,243

PLATE DEPOSITING TABLE FOR CASTING MACHINES

Hanns Fritz, Wurzburg, Germany, assignor to firm "Schnellpressenfabrik Koenig & Bauer, Aktiengesellschaft," Wurzburg, Germany

Application May 20, 1932, Serial No. 612,542, and in Germany October 10, 1931
20 Claims. (Cl. 22—2)



1. In a casting machine for hemispherical plates having a stationary vertical casting mold, and a core traveling from the mold to a plate delivering position and back, the combination of a plate receiving table positioned to be engaged by the core and carried along thereby, and resilient means for opposing such movement of the table.

1,942,244

MECHANICAL JACK

Earl F. Green and Frank A. Graham, York, Pa., assignors to The Manley Manufacturing Company, York, Pa., a corporation of Delaware

Application September 30, 1930
Serial No. 485,497
18 Claims. (Cl. 254—2)



1. A jack comprising a frame, a lever fulcrumed on the frame, a lifting table supported by an arm of said lever, a rack bar pivoted to another arm of the lever, a support on which said bar is slidable, said support being pivoted to the frame to permit the bar to assume inclined positions, and pawls cooperating with the bar for actuating said bar step-by-step in either direction.

1,942,245

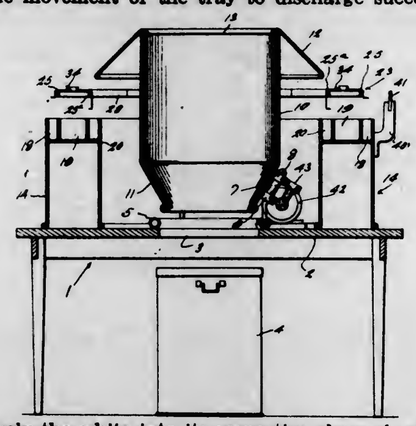
EGG SEPARATING APPARATUS

Glenn Hatcher, Tulsa, Okla., assignor of one-half to Guaranty Produce Company, Tulsa, Okla.

Application June 29, 1933. Serial No. 678,267
8 Claims. (Cl. 146—2)

1. A liquid egg separating apparatus comprising a fixed trough provided with a channel for receiving the white and yolk of an egg, a second channel for receiving the white of an egg, and a third channel for receiving the yolk of an egg, a tray mounted above the trough for movement relative thereto, and a white and yolk separating

device mounted on the tray and positionable by the movement of the tray to discharge succes-



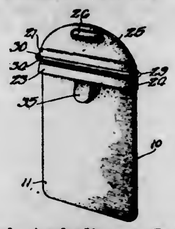
sively the white into its respective channel, and the yolk into its respective channel.

1,942,246

WATER TIGHT BAG

David Johaneson, Chicago, Ill.

Application September 3, 1930, Serial No. 479,567
Renewed June 5, 1933
6 Claims. (Cl. 150—3)



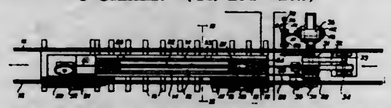
5. A receptacle including a flexible body portion having oppositely disposed sides and an open end, a pair of spaced portions on one side of the body providing abutments, a portion projecting from said body between said abutments, and a clamping device slidably mounted on, and including portions disposed on opposite sides of said projecting portion.

1,942,247

CAR HANDLING APPARATUS

George M. Johnson, Jeannette, Pa., assignor to Fort Pitt Mine Equipment Company, Jeannette, Pa., a corporation of Pennsylvania

Application February 5, 1931. Serial No. 513,525
6 Claims. (Cl. 104—172)



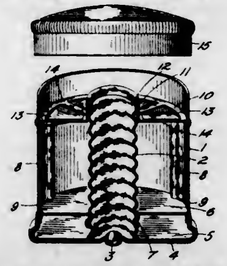
1. Car-handling apparatus comprising a winding drum, a pony truck, a cable connecting the truck to the drum, car-engaging devices carried by the truck, guide rails for the truck, and means adjacent to the forward end of the guide rails for causing movement of one of said devices carried by the truck out of its normal forward path of travel to thereby effect disengagement thereof from a car.

1,942,248

CONTAINER FOR ADHESIVE AND THE LIKE

Victor William George Kemp, Grove Park, England

Application February 19, 1931, Serial No. 517,045, and in Great Britain August 14, 1930
5 Claims. (Cl. 91—67.1)



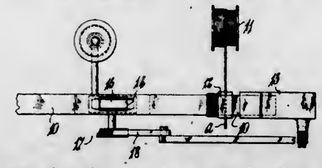
1. Paste-pot comprising a tubular inner container for the paste brush, an annular outer container for the paste, an annular apertured plate mounted in said outer container in such manner as to partition off an upper annular space, a second annular plate in said outer container, and means for moving said second plate from the bottom of the outer container towards the apertured plate, whereby paste in said outer container can be forced through the last named plate into the upper space when it can be removed by said brush.

1,942,249

APPARATUS FOR PRODUCING WIRE STAPLES IN COHERENT STRIPS

Oscar Kleinschmit, Leipzig-Plagwitz, Germany, assignor to Gebruder Brehmer, Leipzig-Plagwitz, Germany, a firm of Germany

Application October 13, 1930, Serial No. 488,459, and in Germany June 30, 1930
20 Claims. (Cl. 59—71)



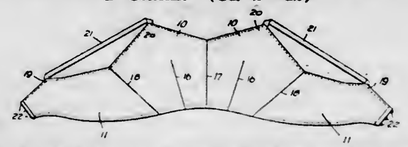
1. Apparatus for use in a staple-strip producing machine, comprising a staple-shaping anvil having a recess formed therein, an adhesive applying member projecting through the said recess, and means for placing each member of the said row of staples into contact, consecutively, with the said adhesive applying member.

1,942,250

BRASSIÈRE

Johannah Letz, New York, N. Y.

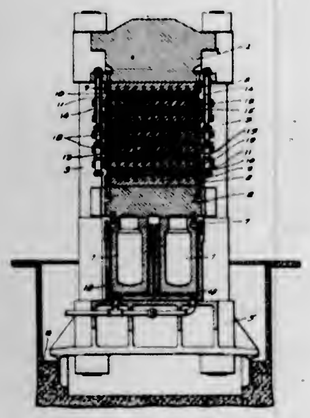
Application July 30, 1932. Serial No. 627,049
1 Claim. (Cl. 2—42)



A brassière comprising individual pocket members attached together along the front center line of the garment and being adapted to fit over

the breasts of the wearer, and a back piece extending from a free side edge of each pocket member in a direction away from the respective pocket member to which it is attached, said back pieces having means at their tapered ends to permit the same to be detachably connected together and being formed into the garment so that when their ends are connected together they lie in a position with their upper edges extending in a generally upwardly inclined direction toward their respective tapered ends with their lower edges extending in a greater upwardly inclined direction, the said pocket members each being formed of a section of woven material having an inverted V-shaped opening with one edge thereof being coincident with the straight of the material and with both edges thereof being connected together.

1,942,251
HYDRAULIC PRESS
Gerald H. Mains, Murrysville, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 27, 1930
Serial No. 505,188
8 Claims. (Cl. 18—17)



3. A molding press comprising a stationary head casting, a movable casting, a heating and cooling platen supported in spaced relationship between said castings, and in sequence a thermal-insulating and cushioning pad and a plate capable of being cooled, interposed between the heating and cooling platen and one of said castings.

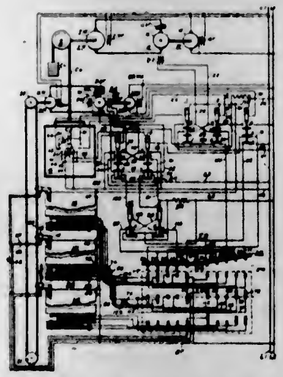
1,942,252
DEVICE FOR KILLING FLIES AND OTHER INSECTS
James Leslie Martin, Thornbury, Victoria, Australia
Application June 24, 1931, Serial No. 546,568, and in Australia November 21, 1930
4 Claims. (Cl. 43—137)

1. An insect killing device of the character described, comprising a wire mesh striker, a substantially U shaped in section reinforcement extending around and accommodating the marginal portions of a part of said striker, an edge frame of rubber within which said reinforcement and the marginal edge portions of said striker



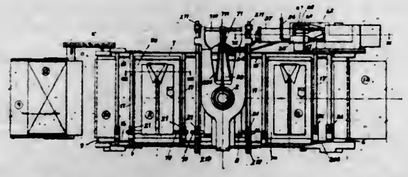
are embedded, and a handle for the device connected to the reinforcement.

1,942,253
ELEVATOR DOOR OPERATING APPARATUS
Harold W. Mattingly, Swissvale, and Frank E. Lewis, Forest Hills, Pa., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania
Application March 6, 1929. Serial No. 344,735
2 Claims. (Cl. 187—52)



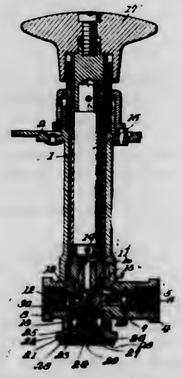
1. In an elevator system, a car operable in a hatchway; a motor for driving said car; means for controlling said motor; a plurality of doors in said hatchway; a door motor having an armature and a field winding; mechanism for controlling said door motor to move any one of said doors between predetermined limit positions, including means for applying a voltage to said armature; means responsive to the position of said car for initiating operation of said mechanism to move any selected one of said doors when said car is in a predetermined position with reference to said selected door; and means responsive to the position of said selected door for controlling said mechanism to establish connections of said door motor such that said field winding is energized, said voltage is zero and said armature is included in a local circuit, when said selected door is in a limit position, whereby said selected door is brought to rest by dynamic braking.

1,942,254
SHIRT PRESSING MACHINE
Thomas H. McGowan, Butler, Pa., assignor to Spaide Shirt Company, a corporation of Pennsylvania
Application March 3, 1930. Serial No. 432,771
23 Claims. (Cl. 68—9)



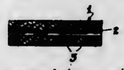
1. In a shirt-pressing machine the combination with a frame, of a plurality of shirt-bearing surfaces movably supported by said frame, a pressing head, means for moving said surfaces one after another to a position beneath said pressing head, said pressing head being movable to and from pressing position on the shirt-bearing surface which lies immediately beneath the head, fluid pressure means for effecting such movement of the pressing head, valving means for causing said fluid pressure means to maintain said head in pressing position for an interval of time sufficient to press a shirt, and adjustable controlling means associated with said valving means for varying such interval of time in which said head remains in pressing position.

1,942,255
PRIMER FOR GAS ENGINES
Arthur La Rue Parker, Cleveland, Ohio
Application August 30, 1933. Serial No. 687,508
6 Claims. (Cl. 103—2)



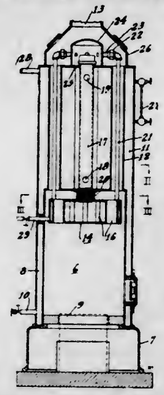
1. A fluid dispensing device comprising a housing having an inlet port to which a supply pipe is connected and an outlet pipe to which a dispensing pipe is connected, a pump having connection to said housing for drawing fluid from the supply pipe and for delivering the same to the dispensing pipe, a spring closed check valve between said pump and said dispensing pipe, a diaphragm having one side thereof subjected to atmospheric pressure and the other side thereof subjected to the pressure on the dispensing pipe and means whereby said diaphragm operates on said check valve for forcibly seating the same when the dispensing pipe is subjected to a suction pull.

1,942,256
WALL PLUG
John Joseph Rawlings, London, England, assignor of one-half to The Rawlplug Company Limited, London, England
Application April 21, 1930, Serial No. 446,043, and in Great Britain April 11, 1930
3 Claims. (Cl. 72—105)



1. A wall plug, comprising a tubular cylindrical body of semi-plastic material and fibers irregularly embedded therein extending in a helical direction with reference to the axis of the tubular body.

1,942,257
STEAM BOILER
John W. Rudder, Montgomery, Ala., assignor of one-half to Alexander F. Whiting, Montgomery, Ala.
Application October 5, 1932. Serial No. 636,274
8 Claims. (Cl. 122—131)

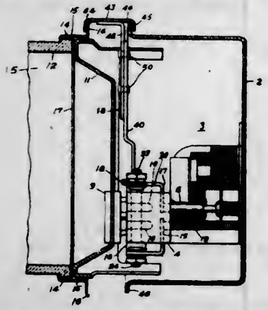


1. In a steam boiler, a fire-box, a steam generating casing in the fire-box, a boiler above the casing and heated by products of combustion from said fire-box, said boiler having a lower water receiving portion and an upper steam space, a fire-tube extending through said boiler, an upflow conduit leading from said casing through said fire-tube and discharging into the steam space of the boiler, and a pipe extending from an upper portion of the boiler downwardly to said casing, said pipe having an opening adjacent its upper end in communication with said steam space and another lower opening in communication with the water receiving portion of the boiler, whereby a portion of the steam generated in said casing may pass upwardly in said pipe and flow to the steam space through said upper opening, and water in said boiler may flow downwardly in said pipe to said casing and be heated by contact with said upwardly flowing steam.

1,942,258
TEST BLOCK FOR METERS
Argyle R. Rutter, Chatham, and Walter G. Mylius, Summit, N. J., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania
Application May 1, 1930. Serial No. 448,869
7 Claims. (Cl. 175—183)

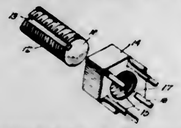
1. In combination with a detachable watthour meter having contacts secured to the casing there-

of and a receptacle for removably receiving said watthour meter having contacts disposed therein for engagement with said watthour meter contacts when the instrument and receptacle are in operative position, of an auxiliary unit including terminals corresponding to the contacts of said instrument and terminals corresponding to



the contacts in said receptacle for interposition between the instrument and the receptacle, additional terminals operatively connected to the first-named terminals for connection to a translating device, and means on said unit for cooperation with the casing of said instrument and said receptacle to maintain the elements in operative position.

1,942,259
COMBINATION LOCK BOLT
George Schiemer, Parma, Idaho
Application March 4, 1932. Serial No. 596,834
1 Claim. (Cl. 151—2)



A nut lock comprising a threaded bolt having a longitudinal furrow formed therein transversely of the threads, said furrow being of slightly greater depth than the depth of the threads, of a nut having one or more soft tempered bendable keys projecting longitudinally from one side thereof a distance substantially equal to the thickness of the nut, with the inner edge of said key displaced from registration with the bore of the nut a distance slightly greater than the depth of the threads, the end of said inner edge tapering abruptly outward to meet the outer edge, the outer edge extending parallel to the inner edge for the greater part of its length, and then inclining abruptly to a corner of the nut, the distance between the parallel inner and outer edges of said key being less than half the distance between the bore and the outside of the nut.

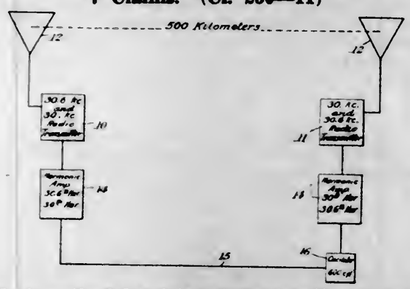
1,942,260
ALLOY
Howard Scott, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
No Drawing. Application July 5, 1929
Serial No. 376,292
12 Claims. (Cl. 75—1)

1. An alloy of low thermal expansivity essentially of iron base containing nickel and cobalt in a sum of about 43 to 55 per cent to obtain inflection temperatures above approximately 300° C., with the cobalt at least about 12 per cent to obtain low expansivity, and nickel at least 15 per cent, the balance of the alloy being substantially iron.

1,942,261
ALLOY
Howard Scott, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
No Drawing. Application February 8, 1930
Serial No. 427,061
11 Claims. (Cl. 75—1)

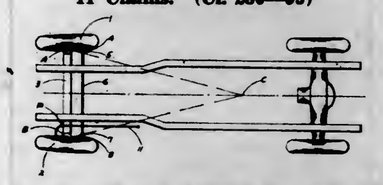
1. A low expansion iron-base alloy comprising a combined nickel-and-cobalt content between 33% and 38%, and small amounts up to the order of one percent of additional element from the group consisting of carbon and manganese, the amount of cobalt varying from 2% to 8%, the balance of the alloy being substantially iron and the alloy being of reversible, low expansivity below about 8×10^{-6} expansivity.

1,942,262
METHOD FOR DETERMINING LOCATION IN PROGRESS OVER A GIVEN AREA
John P. Shanklin, Marion, Va.
Application March 22, 1933. Serial No. 662,180
7 Claims. (Cl. 250—11)



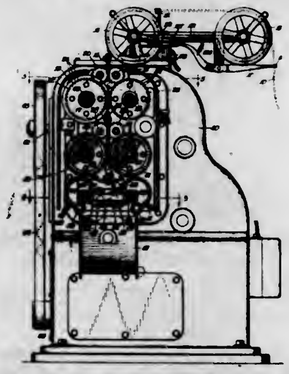
6. A method for determining location in progress over a given area which comprises projecting a network of radio standing waves over such area in a duality of slightly differing frequencies, then indicating the instantaneous voltages of the waves of each frequency, and finally determining position in said area by the out-of-phase relation of the zero voltages of the two waves at the time of the calculation.

1,942,263
STEERING MECHANISM
John Sneed, Grosse Pointe, Mich.
Application March 22, 1930, Serial No. 438,112
Renewed November 23, 1932
11 Claims. (Cl. 280—95)



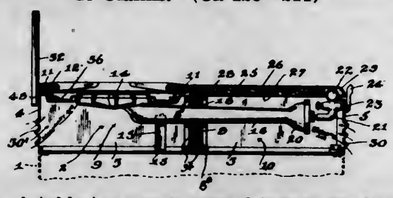
1. In combination a steering knuckle, a steering arm associated therewith, means for pivotally supporting said arm on said knuckle and means for adjustably rocking said arm about said support to change its relation to said knuckle.

1,942,264
MACHINE FOR COILING SOLDER
Andrew F. Sternad, Chicago, Ill., assignor to Gardiner Metal Co., Chicago, Ill., a corporation of Illinois
Application May 6, 1930. Serial No. 450,213
16 Claims. (Cl. 140—92.2)



1. In an automatic coiling machine, a pair of spindles of substantially the same diameter as the inside of the coil to be formed, means for feeding the material to be coiled first into engagement with one spindle and then into engagement with the other, means for rotating the spindle to which the material is fed to cause the material to be wound directly thereon, means for causing each spindle to grip the leading end of the material to be coiled thereon, means for cutting the material being coiled on either spindle into a predetermined length to complete the coil on that spindle, and means for stripping the completed coil from the spindle.

1,942,265
STRAIGHT-LINE COOKING TOP RANGE OR STOVE
Jacob Teller and Arthur P. Schulz, New York, N. Y., assignors, by mesne assignments, to Teller Stove Designing Corporation, a corporation of New York
Application October 23, 1931. Serial No. 570,673
13 Claims. (Cl. 126—214)



1. A table top range comprising an upper portion divided along a longitudinal substantially median line into a forward plane top table section and a rear cooking section, a plurality of burners mounted within said rear cooking section and having gas supply pipes extending into said forward section.

1,942,266
TRAFFIC CONTROL SYSTEM
Phillips Thomas, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application February 14, 1931. Serial No. 515,714
1 Claim. (Cl. 177—339)

A traffic control system for a plurality of highways comprising traffic signalling means provided with stop, caution and go signals for each of said highways, means cooperating with said signalling means to normally energize said stop signal for all of said highways, means to be vehicle actuated disposed on each of said highway, means to respond to the vehicle responsive means on one of the highways when it is actuated by a vehicle moving along said highway to deenergize the stop signal and to energize the go signal for the said highway, means responsive to the vehicle responsive means on another highway when it is actuated within a predetermined time of the ac-



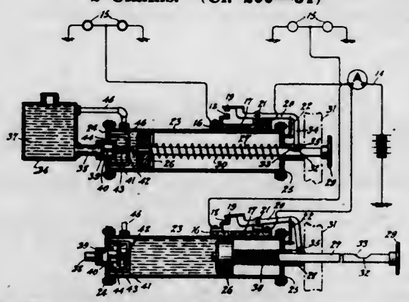
tuation of said first named vehicle responsive device to deenergize said stop signal and to energize the go signal for said last named highway, at least a predetermined period of time after said go signal for said first mentioned highway has been energized, and to simultaneously reenergize the stop signal on said first named highway and means for energizing said caution signals for all of said highways for a predetermined interval of time between the transfer of a go signal from said first named highway to said last named highway and a stop signal from said last named highway to said first named highway.

1,942,267
DEVICE FOR SORTING ARTICLES OR PACKAGES INTO GROUPS OF VARIOUS WEIGHTS
Reginald Gladwyn Warren, Liverpool, England
Application October 22, 1932, Serial No. 639,057, and in Great Britain October 23, 1931
6 Claims. (Cl. 209—121)



1. A weighing scale for use in sorting articles into groups of various weights comprising a framework, a scale beam fulcrumed in said framework, a counterweight on one end of said beam, a weight arranged substantially vertically above the fulcrum of said beam when in the position of rest, a tipping scale plate pivotally mounted on the other end of said scale beam and an adjustable stop on said framework to engage said tipping scale plate upon depression of that end of the beam to tip the plate.

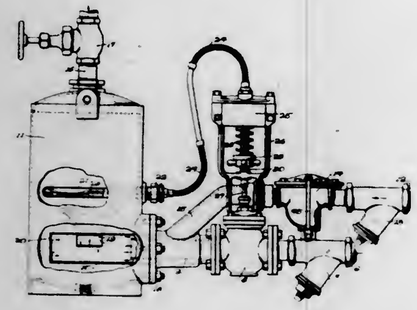
1,942,268
SIGNALING DEVICE
Angelo Zeno, Dobbs Ferry, N. Y.
Application September 28, 1932
Serial No. 635,256
2 Claims. (Cl. 200—34)



1. The combination with an electric switch including a pivoted spring actuated contact mem-

ber; of a slidable actuating member having a notch and cam, and resilient means to cause the reverse movement of said actuating member to a normal position, said contact member entering said notch when said actuating member is in its normal position thereby opening said switch, said cam causing the movement of the contact member thereby closing said switch upon manual direct movement of said actuating member, said actuating member retaining said contact member in switch-closing position while the actuating member is in an advanced position and until said contact member enters said notch upon the restoration of the actuating member to its normal position by the resilient means upon the release of the actuating member.

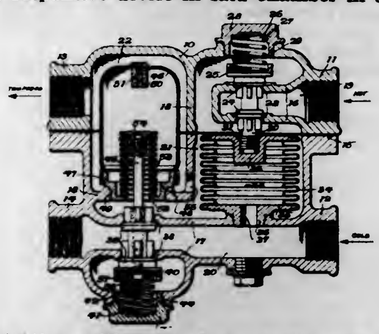
1,942,269
FLUID MIXING DEVICE
Lloyd L. Davies, Jules V. Resek, and William W. Carson, Jr., Knoxville, Tenn., assignors to The Fulton Syphon Company, Knoxville, Tenn., a corporation of Delaware
Application March 28, 1932. Serial No. 601,624
12 Claims. (Cl. 236—12)



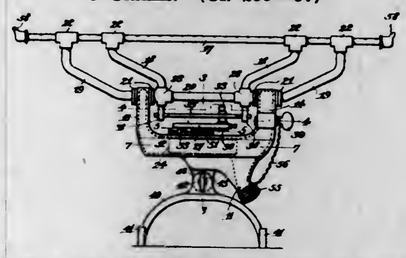
1. In a device for mixing fluids, a mixing chamber having an inlet for each of two fluids to be mixed, a fluid supply conduit connected to each of said inlets, means for controlling the flow of the fluid in one of said conduits in accordance with variations in the temperature of the mixture of fluids in said chamber, and means for controlling the flow of the fluid in the other of said conduits in accordance with variations in the difference between the pressure of the fluid in said first named conduit and the pressure of the mixture of the fluids in said chamber.

1,942,270
FLUID MIXER
Jules V. Resek, Knoxville, Tenn., assignor to The Fulton Syphon Company, Knoxville, Tenn., a corporation of Delaware
Application January 28, 1933. Serial No. 654,050
31 Claims. (Cl. 236—12)

1. In a device for mixing fluids, a mixing chamber having an inlet for each of the fluids to be mixed, a thermostatically operated valve for controlling the flow of fluid through one of said inlets in accordance with variations in the temperature of the mixture of fluids, a valve for controlling the flow of fluid through the other of said inlets, and means including a pressure responsive device in said chamber in communication with said first named inlet and connected to said second named valve.

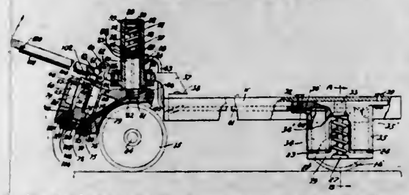


1,942,271
SPRINKLER
William Frederick Barrington, Quincy, Mass.
Application January 29, 1932. Serial No. 589,731
6 Claims. (Cl. 299—67)



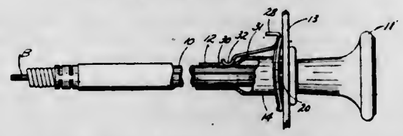
2. In a sprinkler, the combination of a casing having a water inlet, an oscillatory sprinkler assembly mounted on said casing in communication with the interior thereof, a water wheel within said casing which is rotated by water flowing through said casing from the inlet to said sprinkler assembly, a slotted member connected with said assembly and having rocking movement with respect thereto, and a crank mounted on and driven by the shaft of said wheel thereby cooperating with said slotted member to cause the oscillation of said assembly in response to the rotation of said wheel.

1,942,272
LIFT-HAND TRUCK
Anthony Bizzarri, New York, N. Y.
Application February 10, 1931, Serial No. 514,783
Renewed May 22, 1933
5 Claims. (Cl. 138—9)



1. In a device of the character described, front and rear platforms provided with axles and wheels, hydraulic pistons carried by said front and rear platforms, hydraulic cylinders cooperating with said hydraulic pistons, the hydraulic cylinder on the front platform enclosing a spring for retaining said cylinder in normal position, the rear platform carrying a spring for retaining said platform in normal position, a truck body supported by said hydraulic cylinders, and hydraulic pumping means, operable by the truck handle cooperating with said hydraulic pistons and said hydraulic cylinders for raising said truck body.

1,942,273
CONTROL DEVICE
Frederic M. Bosworth, Rocky River, and Henry D. Stecher, Lakewood, Ohio, assignors to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application August 30, 1932. Serial No. 631,062
10 Claims. (Cl. 74—39)



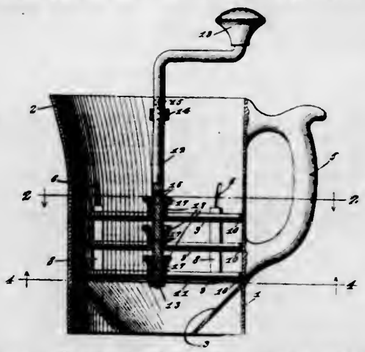
1. A controlling device comprising in combination, a hollow sleeve adapted to be secured to an apertured plate, said sleeve having slots therein adapted to be disposed on one side of the plate, and a lateral aperture adapted to be disposed on the same side of the plate, a control rod reciprocable in said sleeve and having a recessed portion, and a resilient clip having a base portion adapted to engage the plate, spaced legs adapted to engage the slots in the sleeve to secure the sleeve to the plate, a central finger projecting away from the general plane of the clip and adapted to project through said lateral aperture and resiliently to engage the recessed portion of the rod to retain the rod in a definite position, and a projection adjacent the slot to retain the clip in engagement with the sleeve.

1,942,274
PRIMING MIXTURE
Willi Brün, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application October 19, 1931
Serial No. 569,835
16 Claims. (Cl. 52—4)

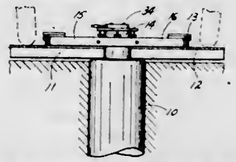
1. An ammunition priming mixture containing red crystalline basic lead styphnate.

1,942,275
AGITATOR FOR SIFTERS
Bartholomew James Carey, Genesee, Idaho
Application March 30, 1932. Serial No. 602,083
1 Claim. (Cl. 209—355)

A flour screen including a tubular vessel having its sides and its front curved outwardly from the back to the front thereof and the curved portion, at the juncture of the straight portion of the vessel having rightangularly arranged grooves therein, an integrally formed funnel-shaped bottom in the vessel, a plurality of screening discs, each of a different mesh and each provided with a rim, plates secured to the rims and spacing the discs, lugs on the plates to be received in the grooves of the vessel, a reinforcing spider on the under face of the lower disc, a shaft passing centrally through the discs and spider and removably secured to the latter, a removable bearing plate on the vessel for the shaft and said shaft having an upper angle end provided with a revoluble handle, the lower end of the shaft having oppositely disposed longitudinally extending grooves, agitator blades having inwardly extending lugs to be received in the grooves, said blades resting on the respective discs, said blades being substantially Y-shaped in cross section and the rear of the vessel being provided with a handle.

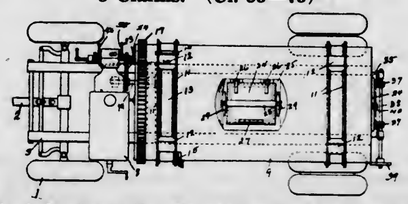


1,942,276
AUTOMOBILE JACK
Kenneth S. Clapp, Cleveland, Ohio
Application July 20, 1932. Serial No. 623,596
3 Claims. (Cl. 254—89)



1. In combination with an automobile lubricating lift having parallel flanged guide rails, a lifting jack comprising a hydraulic ram, arms of equal length secured to the cylinder of said ram intermediate its length and extending laterally therefrom, plates adjustably mounted upon the free ends of each of said arms, flanges formed in the outer ends of said plates adapted to overlie the flanges of the lift guide rails for preventing lateral dislodgment of the lifting jack relative to the guide rails, the length of the portion of the body of the ram which depends below the arms being less than the distance of the lubricating lift guide rails from the floor when the lift is in its lowered position.

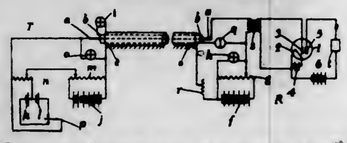
1,942,277
PORTABLE AGITATOR
Norris K. Davis, Reno, Nev., and Alfred E. Mason, San Francisco, Calif.; said Mason assignor to said Davis
Application March 17, 1930. Serial No. 436,408
3 Claims. (Cl. 83—73)



1. A horizontally disposed cylindrical agitator drum, means mounting said drum for revolution, a discharge door at one end of the drum,

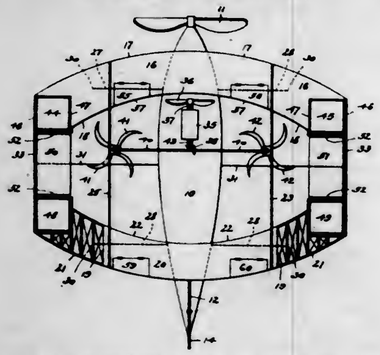
and a charging door on the side of the drum seated in a depression in the circular wall thereof, said charging door hingedly connected to the drum, a bar extending across the door, and pivot bolts extending from the drum engaging opposite ends of the bar and means for locking the charging door in closed position.

1,942,278
MEANS OF AND APPARATUS FOR TRANSMITTING MESSAGES THROUGH SUBMARINE AND OTHER LIKE CABLES
William Estaugh, Wanstead, England
Application August 2, 1932, Serial No. 627,266, and in Great Britain August 14, 1931
7 Claims. (Cl. 178—63)



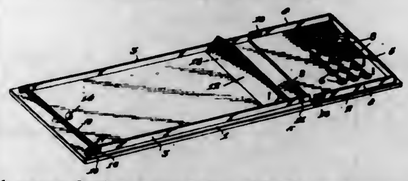
1. Means and apparatus for transmitting messages through a submarine or other like cable consisting of an inner insulated conductor; an outer insulated conductor; an earthed electrical charging source at the receiving end connected to said inner and outer conductors, whereby said outer conductor screens said inner conductor from earth capacity except towards the transmitting end of the cable where the potential of said outer conductor progressively falls owing to leakage and resistance; an earthed electrical signalling source whose like terminal is connected to the transmitting end of the inner conductor and signaling means for varying the potential of said signalling source between the potentials applied by the charging source to said inner and outer conductors at the transmitting end so as to cause signalling currents of varying strength to pass from the receiving end through signal receiving instruments, to the transmitting end of the cable substantially as set forth.

1,942,279
AIRPLANE
Mariano Finocchiaro, Bellevue, Del.
Application March 16, 1932. Serial No. 599,313
14 Claims. (Cl. 244—12)



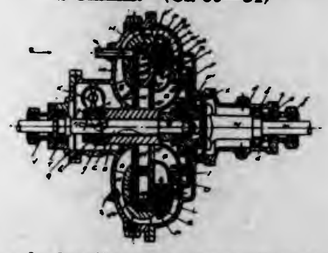
14. In an airplane, a pair of oppositely curved wings connected in spaced tandem relation in substantially the same plane, the forward edge of the front wing and the trailing edge of the rear wing substantially forming the major arcs of an ellipse and helicopters mounted in the space between the two wings but nearer the front wing than the rear wing whereby the balance of the machine is maintained when descending and ascending.

1,942,280
GAME
Edwin C. Fohmann, Philadelphia, Pa.
Application June 26, 1931. Serial No. 547,691
1 Claim. (Cl. 272—129)



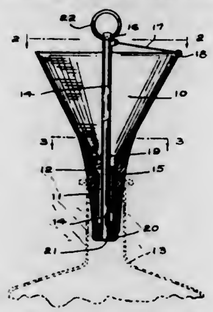
A game device comprising side flanges mounted on a board and having notches opening outwardly through the upper edges thereof to form mouths, projections on the walls of the notches and arranged laterally of the mouths, and an elastic band for projecting game pieces extending into the notches by way of the mouths and positioned over the projections.

1,942,281
HYDRAULIC POWER TRANSMITTER
James Fraser and Duncan Campbell, Glasgow, Scotland
Application May 25, 1931, Serial No. 539,972, and in Great Britain April 25, 1931
2 Claims. (Cl. 60—54)



1. In a hydraulic power transmitter, a casing, a driving shaft in one end of the casing, an impeller mounted in the casing, and having impeller blades, the said impeller slidably keyed to the driving shaft, a central core having stationary blades secured to one face thereof and a ring plate carried on the opposite face, a center piece having an internal opening for mounting a second ring plate, the said central core carried in the opening with the ring plates in spaced apart relation for forming an internal chamber, division plates secured to the casing and center piece for holding the same in spaced apart relation to communicate with the internal chamber and the impeller, means for connecting the exterior and the internal chamber to supply a liquid to the impeller, a driven shaft supported in the opposite end of the casing, a disc carried by the driven shaft having secured thereto a set of ahead turbine blades in direct alignment with the impeller blades for the passage of the liquid to rotate the driven shaft in one direction, the said disc having secured thereto a set of reverse blades arranged concentric to the stationary blades, and means for shifting the impeller with the impeller blades into alignment with said stationary and reverse blades for passage of the liquid to drive the driven shaft in the reverse direction.

1,942,282
FUNNEL
Louis Green, Parry Sound, Ontario, Canada
Application November 13, 1931
Serial No. 574,866
2 Claims. (Cl. 226—36)



1. In a funnel of the type described, a conical shaped body having a depending outlet tube, a centrally disposed breather tube having its lower end flared outwardly, a guide bracket slidably supporting said breather tube, a stopper mounted on the lower end of said breather tube, adapted to engage the lower end of the outlet tube, and brace rods having one of their ends pivotally connected to the upper end of said breather tube and their opposite ends pivotally connected to the upper edge of said body.

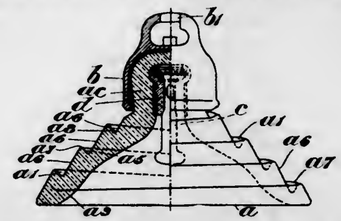
1,942,283
ERASER HOLDER
Frank M. Hale, Mexico, Mexico
Application May 3, 1933. Serial No. 669,262
11 Claims. (Cl. 120—36)



1. An eraser holder comprising a stem, an enclosure disposed about said stem and erasing material mounted on said stem and movable thereon to provide an exposed portion extending from the enclosure.

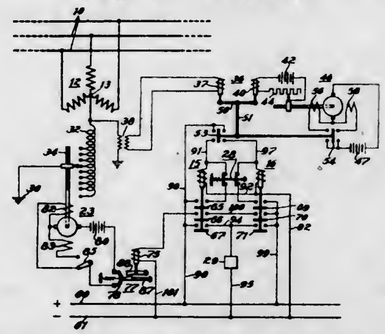
1,942,284
ELECTRIC INSULATOR
Geoffrey Herbert Halton, Stourport, England, assignor to Steatite and Porcelain Products Limited, a corporation of Great Britain
Application May 24, 1932, Serial No. 613,305, and in Great Britain May 27, 1931
4 Claims. (Cl. 173—318)

1. An electric insulator for use with its longitudinal axis normally in a vertical position, said insulator having on its outer surface a helical groove extending downwardly to form a continuous drain channel, the outer surface of the insulator increasing in peripheral dimension progressively from top to bottom and the groove being substantially V-shaped in cross section with the inner side of the groove extending above the outer side to the outer wall of the portion of



the groove above it, whereby the whole of the outer surface of the insulator is exposed directly to vertical rain fall.

1,942,285
AUTOMATIC ADJUSTING SYSTEM
Paul Hameyer, Hanover, Gerhart Meyer, Dresden-Radebeul, and Joachim Jungmichl, Berlin-Steglitz, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation
Application December 28, 1932, Serial No. 649,136, and in Germany December 29, 1931
10 Claims. (Cl. 172—237)



1. In combination, an alternating-current system having a neutral point, an inductive circuit for connecting said neutral point to the ground, means for adjusting the reactance of said inductive circuit, and a system of relays, influenced by the voltage between said neutral point and ground, for controlling the operation of said adjusting means, said relay system being disposed to interrupt the operation of said reactance-adjusting means as soon as the voltage from said neutral-point to ground has passed its maximum value as a result of a reactance adjustment.

1,942,286
ATTACHMENT TO REAPING MACHINES FOR THE PURPOSE OF LIFTING FALLEN GRAIN
John Harkness, Newfield Smithy, Ruthwell, by Annan, Scotland
Application September 12, 1932, Serial No. 632,821, and in Great Britain October 1, 1931
2 Claims. (Cl. 56—312)

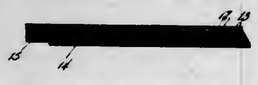
1. In an attachment for reaping machines provided with a supporting frame, a device for lifting fallen grain comprising an arm fixed to the frame, a striker member pivotally mounted on the arm, a hook-shaped rod having a short and a long finger, means for pivotally mount-

ing the short finger to the fixed arm supported by the frame, whereby contact with the long finger permits movement of the rod, a guide rail connected to the striker member, and having its



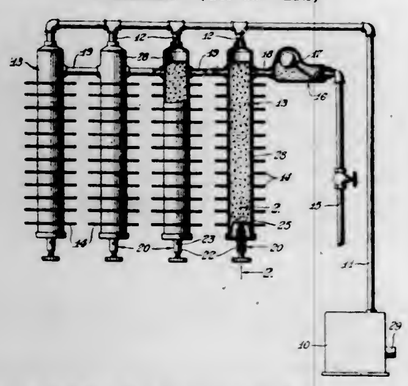
free end rest upon the long finger, and a spring for connecting the rod and the striker member to permit movement of these parts, and to provide means for restoring the same to initial position.

1,942,287
LAMINATED BOARD TOP OR COVERING FOR FURNITURE, ETC.
Alka T. A. Heitz, Walden, N. Y.
Application March 28, 1932. Serial No. 601,675
2 Claims. (Cl. 154—43)



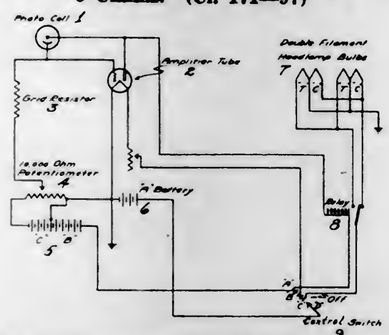
1. As an article of manufacture, a sanitary laminated board top for tables and the like comprising a multiplicity of sheets of paper adhesively secured together and adapted to be removed, one at a time without tearing, to expose a new surface; a foundation sheet of relatively strong fabric adhesively secured to the lower sheet; and non-adhesive superposed finger tab-extensions integral with each of said sheets to facilitate easy and quick removal.

1,942,288
COOLING UNIT
David K. Hess, Madison, Wis.
Application October 24, 1932. Serial No. 639,387
2 Claims. (Cl. 62—152)



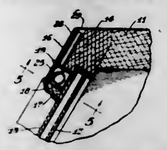
1. A cooling unit comprising the combination of an evaporator including a fluid container body having external heat-absorbing fins, an evacuator, a conduit interconnecting the evacuator and the evaporator, a fluid supply line opening into the evaporator, a float control valve in the supply line, an air admission valve in the bottom of the evaporator, and an inverted porous cup arranged in the bottom of the evaporator over the air valve.

1,942,289
VEHICLE HEADLIGHT CONTROL APPARATUS
Richard Hipp, Jr., Pomaria, S. C.
Application June 27, 1931. Serial No. 547,427
6 Claims. (Cl. 171—97)



5. In apparatus for the control of illumination, the combination of an electron discharge device having grid, filament and plate electrodes, input and output circuits connected to said electrodes, a light sensitive cell connected to said input circuit, a relay connected to said output circuit, a source of current supply connected to said filament electrode, a lamp having a pair of filaments, connections between said filaments whereby lamp filaments may be controlled by the operation of said relay, connections for energizing said lamp filaments from said source of current supply and switch means for interrupting the circuits of said lamp filaments and said electron discharge device filament simultaneously.

1,942,290
REFRIGERATOR LIGHTING STRUCTURE
Fred E. Horn, Marshall, Mich.
Application January 9, 1933. Serial No. 650,925
3 Claims. (Cl. 240—6)

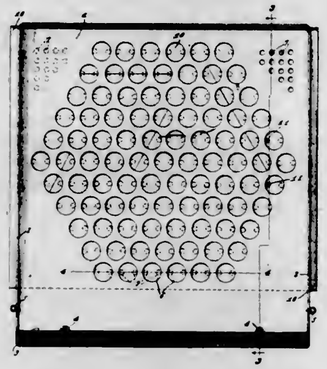


1. In a lighting structure for a refrigerator display case having a transparent front wall, a rail extending parallel to the front wall along the upper edge thereof having a recess formed therein opening at its rear side against the transparent front wall of the refrigerator and at its lower side downwardly along said front wall at the outer side thereof, a socket, and means for pivotally mounting the same in the recess for movement through the open lower side thereof in a plane parallel to said front wall, a light-emitting element in the socket, and a closure member removably attached to said rail for closing the open lower side of said recess.

1,942,291
GAME BOARD
Glenn V. Jefferson, Swissvale, Pa.
Application April 4, 1932. Serial No. 603,147
2 Claims. (Cl. 273—130)

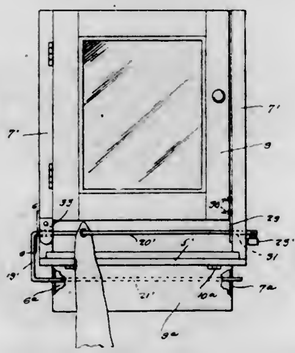
2. In a game apparatus of the type described, two plates arranged back to back, and having their edges provided with continuous flanges and

their lower portions formed with outwardly directed angularly disposed portions affording troughs, pivots loosely connecting the lower ends of the plates, compression springs connected to the flanges above the troughs, for forcing the plates together, said plates having a series of longitudinal and vertical round openings therethrough and having a series of apertures at the



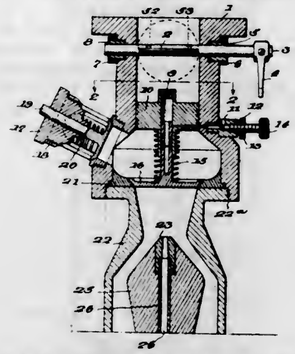
upper corners of said plates, an intermediate plate held between the first-named plates by the pivots, said plate having series of apertures arranged in pairs and said pairs of apertures being disposed opposite the round openings in the outer plate, a centrally folded paper sheet arranged over the intermediate plate to cover the openings therein, and game pieces in the nature of double pointed darts to pierce said paper sheet.

1,942,292
TOWEL SERVICE CABINET
Samuel Kaidy, Enid, Okla.
Application July 14, 1931, Serial No. 550,772
Renewed August 28, 1933
2 Claims. (Cl. 312—37)



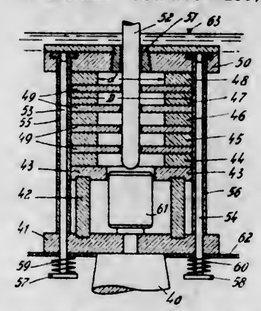
2. A towel cabinet including in combination a pair of opposed walls, a door hinged to one of said walls for horizontal swinging movement, and a U-shaped rod having parallel sides, one of which is supported between said opposed walls, and means on said door engageable with said one side of said rod for securing said door in closed position.

1,942,293
CARBURETOR
Frank Andrew Kane, Long Island City, N. Y., assignor to Kane Carburetor Corporation, Long Island City, N. Y., a corporation of Delaware
Application March 11, 1932, Serial No. 598,297
Renewed June 6, 1933
5 Claims. (Cl. 48—180)



1. A charge forming apparatus comprising the following instrumentalities: a casing, an air inlet and a fuel feed pipe therefor, a bell chamber contained within said casing, a vacuum control bell in said bell chamber, said bell having a conical head and a body tapering downward, with an annular camber or shoulder between them, means to adjust said bell axially in said bell chamber, means to lock the same when adjusted, conical tapering walls in the upper part of the bell chamber above the conical top of the bell, with an annular air passage between them having a central discharge opening over the tip of the bell cone, an air vent duct surrounding the lower end of said bell, with a discharge pipe and a throttle valve controlling the discharge.

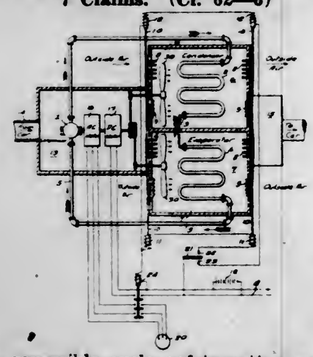
1,942,294
CIRCUIT BREAKER
Werner Kaufmann, Berlin-Siemensstadt, Germany, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application June 27, 1931, Serial No. 547,297, and in Germany July 3, 1930
10 Claims. (Cl. 200—150)



1. In a circuit interrupter, relatively movable contact members for opening and closing the circuit, and an arc extinguishing device including a substantially closed pressure chamber wherein said contact members move to establish an arc, a body of liquid contained therein, the walls of said chamber being defined by a plurality of

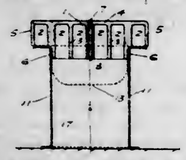
separable plates movable in response to pressure within said chamber to establish vent openings therebetween and means biasing said plates toward each other.

1,942,295
REVERSIBLE-CYCLE HEATING AND COOLING SYSTEM
Charles Kerr, Jr., Edgewood, and John K. Stotz, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 1, 1933. Serial No. 659,197
7 Claims. (Cl. 62—6)



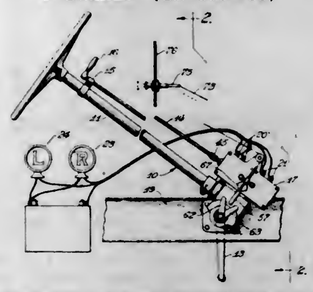
1. A reversible-cycle refrigerating and heating system comprising the combination, with a room to be cooled or heated, of a refrigerating unit comprising a condenser and an evaporator disposed in side-by-side relation, means for providing separate chambers for said condenser and said evaporator, two sets of closure means in each end of each of said chambers, the two outer sets of closure means of the condenser chamber and the two inner sets of closure means of the evaporator chamber being open for refrigeration and closed for heating, and the remaining sets of closure means being closed for refrigeration and open for heating, means for simultaneously shifting all sets of closure means according as heating or refrigeration is desired, an air duct from the room leading to the two inner sets of closure means at one end of the condenser and evaporator chambers, an air duct leading to the room from the two inner sets of closure means at the other end of the condenser and evaporator chambers, the remaining sets of closure means being exposed to the outside air, and means for maintaining drafts of air flowing from end to end through both the condenser chamber and the evaporator chamber.

1,942,296
CUSHION AND LIKE DEVICE
Edward Brice Killen, London, England
Application May 16, 1932, Serial No. 611,664, and in Great Britain May 28, 1931
1 Claim. (Cl. 155—179)



In a seating device comprising a body of molded rubber having an upper flat top surface, a plurality of depending flanges connected together to provide a continuous outer wall and a series of interlocked and triangular shaped air chambers, the depending flanges adjacent the inner portion of the bottom projecting below the outer flanges to form a continuous wall, and a frame to support the outer triangular shaped air chambers, the said frame having an opening with a continuous depending flange within which to insert the inner triangular shaped air chambers with the continuous wall whereby the continuous flange registers with the continuous wall for holding the molded rubber body in proper alignment with the frame.

1,942,297
VEHICLE SIGNAL SWITCH
Andrew C. Kostka, Chicago, Ill.
Application September 9, 1932. Serial No. 632,421
9 Claims. (Cl. 200—59)



1. A direction of turn signal light device for vehicles, comprising the combination of a shaft rotatably mounted on the steering column of the vehicle, and a pair of spaced relatively fixed contacts, a slidable rack, a relatively movable contact carried by the rack, a gear floating on the shaft in mesh with the rack, a lug projecting from the gear, and an arm fast upon the shaft adapted for engagement with the lug to rotate the gear and thereby move the rack to move the second-named contact into circuit-closing engagement with the fixed contacts.

1,942,298
EYEGLASSES
Edward Le Doux, Fawtucket, R. I., assignor of one-third to Alfred Le Doux and one-third to Clement Le Doux, Pawtucket, R. I.
Application December 13, 1932
Serial No. 647,045
1 Claim. (Cl. 88—53)

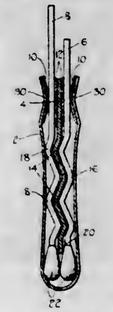


A spectacle frame comprising connected lens supporting rims, pairs of ears formed on said rims, pins connecting the ears of each pair, temple bars journaled on the pins and engaging at their free ends the temples of a person, curved extensions on the journaled ends of the bars to abut the rims for limiting the spreading of the bars apart, and tension springs on the pins and engaging the ears and extensions to urge the bars toward each other and cause said bars to tightly grip the temples of a person when worn by said person.

1,942,299
ADHESIVE AND FILM FORMING COMPOSITION
Paul C. Lemmerman and William K. Schweitzer, East Cleveland, Ohio, assignors to The Grasselli Chemical Company, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application December 16, 1931
Serial No. 581,512
4 Claims. (Cl. 87—17)

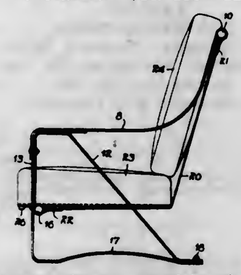
1. As an adhesive, and a film forming composition a concentrated alkali-metal silicate solution containing less than 2% of a wetting agent selected from the group consisting of naphthalene sulfonic acids containing a hydrocarbon substituent in their nucleus, sulfonic acids of complex higher hydrocarbons, sulfonated oily substances, high molecular carboxylic acids, bile acids, aldehydes, saponin, high boiling mono-hydroxy alcohols and esters.

1,942,300
MATCH PACKAGE
John D. Lerch, New York, N. Y.
Application July 29, 1932. Serial No. 625,746
8 Claims. (Cl. 206—29)



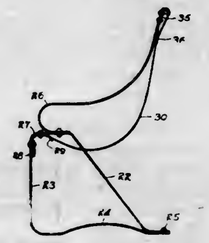
1. A match package comprising a layer of paper matches, and support walls between which said matches lie, one of said support walls being corrugated in a direction transverse to the individual matches, and said matches being corrugated to mate with the corrugations of the support wall.

1,942,301
FURNITURE
William R. McGowen, Pittsburgh, Pa., assignor to The McKay Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 27, 1932. Serial No. 613,840
6 Claims. (Cl. 155—116)



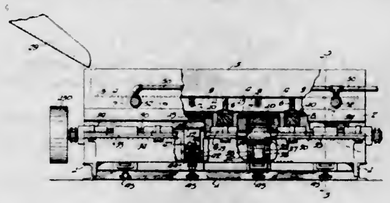
6. Chair structure comprising leg members, a cross bar disposed near the front of the structure and connecting the legs at one side with the legs at the other side, side bars of spring material extending backwardly and upwardly, means connecting the forward portions of the side bars to the legs, a cross bar connecting the rear ends of the side bars, a flexible strip connected at its ends to the said cross bars, and a seat cushion disposed on the forward portion of the said strip and movable forwardly and rearwardly with respect to the front cross bar.

1,942,302
FURNITURE
William R. McGowen, Pittsburgh, Pa., assignor to The McKay Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 10, 1932
Serial No. 646,621
2 Claims. (Cl. 155—50)



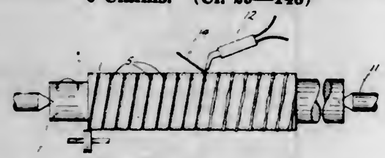
1. Seat structure comprising a frame having front and rear legs, the front legs and the rear legs being connected at their upper ends by horizontally-extending portions, yieldable side bars bent to approximately semi-circular form at their forward ends and having the shorter legs of their bent portions disposed in parallelism with and secured to the said horizontal portions, the longer portions of the side bars extending rearwardly and upwardly, a cross bar connecting the side bars adjacent to their upper ends, a cross bar secured to the front portion of the frame, and a seat supported from the said cross bars.

1,942,303
SCREEN
Orrie J. Mills, Hudson Falls, and William G. Webb, Glens Falls, N. Y.
Application June 6, 1932. Serial No. 615,670
10 Claims. (Cl. 92—32)



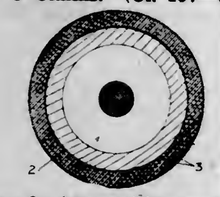
1. A screen comprising a vat containing a screen plate, a flow box extending longitudinally at one side of the vat, and a vibratory diaphragm closing the bottom of a chamber between it and the screen plate and sloping downwardly toward the flow box, such chamber having an outlet passage extending laterally through the side thereof which is at the lowest edge of the diaphragm and forming direct communication between said chamber and flow box.

1,942,304
SHAFT AND PROCESS OF APPLYING NON-CORROSIVE METALLIC SHEATHING THERETO
Laurits Emil Mylting, Hamburg, Pa., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 23, 1932. Serial No. 588,345
6 Claims. (Cl. 29—148)



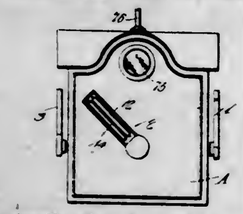
3. A method of applying non-corrosive metallic sheathing to other metallic bodies, which consists in winding the sheathing on the metallic body, spacing each convolution apart and spot welding the edge of said sheathing to the metallic body and thereafter welding the sheathing over its entire length to the shaft.

1,942,305
TYPEWRITING MACHINE
John L. Petz, Rochester, N. Y., assignor to Electromatic Typewriters, Inc., Rochester, N. Y., a corporation of New York
Application May 23, 1931. Serial No. 539,557
3 Claims. (Cl. 197—6)



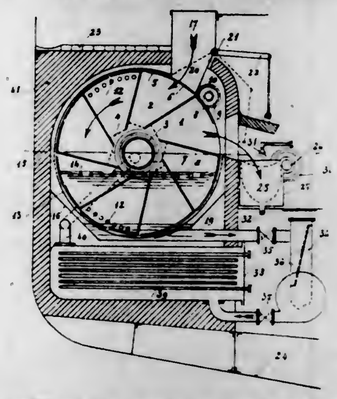
1. A platen for type writing machines comprising a core of hard material, a cover of relatively soft resilient material entirely surrounding the core, said cover having a plurality of parallel ridges and grooves in its outer surface extending longitudinally of the platen, said ridges and grooves being of substantial size in cross-section so that they will cause a character to be impressed in a work sheet when a type bar strikes such work sheet against the platen.

1,942,306
TRAFFIC SIGNAL
Albert O. Price, Uhrichsville, Ohio, assignor of one-fourth to Robert W. Rutledge and Scott P. Myers
Application March 25, 1932. Serial No. 601,221
3 Claims. (Cl. 177—327)



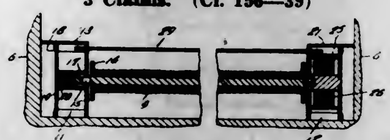
1. In a traffic signal, motive means, a rotary shaft, speed change gearing for driving said shaft from said motive means at different speeds including a shiftable element for selecting the speeds, an indicator operatively connected with said shaft and moving in a definite path when the shaft is rotating, independent illuminating elements for said indicator for controlling movement of traffic, a circuit for supplying current to a selected one of said illuminating elements including a switch, means actuated upon the indicator reaching a predetermined position in its path of movement to operate said switch and cause current to flow to another of said illuminating elements, and means moving with said switch and operated by the operating means for the switch in conjunction with the switch to shift the shiftable element and vary the speed at which the shaft rotates.

1,942,307
REFRIGERATOR
Joannes Emmerick Wolf Reeh, Chatenay, France, assignor to Société Anonyme de Conservation Industrielle du Poisson, Paris, France
Application November 11, 1929, Serial No. 406,389, and in France September 14, 1929
10 Claims. (Cl. 62—104)



1. A refrigerator more particularly for fish, in which a drum is divided into longitudinal compartments and is mounted for rotation on a fixed hollow shaft which is perforated at its lower part, in order to distribute refrigerating liquid, a cylindrical bucket surrounding and coaxial with the drum and apertured below the hollow shaft at such a height that the liquid contained in the bucket and in the interior of the drum cannot reach the hollow shaft.

1,942,308
WINDOW SCREEN
Luigi Renzetti, Medford, Mass.
Application November 23, 1932
Serial No. 644,119
3 Claims. (Cl. 156—39)



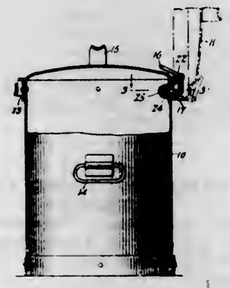
1. In a roll screen window construction including a spool, a pair of spool supporting units, a spool winding spring in one of the units, and longitudinal pressing means in the other unit for a spool.

1,942,309
CIRCUIT MAKER AND BREAKER
Max Sollar, Brooklyn, N. Y., assignor to Bertha Jacobs, Brooklyn, N. Y.
Application July 23, 1932. Serial No. 624,259
6 Claims. (Cl. 200—64)



1. A device of the character described comprising a rotatable member of insulating material having a centrally located recess therein, integrally formed teeth on the periphery and one face of said rotatable member, a metallic conducting member secured to the other face thereof and having portions extending over alternate peripheral teeth, contacts adapted to engage said peripheral portions and face portions of said conducting member, and means received within said recess coacting with the teeth on the face of said rotatable member for imparting step-by-step rotation thereto.

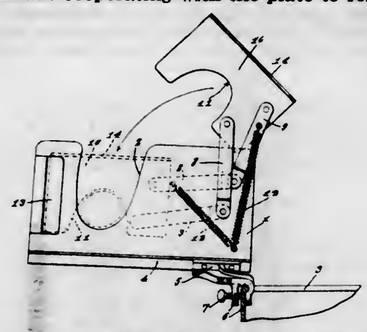
1,942,310
LID CONNECTION
Morris Stahl, Brooklyn, N. Y.
Application December 17, 1932
Serial No. 647,801
9 Claims. (Cl. 220—37)



1. The combination with a receptacle, of a lid for the receptacle, a rotary member extending through and supported by a wall of said receptacle, and means including a pivot extending transversely through said member hingedly connecting the lid with said member, the provision and arrangement being such that said lid may be swung in two different directions to opened and closed positions in relation to the receptacle.

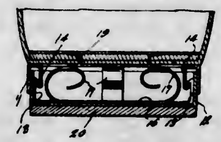
1,942,311
INNER TUBE DRIER
Clarence Taarud, Sioux Falls, S. Dak.
Application March 22, 1933. Serial No. 662,186
6 Claims. (Cl. 15—104)

1. A wiper comprising a plate having a notch to receive an inner tube after the testing of the latter in water, means for supporting said plate, and means cooperating with the plate to remove



the water from the tube during the movement of the tube relative to said means and the plate.

1,942,312
SHOE HEEL
Stephen M. Tutoky, Newark, N. J.
Application October 5, 1932. Serial No. 636,399
1 Claim. (Cl. 36—38)

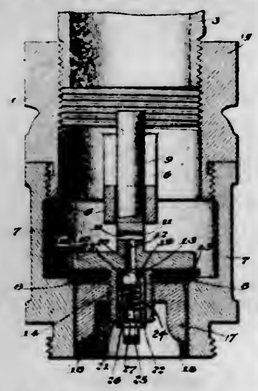


A shoe heel of the class described comprising a pair of flanged plates, the upper one being adapted to be connected to the heel of a shoe and the lower one having its flange fitting in the flange of the upper plate, a plurality of hook members located in the lower member formed by the lower plate and its flange, with portions of said hook members contacting parts of the internal wall of the flange, with the hooks extending inwardly and downwardly, a plurality of hook members connected with the top plate and having shank portions extending downwardly and having their hooks extending upwardly and outwardly and engaging the hooks of the first members, the shanks of the second mentioned hook members forming spaces between themselves and the flange of the lower plate in which space the hooks of the first mentioned hook members slide during movement of one portion of the heel in relation to the other and spring means in the heel for normally holding the parts in a position with the two sets of hook members in contacting relation.

1,942,313
PRESSURE RELIEVING CHECK VALVE FOR FLOW LINES
John Hyde Viele and Charles W. Swift, Elmira, N. Y.
Application September 2, 1931. Serial No. 560,848
1 Claim. (Cl. 277—45)

A check valve mechanism for fluid flow lines, comprising a casing and a valve seat, a centrally disposed guide stem located in said casing and movable with respect thereto, an upper valve member secured to said stem and having a reduced threaded portion, annular gaskets of compressible material surrounding said reduced portion and arranged to bear on said seat, a lower valve member provided with a threaded opening arranged to receive the threaded reduced por-

tion and to clamp said gasket against the lower face of said upper valve member, said reduced portion having a centrally disposed threaded bore and said upper valve portion having a reduced passage communicating with said bore, a gasket

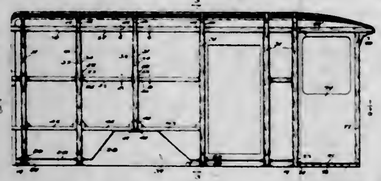


in said bore having an opening forming a continuation of the passage, a threaded sleeve in said bore for holding said last named gasket in position, and a spring pressed closure within the sleeve for normally closing the passage.

1,942,314
BODY CONSTRUCTION

Daniel W. Voltz, Chicago, Ill., assignor to Voltz Brothers, Inc., Chicago, Ill., a corporation of Illinois

Application August 21, 1930. Serial No. 476,748
7 Claims. (Cl. 296—30)



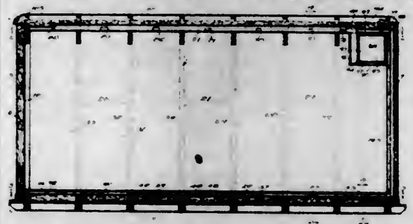
1. In a body construction which has parallel flat reenforcing plates, and a riser disposed between said reenforcing plates, the combination therewith of a bracket for securing said reenforcing plates and riser in position and including side plates and a web connecting said side plates, said side plates and web providing a channel adapted to receive the riser, attaching members extending outwardly from the side plates intermediate the ends thereof, said side plates having openings therein, and securing devices inserted through the openings in said side plates and openings in the reenforcing plates and riser to secure the reenforcing plates to the side plates of the bracket and to secure the riser in the channel.

1,942,315
BODY CONSTRUCTION

Daniel W. Voltz, Chicago, Ill., assignor to Voltz Brothers, Inc., Chicago, Ill., a corporation of Illinois

Application August 21, 1930. Serial No. 476,749
8 Claims. (Cl. 62—91.5)

4. A body construction including side, end, floor and roof walls, partition walls spaced inwardly of the walls of said body construction and joined together to provide a compartment, refrigerant supporting means adapted to receive a refrigerant and having an inlet and an outlet whereby air flowing thereinto through said inlet contacts with the refrigerant to provide a refrigerating medium adapted to flow therefrom through said outlet, a duct leading from said outlet and disposed on one of said partition walls,

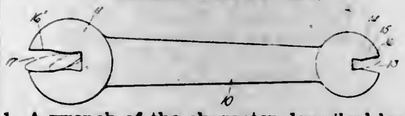


and means cooperating with the partition walls and the adjacent walls of the body construction to provide independent passages about said compartment, said duct having openings therein respectively communicating with said independent passages whereby the refrigerating medium flowing into said duct from said outlet flows through said openings into said passages to cool said compartment.

1,942,316
STREAM LINE WIRE WRENCH

Frederick A. Volz, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut

Application February 24, 1932. Serial No. 594,893
3 Claims. (Cl. 81—119)

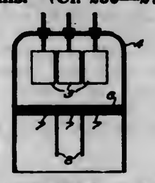


1. A wrench of the character described having a head provided with a slot open at one end and closed at its other end, said slot having side walls each of which is defined by a convex curve forwardly of the inner end wall which first narrows then widens the slot and a straight portion beyond said curved portion.

1,942,317
METAL VAPOR RECTIFIER FOR HEAVY CURRENTS

Felix Baron von Kleist, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application September 22, 1931, Serial No. 564,312, and in Germany September 25, 1930
3 Claims. (Cl. 250—27.5)

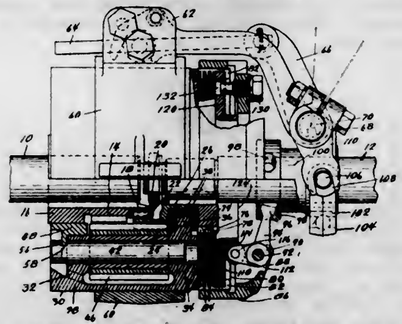


1. A polyphase mercury-arc rectifier comprising a container, a mercury cathode therein, a plurality of anodes per phase in said rectifier, the anodes of each phase being closely grouped but spaced from the anode of every other phase, a shield surrounding each phase group and a grid in each of said shields.

1,942,318
REVERSING MECHANISM

Walter C. Ware and Charles J. Robertson, Taunton, Mass., assignors to Evans Stamping and Plating Company, Taunton, Mass., a corporation of Massachusetts

Application December 14, 1931
Serial No. 580,852
12 Claims. (Cl. 74—34)

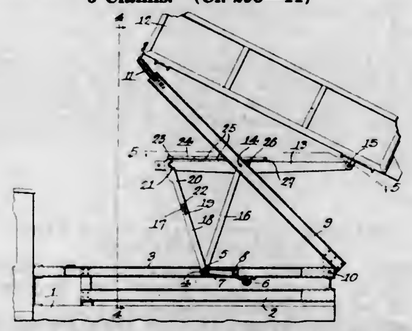


1. Reversing mechanism comprising the combination of driving and driven shafts, clutch mechanism for connecting said shafts for forward drive, and reversing gearing for connecting said shafts for reverse drive, said reversing gearing comprising a spur gear fixed to the driving shaft and having a hub, an enclosing casing carrying pinion gears some of which mesh with said spur gear, said casing having a forward inwardly directed apertured wall which surrounds said hub, supporting pins for said pinion gears located in said wall, and a bearing sleeve seated in the aperture of and bolted to said inwardly directed wall and having a rotatable support on said hub, said sleeve having means which is extended into the path of axial movement of and holds said pinion pins against axial displacement in said casing.

1,942,319
DUMP BODY

Thomas Eugene Wright, Jersey City, N. J.

Application September 2, 1931. Serial No. 560,849
6 Claims. (Cl. 298—11)

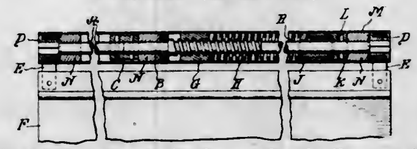


1. The combination with a truck structure and a body, of crossed pivotally connected main and supplemental supporting frames, a pivotal connection between the main frame and the truck structure, movable connections between said frames and the body, means movably engaging the truck structure for exerting a thrust against said frames at their point of connection to each other thereby to raise the frames and body, a foldable restraining element pivotally connected to the thrust means and slidably connected to the supplemental frame, and means for adjusting said element toward and from the point of connection between the frames prior to the elevation of the frames.

1,942,320
WINDOW BALANCING DEVICE

William Young, Wishaw, Scotland

Application September 12, 1932, Serial No. 632,828, and in Great Britain September 25, 1931
3 Claims. (Cl. 16—198)



1. A balancing device for mechanically operated balanced windows having a frame with a sash slidable therein comprising a casing, a shaft housed in said casing and having a spiral runway, a movable member mounted on said shaft, an adjustable nut supported on said shaft in spaced relation to said movable member, a spring housed in the casing between said movable member and said nut, rotatable members housed in said casing and supported on said shaft, and strips for engaging the rotatable members with the shaft whereby the movement of the sash operates the movable member mounted on the shaft to compress the spring and counterbalance the weight of the sash.

1,942,321
SUBMARINE CABLE

Georg Zapf, Cologne, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany

Application March 25, 1931, Serial No. 525,298, and in Germany March 21, 1930
1 Claim. (Cl. 173—266)



A deep sea submarine cable comprising cable cores and a pressure protecting casing made up of profile wires which are stranded together around the cable cores, the wires being formed with tongues and grooves for interengagement with each other and pressed into interlocking relation with each other, a lead sheathing surrounding said wires and a protecting covering of jute and armouring around said sheathing.

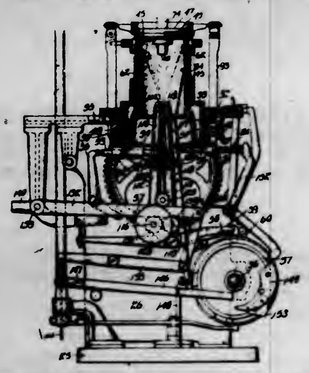
1,942,322
KNITTING MACHINE

Robert S. Beavers, Providence, R. I., assignor to May Hosiery Mills, Nashville, Tenn., a corporation of Tennessee

Application December 31, 1927
Serial No. 243,912
2 Claims. (Cl. 66—54)

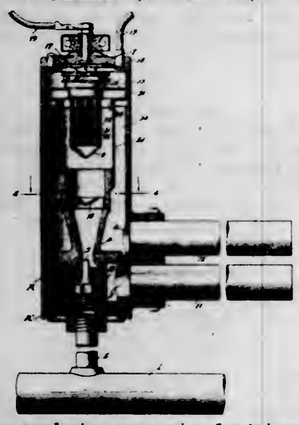
1. A knitting machine comprising a stationary needle cylinder, a revolving cam ring, means for changing the stitch length including a cup on which the cam ring is supported, a series of pins

engaging spiral grooves in the cup and means on the cup engageable by pattern operated



means for rotating the cup to move it vertically of the said pins, substantially as set forth.

1,942,323
GAS ANALYZER
George R. Blodgett, Toledo, Ohio, assignor to Moto Meter Gauge & Equipment Corporation, Toledo, Ohio, a corporation of Delaware
Application January 9, 1931. Serial No. 507,697
2 Claims. (Cl. 23—255)



1. A gas analyzing apparatus for internal combustion engines, comprising a casing, a jet nozzle and means for supplying the exhaust gases to the nozzle in combination with an air supply inlet to the exterior of the nozzle within the casing, a Venturi tube into which the nozzle projects the mixture of air and gases, a catalytic means within a chamber to which the mixture is thus supplied and an indicator controlled by said catalytic means, and an annular return passage around the chamber containing the catalytic means.

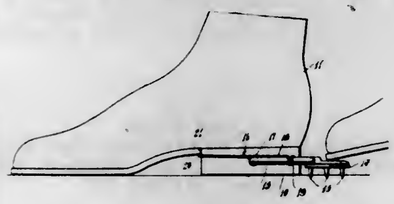
1,942,324
SCISSORS AND METHOD OF MANUFACTURING THE SAME
Julius Brangs, Jr., Solingen, Germany
Application December 7, 1931, Serial No. 579,534, and in Germany August 13, 1930
3 Claims. (Cl. 76—104)

1. A method of manufacturing scissors composed of separable half portions, each including a handle leg and cutting member, which consists in forming both the handle legs with concave end portions and with integral hollow pivot lugs in said concave portions, separately forming both cutting members from a steel band having a sharp edge, and with holes in the ends of the cutting members to fit the hollow lugs of the leg members uniting the blades to the handle legs and thereafter passing a pivot through the lugs whereby the concave surfaces of two cutting members when so united will accommodate said pivot lugs.



3. Scissors having hand legs and cutting blades in separable parts each leg being connected to a blade, the cutting blades being concave longitudinally thereof on their inner meeting surfaces and having holes therethrough, the hand legs having integral hollow lugs extending through said holes into the space between the concave surfaces of the cutting blades and a pivot extending through the lugs.

1,942,325
ELECTRIC CIRCUIT CLOSING ATTACHMENT FOR SHOE HEELS
James A. Davidson, Memphis, Mo.
Original application March 3, 1932, Serial No. 596,625. Divided and this application October 6, 1932. Serial No. 636,606
2 Claims. (Cl. 172—328)

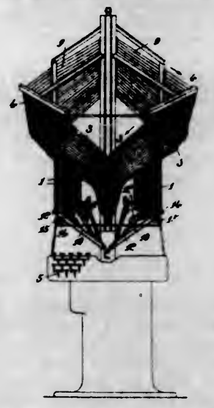


1. A circuit closing device for the purpose stated, comprising a shaft pivotally mounted on a shoe heel, an arm on said shaft, a plate secured to said arm and provided with spaced spurs, and spring means normally urging the arm to inoperative position.

1,942,326
MATRIX-SETTING AND TYPE-LINE-CASTING MACHINE
Julius Dorneth, Konradshohe, near Berlin-Tegel, Germany, assignor to Typograph G. m. b. H., Berlin, Germany
Application February 23, 1933, Serial No. 658,211, and in Germany March 14, 1932
7 Claims. (Cl. 199—4)

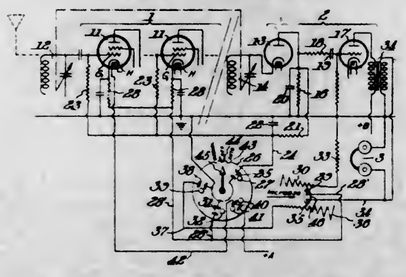
1. A matrix-setting and type-line-casting machine of the type having matrix bars freely suspended vertically on wires and guided vertically in a circuit having a magazine filled with matrix release devices and having a collecting and casting station situated beneath the magazine, means engaged by the lower ends of the matrix bars for

effecting parallel and steady guiding of the matrix bars in a vertical position on their way from the



magazine to the collecting point in front of the casting point.

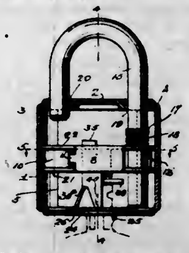
1,942,327
RADIORECEIVER
Frederick H. Drake, Boonton Township, Morris County, N. J., assignor to Aircraft Radio Corporation, Boonton, N. J., a corporation of New Jersey
Application June 24, 1933. Serial No. 677,514
7 Claims. (Cl. 250—20)



1. In a radio receiver, the combination with a radio frequency amplifier, a detector, an audio amplifier, and an output device, of adjustable means for controlling the sensitivity of said radio amplifier, adjustable means for controlling the ratio of the output level at said output device to the radio input at said detector, switch means adjustable to alternative positions to render either of said adjustable means operative and the other inoperative, and a manually-operated control member for simultaneously adjusting both of said adjustable means.

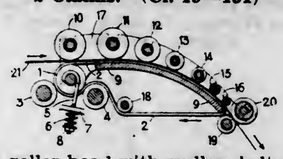
1,942,328
PADLOCK
Samuel R. Fraim, Lancaster, Pa.
Application June 28, 1932. Serial No. 619,744
9 Claims. (Cl. 70—108)

4. The combination in a padlock, of a spring housing consisting of a back plate extending the full length of the lock and having a spring bearing portion; a bent sheet metal bridge piece having two horizontal portions spaced apart by a connecting member, said bridge piece being secured to the plate and forming a spring housing; a U-shaped locking spring located in the housing having short and long arms, the short arm of the spring bearing against the bearing portion



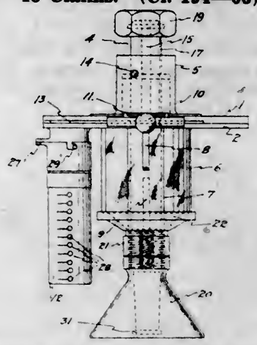
of the back plate; and a shackle located so as to be engaged by the long arm of the spring.

1,942,329
ROLLER HEAD WITH ENDLESS BELTS FOR SPINNING MACHINES
Charles Gégauff, Mulhouse, Haut-Rhin, France
Application November 28, 1932, Serial No. 644,731, and in France December 17, 1931
2 Claims. (Cl. 19—131)



1. In a roller head with endless belts or sleeves for spinning machines, the combination with the endless belts or sleeves of a guide roller located inside thereof, two driving feed rollers outside the belts or sleeves, said guide roller being arranged between the two driving rollers, and means for urging down said guide roller between the two driving rollers to press the belts or sleeves against both said driving rollers.

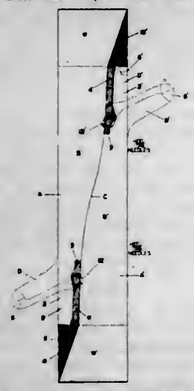
1,942,330
AUTOMATIC COIN-OPERATED LIQUID MEASURING AND DISPENSING DEVICE
Emile Getax, Durban, Union of South Africa, assignor to Automatic Fluid Distributing Company (Proprietary) Limited, Durban, Natal, South Africa
Application December 15, 1931, Serial No. 581,236, and in the Union of South Africa September 18, 1931
15 Claims. (Cl. 194—66)



1. An automatic coin operated liquid dispensing and measuring device comprising a ported plug member attachable by its upper end to a liquid container, a flanged member detachably fixed to said plug member adjacent its upper end, a ported sleeve member having an inte-

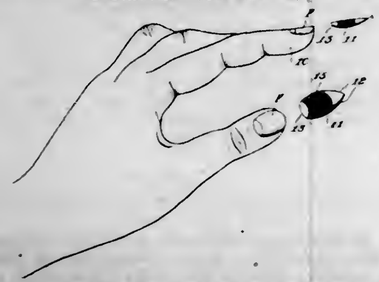
grally formed flange partially rotatable on said plug member, a ring flange secured to said flanged member and rotatably locating the said integrally formed flange on said sleeve between its inner face and a part circular recess in said flanged member, a cylindrical sectioned measuring vessel concentrically surrounding said sleeve member and clamped between a circular recess in the under face of the integrally formed flange on the aforesaid sleeve member, and a similar recess in a washer threaded over the bottom end of the sleeve member and secured by a clamping nut screwed to the bottom end thereof, a bell mouthed guard likewise screwed to the bottom end of the sleeve member and surrounding the bottom spouted end of said plug member, a handle partially rotatable in an arcuate slit between the flange members, the inner end of said handle being of part circular shape to receive a coin to form the connecting means between said handle and said integral flange.

1,942,331
METHOD AND DOUBLE STOCKING BLANK FOR MANUFACTURING STOCKINGS
James L. Getaz, Maryville, Tenn.
Application February 25, 1931. Serial No. 518,231
17 Claims. (Cl. 66—183)



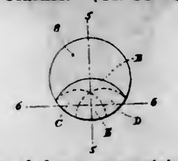
1. A blank for manufacturing stockings comprising a knit tube forming oppositely disposed leg portions arranged side by side and foot portions, and heel portions forming folds attached to said tube adjacent said leg portions.

1,942,332
ARTIFICIAL FINGER NAIL
Anna Hamberg, Los Angeles, Calif.
Application April 12, 1932. Serial No. 604,763
14 Claims. (Cl. 132—1)



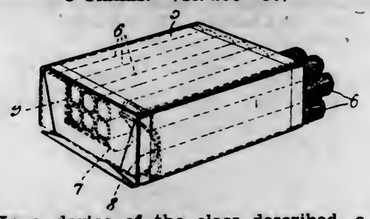
1. An artificial finger nail comprising a member initially shaped to conform to the configuration of the natural nail and having a degree of flexibility substantially equal to the natural nail, securing means interposed between the member and the nail, said member being of transparent composition and having a portion thereof colored.

1,942,333
OPHTHALMIC LENS
Otto G. Haussmann, Philadelphia, Pa.
Application December 4, 1931. Serial No. 579,050
9 Claims. (Cl. 88—54)



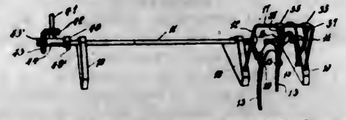
9. A multifocal lens comprising a basic lens having a portion thereof constituting a field of minor focal power, a reading field of major focal power, and fields laterally of said reading field and below the field of minor focal power, the reading field being of sistroidal contour and having its apical angle terminating in the line of demarcation between the field of minor focal power and the lateral fields which lie below it.

1,942,334
ATTACHMENT FOR REMOVING CIGARETTES FROM CIGARETTE PACKAGES
Herman G. Hayes, Twin Falls, Idaho
Application June 16, 1932. Serial No. 617,670
3 Claims. (Cl. 206—56)



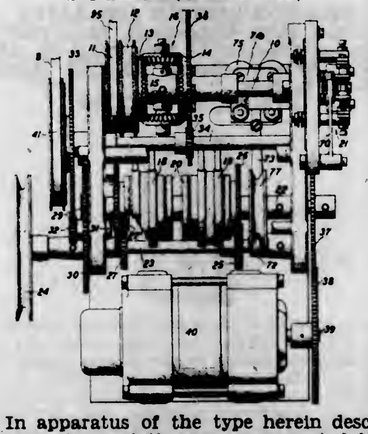
1. In a device of the class described, a flat body portion formed of flexible material and of a size to fit between the lower ends of cigarettes and the package in which the cigarettes are contained, said body portion having a cut out portion formed along one edge thereof only, defining flexible end members extending laterally from the body portion in one direction and adapted to bend transversely causing the central portions thereof to bulge upwardly when the ends of the end members are pressed inwardly, thereby elevating certain of the cigarettes above the remaining cigarettes.

1,942,335
BINDER PACKER ARM AND PITMAN
Julius Hohmann, Morton, Tex., assignor of one-eighth to Wayman Rice and one-eighth to Andrew J. Langrill, Enochs, Tex.
Application January 12, 1933. Serial No. 651,413
8 Claims. (Cl. 56—446)



1. In a grain binder, a suspended link, a shaft having a crank, a packer arm, a bearing removably securing the packer arm to the crank, an interfitting stud and socket between the link and packer arm, and flanges on the link and packer arm normally maintaining the link and packer arm detachably in engagement when the link and packer arm are operatively mounted.

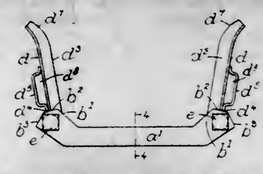
1,942,336
TOTALIZATOR ODDS INDICATOR REMOTE CONTROL MECHANISM
George Alfred Julius and Awdry Francis Julius, Sydney, New South Wales, Australia
Application August 3, 1932, Serial No. 627,372, and in Australia August 19, 1931
2 Claims. (Cl. 172—239)



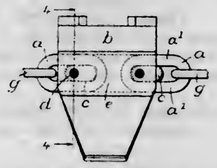
1. In apparatus of the type herein described wherein ratio variations are represented by to-and-fro linear movements of a flexible line, a shaft, a differential gear train on said shaft, a counterweighted pulley fixed to one sun wheel of said train, means for rotating said pulley in correspondence with said to-and-fro linear movements, a constantly rotating member, means including two electromagnetic clutches for applying positive and negative rotation respectively from said constantly rotating member to a Selsyn motor and to the other sun wheel of said differential gear train, a tappet arm fixed to the shaft of said train, a reversing switch operatable by said tappet arm, said switch comprising a rocking member having a tappet roller on each side of its pivot in the path of movement of said arm, a spring plate mounted on said rocking member and carrying a striker head, a latch on the to end of said head and a spring latch lever coacting with said latch to restrain the head in erect position or in either tilted position, contact members carried by but insulated from said head, a flexible contact member mounted on a fixed plate at each side of said head, an electric circuit through one pair of contacts to one of said electro-magnetic clutches, an electric circuit through the other pair of contacts to the other of said magnetic clutches, the contacts on said head having clearance from the flexible contact members when said tappet arm is at neutral position with said head latched in the centre position.

1,942,337
TRACTION BELT
Donald Stuart Kennedy, Longparish, England
Application November 3, 1932, Serial No. 641,067, and in Great Britain November 9, 1931
8 Claims. (Cl. 305—10)

2. A traction belt shoe, comprising a tread portion set across the line of travel of the belt, said tread portion including a plurality of parallel channel-section members, side wings hingedly connected by pins to the ends of said tread portion, and distance pieces provided between the said channel-section members, said distance pieces being traversed by the said pins.



1,942,338
TRACTION BELT
Donald Stuart Kennedy, Longparish, England
Application November 19, 1932, Serial No. 643,477, and in Great Britain December 4, 1931
12 Claims. (Cl. 305—10)



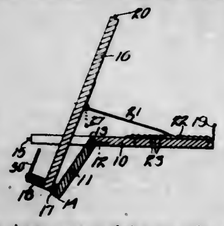
6. In a traction belt mechanism comprising a plurality of shoes, a shoe having a tread portion and side wings, anchorage posts carried by said side wings, sets of chain links extending from adjacent shoes in the traction belt, distance pieces of oblong shape having apertures for mounting on said posts, the apertures in said distance pieces being nearer one end than the other, said distance pieces fitting inside extremital links of said sets and being reversible end to end therein, and flanged retaining plates mounted on said anchorage posts and secured in position thereon, said retaining plates holding said distance pieces against said side wings and also clamping said extremital links thereagainst.

1,942,339
PICTORIAL ART COMPOSITION
Clifford E. Lawrence, Newton Highlands, Mass., assignor to Catherine Blum Lawrence, Boston, Mass.
Application April 28, 1932. Serial No. 608,063
2 Claims. (Cl. 35—12)



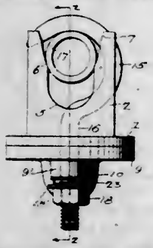
1. A pictorial composition of sheet units comprising a background unit and a plurality of picture units arranged thereon in a manner determinable by the individual composer, said picture units being constructed according to principles of universal perspective.

1,942,340
PORTABLE DESK TOP
Leland S. Madden, Pleasantville, N. J.
Application June 26, 1933. Serial No. 677,701
5 Claims. (Cl. 45—30)



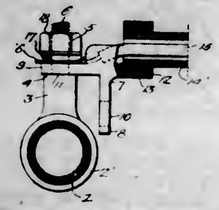
1. A desk top comprising a base, a hinged portion secured to said base normally positioned in the plane of the base, means for limiting the downward swing of said portion, a support member movably mounted on said portion, and means for supporting said member in a plurality of inclined positions, substantially as set forth.

1,942,341
GROUND CLAMP
James Mangin, New Brunswick, N. J., assignor to New Brunswick Electric Supply Company, New Brunswick, N. J., a corporation of New Jersey
Application January 9, 1930. Serial No. 419,598
3 Claims. (Cl. 247—1)



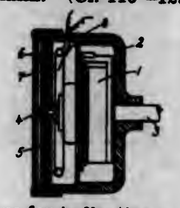
1. A ground clamp for connecting a conductor of an electric conduit to a grounding means, comprising a recessed clamping element having parallel recessed walls for receiving said grounding means, a conduit-receiving element having an opening therein, and a clamping bolt embracing said grounding means and extending between said walls and through said opening for attaching said elements together and to said grounding means.

1,942,342
GROUND CLAMP
James Mangin, New Brunswick, N. J., assignor to New Brunswick Electric Supply Company, New Brunswick, N. J., a corporation of New Jersey
Application August 4, 1930. Serial No. 472,996
2 Claims. (Cl. 247—1)



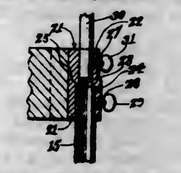
1. A grounding device for connecting a conductor of an electric conduit to a grounding pipe, comprising a member attachable to the pipe and having an extending shank, and a conduit-receiving member attachable to said shank, said last member comprising a socket portion for receiving said conduit, and a pair of relatively thin apertured lugs extending from one side of said socket portion at a substantial angle to each other, whereby said lugs may be selectively positioned over said shank and attached thereto without interference with each other or with said conduit.

1,942,343
DIAL FOR VARIOUS APPARATUS
Raphael Mélik-Minassiants, Paris, France
Application February 25, 1931, Serial No. 518,200, and in France February 26, 1930. Renewed October 31, 1933
1 Claim. (Cl. 116—129)



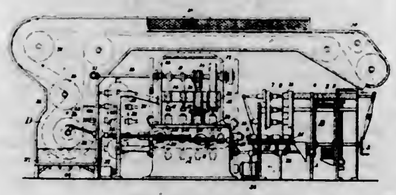
In an apparatus for indicating a constantly variable value, illuminating means, relatively movable indicating members, one of said members being opaque and having a sight opening therein, the other member being translucent and having graduated markings thereon, said translucent member being interposed between the illuminating means and the opaque member whereby the portion of the graduated markings underlying the sight opening is rendered visible by the light penetrating through said translucent member, said translucent member being stationary and said opaque member with the sight opening being movable relatively to said translucent member, said graduated markings being arranged concentric with the axis of movement of the opaque member and said illuminating means being of substantially annular form and underlying substantially the entire graduated portion of the translucent member.

1,942,344
OBSTETRICAL TABLE
Cleveland Payne, Memphis, Tenn.
Application June 1, 1933. Serial No. 673,888
5 Claims. (Cl. 45—50)



1. A knockdown obstetrical table comprising a top structure, a pair of oppositely disposed coupling members anchored to the corners at one end of said structure and formed with enlargements disposed laterally with respect to the sides of said structure, said enlargements being formed with sockets opening at the bottoms of the members, vertical table legs having their upper portions extending into said sockets and being detachably connected to said members, a pair of coupling elements anchored to the corners at the other end of said structure and formed with enlargements disposed laterally with respect to the sides of said structure, the enlargements on said elements being formed with bores, each of two different diameters, vertically disposed patient's leg supports having their lower portions extending into the portions of the bores of smallest diameter and being detachably connected to said elements, and vertical table legs having their upper portions extending into the portions of the bores of largest diameter and being detachably connected to said elements.

1,942,345
MANUFACTURE OF PAPER BOTTLES
Carl Ristow, Berlin, Germany
Application December 22, 1932, Serial No. 648,487, and in France December 30, 1931
9 Claims. (Cl. 93—39)

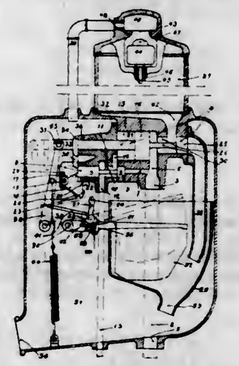


1. A method of mechanically manufacturing paper bottles, comprising winding paper blanks into tubular form and securing them in that form with adhesive, folding one end of each tube into conical form in a horizontal position, erecting the same, forming the conical end of each tube into a bottle-neck shape and at the same time inserting a bottom in the other end of the tube, the tubes being carried along stepwise with their axes vertical during these neck-shaping and bottom-inserting operations and being operated upon from above and from below simultaneously immersing the completely shaped bottles in a horizontal position in an impregnating bath, and drying them after impregnation by moving them through air, power for the winding, sticking, folding, neck-shaping, bottom-inserting, impregnating and drying operations being supplied from one and the same source.

1,942,346
PROCESS FOR THE MANUFACTURE OF CELLULOSE SOLUTIONS
Emil Scheller, Lorsbach, Germany, assignor to Deutsche Gold- und Silber-Scheide-Anstalt vormals Roessler, Frankfort-on-the-Main, Germany, a corporation
No Drawing. Original application November 22, 1929, Serial No. 409,195, and in Germany November 26, 1928. Divided and this application January 29, 1932. Serial No. 589,772
7 Claims. (Cl. 106—40)

1. A process for the preparation of cellulose solutions of relatively high viscosity which comprises the steps of treating cellulose to remove substantially all the uncombined oxygen contained therein, removing substantially all the free oxygen from the interior of the reaction vessel in which the desired solution is to be prepared, preparing said desired solution by adding to the cellulose, in said reaction vessel, a solvent thereof, and treating said cellulose material and said solvent for the purpose of removing substantially all the additional small quantity of free oxygen remaining therein, the entire dissolving operation being carried out in substantially complete absence of free oxygen.

1,942,347
LIQUID DISPENSING APPARATUS
Lucien Tribout, Paris, France, assignor to Société d'Etude de Distributeurs Automatiques S. E. D. A., Paris, France
Application December 29, 1932, Serial No. 649,379, and in France January 4, 1932
2 Claims. (Cl. 221—100)

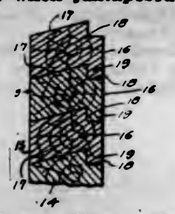


1. In a liquid dispensing apparatus, a gauging container having an air vent and provided with a float valve to close the vent when liquid reaches a predetermined level in the container, in combination with a liquid receptacle mounted below the gauging container and provided with a discharge opening in its lower part, supply and discharge pipes communicating with the lower part of the gauging container through a common connection, said supply pipe leading from a source of liquid under pressure and said discharge pipe leading into the lower receptacle, said discharge pipe having a greater discharging capacity than that of the discharge opening of the lower liquid receptacle, a hinged float mounted in the lower receptacle, a differential pressure-responsive valve mounted in the common connection of the supply and discharge pipes with the gauging container, said differential valve being responsive to the normal pressure of the liquid in the connection to open the supply pipe and to close the discharge pipe, said differential valve operating under an excess of pressure to reverse its position to close the supply pipe and to open the discharge pipe for the discharge of liquid from the gauging container into the lower receptacle, the excess of pressure being built-up by the closing of the air vent in gauging container by the float valve, auxiliary means coacting with the differential valve to operate said valve, and mechanism actuated by the movement of the float in the lower receptacle for controlling the operation of the differential valve.

1,942,348
LOG FOR CABINS AND THE LIKE
Bruce R. Ward, Presque Isle, Maine
Application October 13, 1931. Serial No. 568,598
3 Claims. (Cl. 20—4)

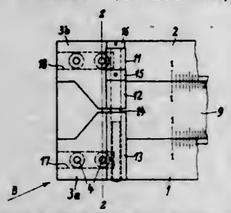
1. As a new article of manufacture, a log having a vertical side face, a pair of parallel top and bottom surfaces extending inwardly from said vertical face, a second pair of parallel top and bottom surfaces extending inwardly from the side face of the log opposite the said vertical face and beyond the longitudinal center of the log and obliquely directed with respect to the said vertical face, and a vertical face connecting

the adjacent top and bottom surfaces, the extent of said vertical faces being the same whereby two of the logs when juxtaposed will have the



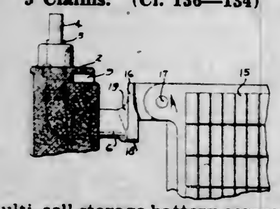
top surface and contacting vertical face of one in firm contact throughout with the corresponding adjacent faces of the other.

1,942,349
SLIDE RULE
Fritz Wömpner, Geroldsgrun, Oberfranken, Germany
Application February 17, 1933, Serial No. 657,285, and in Germany February 29, 1932
4 Claims. (Cl. 235—70)



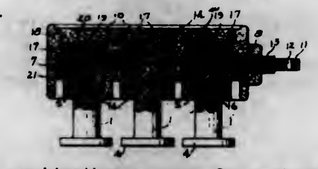
4. A slide rule with divisions on both sides having two outer slide rule members, a metal bridge consisting of two relatively displaceable parts and a bolt for connecting them together, for connecting the two outer members together, screws for fixing each part of the bridge to the slide rule member, an extension on each part of the bridge and two flat metal strips in each outer slide rule member, of which one supports the heads of the fixing screws and the other acts as a bearing surface for the extensions of the bridge members.

1,942,350
STORAGE BATTERY AND METHOD OF MAKING THE SAME
George C. Appel, Robert W. Vicarey, and John D. Wanvig, Jr., Milwaukee, Wis., assignors to Globe-Union Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application December 3, 1928. Serial No. 323,414
9 Claims. (Cl. 136—134)



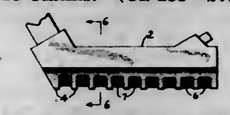
4. A multi-cell storage battery comprising a jar having cells therein, electrodes and an electrolyte in each cell, a premolded cover for the jar, said cover being releasably inter-engaged with and supported on the jar, cell connectors and terminals embedded in the cover below its upper surface and having their lower end portions projecting downwardly therefrom, and fused metallic unions between said cell connectors and terminals and said electrodes whereby the electrodes are electrically connected to the cell connectors and terminals and are also mechanically supported thereby from said cover.

1,942,351
STORAGE BATTERY
George C. Appel, Robert W. Vicarey, and John D. Wanvig, Jr., Milwaukee, Wis., assignors to Globe-Union Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application December 3, 1928. Serial No. 323,415
6 Claims. (Cl. 136—134)



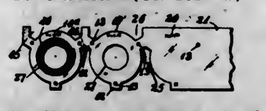
1. In combination, a cover for a storage battery, electrical connecting devices imbedded in said cover beneath the upper surface thereof and posts for making mechanical and electrical connections between electrodes of the battery and said connecting devices, said posts and connecting devices being of such shape that pockets are formed therebetween for facilitating burning the posts to the connecting devices.

1,942,352
WELDING TORCH
James L. Anderson, Tenafly, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application August 2, 1930. Serial No. 472,511
13 Claims. (Cl. 158—27.4)



13. In a welding torch of the type described, a block having numerous flame jet orifices discharging at the face of the block body, and provided with openings in the body adapted to admit air from above between the jets to promote the burning of the envelope gases close to the work.

1,942,353
APPARATUS FOR AND METHOD OF FORMING INTERNAL THREADS BY STAMPING DIES
Kornel Berger, New York, N. Y.
Application November 22, 1932
Serial No. 643,849
17 Claims. (Cl. 153—2)

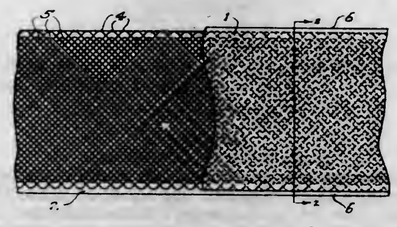


1. A die for the manufacture of a lamp shade frame construction, comprising a bottom block, a punch block, and coacting elements on said blocks to first form a blank and then in an adjacent position to stamp the blank with threads and a still further adjacent position to cut the blank free and bend it into shape.

16. A method for constructing a lamp shade frame member, consisting of stamping blanks from a strip of material substantially of circular

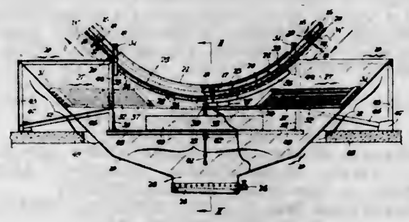
shape with circular holes in their geometrical centers, stamping spiral grooves on the top and bottom of said blanks on the inner annular portion thereof, and bending the threaded portions substantially at right angles to the faces of said blanks.

1,942,354
ARTICLE OF MANUFACTURE
William R. Collings and Donald L. Gibb, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application December 11, 1930
Serial No. 501,611
8 Claims. (Cl. 154—52)



1. As a new article of manufacture, a composite reinforced sheet suitable for diverse uses such as the formation of bags, such sheet including an intermediate unwoven fibrous layer consisting of a multiplicity of strands of spun yarn laid diagonally in two offset series crossing each other, said layer being embedded in adhesive; a protective layer adherent to one side of said intermediate layer, and a second protective layer adherent to the other side of said intermediate layer in offset relation to the other components of the composite sheet.

1,942,355
APPARATUS FOR TREATMENT WITH SOLVENTS
Clarence F. Dinley, Detroit, Mich., assignor to Rex Products & Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application July 30, 1932. Serial No. 627,013
11 Claims. (Cl. 87—6)

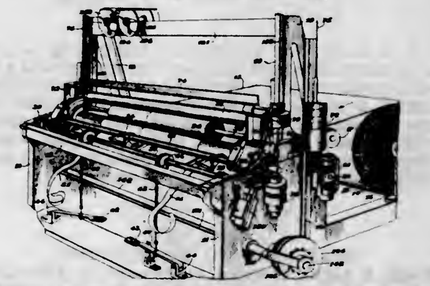


1. Treating apparatus of the character described, for treating things therein with solvent vapor heavier than air, said apparatus being adapted to exclude air and retain the treating medium, but open for the introduction and removal of things to be treated, and comprising a chamber with an overhead conveyor therein for carrying the work therethrough, and condensing means in the chamber, between the conveyor and work carried thereby, for protecting said conveyor from degreasing by the solvent.

1,942,356
ELECTRODEPOSITION OF CHROMIUM
Colin G. Fink, New York, N. Y., and Charles H. Eldridge, Detroit, Mich., assignors, by mesne assignments, to United Chromium, Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Refile for abandoned application Serial No. 734,193, August 26, 1924. This application July 9, 1931, Serial No. 549,800. Renewed October 25, 1933
1 Claim. (Cl. 204—1)

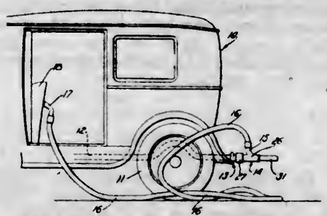
In a process of electrodepositing chromium, bringing the object to be plated to the temperature of the bath prior to beginning the electrodeposition.

1,942,357
SHEET WINDING MACHINE
George E. Gibbs, Attleboro, Mass., assignor to American Reenforced Paper Company, Attleboro, Mass., a corporation of Massachusetts
Application May 16, 1931. Serial No. 537,806
10 Claims. (Cl. 242—66)



2. In a sheet winding machine, in combination, an arbor adapted to have sheet material wound thereupon, means for supporting and rotating the arbor to wind sheet material thereupon, a knife guiding bar, arms for supporting said bar in an inoperative position, and actuating means for moving the arms into and out of position to place the bar on the sheet being wound upon the roll to be carried part way around the roll under the outer coil to facilitate severing the sheet along the bar.

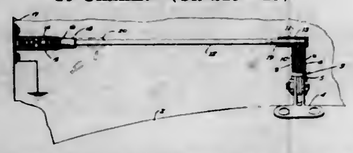
1,942,358
VACUUM CLEANER ATTACHMENT FOR AUTOMOBILES
William L. Grathwol, Stratford, Conn., assignor to The Pootatuck Corporation, Stratford, Conn., a corporation of Connecticut
Application December 1, 1931. Serial No. 578,289
11 Claims. (Cl. 230—95)



1. In an automotive vehicle, a pipe providing a passage for exhaust gas, a ring-like adaptor telescoping with and permanently secured to the pipe at the free end thereof, said adaptor disposed on

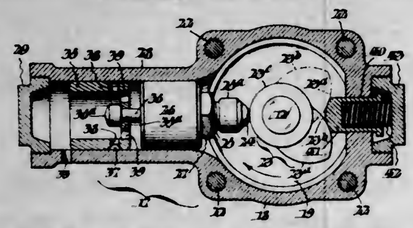
the outside of said pipe so as not to interfere with the passage of gas therethrough, a vacuum creating unit, said unit including a portion to telescopingly receive said adaptor so as not to interfere with the passage of exhaust gas through the exhaust pipe and complemental means on the adaptor and unit whereby the unit may be readily attached to and detached from the end of the exhaust pipe.

1,942,359
WINDSHIELD HEATER
Erwin C. Horton, Hamburg, and Henry Hueber, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application November 13, 1929
Serial No. 406,827
10 Claims. (Cl. 219—19)



7. A heater for windshields comprising a pair of supports mounted adjacent the windshield and connectible to the opposite sides of an electrical circuit, a resistance element normally carried on one of said supports independently of the other and movable to the other of said supports, said element constituting a circuit closing switch detachable at will from the latter support.

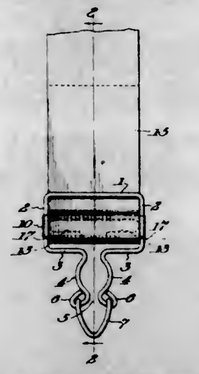
1,942,360
BELL RINGING MECHANISM
Ralph A. Light, Cynwyd, and Joseph W. Price, Jr., Philadelphia, Pa., assignors to The United States Metallic Packing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 5, 1933. Serial No. 650,242
8 Claims. (Cl. 121—2)



1. Ringing mechanism for locomotive bells and the like comprising a rotary cam affixed to the swinging axis of the bell, said cam having a radial lobe with oppositely-sloped side edges; and a reciprocating actuating member coacting, during successive power strokes, alternately with the oppositely-sloped edges of the cam to impart swinging movement to the bell first in one direction and then in the other.

1,942,361
SLIDE BUCKLE
Henry G. Littlejohn, Chicago, Ill., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application February 14, 1933. Serial No. 656,728
5 Claims. (Cl. 24—73)

1. In a slide buckle for association with a looped strap, having a body portion provided with an upper cross bar and parallel depending side bars, a transversely arranged strap-engaging and holding bar provided with laterally extending end pieces which are bent around and rigidly secured to said side bars thereby holding the strap-engaging and holding bar immovably in place, said



strap-engaging and holding bar including an upper continuous member spaced apart from said upper cross bar and a lower substantially parallel divided member spaced apart from said continuous member and forming therewith a slot to permit the passage of a strap.

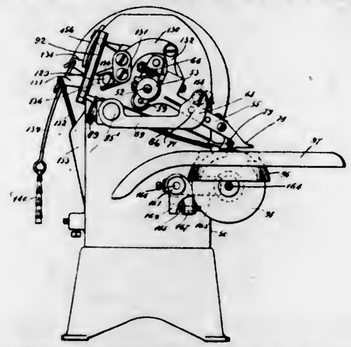
1,942,362
BOX COVERING METHOD AND PRODUCT
Frank Rodgers Neely, Allentown, Pa., assignor to A. H. Balliet Corporation, Allentown, Pa., a corporation of Pennsylvania
Application March 11, 1932. Serial No. 598,129
15 Claims. (Cl. 93—54)



1. The steps in the method of wrapping a box having lateral walls of unequal height, which consists in applying a covering to the outer face and a portion of the inner face of a higher lateral wall and in extending a portion of the lateral wall covering along the top of a lower lateral wall.

1,942,363
FOLDING MACHINE
Andrew R. Ridderstrom, Nahant, Mass., assignor to Prime Manufacturing Company, Lynn, Mass., a corporation of Massachusetts
Application May 3, 1932. Serial No. 608,919
32 Claims. (Cl. 12—54)

1. A machine for folding the edge of a sheet of flexible material comprising in combination, a plow for forming an upstanding edge on the material, a wiper, means imparting an oscillatory motion to said wiper to fold a portion of said edge down on said sheet, a fold presser disposed forwardly of said wiper, means imparting to said fold presser a forward right-line motion and a rearward oscillatory motion in a plane at an angle to the plane of motion of said wiper, a feeder disposed rearwardly of said wiper, and means imparting to said feeder a forward right line motion when said fold presser is making its rearward oscillatory movement and a rearward oscillatory

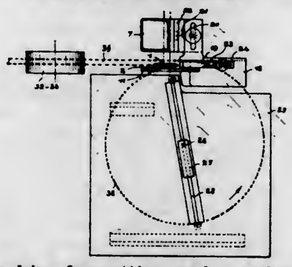


motion when said fold presser is making its forward right-line movement.

1,942,364
WELDING ELECTRODE
Arnold C. Rood, Boston, Mass., assignor to Una Welding & Bonding Company, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application June 1, 1926, Serial No. 113,098. Renewed May 9, 1933
17 Claims. (Cl. 219—8)

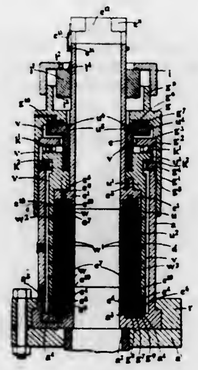
8. A welding electrode for building up surfaces of joining metals containing carbon, comprising, in combination, a steel rod and a coating disposed substantially uniformly on said rod, said coating comprising carbon in an amount sufficient to provide weld metal of approximately the same hardness as the metal to be built up or welded, and one or more active deoxidizing agents also associated with said rod, said deoxidizing agents being selected from a group consisting of titanium, vanadium and zirconium and their ferrous alloys, and being sufficient in amount to substantially prevent the gasification of carbon in the molten weld metal but not substantially in excess of that amount, whereby weld metal of the desired carbon content may be formed.

1,942,365
MACHINE FOR CUTTING OR UNROLLING THONGS OF LEATHER OR OTHER MATERIAL
Henri Hippolyte Rozier, Moulins - sur - Allier, France, assignor to Manufacture de Chaussures de Moulins Societe Anonyme, Moulins-sur-Allier, France
Application January 6, 1933, Serial No. 650,463, and in France March 16, 1932
7 Claims. (Cl. 164—37)



1. A machine for cutting and uncoiling a continuous thong from the periphery of a piece of leather or other material, comprising the combination, with cutting means supported upon a stationary frame and an adjustable stationary guide upon said frame spaced from said cutting means upon one side of the same, of a pair of guide rollers supported on said frame and disposed adjacent the other side of said cutting means in order to grip and continuously displace said piece of material toward said stationary guide, and horizontally disposed guide members mounted upon said frame adapted to support said material, which guide means provides an axis about which said material may rotate, and is independently angularly adjustable at will in a horizontal plane to make various angles with respect to the cutting means in order to solely thereby determine the width of the thong being cut.

1,942,366
CASING HEAD EQUIPMENT
Lewis Mervyn Cecil Seamark, St. Just, England
Application September 20, 1930, Serial No. 483,290
and in Great Britain March 29, 1930
44 Claims. (Cl. 166—14)

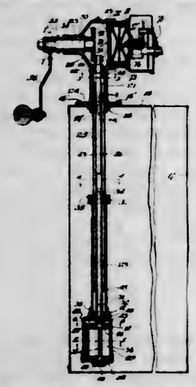


16. A casing head equipment comprising a casing, a massive elastic sleeve within the casing, means by which the massive elastic sleeve is mounted with its respective ends held, the said ends being capable of relative axial movement under pressure external to the sleeve, and means for the application of pressure external to the sleeve.

1,942,367
HAND PUMP FOR GREASES, ETC.
Warren P. Valentine, Line Lexington, Pa., assignor to National Transit Pump & Machine Company, Oil City, Pa., a corporation of Pennsylvania
Application September 28, 1931
Serial No. 565,677
10 Claims. (Cl. 221—80)

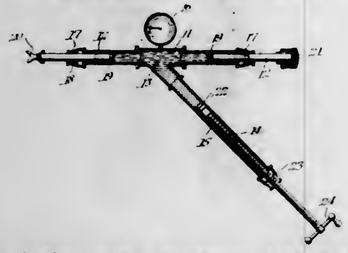
1. In a grease pump of the character indicated, a housing having a grease inlet and a grease outlet, an inlet tube connected at its outlet end into the said grease inlet, an operating shaft of non-circular section having an intermediate portion in the said grease inlet, bearings for the shaft at the housing end providing grease passage between the shaft and the bearings, a rotor pump mounted on the inlet end of the tube discharging into the tube and a drive shaft for the

rotor pump having an upper non-circular portion fitting the non-circular section of the op-



erating shaft, said drive shaft comprising operative connection between the pump and shaft through the tube.

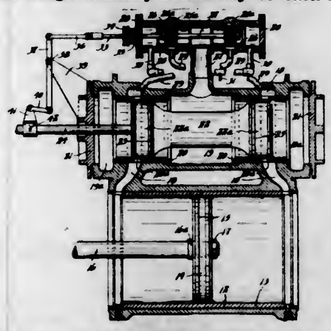
1,942,368
HYDRAULIC PEDAL DEPRESSOR
Arthur E. Wilkoff, Niles, Ohio, assignor to Youngstown Steel Car Corporation, a corporation of Ohio
Application October 27, 1928. Serial No. 315,553
9 Claims. (Cl. 265—47)



3. A brake pedal depressing apparatus arranged to depress the brake pedal and indicate the degree of the depressing force, comprising in combination, a case containing fluid and having two oppositely extending cylinders, a piston in each cylinder and a piston rod extending from each cylinder, one rod adapted to engage an automobile brake pedal, the other rod adapted to bear against a stationary part of the automobile, a third cylinder extending from the case at a sharp angle to the two oppositely extending cylinders so as to avoid interference with the cowl surrounding the operating pedals; a piston in the angle cylinder, means for forcing the last named piston inward to cause fluid pressure against the other two pistons and force their oppositely extending rods outward, and a fluid pressure gauge mounted on the case and communicating with the interior thereof.

1,942,369
AUXILIARY DISTRIBUTING VALVE FOR LOCOMOTIVES
Hartwell T. Doughty, St. Paul, Minn.
Application November 2, 1928. Serial No. 316,684
6 Claims. (Cl. 121—142)

1. An auxiliary valve for a steam engine having in combination with the main valve and main valve casing having ports leading to the steam engine cylinder, an auxiliary valve casing, an auxiliary valve movable in said casing, a valve rod for said auxiliary valve reciprocated in synchronism with said main valve, said auxiliary valve comprising end sections secured to and movable with said valve rod and a central section movable longitudinally relatively to said rod and



end sections, said auxiliary valve having ports leading to said engine cylinder controlled by said auxiliary valve, the movement of said central movable section varying the action of said auxiliary valve relatively to said ports and means permitting movement of said movable sections at slow speeds of said engine and retarding movement thereof at high speeds.

1,942,370
CHANGEABLE HEAD
Emanuel Jacobson, New York, N. Y.
Application March 21, 1930. Serial No. 437,636
25 Claims. (Cl. 35—16)

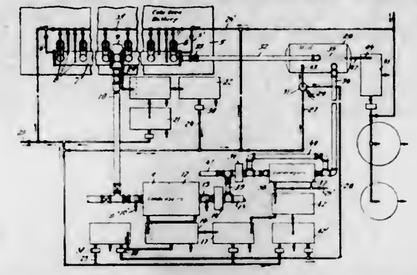


1. A head ready for use comprising a rigid base having spaced depressions forming pockets therein, pasty plastic material in the pockets and extending outwardly therefrom, and a mobile cover for said material impervious to said material and adapted to conform substantially to any contour which may be given to said material.

1,942,371
METHOD OF DISTILLING TAR
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application March 23, 1928. Serial No. 263,990
8 Claims. (Cl. 202—30)

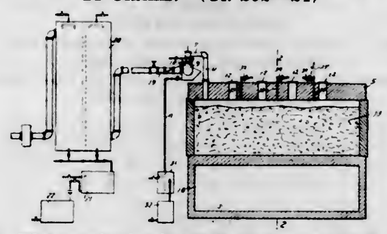
1. The method of distilling heavy hydrocarbon material in liquid form by the heat of hot coal distillation gases resulting from the distillation of coal, which comprises separately collecting the gases from a controlled period of the coal distillation operation, bubbling them at a temperature above the dewpoint of oil vapors therein up

thru a body of the hydrocarbon material, thereby volatilizing constituents of the material and producing a pitch residue of regulated free car-



bon content, and thereafter cooling the resulting gases and vapors to condense oils therefrom which contain both distillate oils and oils condensed from the coke oven gases.

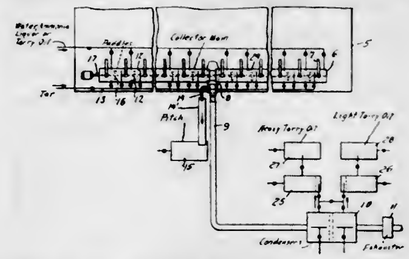
1,942,372
DISTILLATION OF TAR OR PITCH
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application June 25, 1929. Serial No. 373,646
14 Claims. (Cl. 202—24)



1. The method of distilling tar or pitch and of coking coal in a by-product coke oven, which comprises charging the coal into an incandescent coke oven and, after coal has been so charged and before the coking of the coal in the oven is completed, introducing the liquid to be distilled into the upper portion of the coke oven, heating the liquid and coal so as to distill the liquid and coke the distillation residue and simultaneously coke the coal in the oven, and withdrawing vapors resulting from the distillation and coking of the liquid in admixture with gases and vapors resulting from the coking of the coal.

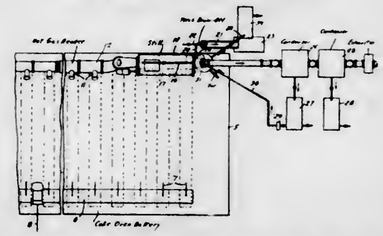
1,942,373
METHOD OF PREPARING CREOSOTING COMPOSITIONS
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application August 30, 1929. Serial No. 389,344
3 Claims. (Cl. 202—66)

1. The method of producing a tarry oil suitable for use as creosoting composition, which comprises distilling off from coal tar a large part of the volatile oils contained therein by spraying the coal tar into hot fresh coal distillation gases from a coke oven or retort plant at the temperature at which such gases normally enter the collector main of the plant, regulating the spray of tar so as to greatly enrich the gases and effect partial cleaning thereof to produce a gas-vapor mixture containing entrained pitch particles in a ratio of pitch to pitch plus oil vapors of about one-fifth of the usual ratio thereof in hot fresh coal distillation gases, cooling said mixture to



condense oils, thereby forming from the condensed oils and the entrained pitch particles a tarry oil suitable for use as creosoting composition.

1,942,374
PROCESS OF DISTILLING TAR AND RECOVERING OILS WITH APPARATUS THEREFOR
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application August 31, 1929. Serial No. 389,644
13 Claims. (Cl. 202—30)

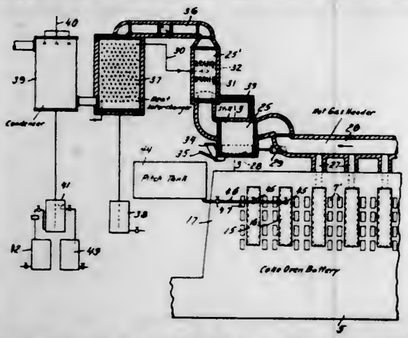


1. The method of distilling tar and recovering high boiling resinous or greasy constituents, which comprises bringing coal tar into direct contact with hot coal gasification gases whereby the tar is distilled to pitch of a high melting point and resinous or greasy constituents are volatilized from the tar, bringing the gases and vapors resulting from the distillation into direct contact with a regulated quantity of oil to effect only partial cooling of the gases and vapors whereby resinous and greasy constituents are condensed and separated from the gases and remaining vapors, and subsequently cooling the resulting gases and vapors to separate oils therefrom.

1,942,375
METHOD OF COAL AND TAR DISTILLATION
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application December 11, 1929
Serial No. 413,253
3 Claims. (Cl. 202—5)

2. The method of operating a coke-oven battery which comprises coking coal in a portion of the ovens of the battery to form a coke from coal, coking pitch in another portion of the ovens to separately form pitch-coke, withdrawing the hot gases resulting from the coking of the coal and the hot gases resulting from the coking of

the pitch, combining the gases and cooling them to separate a combined tar including constituents



resulting from the distillation of pitch and constituents resulting from the distillation of coal.

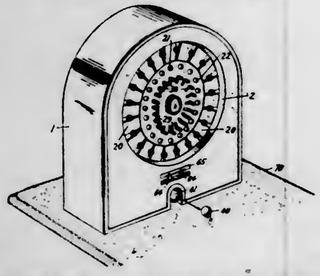
1,942,376

APPARATUS FOR SIMULATED CARD GAMES

Roland Stavely, Ernest Matthew Robinson and Percival Arthur Robinson, Sydney, New South Wales, Australia; said Ernest Matthew Robinson and said Percival Arthur Robinson, assignors to said Stavely

Application March 4, 1932, Serial No. 596,726, and in Australia March 9, 1931

5 Claims. (Cl. 273—127)



1. Card playing apparatus and associated score indicating means comprising a housing, a rotatable flanged disc within said housing, a series of cards on the face of said disc, a series of spring controlled indicators one for each said cards and slidably and oscillatably mounted on the rear of said disc, the said indicators having pointed ends projecting through openings in the flange of said disc and also having a latch hook to engage with said flange, resetting pins for said indicators projecting through openings in the said disc, a spring controlled plunger operable by impact, and means associated with said plunger whereby upon operation the indicator then opposite the plunger will be operated to release the latch hook to permit the indicator to slide in the opening, to indicate, through a peep-hole in said disc, the particular card to which said indicator relates.

1,942,377

FRICTION DRAFT GEAR

Albert F. Stuebing, Scarsdale, N. Y.

Application June 17, 1930. Serial No. 461,745

14 Claims. (Cl. 213—32)

14. A draft gear for railway cars involving a load sustaining column member having friction surfaces, movable elements having friction surfaces respectively cooperable with said surfaces of the column member, said elements having wedging faces inclined in the same direction with respect to the longitudinal axis of the gear, wedging means having faces respectively cooperable with the wedging faces of the elements for actuating said elements, and spring means opposing movement of said elements, the cooperating friction surfaces of one of said elements and column member being so formed with respect



to the cooperating friction surfaces of another of said elements and column member as to produce a greater friction force between one of the sets of said cooperating friction surfaces than between another of said sets, and the inclination of the wedging faces of the elements and the wedging means being such that the elements cooperate with the latter to maintain the difference in friction forces between said sets of cooperating friction surfaces.
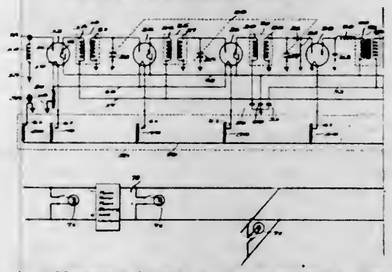
1,942,378

RADIORECEIVER

Lysle G. Tatro, Decorah, Iowa, assignor to H. B. Montgomery, Decorah, Iowa

Application March 29, 1930. Serial No. 440,076

6 Claims. (Cl. 250—27)



1. A "filament loop" radio receiving system, said system comprising a source of direct current, power conductors leading therefrom, a radio receiver embodying thermionic vacuum tubes, connections from said power conductors to the filaments of said vacuum tubes for energizing said filaments from said source of direct current, said filaments, connections, conductors and source of direct current forming a closed loop coupled to said receiver essentially by way of the direct inclusion of said filaments, as distinguished from separate capacity coupling, said system having its radio-frequency wave intercepting means constituted substantially entirely by said filament-including closed loop.

1,942,379

FLUID CURRENT CONVEYER

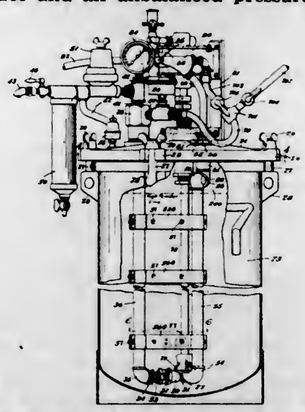
Wayne B. Thompson, Winchester, Mass., assignor to Spraco, Inc., Somerville, Mass., a corporation of Massachusetts

Application April 14, 1930, Serial No. 444,084

Renewed April 29, 1933

9 Claims. (Cl. 302—53)

1. In a fluid current conveyer, the combination with a pressure chamber which is partially filled with material to leave a space above it, a discharge conduit having a balanced pressure portion within said chamber and provided with an intake located in a deep part of the body portion of the material and extending therefrom to said space and an unbalanced pressure portion



spaced from said first portion extending from within said space to a point of use outside the chamber, and fluid current means for causing material to enter the intake and for placing the chamber under pressure, of a vent for the chamber communicating exteriorly thereof with the unbalanced pressure portion of the conduit.

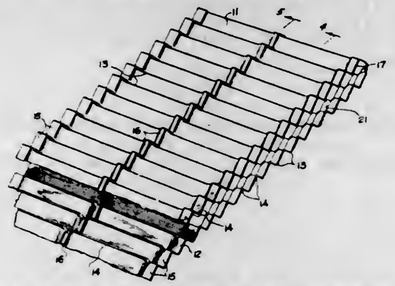
1,942,380

RADIATOR

Joseph Askin, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y.

Application January 24, 1933. Serial No. 653,273

2 Claims. (Cl. 257—130)



1. A cellular core for radiators comprising a plurality of imperforate ribbons joined to each other along their margins and spaced from each other intermediate said margins to form water passages, said ribbons being formed into a zig-zag conformation having alternate crests and receding portions, the marginal portions of said ribbons being elevated above said intermediate portions, a central offset portion in said intermediate portion, said offset portion also being elevated above said crests and being continuous throughout the length of said ribbons, and spacer ribbons interposed between adjacent water passage ribbons to space the same, said spacer ribbons being formed in zig-zag conformation and being provided with crests adapted to contact alternate projecting portions of adjacent water ribbons, said contact being continuous from said marginal portions to said central offset portion, said contact being interrupted at said central portion to form vertical flues.

1,942,381

FLUID CLEANING APPARATUS

Alvin H. Benesh, St. Paul, Minn., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Original application February 3, 1930, Serial No. 425,623. Divided and this application September 18, 1931. Serial No. 563,621

5 Claims. (Cl. 210—175)



1. In a fluid cleaning apparatus for traveling water screens and the like, a supply pipe; and two sets of spaced fluid projectors for discharging fluid from said pipe, the projectors of one set being staggered relative to those of the other set and arranged to discharge fluid in a plane which crosses that of the other set, whereby the surface to be cleaned is subjected to the action of two separate sheets of cleaning fluid which impinge upon it in different directions.

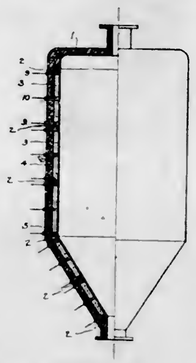
1,942,382

ELECTRICALLY HEATED APPARATUS

Edgar C. Britton, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application October 23, 1929. Serial No. 401,744

4 Claims. (Cl. 219—38)



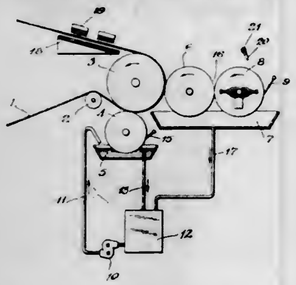
1. In an apparatus capable of being electrically heated, comprising a container for a material to be heated, a plurality of layers of suitable heat conducting dielectric material placed edge to edge thereon and each layer having embedded therein but out of contact with said container a resistor element.

1,942,383

METHOD FOR COATING PAPER AND THE LIKE

Charles A. Dickhaut and Charles C. Willis, New Brunswick, N. J.

Application May 10, 1932. Serial No. 610,338
15 Claims. (Cl. 91—68)



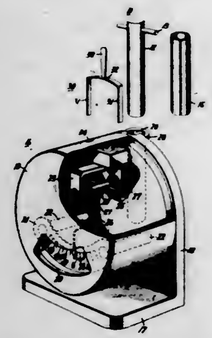
1. A method of roll coating which comprises applying an excess of coating to the material by means of one roll then removing all the coating from the surface of the web by a second roll, removing the excess coating from the second roll and reapplying the coating remaining on the second roll to the material.

1,942,384

METHOD OF AND INSTRUMENT FOR MEASURING SURGE CURRENTS

Clifford M. Foust, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application April 1, 1933. Serial No. 663,978
17 Claims. (Cl. 175—183)



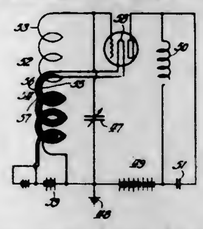
1. Apparatus for measuring the maximum value of an electric current surge that flowed through a conducting body, said apparatus comprising a magnetic body possessing a high degree of magnetic retentivity and adapted to be so positioned adjacent the conducting body that the magnetic flux surrounding the latter during the current surge magnetizes it, means for substantially screening said magnetic body from the magnetic flux during that portion of the current surge period when the magnitude of the magnetic flux surrounding the conducting body is below a predetermined value, and an instrument calibrated with said magnetic body and responsive to the magnitude of the magnetic flux retained by it after such current surge is over.

1,942,385

RADIO RECEIVING CIRCUIT

Raymond G. Piety, New York, N. Y., assignor to Bremer-Tully Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application April 12, 1928, Serial No. 269,427
Renewed January 28, 1931
6 Claims. (Cl. 179—171)



1. A vacuum tube circuit including a thermionic tube having an input and an output circuit, an inductive element included in one of said circuits having a multiple winding of three strands, a source of filament current supply associated with the thermionic element of said tube through strands of said winding, and a source of C-battery supply associated with the grid element of said tube through strands of said winding.

1,942,386

PROCESS FOR PRODUCING DIPHENYL MONO-SULPHONIC ACID

Wesley C. Stoesser, Midland, Mich., and Robert F. Marschner, State College, Pa., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application June 2, 1932
Serial No. 615,030
6 Claims. (Cl. 260—159)

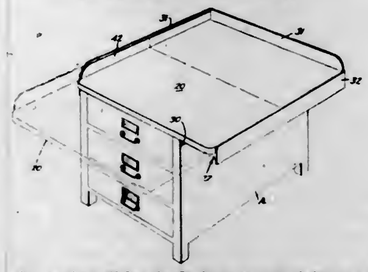
1. In a process for sulphonating diphenyl, the step which consists in reacting diphenyl with sulphuric acid at a temperature between about 100° and about 175° C. under sub-atmospheric pressure.

1,942,387

DESK

Carl F. Wolters, Marietta, Ohio, assignor to Remington Rand Inc., Buffalo, N. Y.

Application March 17, 1931. Serial No. 523,330
12 Claims. (Cl. 45—6)



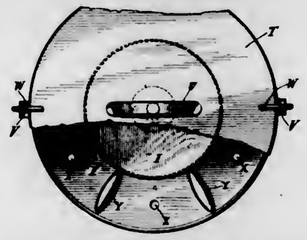
12. An extensible desk top comprising a sheet metal base plate, a top member of sheet metal having depending side flanges slidable on the base plate, a second top member on the base plate between said base plate and first top member in one position of said first top member on the base plate, said second top member having a sheet metal plate and outwardly facing channel members on the side edges of said plate for supporting said second top member on the base plate in spaced parallel relation in one position and also having guiding cooperation with the side flanges of said first top member in said position, said first top member being slidable into an extended position relative to said base plate to expose said second top member, and cooperating means between the base plate and top members operable in the sliding movement of the first top member to an extended position relative to the base, to elevate said second top member into the plane of the first top member.

1,942,388

HOSE REEL AND SIMILAR DEVICE

James W. Ash, Middletown, Ohio, assignor to The Miami Cabinet Company, a corporation of Ohio

Application March 22, 1930. Serial No. 438,180
1 Claim. (Cl. 242—86)



In a hose reel, a support, a vertical hollow spindle mounted on said support, a drum carried on said support, an opening in the bottom of said drum through which the spindle passes, a removable top on the opposite end of said drum, a pin secured to the underside of said top and extending into the top of said spindle whereby said drum may be freely rotated on said spindle, a casing spaced apart from said drum forming a receptacle for a hose, a bottom for said receptacle portion attached to said casing and to the bottom of the drum, a movable handle attached to said casing, the top of said casing extending above the top of the drum and a cover adapted to engage the top of said casing to enclose the drum and the hose receptacle portion.

1,942,389

PROCESS FOR MAKING BENZOIC ACID

Courtney Conover, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application June 18, 1928
Serial No. 286,487
22 Claims. (Cl. 260—108)

1. A process for making benzoic acid which comprises heating a mixture of molten phthalic anhydride and a decarboxylating catalyst in the presence of water.

1,942,390

PROCESS FOR MAKING BENZOIC ACID

Courtney Conover, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application November 15, 1929
Serial No. 407,577
14 Claims. (Cl. 260—108)

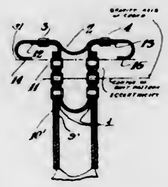
1. A process for making benzoic acid, which comprises reacting molten phthalic anhydride and water in the presence of a decarboxylating catalyst until substantially all of the phthalic anhydride has been converted into benzoic acid, and subsequently separating the benzoic acid.

1,942,391

AIRPLANE WING SPAR

Roy G. Miller, Farmingdale, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc., Buffalo, N. Y., a corporation of New York

Application April 26, 1932. Serial No. 607,545
5 Claims. (Cl. 244—31)



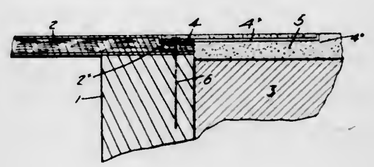
1. A truss construction comprising a pair of U-shaped beams with cap strips riveted to and covering the open end thereof, a plurality of diagonal bracing elements extending between said beams and connected directly to each other and to said beams, each of said connections being adapted to be effected by a single rivet pattern, said beam and cap strip having the extremities of their contours curved.

1,942,392

WALL BOARD JOINT

David McChesney, Kirkland Lake, Ontario, Canada

Application September 9, 1932. Serial No. 632,427
1 Claim. (Cl. 72—101)



The combination with a supporting structure of a wall board having its inner face recessed at its edge, a metallic plate counter sunk in the recess and provided with a flexible extension integral therewith and formed to furnish a key lock when embedded, securing means extending through that portion of the strip counter sunk in the recess through the wall board and into the supporting structure, a wall abutting the supporting structure, a plaster coat for the surface of the wall in which the aforesaid flexible extension is embedded, such coat filling the recess, the surface thereof being flush with the surface of the wall board.

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Patents Nos. 1,942,393 to 1,943,278

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OF THE
United States Patent Office

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January 9, 1934

Trade-Marks	246—No.	209,192 to No.	209,437, inclusive.
T. M. Renewals	40		
Labels	16—No.	43,090 to No.	43,105, inclusive.
Prints	10—No.	14,497 to No.	14,506, inclusive.
Reissues	4—No.	19,041 to No.	19,044, inclusive.
Designs	35—No.	91,309 to No.	91,343, inclusive.
Patents	886—No.	1,942,393 to No.	1,943,278, inclusive.
Total	1,237		

Actions Under Rule 41

(Order No. 3254)

U. S. Patent Office, *Washington, Oct. 7, 1933.*

Order 3154, June 9, 1930, is hereby superseded by the following:

Where an application is filed with claims specific to each of *more* than three species and a claim generic to all of them the Examiner, in the first action, will cite the art resulting from a cursory examination, require division and that the applicant limit his specific claims to no more than three species. A complete search upon the merits will not be made until the number of species specifically claimed is thus limited. Prompt compliance with this requirement will result in making special the next action by the Examiner.

Where an application is presented with claims specific to no more than three species and a claim generic to all of them, and the Examiner, after a *complete* search, holds that the generic claim is not patentable, he will in his first action reject the generic claim and require the applicant to elect the one species he prefers to prosecute, action on the merits of the specific claims not being required.

The search to be *complete* must primarily cover the fields of search for all of the claimed species to develop not only the best art for the generic claim but also the best art for each of the claimed species. If such a search discloses a full anticipation of the generic claim no further search is needed; if it does not, the search should be extended to any other fields which the Examiner may consider it necessary to explore to anticipate the generic claim.

A *complete* search of the prior art as above defined must be made even though the generic claim is open to rejection on formal or technical grounds. In the event that no anticipatory art is found, the Examiner, when making an action rejecting the generic claim on some other ground than prior art, will state that a complete search of the prior art has disclosed no anticipating reference.

If the generic claim is rejected as being unpatentable for any reason the applicant will be required, in his response to this action, to elect for prosecution a single species even though he traverses the rejection of the generic claim or amends it with a view to overcoming the rejection. If a generic claim is allowed, either by the Examiner or by an appellate tribunal, the applicant may be allowed claims to any or all of the three species elected, if they be patentably distinct.

CONWAY P. COE,
Commissioner.

Adjudicated Patents

(C. C. A. Mich.) Wigginton patent, No. 1,090,185, for temporary binder, claims 14 and 15 *Held* invalid. *Remington-Rand, Inc.*, v. *Mastercraft Corporation*, 67 F.(2d) 218.

(C. C. A. Mich.) Wigginton patent, No. 1,410,788, for binder, claims 1 to 13 *Held* not infringed. *Id.*

(C. C. A. Mich.) Wigginton patent, No. 1,494,519, for temporary binder, claim 5 *Held* not infringed. *Id.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,775,085, W. M. Black, Roof covering, decided July 28, 1933, claim 1.

Pat. 1,851,928, R. A. Wilkins, Alloy, decided December 9, 1933, claim 1.

Pat. 1,856,020, Heinrich Bertsch, Method for increasing the wetting and penetrating capacity of treatment liquids, decided December 8, 1933, claims 1, 2, 3, 4, 5, 6, and 7.

Pat. 1,910,277, F. K. Bessenberger, Method of cleaning vulcanizing molds, decided December 14, 1933, claims 1, 2, 3, and 4.

Pat. 1,914,940, Roland Chilton, Cooling of spark plugs and the like, decided December 12, 1933, claims 24 and 25.

Condition of Applications Under Examination at Close of Business December 22, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 41,818; Trade-Mark Division, 1,022. Oldest new case, August 11, 1933; oldest amended, August 14, 1933.

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Sept. 5	Sept. 5	467
6708	2. HERRMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Aug. 28	Aug. 28	720
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Sept. 23	Sept. 27	600
7063	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Sept. 15	Sept. 21	364
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Sept. 25	Sept. 27	482
4699C	6. LEWERS, A. M., Carbon Chemistry	Aug. 26	Sept. 6	964
5725	7. JARBOE, C. G., Optics; Photography	Sept. 8	Sept. 8	856
3267	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov. 1	Nov. 3	263
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 17	Oct. 16	472
6813	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Sept. 11	Sept. 19	477
5057B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Aug. 23	Aug. 25	573
7701	12. HENRY, C. O., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	Sept. 13	Sept. 13	512
8090	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Oct. 9	Oct. 9	476
3997	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Oct. 27	Oct. 27	315
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 10	Sept. 10	1,101
5612	16. SPENCER, C. J., Telegraphy; Telephony	Oct. 12	Oct. 14	320
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Aug. 24	Aug. 25	832
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Oct. 26	Oct. 24	290
4098	19. KENNEDY, A. B., Furnaces and Stoves; Fuel Burners	Aug. 18	Aug. 18	1,021
6813	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Nov. 3	Oct. 27	192
7723	21. THOMPSON, T. J., Textiles; Cloth Finishing	Aug. 15	Aug. 15	333
5734	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Aug. 25	Aug. 25	849
7862	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Aug. 25	Aug. 24	492
5063	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 25	Sept. 25	510
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 24	Aug. 24	908
8096	26. ADAMS, W. M., Electricity, Generation; Motive Power	Oct. 31	Nov. 3	294
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Sept. 23	Sept. 23	450
4638	28. BENSON, A. R., Internal-Combustion Engines	Aug. 23	Aug. 23	846
5083	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Oct. 14	Oct. 10	252
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Sept. 19	Sept. 19	587
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Aug. 24	Aug. 24	1,066
4096	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 11	Oct. 17	387
6098	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Sept. 5	Aug. 31	792
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Aug. 22	Aug. 23	948
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Sept. 8	Sept. 8	728
7624	36. McFAYDEN, A. D., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Aug. 11	Aug. 14	1,194
5896	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 3	Sept. 27	399
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Walls; Hydraulic Cement and Lime; Roads and Pavements.	Aug. 24	Sept. 2	630
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 12	Sept. 12	703
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Sept. 15	Sept. 20	938
6062	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Aug. 31	Sept. 11	420
5882	42. CUTTING, H. O., Electric Signaling	Aug. 24	Aug. 23	847
4696B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Aug. 28	Aug. 26	1,027
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Aug. 23	Aug. 22	748
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Nov. 10	Nov. 15	241
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Oct. 2	Oct. 3	379
7900	47. BARKER, H., Clutches; Brakes; Motors	Aug. 30	Aug. 29	956
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Sept. 1	Aug. 30	600
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Aug. 28	Aug. 23	690
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Aug. 26	Aug. 26	1,003
5628	51. BACKUS, C. D., Radiant Energy	Sept. 28	Sept. 28	712
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Sept. 29	Oct. 7	462
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Oct. 6	Oct. 11	372
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Sept. 5	Sept. 5	737
6887	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Sept. 28	Sept. 28	298
	{Designs	Nov. 24	Dec. 1	305
4725	56. PORTER, T. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Sept. 11	Sept. 6	738
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 2	Oct. 5	280
5095	58. DOWELL, E. F., Abrading	Oct. 17	Oct. 17	234
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Sept. 11	Sept. 13	605
4606	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Aug. 30	Aug. 28	827
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus	Aug. 25	Sept. 6	449
3676	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Aug. 25	Aug. 26	1,176
4866	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Sept. 5	Sept. 5	708
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Sept. 20	Sept. 14	843
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Aug. 23	Aug. 23	861
2000B	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—{Trade-Marks	Nov. 27	Dec. 12	895
	{Labels and Prints	Dec. 5	Dec. 12	127

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DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Thomas A. Snyder

No. 3,166. Decided December 4, 1933

Patentability—Cast-Metal Tread-Belt-Link.

A claim for a cast-metal tread-belt-link *Held* patentable over the prior art.

Appeal from the Patent Office. Reversed.

Bland, *J.*, and Hatfield, *J.*, dissenting.

Messrs. Hoar, Ruhloff & Arnaud for Snyder.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

Lenroot, *J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming that of the Examiner, disallowing, for lack of invention in view of the prior art, claim 24 of appellant's application, which claim reads as follows:

24. An integral cast-metal tread-belt-link for creeping traction, having: a broad ground-engaging portion; a single centrally-located wheel-runway, spaced above the ground-engaging portion; and four upstanding heavy tapered driving and wheel-guiding projections, two on each side of the runway, the driving-surface of each such projection being on that face thereof which is furthest from the other projection on the same side of the runway.

Certain other claims of appellant's application were allowed. The references relied upon are: Desy, 949,354, February 15, 1910; Bager et al., 1,574,042, February 23, 1926; Fykse, 1,759,049, May 20, 1930.

The application relates to endless tread-belt links for creeping traction and discloses an integral cast metal tread-belt link which has a broad ground-engaging portion, a single, centrally located wheel runway spaced above, and four upstanding, heavy, tapered driving and wheel-guiding projections. Upon each of said projections there is a driving surface, which is the surface farthest removed from the other projection on the same side of the runway.

Each of the references shows a tread link of the same general type as appellant's link, having a broad ground-engaging portion, a central, raised wheel runway, and flanges or projections at the sides of the runway adapted to guide the tractor wheels and to be contacted at their ends by projected driving lugs on a drive wheel. The link shown in the Desy reference, however, shows three roller paths for broad rollers.

The link shown by Bager et al. has a single wheel runway, as does the link of appellant. The wheel runway in Bager et al. is flanked on each side by an upstanding flange. These flanges are solid, and towards the ends thereof the metal is thicker, forming a heavier structure; the surfaces of the end portions of the flanges which face toward the abutting links when they are formed into a chain are sloped toward the base of the link to form a driving surface for contacting the driving lugs on the drive wheel.

The patent to Fykse shows a further development of the art here involved. In his specification he states that his link is an improved form of the link of Bager et al., and that the principal objects of his invention were to provide a novel means for the extrusion of dirt from the wheel runway of the tread link, to strengthen the link, and to secure the pins which fasten the links together. In the link shown by Fykse a hole is shown in each of the flanges of the runway, through which dirt is extruded from the wheel runway.

Appellant's application states that the alleged invention here involved is an improvement over the links disclosed and claimed by Bager et al. and by Fykse. The distinguishing feature between appellant's link and the links of Bager et al. and Fykse is that the lighter, central portion of the runway flanges, through which the hole extends in Fykse, has been omitted entirely. The wheel runway of appellant's structure is flanked by four upstanding, heavy, tapered driving and wheel-guiding projections, located upon said link at approximately the positions occupied by the ends of the runway flanges of the Bager et al. and Fykse references, thus making four lugs or flanges instead of two as in these references.

The Board of Appeals in its decision said:

> The applicant appears to admit that all he did was to do away "entirely with the central part of each of Bager's upstanding flanges. For further ease in casting, he tapered the remaining parts of the flanges; and he made them heavy, so as to compensate for the part cut away."
>
> A comparison of the applicant's invention with the cited patents, and particularly the Bager patent, shows that the applicant merely removed the intermediate portions of flanges 26 of Bager et al., thereby producing eight upstanding portions instead of four, the purpose being to remove the tendency of the accumulation of dirt between said flanges.
>
> We are of the opinion that the difficulty, if any, in the operation of the Bager et al., structure would be apparent upon observation and that the removal of the difficulty by removing a portion of said upstanding flanges would be obvious. The strengthening of the parts and the tapering of the upstanding members are obviously within the range of the skilled mechanic.

The Board of Appeals was in error in stating that appellant's structure has eight upstanding portions and that the Bager et al. structure had four. The fact is that the Bager et al. link had two, and appellant's link has four such projections or flanges. This, however, is not material to the question here involved.

Prior to appellant's application, it appears that the latest development of the art here involved was in the patent to Fykes, where he apparently secured a patent upon the provision for a hole in each flange of the runway, which permitted the wheels to extrude dirt from the wheel runway.

The question involved is a very simple one, namely, whether it would be obvious, as held by the Board of Appeals, to one skilled in the art to omit the central part of each of the runway flanges shown by Bager et al. and Fykse, and make the remaining parts of the flanges heavier and tapered.

We have given due consideration to the rule that this court will not disturb the concurring findings of the Patent Office tribunals upon questions of fact unless manifestly wrong, but we are convinced that what appellant has done would not be obvious to one skilled in the art, with all of the references before him. The Solicitor for the Patent Office has conceded in his brief, and upon oral argument, that appellant's improvement is new and useful. An affidavit in the record shows its very great value. It is apparent that the patentee Fykse recognized the problem of the desirability of extruding dirt from the wheel runway and attempted to solve it. It appears that he was only partially successful, and it does not seem to have occurred to him that the problem could be solved in the simple manner in which appellant has solved it.

It is our opinion that claim 24 should have been allowed by the Board of Appeals and its decision is reversed.

Reversed.

BLAND, *J.*, and HATFIELD, *J.*, dissent.

U. S. Circuit Court of Appeals—Seventh Circuit

WAHL CLIPPER CORPORATION *v.* ANDIS CLIPPER CO. ET AL.

No. 4,939. Decided July 20, 1933

1. PATENTABILITY—COMBINATION.

Claim 7 of Wahl patent, No. 1,832,437, for a vibrator used for massage and similar purposes, *Held* for a new combination and not for a mere aggregation, and valid and infringed.

2. SAME—INVENTION—EVIDENCE OF.

"In most instances the judgment of those who pay their money to secure the benefits of the patented article is truer and better than the opinion of experts or the speculations of an arbitrator. Inasmuch as experience is more reassuring than theorising, and history more certain than prophecy, so the test of public approval, if uninfluenced by detracting factors, must afford the weightiest proof obtainable determinative of invention."

APPEAL from the District Court of the United States for the Eastern District of Wisconsin; Ferdinand A. Geiger, Judge.

In Equity. Suit by the Wahl Clipper Corporation against the Andis Clipper Company and another. Decree for defendants, and plaintiff appeals.

REVERSED, with directions.

Max W. Zabel and *Greek Wells*, both of Chicago, Ill., for appellant.

Warren G. Wheeler, *S. L. Wheeler*, and *Leverett C. Wheeler*, all of Milwaukee, Wis., for appellees.

Before ALSCHULER, EVANS, and SPARKS, Circuit Judges

ALSCHULER, *Cir. J.*:

Appellant brought this suit to recover damages and restrain further infringements of claim 7 of its patent, No. 1,832,437, which covers vibrators of a type used for massage and similar purposes. The validity of the claim is the only question involved, for infringement is not disputed if the claim is valid.

At the conclusion of the trial, the court disposed of the case saying: "Claim 7 is held invalid for aggregation."

It supplemented this statement by formal findings of fact, the substance of which was that the patent was owned by appellant; that claim 7 only is involved; that appellee Andis Clipper Company manufactured and appellee Beauty Appliance Corporation sold the product (Exhibit 7) within the eastern district of Wisconsin after appellant's patent was issued; that claim 7 relates solely to an aggregation of an old form of vibrator mechanism with an old form of casing; that the form of casing defined by claim 7 was designed by Andis, president of appellee Andis Clipper Company, before the date of the invention claimed for the patent in suit; that the devices of Patent No. 1,682,447, which covered both hair clipper and vibrator, antedated the patent in suit; that in the light of the prior art the adaptation of the Andis casing to a well known vibrator mechanism was a matter of mechanical design perceptible to any person skilled in the art; and that claim 7 required merely the noninventive adaptation of prior art tool handles to the operator's hand.

As conclusions of law, the court found that claim 7 is void for lack of invention and is void for anticipation by the device manufactured by Van Osdel.

In the application for appellant's patent, Wahl, the patentee, described his invention and its purposes rather fully. He said:

> My invention relates to vibrators * * *.
> It is a purpose of this invention to provide a device of this character which shall be easy to manipulate or hold without the provision of an extended handle.
> * * * to provide a vibrator * * * with a container or housing that may readily be grasped by the hand of the operator and firmly held so that there is no danger of it twisting out of the operator's hand and so that it may be properly directed to give the most advantageous results.
> * * * to provide a vibrator * * * with a container which is adapted to serve as a handle and which container may be readily detached in sections from the vibrator to permit access to the interior thereof.
> * * * to provide in a device of this character novel means for resiliently supporting the movable armature on the electromagnet.

After describing in detail the various parts of the vibrator, he said:

> By having the weight distributed lengthwise of the casing and having the vibrator carried by the armature adjacent the front end of the casing so as to have the work pressure and maximum reaction at the one end of the casing in order to cause a turning movement in a plane lengthwise of the casing, the vibration at the other end is materially lessened. By having the tail piece in a generally diagonally opposite position with respect to the place of pressure application, the turning movement can be opposed by the smaller fingers of the operator's hand with but little of the tiring pounding or vibration upon them.
> The heavy core of the armature together with the winding and the housing makes a heavy mass that is not subject to an objectionable reaction due to the vibration of the light armature 14 and the massage tool carried thereby. Furthermore, in view of the manner in which the armature is mounted, heavier pressure on the massaging device brings the armature closer to the electromagnet and thus increases the magnetic pull so that the degree of vibration obtained is substantially increased at will without adjustment.

The novelty of claim 7 resides in the structure of the casing, the location of the vibrator in relation to the casing, and the distribution of weight in the electrical mechanism.

Vibrators were, of course, old. Generally speaking, a vibrator necessitates four elements: (1) A casing wherein the electromagnetic means for actuating the vibrator is housed; (2) said electromagnetic means, (3) a carrying armature located either at the end of the casing or extending perpendicularly from the casing; and (4) a handle for the operator to hold.

It is the theory of appellant that the novelty upon which his claim of invention is predicated lies in the particular type of its structure, not in the introduction of new elements, nor in the elimination of old elements of the combination. In other words, asserted inventibility is traceable to the particular form, weight, and size of the casing, coupled with the position of the vibrator in relation to the casing, the distributed weight of the vibrator actuator, and the shaping of the casing so as to use it as a handle.

Claim 7, divided into its elements showing the limitations of each element, reads as follows:

> An electromagnetic vibrator having: an elongated casing provided therein with electromagnetic means for actuating a vibrator carrying armature, said electromagnetic means being so arranged as to distribute the weight throughout the length of the casing; an armature resiliently mounted in the casing whereby to swing toward and away from the front of the casing under the influence of said electromagnetic means; said armature carrying a vibrator at one end of said casing whereby the pressure of the vibrator against the work exerts a turning movement tending to rotate said casing and said casing having substantially diagonally opposite the vibrator carrying end of the armature; a tailpiece forming a reduced end extension flush with the back of said casing which serves as a grip to prevent turning of the casing.

It will thus be seen that the combination consists of four elements: (*a*) A casing; (*b*) electromagnetic means for actuating a vibrator; (*c*) an armature carrying a vibrator; and (*d*) a tailpiece which is a part of the casing and serves as a handle. Each element is modified by limiting clauses which narrow the claim as a whole. For example, the electromagnetic means which constitute the heavier part of the mechanism must have its weight distributed throughout the length of the casing. The armature must be resiliently mounted in the casing so as to swing as specified. Likewise, the armature must be so constructed as to carry a vibrator at one end of the casing so that the vibrator will react to the action of the vibrator in a certain described way. The casing must be so constructed as to have diagonally opposite the vibrator carrying end of the armature a tailpiece which tailpiece serves as a grip for the holder, and the casing at this part is somewhat reduced in size, but the extension is flush with the back of said casing.

Appellees contend that the combination is not patentable for two reasons: (*a*) It is but an aggregation of old elements; and (*b*) it is anticipated by the prior art.

In the prior art there were hair clippers wherein the casing served both as a handle and housing mechanism. Appellee, Andis Clipper Company, had used a casing quite similar to the casing of the patented article in its hair clipper prior to appellant's application for the patent. Van Osdel, at an early date, invented a hair clipper. He made use of a casing at one end of which was the electromagnetic mechanism for actuating the clipper. Near the end, but horizontal thereto, was also a vibrator attached to the same electromagnetic mechanism.

The precise question involved is whether Wahl did more than merely take appellee's (Andis Company's) casing and adapt Van Osdel's idea of locating his vibrating instrument near the end of the casing and connect it with the electromagnetic mechanism housed by the casing. Perhaps it would be more accurate to inquire, did Wahl do more than unite an old form of casing such as appellee (Andis Company) used in its hair clipper and locate a vibrator thereon as it had been previously positioned, and was that "more" merely the exercise of mechanical skill?

Wahl did more than utilize several old elements in a combination wherein no new or changed results occurred. His endeavor and his result was so to construct the casing and so position the vibrator and so weight the electromagnetic means that the influence of each on the other produced a new or at least a better result.

[1] Whether the combination described by claim 7 is patentable invention rather than an aggregation depends upon the existence of a fact basis for patentee's assertion that his arrangement and construction of the four elements thereof are novel and their coaction produced desirable results. Abstractly or theoretically, the inventor has presented a case of patentable combination and not an aggregation.

By eliminating that which is conceded, it is easier to apply the test to this vital question. Wahl made use of four elements in his combination. They were all old in the art. Each served the same purpose for Wahl as in the prior art. The electromagnetic vibrator art is in the same field as the electromagnetic hair clipper art.

What then did Wahl do to justify his inventorship pretensions?

Appellant's location of an armature and the vibrator *in the combination* was novel. It was not new as a single element. It was not new and would not have constituted invention merely to change the location of this one element of the vibrator. But it was new so to locate said element as to lessen its turning tendency when applied to the body. Making a handle out of the tailpiece of the casing was not new. But making one of the form specified by Wahl, which would make more effective and certain the grip and lessen the force on the operator's hand, was new. Doubtless it was neither novel nor patentable merely to distribute the weight along the electromagnetic mechanism, but to distribute it and house it in the casing, one end of which became a handle, in such a way as to secure coaction of parts and thereby make it easier for the user to operate the device and at the same time add to its effectiveness and the comfort of the application, was new. The defense of aggregation must, therefore, fail.

What of its patentability in view of the existing prior art? Appellees assert, and the court found, that Wahl's contribution did not rise to the dignity of invention. On the other hand appellant asserts, and the Patent Office sustained its view, that invention was lodged in the combination.

In approaching the determination of this question, which unfortunately is not solvable with any mathematical nicety nor certainty, we are conscious that every decision must, after all, be quite arbi-

trary. The court must indulge in some speculation as to the value of the patented article, as well as in the likelihood of one skilled in the art being readily able to solve the problem involved in the patent when presented for solution.

[2] What is inventive genius? What is mechanical skill? We apprehend the terms are used for want of better ones, and then, too, they suggest, if they do not define, what the writer has in mind. Moreover, the words are of comprehensive and elastic meaning, the use of which is seldom helpful but, nevertheless, quite tempting. What is genius? What, an inventive genius? May only an inventive genius receive a valid patent? Instead of comparing the mental activities (and eccentricities) of genius and the "mechanic skilled in the art," it would seem safer and more accurate to study the product itself and, if possible, ascertain the verdict of the public—the ultimate beneficiary of the contribution. In most instances the judgment of those who pay their money to secure the benefits of the patented article is truer and better than the opinion of experts or the speculations of an arbitrator. Inasmuch as experience is more reassuring than theorizing, and history more certain than prophecy, so the test of public approval, if uninfluenced by detracting factors, must afford the weightiest proof obtainable determinative of invention. In short, in construing the patent statute, which was enacted to promote the useful arts, it is more important to study those developments of the art which are bright with use in the channels of trade than to delve into abandoned scrap heaps and dust-covered books which tell of hopes unrealized and flashes of genius quite forgotten. The somewhat meaningless terms "inventive genius" and "mechanical skill" must be clarified by an examination of the article itself, and if the improvement be unusual, or if there be doubt, and the public has given its tribute, the judge should accord to the creator of the article the title of inventor.

In the instant case, the hopes of the inventor were justified by the users. Appellant's vibrator business increased about 1,500 per cent in two years. Appellant had been selling vibrators for 14 years before putting the patented article on the market. Its average sales were approximately 1,000 vibrators per year. Its new vibrator appeared on the market in March, 1928. That year appellant sold 1,500. The second year it sold 10,500 and the next year, 21,000. In the last year it sold over 30 per cent of all the vibrators purchased in the country. The number of vibrators its licensee sold does not appear in the record, but its sales should be added to the figures and percentages above stated.

In appraising this evidence, we appreciate the need of close scrutiny to ascertain whether increased sales were attributable to the merits of the device (in other words, is the public paying tribute to the inventor?), or whether such increased sales are due to advertisement (there is doubtless advertising genius as well as inventive genius), to an intensive sales drive, a consolidation of competing industries, an abandonment of the manufacture of an old article, the happy use of a trade-name, a sharp revival of business, or any other means which an alert management of an industry successfully adopts to sell a nationally used article.

There are many cases where this evidence is of little or no value, because not an expression of public approval. There is likewise difficulty in confining its use to doubtful cases rather than in creating doubtful cases.

The record before us is barren of any evidence which tends to lessen the persuasiveness of this immediate and general adoption of Wahl's patented vibrator. This vibrator was offered to the public at the same price and side by side with appellant's old type with the results previously stated.

But this evidence of the public's judgment is not the only persuasive evidence in the record. One of appellant's competitors sought and secured a license to make and sell vibrators covered by claim 7. More persuasive evidence than the action of competitors in taking licenses and paying substantial royalties for the privilege of selling the patented article can hardly be found.

The action of appellee (Andis Company) too, is confirmatory of the conclusion here reached. After appellant's vibrator was placed on the market, appellee (Andis Company), without securing a license from the patentee, made and put on the market its vibrator which is a clear infringement of the patent. In explaining its action in thus changing its vibrator, appellee (Andis Company) argues that it was within its legal rights in so acting. Conceding for the moment its legal rights, the question exists, Why change its type of vibrator unless the article copied possessed merit? And why was not the change made earlier if the article possessed merit and its production was obvious to a mechanic skilled in the art?

Further discussion of the question seems unnecessary. Our conclusion is that claim 7 of the Wahl patent is valid and infringed.

The decree is reversed, with directions to proceed in accordance with the views here expressed.

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1,673,942. (See Re. 17,393.)

1,682,271, G. L. Eveleth, Door with combined screen and adjustable window, D. C., S. D. Calif. (Los Angeles), Doc. E V–5–C, *G. L. Eveleth et al.* v. *Deats Sash & Door Co. et al.* Claim 3 held valid and infringed Sept. 5, 1933.

1,683,531. (See Re. 17,393.) 1,687,040. (See 1,272,056.)

1,689,681, A. M. Pigeon, Circular knitting machine, filed Sept. 13, 1933, D. C., E. D. Pa., Doc. 7869, *Wildman Mfg. Co.* v. *Hemphill Co. et al.*

1,690,723, M. S. Frankle, Deflector for motor vehicle hot-air heaters; 1,830,090, H. J. Cocks, Automobile heater, D. C., N. D. Ohio, W. Div., Doc. E 1220, *N. C. Barnes et al.* v. *Associated Parts, Inc.* Dismissed without prejudice Oct. 26, 1933.

1,693,998. (See 1,601,146.) 1,702,833. (See 1,231,764.)

1,707,617. (See 1,251,377.)

1,724,583, C. I. Hayes, Electric furnace; 1,808,721, same, Method for heat treatment; 1,851,831, same, Atmospheric control for heat treating furnace, filed Oct. 23, 1933, D. C., S. D. N. Y., Doc. E 76/350, *C. I. Hayes et al.* v. *Surface Combustion Corp.*

1,735,436, S. Kauffman Radiator enclosure, filed Oct. 24, 1933, D. C., E. D. Mo. (St. Louis), Doc. 10636, *J. Adler* v. *Dreste Radiator Shield & Enclosure Co. et al.*

1,745,340, E. S. Parker, Broiler and toaster, D. C., N. D. Ohio, E. Div., Doc. 4719, *The Buckeye Aluminum Co.* v. *A. A. Stone et al.* Dismissed without prejudice Oct. 28, 1933.

1,752,917, A. R. Lukens, Dielectric substance, D. C., S. D. Ohio, W. Div., Doc. E 788, *The Richardson Co.* v. *The C. A. Fisher Co.* Dismissed without prejudice (notice Oct. 31, 1933).

1,784,687, N. Giancola, Garment making machine, filed Oct. 17, 1933, D. C., E. D. Mo. (St. Louis), Doc. 10626, *N. Giancola et al.* v. *L. M. Stein Co.*

1,795,214. (See 1,251,377.)

1,796,855, R. H. Ahlers, Electrical condenser; 1,815,496, W. A. Chryst, Ignition apparatus; 1,830,907, C. H. Kindl, Electrical condenser, D. C., E. D. N. Y., Doc. E 6797, *Delco-Remy Corp.* v. *O. Borodkin et al.* Decree for plaintiff Oct. 30, 1933.

1,808,721. (See 1,724,583.) 1,811,095. (See 1,251,377.)

1,815,496. (See 1,796,855.)

1,819,258, 1,892,993, M. Nevin, Syringe; 1,839,695, 1,840,788, same, Hypodermic syringe, filed Aug. 15, 1933, D. C., E. D. Pa., Doc. 7835, *Novocol Chemical Mfg. Co., Inc.*, v. *J. Lieb et al.* (*Proco-Sol Chemical Co.*).

1,825,720. (See 1,272,056.) 1,830,090. (See 1,690,723.)

1,830,172, A. L. Nelson, Piston, filed Oct. 30, 1933, D. C. Conn. (New Haven), Doc. E 2318, *Bohn Aluminum & Brass Corp.* v. *Collins & Leary, Inc.*

1,830,907. (See 1,796,855.) 1,835,019. (See 1,601,146.)

1,839,695. (See 1,819,258.) 1,840,788. (See 1,819,258.)

1,847,839, A. J. Kusel, Refrigerating apparatus assembly, filed Aug. 21, 1933, D. C., E. D. Pa., Doc. 7841, *H. Roberts* v. *The General Electric Co.*

1,851,831. (See 1,724,583.)

1,862,914, W. E. Wagner, Propellant powder and process of making same, filed Oct. 30, 1933, D. C., S. D. Ohio, W. Div., Doc. E 873, *Western Cartridge Co. v. The King Powder Co. et al.*

1,879,868, H. A. Wheeler, Volume control, D. C., E. D. N. Y., Doc. E 6873, *Hazeltine Corp. v. R. H. B. Service Corp. et al.* Decree for plaintiff Oct. 30, 1933.

1,892,993. (See 1,819,258.)

1,901,855, M. S. Du Pont, Aerial banner, D. C., E. D. Pa., Doc. 7755, *Kellett Autogiro Corp. v. C. T. Otto.* Discontinued Oct. 24, 1933.

1,902,957, M. J. Hinlein, Veil, D. C., S. D. N. Y., Doc. E 76/101 *J. H. Hinlein & Sons v. F. W. Woolworth.* Consent order of discontinuance (notice Oct. 31, 1933).

1,926,966, E. C. Haas, Catamenial device, filed Oct. 27, 1933, D. C. Colo. (Denver), Doc. 10220, *E. C. Haas v. Pens, Ltd., et al.*

Re. 17,393, J. Mayer, Hair waving appliance and method; Re. 17,585, same, Permanent hair waving appliance; 1,683,531, G. Decker, Hair waving outfit; 1,673,942, D. Halpern, Permanent waving attachment, D. C., N. D. Ohio, E. Div., Doc. E 3420, *The Philad Co. et al. v. The Herold Bros. Co.* Claims 9 and 10 of Re. 17,393 held valid and infringed; bill dismissed as to Re. 17,585 and 1,683,531 Nov. 2, 1933.

Re. 17,585. (See Re. 17,393.)

Re. 17,885, J. H. Janowitch, Shirt collar stiffener, D. C., S. D. N. Y., Doc. E 62/124, *Lakewood's Patents Corp. v. Brewster Shirt Corp et al.* Consent order of discontinuance (notice Oct. 31, 1933).

Re. 18,276. (See 1,272,056.)

Re. 18,579. (See 1,251,877.)

Des. 83,693, J. Moosberr, Lace, filed Oct. 31, 1933, C. C. A., 2d Cir., Doc.——, *Liberty Lace & Netting Works v. Acme Textiles, Inc., et al.*

Des. 88,506. (See 1,217,362.)

Des. 88,510. (See 1,217,362.)

Des. 88,511. (See 1,217,362.)

Notices of Cancellation

U. S. PATENT OFFICE, *Washington, December 8, 1933.*

Charles A. Mead, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the General Products Co., 252 North 11th Street, Philadelphia, Pa., to effect the cancellation of the trade-mark registration of Charles A. Mead, 1506 North Harding Avenue, Chicago, Ill., No. 160,921, dated October 31, 1922, and the notice of such proceeding sent by registered mail to the said Mead at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Mead, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

F. M. HOPKINS,
Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, December 8, 1933.*

Harry Kesselman, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the Pro-phy-lac-tic Brush Company, Northampton, Mass., to effect the cancellation of the trade-mark registration of Harry Kesselman, 311 West 59th St., New York, N. Y., No. 283,622, dated June 2, 1931, and the notice of such proceeding sent by registered mail to the said Kesselman at the said address having been returned by the postoffice as undeliverable, notice is hereby given that unless said Kesselman, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

F. M. HOPKINS,
Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, December 8, 1933.*

The Pynolene Remedy Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Pineolenm Company, 52 West 15th Street, New York, N. Y., to effect the cancellation of the trade-mark registration of The Pynolene Remedy Company, 100 West 18th Street, Oklahoma City, Okla., No. 197,514, dated April 21, 1925, and the notice of such proceeding sent by registered mail to The Pynolene Remedy Company at the said address having been returned by the postoffice as undeliverable, notice is hereby given that unless The Pynolene Remedy Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

F. M. HOPKINS,
Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, JANUARY 9, 1934

[VOL. 438. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 343,044. ROMBLING COAL CO., INC., New York, N. Y. Filed Oct. 30, 1933.



The trade-mark consists of a fanciful portrait of a girl's head pictured upon a piece of burning coal arranged mainly within a circle and associated with the word coal which intercepts the circle. The word "Coal" is disclaimed apart from the mark as shown in the drawing.

For Coal.

Claims use since Oct. 25, 1933.

Ser. No. 343,157. BLUE RIDGE COAL CORP., New York, N. Y. Filed Nov. 2, 1933.

Petro Mix

The word "Mix" is hereby disclaimed apart from the mark as shown on the drawing.

For Combination of a Fuel Consisting of Petroleum Residue and Bituminous Coal.

Claims use since Sept. 28, 1933.

Ser. No. 343,210. THE KEARNS COAL COMPANY, Cincinnati, Ohio. Filed Nov. 3, 1933.

WISCO

For Coal.

Claims use since Apr. 1, 1932.

Ser. No. 343,373. ROBERT JAMES ANDREW WEBB, Union City, Okla. Filed Nov. 7, 1933.



No claim is made to the words "Purple Cotton" apart from the mark shown.

For Cotton Seed.

Claims use since August, 1932.

CLASS 2

Receptacles

Ser. No. 335,507. FELIPE INOCENCIO, doing business as Auto Spoon Co., Glendora, Calif. Filed Mar. 6, 1933.



For Base Metal and Glass Table Sugar Dispensers.

Claims use since Jan. 3, 1933.

Ser. No. 343,517. MOTOR WHEEL CORPORATION, Lansing, Mich. Filed Nov. 10, 1933.

DUO-STEEL

Applicant disclaims the word "Steel" apart from the mark as shown.

For Metal Barrels.

Claims use since Aug. 11, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 342,477. H. TH. BÖHME AKTIENGESELLSCHAFT, Chemnitz, Germany. Filed Oct. 14, 1933.

Enviol

For Soap and Soap Preparations for Use in the Textile Industry.
Claims use since July 15, 1933.

Ser. No. 342,478. H. TH. BÖHME AKTIENGESELLSCHAFT, Chemnitz, Germany. Filed Oct. 14, 1933.

Fedal

For Soap and Soap Preparations for Use in the Textile Industry.
Claims use since Aug. 30, 1933.

Ser. No. 343,026. CAMPANA CORPORATION, Batavia, Ill. Filed Oct. 30, 1933.

CAMPANA

Applicant is the owner of Registered Trade-Mark #234,572 effected under the 10-year proviso.
For Creams for Use Before and During Shaving—Namely, Shaving Creams and Toilet Soaps.
Claims use since Oct. 7, 1933.

Ser. No. 343,313. YANKEE POLISH CO., INC., New York, N. Y. Filed Nov. 6, 1933.

YANKEE

The lining appearing on the drawing is for shading purposes only.
For Shoe Blacking, Shoe Dressing and Shoe Polish, and Polish for All Leather Goods.
Claims use since September, 1916.

CLASS 5

Adhesives

Ser. No. 343,473. THE PEP BOYS—MANNY, MOE & JACK, doing business as Cornell Tire & Rubber Co., Akron, Ohio, and Philadelphia, Pa. Filed Nov. 9, 1933.



The lining shown on the drawing is for shading purposes only.
For Adhesive Vulcanizing Cement, Running Board Covering Cement, and Running Board Cement.
Claims use since January, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 320,769. THE THOMAS CHEMICAL CO., INC., Lynchburg, Va. Filed Nov. 3, 1931.

CUREN

For Ointment for the Treatment of Eczema and Other Skin Disorders.
Claims use since Oct. 15, 1931.

Ser. No. 337,503. CHRIST JOHN BEKAS, New York, N. Y. Filed May 5, 1933.



SILVER EAGLE

For Asthma Medicine.
Claims use since 1928.

Ser. No. 338,853. FRANCES SHEDDAN WEBB, doing business as Webb Chemical Company, Osceola, Ark. Filed June 14, 1933.



For Croup and Pneumonia Salve and Anti-Malarial Capsules.
Claims use since May 22, 1933.

Ser. No. 339,105. JAKE GIBSON, Cincinnati, Ohio. Filed June 22, 1933.



The words "Pile Medicine" are disclaimed apart from the mark as shown.
For Medicinal Preparation for the Treatment of Piles.
Claims use since February, 1933.

Ser. No. 339,491. COLE CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo. Filed July 5, 1933.

THYRO-NUX

The word "Nux" is disclaimed apart from the remainder of the mark shown.
For the Treatment of Hypotension Associated with Tuberculosis; Chronic General Debility from Any Cause, Especially Convalescence from Acute Infectious Diseases and General Debility from Overwork, Influenza, La Grippe, Etc., Chronic Tobacco Poisoning; Focal Infections, Hemorrhages and Severe Diarrhoeas, Endocrine Deficiencies; and Sexual Neurasthenia (Both Sexes).
Claims use since June 21, 1933.

Ser. No. 339,952. LILLIAN S. TUBIN, doing business as Menthosol Co., Chicago, Ill. Filed July 19, 1933.



For Bath Salts for Use as a Cleanser and Deodorant.
Claims use since May 16, 1933.

Ser. No. 339,979. JOHN E. MC BRADY, doing business as J. E. Mc Brady & Company, Chicago, Ill. Filed July 21, 1933.



The trade-mark comprises the fanciful design with the decorative corners in which fanciful illustrations of various herbs are shown to provide a distinctive design. The term "Herb Tea No. ——" is hereby disclaimed.
For Medical Herb Teas.
Claims use since June 1, 1933.

Ser. No. 340,435. E. DALTROFF & CIE, doing business as Parfumerie Caron, Paris, France. Filed Aug. 5, 1933.

FLEURS DE ROCAILLE

For Perfumes, Toilet Waters, Face and Toilet Powders, Powder and Rouge Compacts, Rouges, Lipsticks, Bath Salts, Lotions for the Skin and Hair, and Sachets.
Claims use since June 16, 1933.

Ser. No. 340,913. CALIFORNIA NOTION AND TOY COMPANY, LTD., San Francisco, Calif. Filed Aug. 22, 1933.

NORO

For After-Shaving Lotions; Beauty, Skin and Hand Lotions—Namely, Cucumber Lotions, Honey and Almond Lotions, Lemon Lotions, Rose Almond Lotions, Strawberry Lotions and Astringent Lotions; Beauty Creams—Namely, Cleansing Creams, Cold Creams, Vanishing Creams, Bleaching Creams, Lemon Creams, Liquefying Melting Creams, Rolling Massage Creams, Skin and Tissue Creams, Strawberry Creams, Sunburn Creams, Foundation Creams, Muscle Creams, Avocado Tissue Creams and Turtle Oil Creams; Hair Preparations—Namely, Banana Pomades, Brilliantine, Petroleum Hair Tonics, Lemon Pomades, Olive Oil Shampoos, Wave Sets and Eau de Quinine.
Claims use since Apr. 12, 1933.

Ser. No. 341,047. SCHERING CORPORATION, New York, N. Y. Filed Aug. 26, 1933.

BULK plus Motility

Applicant makes no claim to the exclusive right to the use of the work "Bulk".
For Laxative Preparation.
Claims use since Jan. 26, 1931.

Ser. No. 341,725. ALBERT DURANDE, INC., New York, N. Y. Filed Sept. 20, 1933.

SOSNA

Pine Oil Massage and Pine Oil Shampoo.
Claims use since July 15, 1933.

Ser. No. 342,132. LEDERLE LABORATORIES, INC., New York, N. Y. Filed Oct. 4, 1933.

CARBOZOO

For Vaccine—Namely, a Biological Preparation for the Prevention of Anthrax in Animals.
Claims use since May 18, 1933.

Ser. No. 342,292. WEEPING WATER CRYSTALS CO., Milwaukee, Wis. Filed Oct. 9, 1933.

WEEPING WATER Crystals

No claim is made to the word "Crystals" apart from the mark shown.
For Crystals Derived from Natural Mineral Waters by Evaporation.
Claims use since June 1, 1931.

Ser. No. 342,358. LUKE E. O'BRIEN, doing business as Subdnco Products Co., Steubenville, Ohio. Filed Oct. 11, 1933.

SUBDUCO

For Water Softening Preparation with Incidental Properties.
Claims use since Aug. 15, 1933.

Ser. No. 342,518. MURRAY BOSTER, doing business as Boster Laboratories, Cincinnati, Ohio. Filed Oct. 16, 1933.

TOSH

For Mouth Wash.
Claims use since July 15, 1933.

Ser. No. 342,529. JOHN CUMMINGS, doing business as Cummings Drug Co., Chicago, Ill. Filed Oct. 16, 1933.



For Reducing Tablets.
Claims use since Jan. 1, 1933.

Ser. No. 342,550. WILLIAM C. PICKING, Denver, Colo. Filed Oct. 16, 1933.

Rokoli

For Stomach and Blood Preparations, Face Creams, Antiseptic Ointments for Burns, Wounds, Etc., Antiseptic Vaginal and Rectal Suppositories for Infectious Conditions; and Tooth Powders.
Claims use since July 1, 1932.

Ser. No. 342,676. TIMIN & GINSBERG, Brooklyn, N. Y. Filed Oct. 19, 1933.



For Rat Exterminating Preparation.
Claims use since June, 1933.

Ser. No. 342,703. HAROLD J. PEMBERTON, doing business as A Pem Co., Scott, Ark. Filed Oct. 20, 1933.

APEM

For Hair Tonic.
Claims use since January, 1933.

Ser. No. 343,022. WILLIAM T. TAYLOR, Pittsburgh, Pa. Filed Oct. 30, 1933.

W. T. TAYLOR'S



The portrait appearing on the drawing is that of the applicant.
For Pile Salve.
Claims use since July 1, 1925.

Ser. No. 343,024. CAMPANA CORPORATION, Batavia, Ill. Filed Oct. 30, 1933.

CAMPANA

Applicant is the owner of registered Trade-Mark No. 234,572, effected under the 10-year proviso.
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Vanishing Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Liquid Face Powders, Eye Shadows, Eyebrow Pencils, Hair Salves, Hair Elixirs, Dandruff Preparations, Wave-Setting Lotions, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Lip Sticks, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Chemical Cuticle Removers, Cuticle Oil, Witch-Hazel, Witch-Hazel Salves, Camphor Creams, Talcum Powders, Foot Powders, Corn Salves, Bay Rum, and Perfumery.
Claims use since Oct. 7, 1933.

Ser. No. 343,143. GEORGE A. BREON & COMPANY, INCORPORATED, Kansas City, Mo. Filed Nov. 1, 1933.

LIRON

For Medicinal Preparations for the Treatment of Anemia.
Claims use since May 15, 1932.

Ser. No. 343,180. MUVIETAN PRODUCTS CO., LTD., Los Angeles, Calif. Filed Nov. 2, 1933.

MARVELCONE

For Antiseptic Vaginal Cones.
Claims use since Aug. 5, 1933.

Ser. No. 343,258. THE TRADE LABORATORIES, INC., Newark, N. J. Filed Nov. 4, 1933.

ORIS

For Dental Cream.
Claims use since Aug. 31, 1923.

Ser. No. 343,289. JOSEPH HENRY KARP, New York, N. Y. Filed Nov. 6, 1933.

ki-retic

For Diuretic Stimulant.
Claims use since May 1, 1913.

Ser. No. 343,359. THE MILLER CO., INC., Newark, N. J. Filed Nov. 7, 1933.



For Stomach Intestinal Cleanser.
Claims use since Oct. 25, 1933.

Ser. No. 343,491. MARCEL CARTERET, doing business as Laboratories Carteret, Paris, France. Filed Nov. 10, 1933.

CHRYSEMINE

For Medicine Used Internally for Destroying or Expelling Parasites.
Claims use since Oct. 22, 1932.

Ser No. 343,504. GRIGGSBY J. FLESHMAN, doing business as Fleshman Footone Co., Oak Hill, W. Va. Filed Nov. 10, 1933.

FOOTONE

For Foot Lotion.
Claims use since Nov. 24, 1931.

Ser. No. 343,532. TYRRELL'S HYGIENIC INSTITUTE, INC., New York, N. Y. Filed Nov. 10, 1933.

J·B·L·



The picture shown in the drawing is a portrait of Chas. A. Tyrrell, M. D., the signature being a facsimile of the signature of said Chas. A. Tyrrell.
For Cleansing Tonic.
Claims use since 1895.

Ser. No. 343,598. THE CROSS SALVE COMPANY, Marion, Ky. Filed Nov. 13, 1933.

CROSS SALVE

No claim is made to the word "Salve" apart from the mark shown in the drawing.
For Healing Salve.
Claims use since Aug. 19, 1933.

Ser. No. 343,611. HY'NE COMPANY, doing business as Zenith Laboratories, Chicago, Ill. Filed Nov. 13, 1933.

ZENITH
Antiseptic Kones

Applicant hereby disclaims any and all right to registration of the descriptive words "Antiseptic Kones" in connection with the trade-mark herein referred to.
For Germicide Powder.
Claims use since Jan. 1, 1932.

Ser. No. 343,630. THE TRU-BLOS CO., Miami, Fla. Filed Nov. 13, 1933.

TRU-BLOS

For Perfume.
Claims use since May 1, 1933.

Ser. No. 343,656. MILTON KRIEGER, New York, N. Y. Filed Nov. 14, 1933.

NAMILON

For Nail Polish and Nail-Polish Remover.
Claims use since Oct. 16, 1933.

Ser. No. 343,672. BLACKMAN & BLACKMAN, INC., doing business as Premo Pharmaceutical Laboratories, New York, N. Y. Filed Nov. 15, 1933.

ETHALYL

For Soporific, Sedative, and Analgesic Medicine.
Claims use since Sept. 20, 1933.

Ser. No. 343,678. HEALTH PRODUCTS CORPORATION, Newark, N. J. Filed Nov. 15, 1933.

CLO-DEE

For Cod Liver Oil Concentrate.
Claims use since Oct. 26, 1933.

Ser. No. 343,807. WILKIL SALES COMPANY, Los Angeles, Calif. Filed Nov. 17, 1933.

EXTERMICIDE

For Insecticide.
Claims use since Oct. 6, 1933.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 344,069. THE TRIUMPH FUSEE AND FIREWORKS COMPANY, Elkton, Md. Filed Nov. 23, 1933.



No claim is made to the word "Brand".
For Fireworks.
Claims use since Nov. 1, 1933.

CLASS 10

Fertilizers

Ser. No. 344,057. JACKSON FERTILIZER COMPANY, Jackson, Miss. Filed Nov. 23, 1933.



The drawing is lined for red.
For Fertilizers.
Claims use since November, 1932.

CLASS 12

Construction Materials

Ser. No. 326,593. MITCHELL & SMITH, INC., Detroit, Mich. Filed Apr. 28, 1932.



For Cork Products—Namely, Cork Board in Sheets and Panels, Insulation Cork for Sound-Proofing Purposes, and Cork Insulating Panels for Thermal Insulating Purposes.
Claims use since April, 1928.

Ser. No. 332,672. ATLAS SALES CORPORATION, Los Angeles, Calif. Filed Dec. 2, 1932.



For Fissure Sealing and Drilling Compound for Well Holes.
Claims use since June 3, 1932.

Ser. No. 342,058. CALIFORNIA WIRE CLOTH COMPANY, Oakland, Calif. Filed Oct. 2, 1933.



For Galvanized Hexagon Wire Stucco Netting.
Claims use since Feb. 24, 1933.

Ser. No. 342,386. THE CINCINNATI ADVERTISING PRODUCTS CO., Cincinnati, Ohio. Filed Oct. 12, 1933.

firex

For Glass Tiles.
Claims use since Aug. 15, 1933.

Ser. No. 343,181. NATIONAL FIREPROOFING CORPORATION, Pittsburgh, Pa. Filed Nov. 2, 1933.

CELOKLA

For Building Units or Blocks of Fired Clay Materials Especially Manufactured for Sound Absorbing Qualities and Resistance to Heat and Cold.
Claims use since Dec. 21, 1931.

Ser. No. 343,581. WALTER LEE BROWN, Sawtelle, Calif. Filed Nov. 18, 1933.

SANA SILK

For Wall Covering Consisting of a Plastic Material Molded on a Base.
Claims use since May 28, 1933.

Ser. 343,812. WHITE PINE SASH COMPANY, Spokane, Wash. Filed Nov. 17, 1933.

PRIM-A-TOX

For Primed and Treated Lumber, Finished Lumber and Millwork, Including Door and Window Frames, Doors, and Sash, and Parts Thereof.
Claims use since Oct. 1, 1933.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 342,467. ASTOGRIL, INC., Cleveland, Ohio. Filed Oct. 14, 1933.

ASTOGRIL

For Broiling Devices, Each of Such Devices Comprising a Drip Pan Member and a Perforated Food Supporting Member Mounted Thereon.
Claims use since November, 1931.

Ser. No. 342,952. SOWERS MANUFACTURING CO., Buffalo, N. Y. Filed Oct. 26, 1933.

DOPPLOY

For Kettles, Including Fire, Steam Jacketed and Oil Jacketed; Also Mixing Kettles.
Claims use since July 12, 1933.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 342,165. ROTARY ELECTRIC STEEL COMPANY, Detroit, Mich. Filed Oct. 5, 1933.

RESCO

For Steel, and Hot or Cold, Rolled or Drawn, Semi-Finished or Finished Products—Namely, Hot Rolled Bars and Cold Drawn Bars.
Claims use since Sept. 6, 1933.

Ser. No. 343,569. NASSAU SMELTING AND REFINING COMPANY, New York, N. Y. Filed Nov. 11, 1933.

Nada

For Bronze Metals.
Claims use since June 2, 1933.

CLASS 15

Oils and Greases

Ser. No. 328,722. COL-TEX REFINING COMPANY, Wilmington, Del., and Oklahoma City, Okla. Filed July 12, 1932



No claim is made to the exclusive use of the word "Gasoline" apart from the mark as shown in the drawing.
For Gasoline.
Claims use since December, 1931.

Ser. No. 339,027. DANCIGER OIL & REFINING COMPANY, Tulsa, Okla. Filed June 20, 1933.



The drawing is lined to indicate the color red.
For Gasoline.
Claims use since Mar. 1, 1933.

Ser. No. 342,686. FOUAD BUSHAKRA, doing business as Powrlube Co. of N. J., Newark, N. J. Filed Oct. 20, 1933.



No claim is made herein to the words "Colloidal Graphite" and "Concentrate" apart from the mark shown in the drawing.
For Colloidal Graphite Suspended in Neutral Lubricating Oil.
Claims use since September, 1932.

Ser. No. 342,967. THE EL DORADO REFINING COMPANY, El Dorado, Kans. Filed Oct. 27, 1933.

FLEET

For Gasoline.
Claims use since Nov. 1, 1931.

Ser. No. 343,378. MOTO-KING LUBRICANTS, INC., Oil City, Pa. Filed Nov. 8, 1933.



All wording appearing on the drawing, including the symbol "100%", with the exception of the word "Franchise", is disclaimed apart from the other features of the mark shown in the drawing.
For Lubricating Oils.
Claims use since Nov. 1, 1933.

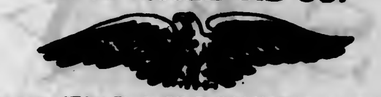
Ser. No. 343,379. MOTO-KING LUBRICANTS, INC., Oil City, Pa. Filed Nov. 8, 1933.



The notation "100% Genuine Pennsylvania Motor Oil" is disclaimed apart from the other features of the mark shown in the drawing.
For Lubricating Oils.
Claims use since Nov. 1, 1933.

Ser. No. 343,638. BLUE EAGLE OIL COMPANY, Tyler, Tex. Filed Nov. 14, 1933.

BLUE EAGLE OIL CO.



The name "Blue Eagle Oil Co." is disclaimed apart from the mark shown in the drawing.
For Gasoline and Lubricating Oil.
Claims use since Sept. 1, 1931.

CLASS 16

Paints and Painters' Materials

Ser. No. 317,024. CLEAN SURFACE PRODUCTS COMPANY, Chicago, Ill. Filed July 17, 1931.



The words "Surfas Savers" are disclaimed apart from the mark shown in the drawing.
For Polishes for Automobiles, Woodwork, Painted and Varnished Surfaces.
Claims use since Jan. 1, 1919.

Ser. No. 327,155. S. C. JOHNSON & SON, INC., Racine, Wis. Filed May 16, 1932.

PERMA PRIME

Claim is hereby waived to the word "Prime" apart from the trade-mark shown in the drawing.
For Paint Undercoats and Priming Coats.
Claims use since Jan. 22, 1931.

Ser. No. 342,011. THE MEARL CORPORATION, Brooklyn, N. Y. Filed Sept. 29, 1933.



The words "Pearl Essence" appearing on the drawing are disclaimed apart from the mark shown.
For Pearl Essence.
Claims use since June 9, 1933.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 343,744. JOHN ROZIG, New York, N. Y. Filed Nov. 16, 1933.

SKY

For Polish for Use Upon Furniture and Automobiles.
Claims use since Nov. 9, 1933.

CLASS 17

Tobacco Products

Ser. No. 344,079. WALTER T. ALLEN, doing business as Allen Bros., Fort Worth, Tex. Filed Nov. 24, 1933.

A-B'S

For Cigars.
Claims use since May 10, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 295,889. E. A. LABORATORIES, INC., Brooklyn, N. Y. Filed Feb. 11, 1930.

TOROVOCE

For Electrically Operated Horns for Motor Vehicles, Boats, and Motorcycles.
Claims use since January, 1926.

Ser. No. 335,795. WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio. Filed Mar. 17, 1933.

GENUINE HARD RUBBER

No claim is made to the words "Genuine Hard Rubber" except in association with the other features of the mark.
For Storage Batteries and Hard-Rubber Containers Therefor.
Claims use since August, 1930.

Ser. No. 341,027. HERMAN MEYER, doing business as Electro-Ray Sales Co., New York, N. Y. Filed Aug. 25, 1933.

Electro-Ray

For Electrical Equipments for the Creation of Electro-Magnetic Fields Useful in the Removal and Prevention of the Formation of Incrustrations Within Steam Boilers.
Claims use since June 1, 1933.

Ser. No. 342,840. DAISY ELECTRICAL MANUFACTURING CORPORATION, Brooklyn, N. Y. Filed Oct. 11, 1933.

DEMCO

For Electrically Operated Automobile Horns.
Claims use since Feb. 21, 1928.

Ser. No. 343,774. GALVIN MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 17, 1933.

LAZY BOY

For Radio Receiving Sets and Parts Thereof.
Claims use since Oct. 27, 1933.

Ser. No. 343,989. GUIDE LAMP CORPORATION, Anderson, Ind. Filed Nov. 22, 1933.

MULTIBEAM

For Lamps for Automobiles.
Claims use since Oct. 1, 1932.

Ser. No. 343,991. HAZELTINE CORPORATION, Jersey City, N. J. Filed Nov. 22, 1933.

XPS

For Radio Receiving and Transmitting Sets and Parts Thereof.
Claims use since Nov. 13, 1933.

Ser. No. 344,035. ALLIED BATTERY CORPORATION, Dayton, Ohio. Filed Nov. 23, 1933.

Allied

For Storage Batteries.
Claims use since November, 1932.

Ser. No. 344,147. GENERAL CABLE CORPORATION, New York, N. Y. Filed Nov. 25, 1933.

BARKHIDE

For Bare and Insulated Electrical Wires and Cables.
Claims use since November, 1927.

Ser. No. 344,148. GENERAL CABLE CORPORATION, New York, N. Y. Filed Nov. 25, 1933.

GENCORONE

For Bare and Insulated Electrical Wires and Cables.
Claims use since October, 1932.

Ser. No. 344,149. GENERAL CABLE CORPORATION, New York, N. Y. Filed Nov. 25, 1933.

GENRITE

For Bare and Insulated Electrical Wires and Cables.
Claims use since Jan. 17, 1933.

Ser. No. 344,150. GENERAL CABLE CORPORATION, New York, N. Y. Filed Nov. 25, 1933.

THERMAX

For Bare and Insulated Electrical Wires and Cables.
Claims use since Jan. 31, 1933.

Ser. No. 344,267. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed Nov. 29, 1933.

DUAL DUTY

For Storage Batteries.
Claims use since Aug. 9, 1933.

Ser. No. 344,268. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed Nov. 29, 1933.

JUMBO

For Storage Batteries.
Claims use since Aug. 9, 1933.

CLASS 22

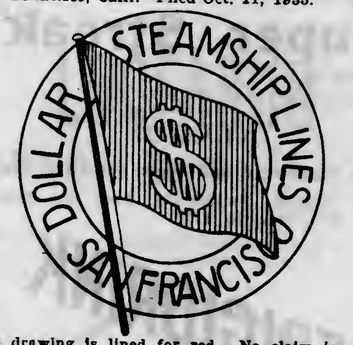
Games, Toys, and Sporting Goods

Ser. No. 342,138. TRILOS LIMITED, St. Annes-on-Sea, England. Filed Oct. 4, 1933.



For Table Game Played with Pieces Similar to Dominoes.
Claims use since Aug. 30, 1932.

Ser. No. 342,342. DOLLAR STEAMSHIP LINES INC., LTD., San Francisco, Calif. Filed Oct. 11, 1933.



The drawing is lined for red. No claim is made to the exclusive use of the word "San Francisco."
For Playing Cards.
Claims use since Mar. 25, 1924.

Ser. No. 343,172. GREAT MANTA EXHIBITION CORPORATION, New York, N. Y. Filed Nov. 2, 1933.



For Toys in the Form of Animal Models.
Claims use since Oct. 20, 1933.

Ser. No. 343,815. THE AMERICAN-NATIONAL COMPANY, Toledo, Ohio. Filed Nov. 18, 1933.

FIRE CHIEF

For Juvenile Vehicles Comprising Children's Automobiles, Wagons, and Velocipedes.
Claims use since January, 1921.

Ser. No. 344,080. BERTHA BEHRMAN, doing business as Alexander Doll Co., New York, N. Y. Filed Nov. 24, 1933.

Little Women

For Dolls.
Claims use since Nov. 14, 1933.

Ser. No. 344,117. SHOE FORM CO., INC., Auburn, N. Y. Filed Nov. 24, 1933.



The trade-mark is a facsimile signature of William J. DeWitt, president of the applicant company.
For Fish Bait.
Claims use since Nov. 10, 1933.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 344,152. GOLF BALL, INC., Chicago, Ill. Filed Nov. 25, 1933.

Super Streak

For Golf Balls.
Claims use since Oct. 23, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 332,116. FRIGIDRINKS, INC., San Francisco, Calif. Filed Nov. 14, 1932.

FRIGIDRINK

For Dispenser for Any Beverages, With the Exception of Carbonated Beverages.
Claims use since June 1, 1931.

Ser. No. 337,060. ALEXANDERWERK A. VON DER NAHMER, Remscheid, Germany. Filed Apr. 22, 1933.

ALEXANDERWERK

For Meat Cutters, Meat Slicing Machines, Vegetable Cutting and Slicing Machines, Potato Peeling Machines, Bread Slicing Machines, Mincing Machines, Meat Choppers, Dough Kneading Machines, Dough Mixing Machines, Fruit Presses, Coffee Grinders, Spice Grinding Mills, Dough Making Machines, Egg and Cream Beaters, Vegetable Cleaning Machines, Grating Machines, Cheese Making Machines, Flour Mills, Dish Washing Machines, Sausage Making Machines, Pepper Grinding Mills, Knife- and Fork-Cleaning Machines.
Claims use since May 24, 1898.

Ser. No. 338,060. TOWNSEND LAWN MOWER CO., Bloomfield, N. J. Filed May 20, 1933.

KUTALL

For Lawn Mowers.
Claims use since Apr. 3, 1933.

Ser. No. 343,014. SUPERIOR PRODUCTS COMPANY, New York, N. Y. Filed Oct. 28, 1933.

SUPCO

For Brake Parts and Cables.
Claims use since Apr. 25, 1932.

Ser. No. 343,151. ADVANCE CAR MOVER COMPANY INC., Appleton, Wis. Filed Nov. 2, 1933.

POWER BOY

For Lever Arrangement for Manually Moving Railway Cars on Tracks, Commonly Known as Car-Movers.
Claims use since June 1, 1933.

Ser. No. 343,635. BAKER OIL TOOLS, INC., Huntington Park, Calif. Filed Nov. 14, 1933.

BAKBLU

For Well Tools and Equipment—viz, Guide Shoes, Float Shoes, Float Collars.
Claims use since Sept. 28, 1933.

Ser. No. 343,636. BAKER OIL TOOLS, INC., Huntington Park, Calif. Filed Nov. 14, 1933.

BAKWIK

For Well Tools and Equipment—viz, Tool Joints, Drill Pipe Floats, Float Valves.
Claims use since Apr. 4, 1933.

CLASS 24

Laundry Appliances and Machines

Ser. No. 343,828. JAMES METAL PRODUCTS COMPANY, doing business as Junior Vacuum Washer, Inc., Chicago, Ill. Filed Nov. 18, 1933.

JUNIOR
VACUUM WASHER

The words "Vacuum Washer" do not form a part of the registration sought apart from the trade-mark shown in the drawing.
For Laundry Washing Machines.
Claims use since March, 1932.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 342,003. E. AND T. FAIRBANKS AND COMPANY, St. Johnsbury, Vt. Filed Sept. 29, 1933.

FAIRBANKS STRAIGHT LINE SCALES

No claim is made to the use of the word "Scales."
For Weighing Machines and Parts Thereof.
Claims use since May 31, 1933.

Ser. No. 343,750. THE TRANSPARENT RULER COMPANY, Hartford, Conn. Filed Nov. 16, 1933.

TRANSPARULE

For Rules and Rulers.
Claims use since April, 1933.

Ser. No. 344,052. FLEXRITE SALES COMPANY, Providence, R. I. Filed Nov. 22, 1933.

FLEXRITE

For Ophthalmic Mountings.
Claims use since Sept. 16, 1931.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 344,036. GEORGE F. BERKANDER, Providence, R. I. Filed Nov. 23, 1933.

Mother Goose Series



For Jewelry for Personal Wear or Adornment, Not Including Watches.
Claims use since Oct. 15, 1924.

CLASS 29

Brooms, Brushes and Dusters

Ser. No. 343,952. BOURJOIS, INC., New York, N. Y. Filed Nov. 22, 1933.

FIANCEE

For Powder Puffs.
Claims use since 1925.

Ser. No. 343,954. BOURJOIS, INC., New York, N. Y. Filed Nov. 22, 1933.

MANON LESCAUT

For Powder Puffs.
Claims use since Nov. 7, 1933.

Ser. No. 343,956. BOURJOIS, INC., New York, N. Y. Filed Nov. 22, 1933. Under section 5b of the act of 1905 as amended 1920.

Bourjois

For Powder Puffs; Tooth, Nail, Hair, Bath, and Face Brushes.
Claims use since Apr. 4, 1928.

Ser. No. 343,958. BOURJOIS, INC., New York, N. Y. Filed Nov. 22, 1933.

Karess

For Powder Puffs.
Claims use since Jan. 1, 1921.

Ser. No. 344,174. CHARLES COLLENDER, doing business as Chaco Manufacturing Co., New York, N. Y. Filed Nov. 27, 1933.

LOOFARUB

For Bathroom Wash Pads.
Claims use since November, 1932.

Ser. No. 344,175. CHARLES COLLENDER, doing business as Chaco Manufacturing Co., New York, N. Y. Filed Nov. 27, 1933.



For Bathroom Wash Pads.
Claims use since November, 1932.

CLASS 31

Filters and Refrigerators

Ser. No. 340,638. CARP & CO'S HANDELMAATSCHAPPIJ N. V., Amsterdam, Netherlands. Filed Aug. 12, 1933.

FRIGOPLATE

For Cooling and Freezing Surfaces—Namely, Plates, Slabs, Trays, Tables, and Boards, Including Their Parts and Accessories.
Claims use since July 20, 1933.

Ser. No. 342,557. TENNESSEE FURNITURE CORPORATION, Chattanooga, Tenn. Filed Oct. 16, 1933.



For Household and Store Refrigerators for the Preservation of Foodstuffs.
Claims use since Oct. 9, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 344,011. SLEEPMAKERS INCORPORATED, Chicago, Ill. Filed Nov. 22, 1933.

Sleepmaker

For Bed Springs and Mattresses.
Claims use since July 15, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 331,433. THE M. W. KELLOGG CO., New York, N. Y., and Jersey City, N. J. Filed Oct. 21, 1932.

MASTERWELD

For Articles Fabricated by Means of Electric Arc Welding for the Power, Chemical, and Oil-Refining Arts—Namely, the Boilers, Boiler Drums, Receivers, Condensers, Heat Exchangers, Evaporators, Fractionation Towers, Absorption Towers, and Reaction Retorts.
Claims use since May 28, 1931.

Ser. No. 342,037. THE NU-WAY CORPORATION, Rock Island, Ill. Filed Sept. 30, 1933.

Genii

For Oil Burners and Oil Burning Systems.
Claims use since July, 1930.

Ser. No. 342,646. THE HOTCONE GRATE COMPANY, Denver, Colo. Filed Oct. 19, 1933.

"HOTCONE"

For Furnace and Stove Grates.
Claims use since Oct. 9, 1933.

Ser. No. 344,039. THOMAS J. BRIMER, Chicago, Ill. Filed Nov. 23, 1933.

Comfortaire

For Air Conditioning Units—Vis, Heating Units, Cooling Units, and Humidifying Units.
Claims use since Nov. 15, 1933.

Ser. No. 344,194. KOLRID OIL BURNER CORPORATION, Providence, R. I. Filed Nov. 27, 1933.

KOLRID

For Fluid Fuel Burners.
Claims use since Apr. 28, 1933.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 343,196. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed Nov. 2, 1933.



The representation of the goods and all words except "Baldwin" are disclaimed apart from the other features of the mark shown in the drawing.
For Piston Rings—Namely, Slotted Inner Rings.
Claims use since Jan. 1, 1933.

Ser. No. 343,472. THE PEP BOYS—MANNY, MOE & JACK, doing business as Cornell Tire & Rubber Co., Philadelphia, Pa., and Akron, Ohio. Filed Nov. 9, 1933.



For Automobile Tube and Tire Repair Kits.
Claims use since January, 1933.

CARNEGIE LIBRARY OF ATLANTA

CLASS 36

Musical Instruments and Supplies

Ser. No. 342,079. HENRY T. PRESCOTT, doing business as Prescott Reed Co., Chicago, Ill. Filed Oct. 2, 1933.



For Clarinet and Saxophone Reeds and Oboe and Bassoon Reeds and Tubes.
Claims use since Aug. 1, 1933.

Ser. No. 344,259. ANTONIO T. DE LEMOS, Mount Vernon, N. Y. Filed Nov. 29, 1933.

AURORA

For Phonograph Records.
Claims use since Nov. 13, 1933.

CLASS 37

Paper and Stationery

Ser. No. 340,446. DAVID PENDER GROCERY COMPANY, Norfolk, Va. Filed Aug. 5, 1933.

Colonial

For Paper Napkins.
Claims use since Oct. 12, 1932.

Ser. No. 344,081. BOURJOIS, INC., New York, N. Y. Filed Nov. 24, 1933.

Springtime in Paris

For Tissue Paper Used for Skin Cleaning Purposes, Known as Cleansing Tissue.
Claims use since Nov. 7, 1933.

Ser. No. 344,083. BOURJOIS, INC., New York, N. Y. Filed Nov. 24, 1933.

Evening in Paris

For Tissue Paper Used for Skin Cleaning Purposes, Known as Cleansing Tissue.
Claims use since Nov. 7, 1933.

Ser. No. 344,099. A. KIMBALL COMPANY, New York, N. Y. Filed Nov. 24, 1933.

KIMFLEX

For Price Tags.
Claims use since Sept. 17, 1931.

Ser. No. 344,254. HENRY A. BISSON, Berlin, N. H. Filed Nov. 29, 1933.

CHAMEX

For Wiping Cloths, Towels, and Napkins Made of Paper.
Claims use since Oct. 31, 1933.

Ser. No. 344,261. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y. Filed Nov. 29, 1933.

RUBY

For Lead Pencils, Rubber Erasers, and Rubber Bands.
Claims use since 1898 on rubber erasers; since June, 1909, on lead pencils; and since Dec. 15, 1910, on rubber bands.

CLASS 38

Prints and Publications

Ser. No. 338,516. FRASHERS, Pomona, Calif. Filed June 5, 1933.



For Pictures and Photographs.
Claims use since Jan. 1, 1912, for the word "Frashers", and since May 10, 1932, for mark as shown.

Ser. No. 343,687. GEORGE E. KNAUTH, Reno, Nev. Filed Nov. 15, 1933.

Outdoor West
The Sierra Sportsman

For Periodical Magazines.
Claims use since May, 1932.

Ser. No. 344,033. C. W. HENDERSON, doing business as Nature Publishing Co., Minneapolis, Minn. Filed Nov. 22, 1933.

NUDISM
Magazine

For Magazines Published Every Month.
Claims use since Oct. 15, 1933.

Ser. No. 344,168. THE SUN PRINTING AND PUBLISHING ASSOCIATION, New York, N. Y. Filed Nov. 25, 1933.

First Aid for the Ailing House

For Serial Column Printed Weekly.
Claims use since June 18, 1932.

CLASS 39

Clothing

Ser. No. 341,823. SOMMER & KAUFMANN INC., San Francisco, Calif. Filed Sept. 21, 1933.

VICTORIAS

For Leather Shoes Only.
Claims use since Aug. 21, 1933.

Ser. No. 341,947. HERMAN D. BELLIN, New York, N. Y. Filed Sept. 28, 1933.

DE SOTO

For Hats, Caps, Bonnets, and Berets for Women.
Claims use since July 1, 1927.

Ser. No. 342,517. JOSETTE BERNARD, Coral Gables, Fla. Filed Oct. 16, 1933.

EPAULIERE

For Brassière.
Claims use since Oct. 16, 1933.

Ser. No. 342,759. W. LEWIS & COMPANY, Champaign, Ill. Filed Oct. 21, 1933.

Rochelle

No claim is made to the word "Rochelle" apart from the mark shown in the drawing.
For Women's Shoes Made of Rubber, Leather, Fabric, and/or Any Combinations Thereof.
Claims use since Sept. 1, 1932.

Ser. No. 342,922. PIONEER SUSPENDER COMPANY, Philadelphia, Pa. Filed Oct 25, 1933.

ZIPCLIP

For Belts for Outer Wear.
Claims use since Mar. 15, 1933.

Ser. No. 343,040. INVIZ-A-GRIP COMPANY, Los Angeles, Calif. Filed Oct. 30, 1933.

Inviz-a-Grip

The applicant disclaims the right to the exclusive use of the word "Grip".
For Garters Made of Elastic, Cloth, or Combinations Thereof.
Claims use since Sept. 2, 1933.

Ser. No. 343,644. THE FEDER-GREGG SHOE COMPANY, Cincinnati, Ohio. Filed Nov. 14, 1933.

PED-MET

For Boots, Shoes, and Slippers of Leather, Fabric, or Combinations Thereof, for Women and Girls.
Claims use since Sept. 19, 1933.

Ser. No. 343,698. NAVARRE COAT COMPANY, INC., New York, N. Y. Filed Nov. 15, 1933.

DRESSPORT

For Ladies' Coats and Dresses.
Claims use since Sept. 1, 1933.

Ser. No. 343,889. STRUTWEAR KNITTING COMPANY, Minneapolis, Minn. Filed Nov. 20, 1933.

ReeVersed

For Hosiery.
Claims use since Dec. 10, 1932.

Ser. No. 343,890. STRUTWEAR KNITTING COMPANY, Minneapolis, Minn. Filed Nov. 20, 1933.

Strut Reverse

For Hosiery.
Claims use since Apr. 5, 1932.

Ser. No. 344,085. BROWN DURRELL CO., Boston, Mass., and New York, N. Y. Filed Nov. 24, 1933.

Gordon
NE-FLEX

For Hosiery.
Claims use since Aug. 17, 1933.

Ser. No. 344,119. THE STERN HAT COMPANY, doing business as Arrow Importing Co., Cleveland, Ohio. Filed Nov. 24, 1933.



For Men's, Boys', Women's, and Girls' Raincoats.
Claims use since Mar. 29, 1933.

Ser. No. 344,241. ULLMAN BROTHERS, New York, N. Y. Filed Nov. 28, 1933.

DURE-DOWNY

For Men's and Boys' Topcoats and Overcoats.
Claims use since May 1, 1928.

Ser. No. 344,244. CHARLES N. WINSHIP, doing business as Winship, Bolt & Co., Wakefield, Mass. Filed Nov. 28, 1933.

WINJAC

For Boys' and Men's Coats with or without a Hood.
Claims use since Nov. 15, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 337,200. AGNES THATCHER ROSS, doing business as Emery & Ross, New York, N. Y. Filed Apr. 26, 1933.



For Combination Person and Bed Protector.
Claims use since Apr. 20, 1933.

Ser. No. 343,200. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Nov. 3, 1933.

Fleur de Laine

The right to the exclusive use of the word "Laine" is disclaimed except in association with the mark shown herein.
For Pile Fabrics in the Piece.
Claims use since Oct. 28, 1933.

Ser. No. 343,298. H. R. MALLINSON & CO., INC., New York, N. Y. Filed Nov. 6, 1933.

Nurussia

For Silk, Rayon, Cotton, Linen, Woolen, and Mixed Piece Goods.
Claims use since Oct. 15, 1933.

Ser. No. 343,441. THE ESMOND MILLS, New York, N. Y. Filed Nov. 9, 1933.

MARCO POLO

For Cotton Piece Goods.
Claims use since Oct. 1, 1933.

Ser. No. 343,516. W. R. MCKAY & CO., INC., New York, N. Y. Filed Nov. 10, 1933.

"DAY-LEE"

For Fabrics in the Piece of Silk, Cotton, Wool, Rayon, and/or Combinations of the Same.
Claims use since May 25, 1932.

Ser. No. 343,566. THE MILLVILLE MANUFACTURING COMPANY, Philadelphia, Pa. Filed Nov. 11, 1933.

Mernized

For Cotton Piece Goods.
Claims use since Nov. 3, 1933.

Ser. No. 343,571. POWDRELL & ALEXANDER, INC., Danielson, Conn. Filed Nov. 11, 1933.

MARVELNET

For Woven Curtain Materials.
Claims use since December, 1932.

Ser. No. 343,572. POWDRELL & ALEXANDER, INC., Danielson, Conn. Filed Nov. 11, 1933.

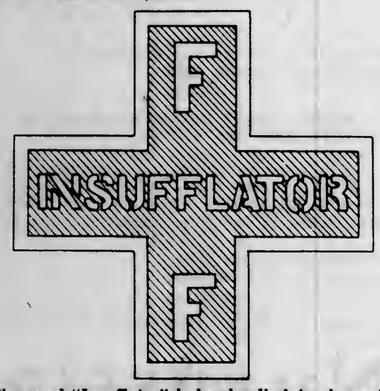
SEANET

For Woven Curtain Materials.
Claims use since June, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 331,660. FOREGGER COMPANY, INC., New York, N. Y. Filed Oct. 27, 1932.



The word "Insufflator" is hereby disclaimed apart from the mark as shown on the drawing.
The drawing is lined for green.
For Resuscitation Outfit.
Claims use since Apr. 1, 1932.

Ser. No. 342,977. LAWRENCE J. MCFADDIN, Cedar Rapids, Iowa. Filed Oct. 27, 1933.



The drawing is lined to indicate blue.
For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Sept. 29, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 343,248. NATIONAL FRUIT FLAVOR COMPANY, INC., New Orleans, La. Filed Nov. 4, 1933.

KORNMIX

For Non-Alcoholic Maltless Fruit Beverage Sold as a Soft Drink and Concentrates for Making Same.
Claims use since Nov. 1, 1932.

Ser. No. 343,310. TRY-ME BOTTLING CO., Washington, D. C. Filed Nov. 6, 1933.

Dixie Rock

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since April, 1933.

Ser. No. 343,894. WALGREEN CO., Chicago, Ill. Filed Nov. 20, 1933.

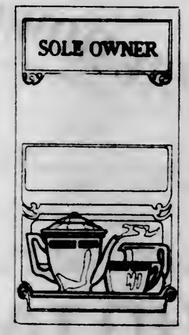
CHEMM

For Non-Alcoholic Maltless Beverages Sold as Soft Drinks.
Claims use since Oct. 31, 1933.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 295,967. WEATHERSBY-BRUNNER CO., Memphis, Tenn. Filed Feb. 12, 1930.



No claim is made to the words "Sole Owner" apart from the mark as shown.
For Coffee.
Claims use since Jan. 10, 1930.

Ser. No. 318,351. COLLEGE INN FOOD PRODUCTS CO., Chicago, Ill. Filed Aug. 24, 1931.

Hi- Vita

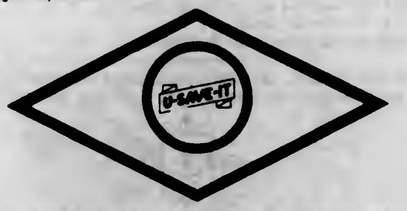
For Tomato Juice and Tomato Juice Cocktail.
Claims use since Aug. 15, 1931.

Ser. No. 328,923. OMAHA FLOUR MILLS COMPANY, Omaha, Nebr. Filed July 20, 1932.



Applicant hereby disclaims any right under this registration to the exclusive use of the words "Vitamin" and "Food" and "Guard Health and Vitality with Vitamins B and G" apart from the mark as shown in the drawing. The picture of the girl appearing in the mark is fanciful.
For Wheat Breakfast Cereal.
Claims use since Apr. 4, 1931.

Ser. No. 330,782. CLAUDE C. COLBERT, doing business as C. C. Colbert & Company, Okolona, Miss. Filed Sept. 29, 1932.



For Canned Peaches, Pears, Apricots, Pimentos, Mayonnaise, Coffee, Tomatoes, Peas, Corn, Asparagus.
Claims use since July 16, 1932.

Ser. No. 331,068. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Oct. 7, 1932.



For Tea.
Claims use since 1918.

Ser. No. 331,690. L. P. LARSON JR. COMPANY, Newport, R. I. Filed Oct. 29, 1932.

L. P. Larson Jr.

LARSON'S K.Y.B. Peptomint GUM

"Better Chewing Gum"

The words "Better Chewing Gum" do not form a part of the registration sought apart from the mark shown in the drawing. No claim is made to the words "Peptomint" and "Gum" for registration purposes apart from the mark shown in the drawing. The signature on the label is a facsimile of L. P. Larson, jr., president of the applicant corporation.
For Chewing Gum.
Claims use since July 27, 1911.

Ser. No. 331,941. ANDREW N. ALEXANDER, doing business as A. Alexander, New York, N. Y. Filed Nov. 7, 1932.



For Flavoring Oils, Flavoring Extracts, Flavoring Compounds, All for Food Purposes; Marshmallow Topping; Chocolate, Vanilla, Lemon, Orange, and Pineapple Syrups, All for Food Purposes; Flavoring Emulsions for Food Purposes; Marmalades, Malted Milk Powder; Preserved Fruits, Jams, and Jellies, Each Consisting—Namely, of Cherries, Pineapples, Figs, Apples, Peaches, Dates, Pears, and Plums; Cocoa, Coffee, Gelatin Desserts, Food Gelatin, and Chocolate in Cake or Lump Form.
Claims use since July 1, 1931.

Ser. No. 339,751. GALVESTON SHRIMP, INC., Galveston, Tex. Filed July 14, 1933.

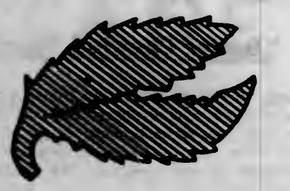
SEA DAINTY

For Fresh Shrimp.
Claims use since May 20, 1932.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 339,943. EDWARD I. MARGOLIS, doing business as The L. D. Margolis Co., Boston, Mass. Filed July 20, 1933.

TWYNLEAF



The lining appearing on the drawing indicates the color green.
For Tea.
Claims use since Oct. 2, 1929.

Ser. No. 340,308. CERTIFIED EXTRACTS, INC., New York, N. Y. Filed Aug. 2, 1933.

Smoothie

For Powder Preparation Used in Making Ice Cream.
Claims use since May 25, 1932.

Ser. No. 342,363. STANDARD MILLING COMPANY, New York, N. Y. Filed Oct. 11, 1933.

ARISTOS

For Mixed Feed and Wheat Scourings and Screenings.
Claims use since Feb. 16, 1918.

Ser. No. 342,455. RIVERBANK CANNING COMPANY, Riverbank, Calif. Filed Oct. 13, 1933.

MADONNA

For Canned Fruits, Canned Vegetables, Canned Fish, Canned Olives, Canned Tomato Paste, Olive Oil, Fresh Deciduous Fruits, Fresh Vegetables, Fresh Grapes, Grape Syrup for Food Purposes, Ice Cream, and Condensed Milk.
Claims use since Jan. 22, 1923.

Ser. No. 343,013. DOMINICK SPARVIERI, Hoboken, N. J. Filed Oct. 28, 1933.



For Olive Oil.
Claims use since 1926.

Ser. No. 343,150. NEW CONE CO., Chicago, Ill. Filed Nov. 2, 1933.



No claim is made to the representation of a cone apart from the mark as shown in the drawing.
For Ice-Cream Cones.
Claims use since Feb. 2, 1933.

Ser. No. 343,505. JOSEPH GOLUB, doing business as Fannee Chocolate Co., Brooklyn, N. Y. Filed Nov. 10, 1933.

Fannée

For Candy.
Claims use since Oct. 10, 1933.

Ser. No. 343,777. KITCHEN PRODUCTS, INC., Buffalo, N. Y. Filed Nov. 17, 1933.

SUNSPUN

For Salad Dressing.
Claims use since July 25, 1933.

Ser. No. 343,836. NUTRITINE HEALTH PRODUCTS, INC., New York, N. Y. Filed Nov. 18, 1933.

NUTRITINE

For Food Drink.
Claims use since Nov. 1, 1933.

Ser. No. 343,914. JOSEPH D'AGOSTINO, doing business as Hi-Jump Fruit Co., Modesto, Calif. Filed Nov. 21, 1933.

GOOD SHOT

For Fresh Grapes, Fresh Deciduous Fruits, Fresh Vegetables.
Claims use since Sept. 10, 1933.

Ser. No. 344,197. BERNARDO LO CURTO, doing business as R. Lo Curto, New York, N. Y. Filed Nov. 27, 1933.

LA FELICITA'

For Canned Vegetables.
Claims use since Nov. 16, 1933.

CLASS 47

Wines

Ser. No. 340,711. W. & A. GILBEY, LIMITED, London, England. Filed Aug. 15, 1933. Under 10-year proviso.

GILBEY'S

For Wines.
Claims use since 1857.

Ser. No. 341,839. R. LOPEZ DE HEREDIA VIÑA TONDONIA S. A., Madrid, Spain. Filed Sept. 23, 1933.



No claim is made to any of the notations appearing on the drawing with the exception of applicants corporate name and initials and the word "Tondonia".
For Wines.
Claims use since Jan. 20, 1914.

Ser. No. 342,870. T. G. BRIGHT & CO. LIMITED, Stamford, Ontario, Canada. Filed Oct. 25, 1933.



Trade-mark consists of a white label with silver, red, black, and white crest, black printing with the name "Bright's Concord" as the brand, and with other words as shown on the drawing, no claim being made to the representation of a label per se and/or to any of the words appearing on the drawing apart from the mark as shown.
For Wine.
Claims use since 1911.

Ser. No. 342,871. T. G. BRIGHT & CO. LIMITED, Stamford, Ontario, Canada. Filed Oct. 25, 1933.



Trade-mark consists of a white label with silver, red, black, and white crest, black printing with the name "Bright's Catawba" as the brand, and with other words as shown on the drawing, no claim being made to the representation of a label per se and/or to any of the words appearing on the drawing apart from the mark as shown.
For Wine.
Claims use since 1911.

Ser. No. 342,872. T. G. BRIGHT & CO. LIMITED, Stamford, Ontario, Canada. Filed Oct. 25, 1933.



Trade-mark consists of a white label with gold border and gold, red, black, and white crest, black printing with the name "Hermit Port" as the brand, and with other words as shown on the drawing, no claim being made to the representation of a label per se and/or to the words "Port", "Bottled by the Proprietors", and "Niagara Falls" appearing in the address.
For Wine.
Claims use since 1911.

Ser. No. 342,873. T. G. BRIGHT & CO. LIMITED, Stamford, Ontario, Canada. Filed Oct. 25, 1933.



Trade-mark consists of a white label with gold border and gold, red, black, and white crest, black printing with the name "Hermit Sherry" as the brand, with other words as shown on the drawing, no claim being made to the representation of a label per se and/or to the words "Sherry", "Bottled by the Proprietors", and "Niagara Falls" appearing in the address.

For Wine.
Claims use since 1911.

Ser. No. 343,755. HERBERT W. WARDEN, JR., Philadelphia, Pa. Filed Nov. 16, 1933.

MARQUIS

For Wines.
Claims use since Oct. 23, 1933.

Ser. No. 343,843. GEORGE BENZ SONS, INC., St. Paul, Minn. Filed Nov. 14, 1933.



The drawing is lined for red.
For Wine.
Claims use since March, 1901.

Ser. No. 344,006. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Nov. 22, 1933.



For Wines.
Claims use since 1900.

Ser. No. 344,041. BRITISH DISTILLERS CORPORATION OF NEW YORK, New York, N. Y. Filed Nov. 23, 1933.

RED SEAL

For Wines.
Claims use since August, 1933.

Ser. No. 344,158. ROBERT T. LAUGHLIN, Chicago, Ill. Filed Nov. 25, 1933.

PREWAR

For Wines.
Claims use since Nov. 3, 1933.

Ser. No. 344,159. ROBERT T. LAUGHLIN, Chicago, Ill. Filed Nov. 25, 1933.

PRE-WAR

For Wines.
Claims use since Nov. 3, 1933.

Ser. No. 344,163. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Nov. 25, 1933.

DIAMOND JUBILEE

1837 1897

For Wines.
Claims use since 1895.

Ser. No. 344,182. FREDONIA PRODUCTS CO., INC., Fredonia, N. Y. Filed Nov. 27, 1933.

OLD PIONEER

For Wines.
Claims use since Nov. 1, 1933.

Ser. No. 344,183. FREDONIA PRODUCTS CO., INC., Fredonia, N. Y. Filed Nov. 27, 1933.

OLD SETTLEMENT

For Wines.
Claims use since Nov. 1, 1933.

Ser. No. 344,185. GOLDEN STATE WINES, INC., San Francisco, Calif. Filed Nov. 27, 1933.

REX

For Wines.
Claims use since Oct. 30, 1933.

Ser. No. 344,229. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y. Filed Nov. 28, 1933.

BALBOA

For Wines.
Claims use since June 16, 1933.

Ser. No. 344,236. POL ROGER & Co., Epernay, France. Filed Nov. 28, 1933. Under 10-year proviso.



For Champagne Wines.
Claims use since 1849.

Ser. No. 344,237. SOCIETE ANONYME CHAMPAGNE POMMERY & GRENO, Reims, France. Filed Nov. 28, 1933. Under 10-year proviso.



For Champagne Wines and Sparkling Wines.
Claims use since 1856.

Ser. No. 344,238. SOCIETE ANONYME CHAMPAGNE POMMERY & GRENO, Reims, France. Filed Nov. 28, 1933. Under 10-year proviso.



For Champagne Wines and Sparkling Wines.
Claims use since 1856.

Ser. No. 344,307. ITALIAN SWISS COLONY, San Francisco, Calif. Filed Dec. 1, 1933.

TABLE D'HÔTE

For Wines.
Claims use since Oct. 28, 1933.

Ser. No. 344,315. AMERICAN WINE ASSOCIATION, Chicago, Ill. Filed Dec. 1, 1933.

Spirit of '76

For Wine.
Claims use since Nov. 1, 1933.

Ser. No. 344,318. CELLA BROTHERS, INC., New York, N. Y. Filed Dec. 1, 1933. Under 10-year proviso.

CELLA

For Still Wines.
Claims use since 1893.

Ser. No. 344,377. ANDERSON, DOBSON & CO. LTD., London, England. Filed Dec. 2, 1933. Under 10-year proviso.

KINGSTON
&
SONS.

For Port Wines.
Claims use since 1894.

CLASS 48

Malt Beverages and Liquors

Ser. No. 338,108. PFEIFFER BREWING COMPANY, Detroit, Mich. Filed May 22, 1933. Under 10-year proviso.

Pfeiffer's

For Malt Beverages with Not More Than the Legal Alcoholic Content and Liquid Malt for Making Such Beverages.
Claims use since March, 1889.

Ser. No. 340,571. BRAUEREI J. G. REIF A.-G., Nuremberg, Germany. Filed Aug. 10, 1933.



The drawing is lined for shading. No claim is made to the words appearing on the drawing, with the exception of the word "Siechen" and the name of the applicant corporation.

For Beer.
Claims use since July 8, 1933.

Ser. No. 340,643. FELDMANN BEVERAGE CO., INC., New York, N. Y. Filed Aug. 12, 1933.

MARCA ESTRELLA

No claim is made to the word "Marca" apart from the mark shown in the drawing.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Mar. 1, 1929.

Ser. No. 343,626. PRIMA COMPANY, Chicago, Ill. Filed Nov. 13, 1933.

RIENZI

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since January, 1891.

Ser. No. 343,631. UNITED BREWING COMPANY, Newark, N. J. Filed Nov. 13, 1933.

OLDBURGER

For Beer.
Claims use since Oct. 21, 1933.

Ser. No. 344,143. FRESNO BREWING COMPANY, Fresno, Calif. Filed Nov. 25, 1933.

MT. WHITNEY

For Beer and Malt Beverages.
Claims use since Nov. 10, 1933.

Ser. No. 344,156. ROBERT T. LAUGHLIN, Chicago, Ill. Filed Nov. 25, 1933.

PRE-WAR

For Beer.
Claims use since Nov. 6, 1933.

Ser. No. 344,157. ROBERT T. LAUGHLIN, Chicago, Ill. Filed Nov. 25, 1933.

PREWAR

For Beer.
Claims use since Nov. 3, 1933.

Ser. No. 344,310. AMERICAN BREWERY, INCORPORATED, Baltimore, Md. Filed Dec. 1, 1933.

OLD BARON



For Malt Beverages of Legal Alcoholic Content.
Claims use since Nov. 29, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 339,210. HANDELSVENNOOTSCHAP ONDER DE FIRMA CATZ & ZOON VAN PREKEL, Groningen, Netherlands. Filed June 28, 1933. Under 10-year proviso.

CATZ-ELIXER

For Distilled Bitters.
Claims use since Dec. 1, 1861.

Ser. No. 340,352. JAMES PRESTON HARDIE, doing business as J. & W. Hardie, Edinburgh, Scotland. Filed Aug. 3, 1933. Under 10-year proviso.



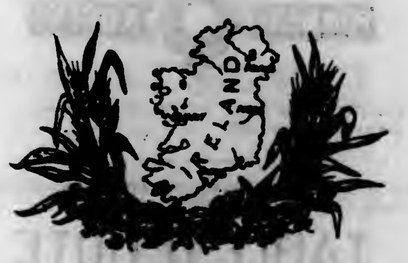
For Whisky.
Claims use since 1889.

Ser. No. 340,712. W. & A. GILBEY, LIMITED, London, England. Filed Aug. 16, 1933. Under 10-year proviso.

GILBEY'S

For Whiskey, Gins, Cocktails, and Liqueurs.
Claims use since 1857.

Ser. No. 341,950. CORK DISTILLERIES COMPANY LIMITED, Morrisons Island, Cork, Ireland. Filed Sept. 28, 1933. Under 10-year proviso.



For Whisky.
Claims use since 1868.

Ser. No. 341,968. C. F. HERNANDEZ, S. EN C., Mexico, Mexico. Filed Sept. 28, 1933.



The drawing is lined for green, red, and blue. No claim is made to any of the words appearing on the drawing with the exception of the name "Berreteaga."
For Rum.
Claims use since 1901.

Ser. No. 341,969. C. F. HERNANDEZ, S. EN C., Mexico, Mexico. Filed Sept. 28, 1933.



The drawing is lined for red and green. No claim is made to any of the words appearing on the drawing with the exception of the name "Berreteaga."
For Rum.
Claims use since 1901.

Ser. No. 342,361. HENRY SIMPSON & COMPANY, LIMITED, Glasgow, Scotland. Filed Oct. 11, 1933.

HENRY SIMPSON & Co. LTD.

O.V.L.

OLD VATTED LIQUEUR

SCOTCH WHISKY

Henry Simpson & Co. Ltd.

London & Glasgow.

The drawing is lined for shading. No claim is made to the words "Old Vatted Liqueur", "Scotch Whisky", "London & Glasgow", and "Guaranteed Distilled Blended & Bottled in Scotland". The script signature shown on the drawing is that of John A. Rose, a director of the corporation.
For Whisky.
Claims use since June 26, 1922.

Ser. No. 342,530. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Oct. 16, 1933.

G.B

G.BARTELS

No claim is made to the name "G. Bartels" apart from the mark shown in the drawing.
For Whiskey, Brandy, Gin, and Other Potable Distilled Spirits.
Claims use since Sept. 13, 1932.

Ser. No. 342,953. SOWERS BROTHERS, Baltimore, Md. Filed Oct. 26, 1933.

LAUREL VALLEY

PURE CORN WHISKEY



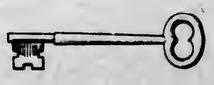
SOWERS BROTHERS
BALTIMORE, MD.

No claim is made to any of the words appearing on the drawing with the exception of the name "Laurel Valley".
For Corn Whiskey.
Claims use since Feb. 1, 1900.

Ser. No. 342,954. SOWERS BROTHERS, Baltimore, Md. Filed Oct. 26, 1933.

OLD KEY

PURE CORN WHISKEY



SOWERS BROTHERS
BALTIMORE, MD.

No claim is made to any of the words appearing on the drawing with the exception of "Old Key".
For Corn Whiskey.
Claims use since June 1, 1898.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 343,073. LAIRD & COMPANY, Scobeyville and Eatontown, N. J. Filed Oct. 31, 1933.



For Brandy.
Claims use since Oct. 23, 1933.

Ser. No. 343,103. TRINIDAD IMPORT & EXPORT CO., LTD., Port of Spain, Trinidad. Filed Oct. 31, 1933.



The drawing is lined for red. No claim is made to the words "Special Cocktail Rum" and Trinidad, B. W. I."
For Rum.
Claims use since Aug. 12, 1932.

Ser. No. 343,411. EUGENE ROGÉE-FROMY, doing business as Maison Fromy-Rogee & Cie, St. Jean d'Angely, France. Filed Nov. 8, 1933.



No claim is made to any of the wording appearing on the drawing with the exception of the names "Fromy's", and "Fromy, Rogee & Co."
For Cognacs and Brandies.
Claims use since July 28, 1933.

Ser. No. 343,555. JOS. S. FINCH & COMPANY, doing business as Jas. E. Pepper & Co., New York, N. Y. Filed Nov. 11, 1933. Under 10-year proviso.

Old Henry Clay

Jas. E. Pepper & Co.

For Whiskey, Gin, and Other Potable Distilled Spirits.
Claims use since 1780.

Ser. No. 343,602. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 13, 1933.

Big Hollow

For Whiskey and Other Potable Distilled Spirits.
Claims use since 1846.

Ser. No. 343,603. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 13, 1933.

ECHO SPRING

For Whiskey, Gin, and Other Distilled Potable Spirits.
Claims use since 1884.

Ser. No. 343,624. OSTRUCON CHEMICAL COMPANY, INC., New York, N. Y. Filed Nov. 13, 1933.

HIGH-HAT



For Alcoholic Bitters and Other Potable Distilled Spirits.
Claims use since June 1, 1932.

Ser. No. 343,634. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Nov. 14, 1933.

"Tip-Top"

For Whiskey.
Claims use since 1885.

Ser. No. 343,663. REID WRIGHT & HOLLOWAY (DISTILLERS) LIMITED, London, England. Filed Nov. 14, 1933.



Applicant disclaims the words "Special Liqueur Scotch Whisky, Sole Proprietors, London & Glasgow", except in the precise relation and association in which the same appears herein.
For Scotch Whisky.
Claims use since Dec. 31, 1923.

Ser. No. 343,670. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Nov. 15, 1933. Under 10-year proviso.

Edgewood

For Whiskey.
Claims use since 1881.

Ser. No. 343,703. JAS. E. PEPPER & COMPANY, Lexington, Ky. Filed Nov. 15, 1933. Under 10-year proviso.

Old Fireside

For Whiskey and Other Potable Distilled Spirits.
Claims use since 1877.

Ser. No. 343,788. JAS. E. PEPPER & COMPANY, Lexington, Ky. Filed Nov. 17, 1933.

MAYFLOWER

For Whiskey and Other Potable Distilled Spirits.
Claims use since 1883.

Ser. No. 343,845. GEORGE BENZ SONS, INC., St. Paul, Minn. Filed Nov. 20, 1933.



The drawing is lined for blue.
For Whisky.
Claims use since 1876.

Ser. No. 343,851. CALLIS & HAMMOND, Baltimore, Md. Filed Nov. 20, 1933.

Chesapeake

For Rye Whiskey, Blended Whiskey, and Bourbon Whiskey.
Claims use since Oct. 30, 1933.

Ser. No. 343,853. CALLIS & HAMMOND, Baltimore, Md. Filed Nov. 20, 1933.

Lake Roland

For Blended Whiskey, Bourbon Whiskey, and Rye Whiskey.
Claims use since Oct. 27, 1933.

Ser. No. 343,920. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 21, 1933.

ROYAL CLUB

No claim is made to the word "Club" apart from the mark as shown in the drawing.
For Whiskey and Other Potable Distilled Spirits.
Claims use since June 12, 1933.

Ser. No. 343,960. CALIFRUIT WINERIES, INC., New York, N. Y. Filed Nov. 22, 1933.

Old Hunt Club

No claim is made to the word "Club" apart from the mark shown in the drawing.
For Whiskey and Other Potable Distilled Spirits.
Claims use since Apr. 15, 1933.

Ser. No. 343,961. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Classic

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,962. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Charter Oak

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,964. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Gold Gables

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,965. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Golden Dawn

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,966. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Old Andy

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,969. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Old Guild

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,970. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Old Treasure

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,971. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Patrician

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,973. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Publicker

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,974. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Silver Shield

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,975. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Snug Harbor

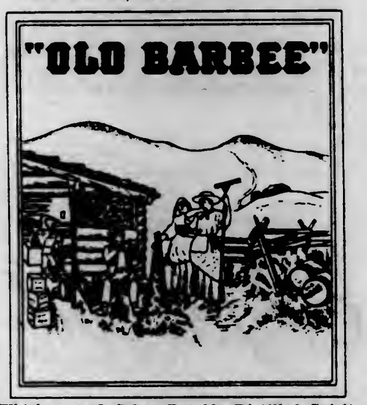
For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 343,978. DOWLING BROTHERS DISTILLING CO., INCORPORATED, Burgin, Ky. Filed Nov. 22, 1933.

DOUBLE SPRINGS

For Whiskey.
Claims use since Jan. 28, 1933.

Ser. No. 343,981. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 22, 1933.



For Whiskey, and Other Potable Distilled Spirits.
Claims use since January, 1924.

Ser. No. 343,985. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y. Filed Nov. 22, 1933.

Old Constitution

For Brandy.
Claims use since Nov. 14, 1933.

Ser. No. 344,000. OLD GILMORE DISTILLERY, INC., New York, N. Y. Filed Nov. 22, 1933.

HIGH PEAK

For Whiskey.
Claims use since Oct. 5, 1932.

Ser. No. 344,020. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 22, 1933.

BLACK JACK

For Whiskey.
Claims use since July 1, 1930.

Ser. No. 344,021. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 22, 1933.

Golden Slipper

For Gin.
Claims use since Sept. 15, 1930.

Ser No. 344,022. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 22, 1933.

MAIL POUCH

For Whiskey.
Claims use since July 1, 1930.

Ser. No. 344,023. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 22, 1933.

Old Andy

For Whiskey.
Claims use since May 1, 1928.

Ser. No. 344,051. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 23, 1933.

CHANCELLOR

For Whiskey and Other Potable Distilled Spirits.
Claims use since Oct. 1, 1892.

Ser. No. 344,063. SCHENLEY PRODUCTS COMPANY, New York, N. Y. Filed Nov. 23, 1933.

CREAM OF KENTUCKY

For Whiskey and Other Potable Distilled Spirits.
Claims use since Oct. 1, 1923.

Ser. No. 344,084. BRIAR CREEK DISTILLING CO., New York, N. Y. Filed Nov. 24, 1933.

OLD
BRIAR CREEK

Pure Rye
WHISKEY

BRIAR CREEK DISTILLING CO.
U. S. A.

Applicants make no claim to the use of the expressions "Pure Rye Whiskey" and "Briar Creek Distilling Co., U. S. A." apart from the mark as shown.
For Pure Rye Whiskey.
Claims use since Nov. 14, 1933.

Ser. No. 344,087. FELTON & SON, INCORPORATED, Boston and South Boston, Mass. Filed Nov. 24, 1933.



No claim is made to the exclusive use of the word "Rum" apart from the mark as shown.
For Rum.
Claims use since Nov. 14, 1933.

Ser. No. 344,108. FRANK C. REILLY, New York, N. Y. Filed Nov. 24, 1933.

Gleneagles

For Whiskey.
Claims use since Feb. 6, 1933.

Ser. No. 344,109. FRANK C. REILLY, New York, N. Y. Filed Nov. 24, 1933.

St. Andrews

For Whiskey.
Claims use since Feb. 6, 1933.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 344,145. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 25, 1933. Under 10-year proviso.

OLD SCHENLEY

OLD SCHENLEY

For Whiskey and Other Potable Distilled Spirits.
Claims use since December, 1892.

Ser. No. 344,161. OLD DUTCH MILLS, INC., New York, N. Y. Filed Nov. 25, 1933.

CRUSADER

For Whiskey.
Claims use since Oct. 10, 1933.

Ser. No. 344,181. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 27, 1933.

SIX STARS

For Whiskey, Gin, and Other Potable Distilled Spirits.
Claims use since Apr. 17, 1928.

Ser. No. 344,201. THE OLD QUAKER COMPANY, New York, N. Y., and Lawrenceburg, Ind. Filed Nov. 27, 1933. Under 10-year proviso.

OLD DEARBORN

For Whiskey, Gin, and Other Potable Distilled Spirits.
Claims use since 1848.

Ser. No. 344,205. RUMBA PRODUCTS, INC., New York, N. Y. Filed Nov. 27, 1933.

RUMBA

For Rum, Brandy, Gin, and Other Potable Distilled Liquors.
Claims use since Nov. 8, 1933.

Ser. No. 344,220. ROBERT BROWN, LIMITED, Glasgow, Scotland. Filed Nov. 28, 1933.

Old Priory

For Whisky.
Claims use since 1887.

Ser. No. 344,226. JOHN EXSHAW & Co., Bordeaux, France. Filed Nov. 28, 1933. Under 10-year proviso.

John Exshaw

The signature shown in the drawing is the signature of John Exshaw, deceased.
For Brandy.
Claims use since 1894.

Ser. No. 344,227. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y. Filed Nov. 28, 1933.

COMMUNITY

For Brandy.
Claims use since Nov. 22, 1933.

Ser. No. 344,228. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y. Filed Nov. 28, 1933.

La Loma

For Brandy.
Claims use since Nov. 15, 1933.

Ser. No. 344,242. WASHINGTON DISTILLING & RECTIFYING CORPORATION, New York, N. Y. Filed Nov. 28, 1933.

W

PALL MALL
DRY GIN

WASHINGTON DISTILLING AND RECTIFYING CORP.
U. S. A.

No claim is made to the words "Dry Gin" and "Washington Distilling and Rectifying Corporation, U. S. A." apart from the mark as shown.
For Gin.
Claims use since Nov. 14, 1933.

Ser. No. 344,262. JOS. S. FINCH & COMPANY, doing business as Eastern Distillers Syndicate, New York, N. Y. Filed Nov. 29, 1933.

Old Father Pitt

For Whiskey and Potable Spirits.
Claims use since May 31, 1932.

Ser. No. 344,275. HILL, THOMSON & Co., Edinburgh, Scotland, and London, England. Filed Nov. 29, 1933.

HILLTOP

For Whiskey.
Claims use since January, 1908.

Ser. No. 344,276. SOLOMON C. HERBST, doing business as The Chancellor Cocktail Co., Milwaukee, Wis. Filed Nov. 29, 1933.

CHANCELLOR

For Cocktails.
Claims use since 1870.

Ser. No. 344,296. SOCIETE ANONYME JULES ROBIN, ANCIENNE MAISON JULES ROBIN ET CIE, Cognac, France. Filed Nov. 29, 1933. Under 10-year proviso.



For Brandies.
Claims use since 1862.

Ser. No. 344,305. WILLIAM WHITELEY & Co., INC., Dover, Del. Filed Nov. 29, 1933.

HOUSE OF LORDS

For Whisky.
Claims use since 1910.

Ser. No. 344,311. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 1, 1933.

Babbling Brook

For Whiskey.
Claims use since 1923.

Ser. No. 344,312. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 1, 1933. Under 10-year proviso.



Old Kentucky Colonel

For Whiskey.
Claims use since 1892.

Ser. No. 344,314. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 1, 1933.



"Tea Kettle"

For Whiskey.
Claims use since 1892.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 344,335. KRAUS BROS. & CO., INCORPORATED, New York, N. Y. Filed Dec. 1, 1933.

RAMSAY'S

GOLD STRIPE SCOTCH

No claim is made to the word "Scotch".
For Whiskies and Other Potable Distilled Spirits.
Claims use since June, 1901.

Sec. No. 344,349. OSTRUCON CHEMICAL COMPANY, INC., New York, N. Y. Filed Dec. 1, 1933.

HIGH-HAT

For Alcoholic Bitters and Other Potable, Distilled Spirits.
Claims use since June 1, 1932.

Ser. No. 344,350. OSTRUCON CHEMICAL COMPANY, INC., New York, N. Y. Filed Dec. 1, 1933.



For Alcoholic Bitters and Other Potable Distilled Spirits.
Claims use since June 1, 1932.

Ser. No. 344,351. OSTRUCON CHEMICAL COMPANY, INC., New York, N. Y. Filed Dec. 1, 1933.

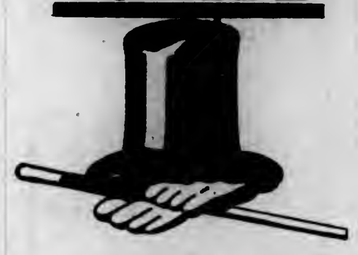
SILK-HAT



For Alcoholic Bitters and Other Potable Distilled Spirits.
Claims use since June 1, 1932.

Ser. No. 344,352. OSTRUCON CHEMICAL COMPANY, INC., New York, N. Y. Filed Dec. 1, 1933.

TOP-HAT



For Alcoholic Bitters and Other Potable Distilled Spirits.
Claims use since June 1, 1932.

Ser. No. 344,363. SPITZER BROS., INC., New York, N. Y. Filed Dec. 1, 1933.

RED SEAL

For Whiskey and Brandy.
Claims use since Nov. 21, 1933.

Ser. No. 344,375. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 2, 1933. Under 10-year proviso.

Atherton

For Whiskey.
Claims use since 1867.

Ser. No. 344,562. W. G. BOND, INC., Baltimore, Md. Filed Dec. 7, 1933.



HIGH HAT

For Gin.
Claims use since Dec. 5, 1933.

Ser. No. 344,589. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y. Filed Dec. 7, 1933.



For Brandy.
Claims use since Aug. 10, 1894.

Ser. No. 344,595. JOSEPH KRIEG-FINK COMPANY, Glen Ridge, N. J. Filed Dec. 7, 1933.

PALL MALL

For Gin.
Claims use since 1908.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 341,386. ANDERSEN & BRUUNS FABRIKER A/S, Copenhagen, Denmark. Filed Sept. 6, 1933.

ALU-VIN

For Bottle Capsules and Closures.
Claims use since Aug. 6, 1932.

Ser. No. 342,631. ATHLETIC EMBLEM CORPORATION, New York, N. Y. Filed Oct. 19, 1933.



No claim is made to the words "Athletic Emblem" apart from the other features of the mark shown in the drawing.
For Athletic Insignias and Letters, Pennants, and Emblems Made of Felt.
Claims use since February, 1931.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JANUARY 9, 1934

309,192. MODELING CLAY. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed July 20, 1933. Serial No. 339,921. PUBLISHED OCTOBER 31, 1933. Class 1.

309,193. CLEANSER FOR GENERAL HOUSEHOLD, LAUNDRY, AND INDUSTRIAL USE. LEHN & FINK, INC., Bloomfield, N. J.
Filed July 21, 1933. Serial No. 339,973. PUBLISHED OCTOBER 31, 1933. Class 4.

309,194. COLORING STARCH. THE COLORING STARCH CO. INC., Chicago, Ill.
Filed July 13, 1933. Serial No. 339,708. PUBLISHED OCTOBER 24, 1933. Class 6.

309,195. WINES. DEVO W. PUTNAM, doing business as Hammondsport Wine Co., Hammondsport, N. Y.
Filed July 18, 1933. Serial No. 339,878. PUBLISHED OCTOBER 31, 1933. Class 47.

309,196. GASOLINE, LUBRICATING OILS, AND LUBRICATING GREASES, EXCLUSIVE OF KEROSENE. JAMES A. WATT, doing business as Petroleum Oil Interests, Inc., Oklahoma City, Okla.
Filed July 10, 1933. Serial No. 339,618. PUBLISHED OCTOBER 31, 1933. Class 15.

309,197. AUTO BODY CLEANER, METAL POLISH, BRAKE DRESSING, ETC. THE TEXAS COMPANY, New York, N. Y.
Filed July 12, 1933. Serial No. 339,689. PUBLISHED OCTOBER 31, 1933. Class 4.

309,198. SILKS IN THE PIECE. KRONE-JACOBSON INC., New York, N. Y.
Filed July 7, 1933. Serial No. 339,566. PUBLISHED OCTOBER 24, 1933. Class 42.

309,199. ELECTRICAL CAR HEATERS, ELECTRIC FUSES, BATTERY TERMINAL POSTS, SPARK PLUGS, ELECTRICAL CIGAR LIGHTERS, FLASHLIGHT BATTERIES, LAMP BULBS, BATTERY HANDLES, BATTERY CASES, ELECTRIC WINDSHIELD DEFROSTERS, BATTERY CHARGERS, STORAGE BATTERIES, BATTERY CABLES, BATTERY CLAMPS, BATTERY TERMINAL OILING PADS, AND INSULATING TAPE. THE TEXAS COMPANY, New York, N. Y.
Filed July 10, 1933. Serial No. 339,612. PUBLISHED OCTOBER 31, 1933. Class 21.

309,200. GUM, GLUE, OR PASTE, BEING ADHESIVES OBTAINED FROM THE SPENT LYES IN THE MANUFACTURE OF CELLULOSE, MORE ESPECIALLY FROM WASTE SULPHITE LYE. ZELLSTOFFFABRIK WALDHOF, Mannheim-Waldhof, Germany.
Filed July 3, 1933. Serial No. 339,483. PUBLISHED OCTOBER 24, 1933. Class 5.

309,201. MONOACID PHOSPHATE OF CALCIUM. RICHARD D. FURNISH, Scobey, Mont.
Filed July 5, 1933. Serial No. 339,492. PUBLISHED OCTOBER 24, 1933. Class 6.

309,202. TANNING MATERIALS AND CHEMICAL PRODUCTS SUITABLE FOR TANNING PURPOSES. GEIGY COMPANY, INC., New York, N. Y.
Filed August 22, 1933. Serial No. 340,916. PUBLISHED OCTOBER 24, 1933. Class 6.

309,203. PET FOODS. THE JUSTRITE COMPANY, Milwaukee, Wis.
Filed July 3, 1933. Serial No. 339,461. PUBLISHED AUGUST 22, 1933. Class 46.

309,204. DENATURANTS. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed August 21, 1933. Serial No. 340,902. PUBLISHED OCTOBER 24, 1933. Class 6.

309,205. POLISH AND CLEANER FOR AUTOMOBILES, FURNITURE, WOODWORK, AND PAINTED, VARNISHED, OR LACQUERED SURFACES. HYMAN E. SHERMAN, Chicago, Ill.
Filed August 21, 1933. Serial No. 340,908. PUBLISHED OCTOBER 24, 1933. Class 16.

309,206. COSMETIC PREPARATIONS. HOLLY LESLIE, INC., Douglaston, Long Island, N. Y.
Filed August 21, 1933. Serial No. 340,886. PUBLISHED OCTOBER 24, 1933. Class 6.

309,207. DENATURANTS. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed August 21, 1933. Serial No. 340,901. PUBLISHED OCTOBER 24, 1933. Class 6.

309,208. PORT WINE. FEUERHERD BROTHERS & COMPANY, LIMITED, St. Heller, Jersey, Channel Islands.
Filed August 21, 1933. Serial No. 340,871. PUBLISHED OCTOBER 31, 1933. Class 47.

309,209. PLANT SPRAY. H. HEIDENHAIN, Wenatchee, Wash.
Filed August 21, 1933. Serial No. 340,875. PUBLISHED OCTOBER 24, 1933. Class 6.

309,210. AUTOMOBILE TIRES. CHARLES R. STEVENSON, New York, N. Y.
Filed August 19, 1933. Serial No. 340,849. PUBLISHED OCTOBER 24, 1933. Class 35.

309,211. LIPSTICK, FACE CREAM, FACE LOTION, FACE POWDER, FACE ROUGE. ALBERT CARSON, doing business as Vildor Company, New York, N. Y.
Filed August 19, 1933. Serial No. 340,859. PUBLISHED OCTOBER 17, 1933. Class 6.

309,212. FURNITURE AND AUTOMOBILE POLISHES AND WAXES. MAX S. SPECTOR, Brooklyn, N. Y.
Filed September 13, 1933. Serial No. 341,562. PUBLISHED OCTOBER 31, 1933. Class 16.

309,213. COMBINATION GARMENTS COMPRISING A COMBINATION OF SOME OR ALL OF THE FOLLOWING ITEMS: BRASSIÈRE, GIRDLE, UNDERWEAR, STEP-IN AND VEST. MODEL BRASSIERE CO. INC., Brooklyn, N. Y.
Filed September 13, 1933. Serial No. 341,557. PUBLISHED OCTOBER 24, 1933. Class 39.

309,214. BRACES (SUSPENDERS). PIONEER SUSPENDER COMPANY, Philadelphia, Pa.
Filed September 13, 1933. Serial No. 341,559. PUBLISHED OCTOBER 24, 1933. Class 39.

309,215. HAIR DRESS AND FACE LOTION. WM. M. GAMBILL, doing business as Ogene Company, Merkel, Tex.
Filed September 13, 1933. Serial No. 341,550. PUBLISHED OCTOBER 24, 1933. Class 6.

309,216. NEWSPAPER SECTION. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed September 13, 1933. Serial No. 341,555. PUBLISHED OCTOBER 24, 1933. Class 38.

309,217. PHOTOGRAPHIC APPARATUS. ZEISS IKON AKTIENGESELLSCHAFT, Dresden, Germany.
Filed September 11, 1933. Serial No. 341,528. PUBLISHED OCTOBER 24, 1933. Class 26.

309,218. CORSETS. THE ASBURY MILLS, New York, N. Y.
Filed September 13, 1933. Serial No. 341,539. PUBLISHED OCTOBER 24, 1933. Class 39.

309,219. PREPARED GRAPHITE CONCENTRATE FOR ADDITION TO LUBRICATING OILS AND LUBRICATING GREASES, AND LUBRICATING OILS AND LUBRICATING GREASES CONTAINING SAID PREPARED GRAPHITE CONCENTRATE. FRANKLIN OIL CORPORATION, Pittsburgh, Pa.
Filed September 11, 1933. Serial No. 341,480. PUBLISHED OCTOBER 24, 1933. Class 15.

309,220. INSECTICIDES AND FUNGICIDES. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed September 11, 1933. Serial No. 341,498. PUBLISHED OCTOBER 24, 1933. Class 6.

309,221. METAL HANGERS AND HOOKS. STRANSKY PRODUCTS CORPORATION, New York, N. Y.
Filed September 8, 1933. Serial No. 341,448. PUBLISHED OCTOBER 31, 1933. Class 13.

309,222. X-RAY OPAQUE TUBE SHIELDS AND ELECTRICAL INSULATORS. WESTINGHOUSE X-RAY COMPANY, INC., Long Island City, N. Y.
Filed September 9, 1933. Serial No. 341,466. PUBLISHED OCTOBER 24, 1933. Class 21.

309,223. CARBONATED NON-ALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FOR EXTRACTS, SYRUPS, AND CONCENTRATES USED IN MAKING THE SAME, AND FOR BOTTLED WATER. CLICQUOT CLUB CO., Millis, Mass.
Filed September 8, 1933. Serial No. 341,423. PUBLISHED OCTOBER 31, 1933. Class 45.

309,224. CALCINED GRANULAR DIATOMACEOUS EARTH. NATIONAL FIREPROOFING CORPORATION, Pittsburgh, Pa.
Filed September 8, 1933. Serial No. 341,435. PUBLISHED OCTOBER 24, 1933. Class 12.

309,225. CLAY CONDUIT PIPE OF VARIOUS SIZES. NATIONAL FIREPROOFING CORPORATION, Pittsburgh, Pa.
Filed September 8, 1933. Serial No. 341,436. PUBLISHED OCTOBER 24, 1933. Class 12.

309,226. PROPHYLACTIC PREPARATIONS TO BE USED IN A DOUCHE. KILLIAN A. PRICE, doing business as Kappa Products Co., Hickory, N. C.
Filed September 8, 1933. Serial No. 341,439. PUBLISHED OCTOBER 31, 1933. Class 6.

309,227. SEWING THREADS. SAMUEL V. ROSEMAN, doing business as Samuel V. Roseman Co., New York, N. Y.
Filed September 7, 1933. Serial No. 341,407. PUBLISHED OCTOBER 24, 1933. Class 43.

309,228. SAFETY RAZORS AND SAFETY RAZOR BLADES. ATLAS SAFETY RAZOR COMPANY, INC., New York, N. Y.
Filed September 8, 1933. Serial No. 341,417. PUBLISHED OCTOBER 24, 1933. Class 23.

309,229. CARBONATED NON-ALCOHOLIC, NONCEREAL. MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FOR EXTRACTS, SYRUPS, AND CONCENTRATES USED IN MAKING THE SAME, AND FOR BOTTLED WATER. CLICQUOT CLUB CO., Millis, Mass.
Filed September 8, 1933. Serial No. 341,422. PUBLISHED OCTOBER 31, 1933. Class 45.

309,230. BOOK OR DIRECTORY PUBLISHED FROM TIME TO TIME AND GIVING BUYING INFORMATION OR ADVERTISING SERVICE. THE CARROLL GOLD BOOK PUBLISHING CO., Boston, Mass.
Filed September 7, 1933. Serial No. 341,393. PUBLISHED OCTOBER 31, 1933. Class 38.

309,231. SHOE POLISH. PROGRESS CORPORATION, Dover, Del.
Filed September 6, 1933. Serial 341,376. PUBLISHED OCTOBER 31, 1933. Class 4.

309,232. SCOURING POWDER. GLEAM PRODUCTS CORPORATION, New York, N. Y.
Filed September 6, 1933. Serial No. 341,363. PUBLISHED OCTOBER 24, 1933. Class 4.

309,233. HYPOCHLORITE SOLUTIONS. GERMICIDE PRODUCTS CORPORATION, Buffalo, N. Y.
Filed August 11, 1933. Serial No. 340,614. PUBLISHED OCTOBER 17, 1933. Class 6.

309,234. HYPOCHLORITE SOLUTIONS. GERMICIDE PRODUCTS CORPORATION, Buffalo, N. Y.
Filed August 11, 1933. Serial No. 340,615. PUBLISHED OCTOBER 17, 1933. Class 6.

309,235. SALVES AND OINTMENTS FOR SKIN DISEASES. LIBIT CHEMICAL CO. INC., New York, N. Y.
Filed August 11, 1933. Serial No. 340,600. PUBLISHED OCTOBER 24, 1933. Class 6.

309,236. AUTOMOBILE POLISH. CHANDU CHEMICAL PRODUCTS COMPANY, Hopewell, Va.
Filed August 11, 1933. Serial No. 340,609. PUBLISHED OCTOBER 31, 1933. Class 16.

309,237. BREAD. STROEHMANN BROTHERS COMPANY, Harrisburg, Pa.
Filed August 10, 1933. Serial No. 340,587. PUBLISHED OCTOBER 24, 1933. Class 46.

309,238. INSECTICIDES AND HERBICIDES. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif.
Filed August 10, 1933. Serial No. 340,591. PUBLISHED OCTOBER 31, 1933. Class 6.

309,239. BATH SALTS AND A WATER SOFTENER. NEPTUNE TRADING CORPORATION, New York, N. Y.
Filed August 10, 1933. Serial No. 340,583. PUBLISHED OCTOBER 17, 1933. Class 6.

309,240. RADIATOR TREATING COMPOUNDS. NO-FREEZATOL, INC., Denver, Colo.
Filed August 10, 1933. Serial No. 340,584. PUBLISHED OCTOBER 17, 1933. Class 6.

309,241. VEGETABLE OIL USED FOR TEXTILE DYEING AND FINISHING. ARKANSAS COMPANY INC., New York, N. Y.
Filed August 10, 1933. Serial No. 340,566. PUBLISHED OCTOBER 17, 1933. Class 6.

309,242. STOCKINGS. MOCK, JUDSON, VOEHRINGER CO., INC., Long Island City, N. Y.
Filed August 10, 1933. Serial No. 340,581. PUBLISHED OCTOBER 3, 1933. Class 39.

309,243. FRESH CANTALOUPES. MCDANIEL & SONS, Yuma, Ariz.
Filed August 16, 1933. Serial No. 340,746. PUBLISHED OCTOBER 24, 1933. Class 46.

309,244. EMULSION OF ALUMINUM ACETATE IN COMBINATION WITH FATTY MATTER AND WAXES, USED FOR THE PURPOSE OF RENDERING TEXTILE FIBRES WATER REPELLENT. ARKANSAS COMPANY INC., New York, N. Y.
Filed August 10, 1933. Serial No. 340,565. PUBLISHED OCTOBER 17, 1933. Class 6.

309,245. WATERPROOFED RAYON FLOCK FABRIC. THE ZAPON COMPANY, Wilmington, Del.
Filed September 19, 1933. Serial No. 341,706. PUBLISHED OCTOBER 31, 1933. Class 50.

309,246. WATERPROOFED COTTON FLOCK FABRIC. THE ZAPON COMPANY, Wilmington, Del.
Filed September 19, 1933. Serial No. 341,707. PUBLISHED OCTOBER 31, 1933. Class 50.

309,247. TURNSTILES AND LIKE PASSAGE-CONTROLLING GATES OF THE ROTARY TYPE. PERRY MANUFACTURING COMPANY, INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,694. PUBLISHED OCTOBER 31, 1933. Class 23.

309,248. BOILER AND CONDENSER TUBES. STEEL AND TUBES, INC., Cleveland, Ohio.
Filed September 19, 1933. Serial No. 341,702. PUBLISHED OCTOBER 31, 1933. Class 34.

309,249. EYELASH CURLERS. JAMES L. YOUNGHUSBAND, Chicago, Ill.
Filed September 18, 1933. Serial No. 341,672. PUBLISHED OCTOBER 31, 1933. Class 44.

309,250. BEER WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. NEUSTADTL BREWING CORP., New York, N. Y.
Filed September 19, 1933. Serial No. 341,691. PUBLISHED OCTOBER 31, 1933. Class 48.

309,251. COMIC STRIP IN WEEKLY PUBLICATIONS. NEA SERVICE, INC., Cleveland, Ohio.
Filed September 16, 1933. Serial No. 341,638. PUBLISHED OCTOBER 24, 1933. Class 38.

309,252. GAS BURNERS. BENJOHN CRISENBERRY, Detroit, Mich.
Filed September 18, 1933. Serial No. 341,646. PUBLISHED OCTOBER 31, 1933. Class 34.

309,253. LUBRICATING OILS AND GREASES. COAST 2 COAST OIL COMPANY, Cleveland, Ohio.
Filed September 16, 1933. Serial No. 341,624. PUBLISHED OCTOBER 24, 1933. Class 15.

309,254. HAIR BLEACH. HYDROX CHEMICAL COMPANY, Chicago, Ill.
Filed September 16, 1933. Serial No. 341,629. PUBLISHED OCTOBER 31, 1933. Class 6.

309,255. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. THE KURTH COMPANY, Columbus, Wis.
Filed September 14, 1933. Serial No. 341,577. PUBLISHED OCTOBER 31, 1933. Class 48.

309,256. SWABS CONSISTING OF SANITARY ABSORBENT COTTON ATTACHED TO THE END OF A SMALL PIECE OF WOOD. Q-TIPS, INC., New York, N. Y.
Filed September 14, 1933. Serial No. 341,566. PUBLISHED OCTOBER 31, 1933. Class 44.

309,257. WHISKEY. CATESBY W. SPEARS, Paris, Ky.
Filed August 18, 1933. Serial No. 340,820. PUBLISHED SEPTEMBER 26, 1933. Class 49.

309,258. PERIODICAL. TOWER MAGAZINES, INC., Wilkes-Barre, Pa., and New York, N. Y.
Filed September 13, 1933. Serial No. 341,565. PUBLISHED OCTOBER 24, 1933. Class 38.

309,259. CHEMICAL BEER-PIPE CLEANING COMPOUND. WALTER L. SCHWARTZ, doing business as Ritz Chemical Company of New Jersey, Newark, N. J.
Filed August 18, 1933. Serial No. 340,815. PUBLISHED OCTOBER 24, 1933. Class 6.

309,260. WHISKEY. CATESBY W. SPEARS, Paris, Ky.
Filed August 18, 1933. Serial No. 340,818. PUBLISHED OCTOBER 3, 1933. Class 49.

309,261. WOMEN'S AND MISSES' CLOTHING—NAMELY, SPORTS DRESSES, SUITS, COATS, SWEATERS, JACKETS; GLOVES MADE OF LEATHER AND FABRIC, HATS AND UNDERWEAR. NEIMAN-MARCUS COMPANY, Dallas, Tex.
Filed August 18, 1933. Serial No. 340,808. PUBLISHED OCTOBER 24, 1933. Class 39.

309,262. MONTHLY PUBLICATION. OILDOM PUBLISHING COMPANY, Bayonne, N. J.
Filed August 18, 1933. Serial No. 340,810. PUBLISHED OCTOBER 24, 1933. Class 38.

309,263. ANTISEPTIC LINIMENT FOR THE TREATMENT OF CUTS, BRUISES, ABRASIONS, AND MUSCULAR PAINS. NORTHROP & LYMAN COMPANY, LIMITED, Toronto, Ontario, Canada.
Filed August 24, 1933. Serial No. 340,987. PUBLISHED OCTOBER 24, 1933. Class 6.

309,264. CALCIUM HYPOCHLORITE. PEN-CHLOR, INC., Philadelphia, Pa.
Filed August 17, 1933. Serial No. 340,772. PUBLISHED OCTOBER 24, 1933. Class 6.

309,265. MEDICAL PREPARATION USED IN THE TREATMENT OF ASTHMA, HAY FEVER, AND BRONCHITIS. THE HISTEEN CORPORATION, Chicago, Ill.
Filed August 16, 1933. Serial No. 340,741. PUBLISHED OCTOBER 24, 1933. Class 6.

309,266. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, ROUGE, LIP STICKS, DUSTING POWDER, SACHET, COLD CREAMS, LOTION FOR THE SKIN AND HAIR, POWDER AND ROUGE COMPACTS, AND VEGETAL. HOUBIGANT, INC., New York, N. Y.
Filed August 16, 1933. Serial No. 340,743. PUBLISHED OCTOBER 17, 1933. Class 6.

309,267. DRESS SHIELDS. RAND RUBBER COMPANY, INC., Brooklyn, N. Y.
Filed August 15, 1933. Serial No. 340,723. PUBLISHED OCTOBER 24, 1933. Class 40.

309,268. DRESS SHIELDS. RAND RUBBER COMPANY, INC., Brooklyn, N. Y.
Filed August 15, 1933. Serial No. 340,724. PUBLISHED OCTOBER 24, 1933. Class 40.

309,269. DEHORNERS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed August 12, 1933. Serial No. 340,659. PUBLISHED OCTOBER 24, 1933. Class 23.

309,270. GREEN COFFEE BEANS. MIGUEL LOPEZ PUMAREJO, New York, N. Y.
Filed August 14, 1933. Serial No. 340,694. PUBLISHED OCTOBER 31, 1933. Class 46.

309,271. SERIAL COLUMN IN NEWSPAPERS—NAMELY, ARTICLES DEALING WITH BEAUTY TREATMENTS, AIDS AND HINTS, INCLUDING COSMETOLOGY. THE CHICAGO DAILY NEWS, INC., Chicago, Ill.
Filed August 12, 1933. Serial No. 340,640. PUBLISHED OCTOBER 31, 1933. Class 38.

309,272. HEALING AND ANÆSTHETIC OINTMENT. THE OLEOTHESIN COMPANY, INC., Buffalo, N. Y.
Filed August 12, 1933. Serial No. 340,654. PUBLISHED OCTOBER 17, 1933. Class 6.

309,273. PERFUMES, FACE POWDERS, TOILET WATERS, LIP STICKS, ROUGES, AND COSMETICAL COMPACTS. LOUIS PASKIN, New York, N. Y.
Filed August 9, 1933. Serial No. 340,554. PUBLISHED OCTOBER 17, 1933. Class 6.

309,274. WINES. CHARLES A. LABIN LIMITED, London, England.
Filed September 20, 1933. Serial No. 341,730. PUBLISHED OCTOBER 31, 1933. Class 47.

309,275. TOOTH PASTE. DAVID D. HYMAN, doing business as Dr. Hyman's Dental Products Co., Philadelphia, Pa.
Filed August 9, 1933. Serial No. 340,535. PUBLISHED OCTOBER 31, 1933. Class 6.

309,276. SPARK PLUGS. D. M. STEWARD MFG. CO., Chattanooga, Tenn.
Filed September 22, 1933. Serial No. 341,813. PUBLISHED OCTOBER 31, 1933. Class 21.

309,277. CHEMICAL DYE AIDS—NAMELY, WETTING, CLEANSING, WASHING, BLEACHING, AND LEATHER DRESSING AGENT FOR THREAD AND FIBRE. H. TH. BÖHME AKTIENGESELLSCHAFT, Chemnitz, Germany.
Filed August 9, 1933. Serial No. 340,530. PUBLISHED OCTOBER 17, 1933. Class 6.

309,278. WINES. CHARLES A. LABIN LIMITED, London, England.
Filed September 20, 1933. Serial No. 341,728. PUBLISHED OCTOBER 31, 1933. Class 47.

309,279. WINE. CHARLES A. LABIN LIMITED, London, England.
Filed September 20, 1933. Serial No. 341,729. PUBLISHED OCTOBER 31, 1933. Class 47.

309,280. CIGARS. ESTABROOK & EATON COMPANY, Boston, Mass.
Filed August 24, 1933. Serial No. 340,965. PUBLISHED OCTOBER 31, 1933. Class 17.

309,281. GAME OF CHANCE PLAYED WITH DICE. RICHARD I. FURBUSH, doing business as R. I. Furbush Company, Waltham, Mass.
Filed August 24, 1933. Serial No. 340,966. PUBLISHED OCTOBER 31, 1933. Class 22.

309,282. MEDICATED PREPARATIONS FOR HUMAN USE IN THE TREATMENT OF HAY FEVER AND THE LIKE AILMENTS. PICKUPS LIMITED, London, England.
Filed August 23, 1933. Serial No. 340,953. PUBLISHED OCTOBER 24, 1933. Class 6.

309,283. AUTO BODY POLISH, PAINT THINNERS, AUTO BODY WAX, AND COMBINATION AUTO BODY CLEANER AND POLISHER. THE TEXAS COMPANY, New York, N. Y.
Filed August 23, 1933. Serial No. 340,957. PUBLISHED OCTOBER 31, 1933. Class 16.

309,284. BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIAL. W. L. DOUGLAS SHOE COMPANY, Montello, Brockton, Mass.
Filed August 24, 1933. Serial No. 340,963. PUBLISHED OCTOBER 24, 1933. Class 39.

309,285. RUBBER COMPOUNDING MATERIAL, PARTICULARLY NAPHTHALENE. THE BARRETT COMPANY, New York, N. Y.
Filed August 23, 1933. Serial No. 340,943. PUBLISHED OCTOBER 24, 1933. Class 6.

309,286. NOTE PAPER AND WRITING PAPER. RUTH A. KEANE, Sacramento, Calif.
Filed August 23, 1933. Serial No. 340,951. PUBLISHED OCTOBER 31, 1933. Class 37.

309,287. COSMETIC PREPARATIONS. JOHN N. MCMATH, doing business as The Angel Skin Co., Larchmont, N. Y.
Filed August 22, 1933. Serial No. 340,921. PUBLISHED OCTOBER 24, 1933. Class 6.

309,288. OPTICAL LENSES, AND GLASSES FOR SPECTACLES, GOGGLES, MASKS, AND THE LIKE. SALVOC LIMITED, London, England.
Filed August 22, 1933. Serial No. 340,928. PUBLISHED OCTOBER 31, 1933. Class 26.

309,289. FLAKED ZINC FOR PIGMENT PURPOSES. HERCULES POWDER COMPANY, Wilmington, Del.
Filed August 22, 1933. Serial No. 340,917. PUBLISHED OCTOBER 31, 1933. Class 16.

309,290. NEWSPAPER CARTOONS. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed August 22, 1933. Serial No. 340,920. PUBLISHED OCTOBER 24, 1933. Class 38.

309,291. TOILET CREAMS. F. J. M. MILES, doing business as C. R. C. Company, Sunland, Calif.
Filed August 16, 1933. Serial No. 340,748. PUBLISHED OCTOBER 17, 1933. Class 6.

309,292. CREAM OF TARTAR. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed August 16, 1933. Serial No. 340,756. PUBLISHED OCTOBER 17, 1933. Class 6.

309,293. GRANULAR ABRASIVE MATERIAL. NORTON COMPANY, Worcester, Mass.
Filed March 22, 1933. Serial No. 335,968. PUBLISHED OCTOBER 24, 1933. Class 4.

309,294. COMPOUND CONTAINING VARIOUS MINERALS FOR USE AS A FOOD TONIC. MAKERS OF KAL, INC., Los Angeles, Calif.
Filed March 25, 1933. Serial No. 336,090. PUBLISHED OCTOBER 31, 1933. Class 6.

309,295. INSECTICIDES AND FUNGICIDES. NATIONAL INSECTICIDE CORPORATION, Tallahassee, Fla.
Filed March 28, 1933. Serial No. 336,161. PUBLISHED OCTOBER 24, 1933. Class 6.

309,296. JAVELLE WASH AND BLEACHING PREPARATIONS. ALBO WASH FLUID COMPANY, Glendale, N. Y.
Filed March 29, 1933. Serial No. 336,168. PUBLISHED OCTOBER 31, 1933. Class 6.

309,297. PERIODICALS. THE BUTTERICK COMPANY, New York, N. Y.
Filed August 25, 1933. Serial No. 341,012. PUBLISHED OCTOBER 31, 1933. Class 38.

309,298. FIBER BOARD WITH TILE-FORM INDENTATIONS. MASONITE CORPORATION, Laurel, Miss.
Filed August 25, 1933. Serial No. 341,026. PUBLISHED OCTOBER 17, 1933. Class 12.

309,299. LUBRICATING OILS AND GREASES. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa.
Filed August 25, 1933. Serial No. 341,029. PUBLISHED OCTOBER 31, 1933. Class 15.

309,300. MAGAZINES ISSUED MONTHLY, AND ALSO BOOKS RELATING TO ART SUBJECTS AND REPRODUCTIONS OF PAINTINGS, DRAWINGS, AND ENGRAVINGS. THE STUDIO PUBLICATIONS, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,033. PUBLISHED OCTOBER 24, 1933. Class 38.

309,301. FROZEN EGGS, FROZEN EGG WHITES, AND FROZEN EGG YOLKS. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed August 25, 1933. Serial No. 341,034. PUBLISHED OCTOBER 24, 1933. Class 46.

309,302. CIGARS. J. MAZER SONS CIGAR COMPANY, Detroit, Mich.
Filed August 26, 1933. Serial No. 341,043. PUBLISHED OCTOBER 31, 1933. Class 17.

309,303. WOMEN'S AND MISSES' SILK UNDERWEAR. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa.
Filed August 26, 1933. Serial No. 341,063. PUBLISHED OCTOBER 24, 1933. Class 39.

309,304. PRINTED ADVERTISING AND DESCRIPTIVE FOLDERS, PAMPHLETS, AND MAILING PIECES. CORRECT PRINTING CO. INC., New York, N. Y.
Filed August 25, 1933. Serial No. 341,064. PUBLISHED OCTOBER 24, 1933. Class 38.

309,305. STORAGE TANKS, FARM SILOS, INDUSTRIAL SILOS, AND COAL POCKETS. CRAINE, INC., Norwich, N. Y.
Filed August 28, 1933. Serial No. 341,077. PUBLISHED OCTOBER 31, 1933. Class 2.

309,306. SILOS, STORAGE POCKETS, STORAGE TANKS AND BINS. CRAINE, INC., Norwich, N. Y.
Filed August 28, 1933. Serial No. 341,079. PUBLISHED OCTOBER 31, 1933. Class 2.

309,307. BEER OF LEGAL ALCOHOLIC CONTENT. KINGSBURY BREWERIES COMPANY, Manitowoc, Wis.
Filed August 28, 1933. Serial No. 341,090. PUBLISHED OCTOBER 31, 1933. Class 48.

309,308. TENNIS SHOES. LAMBERTVILLE RUBBER COMPANY, INC., Lambertville, N. J.
Filed August 28, 1933. Serial No. 341,091. PUBLISHED OCTOBER 24, 1933. Class 39.

309,309. BEER. WAUSAU BREWING COMPANY, Wausau, Wis.
Filed August 28, 1933. Serial No. 341,107. PUBLISHED OCTOBER 31, 1933. Class 48.

309,310. CLEANSER FOR GENERAL USE. DORANN CHEMICAL CO., INC., Cincinnati, Ohio.
Filed August 29, 1933. Serial No. 341,117. PUBLISHED OCTOBER 24, 1933. Class 4.

309,311. FLOOR MASTIC. RAYMOND W. STORM, doing business as Storm Flooring Company, New York, N. Y.
Filed August 29, 1933. Serial No. 341,142. PUBLISHED OCTOBER 17, 1933. Class 12.

309,312. FLOOR FINISH OF THE FILLER TYPE. RAYMOND W. STORM, doing business as Storm Flooring Company, New York, N. Y.
Filed August 29, 1933. Serial No. 341,144. PUBLISHED OCTOBER 31, 1933. Class 16.

309,313. PREPARATION FOR THE TREATMENT OF COLDS. D. WEEKS & COMPANY, Des Moines, Iowa.
Filed August 8, 1933. Serial No. 340,500. PUBLISHED OCTOBER 24, 1933. Class 6.

309,314. MOTION PICTURES. CELEBRITY PRODUCTIONS, INC., New York, N. Y.
Filed August 7, 1933. Serial No. 340,467. PUBLISHED OCTOBER 24, 1933. Class 26.

309,315. ANTISEPTIC, SOOTHING, AND HEALING CREAM FOR TREATMENT OF BURNS, SCALDS, BRUISES, SCRATCHES, CHAFING, INSECT BITES, POISON IVY, AND SUNBURN. THE AYER COMPANY, Lowell, Mass.
Filed August 7, 1933. Serial No. 340,464. PUBLISHED OCTOBER 17, 1933. Class 6.

309,316. FUEL BRIQUETTES OR DENSELY COMPRESSED CYLINDERS, CHUNKS, OR FUEL BLOCKS MADE OF VEGETABLE FIBERS—NAMELY, WOOD, BAGASSE, HAY, WHEAT STRAW, AND THE LIKE. WOOD BRIQUETTES, INC., Lewiston, Idaho.
Filed August 5, 1933. Serial No. 340,457. PUBLISHED OCTOBER 24, 1933. Class 1.

309,317. MEN'S SUITS, COATS, VESTS, PANTS; JACKETS MADE OF COTTON, COTTON AND WOOL AND ALSO WOOLEN AND WORSTED FABRICS; MEN'S COTTON SHIRTS; MEN'S COTTON AND SILK AND RAYON UNDERWEAR; MEN'S COTTON, SILK, AND RAYON SOCKS AND MEN'S RUBBERIZED COTTON RAINCOATS. JOHN H. DANIEL, doing business as John H. Daniel Company, Rome, Ga.
Filed August 5, 1933. Serial No. 340,436. PUBLISHED OCTOBER 24, 1933. Class 39.

309,318. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FOR SYRUPS AND EXTRACTS USED IN MAKING THE SAME. S. MAURICE WHITCRAFT, doing business as Carbonated Health Co., Webster Groves, Mo.
Filed August 4, 1933. Serial No. 340,422. PUBLISHED OCTOBER 31, 1933. Class 45.

309,319. CANNED MUSHROOMS. KEYSTONE MUSHROOM CO., INC., Coatesville, Pa.
Filed August 3, 1933. Serial No. 340,354. PUBLISHED OCTOBER 31, 1933. Class 46.

309,320. NURSING BOTTLE NIPPLES. RALPH G. A. BECK, Montreal, Quebec, Canada.
Filed August 1, 1933. Serial No. 340,335. PUBLISHED OCTOBER 31, 1933. Class 44.

309,321. AUTOGRAPHIC REGISTERS. UNITED AUTOGRAPHIC REGISTER CO., Chicago, Ill.
Filed August 2, 1933. Serial No. 340,328. PUBLISHED OCTOBER 24, 1933. Class 37.

309,322. AUTOGRAPHIC REGISTERS. UNITED AUTOGRAPHIC REGISTER CO., Chicago, Ill.
Filed August 2, 1933. Serial No. 340,327. PUBLISHED OCTOBER 24, 1933. Class 37.

309,323. COSMETIC CREAM FOR ERUPTIONS OF THE SKIN. ELIZABETH ARDEN, INC., New York, N. Y.
Filed August 2, 1933. Serial No. 340,300. PUBLISHED OCTOBER 17, 1933. Class 6.

309,324. LUMBER AND VENEER. SORRIES, GILLESPIE AND TAYLOR, Bronxville, N. Y.
Filed August 1, 1933. Serial No. 340,292. PUBLISHED OCTOBER 17, 1933. Class 12.

309,325. CHEMICAL FOR TREATING FUEL OILS AND GASOLINE. CARROLL J. SHERMAN, Indianapolis, Ind.
Filed July 31, 1933. Serial No. 340,271. PUBLISHED OCTOBER 24, 1933. Class 6.

309,326. OLIVE OIL. ANDREW MAKRIS BROS., New York, N. Y.
Filed July 31, 1933. Serial No. 340,261. PUBLISHED OCTOBER 31, 1933. Class 46.

309,327. HYDRAULIC BRAKE FLUID HAVING AN ALCOHOL BASE. JOHNSON OIL REFINING COMPANY, Chicago, Ill.
Filed July 31, 1933. Serial No. 340,258. PUBLISHED OCTOBER 17, 1933. Class 6.

309,328. LADIES', MISSES', AND CHILDREN'S UNDERWEAR, INCLUDING MUSLIN AND SILK. BROWN DURRELL CO., Boston, Mass.
Filed July 29, 1933. Serial No. 340,214. PUBLISHED OCTOBER 24, 1933. Class 39.

309,329. WAXED PAPER. MARCALUS MANUFACTURING COMPANY, INC., Bloomfield, N. J.
Filed July 25, 1933. Serial No. 340,091. PUBLISHED OCTOBER 31, 1933. Class 37.

309,330. ANTISEPTIC AND MOUTH WASH, DOUCHE POWDER, ETC. ROLLA LAWRY, doing business as Arbodine, East Port Chester, Conn.
Filed July 24, 1933. Serial No. 340,047. PUBLISHED OCTOBER 31, 1933. Class 6.

309,331. DYED SKINS. AMERICAN FUR DYEING COMPANY, North Bergen, N. J.
Filed July 24, 1933. Serial No. 340,028. PUBLISHED OCTOBER 24, 1933. Class 1.

309,332. IMPREGNATED OR TREATED WOOD. PYRATONE PRODUCTS CORPORATION, Chicago, Ill.
Filed July 21, 1933. Serial No. 339,983. PUBLISHED OCTOBER 17, 1933. Class 12.

309,333. PAPERBOARD SET-UP TOYS. BADGER CARTON COMPANY, Milwaukee, Wis.
Filed August 30, 1933. Serial No. 341,155. PUBLISHED OCTOBER 31, 1933. Class 22.

309,334. ORNAMENTAL COMPOSITE FIBRE BOARD. THE HINDE & DAUCH PAPER COMPANY, Sandusky, Ohio.
Filed August 30, 1933. Serial No. 341,186. PUBLISHED OCTOBER 24, 1933. Class 37.

309,335. IRONING BOARD SETS, NETS FOR LAUNDRY AND DYE HOUSE USE, TAILORED IRONING BOARD PADS, AND TAILORED IRONING BOARD COVERS. CALLAWAY MILLS, Lagrange, Ga.
Filed August 31, 1933. Serial No. 341,189. PUBLISHED OCTOBER 31, 1933. Class 24.

309,336. CARPET YARN, CHENILLE YARN, COP YARN, CROCHET YARN, HOSIERY AND KNITTING YARNS, INSULATING YARN, MOP YARN, PLUSH YARN, RATTINETTE YARN, ROVING AND FILLING YARN FOR RUGS, RUG STUFFER YARN, SHOE-LACING THREAD, TAPESTRY YARNS, WEAVING YARN, WOOL AND COTTON THREADS, AND YARNS FOR WEAVING FABRICS, AND YARNS, COLORED AND WHITE. CALLAWAY MILLS, Lagrange, Ga.
Filed August 31, 1933. Serial No. 341,193. PUBLISHED OCTOBER 24, 1933. Class 43.

309,337. COSMETIC PREPARATIONS. ARTHUR GOULD, doing business as Gould Laboratories and Cynara Cosmetics, New York, N. Y.
Filed August 31, 1933. Serial No. 341,199. PUBLISHED OCTOBER 31, 1933. Class 6.

309,338. BOOK PAPER. KIMBERLY-CLARK CORPORATION, Neenah, Wis.
Filed August 31, 1933. Serial No. 341,205. PUBLISHED OCTOBER 24, 1933. Class 37.

309,339. CLEANING COMPOUNDS. OHIO LABORATORIES, INCORPORATED, Columbus, Ohio.
Filed August 31, 1933. Serial No. 341,209. PUBLISHED OCTOBER 31, 1933. Class 4.

309,340. RUBBER HEELS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed August 31, 1933. Serial No. 341,220. PUBLISHED OCTOBER 24, 1933. Class 39.

309,341. SAFETY CORD ADAPTED FOR STRINGING BEADS OR NECKLACES. THE NARROW FABRIC CO., West Reading, Pa.
Filed September 1, 1933. Serial No. 341,252. PUBLISHED OCTOBER 31, 1933. Class 28.

309,342. CHINA AND PORCELAIN TABLE WARE, BOTH DOMESTIC AND COMMERCIAL. ONONDAGA POTTERY COMPANY, Syracuse, N. Y.
Filed September 1, 1933. Serial No. 341,254. PUBLISHED OCTOBER 24, 1933. Class 30.

309,343. CONCENTRATES OF NATURAL MINERAL WATER. SALTS OF SILOAM CO., Portland, Oreg.
Filed September 1, 1933. Serial No. 341,258. PUBLISHED OCTOBER 31, 1933. Class 6.

309,344. PAPER-BOARD SHIPPING BASKETS. KIECKHEFER CONTAINER COMPANY, Milwaukee, Wis.
Filed September 2, 1933. Serial No. 341,263. PUBLISHED OCTOBER 31, 1933. Class 2.

309,345. CLARINET, SAXOPHONE, OBOE, AND BASSOON REEDS, TUBES, AND PADS. DAVID A. ROALSTAD, Chicago, Ill.
Filed September 2, 1933. Serial No. 341,306. PUBLISHED OCTOBER 24, 1933. Class 36.

309,346. NONLATHERING SHAVING CREAM. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed September 2, 1933. Serial No. 341,312. PUBLISHED OCTOBER 24, 1933. Class 4.

309,347. HOSIERY. WAYNE KNITTING MILLS, Fort Wayne, Ind.
Filed September 5, 1933. Serial No. 341,315. PUBLISHED OCTOBER 24, 1933. Class 39.

309,348. HOSIERY. WAYNE KNITTING MILLS, Fort Wayne, Ind.
Filed September 5, 1933. Serial No. 341,316. PUBLISHED OCTOBER 24, 1933. Class 39.

309,349. SHOES MADE OF LEATHER, RUBBER, OR FABRIC, OR ANY COMBINATION THEREOF. PEDIGO-LAKE SHOE CO., St. Louis, Mo.
Filed September 5, 1933. Serial No. 341,338. PUBLISHED OCTOBER 24, 1933. Class 39.

309,350. WATER COILS FOR FURNACES. RUDY FURNACE COMPANY, Dowagiac, Mich.
Filed September 5, 1933. Serial No. 341,344. PUBLISHED OCTOBER 31, 1933. Class 34.

309,351. WOMEN'S AND CHILDREN'S HATS AND CAPS. SAMUEL SCHEUER, New York, N. Y.
Filed September 5, 1933. Serial No. 341,345. PUBLISHED OCTOBER 24, 1933. Class 39.

309,352. MATCHES. THE DIAMOND MATCH COMPANY, New York, N. Y.
Filed September 6, 1933. Serial No. 341,358. PUBLISHED OCTOBER 31, 1933. Class 9.

309,353. MINERAL WATER CRYSTALS HAVING LAXATIVE AND DIURETIC PROPERTIES. EXCELSIOR SPRINGS MINERAL WATER CRYSTALS COMPANY, Excelsior Springs, Mo.
Filed August 1, 1932. Serial No. 329,259. PUBLISHED OCTOBER 25, 1932. Class 6.

309,354. NONMETALLIC AUTOMOBILE TIRES. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo.
Filed July 28, 1932. Serial No. 329,164. PUBLISHED OCTOBER 24, 1933. Class 35.

309,355. INTERMITTENTLY PUBLISHED PUBLICATIONS. RICHARD BURTON SCHOOLS, INC., Minneapolis, Minn.
Filed July 28, 1932. Serial No. 329,212. PUBLISHED OCTOBER 24, 1933. Class 38.

309,356. BREAD. P. F. PETERSEN BAKING COMPANY, Omaha, Nebr.
Filed May 9, 1932. Serial No. 326,909. PUBLISHED OCTOBER 24, 1933. Class 46.

309,357. TOILET PAPER, PAPER TOWELS, AND PAPER NAPKINS. HOBERO PAPER & FIBRE COMPANY, Green Bay, Wis.
Filed July 1, 1932. Serial No. 328,491. PUBLISHED OCTOBER 24, 1933. Class 37.

309,358. CHEESE. CAMEMBERT INDUSTRIE HEISING, HIRSCHLE & IMMLER, Heising, Germany.
Filed October 24, 1931. Serial No. 320,617. PUBLISHED OCTOBER 31, 1933. Class 46.

309,359. PASTES, POWDERS, CREAMS, ETC. POTTER AND MOORE LIMITED, London, England.
Filed January 6, 1932. Serial No. 322,782. PUBLISHED MARCH 29, 1932. Class 6.

309,360. COAL. THE KOPPERS COMPANY OF DELAWARE, Pittsburgh, Pa.
Filed April 8, 1932. Serial No. 325,914. PUBLISHED OCTOBER 24, 1933. Class 1.

309,361. STORAGE BATTERIES AND THEIR PARTS, OTHER THAN ELECTROLYTE. PERRINE QUALITY PRODUCTS CORPORATION, Waltham, Mass.
Filed June 26, 1931. Serial No. 316,333. PUBLISHED OCTOBER 31, 1933. Class 21.

309,362. CLEANING AND POLISHING COMPOUND. KEENE WASHING PRODUCTS COMPANY, Keene, N. H.
Filed August 12, 1931. Serial No. 317,896. PUBLISHED OCTOBER 31, 1933. Class 4.

309,363. GERMICIDES, DISINFECTANTS, DEODORANTS, SOLID HYPOCHLORITE AND SOLUTIONS OF HYPOCHLORITE, SUCH AS SODIUM HYPOCHLORITE. MERRIMAC CHEMICAL COMPANY, INC., Everett, Mass.
Filed June 28, 1933. Serial No. 339,338. PUBLISHED OCTOBER 17, 1933. Class 6.

309,364. GROUND AMORPHOUS RAW CLAY AND FULLER'S EARTH, ETC. EARTHEN PRODUCTS COMPANY, Houston, Tex.
Filed June 29, 1933. Serial No. 339,350. PUBLISHED OCTOBER 24, 1933. Class 1.

309,365. MEDICATED OINTMENT FOR THE TREATMENT OF EXTERNAL SKIN DISEASES AND CONDITIONS SUCH AS ECZEMA, ATHLETE'S FOOT, INFLAMMATION, ERUPTION, ITCHING, ETC. PAUL K. GUTHRIE, doing business as De Witt Pharmacal Co., Philadelphia, Pa.
Filed June 28, 1933. Serial No. 339,308. PUBLISHED OCTOBER 24, 1933. Class 6.

309,366. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. PSCHORRBRAU AKTIENGESELLSCHAFT MÜNCHEN, Munich, Germany.
Filed June 28, 1933. Serial No. 339,326. PUBLISHED OCTOBER 31, 1933. Class 48.

309,367. CHEWING GUM. MAX C. SHAPIRO, Beverly Hills, Calif.
Filed June 24, 1933. Serial No. 339,207. PUBLISHED SEPTEMBER 5, 1933. Class 46.

309,368. DOUGHNUTS AND DOUGHNUT FLOUR. ELMER A. HUBBS, doing business as Dixie Cream Donut Company, Dallas, Tex.
Filed June 26, 1933. Serial No. 339,231. PUBLISHED OCTOBER 24, 1933. Class 46.

309,369. PAINT BASE COATS, READY-MIXED PAINTS, VARNISHES, LACQUERS, PAINT FILLERS, AND VARNISH REMOVERS. G. J. LIEBICH CO., Chicago, Ill.
Filed June 24, 1933. Serial No. 339,192. PUBLISHED OCTOBER 24, 1933. Class 16.

309,370. ICE CREAM, MILK, SWEET CREAM, CULTURED BUTTERMILK, COTTAGE CHEESE, ICE-CREAM MIX, AND CHOCOLATE-FLAVORED MILK. SCHLOSSER BROTHERS, Frankfort, Ind.
Filed June 24, 1933. Serial No. 339,205. PUBLISHED OCTOBER 24, 1933. Class 46.

309,371. CANNED FRUITS. SUNICAL PACKING COMPANY, San Francisco, Calif.
Filed June 19, 1933. Serial No. 339,008. PUBLISHED OCTOBER 24, 1933. Class 46.

309,372. RUBBER HEELS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed June 22, 1933. Serial No. 339,101. PUBLISHED OCTOBER 24, 1933. Class 39.

309,373. AIRPLANES. GENERAL AVIATION MANUFACTURING CORPORATION, Dundalk, Md.
Filed March 13, 1933. Serial No. 335,613. PUBLISHED OCTOBER 31, 1933. Class 19.

309,374. COTTON, WOOLEN, SILK, AND RAYON PIECE GOODS. ARGUS KNITTING MILLS, INC., New York, N. Y.
Filed March 7, 1933. Serial No. 335,538. PUBLISHED OCTOBER 24, 1933. Class 42.

309,375. MEN'S, WOMEN'S, AND CHILDREN'S OUTER BODY GARMENTS—NAMELY, HATS, CAPS, COATS, SUITS, SCARFS; AND GLOVES OF LEATHER, RUBBER, AND FABRICS; AND COMBINATIONS OF THESE MATERIALS. ARGUS KNITTING MILLS, INC., New York, N. Y.
Filed March 7, 1933. Serial No. 335,539. PUBLISHED OCTOBER 24, 1933. Class 39.

309,376. GELATINE SIZE FOR USE WITH ARTIFICIAL SILK OR RAYON. TENNESSEE EASTMAN CORPORATION, Kingsport, Tenn.
Filed February 3, 1933. Serial No. 334,621. PUBLISHED MAY 2, 1933. Class 6.

309,377. TAPE MEASURES. THE LUFKIN RULE COMPANY, Saginaw, Mich.
Filed February 24, 1933. Serial No. 335,476. PUBLISHED OCTOBER 24, 1933. Class 26.

309,378. AUTOMOBILES AND STRUCTURAL PARTS THEREOF. CONTINENTAL AUTOMOBILE COMPANY, Grand Rapids and Detroit, Mich.
Filed January 16, 1933. Serial No. 334,030. PUBLISHED OCTOBER 24, 1933. Class 19.

309,379. MEDICATED SALVE. DOROTHY K. KERR, doing business as Felix Tempest Company, Brooklyn, N. Y.
Filed January 19, 1933. Serial No. 334,133. PUBLISHED OCTOBER 24, 1933. Class 6.

309,380. WINES. ALBERTO CONTRATTO, doing business as Giuseppe Contratto, Canelli, Italy.
Filed January 3, 1933. Serial No. 333,577. PUBLISHED OCTOBER 31, 1933. Class 47.

309,381. PACKING-HOUSE PRODUCTS—NAMELY, HAMS, PICNICS, BOSTON BUTTS, BACON, LARD, PORK LINKS, PORK SAUSAGE, BOLOGNA, SHORTENING, COOKING OIL, SALAD OIL, CHILI CON CARNE, LUNCHEON LOAF, AND BRANDED BEEF. HOUSTON PACKING COMPANY, Houston, Tex.
Filed January 3, 1933. Serial No. 333,593. PUBLISHED OCTOBER 24, 1933. Class 46.

309,382. FRESH CITRUS FRUITS. WHITTIER SELECT CITRUS ASSOCIATION, Whittier, Calif.
Filed December 5, 1932. Serial No. 332,797. PUBLISHED OCTOBER 24, 1933. Class 46.

309,383. BANANA AND PLANTAIN PRODUCTS AND OTHER PRODUCTS CONTAINING THE SAME SOLD AS FOOD AND CONFECTIONS IN THE FORM OF CHIPS OR FLAKES CONSISTING OF THE UNRIPENED FRUIT COOKED IN HOT GREASE OR IN OVENS. THE VITANA COMPANY, Portland, Oreg.
Filed December 12, 1932. Serial No. 333,020. PUBLISHED OCTOBER 31, 1933. Class 46.

309,384. MAYONNAISE. EMERY J. GUILBERT, doing business as Springdale Mayonnaise Company, Springdale, Conn.
Filed November 8, 1932. Serial No. 331,989. PUBLISHED JANUARY 31, 1933. Class 46.

309,385. PLASTIC COMPOSITIONS IN THE FORM OF RODS, SHEETS, AND TUBES. CATALIN CORPORATION OF AMERICA, Fords, N. J.
Filed November 18, 1932. Serial No. 332,250. PUBLISHED OCTOBER 24, 1933. Class 1.

309,386. JUTE BURLAP BAGGING, NOT INCLUDING ANY COTTON FABRICS. MENTE & CO., INC., New Orleans, La.
Filed September 19, 1932. Serial No. 330,484. PUBLISHED OCTOBER 24, 1933. Class 42.

309,387. MOTOR-LUBRICATING OILS AND GREASES. MORRIS MILLER, New York, N. Y.
Filed September 22, 1932. Serial No. 330,578. PUBLISHED OCTOBER 31, 1933. Class 15.

309,388. LIQUID FUELS OF THE GASOLINE TYPE FOR INTERNAL-COMBUSTION ENGINES. THE HALL-RATTERMANN OIL COMPANY, Cincinnati, Ohio.
Filed September 7, 1932. Serial No. 330,163. PUBLISHED OCTOBER 24, 1933. Class 15.

309,389. PASTE POWDER AND ROUGE. LAWRENCE E. CHURCHILL, Oshkosh, Wis.
Filed September 21, 1932. Serial No. 330,536. PUBLISHED OCTOBER 17, 1933. Class 6.

309,390. HAND FIRE EXTINGUISHERS. PIONEER CHEMICAL WORKS, INC., Chicago, Ill.
Filed August 31, 1932. Serial No. 330,019. PUBLISHED OCTOBER 31, 1933. Class 23.

309,391. COFFEE, COFFEE SUBSTITUTES, AND TEA. MOD-URN COFFEE SERVICE, INC., Philadelphia, Pa.
Filed August 29, 1932. Serial No. 329,958. PUBLISHED OCTOBER 31, 1933. Class 46.

309,392. CARTOONS. JAMES DICKIE, Oakland, Calif.
Filed August 11, 1932. Serial No. 329,467. PUBLISHED OCTOBER 31, 1933. Class 38.

309,393. COOKED AND SALTED CEREAL GRAIN FLAKES—NAMELY, HOMINY FLAKES. JOE W. MCFERRAN, Owensboro, Ky.
Filed June 17, 1933. Serial No. 338,935. PUBLISHED OCTOBER 24, 1933. Class 46.

309,394. LUSTRE OR BRILLIANT FABRIC WEAVES IN THE PIECE OR BOLT FORMED OF STRANDED REGENERATED CELLULOSE AND MAINLY INTENDED FOR DECORATIVE PURPOSES. CHICOPEE MANUFACTURING CORPORATION, New Brunswick, N. J.
Filed June 10, 1933. Serial No. 338,722. PUBLISHED OCTOBER 24, 1933. Class 42.

309,395. CHEMICAL LIME. ASH GROVE LIME & PORTLAND CEMENT COMPANY, Kansas City, Mo.
Filed June 15, 1933. Serial No. 338,861. PUBLISHED OCTOBER 17, 1933. Class 6.

309,396. REAGENT PAPER MORE SPECIFICALLY LITMUS PAPER AND PHENOLPHTHALEIN PAPER. CHEMISCHE FABRIK HELFENBERG A. G. VORM. EUGEN DIETERICH, Helfenberg near Dresden, Germany.
Filed June 7, 1933. Serial No. 338,598. PUBLISHED OCTOBER 17, 1933. Class 6.

309,397. BOATS—NAMELY, CANOES, ROW BOATS, SAIL BOATS, AND BOATS TO WHICH OUTBOARD MOTORS MAY BE ATTACHED. WURLITZER GRAND PIANO COMPANY, De Kalb, Ill.
Filed June 9, 1933. Serial No. 338,708. PUBLISHED OCTOBER 31, 1933. Class 19.

309,398. NONALCOHOLIC, MALTLESS SYRUPS USED IN THE PREPARATION OF SOFT DRINKS. LA VERNE INCORPORATED, Cincinnati, Ohio.
Filed June 6, 1933. Serial No. 338,572. PUBLISHED OCTOBER 31, 1933. Class 45.

309,399. MILD ADHESIVE PREPARATION FOR APPLICATION TO THE HAND TO ASSURE SECURE GRIPPING OF TOOLS, GOLF CLUBS, TENNIS RACQUETS, AND OTHER HAND-MANIPULATED INSTRUMENTS. TAK, PRONOUNCED "TACK", INC., Newark, N. J.
Filed June 7, 1933. Serial No. 338,624. PUBLISHED OCTOBER 31, 1933. Class 5.

309,400. MAGNESIA FOR MEDICINAL AND PHARMACEUTICAL USE. LABORATORIO CHIMICO FARMACEUTICO MODERNO DI TORINO SOCIETÀ IN ACCOMANDITA SEMPLICE DI E. GRANELLI & C., Milan, Italy.
Filed May 31, 1933. Serial No. 338,374. PUBLISHED OCTOBER 17, 1933. Class 6.

309,401. PORTABLE REFRESHMENT BOOTH. EDWIN M. GEROULD, Beach Bluff, Mass.
Filed June 3, 1933. Serial No. 338,489. PUBLISHED OCTOBER 24, 1933. Class 32.

309,402. FACE LOTIONS AND CREAMS. SARA G. THOMPSON, Morristown, N. J.
Filed May 19, 1933. Serial No. 338,127. PUBLISHED OCTOBER 31, 1933. Class 6.

309,403. PREPARATION IN TABLET, LIQUID, AND POWDER FORM FOR THE TREATMENT OF STOMACH DISORDERS, SUCH AS INDIGESTION, STOMACH ULCERS, GAS FORMATION, HYPERACIDITY, HEARTBURN, SOUR STOMACH, NAUSEA, AND CONSTIPATION. MERRITT, INC., Atlanta, Ga.
Filed May 27, 1933. Serial No. 336,287. PUBLISHED OCTOBER 17, 1933. Class 6.

309,404. MEDICINE AND NUTRITIVE PREPARATION CONTAINING YEAST, ENZYMES, VITAMINS, PROTEINS, CARBOHYDRATES, LACTIC ACID, AND ORGANIC MINERALS, FOR HUMAN BEINGS, LIVESTOCK, AND POULTRY. CALIFORNIA YEAST PRODUCTS CORPORATION, LTD., Los Angeles, Calif.
Filed May 15, 1933. Serial No. 337,830. PUBLISHED OCTOBER 24, 1933. Class 6.

309,405. ELECTRIC LIGHTING APPARATUS USABLE WITH SELF-PROPELLING VEHICLES, AND VISUAL INDICATING SYSTEMS USING LIGHT PRODUCING MEANS PARTICULARLY SIGNAL LAMPS, REAR END SIGNAL LIGHTS, STOP-AND-DIRECTION LIGHT SIGNALS, ELECTRIC HEADLAMPS AND ELECTRIC SPOT LAMPS, AND PARTS THEREOF, USABLE WITH SELF-PROPELLING VEHICLES. UNITED LENS CORPORATION, Detroit, Mich.
Filed May 19, 1933. Serial No. 338,022. PUBLISHED OCTOBER 31, 1933. Class 21.

309,406. ELECTRICAL JOURNALS AND PUBLICATIONS. THE INSTITUTE OF RADIO ENGINEERS, New York, N. Y.
Filed April 25, 1933. Serial No. 337,161. PUBLISHED OCTOBER 24, 1933. Class 38.

309,407. PRODUCT FOR THE KILLING OF OR COMPLETE EXTERMINATION OF ROACHES, ANTS, MICE, RATS, MOTHS, BEETLES, SILVER FISH, AND BEDBUGS. SAMETH EXTERMINATING COMPANY, INC., New York, N. Y.
Filed May 6, 1933. Serial No. 337,576. PUBLISHED OCTOBER 17, 1933. Class 6.

309,408. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGEOUS DISEASES. THE OLYMPIA LABORATORY, New Orleans, La.
Filed April 18, 1933. Serial No. 336,914. PUBLISHED JULY 4, 1933. Class 44.

309,409. ELECTRICAL JOURNALS AND PUBLICATIONS. THE INSTITUTE OF RADIO ENGINEERS, New York, N. Y.
Filed April 25, 1933. Serial No. 337,160. PUBLISHED OCTOBER 24, 1933. Class 38.

309,410. CANNED FISH. CALLIGUEIA FOOD PRODUCTS CORPORATION, Los Angeles, Calif.
Filed March 31, 1933. Serial No. 336,260. PUBLISHED OCTOBER 24, 1933. Class 46.

309,411. NURSING BOTTLE NIPPLES. RALPH G. A. BECK, Montreal, Quebec, Canada.
Filed April 14, 1933. Serial No. 336,746. PUBLISHED OCTOBER 31, 1933. Class 44.

309,412. PREPARATION FOR USE IN DISINFECTING BREWERY EQUIPMENT, SUCH AS FERMENTING TANKS. ELEKTRO-OSMOSE A. G., Berlin, Germany.
Filed August 9, 1933. Serial No. 340,522. PUBLISHED OCTOBER 24, 1933. Class 6.

309,413. MILLED GRAIN PRODUCTS AND PREPARATIONS THEREOF, PARTICULARLY WHEAT FLOUR, WHEAT GERM EMBRYO, BREAKFAST CEREAL, STOCK FEED, POULTRY FEED, CAKE FLOUR, AND PREPARED FLOURS—VIZ, BISCUIT FLOUR, PANCAKE FLOUR, SELF-RISING FLOUR, AND WAFFLE FLOUR. GENERAL MILLS, INC., Minneapolis, Minn.
Filed March 30, 1933. Serial No. 336,247. PUBLISHED JUNE 18, 1933. Class 46.

309,414. INSECTICIDE. SOCONY-VACUUM SPECIALTIES, INC., New York, N. Y.
Filed September 21, 1933. Serial No. 341,776. PUBLISHED NOVEMBER 7, 1933. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

309,415. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TRADE LABORATORIES, INC., Newark, N. J. Filed July 11, 1933. Serial No. 339,648.

PEP-Rx-MINT

For Dental Cream.
Claims use since May 20, 1931.

309,416. (CLASS 2. RECEPTACLES.) MASTER METAL PRODUCTS, INC., Buffalo, N. Y. Filed Dec. 17, 1932. Serial No. 333,164.

NO-TIP

For Utility Chests or Boxes Made of Base Metal.
Claims use since June 25, 1932.

309,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PARIS FEDERICI, doing business as Paris Federici & Co., Merced, Calif. Filed June 30, 1933. Serial No. 339,394.

WAWONA

For Fresh Cantaloupes, Fresh Vegetables, Fresh Grapes and Dried Fruits.
Claims use since Nov. 1, 1932.

309,418. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE CONDE NAST PUBLICATIONS, INC., New York, N. Y. Filed Dec. 6, 1932. Serial No. 332,809.

HOLLYWOOD

For Paper Dress Patterns.
Claims use since Nov. 25, 1932.

309,419. (CLASS 2. RECEPTACLES.) S. H. KRESS & Co., New York, N. Y. Filed Dec. 17, 1932. Serial No. 333,160.

Glendale

For Paper Cups and Paper Plates.
Claims use since Dec. 1, 1932.

309,420. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL CABLE CORPORATION, New York, N. Y. Filed Nov. 16, 1932. Serial No. 332,188.

PEERLESS

For Bare and Insulated Electrical Wires and Cables.
Claims use since 1913.

309,421. (CLASS 45. BEVERAGES, NONALCOHOLIC.) R. M. BAILEY, El Monte, Calif. Filed Nov. 28, 1932. Serial No. 332,511.

Bailey's

For Apple Juice.
Claims use since Oct. 22, 1926.

309,422. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MARSHALL ASBESTOS CORPORATION, Troy, N. Y. Filed Sept. 6, 1932. Serial No. 330,145.

A-1

For Brake Lining.
Claims use since Feb. 13, 1932.

309,423. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GENERAL MILLS, INC., Minneapolis, Minn. Filed Feb. 29, 1932. Serial No. 324,597.

ALMIXT BISKITS

For Biscuit Flour.
Claims use since Feb. 12, 1932.

309,424. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 22, 1933. Serial No. 344,026.

OLD McKENNA

For Whiskey.
Claims use since July 15, 1928.

309,425. (CLASS 15. OILS AND GREASES.) PENN-O-TEX OIL COMPANY, Minneapolis, Minn. Filed Nov. 28, 1933. Serial No. 344,060.

FRE-FLO

For Lubricating Oils.
Claims use since Jan. 1, 1932.

309,426. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) OLD GILMORE DISTILLERY, INC., New York, N. Y. Filed Nov. 22, 1933. Serial No. 344,002.

PAUL LONG

For Whiskey.
Claims use since Oct. 5, 1932.

309,427. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 22, 1933. Serial No. 344,025.

OLD GRANGER

For Whiskey.
Claims use since May 1, 1930.

309,428. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 22, 1933. Serial No. 343,982.

Tom Collins

For Whiskey and Potable Distilled Spirits.
Claims use since May 31, 1932.

309,429. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) OLD GILMORE DISTILLERY, INC., New York, N. Y. Filed Nov. 22, 1933. Serial No. 344,001.

OLD GILMORE

For Whiskey.
Claims use since Oct. 5, 1932.

309,430. (CLASS 38. PRINTS AND PUBLICATIONS.) CHURCH & DWIGHT CO. INC., New York, N. Y. Filed Nov. 10, 1933. Serial No. 343,492.

Martha Lee Anderson

For Recipe Booklets.
Claims use since Nov. 4, 1932.

309,431. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 21, 1933. Serial No. 343,981.

SHENANDOAH

For Whiskey and Other Potable Distilled Spirits.
Claims use since Jan. 11, 1929.

309,432. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILBUR B. HOY, State College, Pa. Filed Oct. 25, 1933. Serial No. 342,909.

DUMAS' ORIENTAL UNGUENT

For Skin Emollient.
Claims use since Oct. 20, 1932.

309,433. (CLASS 37. PAPER AND STATIONERY.) EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y. Filed Nov. 2, 1933. Serial No. 343,165.

"NUPASTEL"

For Crayons.
Claims use since May 9, 1932.

309,434. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANCES CITRUS ASSOCIATION, Santa Ana, Calif. Filed Oct. 20, 1933. Serial No. 342,694.

ORANGE COUNTY VALENCIAS
Paul Jones
BRAND

For Fresh Oranges and Lemons.
Claims use since May 16, 1928.

309,435. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DOVER MANUFACTURING COMPANY, Dover, Ohio. Filed Oct. 25, 1933. Serial No. 342,900.

Dover dependable

For Electric Sadirons and Percolators.
Claims use since July, 1932.

309,436. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JOS. S. FINCH & COMPANY, New York, N. Y. Filed Oct. 14, 1933. Serial No. 342,473.

Schenley's Aged Medicinal

For Whiskey, Brandy, Gin, and Other Potable Distilled Spirits.
Claims use since Nov. 5, 1929.

309,437. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JOS. S. FINCH & COMPANY, New York, N. Y. Filed Oct. 16, 1933. Serial No. 342,533.

HENRY WATTERSON

For Whiskey, Brandy, Gin, and Other Potable Distilled Spirits.
Claims use since Dec. 14, 1923.

TRADE-MARK REGISTRATIONS RENEWED

41,689. SENSITIZED PHOTOGRAPHIC PAPER AND FILM. Registered December 22, 1903. THE ANTHONY & SCOVILL COMPANY, New York, N. Y. Renewed December 22, 1933, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of New York, assignee by mesne assignments.

41,727. WIRE NETTING. Registered December 22, 1903. VERKAUFSSTELLE DER VEREINIGTEN DEUTSCHEN DRAHTGEFLECHT-FABRIKANTEN GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Cologne, Germany. Renewed December 22, 1933, to Verkaufsstelle des Verbandes Deutscher Drahtgeflecht-Fabrikanten G. m. b. H., Dusseldorf, Germany, a corporation of Germany, by change of name.

42,526. CERTAIN NAMED ADVERTISING NOVELTIES. Registered May 3, 1904. THE WHITEHEAD & HOAG COMPANY, Newark, N. J., a corporation of New Jersey. Renewed May 3, 1924.

89,784. GARMENT-FASTENERS KNOWN AS SNAP-BUTTONS. Registered January 7, 1913. WALDES & CO., Prague-Wrschowitz, Austria-Hungary. Renewed January 7, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York, assignee by mesne assignments.

93,705. STEEL WIRE AND WIRE STRINGS FOR PIANOFORTES AND OTHER MUSICAL INSTRUMENTS. Registered October 14, 1913. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed October 14, 1933, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Köln-Mülheim, Germany, a corporation of Germany.

94,359. A PLAIN SOFT DRINK IN THE FORM OF A SWEET SYRUP. Registered December 2, 1913. BENJAMIN R. FAUNCE, Riverside, N. J. Renewed December 2, 1933.

94,361. CERTAIN NAMED HARDWARE, PLUMBING, AND STEAM-FITTING SUPPLIES. Registered December 2, 1913. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed December 2, 1933, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Köln-Mülheim, Germany, a corporation of Germany.

94,362. CERTAIN NAMED MACHINERY AND TOOLS AND PARTS THEREOF. Registered December 2, 1913. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed December 2, 1933, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Köln-Mülheim, Germany, a corporation of Germany.

94,402. REFINED PETROLEUM FOR ILLUMINATING, AND POWER PURPOSES. Registered December 2, 1913. STANDARD OIL COMPANY OF NEW YORK. Renewed December 2, 1933, to Socony-Vacuum Corporation, New York, N. Y., a corporation of New York, by change of name.

94,435. CERTAIN METALS IN VARIOUS SHAPES AND CERTAIN NAMED GOODS MADE THEREFROM. Registered December 9, 1913. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed December 9, 1933, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Köln-Mülheim, Germany, a corporation of Germany.

94,436. CERTAIN ARTICLES COMPOSED OF VEGETABLE SUBSTANCES, MINERAL SUBSTANCES, COMBINATIONS THEREOF, AND LEATHER PACKING. Registered December 9, 1913. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed December 9, 1933, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Köln-Mülheim, Germany.

94,493. RAW GLASS FOR CERTAIN NAMED PURPOSES. Registered December 9, 1913. SCHOTT & GEN. Renewed December 9, 1933, to Jenaer Glaswerk Schott & Gen., Jena, Germany, a corporation of Germany, by change of name.

94,498. REFINED PETROLEUM FOR ILLUMINATING, HEATING, AND POWER PURPOSES. Registered December 9, 1913. STANDARD OIL CO. OF NEW YORK. Renewed December 9, 1933, to Socony-Vacuum Corporation, New York, N. Y., a corporation of New York, N. Y., by change of name.

94,707. LEATHER STRIPS. Registered December 30, 1913. N. R. ALLEN'S SONS COMPANY, Kenosha, Wis. Renewed December 30, 1933, to The United States Leather Selling Corporation, New York, N. Y., a corporation of Delaware, assignee.

94,709. SANDPAPERS, GARNET-PAPERS, EMERY-PAPERS, AND EMERY CLOTHS. Registered December 30, 1913. AMERICAN GLUE COMPANY. Renewed December 30, 1933, to Union Sandpaper Company, Boston, Mass., a corporation of Massachusetts, assignee by mesne assignments.

94,965. MEN'S, WOMEN'S, AND CHILDREN'S SILK AND LISLE HOSE. Registered January 13, 1914. WAYNE KNITTING MILLS, Fort Wayne, Ind., a corporation of Indiana. Renewed January 13, 1934.

95,027. CARPETS AND RUGS. Registered January 20, 1914. MATTHEW J. WHITTALL. Renewed January 20, 1934, to M. J. Whittall Associates Ltd., Worcester, Mass., a trust of Massachusetts, successor.

95,265. PRINTED BOOKS. Registered February 3, 1914. JOSEPH T. RYERSON & SON. Renewed February 3, 1934, to Joseph T. Ryerson & Son, Incorporated, Chicago, Ill., a corporation of Illinois, successor.

95,420. MILK CHOCOLATE. Registered February 17, 1914. J. S. FRY & SONS, LIMITED, Bristol, England, a corporation of Great Britain. Renewed February 17, 1934.

95,436. LAUNDRY AND MILL-SIZING STARCH. Registered February 17, 1914. THE KEMPER STARCH COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed February 17, 1934.

95,537. SCOURING AND CLEANING BRUSHES, DUSTERS, AND MOPS. Registered February 24, 1914. ALFRED C. FULLER. Renewed February 24, 1934, to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut, assignee.

95,556. VARNISH. Registered February 24, 1914. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed February 24, 1934.

95,594. CAKES, WAFERS, AND BISCUITS. Registered March 3, 1914. BREMNER BROS., Chicago, Ill., a corporation of Illinois. Renewed March 3, 1934.

95,653. GAS-GENERATORS, ACETYLENE-BLOWPIPES, AND ACETYLENE CUTTING-TORCHES. Registered March 3, 1914. OXWELD ACETYLENE COMPANY, Chicago, Ill. Renewed March 3, 1934, to Oxweld Acetylene Company, New York, N. Y., a corporation of West Virginia.

95,696. TOILET-PAPER, PAPER TOWELS, AND PAPER NAPKINS. Registered March 3, 1914. ADIRONDACK TISSUE PAPER CO., New Hartford, N. Y. Renewed March 3, 1934, to Adirondack Tissue Paper Co., Utica, N. Y., a firm.

95,764. CERTAIN NAMED MACHINES AND SEPARATE PARTS THEREOF. Registered March 10, 1914. INTERNATIONAL HARVESTER COMPANY OF NEW JERSEY. Renewed March 10, 1934, to International Harvester Company, Chicago, Ill., a corporation of New Jersey, assignee.

95,826. WORSTED AND COTTON PIECE GOODS, WORSTED PREDOMINATING. Registered March 17, 1914. G. GARNETT & SONS, LIMITED, Apperley Bridge, near Bradford, England, a corporation of Great Britain. Renewed March 17, 1934.

96,207. CERTAIN NAMED FOODS. Registered April 7, 1914. STROHMEYER & ARPE COMPANY, New York, N. Y., a corporation of New York. Renewed April 7, 1934.

96,331. DRY AND READY-MIXED PAINTS, ENAMELS, STAINS, AND VARNISHES. Registered April 14, 1914. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed April 14, 1934.

96,357. PAPER FOR WRITING AND PRINTING AND ENVELOPS. Registered April 14, 1914. BRADNER SMITH & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 14, 1934.

96,361. IMPLEMENTS, APPARATUS, AND ARTICLES USED IN CERTAIN ATHLETIC GAMES OR SPORTS. Registered April 14, 1914. A. G. SPALDING & BROS., New York, N. Y. Renewed April 14, 1934, to A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey.

96,417. CANDY. Registered April 21, 1914. HOLLINGSWORTH CANDY COMPANY. Renewed April 21, 1934, to Fine Products Corporation, Augusta, Ga., a corporation of Georgia, assignee.

96,591. HOSIERY. Registered April 21, 1914. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J., a corporation of New Jersey. Renewed April 21, 1934.

97,059. NUTS AND SALTED NUTS. Registered May 19, 1914. EDWARD F. KEMP. Renewed May 19, 1934, to E. F. Kemp Inc., Somerville, Mass., a corporation of Delaware, assignee.

97,127. INSULATING MATERIAL. Registered May 19, 1914. THE CUTLER-HAMMER MFG. CO. Renewed May 19, 1934, to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware, assignee.

97,139. WHEAT-FLOUR, PEPPER, MUSTARD, SPICES, AND TEA. Registered May 19, 1914. S. HAMILL COMPANY, Keokuk, Iowa, a corporation of Iowa. Renewed May 19, 1934.

97,263. MEN'S, YOUTHS', AND BOYS' SUITS AND OVERCOATS. Registered May 26, 1914. LEOPOLD MORSE COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed May 26, 1934.

97,266. ANTISEPTIC THROAT-PASTILS. Registered May 26, 1914. NYAL COMPANY, as assignee of New York and London Drug Co., New York, N. Y. Renewed May 26, 1934, to Nyal Company, Detroit, Mich., a corporation of Michigan, assignee.

97,291. CITRUS FRUITS. Registered May 26, 1914. JAMES K. TWEEDY, Downey, Calif. Renewed May 26, 1934.

97,293. ENAMELS, READY-MIXED PAINTS, VARNISHES, AND VARNISH-REMOVERS. Registered May 26, 1914. VALENTINE & COMPANY, New York, N. Y., a corporation of New York. Renewed May 26, 1934.

LABELS

REGISTERED JANUARY 9, 1934

43,090.—*Title:* TIP TOP HULLESS POP CORN. For Pop Corn. AMERICAN POP CORN COMPANY, Sioux City, Iowa. Published November 23, 1933.

43,091.—*Title:* BALTIMORE BREW SPECIAL. For Beer of the Legal Alcoholic Content. THE BALTIMORE BREWING CO., Baltimore, Md. Published November 27, 1933.

43,092.—*Title:* LYNWOOD. For Shoes. BIRD & SON, INC., East Walpole, Mass. Published November 21, 1933.

43,093.—*Title:* CELLOPHANE ICICLES. For Shredded Cellophane Christmas Tree Decorations. BROOKS PAPER COMPANY, St. Louis, Mo. Published November 27, 1933.

43,094.—*Title:* BURGESS B AND C RADIO BATTERY. For Electric Batteries. BURGESS BATTERY COMPANY, Madison, Wis. Published October 28, 1933.

43,095.—*Title:* HOLD-OUTS. For Cigars. AUGUSTUS J. GOLDEN, Baltimore, Md. Published August 7, 1933.

43,096.—*Title:* GOODMAN'S. For Flavored Matzo Crackers. A. GOODMAN & SONS, INC., New York, N. Y. Published December 1, 1933.

43,097.—*Title:* STENSELET. For Device for Printing by Hand Through a Stencil. IRVINE INNES, Minneapolis, Minn. Published October 5, 1933.

43,098.—*Title:* STERN BROTHERS. For Shoes. FRANK C. MEYER CO. INC., Brooklyn, N. Y. Published July 1, 1933.

43,099.—*Title:* VASSAR GIRL. For Shoes. FRANK C. MEYER CO. INC., Brooklyn, N. Y. Published July 1, 1933.

43,100.—*Title:* THE BLUM STORE. For Shoes. FRANK C. MEYER CO. INC., Brooklyn, N. Y. Published July 1, 1933.

43,101.—*Title:* KRAMERS JUVENILE BOOT SHOPS INC. For Shoes. FRANK C. MEYER CO. INC., Brooklyn, N. Y. Published July 31, 1933.

43,102.—*Title:* MONITE CASEIN COLD GLUE. For Glue. MONITE WATERPROOF GLUE CO., Minneapolis, Minn. Published July 24, 1933.

43,103.—*Title:* MY-T-FINE FILLING. For Mixture of Ingredients to be Used in Making Pumpkin Pie. MY-T-FINE CORPORATION, Brooklyn, N. Y. Published December 3, 1933.

43,104.—*Title:* MURI BRAND. For Imported Grated Cheese. NEW ENGLAND IMPORTATION COMPANY, Boston, Mass. Published November 20, 1933.

43,105.—Title: PLACIDAN. For Acid Dyspepsia. TESTED PRODUCTS LABORATORIES INC., Boston, Mass. Published November 28, 1933.

PRINTS

REGISTERED JANUARY 9, 1934

14,497.—*Title:* BOTH MILES AND MONEY AHEAD. For Gasoline. COVEY GAS & OIL COMPANY, Salt Lake City, Utah. Published May 12, 1933.

14,498.—*Title:* DISPLAY CARD FOR ISO-VIS D ANTI-SLUDGE MOTOR OIL. For Motor Oil. ROSENOW COMPANY, Chicago, Ill. Published November 1, 1933.

14,499.—*Title:* DR. SCHOLL'S. For Foot Appliances and Remedies. THE SCHOLL MFG. CO., INC., Chicago, Ill. Published June 1, 1933.

14,500.—*Title:* DR. SCHOLL'S ZINO-PADS. For Corn Pads. THE SCHOLL MFG. CO., INC., Chicago, Ill. Published June 1, 1933.

14,501.—*Title:* COCKTAIL STYLE FRANKFURTS. For Frankfurters. STAHL-MEYER, INC., Brooklyn, N. Y. Published November 10, 1933.

14,502.—*Title:* COCKTAIL STYLE SAUSAGES. For Sausages. STAHL-MEYER, INC., Brooklyn, N. Y. Published October 6, 1933.

14,503.—*Title:* POINSETTIA. For Quilting Cotton. THE STEARNS & FOSTER CO., Cincinnati and Lockland, Ohio. Published July 13, 1933.

14,504.—*Title:* VIRGINIA REEL. For Quilting Cotton. THE STEARNS & FOSTER CO., Cincinnati and Lockland, Ohio. Published August 9, 1933.

14,505.—*Title:* TULIP BOWL. For Quilting Cotton. THE STEARNS & FOSTER CO., Cincinnati and Lockland, Ohio. Published September 14, 1933.

14,506.—*Title:* WARD'S SOFT BUN BREAD. For Bread. WARD BAKING COMPANY, New York, N. Y. Published November 10, 1933.

REISSUES

JANUARY 9, 1934

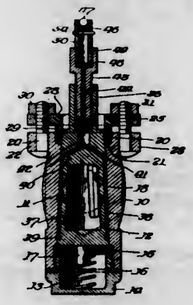
19,041

PLUG COCK AND LUBRICATING MEANS THEREFOR

Jesse C. Martin, Jr., Sausalito, Calif., assignor to Walworth Patents Inc., Boston, Mass., a corporation of Massachusetts

Original No. 1,456,326, dated May 22, 1923, Serial No. 570,991, June 26, 1922. Application for reissue May 19, 1925. Serial No. 31,462

11 Claims. (Cl. 251—93)



11. A valve, comprising a casing having a passageway therethrough, a plug seated in the casing and having a hole adapted to register with the passageway through the casing, lubricant grooves in the seating surface between the plug and casing, a chamber for lubricant in said plug communicating with said lubricant grooves, means for forcing lubricant through said chamber including a plunger advanceable into said chamber and removable therefrom to permit insertion of lubricant into said chamber, and check valve means having a body in axial alignment with said chamber for preventing regress of lubricant therefrom.

19,042

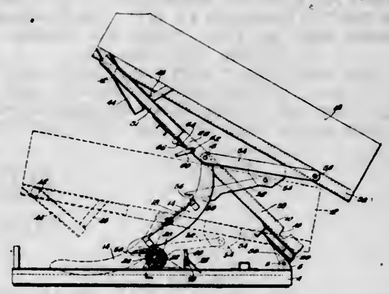
DUMPING VEHICLE

Clark F. Higgins, Melrose, Mass., assignor, by mesne assignments, to General Body & Hoist Company, Everett, Mass., a corporation of Massachusetts

Original No. 1,768,436, dated June 24, 1930, Serial No. 29,280, April 3, 1925. Application for reissue May 27, 1932. Serial No. 613,968

8 Claims. (Cl. 298—11)

1. A dumping vehicle having, in combination, body supporting members pivoted at the rear end of the vehicle, a body connected at its front end with the body supporting members, hoist arms for elevating the body supporting members about their pivots, thrust members connected with the body and having provision for selective engagement at different positions with the hoist arms to elevate the rear end of the body to different heights relatively to the body supporting members, and means for holding the thrust members in position out of engagement with the hoist



arms to permit the body to be raised to rear dump position.

19,043

MASSAGING DEVICE

Joseph Grison, New York, N. Y.

Original No. 1,782,005, dated November 18, 1930, Serial No. 448,476, April 30, 1930. Application for reissue December 7, 1931. Serial No. 579,585

2 Claims. (Cl. 128—62)

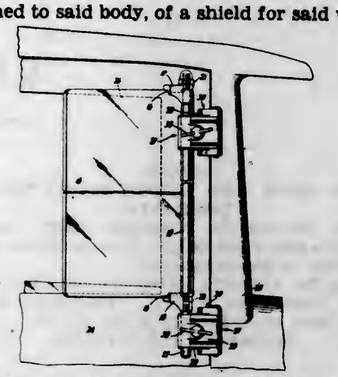


2. A massaging device, comprising a flat metal casing, a plurality of discs of insulating material positioned in the casing, a plurality of

bands of fine gauge conducting material deposited on one of the discs, said bands being distributed to apply a gentle heat evenly to one flat wall of the casing, a packing of insulating material interposed between the discs and the opposite wall to maintain the discs firmly against the wall being heated, and means for supplying electrical current to the bands.

19,044
WING SHIELD SUPPORT
Theodore B. Nisbet, Irvington-on-Hudson, N. Y., assignor to Edward T. Condon, New York, N. Y.
Original No. 1,805,341, dated May 12, 1931, Serial No. 240,772, December 17, 1927. Application for reissue June 23, 1932. Serial No. 618,994
27 Claims. (Cl. 296—84)

1. The combination with a passenger-carrying body, a door therein having a window, and two hinges, one leaf of each hinge being attached to the door at its edge and the other leaf being attached to said body, of a shield for said window



and means for so attaching said shield to said hinges as to turn with said door.

DESIGNS

JANUARY 9, 1934

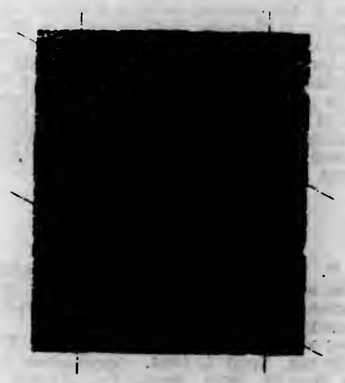
91,309
DESIGN FOR AN ELECTRIC BULB OR SIMILAR ARTICLE
Abraham Abramson, New York, N. Y.
Application August 30, 1933. Serial No. 49,166
Term of patent 3½ years





The ornamental design for an electric bulb or similar article, substantially as shown.

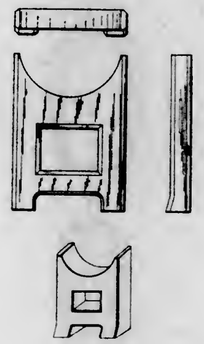
91,310
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Verna L. Bennett, Jackson Heights, N. Y., assignor to L. & E. Stirn, Inc., New York, N. Y.
Application December 1, 1933. Serial No. 49,898
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

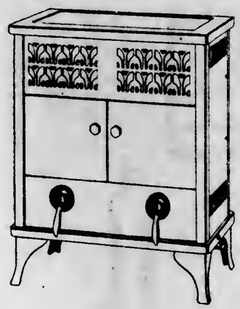
CARNEGIE LIBRARY OF ATLANTA

91,311
DESIGN FOR A STAND FOR FUEL DRUMS OR THE LIKE
Adelard Bellard, Indian Orchard, Mass.
Application October 21, 1933. Serial No. 49,530
Term of patent 3½ years



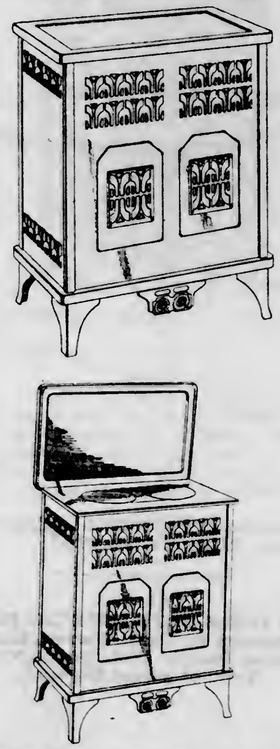
The ornamental design for a stand for fuel drums or the like as shown and described.

91,312
DESIGN FOR AN OIL BURNING HEATER
William T. Bradbury, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application November 1, 1933. Serial No. 49,624
Term of patent 7 years



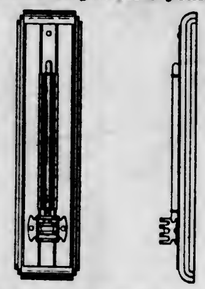
The ornamental design for an oil burning heater substantially as shown.

91,313
DESIGN FOR A COMBINED OIL BURNING HEATER AND COOK STOVE
William T. Bradbury, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application November 1, 1933. Serial No. 49,625
Term of patent 7 years



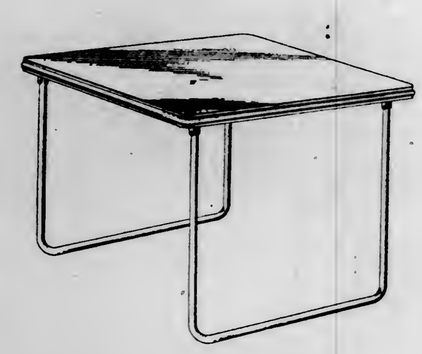
The ornamental design for a combined oil burning heater and cook stove substantially as shown and described.

91,314
DESIGN FOR A THERMOMETER
H. Brainard Brown, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application November 14, 1933. Serial No. 49,721
Term of patent 7 years



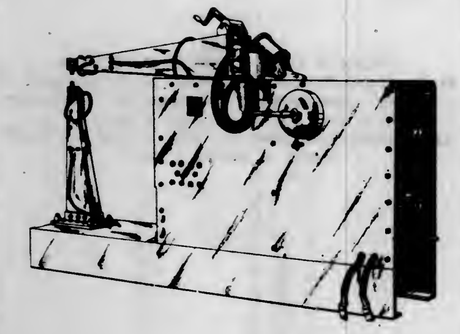
The ornamental design for a thermometer, as shown.

91,315
DESIGN FOR A FOLDING TABLE
Walter O. Brown, Detroit, Mich.
Application December 8, 1932. Serial No. 46,328
Term of patent 14 years



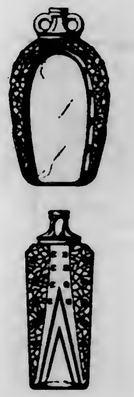
The ornamental design for a folding table substantially as shown and described.

91,316
DESIGN FOR A SPOT WELDING MACHINE
Malcolm S. Clark, Warren, Ohio
Application June 9, 1933. Serial No. 48,361
Term of patent 3½ years



The ornamental design for a spot welding machine as shown.

91,317
DESIGN FOR A JUG
William Brown Cleland, Hamilton, Ontario, Canada, assignor to Jordan Wine Company, Ltd., Jordan, Ontario, Canada, a corporation of Canada
Application October 30, 1933. Serial No. 49,595
Term of patent 14 years



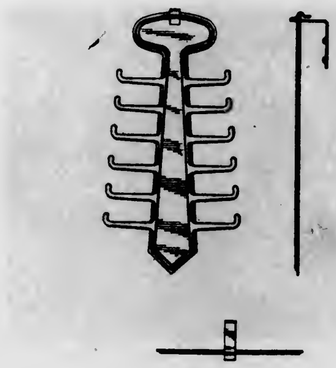
The ornamental design for a jug, as shown.

91,318
DESIGN FOR A BOTTLE
William Brown Cleland, Hamilton, Ontario, Canada, assignor to Jordan Wine Company, Ltd., Jordan, Ontario, Canada, a corporation of Canada
Application October 30, 1933. Serial No. 49,596
Term of patent 14 years



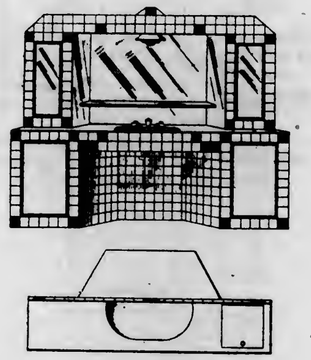
The ornamental design for a bottle, as shown.

91,319
DESIGN FOR A TIE RACK
Abraham Falk, Flushing, N. Y.
Application November 10, 1933. Serial No. 49,689
Term of patent 7 years



The ornamental design for a tie rack as shown.

91,320
DESIGN FOR A BATHROOM CABINET
Angelina Gigi, Miami, Fla., assignor of one-half to Hoomes Rich, Pahokee, Fla.
Application October 24, 1933. Serial No. 49,539
Term of patent 3½ years



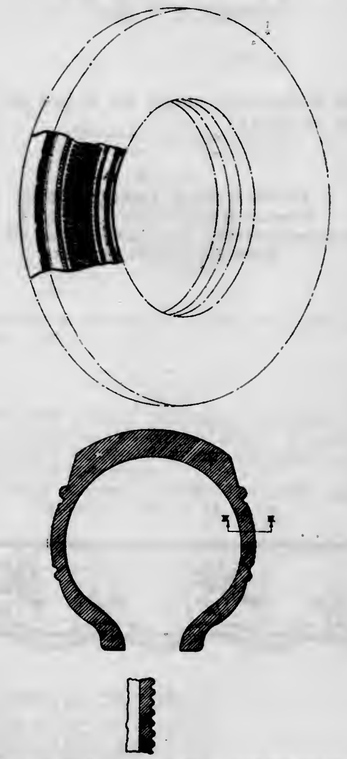
The ornamental design for a bathroom cabinet, as shown.

91,321
DESIGN FOR A TEXTILE FABRIC
Lawrence W. Griffis, North Tonawanda, N. Y., assignor to Van Raalte Company, New York, N. Y., a corporation of New York
Application November 9, 1933. Serial No. 49,685
Term of patent 3½ years



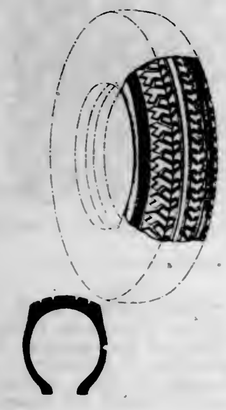
The ornamental design for a textile fabric as shown.

91,322
DESIGN FOR A TIRE
Kenneth B. James, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application August 16, 1933. Serial No. 49,041
Term of patent 3½ years



The ornamental design for a tire substantially as shown and described.

91,323
DESIGN FOR A TIRE OR SIMILAR ARTICLE
John F. Jones, Brookline, Mass., assignor to The Pharis Tire and Rubber Company, Newark, Ohio, a corporation of Ohio
Application November 2, 1933. Serial No. 49,634
Term of patent 14 years



The ornamental design for a tire or similar article, as shown.

91,324
DESIGN FOR SHELF-PAPER
Edward Karfiol, New York, N. Y.
Application October 28, 1933. Serial No. 49,585
Term of patent 14 years



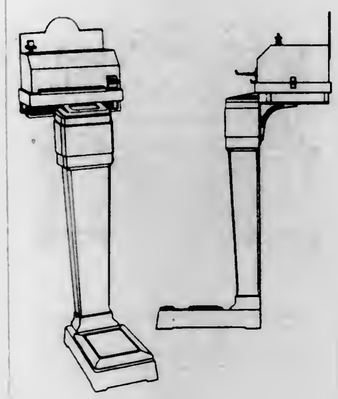
The ornamental design for shelf-paper as shown and described.

91,325
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Nathan D. Levy, New York, N. Y.
Application November 18, 1933. Serial No. 49,791
Term of patent 3½ years



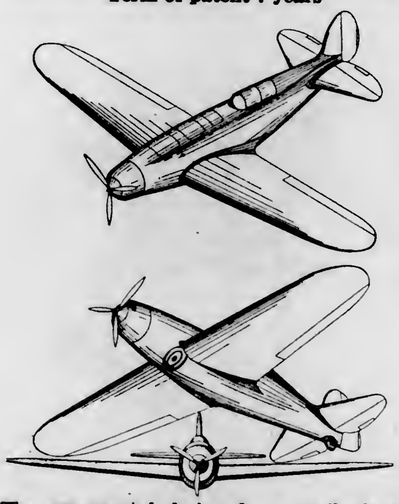
The ornamental design for a textile fabric or similar article as shown.

91,326
DESIGN FOR A COMBINED VENDING AND WEIGHING MACHINE CASING
Newton E. May, South Bend, Ind., assignor to National Syndicates Incorporated, South Bend, Ind., a corporation of Indiana
Application October 26, 1933. Serial No. 49,561
Term of patent 7 years



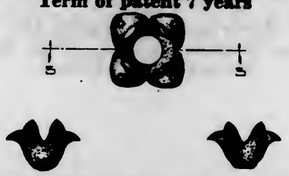
The ornamental design for a combined vending and weighing machine casing as shown.

91,327
DESIGN FOR A MAIL PLANE
Charles N. Monteith and Robert J. Minshall, Seattle, Wash., assignors to Boeing Airplane Company, Seattle, Wash., a corporation of Washington
Application July 25, 1933. Serial No. 48,831
Term of patent 7 years



The ornamental design for a mail plane, as shown and described.

91,328
DESIGN FOR A MOUNTING FOR JEWELS OR SIMILAR ARTICLE
Irene W. Norman, New York, N. Y.
Application October 12, 1933. Serial No. 49,468
Term of patent 7 years



The ornamental design for a mounting for jewels or similar article substantially as shown.

91,329
DESIGN FOR A ONE PIECE SPORT DRESS OR SIMILAR ARTICLE
Gladys B. Redman, Greenwich, Conn.
Application May 16, 1933. Serial No. 48,133
Term of patent 3½ years



The ornamental design for a one piece sport dress, or similar article, substantially as shown.

91,330
DESIGN FOR A BROOCH
Walter S. Robertson, Attleboro, Mass., assignor to Frank S. Land, Kansas City, Mo.
Application May 29, 1933. Serial No. 48,230
Term of patent 14 years



The ornamental design for a brooch, as shown.

91,331
DESIGN FOR A BEVERAGE DISPENSER
Alfred E. Rourke, San Francisco, Calif.
Application August 5, 1933. Serial No. 48,930
Term of patent 3½ years

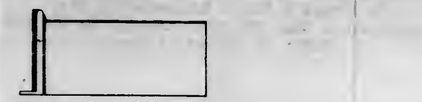


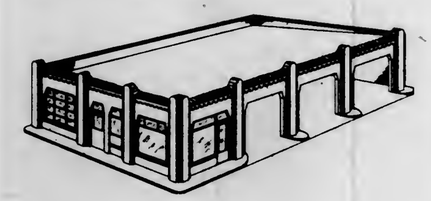
The ornamental design for a beverage dispenser as shown and described.

91,332
DESIGN FOR A SERVICE STATION
Guy L. Rosebrook, Cranberry Lake, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 4, 1933. Serial No. 48,923
Term of patent 14 years



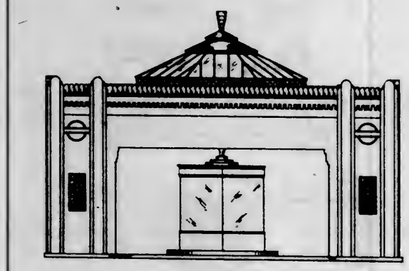
91,332—Continued

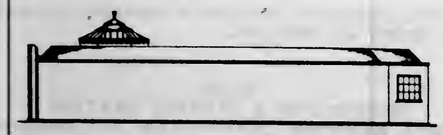


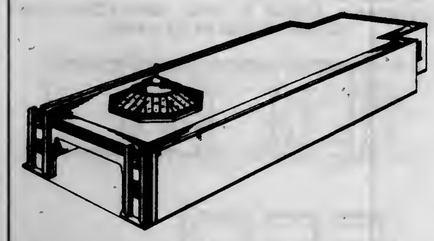


The ornamental design for a service station, substantially as shown and described.

91,333
DESIGN FOR A SERVICE STATION
Guy L. Rosebrook, Cranberry Lake, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 4, 1933. Serial No. 48,924
Term of patent 14 years

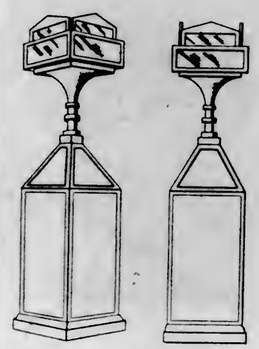






The ornamental design for a service station, substantially as shown and described.

91,334
DESIGN FOR A COMBINED WASTE RECEPTACLE AND ILLUMINATED TOP THEREFOR
Lester E. Stewart, Albany, N. Y.
Application October 10, 1933. Serial No. 49,448
Term of patent 7 years



The ornamental design for a combined waste receptacle and illuminated top therefor, as shown.

91,335
DESIGN FOR A CABINET FOR A GAME TABLE
Harry B. Stoner, Aurora, Ill.
Application October 18, 1933. Serial No. 49,511
Term of patent 7 years



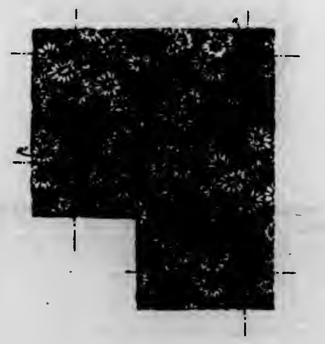
The ornamental design for a cabinet for a game table as shown.

91,336
DESIGN FOR A GOLF CLUB HEAD
Gustavus W. Thompson, Syracuse, N. Y.
Application April 15, 1932. Serial No. 43,506
Term of patent 7 years



The ornamental design for a golf club head, substantially as shown.

91,337
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,941
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,338
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,942
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,339
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,943
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,340
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,945
Term of patent 3½ years



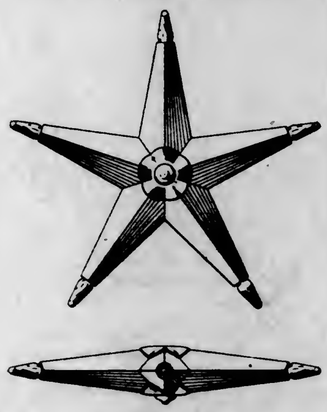
The ornamental design for a textile fabric or similar article as shown and described.

91,341
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,948
Term of patent 3½ years



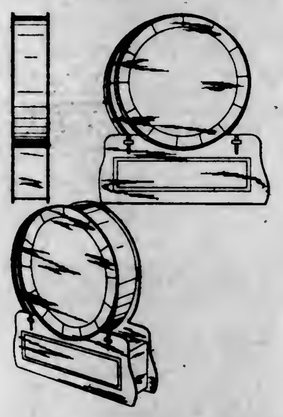
The ornamental design for a textile fabric or similar article as shown and described.

91,342
DESIGN FOR A DECORATIVE ILLUMINATING UNIT
Merrill A. Yohe, New Oxford, Pa.
Application October 20, 1933. Serial No. 49,526
Term of patent 14 years



The ornamental design for a decorative illuminating unit, as shown.

91,343
DESIGN FOR AN ADVERTISING SIGN
Ewald Keiser, Webster Groves, Mo.
Application November 4, 1933. Serial No. 49,651
Term of patent 7 years

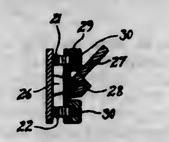


The ornamental design for an advertising sign as shown.

PATENTS

GRANTED JANUARY 9, 1934

1,942,393
AVIATOR'S GOGGLES
Nelson M. Baker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Original application June 15, 1927, Serial No. 199,013. Divided and this application May 21, 1929. Serial No. 364,794
4 Claims. (Cl. 88—43)



1. In a device of the character described, means for holding a pair of lenses, a bridge member secured to each of the lens holding means and extending towards the other lens holding means and overlying each other and clamping means embracing the overlying members comprising a supporting plate in contact with one of the bridge members, said plate having an extension extending beyond the other bridge member, a cam plate pivoted on the extension and a movable clamp plate between the cam and adjacent bridge member said cam being adapted to move the clamp plate against the adjacent bridge member and to lock it there to hold the bridge members in adjusted position.

1,942,394
GOGGLES
Nelson M. Baker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Original application June 15, 1927, Serial No. 199,013. Divided and this application May 2, 1932. Serial No. 608,764
13 Claims. (Cl. 2—14)



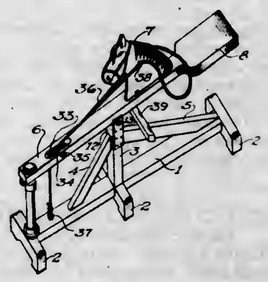
1. In a device of the character described, an outer eyecup frame adapted to hold a lens and having an intake opening on one side thereof and an outlet opening on the opposite side thereof, an inner eyecup frame spaced from and substantially parallel to the outer eyecup frame and having an intake opening on one side thereof and an outlet opening on the opposite side thereof in offset relation to the openings of the outer eyecup frame, a rubber face contacting member having a portion held between the outer and inner eyecup frames, said portion of the rubber between the frames being cut away adjacent the intake and outlet openings to allow the passage of air therethrough.

1,942,395
WATER SPRINKLER
Martin C. Bersted, San Diego, Calif.
Application January 18, 1929. Serial No. 333,291
4 Claims. (Cl. 299—127)



1. In a sprinkler, a base member securable to an outlet of a sprinkling system, a shiftable jet member forming a ball and socket joint with said base member, and a clamp member for securing said jet member in position, said clamp member including an inner peripheral portion diverging from said jet member, said inner peripheral portion forming a deflecting surface for assisting in the directing of fluid issuing from said jet member.

1,942,396
HOBBYHORSE
Wilfrid F. Burket, Tarentum, Pa.
Application July 23, 1932. Serial No. 624,190
3 Claims. (Cl. 272—55)

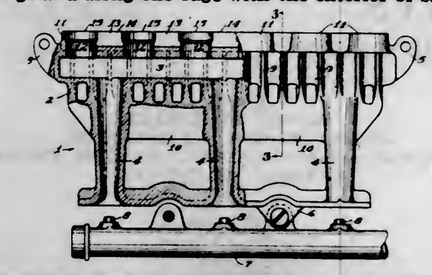


1. A hobby horse structure comprising combination with a teeter arm of a yielding means at one end of said arm for normally biasing the same in one direction of its movement and a manually operable tension means connected to the end of the arm to which the yielding means is attached whereby a force may be exerted in aid of the yielding means to cause a reverse movement of the arm.

1,942,397
GAS BURNER
Robert F. Cuyler, Athens, Ohio, assignor to Ray-Glo Corporation, Athens, Ohio, a corporation of Ohio
Application May 1, 1931. Serial No. 534,327
6 Claims. (Cl. 158—104)

1. In a burner, a horizontally extending manifold provided with a longitudinal passage and having its upper wall formed to include a plurality of laterally spaced aligned burner openings communicating with said passage, and longitudinally extending slots formed in said upper wall between each of said burner openings and com-

municating with the interior of said burner openings and along one edge with the exterior of said

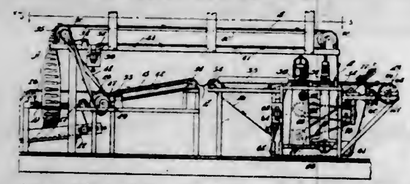


manifold, the bottom of said slots being closed and spaced from the interior of said manifold.

1,942,398
APPARATUS FOR PRODUCING EMBOSSED ARTICLES FROM PLASTIC STRIP MATERIAL

Fred D. Fowler, Newton, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application February 20, 1931. Serial No. 517,351
2 Claims. (Cl. 164—22)

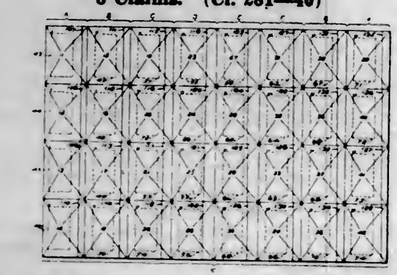


1. Apparatus of the class described comprising, in combination, a backing for plastic sheet material, means operable in cooperation with said backing for severing a portion of the material from an adjacent portion while both portions retain their positions on the backing, and means for stripping one of the portions from the backing and from the other portion of the material.

1,942,399
METHOD OF AND SHEET FOR MAKING FLAT OPENING BOOKS

Charles E. Gale, Quincy, Mass.

Application September 14, 1932
Serial No. 633,088
8 Claims. (Cl. 281—40)

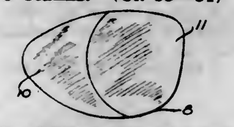


7. The art of preparing book-leaves for binding, comprising preparing a sheet by providing the same with a plurality of scored lines located, respectively, within leaf areas which are to become leaves, the lines differing from one another in location transversely of their lengths in respect to the respective leaf areas, and subsequently assembling the leaves face to face for binding, so that the distances of the scored lines from the binding edges shall increase in inverse ratio to the proximity of the leaves to the middle plane of the leaf assembly.

1,942,400
OPHTHALMIC LENS

Anna E. Glancy, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application August 23, 1929. Serial No. 387,913
8 Claims. (Cl. 88—54)

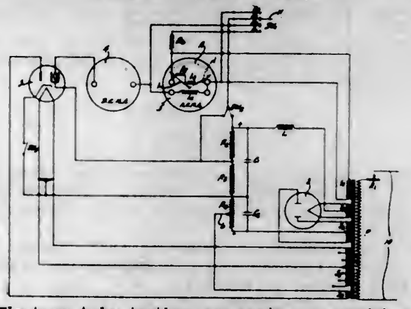


1. A multifocal lens having a focal field of one power on the temporal side of the lens and a focal field of another power on the nasal side of the lens with the optical center of the temporal field located between the geometrical center of the lens and the temporal edge and with the optical center of the nasal field located between the geometrical center of the lens and the nasal edge thereof.

1,942,401
RADIO TUBE TESTER

Robert D. Hickok, Cleveland, Ohio, assignor to Cleveland Patents, Incorporated, Cleveland, Ohio, a corporation of Ohio

Application February 17, 1932. Serial No. 593,509
1 Claim. (Cl. 250—27)

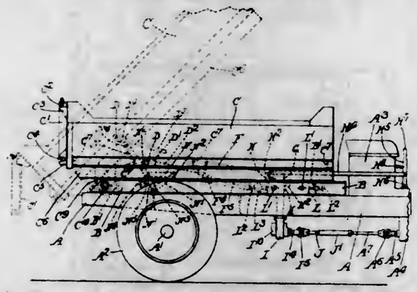


Electron tube testing apparatus, comprising a multiple transformer provided with a primary coil adapted for connection to an alternating current source and provided with means for adjusting the applied potential, a plurality of secondary coils each designed to produce standard output upon adjustment of the primary circuit to a standard applied potential, rectifying means connected to certain of said secondaries and provided with means for supplying predetermined direct current potentials, said rectifying means and certain of said secondaries including means for connection to the circuits of a tube to be tested for applying direct current and alternating current potentials to its electrodes, one of said secondaries being provided with means to supply alternating current potential to the grid circuit, an electrical measuring instrument provided with means whereby it may be operated either as an alternating current milliammeter or as a voltmeter, means for connecting the same to the plate circuit of the tube to be tested, connections between said instrument and another of said secondaries, and means for adjusting the alternating current potential applied from the alternating current source to the primary coil.

1,942,402
HYDRAULIC DUMPING BODY

William C. Anthony and Lester Wachter, Streator, Ill., assignors to The Anthony Company, Streator, Ill., a corporation of Illinois

Application November 21, 1931
Serial No. 576,503
3 Claims. (Cl. 298—22)

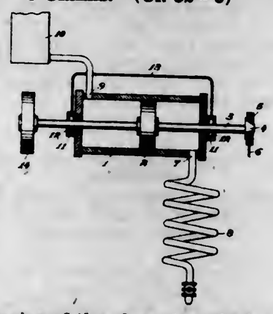


1. In combination, a dumping body, a support therefor, the body arranged on the support for movement with respect thereto, and a dumping unit, a support to which the dumping unit is fixed, said last mentioned support movably mounted and provided with individually adjustable bearings, and means on said dumping body for driving said dumping unit, including a telescopically arranged driven shaft.

1,942,403
FEEDING DEVICE FOR A SPECIAL LATHE

Hans Arni, Falkensee, near Berlin, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

Application July 26, 1932, Serial No. 624,814, and in Germany July 27, 1931
8 Claims. (Cl. 82—5)



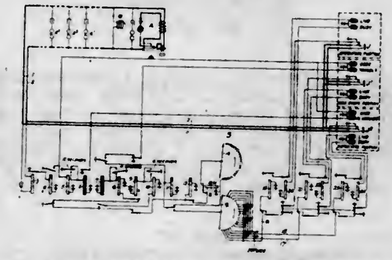
1. In a device of the class described, a cylinder having a piston slidable therein, an inlet to said cylinder on one side of said piston, an outlet from said cylinder on the other side of said piston, a shaft connected to said piston and extending through one end of said cylinder, means to supply fluid under pressure to said cylinder through said inlet, means to slowly withdraw fluid from the cylinder through said outlet, and means, cooperating with said shaft as it is moved by the piston, to form a spiral groove upon a cylindrical object.

5. In a device of the class described, a cylinder having a piston slidable therein, an inlet to said cylinder on one side of said piston, an outlet from said cylinder on the other side of said piston, a shaft connected to said piston and extending through one end of said cylinder, means to supply fluid to said cylinder at said inlet and to withdraw it from said cylinder at said outlet, means to maintain a substantially constant difference in pressure between said inlet and outlet, means, cooperating with said shaft as it is moved by the piston, to form a spiral groove upon a cylindrical object, and means for rotating said piston in the cylinder during its movement lengthwise thereof.

1,942,404
TELEPHONE SYSTEM

Roy B. Ashbrook, San Gabriel, and Alva M. Burnett, Alhambra, Calif., assignors to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application June 29, 1932. Serial No. 619,880
28 Claims. (Cl. 179—27)

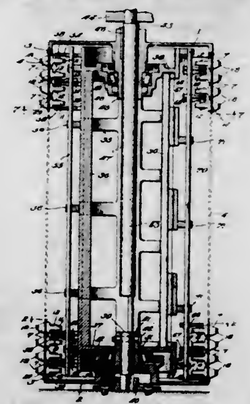


1. In a telephone system, an operator's position, a party line terminating in said position, a magneto for each subscriber on said party line, means responsive only to the operation of one of said magnetos in accordance with one particular code for signalling the operator, and means responsive to the operation of one of said magnetos in accordance with the code assigned to a subscriber on said line for preventing the operator from being signalled.

1,942,405
COTTON PICKING MEANS

Olin H. Basquin, Evanston, and Charles Haraxin and Glendon T. Gerlach, Chicago, Ill., assignors to George R. Meyercord, Chicago, Ill.

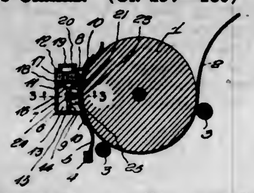
Application June 15, 1932. Serial No. 617,366
16 Claims. (Cl. 56—44)



1. In a machine of the character described, a rotatable drum, rotatable cotton-picker devices mounted on and arranged radially of the drum, said devices having prongs projecting beyond

the periphery of the drum and curved about the axes of rotation of the devices, the prongs on some of the devices being curved in the right hand direction and the others being curved in the left hand direction, and means to rotate said devices about their individual axes when the drum revolves.

1,942,406
LINE GAUGE FOR TYPEWRITERS
Harry U. Bittman, Newark, N. J.
Application February 14, 1933. Serial No. 656,723
8 Claims. (Cl. 197—189)

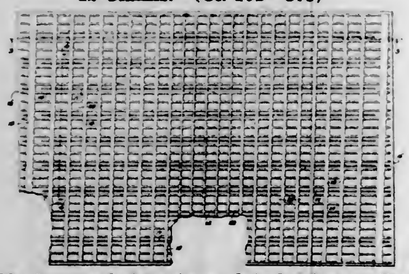


1. In a typewriter, a roller, a resilient paper holding strip bearing against said roller, and a register carried by said strip and having a dial, an actuating wheel held against said roller by the resiliency of said strip, and means for transmitting motion from said wheel to said dial when the wheel is rotated by turning of the roller.

1,942,407
EMBALMING PREPARATION
William C. Black, Denver, Colo., assignor of one-half to Chauncey G. Wilson, Denver, Colo.
No Drawing. Application March 19, 1932
Serial No. 600,055
2 Claims. (Cl. 27—22)

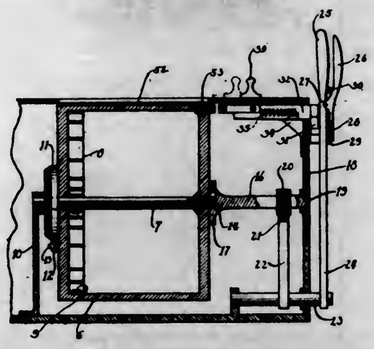
1. An embalming fluid for jaundiced bodies comprising a solvent fluid distributer capable with respect to volume and fluidity, of diffusion over a comparatively wide region of a body from a point at which the distributer is injected into the body, and benzoyl peroxide held in solution in the distributer.

1,942,408
STEREOTYPE PRINTING PLATE
Martin W. Brueshaber, Chicago, Ill., assignor to Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application March 13, 1931. Serial No. 522,314
12 Claims. (Cl. 101—375)



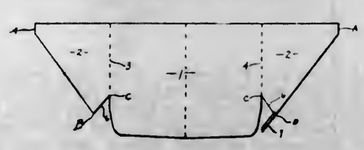
10. A curved stereotype plate having on its inner surface a plurality of circumferential ribs and a plurality of longitudinally extending ribs, the longitudinal ribs being formed with sides which converge towards the axis of curvature of the plate, the sides nearest to the central portion of the plate converging towards points beyond the outer surface of the plate, whereby the plate can be removed from the mold without distortion.

1,942,409
APPOINTMENT REMINDER CLOCK
Albert Woodburn Carver and Frank Murphy Hazleton, Muscatine, Iowa
Application August 5, 1929. Serial No. 383,584
1 Claim. (Cl. 161—1)



A device of the type described comprising a housing having an opening therein, a clock mechanism disposed in the housing and comprising in part a driving shaft, having a driving gear connected therewith, a driven shaft rotatably disposed in the housing, a driven gear connected with the driven shaft and in mesh with the driving gear, said driven gear being provided with a projecting lug, a drum mounted on the driven shaft and rotatable with respect thereto, said drum having a projecting portion positioned for engagement with the lug for rotating the drum when the driving gear is rotated, an auxiliary shaft positioned in alignment with the driven shaft and fixedly connected with the drum, an auxiliary gear mounted on the auxiliary shaft, a toothed segment movably mounted in the housing and normally positioned out of engagement with the auxiliary gear, and a lever positioned without the housing and connected with the toothed segment, said lever being movable for moving the toothed segment into mesh with the auxiliary gear for rotating the drum independently of said clock mechanism.

1,942,410
POCKET
Ulysses G. Charles, Wichita, Kans.
Application October 28, 1930. Serial No. 491,691
3 Claims. (Cl. 2—254)

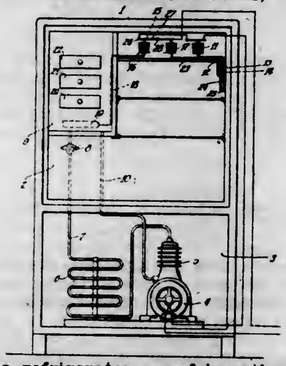


1. In combination with a pocket having a hand opening therein, a flap member integrally connected to the pocket on each side of the hand opening and being turned inward, the inner edges of the flaps diagonally positioned across the pocket and extending from near the lower end of the hand opening to the upper opposite corner of the pocket, the flaps being separately arranged as accessible means into the pocket, and as sealing means for a hand opening, and to prevent articles contained in the pocket from passing out freely thru the hand opening.

1,942,411
TELEPHONE TRANSMISSION LINE
Frederick M. Crape, Muncie, Ind., assignor to Indiana Steel & Wire Company, Muncie, Ind., a corporation of Indiana
No Drawing. Application June 8, 1931
Serial No. 543,024
17 Claims. (Cl. 173—13)

1. An overhead telephone-transmission line, comprising a series of many spans of wire of hypo-eutectoid carbon steel containing not less than 0.25% of carbon.

1,942,412
MEANS FOR DEFROSTING COOLING ELEMENT OF MECHANICAL REFRIGERATORS
John A. Dienner, Evanston, and John E. Gardner, Chicago, Ill.
Application August 22, 1927. Serial No. 214,490
16 Claims. (Cl. 62—4)



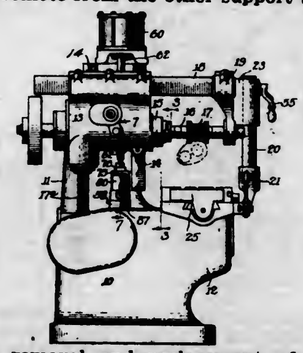
1. In a refrigerator, a refrigerating compartment and a cooling element associated with said compartment, mechanically operated means for lowering the temperature of said cooling element, a thermal responsive device responsive to the temperature of said cooling element, and a thermal responsive device responsive to the temperature of said compartment, and means for controlling said mechanical means in accordance with the temperature differential between said thermal responsive devices.

1,942,413
VARNISH COMPOSITION AND SHELLAC SUBSTITUTE
Joseph B. Dietz, Lansdowne, and Edmund F. Oeffinger, Philadelphia, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 19, 1932
Serial No. 594,143
20 Claims. (Cl. 134—26)

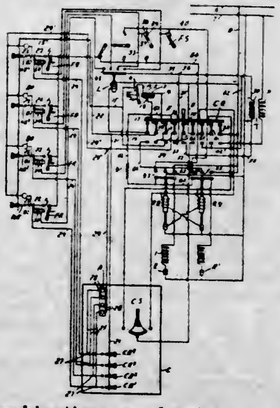
18. A varnish comprising a mixture of 18–20 parts of Batu gum, 10–20 parts of rosin, 1–2 parts of lime, and 20–40 parts of Chinawood oil, which mixture has been heated to over 500° F., dissolved in a varnish thinner.

1,942,414
ACTUATING MEANS FOR MACHINE TOOLS
Leo A. Dumser and Paul S. Jackson, Rockford, Ill., assignors to Sundstrand Machine Tool Co., Rockford, Ill., a corporation of Illinois
Application February 13, 1929. Serial No. 339,618
6 Claims. (Cl. 90—15)

1. A machine tool having, in combination, a frame, a support mounted on said frame, a cutter on said support, a work support mounted on the frame, one of said supports being movable toward and away from the other to bring the cutter into or move it out of operative relation with a work piece carried by said work support, pressure fluid operated means for moving said movable support in either direction, said means having a sufficient range to move said support to an out-of-the-way position remote from the other support to facilitate the removal and replacement of a work piece, an adjustable stop for limiting the movement of said movable support toward the other support, and a stop device movably mounted on said frame and adapted to be positioned in the path of said movable support to limit the retractive movement thereof to an intermediate position, said device being readily movable from its effective position to permit the support to be moved to its remote position.



1,942,415
DUAL SYSTEM OF CONTROL FOR ELEVATORS
Vincent Federici, Bronx, N. Y., assignor to Gurney Elevator Company, Inc., New York, N. Y., a corporation of Pennsylvania
Application August 31, 1929. Serial No. 389,718
15 Claims. (Cl. 187—29)

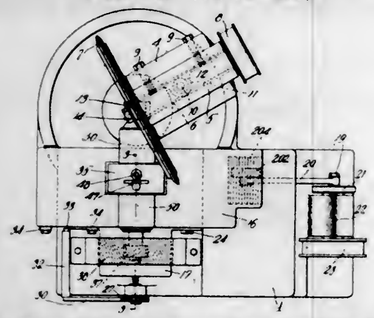


1. In combination, an elevator car, push-button controlled circuits to control the car from a landing and control circuits governed by push buttons in the car, and an annunciator in the car having a circuit responsive to the landing push-button, said circuit being by way of said car push-button control circuits to a point on the car wherefrom it branches to connect with said annunciator.

1,942,416
HELICAL GEAR GRINDING MACHINE

Edwin R. Fellows, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont

Application September 29, 1931, Serial No. 565,832. Renewed June 6, 1933
7 Claims. (Cl. 51—123)

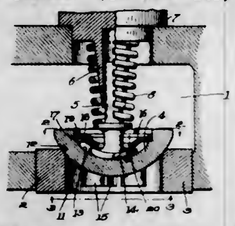


1. A machine for generating involute helical gears comprising a cutting tool, a work holder, means for effecting relative movements between the work holder and tool both lengthwise and transversely of the axis of the work piece in the course of generating a single gear tooth, and means comprising a helical master gear connected to the work spindle, and a conjugate rack for imparting rolling movements to the work spindle and progressive angular movements in one direction with relative axial movement between the work spindle and rack.

1,942,417
VALVE

John J. Ferlin, Los Angeles, and Herbert W. Goetz, Alhambra, Calif.

Application April 17, 1929. Serial No. 355,783
8 Claims. (Cl. 251—129)



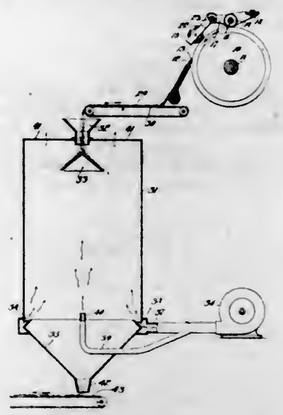
5. In combination, an annular valve seat, a valve comprising a segment of a hollow sphere, the outer surface of said segmental spherical valve and said annular valve seat comprising cooperating contacting surfaces, a valve stem having a mushroom head adapted for sliding abutment against the inner surface of the segment of the hollow sphere so as to permit revolution of the valve relative to its stem, and an abutment in the hollow sphere slidably overlying the head of the valve stem for securing the valve and head against relative movement axially of the valve stem.

1,942,418
METHOD OF DRYING SOAP FLAKES

Harry P. Forté, Newton Highlands, Mass., assignor to Lever Brothers Company, Cambridge, Mass., a corporation of Maine

Application May 3, 1932. Serial No. 608,881
2 Claims. (Cl. 87—16)

1. The process of treating soft curved soap flakes to indefinitely retain the curvature initially imparted in them to maintain the volume of packaged flakes, consisting of quickly conveying the soft curved soap flakes to a cooling chamber for precipitation therethrough, introducing the flakes centrally of the upper end of the cooling chamber, individually separating the soap flakes at the point of entrance to the cooling chamber and dispersing them laterally of the entrance, and then retarding precipitation of the



flakes in their travel through the chamber by a counter-current flow of cool air admitted to the chamber centrally and peripherally thereof whereby the flakes when discharged at the lower end of the cooling chamber will be sufficiently solidified to retain the curvature initially imparted in them and the packaged flakes remain substantially unaltered in individual shape and aggregate volume over a period of time.

1,942,419
PROCESS OF MAKING SHOES

Myron O. Frost, St. Louis, Mo., assignor to Johnson, Stephens & Shinkle Shoe Co., St. Louis, Mo., a corporation of Missouri

Application March 22, 1929. Serial No. 349,104
6 Claims. (Cl. 12—142)



1. In the art of making shoes, the process comprising, lasting the upper and cementing and tacking the same, pulling tacks along a part of the lasted upper pounding the same while the adjacent part of the lasted upper is held tacked and subsequently removing the tacks from the part which was held tacked during the pounding operation.

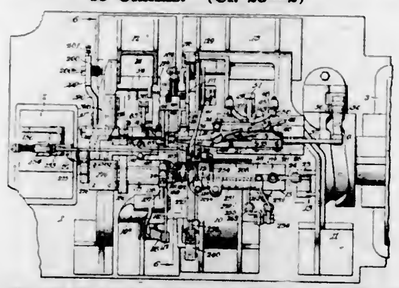
5. In the art of making shoes, the process comprising, lasting and cementing the upper along the sides, lasting and cementing the upper around the toe, placing a sole on and temporarily securing the same to the margin of the upper, and stitching the sole to the upper while so secured.

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1,942,420
MACHINE FOR ASSEMBLING MATTRESS TUFTS AND TUFTING-CORDS

John F. Gail, Evanston, Ill., assignor to Simmons Company, New York, N. Y., a corporation of Delaware

Application July 9, 1930. Serial No. 466,779
43 Claims. (Cl. 28—2)

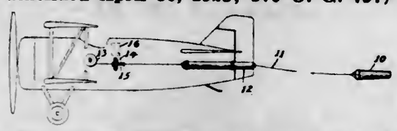


1. In a tuft and cord assembling machine, the combination of a tuft feeder, a cord feeder, means for forming a two-ply loop of cord having a closed end, and means for attaching the closed end of said loop to a tuft.

1,942,421
APPARATUS FOR MEASURING ALTITUDE

Ross Gunn, Washington, D. C.

Application February 15, 1932. Serial No. 593,084
4 Claims. (Cl. 177—352)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



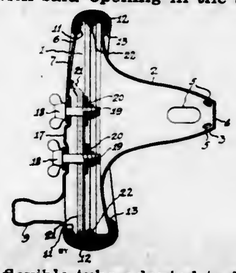
3. An aircraft altitude measuring device of the capacity type, comprising a wire parallel to and exteriorly located with regard to the fuselage of said aircraft acting as a sensitive capacity element; an aerodynamic drag attached to the end of said wire for maintaining it taut and in a substantially fixed relationship to the body of the aircraft, and a concentric double walled metallic shield fixedly surrounding said wire at a point adjacent the movable rudder and elevating control surfaces of said aircraft whereby the capacity system represented by the said aircraft and said wire is maintained at a constant value.

1,942,422
DOUCHE DEVICE

Daisy B. Hanna, Indianapolis, Ind.

Application June 17, 1931. Serial No. 544,943
1 Claim. (Cl. 128—241)

A douche device comprising a hollow body formed of thin sheet metal and of oval configuration in end elevation, one wall of said body being formed outwardly into conical form to provide a hollow conical irrigator having an opening therein at its apex, said cone being located centrally of the wall of the body and merged into the peripheral portion of said wall, said body having a substantially flat side wall at its side opposite said cone and said flat side wall being formed with an opening adjacent the upper end of the wall and cut away throughout a major portion thereof below said opening to provide a large opening into said body, a door to close said large opening and formed with a discharge nipple adjacent its lower end, bars extending across said body within the interior thereof, fastening means to engage said bars and hold said door in closed position, said opening in said flat side wall adjacent the upper end thereof being above and out of axial alignment with said opening in the apex of said

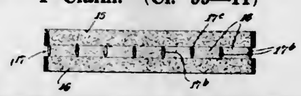


cone, and a flexible tube adapted to be projected through said opening in said flat side wall and through said apex opening of said cone, said tube being bent within said body because of said disalignment of said openings, whereby the outer end of said tube is held in an upwardly directed position for the attachment thereto of a fluid supply tube.

1,942,423
EDIBLE ARTICLE

Augustus M. Henry, Brooklyn, N. Y.

Application June 17, 1931. Serial No. 544,969
1 Claim. (Cl. 99—11)



A sandwich including, in combination, an upper edible sheet structure defining the expanse of the sandwich, a lower edible sheet structure of similar shape, each of said structures having a face of rough texture, and an interposed edible sheet structure having spaced and joined walls providing a plurality of clear-through compartments closed all around by said walls, said walls having their end edges applied to said faces of the two sheet structures first mentioned to close said compartments at their opposite ends and at the same time to coact with the rough texture of said faces to combat shifting of any of said sheet structures relative to another, there being placed in said compartments separate masses of a fluent edible material.

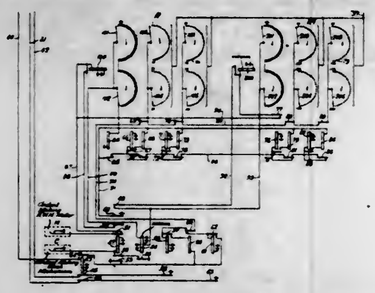
1,942,424
SIGNALING SYSTEM

Harry E. Hershey, Oak Park, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application July 13, 1931. Serial No. 550,357
6 Claims. (Cl. 177—311)

1. In a signaling system, a switch having a wiper adapted to be advanced in a step-by-step manner from a normal position through a plurality of positions, means for operating said switch to step said wiper at a varying speed from its normal position, means for marking a desired one of said plurality of positions by connecting an electrical potential thereto, means responsive to said wiper encountering said potential for giving a signal indicative thereof, and means operating automatically at the end of a given time interval to cause said switch to re-

turn said wiper to its normal position, said return to normal of said wiper preventing said giv-



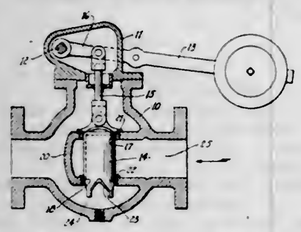
ing of a signal if said wiper fails to encounter said potential within said time interval.

1,942,425
FURRIER'S ART
Peter Holman, Virginia, Minn.
Application July 9, 1931. Serial No. 549,618
3 Claims. (Cl. 149—28)



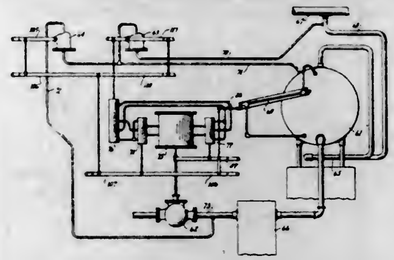
1. In the repair or manufacture of a fur garment, the successive steps of juxtaposing a wet and taut skin and a wet and taut backing cloth, applying a water carried latex base adhesive to the wetted materials, and allowing the whole to dry.

1,942,426
VALVE
William L. Hunter and Harry H. Weining, Erie, Pa., assignors to Northern Equipment Company, Erie, Pa., a corporation of Pennsylvania
Application January 16, 1931. Serial No. 509,153
8 Claims. (Cl. 251—78)



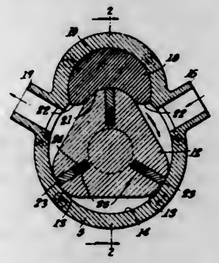
1. In a valve, a casing having an inner chamber with an inlet and an outlet, a cup-shaped partition in said chamber having two coaxial openings in its opposite walls, a cylindrical plunger movably mounted in said openings, said plunger having a bore extending longitudinally therethrough, and having ports through its wall at one end only, and means for reciprocating said plunger to move said ports through one of said coaxial openings.

1,942,427
FEED WATER REGULATOR
William L. Hunter and Kennedy B. Whitley, Erie, Pa., assignors to Northern Equipment Company, Erie, Pa., a corporation of Pennsylvania
Application February 4, 1931. Serial No. 513,289
18 Claims. (Cl. 122—451.2)



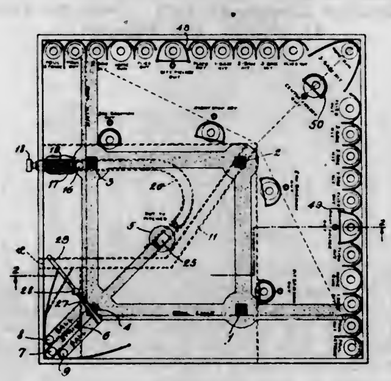
11. In a boiler system, means for operating the feed water valve of the system, said means comprising boiler water level responsive means operable at light loads only, and other boiler water level responsive means operable at abnormal boiler water levels.

1,942,428
COMPRESSOR
Miller R. Hutchison, Jr., Madison, N. J., assignor to Multicycol Pump & Engine Corporation, New York, N. Y., a corporation of New York
Application January 21, 1933. Serial No. 652,862
1 Claim. (Cl. 230—149)



A compressor or the like, comprising a casing having a generally cylindrical chamber with inlet and outlet and a partly cylindrical bearing seat intermediate the inlet and outlet offset from said cylindrical chamber on an axis parallel with the axis of the same, an impeller of symmetrical form rotating in said chamber and composed of tangentially related plane and outwardly convex surfaces and rotating with said outwardly convex surfaces in sealing relation with the surrounding cylindrical wall portion of the chamber, a partly cylindrical rocker seated with its cylindrical portion in said bearing and thereby journalled in the casing intermediate the inlet and outlet on a fixed axis parallel with the axis of rotation of the impeller and having a hollow face opposed to the impeller and terminating at opposite sides of the hollow in convexly rounded bearing surfaces in constant sealing engagement with the tangentially related outwardly convex and plane surfaces of the impeller and whereby said rocker is oscillated in opposite directions wholly by said impeller and continuously in doubly sealed relation therewith.

1,942,429
MINIATURE BASEBALL GAME
Harold F. Jacobs, Brooklyn, N. Y.
Application February 4, 1933. Serial No. 655,199
3 Claims. (Cl. 273—89)



1. A miniature base ball game comprising a game board upon which a base ball field having player positions is simulated, a ramp mounted beneath the game board and provided with a sloping bottom converging toward the center into a delivery ramp, openings located at the several player positions through which the ball may drop into the first mentioned ramp, stops comprising resilient members positioned at said openings to deflect the ball, a spring operated device positioned at one end of a runway beneath the board for projecting the ball through said runway to the pitcher's position and thence above the board to the batter's position, a batting device comprising a free-swinging bat carried by a pivoted mounting entirely under the control of the player representing the batter independently of any other player or mechanism, means positioned in said runway for varying the speed and direction of the ball delivered to the batter, and openings located around the outfield into which the ball may fall into the first mentioned ramp indicating various plays determined by the direction of the batted ball.

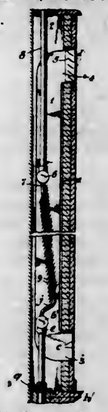
1,942,430
MANUFACTURE OF ACYL-BENZOIC ACID COMPOUNDS
Bernard H. Jacobson, Charleston, W. Va., assignor, by mesne assignments, to The Calco Chemical Company, Inc., Bound Brook, N. J., a corporation of Delaware
Application June 28, 1929. Serial No. 374,474
8 Claims. (Cl. 260—64)

1. In the manufacture of an acyl-benzoic acid, the process which comprises reacting, in the presence of anhydrous aluminum chloride and at a reaction temperature not substantially exceeding 40° C. between phthalic anhydride and an excess of a liquid benzenoid compound reactive under such conditions, drowning the resultant reaction mass with sufficient cool water containing a mineral acid to liberate an acyl-benzoic acid and produce a diluted mixture whose temperature is sufficiently low to prevent the excess of said benzenoid compound from holding more than a minor part of said acyl-benzoic acid in solution, and then separating undissolved acyl-benzoic acid directly from said mixture.

1,942,431
REFRACTORY BRICK AND PROCESS OF MAKING
Philip H. Jung, Huntingdon, Pa., assignor of one-half to Thomas N. Kurtz, Mount Union, Pa.
No Drawing. Application November 18, 1931
Serial No. 575,957
7 Claims. (Cl. 25—156)

1. The new and improved process of making firebrick which comprises calcining at high temperatures raw material having high alumina and low silica contents, bonding the calcined product with a mineral material of colloidal character substantially free from or low in silica content, molding the final mixture to the desired form, and drying and burning the molded article.

1,942,432
HEATING APPARATUS
Dwight D. Kimball, Queens, and Victor J. Cucci, Brooklyn, N. Y., assignors to Columnar Heat, Incorporated, New York, N. Y., a corporation of New York
Application May 17, 1929, Serial No. 363,964
Renewed June 2, 1933
9 Claims. (Cl. 257—136)

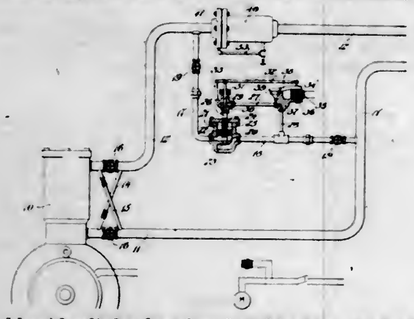


9. A radiator unit for a temperature modifying system, comprising a plurality of parallel tubular members each formed with a straight inclined portion and a crooked end portion, headers into which the ends of said tubular members are connected, said headers adapted to be connected into a riser pipe, heat radiating fins mounted on the straight inclined portions of said tubular members, and a casing enclosing said tubular members and headers, said casing formed at its ends with openings for the flow of air therethrough.

1,942,433
AUTOMATIC UNLOADER FOR COMPRESSORS
Robert F. Lindsay, Greenville, S. C., assignor to Etta M. Lindsay, Greenville, S. C.
Application October 16, 1930. Serial No. 489,178
4 Claims. (Cl. 230—22)

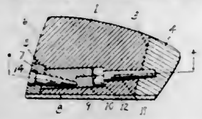
1. An automatic unloader for a motor driven compressor comprising, in combination, a by-pass conduit connecting the discharge side to the suction side; a normally closed differential pressure operated valve in said by-pass conduit; a normally closed valve connected to relieve the seating pressure on said differential valve; an electromagnet operatively associated with said relief valve and connected in circuit with the com-

pressor motor and means connected between the electromagnet and the relief valve normally to



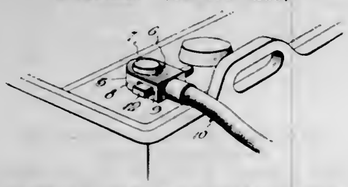
hold said relief valve closed and to open said relief valve when the motor circuit is broken.

1,942,434
GOLF CLUB
Richard A. Link, Detroit, Mich., assignor to The L. A. Young Company, Detroit, Mich.
Application March 24, 1932. Serial No. 600,963
6 Claims. (Cl. 273—77)



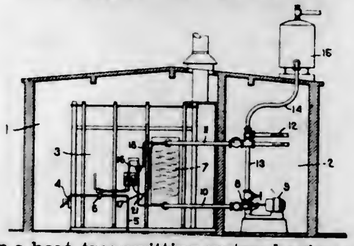
1. In a golf club, the combination of a head member having a striking plate recess in its face and a weight recess in its rear edge, and a plurality of transverse shouldered bores opening to said recesses, a weight arranged in said weight recess, screws disposed in said bores to clamp said weight in said weight recess and with their heads in supporting engagement with the shoulders of the bores, plugs arranged in said bores behind said screws, a face plate arranged in said face plate recess to cover said plugs, and a filister head screw arranged through said face plate and threaded into one of said plugs.

1,942,435
BATTERY CONNECTER
Edward Loosbrock, Lincoln, Nebr.
Application November 5, 1932. Serial No. 641,416
2 Claims. (Cl. 173—259)



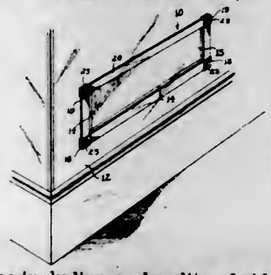
1. A battery connecter comprising a one-piece metal block having a continuous-walled opening to receive a terminal post, said block being provided with a slot intersecting one side of said opening, said slot having a side wall spaced laterally outward from said opening, a conducting cable secured to the block and formed of a plurality of wires having their ends exposed at the aforesaid side wall of said slot, and a longitudinally tapered metal wedge in said slot to engage the terminal post, said wedge having a surface contacting with said exposed wire ends.

1,942,436
PROTECTIVE DEVICE FOR COMMERCIAL OIL HEATING SYSTEMS
John W. F. Macdonald, Brighton, Mass., assignor to Parks-Cramer Company, Boston, Mass., a corporation of Massachusetts
Application January 19, 1933. Serial No. 652,489
11 Claims. (Cl. 122—504)



1. In a heat-transmitting system having means for circulating a fluid heat-transporting medium and means for heating said medium, means for controlling said heating means comprising pressure-sensitive means responsive only to pressure generated in said circulating medium in consequence of the circulation thereof, and thermosensitive means subject to the temperature of said circulating medium in combination operable in response to deficient circulation and consequent deficient pressure in said circulating medium or in response to excessive temperature of said medium to discontinue the operation of said heating means.

1,942,437
FRAME
Harry M. Magid, Chicago, Ill.
Application July 1, 1932. Serial No. 620,400
6 Claims. (Cl. 40—125)

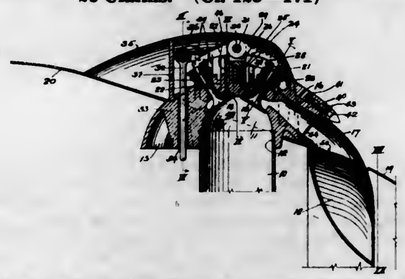


5. A frame including a plurality of sides, a plurality of combined spacing and fastening means for respectively spacing said frame from its support and for fastening together the ends of said sides to form a frame, and pieces of nitrocellulose surmounted on said spacing and fastening means for adhesively fastening said frame to a support by the use of nitrocellulose solvent applied to said pieces of nitrocellulose.

1,942,438
PAPER PRODUCT
George J. Manson, Hawkesbury, Ontario, Canada, assignor to Manson Chemical Company, a corporation of New Jersey
No Drawing. Application May 2, 1930
Serial No. 449,363
17 Claims. (Cl. 92—21)

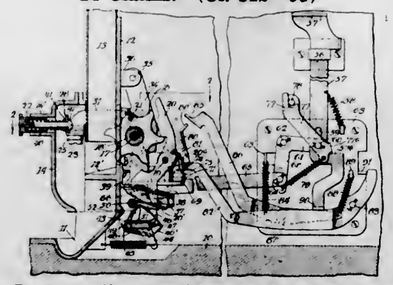
1. A paper product sized with a composition containing a wax, an organic dispersion agent, and an organic stabilizing agent.

1,942,439
CYLINDER HEAD
Harry L. McPherson, Memphis, Tenn.
Application June 15, 1931. Serial No. 544,391
23 Claims. (Cl. 123—171)



19. An air-cooled, internal-combustion-engine cylinder head, having an inlet valve, an exhaust valve, and valve-actuating mechanism, all carried thereby, and an elongated housing covering and protecting said parts, and stream-lined to converge from its major portion toward said inlet valve.

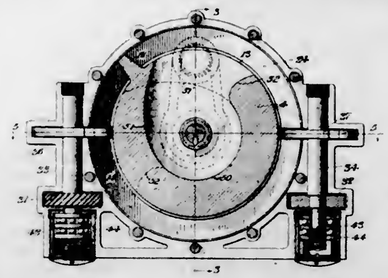
1,942,440
VENDING MACHINE
Emery Mihalek, Chicago, Ill., assignor to O. D. Jennings & Company, Chicago, Ill., a corporation of Illinois
Application September 10, 1930
Serial No. 480,856
14 Claims. (Cl. 312—95)



1. In a vending machine, a plurality of goods compartments, separate normally inoperative devices for effecting delivery from said compartments, normally inoperative means for simultaneously shifting all of said devices into position for operation, manually operable members for respectively operating said devices through said positioning means, means controlled by the operation of any one of said members for preventing the operation of any of the others, and means controlled by the operation of any one of said members for restoring said positioning means to normal inoperative condition.

1,942,441
PUMP
Porter S. Morgan, Darien, Conn., assignor to John B. Russell, New York, N. Y.; John B. Russell, Jr., and Joseph E. Russell also known as Joseph B. Russell, executors of said John B. Russell, deceased
Application June 9, 1927, Serial No. 197,729
Renewed February 11, 1933
7 Claims. (Cl. 103—125)

1. In a pump, in combination, a casing having an annular piston chamber, a rotor rotatable in said casing, a piston on said rotor adapted to move in said chamber as said rotor rotates, and means including a pair of rotary valves for providing a fixed closure in said chamber ahead of said piston at all times; said rotor having an intake opening on one side thereof, and a discharge opening on the other side, said intake opening comprising a bottom semi-circular side concentric with an axis of said rotor, a leading side, and a following side, said following side being radially flared, whereby the fluid entering said chamber through said intake opening is deflected by said following side from said rotor.



1,942,442
GAS MASK HEAD HARNESS
Armand V. Motsinger, Otter Point, Md.
Application December 21, 1931
Serial No. 582,345
5 Claims. (Cl. 128—140)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

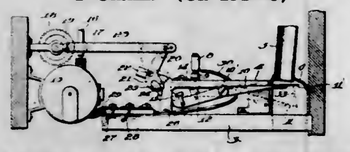


1. A head harness comprising a head pad adapted to be positioned against the back of a wearer's head, said pad being formed of two members, a continuous coiled spring having spaced portions thereof looped between the two members of said head pad, and means securing said two members together and also preventing slippage of said coiled spring.

4. Head harness for resiliently securing a device against the face of a wearer comprising a head pad having two complemental members, a continuous one-piece resilient member having spaced portions thereof looped between the two complemental head pad members, and means securing said complemental head pad members together and binding the portions of the resilient member therebetween against movement.

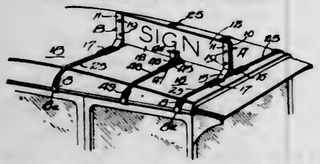
5. In combination, a device to be resiliently retained against the face of a wearer, a head harness including a head pad adapted to be positioned against the back of a wearer's head, a coiled spring formed into a plurality of closed loops radiating outwardly from said head pad, means securing said loops to said head pad to prevent slippage of said spring, a fabric sleeve covering said spring to expand and contract therewith without wrinkling, and means connecting the outer portions of said loops with said device.

1,942,443
CHECK CONTROLLED SWITCH MECHANISM
Victor Neumann, Los Angeles, Calif., assignor to John F. Meyer, Pasadena, Calif.
Application January 25, 1932. Serial No. 588,552
1 Claim. (Cl. 194—9)



In a switch adapted to control cyclic operation of a motor, a frame, a pair of spaced contacts mounted on and insulated from said frame, a coin operated lever pivotally mounted on said frame and having one end thereof disposed to be engaged by a coin passed through a coin chute, an armature on said lever and positioned on the side of the pivot therefor opposite the coin engageable end thereof and adapted to bridge said contacts to close the circuit to said motor when said lever is moved upon engagement of a coin therewith, a magnet on said frame, a stud of magnetic material on said lever adjacent said armature and adapted to be attracted and held by said magnet when said lever is pivoted by engagement of a coin therewith, a trip lever mounted on said frame, a link adapted to be reciprocated by said motor in the operation thereof and connected to said trip lever, a projection on said coin operated lever at the end thereof opposite that adapted to be engaged by a coin, and a dog on said trip lever adapted to move freely past said projection at the start of a cycle of operation of said motor and adapted to rigidly engage said projection to disengage said stud from said magnet and said armature from said contacts at the end of a cycle of operation of said motor.

1,942,444
VEHICLE TOP SIGN
Frank J. O'Connor, Dwight, Ill.
Application February 1, 1933. Serial No. 654,562
9 Claims. (Cl. 40—129)



1. In a sign of the character described, a pair of standards, means for holding said standards resiliently upon a vehicle top in fore and aft relation to each other, a sign proper extending from one of said standards to the other thereof, and cooperating means between each standard and the associated end of the sign proper for readily attaching the sign proper to the standards and for readily releasing the same therefrom.

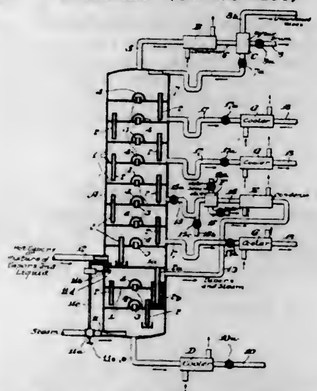
1,942,445
METHOD OF MAKING SHAFTS FOR GOLF CLUBS AND THE LIKE
John M. Oldham, Detroit, Mich., assignor to Leonard A. Young, Detroit, Mich.
Original application October 30, 1931, Serial No. 572,129. Divided and this application June 20, 1932. Serial No. 618,179
3 Claims. (Cl. 29—156)

1. The method of making shafts for golf clubs consisting of forming a longitudinally split outer tube with inturned flanges on its longitudinal edges, spirally twisting such tube, hardening and tempering, and inserting a straight split inner tube longitudinally into said outer tube with



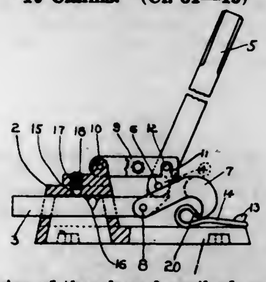
the edges of the inner tube in clamping engagement with the flanges of the outer tube whereby the inner tube is spiraled.

1,942,446
FRACTIONAL DISTILLATION
Albert G. Peterkin, Jr., Bryn Mawr, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 24, 1929. Serial No. 357,664
8 Claims. (Cl. 196—100)



7. In the art of fractionation, the process which comprises passing liquid to be fractionated, at least a portion whereof is in the vapor state, into a fractionating system, separating the liquid portion from the vapor portion and removing it from the system, passing steam into contact with said liquid portion whereby vaporization of at least a part thereof is effected, conducting the part so vaporized in mixture with steam out of contact with the part which remains liquid, condensing the vapors, separating steam therefrom, and returning the condensate to the fractionating system.

1,942,447
TOOL
Carlton C. Prescott, Menlo Park, N. J.
Application April 2, 1932. Serial No. 602,732
10 Claims. (Cl. 81—15)



1. A device of the class described, comprising a base having a guide means at one end, a movable member mounted in connection with and in movable relation to said guide means, a member pivotally mounted on one end of said movable member, said pivotally mounted member being adjacent to said base and having its free end hook-shaped and facing said base, and means for forcing the hook end of said pivotally mounted member toward said base.

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1,942,448
HOSIERY DRYING FORM
Thomas W. Prosser and John H. Wahlbeck, Kankakee, Ill., assignors to Paramount Textile Machinery Co., Chicago, Ill., a corporation of Illinois
Application October 3, 1931. Serial No. 566,758
13 Claims. (Cl. 223—17)



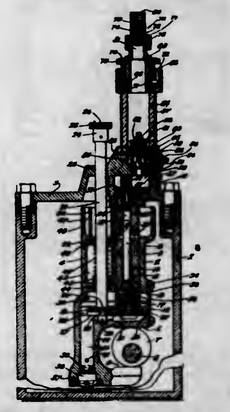
1. A hollow, hosiery drying form for receiving a heating medium comprising a steam inlet pipe and an overflow pipe for condensate extending lengthwise within the form, the upper end of the overflow pipe terminating substantially at a line approximating the junction of the sheer leg and reenforced foot portions of a stocking boarded on the form and the upper end of the inlet pipe extending beyond and terminating closer to the upper end of the form than the outlet pipe.

1,942,449
SIDING MATERIAL
Frederic H. Rahr, Brookline, Mass., assignor to The Patent and Licensing Corporation, Boston, Mass., a corporation of Massachusetts
Application February 4, 1930. Serial No. 425,858
6 Claims. (Cl. 20—5)



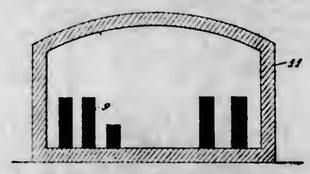
1. As a new article of manufacture, a strip comprising a relatively thick layer of asphaltic material composed of a mixture of bitumen, fibre and hardening fillers, said layer having spaced areas of the lower portion of one face thereof brought into relief by relatively narrow depressions extending transversely of the strip and by a coplanar depression extending longitudinally of the strip, and a depression extending longitudinally thereof below the plane of said coplanar depressions and defining a shoulder substantially parallel to the lower edge of the strip.

1,942,450
LUBRICATOR
Edwin W. H. Rennick, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind., a corporation of Indiana
Application September 4, 1930. Serial No. 479,685
14 Claims. (Cl. 184—27)



1. In lubricating mechanism, the combination with means forming a primary pump and a secondary pump of smaller capacity, said means comprising co-operating parts including a part common to both pumps, a part co-operating with the common part to provide the primary pump and another part also co-operating with the common part to provide the secondary pump, said common part being relatively reciprocable with respect to the co-operating parts an overflow cup formed in one of said parts for receiving lubricant from said primary pump and a conduit in the common part for directing a portion of it to said secondary pump while the excess overflows, and means for distributing lubricant from said secondary pump.

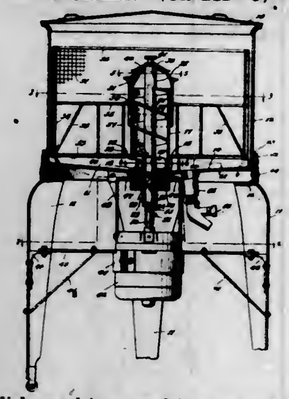
1,942,451
WOVEN WIRE AND METHOD OF PRODUCING THE SAME
Elmer D. Reynolds, Dixon, Ill., assignor to Reynolds Wire Co., Dixon, Ill., a corporation of Illinois
Application February 26, 1930. Serial No. 431,631
9 Claims. (Cl. 29—148)



1. The method of making wire cloth which includes weaving wire of a diameter less than .02 of an inch into cloth of less than 12 mesh, and heating the cloth to a temperature within the bluing range of steel for a sufficient length of time to substantially relieve the strains in the wire.

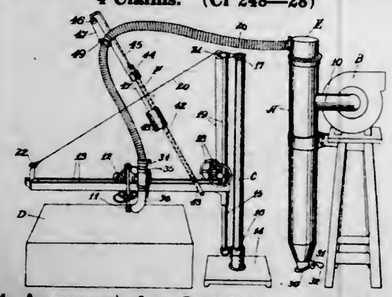
5. A wide-mesh woven wire cloth of mesh less than 12, the strands of which are held together solely by reason of their weaving, said strands being less than .02 of an inch in diameter, having no appreciable crimp and no appreciable tendency to move with respect to each other under their own force.

1,942,452
DISHWASHING MACHINE
Myron C. Rogers, Morrison, Ill.
Application August 25, 1931. Serial No. 559,285
3 Claims. (Cl. 141—9)



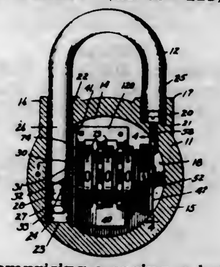
1. A dish washing machine comprising a support, a container thereon, a cylindrical pump housing in the container having a disk bottom bearing on the bottom of the container and having intake openings in the side wall contiguous with the bottom, a boss rising from said disk bottom, a spiral pump in the housing having an axial shaft provided with a shoulder seating on the top of said boss, said boss extending above the tops of said intake openings, the worm of said spiral pump terminating at the top of said boss whereby the worm is elevated above said openings, a nipple carried by said disk bottom and projecting downwardly in alinement with said boss, the shaft of the pump extending into sand nipple, an electric motor carried by the support below the container, a sleeve secured to the shaft of the motor and projecting into said nipple, said sleeve and the shaft of the pump being detachably connected together in said nipple, and a stuffing box carried by said nipple and surrounding said sleeve.

1,942,453
SUPPORT FOR FLEXIBLE HOSE
Richard Ruemelin, Minneapolis, Minn.
Application January 31, 1929. Serial No. 336,580
4 Claims. (Cl 248—28)



4. A support for flexible hose including, a standard, a member adjustable along said standard, means for moving said member along said standard, a hollow supporting member secured to said support and adjustable therewith, a rod in telescoping relationship with said hollow supporting member, and means secured to the free end of said rod for supporting a flexible hose.

1,942,454
LOCK
Maurice Samburg, Brooklyn, N. Y., assignor to Lock Patents Holding Corporation, New York, N. Y., a corporation of New York
Application August 10, 1929. Serial No. 384,983
26 Claims. (Cl. 70—113)



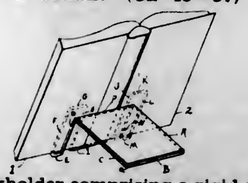
3. A lock comprising a casing, a bolt, and combination controlled mechanism in said casing for locking said bolt to said casing, said mechanism comprising a sleeve fixed within said casing, a shaft rotatably mounted within said sleeve, having means for releasably engaging a portion of said bolt, means for locking said shaft to said sleeve, said last mentioned means comprising a member rotatably mounted on said sleeve, means for locking said member to said sleeve, a member rotatably mounted on said first member, and means for locking said members against relative rotation.

1,942,455
BASE PLATE FOR DENTURES
Lake H. Sprinkle, Brooklyn, N. Y.
Application February 24, 1932. Serial No. 594,787
6 Claims. (Cl. 32—4)



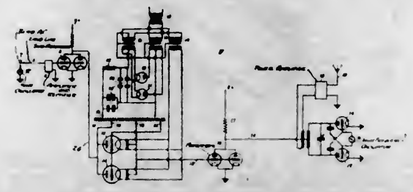
1. A base plate for dentures formed of a plate of substantially uniform thickness, said base plate having thereon one or more corrugations, which are disposed substantially normally to the surface of the base plate and having their convex sides located on the lingual and labial side of the base plate and their concave sides on the palate and gum engaging side of the base plate, and said convex sides being disposed to form a finishing line or joint with the material of the denture.

1,942,456
BOOKHOLDER
Nathan I. Stark, Philadelphia, Pa.
Application January 15, 1931. Serial No. 508,916
9 Claims. (Cl. 45—57)



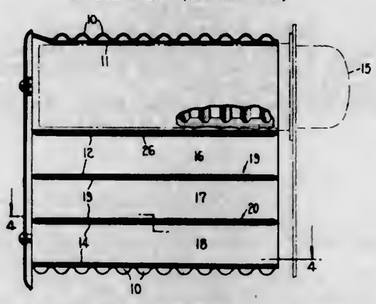
8. A bookholder comprising a rigid panel member having central and adjacent side members projecting at a suitable angle thereto, said central and adjacent side members lying normally in one plane and having certain portions which are distortable into separate parallel planes.

1,942,457
REGULATING SYSTEM
Llewelyn L. B. Summers, Whitestone, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 11, 1931. Serial No. 515,019
7 Claims. (Cl. 250—17)



1. In combination, an electron discharge device having its anode circuit coupled to the input circuit of another electron discharge device whereby when said first mentioned electron discharge device is blocked, said second mentioned electron discharge device draws current; an impedance, in series with said anode circuit and said input circuit, supplied with potential from a source of unidirectional electrical energy; and, an electron discharge device associated with said impedance for by-passing current flow therethrough when said input circuit draws current.

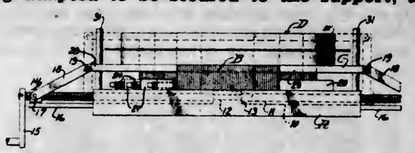
1,942,458
SECONDARY COOLING ELEMENT
Robert S. Taylor and Roy A. Heim, Evansville, Ind., assignors to Electrolux Servel Corporation, New York, N. Y., a corporation of Delaware
Application May 16, 1931. Serial No. 537,862
8 Claims. (Cl. 62—95)



5. In combination, a primary cooling element and a secondary cooling element comprising sheet metal plates welded together at their edges and spaced apart by corrugations in some of said plates to form a plurality of passages extending around and between said primary element and a plurality of freezing chambers below said primary element.

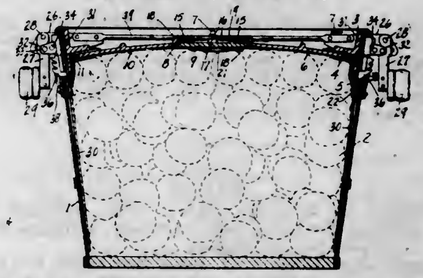
1,942,459
ASSEMBLING DEVICE
Edwin S. Timmons, Chicago, Ill.
Application July 30, 1932. Serial No. 626,856
3 Claims. (Cl. 29—84)

1. In a device for assembling parallel vanes upon a support including a plurality of alternately arranged spacers in the form of sheets and shims secured together, the shims being of less width than the spacers and located adjacent one edge thereof so as to provide spaces for the insertion of vanes adjacent the opposite edges of the spacers, the vanes while in such position being adapted to be secured to the support, and



means for removing the vanes simultaneously from between the spacers.

1,942,460
PACKING APPARATUS
Dwight W. Wadsworth and William A. Breckon, Fennville, Mich.
Application November 21, 1932
Serial No. 643,698
30 Claims. (Cl. 226—17)



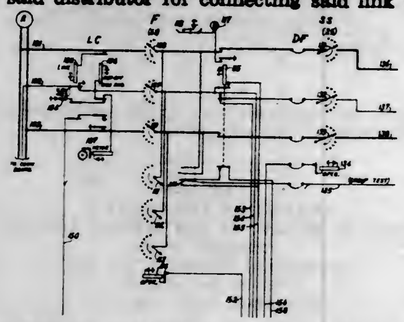
1. In a packing device, the combination of an annular frame having an inwardly projecting flange and opposed ears having segmental slots therein, said frame also having slots aligned with said ears, a concaved bottom floatingly mounted above said flange and having toothed receptacle handle keepers projecting through said slots in said frame, said bottom having lugs spaced therefrom and projecting below said flange for limiting the floating movement of the bottom relative to the frame, adjustable rests for said bottom, a facing diaphragm secured at its periphery to said bottom, a means acting to hold said diaphragm in crowned position or in its collapsed position on said bottom, removable segmental wall members having notched lugs positioned at the sides of said ears of said frame when the wall members are in assembled relation to the frame, handles pivotally mounted on said ears, and latches pivotally mounted on said handles and provided with pins adapted to engage said lugs on said wall members, said latch pins being disposed within said segmental slots in said ears whereby they are guided to wall lug engaging position.

1,942,461
[WITHDRAWN]

1,942,462
TELEPHONE SYSTEM
John Wicks, Oak Park, Ill., assignor to Automatic Electric Company, Limited, Liverpool, England
Application July 16, 1932. Serial No. 622,909
41 Claims. (Cl. 179—18)

1. In a telephone system, a group of lines, a group of trunk lines over which connections from said lines may be extended, a group of links interposed between said lines and said trunk lines, a distributor common to said link circuits, means

responsive to a calling condition on any one of said lines for operating said distributor to connect with an idle one of said link circuits, switching mechanism thereupon operable under the control of said distributor for connecting said link cir-



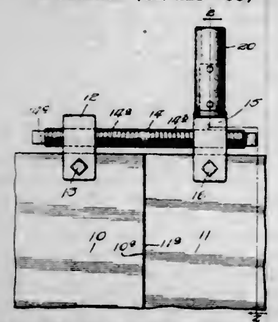
cuit with an idle one of said trunk lines, and means responsive thereto and also controlled from said distributor for thereafter associating said link circuit with the calling line and for connecting the calling line with the said idle trunk line by way of said link circuit.

1,942,463

MOKUM

Djalma D. Williams, Dallas, Tex., assignor to Chicago Bridge & Iron Company, Chicago, Ill., a corporation of Illinois

Application January 12, 1933. Serial No. 651,441
1 Claim. (Cl. 113—99)



A device of the character described, including; a dog with a threaded hole therein; means for fastening said dog to the edge of a plate with said threaded hole substantially parallel with said edge; a second dog with a reversely threaded hole therein, said dog being provided with a second threaded hole substantially at right angles to the first-mentioned threaded hole therein; means for similarly fastening said second dog to the edge of an adjacent plate; a bar with its ends oppositely threaded and adapted for engagement with the threaded holes in said dogs; and means for rotating said bar, whereby said dogs may be moved toward or away from each other.

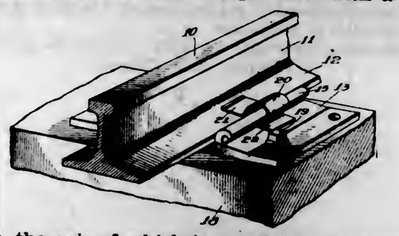
1,942,464

RAILWAY TIE PLATE

George T. Willard, Chicago, Ill.

Application May 22, 1931. Serial No. 539,201
11 Claims. (Cl. 238—287)

1. A railway tie plate provided with holes for receiving spikes for fastening the plate to the tie, a transversely extending shoulder at each side of its rail bearing surface, an outwardly directed flange formed on the upper part of said shoulder, said flange being provided with a re-



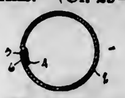
cess, the axis of which is parallel to the axes of the spike holes, and a rail retaining device in engagement with the under side of said flanged shoulder and extending through said recess.

1,942,465

METHOD OF MAKING SHAFTS FOR GOLF CLUBS AND THE LIKE

Leonard A. Young, Detroit, Mich.

Original application October 30, 1931, Serial No. 572,111. Divided and this application June 17, 1932. Serial No. 617,719
5 Claims. (Cl. 29—156)



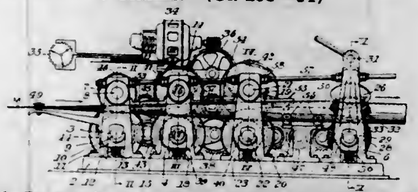
2. The method of making shafts for golf clubs consisting of forming a blank tapered toward each end with an inwardly offset seam flange on one edge, rolling into a tube with one edge overlapping the inwardly offset seam flange on the other edge, spirally twisting, and tempering.

1,942,466

TUBE FORMING MACHINE

James L. Adams, Jr., Youngstown, Ohio, assignor to The Youngstown Sheet & Tube Company, a corporation of Ohio

Application August 7, 1928. Serial No. 297,963
7 Claims. (Cl. 153—54)



1. In a tube forming machine, a forming pass effective primarily on the edges of the material passing therethrough, a succeeding pass effective for excessively deforming the central portion of said material beyond the desired plane of such portion in the final tube and bringing said previously formed edges into adjacent relationship, a final roll pass for reshaping the deformed central portion of said material, and material guiding and holding means intermediate said passes.

1,942,467

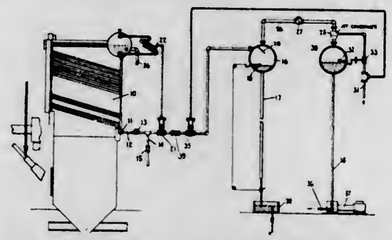
AUTOMATIC BOILER WATER DECONCENTRATION SYSTEM

Thomas B. Allardice, Mountain Lakes, and Thomas G. Coghlan, Elizabeth, N. J.

Application December 11, 1929
Serial No. 413,178
2 Claims. (Cl. 122—1)

1. The combination with a boiler having a blow-off connection and a feed water supply; of a

sealed separator container receiving the blow-off from said boiler and provided with a drain, a jet condenser communicating with said separator container to withdraw the vapor therefrom and operated by the feed water prior to its delivery to the boiler, means to regulate the blow-off



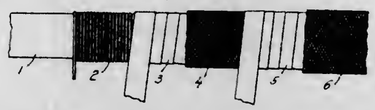
to the separator container in conformity with the water level of the boiler, and means beyond the first-named blow-off regulating means to regulate the blow-off to the separator container in conformity with the water supply to the jet condenser.

1,942,468

FLEXIBLE INSULATED PIPE

Paul B. Andrews, Rome, N. Y., assignor to Revere, Copper & Brass Incorporated, a corporation of Maryland

Application October 28, 1931. Serial No. 571,591
6 Claims. (Cl. 154—44)



1. In an insulated tubular member, the combination comprising a metal pipe, a layer of flexible insulating material over the pipe, and a helically wound metal tape forming a telescopic supporting and protecting covering over said layer of insulating material.

1,942,469

CHROMIUM PLATING

George E. Barber, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio

No Drawing. Application October 3, 1931
Serial No. 566,791
9 Claims. (Cl. 204—1)

1. In the process of electroplating with chromium, the improvement which comprises maintaining a ratio of chromic acid (CrO_3) to sulphuric acid (SO_4) in the bath less than 40 to 1, the bath containing trivalent chromium and hexavalent chromium in the proportion of not less than 1 to 10.

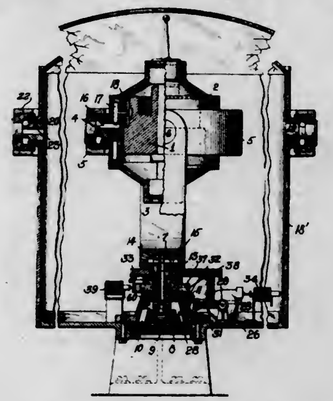
1,942,470

GYRO VERTICAL FOR AIRCRAFT

Preston R. Bassett, Rockville Center, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application January 13, 1931. Serial No. 508,391
11 Claims. (Cl. 244—29)

1. In a gyro vertical for moving craft, the combination with a gyroscope having a rotor with a normally vertical spinning axis and a gimbal suspension therefor for supporting the same with three degrees of freedom, of means for rotating the gimbals about the axis of spin of the rotor,



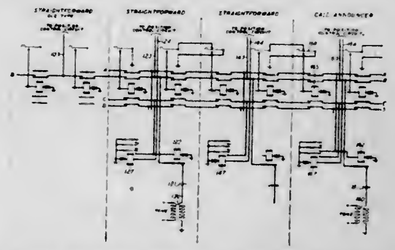
and means responsive to turning of the craft for rendering said rotating means inoperative.

1,942,471

OPERATOR'S POSITION EQUIPMENT

Russell B. Buchanan, Lynbrook, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 4, 1933. Serial No. 664,298
15 Claims. (Cl. 179—41)



1. In a telephone system, a plurality of operators' positions for serving trunks of a plurality of types incoming thereto, a control circuit for each position, certain of said control circuits serving only a single type of trunks, other control circuits serving a particular plurality of types of trunks and other control circuits serving all types of trunks, means for grouping said positions into divisions, and means to render ineffective those control circuits which do not serve all of the types of trunks included in the division.

1,942,472

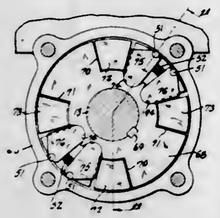
NONREVERSIBLE STEERING MECHANISM

Frank C. Craw, East Norwalk, Conn.

Application April 4, 1928. Serial No. 267,275
1 Claim. (Cl. 192—8)

In a device of the character described, a shaft, a plate secured to the shaft having two pairs of spaced openings therein and also having diametrically opposite pairs of curved recesses opening outwardly with each pair of recesses between a pair of openings, a driving member free on the shaft and having two pairs of rigid extensions projecting into said openings and of less width than the openings so as to have limited movement

therein but provide a positive driving connection between the driving member and the plate, a stationary casing, two pairs of pawls having rounded ends seated in said recesses and located with a pair of pawls between each pair of extensions, the pawls of each pair adapted to move



away from each other to engage the casing to prevent turning of the plate, resilient means between each pair of pawls tending to move them to holding position, and said rigid extensions adapted to engage the pawls on their outer sides to move them to inoperative position on initial turning movements of the driving member.

1,942,473
BILL FOLD OR RECEPTACLE
Prince A. Gardner, Jr., University City, Mo.
Application April 18, 1929. Serial No. 356,005
3 Claims. (Cl. 150—38)

1. A device of the character described comprising an outer wall, two wall members forming pockets opening inwardly toward each other and having their inner ends spaced apart and having their outer ends and lower edges attached to the outer ends and lower edge of said outer wall, means securing lower portions of said two wall members to said outer wall a considerable distance above the lower edge of said outer wall, a flexible panel extending across said space between said members and having its ends extending into said pockets, said panel cooperating with said outer wall and said two wall members to form an elongated pocket, and means supporting said panel in said pockets in a position in which the lower edge of said panel is spaced above the lower portions of said pockets.

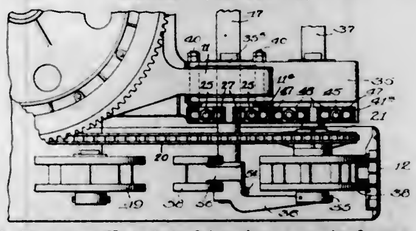
1,942,474
SLEEPING PORCH CURTAIN
Malcolm K. Graham, Graham, Tex.
Application March 25, 1932. Serial No. 601,152
3 Claims. (Cl. 156—10)

1. Sleeping-porch curtains comprising an upper curtain provided with a substantially heavy roller at the bottom of the curtain, and a lower curtain having a roller at the top of the curtain, the roller of the lower curtain adapted to



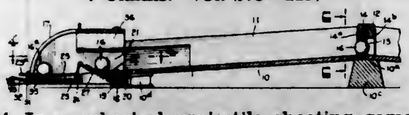
lie upon the roller of the upper curtain to hold the curtains in locked relation.

1,942,475
DETACHABLE EXTENSION FOR TRACTOR TRUCKS
Homer B. Haines, Lima, Ohio, assignor to The Ohio Power Shovel Company, Lima, Ohio, a corporation of Ohio
Application April 29, 1931. Serial No. 533,617
7 Claims. (Cl. 305—8)



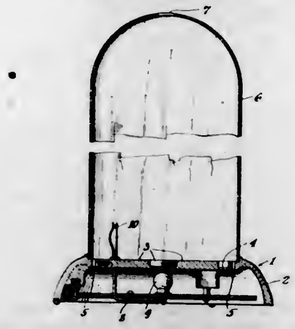
1. In an endless tread tractor, a main frame, a transverse end axle adapted to have tread supporting wheels detachably mounted thereon, a detachable extension attachment comprising an auxiliary transverse axle having tread supporting wheels thereon, extension brackets detachably and rigidly connected to the frames in supporting relation relative to said auxiliary axle, and end brackets extending between and connected to the outer ends of said end and auxiliary axles outside the tread supporting wheels of the latter, said end brackets having apertures to adapt the end brackets to be mounted on the end axle after said first mentioned supporting wheels have been removed.

1,942,476
MARBLE TARGET GAME
William W. Harris, Brockton, Mass.
Application August 5, 1931. Serial No. 555,203
7 Claims. (Cl. 273—119)



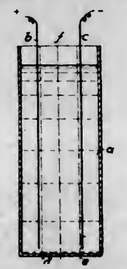
4. In a spherical projectile shooting game a vertically extending target having a vertically disposed recess therein serving as a hitting objective and means in association with said recess for fixedly retaining a spherical projectile when propelled into the said recess.

1,942,477
PORTABLE HOTHOUSE
Nelson L. Jacobus, Hempstead, N. Y., assignor to Nelson Lee Jacobus Inc., Hempstead Gardens, Long Island, N. Y., a corporation of New York
Application September 24, 1932
Serial No. 634,724
1 Claim. (Cl. 47—17)



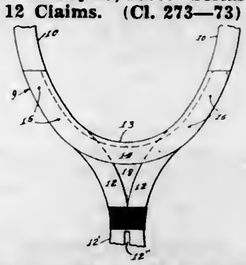
A portable hothouse including: a molded waterproof base constituting a lower housing provided with an integral top having one or more air ducts extending therethrough, said top constituting a supporting member having one or more water retaining pockets in its upper surface; a removable dome resting on the upper surface aforesaid and enclosing both the air ducts and water pockets; a heating unit supported within said housing below the top thereof; and a thermostat to control said heating unit carried by said top.

1,942,478
ELECTROOSMOTIC FRACTIONATION OF GLUE AND GELATIN
Alexander Jenny, Berlin, Germany, assignor to Siemens Elektro-Osmose, G. m. b. H., Siemensstadt, near Berlin, Germany, a corporation of Germany
Application October 2, 1929, Serial No. 396,660, and in Germany November 16, 1928
2 Claims. (Cl. 204—1)



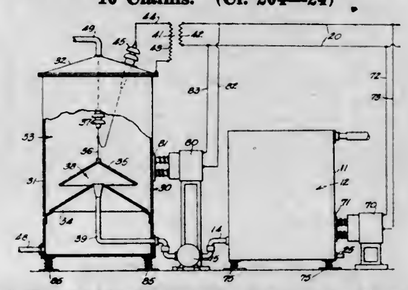
1. The process of electro-osmotic fractionation of solutions of the glue or gelatin in a four-cell electro-osmotic apparatus, which consists in interposing, between the electrodes of said apparatus and the said solution, diaphragms impermeable to gelatin, dividing said solution into two bodies by a diaphragm permeable to gelatin, and passing an electric current through the solution in such a manner as to cause portions of the gelatin to migrate from one of said bodies anodically to the other and from the last mentioned body cathodically to the one first mentioned.

1,942,479
TENNIS RACKET
Jacob L. Kleinman, New York, N. Y.
Application February 25, 1930. Serial No. 431,150
12 Claims. (Cl. 273—73)



1. A racket comprising a frame, a neck section, a handle, an arcuate member fastened to the lower portion of the frame at the neck section and comprising a concave central web overlying and fitting within the inner surface of the bottom portion of said frame, and side flanges overlying at least in part the front and rear faces of said bottom portion of the frame, said web being cut away at the ends thereof to leave the adjacent portions of said flanges free of direct connection with each other.

1,942,480
METHOD OF AND APPARATUS FOR AGGLOMERATING
Levering Lawrason, Los Angeles, Calif., assignor to Petroleum Rectifying Company of California, Los Angeles, Calif., a corporation of California
Application May 21, 1930. Serial No. 454,309
10 Claims. (Cl. 204—24)

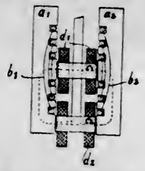


1. In combination: a pre-treating tank; means for delivering a fluid to be treated to said pre-treating tank; means for passing vibratory waves through said fluid in said pre-treating tank; a dehydrator including a pair of electrodes defining a treating space; means for conducting said fluid from said pre-treating tank into said treating space; and means for passing vibratory waves through said fluid when in said treating space.

1,942,481
VOLTAGE REGULATING TRANSFORMER
Oskar Löbl, Berlin-Hermsdorf, Germany
Application June 26, 1931, Serial No. 547,069, and in Germany July 1, 1930
6 Claims. (Cl. 171—119)

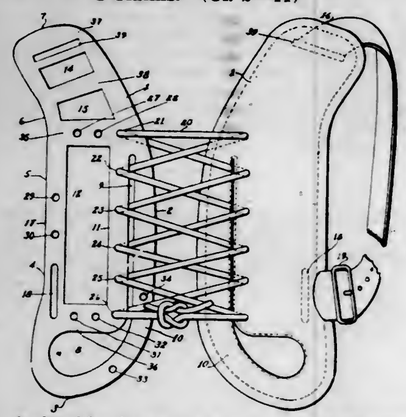
1. A voltage regulating transformer comprising two pairs of core members mounted slidably with respect to each other and adapted to provide an approximately closed single magnetic circuit for the passage of the flux of the magnetic lines of force therethrough, primary and secondary wind-

ings mounted respectively on the core members in each pair, and having their convolutions dis-



posed in parallel relation to the paths of movement of the sliding core members.

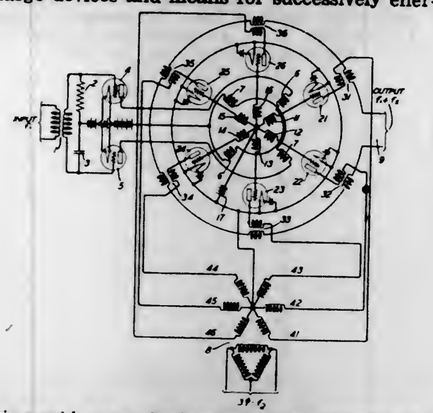
1,942,482
SHOULDER BRACE
William E. Mariar, Phoenix, Ariz.
Application April 15, 1933. Serial No. 666,313
4 Claims. (Cl. 2—44)



1. A shoulder brace comprising a frame member having a scapula bar curved to conform to the contour of the scapula of the wearer, an armside bar, a lace bar intermediate said scapula bar and said armside bar and attached at the bottom to the armside bar by a cross-bar, said scapula bar being attached to the frame at its upper and lower ends only.

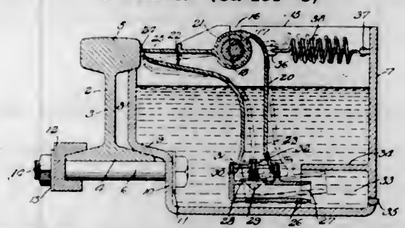
1,942,483
PHASE SHIFTING DEVICE
Warren A. Marrison, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 11, 1932. Serial No. 628,379
6 Claims. (Cl. 172—281)

5. A device for continuously shifting the phase of an alternating current which comprises an input circuit for receiving the input current, a resistance in series with a condenser connected thereto for securing voltages in phase quadrature from said input circuit, two vacuum tubes, the input of one of said vacuum tubes being connected in parallel with said resistance and the input of the other of said tubes being connected in parallel with said condenser, a set of coils connected to the output of said vacuum tube, the centers of the magnetic field of said coils being coincident and the axes of said sets of coils being at right angles to each other, whereby a rotating magnetic field is produced by the quadrature current supplied to these coils from said vacuum tubes, a plurality of pick-up coils located in said rotating magnetic field for securing polyphase currents therefrom, a plurality of space discharge devices connected to said pick-up coils, an output circuit connected to said space discharge devices and means for successively ener-



gizing said space discharge devices, whereby the consecutive phases of said polyphase currents are successively transmitted to the output circuit.

1,942,484
LUBRICATOR
Lawrence A. Merk, Pittsburgh, Pa., assignor to Railway Maintenance Corporation, Aspinwall, Pa., a corporation of Pennsylvania
Application July 27, 1929. Serial No. 381,460
9 Claims. (Cl. 184—3)



1. A lubricator, comprising a lubricant reservoir, a lubricant applicator pivoted for rotation about an axis generally parallel to a rail to be lubricated and having a discharge portion in proximity to the rail, the applicator having an intake portion movable in relation to the lubricant reservoir to receive lubricant therefrom, and means adapted to be operated to cause pivotal movement of the applicator to discharge lubricant to the rail.

1,942,485
PURIFICATION OF GASES
Floyd J. Metzger, New York, N. Y., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application February 27, 1932
Serial No. 595,659
5 Claims. (Cl. 23—150)

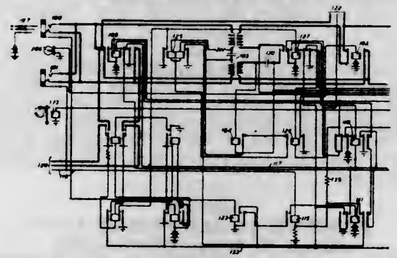
1. The method of purifying carbon dioxide and similar gases which comprises compressing the gas in stages and removing impurities, at least a portion of which result from the compression, by treating it after the final compression stage at the pressure attained in the final stage and at a temperature above the critical temperature of about 88° F. and upward to 350° F. with a solution of a permanganate of an alkali metal to remove odor and taste from the gas.

1,942,486
SHOE AND RETAINING MEANS THEREFOR
Charles Miller, Long Island City, N. Y.
Application April 25, 1932. Serial No. 607,476
4 Claims. (Cl. 36—50)



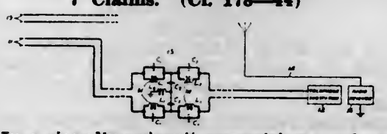
1. A shoe having separaole straps, each strap fixed at both ends to the shoe, said straps having adjacent separable forward portions extending in adjacent parallel relation from the toe of the shoe rearwardly and upwardly toward the instep and at the instep extending in opposite directions substantially at right angles to said forward portions, and means for releasably fastening together the forward portions of said straps for the full length thereof.

1,942,487
TELEPHONE SYSTEM
William C. Oakes, Arlington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 1, 1932. Serial No. 620,418
8 Claims. (Cl. 179—43)



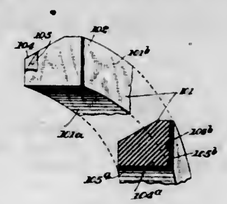
1. In a telephone system, a two-way trunk, a local trunk, a toll trunk, said last mentioned two trunks being associated with one end of said two-way trunk, means for normally answering calls incoming to said end of the two-way trunk over the local trunk, means for answering incoming calls over the toll trunk, and means for transferring incoming calls answered over the local trunk for answering over the toll trunk operative on the seizure of the toll trunk and release of the local trunk.

1,942,488
ELECTRIC WAVE FILTER
Henry G. Och, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 16, 1931
Serial No. 563,013
7 Claims. (Cl. 178—44)



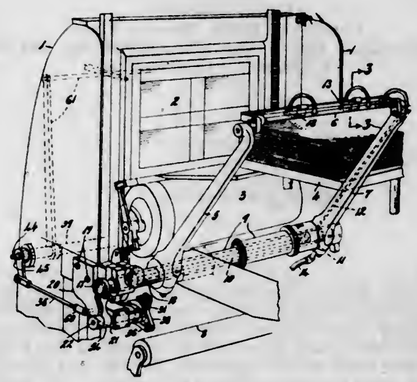
1. In a signaling circuit comprising conductors forming a loop circuit for the transmission of signal currents, said loop circuit being subject to undesired longitudinal currents from some extraneous source, means for attenuating said longitudinal currents in a certain frequency range while at the same time allowing the free transmission over said loop circuit of a second range of frequencies including the signal currents, the limits of said second range of frequencies being independent of the limits of said first mentioned range.

1,942,489
GASKET
George H. Pfefferle, Bradford, Pa., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa., a corporation of Pennsylvania
Application August 23, 1932. Serial No. 630,013
3 Claims. (Cl. 288—1)



1. As an article of manufacture, a rubber gasket of split ring form, a film of adhesive applied to at least one of the abutting ends to secure the ends together and produce a leak-proof joint, and a temporary protective covering for said film.

1,942,490
INK DOUBLE-ROLLING CONTROL
Hugh T. Quigley, Philadelphia, Pa.
Application September 23, 1932
Serial No. 634,490
9 Claims. (Cl. 271—56)

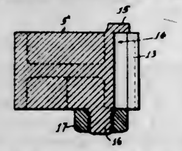


1. The combination with the suction feeder mechanism and an oscillatory shaft of printing presses of a control-attachment comprising automatically-activated cam and ratchet mechanism to reciprocate the feeder air valve, and means operatively-coordinating the cam and ratchet means to an oscillatory shaft aforesaid with capacity for idling relative thereto when desired, and a rockable coupler whereby the feeder air valve is connected to or disconnected from the control-attachment.

1,942,491
PAINT AND PIGMENT THEREFOR
Wendell G. Randolph, New York, N. Y., assignor to The Egyptian Lacquer Manufacturing Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 23, 1931 Serial No. 510,769
4 Claims. (Cl. 134—39)

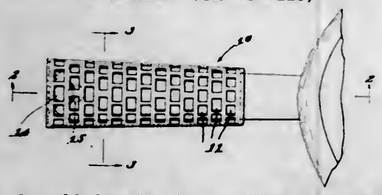
1. In the production of composite pigment, liquid coating compositions free from tendency to stratify, the process which comprises mixing at least two separate, finely ground, differently colored pigments in the presence of a small amount of a cellulose-type lacquer sufficient to bind the particles of said separate pigments together, drying the mixture, grinding without substantial separation of the differently colored pigment particles and dispersing into a liquid paint vehicle in which the dried residues of said lacquer are insoluble.

1,942,492
TONGS
James P. Ratigan, Los Angeles, Calif.
Application July 20, 1932. Serial No. 623,513
1 Claim. (Cl. 81—99)



The mounting for a bit in a tong, including a tong having a bit slot, a flange closing one end of the bit slot, a stud cast integral with said tong adjacent said slot and screw-threaded, a bit mounted in the slot, and a nut screw-threaded upon the stud for effectively sealing the bit in the slot.

1,942,493
COLD HANDLE
George C. Reith, Revere, Mass.
Application March 28, 1932. Serial No. 601,695
3 Claims. (Cl. 16—116)



1. A cold handle for cooking utensils said utensils being provided with a conventional handle with an opening in its rearward portion, comprising a perforated casing adapted to engage with the handle of a cooking utensil at the front of said cold handle adjacent its edge, a reversely bent hook member adapted to engage in the opening of the cooking utensil at its rear portion and maintain said rear portion in a spaced relationship with said cold handle.

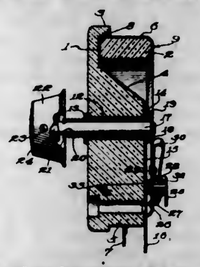
1,942,494
DOWEL BAR CAP AND STOP
Edward A. Robertson, La Grange, Ill.
Application July 3, 1931. Serial No. 548,621
5 Claims. (Cl. 94—8)

1. A dowel bar device comprising a hollow cap closed at one end, a dowel bar projecting into an open end of the cap, and a concave dowel bar stop struck inwardly from the cap, said stop formed with the major portion of the margin



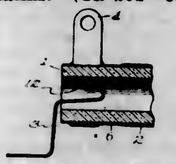
thereof integral with the cap leaving a minor portion of the margin of the stop to serve as a stop edge.

1,942,495
RHEOSTAT POTENTIOMETER
David T. Siegel, Chicago, Ill.
Application March 4, 1932. Serial No. 596,787
1 Claim. (Cl. 201—56)



The process of making a resistance device which consists in tightly winding a resistance wire upon a suitable ceramic core, providing a ceramic base grooved to receive the wound core, coating the wound core and the groove of the base with a vitreous enamel flux, seating the wound core in the groove of the base, baking the assembly, whereby the wound core and base are fused together and the resistance wire is entirely and immovably fused to the core, and removing the coating from a portion of the surface of the wound core to provide a contacting surface on the resistance wire.

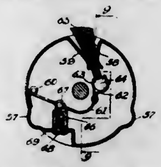
1,942,496
ELECTRICAL RESISTANCE UNIT
David T. Siegel, Chicago, Ill.
Application February 6, 1933. Serial No. 655,348
2 Claims. (Cl. 201—63)



1. An electrical resistance element comprising a core upon which is wound a resistance wire, spaced terminal elements clamped around said resistance wire and core, said core having hollow ends, and supporting brackets in the form of metallic strips having ends bent into V-shape with integral projections extending beyond the core to serve as legs, said brackets fitting the hollow ends of the core and by expansion securing the brackets in place.

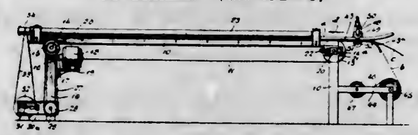
1,942,497
SUCTION CLEANER AGITATOR
Donald G. Smellie, Canton, Ohio, assignor to The Hoover Company, a corporation of Ohio
Application July 19, 1929. Serial No. 379,412
8 Claims. (Cl. 15—183)

4. In a rotary agitator for a hollow suction cleaner, a rotary body, a shaft rotatably supporting said body and extended therethrough, an elongated inwardly extending brush seat in said body, and an elongated brush having a rigid



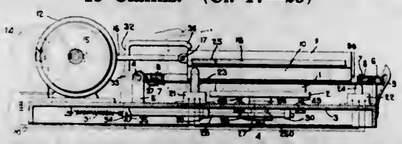
back positioned in said brush seat and extended inwardly to the side of said shaft.

1,942,498
MACHINE FOR MANUFACTURING HOSE
Charles C. Spadone, Rockville Center, N. Y., assignor to Spadone Machine Company, Inc., New York, N. Y., a corporation of New York
Application January 2, 1930. Serial No. 418,002
18 Claims. (Cl. 154—6)



1. In a machine for manufacturing hose, means for longitudinally feeding a foundation tube and an unapplied covering therefor, applying means for moving said tube relatively to the feeding movement to apply said covering thereto, and means effective within the operative limits of said applying means in a direction transverse to the feeding movement and substantially parallel to the plane thereof whereby said tube is maintained in operative engagement with said applying means during the application of the covering.

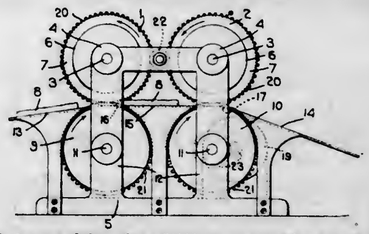
1,942,499
MACHINE FOR CUBING MEAT
Joseph P. Spang, Quincy, Mass.
Application December 1, 1930. Serial No. 499,230
15 Claims. (Cl. 17—25)



9. In a machine of the class described, the combination with a rotary meat-supporting table, of a pivoted clamping member for clamping a slice of meat to said table, a gang of knives to cut slits in the meat, said knives being movable towards the meat relative to the clamping member, a pivoted lever actuated by the movement of the clamping member into raised position, and means to turn the meat-supporting table by the movement of said lever.

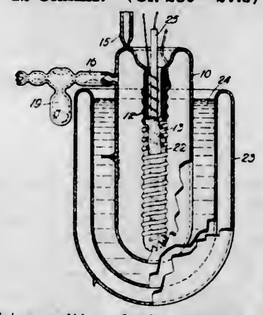
13. In a machine for cubing meat, the combination with a meat-supporting table, of a pivoted clamping member for clamping a slice of meat to the table, a gang of knives to cut slits in the meat, a motor device for reciprocating the knives, said knives being capable of movement toward the meat relative to the clamping member, means to render said motor device operative by the movement of the clamping member into operative clamping position, and means to render the motor inoperative when the slits have been cut to a predetermined depth.

1,942,500
MACHINE FOR SLITTING MEAT, VEGETABLES, AND THE LIKE
Joseph P. Spang, Quincy, Mass.
Application January 21, 1932. Serial No. 587,900
2 Claims. (Cl. 17—26)



1. In a machine for slitting meat, the combination with a frame having a receiving platform, a delivery platform, and an intermediate platform situated between the receiving platform and the delivery platform and spaced from both, of a feed roll between the receiving platform and the intermediate platform, a second feed roll between the intermediate platform and the delivery platform, a rotary knife element rotatively mounted in the frame above each feed roll, each knife element having a plurality of cutting blades extending spirally about its periphery, the blades of each element being spaced slightly from the corresponding feed roll, means gearing the feed rolls and knife elements together, and means for rotating said rolls and knife elements.

1,942,501
LIGHT-SENSITIVE TUBE
George R. Stilwell, Bayonne, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 6, 1927. Serial No. 181,552
12 Claims. (Cl. 250—27.5)
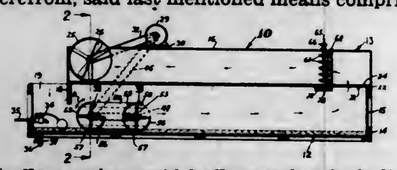


1. A light-sensitive device comprising an enclosing vessel having a tubular member therein, a wire helix surrounding said member, means conductively connecting adjacent turns of said helix, and a light-sensitive material on the inner side of the outer wall of said vessel.

1,942,502
HUMIDIFIER
William H. Werhan, Lawrence L. Werhan, and Frank S. Usrey, Pasadena, Calif.
Application June 11, 1932. Serial No. 616,676
4 Claims. (Cl. 261—92)

1. In a humidifier, a closed tank, a conduit communicating with the interior of said tank, an entranceway in said tank, an exit passageway in said conduit, means to draw air through said

entranceway into said tank and thence into said conduit and out said exit passageway, means to mix water in the tank with the air passing through said tank, and means to reduce the amount of moisture expelled from said exit conduit without materially reducing the volume of air expelled therefrom, said last mentioned means comprising



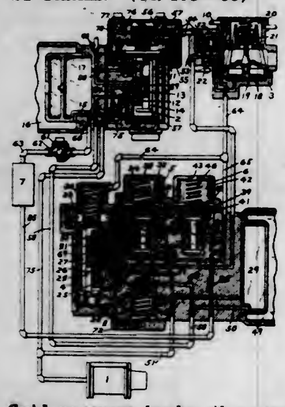
a baffle member, said baffle member including a pair of side bars, a plurality of plates, each of said plates having bent ends, said ends having apertures to receive said rods said plates forming deflecting members, an operating member connecting said plates and means to hold said operating member in adjustable position.

1,942,503

QUICK RELEASE DEVICE

Uncas A. Whitaker, Canton, Ohio, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application December 10, 1928, Serial No. 324,889
Renewed February 2, 1933
24 Claims. (Cl. 303—66)



1. In a fluid pressure brake, the combination with a brake pipe, of two reservoirs normally charged with fluid under pressure from said brake pipe, a valve device operative upon a reduction in brake pipe pressure in effecting an application of the brakes for venting fluid under pressure from one of said reservoirs to atmosphere to reduce the pressure of fluid in said reservoir, and means operative upon an increase in brake pipe pressure in releasing the brakes, subject to the reduced pressure in said reservoir and brake pipe pressure for controlling the supply of fluid under pressure from the other of said reservoirs to said brake pipe.

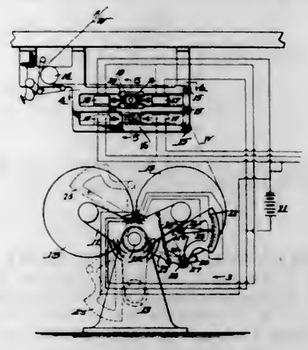
1,942,504

AUTOMATIC COMPENSATOR FOR PAPER ROLLS

Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia

Application July 9, 1929. Serial No. 376,889
Renewed July 29, 1932
14 Claims. (Cl. 242—75)

9. The combination with a printing press and means for supporting a running web roll, of means for changing the length of the web path between the two, and means controlled by the



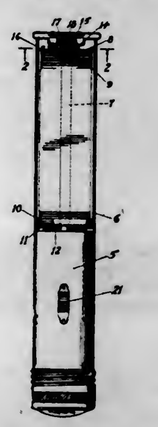
circumference of the web roll for operating said means.

1,942,505

WINDING MEANS FOR SPRING MOTORS

William G. Beck, New York, N. Y.

Application May 28, 1931. Serial No. 540,616
3 Claims. (Cl. 185—39)



1. In combination, a closed casing, a shaft, a coiled motor spring, and a bearing for said shaft enclosed within said casing, the end of said shaft having a tapped recess, the casing having a hole registering with said recess, a cup-shaped winding element rotatably telescoping over the end of said casing, and a threaded stud in said cup-shaped element passing through said hole and threaded into said recess.

1,942,506

THERMOMETER

Harry D. Bolton, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application February 29, 1932. Serial No. 595,710
4 Claims. (Cl. 73—52)

3. In a thermometer, a support provided with a groove covered with a protective covering, a thermometer tube mounted in said groove, a plurality of strips engaging the front face of the thermometer tube at spaced intervals along said groove, the ends of each of said strips being pro-



vided with burrs to grip the side walls of said groove.

1,942,507

PROCESS FOR THE PREPARATION OF SOLS FOR CLARIFYING LIQUIDS

Curtis Quincy McWilliams Campbell, Shamokin, Pa.

Application May 6, 1930. Serial No. 450,303
11 Claims. (Cl. 252—6)

1. The process for the preparation of sols for the concentration of substances in suspension or in emulsion in water, which consists in mixing amylaceous materials with water, agitating to prevent their separation and raising the temperature to substantially fifty degrees centigrade for a sufficient time to expand the cells of the amylaceous materials, and combining with an alkaline reagent.

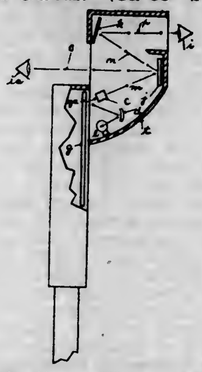
9. A coagulative sol for the concentration of substances in suspension or in emulsion in water, which comprises a combination of an aqueous suspension containing approximately 1 per cent starch with cells expanded but unruptured by heating and a solution of sodium hydroxide.

1,942,508

MEANS OF PROJECTING GRADUATIONS AND CHARACTERS OF MEASURING DEVICES

Mary L. Clark, Newark, N. J.

Application February 6, 1930. Serial No. 426,338
2 Claims. (Cl. 88—24)



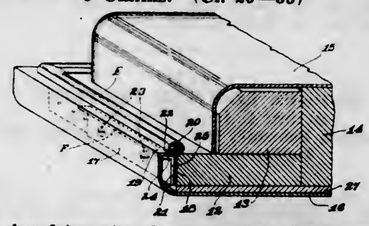
1. In combination with a measuring device having indicating graduations, an electric illuminating bulb, one or more mirrors adapted to reflect the rays of light from the filament of illuminated electric bulb onto indicating graduations of measuring device marked on the first surface of an opaque material, a projecting lens located at a focused point between the indicating graduations of the measuring device and the first surface of an opaque screen adapted to receive the projected illuminated indicating graduations, which first surface of opaque screen is within the observation of the operator of the measuring device substantially as shown and described.

1,942,509

REFRIGERATOR DOOR COVERING ATTACHMENT

Walter F. Davis and Carl E. Norelius, St. Paul, Minn., assignors to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota

Application December 6, 1930. Serial No. 500,602
9 Claims. (Cl. 20—35)



1. A refrigerator door covering attachment including, a clip member having an outwardly projecting flange, a door covering having an inwardly projecting flange under which said clip flange is adapted to engage, and a flange extending virtually at right angles to said clip flange adapted to provide an attaching means through which screws may extend to anchor said clip to the refrigerator door frame.

1,942,510

INDEX DEVICE

Stanley B. Freiberg, Cincinnati, Ohio, assignor to The International Visible Systems Corporation, Cincinnati, Ohio, a corporation of Ohio

Application December 17, 1930
Serial No. 502,963
10 Claims. (Cl. 16—128)



1. A hinge comprising a pin, a bifurcated lug receiving the pin between the arms of the lug, a member extending between the arms of the lug, and a clip extending about the arms of the lug and the said member for retaining said member and arms in relatively fixed positions.

1,942,511

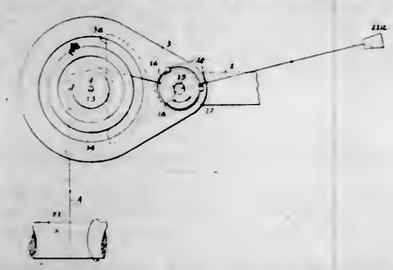
YARN CONTROL MEANS

Frederick Klein, College Point, N. Y., assignor to Sipp-Eastwood Corporation, Paterson, N. J., a corporation of New Jersey

Application March 27, 1931. Serial No. 525,800
14 Claims. (Cl. 242—155)

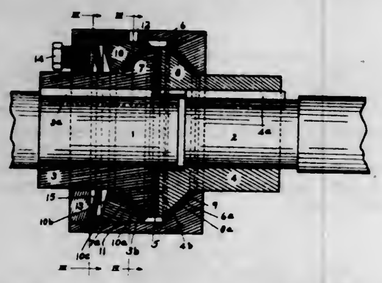
1. In combination, means to draw yarn lengthwise, and mechanism to exert tension on the yarn while so drawn comprising a revoluble pulley around which the yarn under draft is bent and which it tractively engages, means to support and frictionally resist rotation of the pulley, and means, anterior of the pulley, imposing on the yarn frictional resistance to the advance thereof

substantially sufficient only to cause the yarn to snub the pulley, said pulley forming a ten-



sion device by which the yarn is last tensioned anterior to the first-named means.

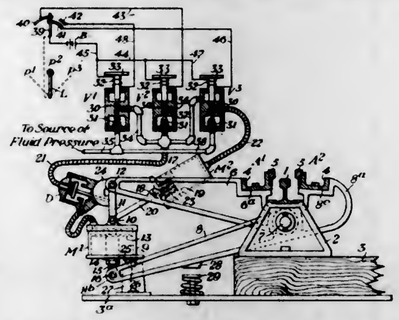
1,942,512
TORQUE LIMITING COUPLING
Arthur L. Lee, Gibsonia, Pa.
Application February 16, 1933. Serial No. 657,086
4 Claims. (Cl. 64—106)



1. In a torque-limiting coupling for the interconnection of driving and driven shafts, the combination of friction members on and rotatable with the driving and driven shafts respectively, a resilient disk form annulus of uniform contour operatively mounted to transmit force for holding said friction members in frictional contact, a pressure-transmitting member having a common mounting for rotation with the resilient annulus and presenting to the resilient annulus an inclined face providing space for bodily distortion of the resilient annulus, and pressure means arranged to bear against said resilient annulus to distort the annulus and thereby cause it to exert upon the said friction members a force tending to hold them in frictional contact.

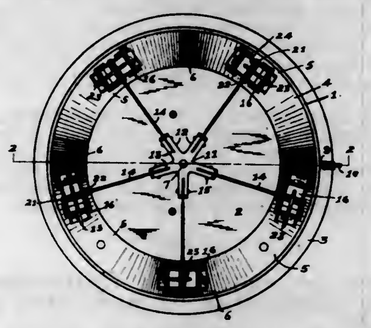
1,942,513
RAILWAY BRAKING APPARATUS
John W. Livingston, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application May 19, 1933. Serial No. 671,866
17 Claims. (Cl. 188—62)

1. Railway braking apparatus comprising two braking bars located on opposite sides of a track rail and biased to positions in which they will clear the wide driving wheels of locomotives, means including a first motor for moving said braking bars from the positions to which they are biased to positions in which they will just clear car wheels of ordinary width, and means including a second motor for moving said braking bars from the positions in which they will just clear car wheels of ordinary width to braking positions in which they will engage the wheels



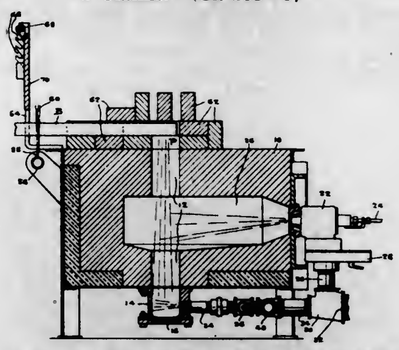
of a car traversing said track rail and retard the speed of the car.

1,942,514
MECHANICAL TOY
Frank J. Mayer, Pittsburgh, Pa.
Application July 26, 1932. Serial No. 624,731
1 Claim. (Cl. 272—31)



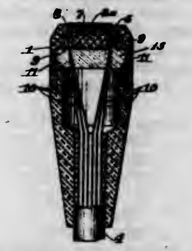
In combination, a mechanical toy of the character described, comprising a base, an annular undulating track fixedly mounted on the top of said base, a driving mechanism carried in said base and including a vertically disposed revoluble shaft, a spider fixed to the upper end of said shaft and having a plurality of radially extending arms, a plurality of carriages mounted to travel around on said track, the inner side wall of each of said carriages being provided with a vertically disposed oblong slot, the outer side wall of each of said carriages provided with an aperture, connecting rods having a pivotal connection with the outer ends of respective spider arms, the outer end portions of said connecting rods extending transversely through respective carriages and projecting through said slots and said apertures in the side walls of said carriages, means carried by said connecting rods for maintaining the carriages in position at the outer ends of the connecting rods, a figurative member mounted in each of said carriages and provided with a bearing element at the lower end thereof, said bearing elements being disposed between the sidewalls of respective carriages and pivotally engaged by the outer end portions of said connecting rods to allow the alternate gravity movements of said figurative members against the end walls of said carriages during the travel of the latter around on said undulating track.

1,942,515
FORGING FURNACE
Arnold J. Nordenson, Minneapolis, Minn., assignor to Mahr Manufacturing Company, Minneapolis, Minn., a corporation
Application May 11, 1932. Serial No. 610,597
2 Claims. (Cl. 263—9)



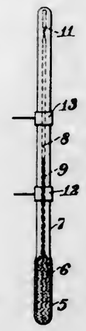
1. A forging furnace having a horizontal passage extending from the exterior into the interior thereof, a burner for said passage, a vertical passage intersecting said horizontal passage, means for supporting the article to be heated at the upper end of said vertical passage, an extension at the bottom of said vertical passage, a movable closure for said extension, and a pipe leading into said extension for supplying compressed air to said vertical passage whereby the hottest part of the flame coming from said burner is carried up to a place adjacent said supported article.

1,942,516
THERMOMETER FOR MEASURING TEMPERATURE OF THE SKIN
Bradford Noyes, Jr., Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application May 14, 1930. Serial No. 452,262
3 Claims. (Cl. 136—4)



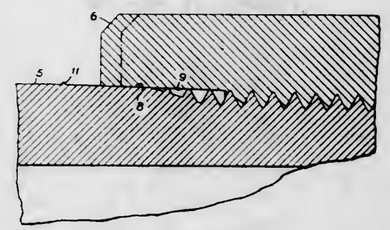
1. In an instrument for measuring the temperature of the skin, the combination of a contact member of heat-insulating material, having a flat contact surface and a depression in said contact surface, a block of felt filling the depression, a plurality of thermo-couples having their hot junctions disposed in central alignment upon the felt, the contact member being provided with fine bores on opposite sides of the block of felt and with larger bores inwardly of the fine bores and with a space extending across all said larger bores at the inner ends thereof, said space being inwardly limited by shoulders, the wires of the thermo-couples extending through said fine bores into the larger bores and through said space, and a solid piece of insulating material filling said larger bores and said space.

1,942,517
THERMOMETER
Bradford Noyes, Jr., Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application January 10, 1933. Serial No. 650,967
3 Claims. (Cl. 73—52)



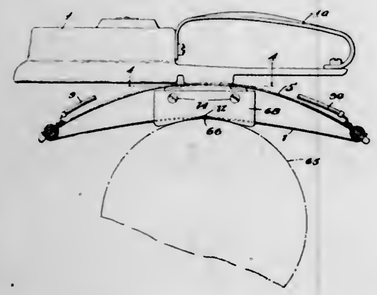
1. In a thermometer, a glass thermometer tube provided with a bore closed at its upper end, a bulb communicating with said bore, a heavy expansible liquid in said bulb, and means within the thermometer bore, at a point near the closed end of said bore above the normal limit of exposure of the liquid, for retarding the movement of the liquid and thereby preventing the transmission of fracturing shocks to the glass on the inversion of the tube.

1,942,518
PIPE JOINT
Edward J. Protin, Charlerol, Pa., assignor, by mesne assignments, to Pittsburgh Steel Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 22, 1933. Serial No. 677,086
1 Claim. (Cl. 285—146)



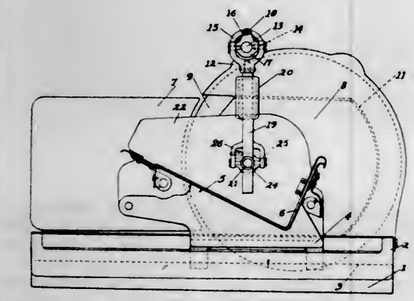
Drill column structure or the like, comprising pipes having their adjacent ends tapered and threaded, the tapering surfaces being continued beyond the inner ends of the threads, and collars threaded intermediate their ends for engagement with the threads of the pipes and having their end portions extended beyond the said threads, and having an unthreaded zone whose surface is in longitudinal alinement with the roots of the collar threads and machined for watertight fit with the said continued tapering surfaces of the pipe ends, the pipe threads being continued beyond the collar threads and clearance being provided between the adjacent extremities of the pipes to provide for creeping of the pipes toward one another.

1,942,519
PYROMETER
Horace Nelson Packard, Ossining, N. Y., assignor to The Cambridge Instrument Company, Inc., Ossining, N. Y., a corporation of New York
Application May 29, 1930. Serial No. 456,832
2 Claims. (Cl. 73—32)



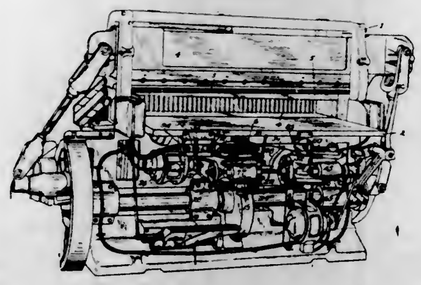
1. A pyrometer comprising a flexible thermo-couple strip supported at two points and adapted to contact with a convex surface of an object the temperature of which is to be measured at an intermediate point in response to pressure exerted at the two points toward the object, and a V-shaped guide mounted on each side edge of the thermo-couple strip for centering the thermo-couple strip on the object and ensuring a firm contact pressure between the thermo-couple strip and the object.

1,942,520
MEAT SLICER
Elmer G. Streckfuss, Cincinnati, Ohio, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a corporation of Ohio
Application September 13, 1929
Serial No. 394,656
15 Claims. (Cl. 146—102)



2. A meat slicer having a circular knife rotatable on a fixed axis, a meat carriage carrying a tray movable substantially in a plane parallel to said knife, and means for guiding meat on said tray so as to cut a diagonal slice from said meat, and a pusher plate having a mounting permitting the movement of said plate freely in co-operation with said meat guiding means, said mounting for said pusher plate being independent of said tray, and being supported on said machine frame.

1,942,521
PAPER CUTTER
William L. Valiquette, Dayton, Ohio, assignor to Harris - Seybold - Potter Company, Dayton, Ohio, a corporation of Delaware
Application July 26, 1930. Serial No. 470,924
17 Claims. (Cl. 164—59)



1. A paper cutter having in combination with a back gauge, power driven mechanism for intermittently advancing said back gauge in step by step movement a predetermined amount, independently power driven rapid traversing mechanism for moving said back gauge, means for rendering either mechanism operative at any stage of stock advance and means for inhibiting each of said means when the other is set for operation, both of said means having safety blocking devices to limit the movement of said back gauge at extreme limits of its movement.

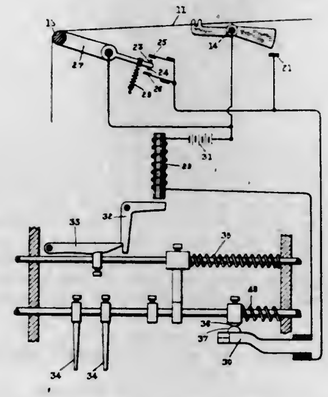
1,942,522
ELECTROLYTIC EXTRACTION OF PURE ALUMINUM
Julius Weber and Alfred von Zeerleder, Neuhausen, and William Dupré Treadwell, Zurich, Switzerland
No Drawing. Application November 11, 1927, Serial No. 232,704, and in Germany November 22, 1926
3 Claims. (Cl. 204—20)

1. In an electrolytic process of producing refined aluminum from impure material, wherein the material to be refined is used as solid anode, and cathodes also in solid form, together with an electrolyte bath composed of halides of aluminum and of other metals, and having a lower point of fusion than that of the electrodes, the step comprising supplying to the electrolyte, besides the aluminum compounds, small quantities of heavy metals more electropositive than aluminum.

1,942,523
METHOD AND COMPOSITION FOR DELUSTERING FABRIC
Charles R. Weiss and Winton R. Bennett, Indianapolis, Ind.
No Drawing. Application September 19, 1932
Serial No. 633,849
2 Claims. (Cl. 26—29)

2. A delustering agent for removing shine from fabrics, said agent comprising ammonium acetate dissolved in alcohol.

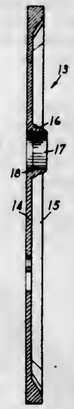
1,942,524
FEEDING OF TEXTILE MATERIALS
Sidney Arthur Welch, Albert Fairholme Guyler, John Thomas Ashby, and William Henry Boaler, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application April 28, 1930, Serial No. 447,940, and in Great Britain May 21, 1929
10 Claims. (Cl. 66—163)



8. Warp knitting machines provided with apparatus for uniformly feeding a plurality of threads, said apparatus comprising a belt drive and electrical stop-motion circuit adapted to operate belt shifting means in connection with said drive, a loaded tension bar associated with the threads and movable against this loading under variation of tension in threads as a whole to close the stop-motion circuit, a contact bar, a reed, and in connection with each thread, a pivoted member guided by a dent in the said reed, each pivoted member being held out of contact with the contact bar by engagement with its associated threads, and adapted to move into contact with said bar on slackening of the thread to close the electrical stop-motion circuit in connection with the feeding mechanism, and a cut-out switch in the stop-motion circuit adapted to be opened by the belt shifting means and at the commencement of the feeding operation whereby stoppage of the feeding mechanism owing to any variation in tension incidental to starting-up is prevented.

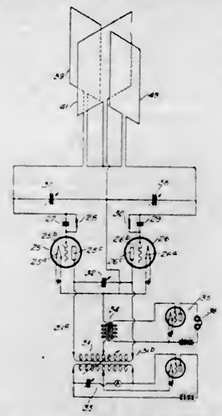
1,942,525
REENFORCED MOLDED ARTICLE OF BUILDERS' HARDWARE
John H. Weller, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn.
Application January 7, 1930. Serial No. 419,052
1 Claim. (Cl. 70—16)

An article of builders' hardware made of a moldable material, said article having a body portion and a boss extending therefrom, said boss being provided with an opening which extends through the boss and into the body portion, said opening being of two diameters, the smaller end of which is in the body portion, and a hollow metallic sleeve molded in the boss to form an inner lining for the opening therein, the opening in said sleeve being of the same size as, and in alignment with, the smaller part of the opening in the article, whereby the opening in the sleeve and the smaller end of the opening



in the article form a continuous opening of constant size.

1,942,526
RADIO NAVIGATING SYSTEM
John A. Willoughby, Washington, D. C.
Original application January 8, 1929, Serial No. 331,003. Divided and this application July 16, 1932. Serial No. 622,938
6 Claims. (Cl. 250—11)



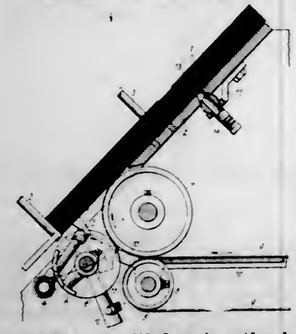
1. In a radio navigating system, a system of two co-planar coil antennæ connected in series, an independent coil antenna substantially at right angles to the plane of said first mentioned coil antennæ, two electron tubes each having cathode, anode and grid, balanced input and output circuits therefor, one terminal of each of said co-planar coil antennæ being connected to the cathode of one of said electron tubes respectively, said independent coil antenna being connected to the common connection of said two co-planar coil antennæ and to the grids of said two tubes connected together, a tuning condenser connected between the grid and cathode of each tube, the anodes of said tubes being connected to the respective terminals of one winding of a transformer, the mid-tap of said winding being connected through the primary winding of an output transformer to the cathodes of said tubes, a signal responsive device connected to the secondary of said output transformer, the other

winding of said first mentioned transformer being connected to a low frequency generator whereby the variations in signal intensity in said signal responsive device indicate the orientation of said coil antenna system with reference to the direction of an incoming radio wave.

1,942,527
METHOD AND APPARATUS FOR WITHDRAWING LOWEST SHEETS

Alfred Winkler and Max Dünnebier, Neuwied, Germany

Application September 15, 1931, Serial No. 562,928, and in Germany October 9, 1930
9 Claims. (Cl. 271—29)

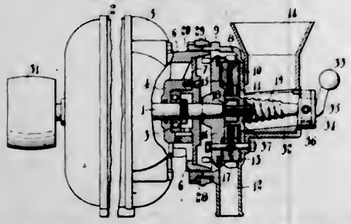


1. A method of withdrawing the lowest piece from contact with the piece adjacent thereto in a stack of folded or unfolded sheets or pieces which comprises introducing compressed air between the lowermost piece and the stack supporting plate at a pressure sufficient to cause the lowermost piece to vibrate or flutter.

1,942,528
GRINDING MILL

Wilbert C. Wood, Toronto, Ontario, Canada

Application November 3, 1930, Serial No. 493,054, and in Canada June 10, 1930
7 Claims. (Cl. 83—8)

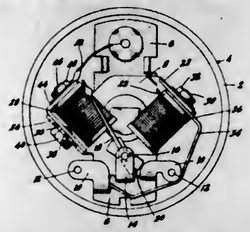


1. A grinding mill including a shaft; a fixed member having a flange extending axially of the shaft; a chamber having a peripheral wall axially movable on the flange; a pair of grinding plates located within the chamber, one of the plates being driven by the shaft and the other secured to a wall of the chamber; means for adjusting the chamber on the flange to regulate the distance between the plates comprising a nut threaded on the flange for engagement by the peripheral wall of the chamber; lugs on the chamber; studs carried by the fixed member and passed through the said lugs; springs disposed on the studs for engaging the lugs to tend to maintain the peripheral wall of the chamber against the nut; and a dog axially movable on one of the studs for engagement with the nut to lock it from turning in either direction.

1,942,529
ELECTRICAL INDICATING DEVICE

Elbridge F. Bacon, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a company of Michigan

Application February 18, 1932. Serial No. 593,769
2 Claims. (Cl. 171—95)



1. In an electrical instrument an armature, a frame, two coils located on said frame at an angle to each other, the position of one coil determining the zero position of the armature and the combined magnetic effect of the coils determining the full scale position of the armature, and adjustable means for moving the zero positioning coil toward or from the axis of the armature in order to affect the scale sweep of the armature.

1,942,530
PRODUCTION OF OXYGENATED ORGANIC COMPOUNDS

Walter Bader and Edward Boaden Thomas, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application February 10, 1930, Serial No. 427,417, and in Great Britain April 12, 1929
6 Claims. (Cl. 260—156)

1. Process for the manufacture of oxygenated organic compounds which comprises subjecting gaseous mixtures containing hydrogen and oxides of carbon to the action of heat and pressure in the presence of a catalyst mass containing a catalytic metal selected from the group consisting of zinc, copper, lead and cadmium solely in the form of its sulphide.

1,942,531
LOW VISCOSITY VINYL POLYMER

Harold J. Barrett, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 3, 1930 Serial No. 459,105
11 Claims. (Cl. 260—2)

3. The method of making a composition of matter which comprises heating under pressure a solution containing one of a group of compounds consisting of vinyl esters and styrene, an organic peroxide catalyst, and one of a group of compounds consisting of rosin and rosin esters.

6. The product of the polymerization of a vinyl compound of the group consisting of vinyl esters and styrene in the presence of rosin.

1,942,532
LARVICIDE AND PROCESS OF MAKING THE SAME

John Clingman Munday, New York, N. Y.

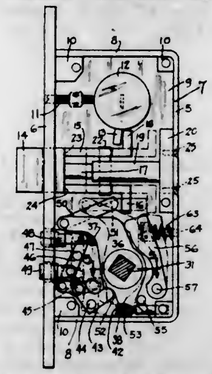
No Drawing. Application May 26, 1931 Serial No. 540,212
3 Claims. (Cl. 167—14)

3. A larvicide consisting of a toxic inorganic salt having an oleaginous agent adsorbed thereon to render said larvicide waterproof and buoyant.

1,942,533
LOCK

Morris Broff, Brooklyn, N. Y.

Application July 5, 1932. Serial No. 620,792
5 Claims. (Cl. 292—167)

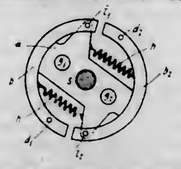


1. In a lock, a retractable latch, a plurality of latch levers including a free latch lever, a knob bar for actuating said latch lever from either side of the lock to retract said latch, and means for yieldably resisting the action of said lever, including a presser piece, arranged to engage said latch levers simultaneously.

1,942,534
CENTRIFUGAL BRAKE FOR AN AIRPLANE ANTENNA WINCH

Ferdinand Burghardt, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application April 29, 1930, Serial No. 448,319, and in Germany June 8, 1929
3 Claims. (Cl. 188—82)



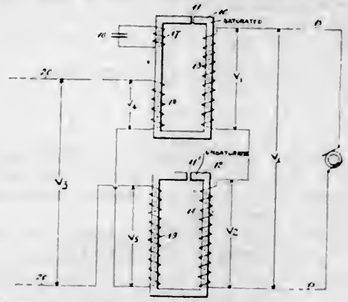
1. In signalling apparatus to be used on aircraft, a reel adapted to extend and draw in the signal absorption member comprising a rotatable drum, a gear fixed to said drum, a driven gear meshing with said first named gear, brake means cooperating with said driven gear, and positive means for rendering said brake means operative when said driven gear is rotated in one direction and for rendering said brake means inoperative when rotated in the other direction.

1,942,535
VOLTAGE REGULATION SYSTEM

Claude F. Cairns, Belmont, Mass.; Mae Lewis Cairns executrix of said Claude F. Cairns, deceased

Application April 24, 1928. Serial No. 272,495
7 Claims. (Cl. 171—119)

1. A voltage regulation system comprising in combination two transformers each having an iron core provided with an air gap, one of said cores being magnetically saturated, and the other core being magnetically unsaturated, means connecting the primaries of said transformers in series with each other and with a source of alternating current; means for automatically shifting the phase of the primary voltage of each of said transformers with respect and in response to a fluctuating line voltage; secondaries for said

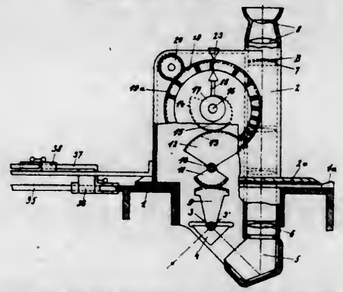


transformers, respectively, and means connecting said secondaries in series with each other and with a load circuit, said secondaries being so connected and related that their resultant voltage is substantially constant from no load to full load for wide fluctuations in line voltage.

1,942,536
APPARATUS FOR DETERMINING THE SPEED AND DIRECTION OF MOVEMENT OF AIRCRAFT AND OF MOVING TARGETS

Antonio Clementi, Vienna, Austria, assignor to Actiengesellschaft C. P. Goerz Optische Anstalt Actiova spolecnost K. P. Goerz opticky ustav, Pressburg, Bratislava, Czechoslovakia

Application July 29, 1930, Serial No. 471,521, and in Germany August 10, 1929
1 Claim. (Cl. 88—1)



In an apparatus for determining the speed and direction of movement of aircrafts and targets, an optical sighting device mounted in the aircraft and comprising means for determining the horizontal distances and the horizontal angles of a target below the level of the said aircraft at the beginning and at the end of a predetermined measuring period, the said optical sighting apparatus being adapted to rotate around a vertical axis and comprising a casing, an entering reflector, means for turning said entering reflector around a horizontal axis, a cam journalled in the said casing, means for turning the said cam at double the speed of the entering reflector, a second cam journalled in the said casing, means for actuating the second mentioned cam by the first mentioned cam, whereby when the first mentioned cam is turned through an angle ϕ, the second mentioned cam is turned through an angle representing the log tan ϕ, a pointer, means for transmitting the rotary movement of the second mentioned cam to the said pointer, a scale for the

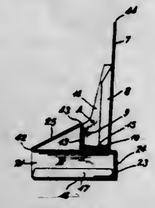
said pointer, means for adjusting the said scale to the logarithm of any given value of h, the height of the aircraft above the target, whereby the said pointer shows directly on the scale the sum log h+log tan ϕ=log (h tan ϕ), a circular angle scale concentric with and fast on the said casing, and a stationary pointer, the quantities thus determined serving for the adjustment of a so-called double triangle solving device for mechanically determining the said directions and speeds.

1,942,537

SHIPPING AND DISPLAY CONTAINER

Harold F. Coleman, East Milton, Mass., assignor to United Drug Company, Boston, Mass., a corporation of Delaware

Application August 25, 1932. Serial No. 630,465
5 Claims. (Cl. 206—44)



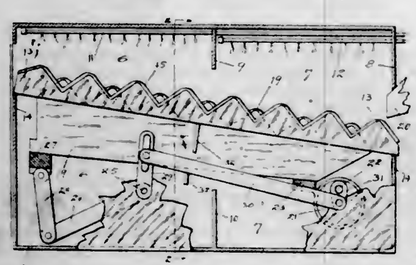
3. A display container formed from a blank having top, bottom, rear and side wall portions folded into a pocket; a wall portion resting on said top wall, a front wall, rear wall, and side wall portions folded into a pocket; and an easel portion extending from the forward edge of the said top wall to the upper edge of said front wall, the container having fold lines in parallelism one at the junction of the easel portion and front wall, and the other fold line at the junction of the easel portion and said top wall enabling the container to be folded into a closed condition with one pocket forming a continuation of the other pocket.

1,942,538

CONVEYER

Frank W. Cutler, Portland, Oreg., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware

Application March 25, 1930. Serial No. 438,819
4 Claims. (Cl. 146—194)



1. In a conveyer: a series of longitudinally disposed bars; notches upon the upper edges of said bars, said notches forming teeth thereupon; a groove upon the apex of each of said teeth; a yieldable member mounted within said grooves: and means for securing said member at the bottom of each of said notches.

1,942,539

PERFORATING DEVICE

Carl George Deubel, St. Louis, Mo., assignor to Progressive Service Company, St. Louis, Mo., a corporation of Missouri

Application July 12, 1933. Serial No. 680,047
1 Claim. (Cl. 164—29)



A perforating device for shoe uppers comprising a rigid plate having a hole therethrough, an imperforate tube having a body the upper and lower portions of which are of uniform diameter and being of uniform internal diameter from its upper end to its lower end and having its lower portion rigidly mounted in said hole through said plate and terminating approximately in the plane of the lower surface of said plate, an integral circumferential flange projecting beyond the body of said tube and seated rigidly upon the upper surface of said plate, and a beveled wall extending upwardly from the outer periphery of said tube to intersection with the inner wall of said tube and forming a sharp cutting edge on the upper end of said tube.

1,942,540

APPARATUS FOR THE PRODUCTION OF ARTIFICIAL FILAMENTS OR THREADS

Henry Dreyfus, London, and Edward Kinsella, Joshua Bower, and William Ivan Taylor, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

Application November 8, 1929, Serial No. 405,784, and in Great Britain December 7, 1928
10 Claims. (Cl. 18—8)



1. Apparatus for the production of artificial filaments, said apparatus comprising a spinning chamber, a spinning nozzle disposed therein for the extrusion of artificial filaments, said nozzle being of general linear form and having a plurality of spinning orifices disposed in a line, and a collector device offering for evaporative medium a passage of linear cross section corresponding to the form of the spinning nozzle, so that substantially the whole of the evaporative medium passing through said collector device is caused to pass from both sides of the extruded filaments through the immediate vicinity of the line of spinning orifices.

1,942,541

METHOD OF MAKING SEAMLESS TUBES

Jerry J. Dunn, Ellwood City, and Peter C. Patterson, McKeesport, Pa., assignors to National Tube Company, a corporation of New Jersey

No Drawing. Application April 19, 1930
Serial No. 445,819
3 Claims. (Cl. 80—62)

1. The method of making thin walled seamless tubes of greater than five and one-half inches in diameter and of standard commercial lengths and having a ratio of wall thickness to outside diameter less than about three per cent. which consists in heating a round solid blank or billet to the proper piercing temperature, piercing said heated billet to form a rough tube having a wall thickness of from approximately 340 to 440 per

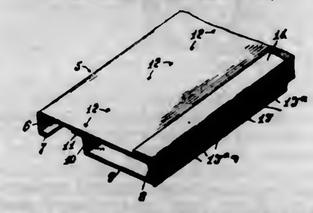
cent. greater than the wall thickness of the finished tube, then again piercing said once pierced tube without reheating to increase its diameter and reduce its wall thickness to approximately 140 per cent. greater than the wall thickness of the finished tube, then carrying the twice pierced tube in a furnace for a brief period, of the order of one or two minutes, immediately after the last piercing operation to produce a uniform temperature from end to end of said pierced tube, then removing said uniformly heated tube and plug rolling, cross rolling and sizing said tube to finished size.

1,942,542

WALL-PAPER TRIMMER'S STRAIGHTEDGE

Fred E. Edgren and Roy A. Edgren, Chicago, Ill.

Application July 15, 1931. Serial No. 550,852
4 Claims. (Cl. 164—73)



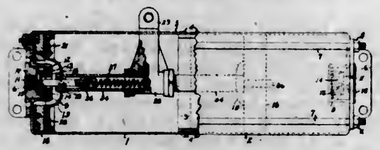
3. A wall paper trimmer's straightedge composed of a single rectangular sheet of metal formed to provide a horizontal portion coextensive with the width of the straightedge, the two longitudinal sides of the sheet being bent at right angles to the horizontal portion to form the vertical sides of the straightedge and the longitudinal marginal portions of the two side forming portions then bent laterally toward each other at right angles to the sides into horizontal portions arranged parallel with the first mentioned horizontal portion, and at least one of said horizontal marginal portions arranged in bearing relation with the first mentioned horizontal portion, to provide a self-sustaining straightedge.

1,942,543

PNEUMATIC ENGINE

Paris R. Ferman, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a corporation of West Virginia

Application October 29, 1932. Serial No. 640,241
4 Claims. (Cl. 121—44)



1. A pneumatic engine comprising a cylinder having closed ends shaped to form inwardly projecting cups and opening outwardly of the cylinder, ported plugs in said cups to form valve chambers, slidable valves in said chambers each having an annular ridge on its inner face, a restricted port therethrough opening within the area of the ridge and constructed to permit free passage of air thereby, a seat in each chamber to be engaged by the ridge of the valve therein, a pair of connected pistons in said cylinder and spring pressed rods slidably mounted on the pistons and arranged to engage said valves to alternately hold them unseated during a portion of the stroke of the piston.

1,942,544

METHOD OF MANUFACTURING MODIFIED STARCHES, DEXTRINES, AND BRITISH GUMS

Arthur D. Fuller, New Rochelle, N. Y., assignor to National Adhesives Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 5, 1931
Serial No. 506,735
22 Claims. (Cl. 127—38)

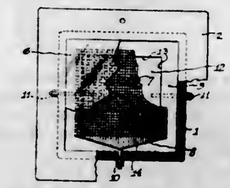
1. Dextrinization method which comprises reacting the starch with chlorine to produce a starch reaction product, adjusting the pH for the particular product desired and thereafter dextrinizing the starch reaction product.

1,942,545

PHOTO-ELECTRIC TUBE

Joseph Gettinger, Detroit, Mich.

Application June 21, 1932. Serial No. 618,503
10 Claims. (Cl. 250—27.5)



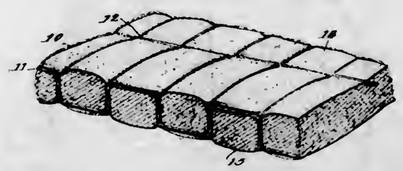
1. A photo-electric tube comprising a conducting block having an exposed face and a substantial thickness behind said face, a photo-electric material on said face, conductors connected to said block at a substantial distance from said face, a conducting medium in advance of said face, a conductor extending from said medium and converging therefrom to a point, an output terminal, and a conductor connecting said point to said terminal.

1,942,546

INSULATING MATERIAL

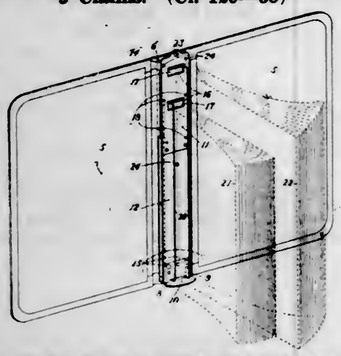
William R. Gillies, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois

Application January 7, 1931. Serial No. 507,097
2 Claims. (Cl. 154—44)



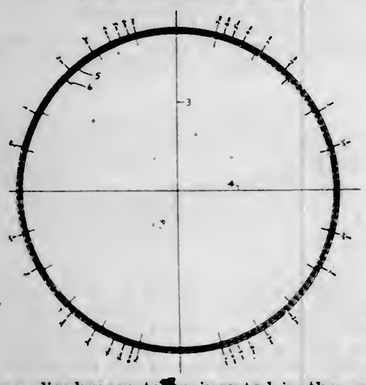
1. A unit for construction of heat insulating material comprising an elongated insulating member constructed of dry asbestos fibers in the form of sliver as it comes from the card, said sliver fibers being arranged side by side and having the outermost fibers of said elongated member matted together with and enclosed with a layer of gum arabic cement, giving said unit a predetermined shape and sufficient tensile strength to maintain its form, and a plurality of cords spirally wound about said unit and embedded in said gum arabic cement to give said unit sufficient tensile strength to be handled upon a reel.

1,942,547
BINDER
Walter A. Gordon, Garden City, and Daniel J. O'Neil, New York, N. Y., assignors to American Telephone and Telegraph Company, a corporation of New York
Application May 19, 1933. Serial No. 671,922
3 Claims. (Cl. 129—38)



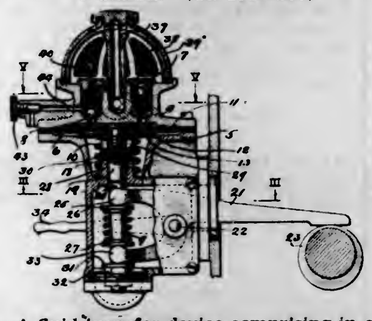
1. A binder for pamphlets and the like including side covers and an interconnecting back portion therefor, mounting means connected with the back portion and having spaced openings therein, removable pamphlet-holding rods having hooked portions at each end, one hooked portion engaging with one of said openings to permit the rod to be swung to and from the back portion and the other end of the rod being adapted to be hooked under an edge of another of said openings and latched therein, and resilient means for pressing said rods in latched relation against the under side of the edges of said openings.

1,942,548
DEVICE FOR DETERMINING AZIMUTH BY OBSERVATIONS ON POLARIS
Stephan Guttormsson, Winnipeg, Manitoba, Canada
Application March 23, 1933, Serial No. 662,280, and in Canada March 2, 1933
1 Claim. (Cl. 33—72)



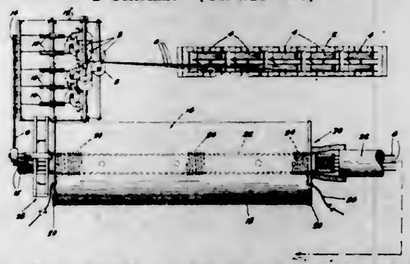
On a diaphragm to be inserted in the reticule of a surveyor's instrument, or transit theodolite, the inscription of a series of concentric circles having radii determined in accordance with the formulæ as set forth in the annexed specification, said circles having the graduations denoting time intervals for use in conjunction with the said concentric circles, substantially as set forth.

1,942,549
FLUID TRANSFER DEVICE
Leon N. Hampton, New York, N. Y., assignor to A C Spark Plug Company, a corporation of Michigan
Application August 7, 1928. Serial No. 298,098
6 Claims. (Cl. 103—207)



1. A fluid transfer device comprising in combination a flexible imperforate pumping diaphragm, opposed operating springs therefor, adjusting means for adjusting the tension of one of said springs, driven means for alternating the bias of said springs, and manual means for vibrating said diaphragm, said manual means including an element interposed between said adjusting means and the spring adjusted thereby.

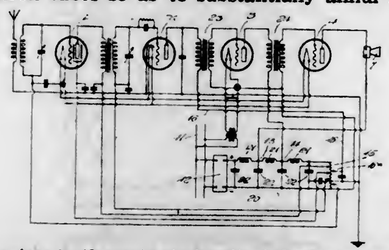
1,942,550
HEAT TREATMENT OF CABLES
Ralph O. Helgeby, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a company of Michigan
Application November 9, 1931. Serial No. 573,871
4 Claims. (Cl. 148—13)



1. The method of removing stiffness and internal friction from multistrand wire flexible shafting for driving speedometers and the like, consisting of passing the shafting through a heated furnace having a temperature of substantially 560° C. at its entrance, substantially 510° C. at its middle and substantially 570° C. at its end.

1,942,551
POWER SUPPLY SYSTEM FOR ELECTRON TUBE SYSTEMS
Ernest R. Hentschel, Washington, D. C.; John Olson, administrator of said Ernest R. Hentschel, deceased, assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application August 9, 1930. Serial No. 474,207
5 Claims. (Cl. 250—27)

1. In combination with a cascade arrangement of electron tubes, a power supply system therefor comprising a source of rectified alternating current, a multi-section filter connected with said source, a potentiometer connected across the output of said multi-section filter, and means for fixing the magnitude and the phase of the ripple currents supplied to the respective anodes of said electron tubes so as to substantially annul ripple noises in the output circuit of the last stage of said cascade arrangement, said means comprising tap connections on said potentiometer to the anode circuits of selected tubes and independent tap connections from individual sections of said multi-section filter remote from said potentiometer to the anode circuits of others of said electron tubes.

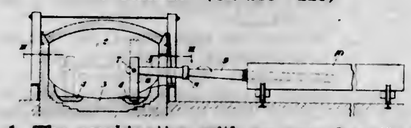


1,942,552
DETACHABLE MOP
Alexander Holtzman, Brooklyn, N. Y.
Application February 24, 1933. Serial No. 658,307
2 Claims. (Cl. 15—147)



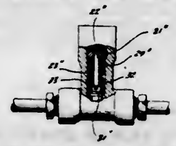
1. A mop comprising a flocculent mass of fibers, a wire formed into a ring to encircle the fibers and its ends twisted to close the ring on the fibers, said twisted ends constituting a stem, a handle having an axial opening to receive the stem therein and a transverse passage above said opening, a clevis having an eye at the center of its looped portion freely engaged in said ring, eyes on the ends of said clevis to register with said passage, and a bolt to pass thru the clevis eyes and passage in said handle.

1,942,553
RABBLING DEVICE
Thomas J. Jamison, Munhall, Pa.
Application June 24, 1931. Serial No. 546,609
2 Claims. (Cl. 259—110)



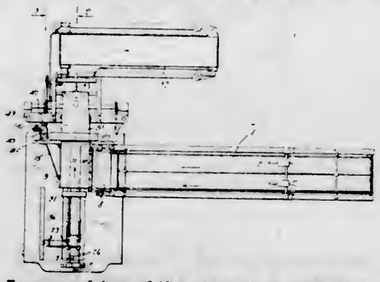
1. The combination with an open hearth furnace charging machine having a peel and means for imparting rotative movement to said peel, of a rabbling device comprising a shaft, means for coupling said shaft to said peel, an elongated plate flatly positioned against and pivotally secured to said shaft adjacent its outer end and adapted to swing freely in line with said shaft and to be held against transverse movement relative thereto whereby said plate will normally hang vertically from said shaft and will move with said shaft when rotative movement is applied thereto and will swing in line with said shaft during insertion of the apparatus through a furnace door.

1,942,554
OIL FILTER PRESSURE CONTROL
Herbert G. Kamrath, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a company of Michigan
Application July 1, 1927. Serial No. 202,909
2 Claims. (Cl. 184—6)



1. In a flow control construction for an oiling system, inlet and outlet ports for said flow control and a valve in one of said ports comprising a hollow stem, a sleeve over said stem, and a disk on said sleeve, said sleeve having openings to permit oil to flow through the stem, the operation of said valve closing said openings.

1,942,555
MACHINE FOR PACKING ARTICLES INTO BOXES
Wallace D. Kimball, Elmhurst, and Cornelius Braren, Queens Village, N. Y., assignors, by mesne assignments, to Standard-Knapp Corporation, New York
Application February 28, 1930. Serial No. 432,181
14 Claims. (Cl. 226—16)

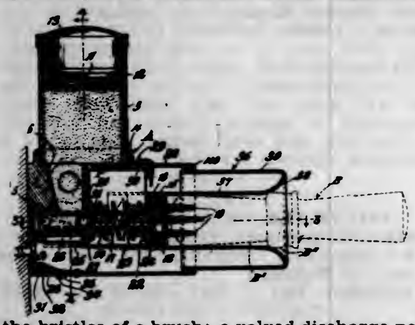


1. In a machine of the class described, the combination of means for advancing articles to be packed into the machine, means for arranging the articles into a stack of predetermined dimensions, said means comprising a table positioned in the line of movement of the articles as they are advanced into the machine, means for lowering the table step by step, and means controlled by the movement of the table for effecting the discharge of the stack of articles therefrom.

1,942,556
DISPENSING APPARATUS
Noel R. Kirk, Tientsin, China
Application May 23, 1932. Serial No. 613,051
9 Claims. (Cl. 221—102)

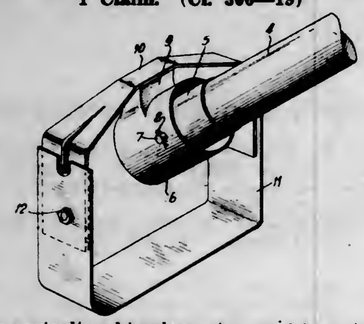
1. Apparatus for dispensing material to a brush comprising a cylinder; a reciprocable hollow pis-

ton therein; a plurality of spaced thin elongated delivery nozzles on the outer end of said piston adapted to penetrate and extend into the interior



of the bristles of a brush; a valved discharge passage providing communication between said cylinder and said delivery nozzles; and means for operating said piston.

1,942,557
AGRICULTURAL IMPLEMENT
Karl Landa, Landskron, Czechoslovakia
Application February 2, 1933, Serial No. 654,889, and in Czechoslovakia March 25, 1931
1 Claim. (Cl. 306—19)



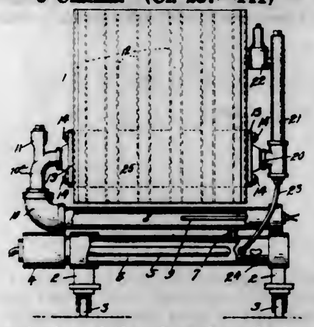
An agricultural implement comprising a tubular shank, a handle socket within said shank, said shank having a larger diameter than said socket, a pin passing through said shank and said socket, a U-shaped blade carrier, and a projection forming a part of said shank and connecting said blade carrier with said shank.

1,942,558
APPARATUS FOR TIERING STRIPS
James T. Leach, Cleveland, Ohio
Application October 7, 1932. Serial No. 636,743
6 Claims. (Cl. 164—59)



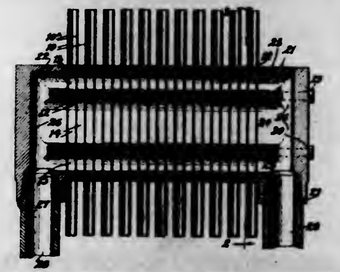
1. Apparatus for tiering strips comprising a shear, a runout table associated with said shear, a stepped block on said runout table for permitting the ends of a plurality of strips to flex into successively different transverse horizontal planes, a trip mechanism adjacent the end of said stepped block for operating said shear and spacing means on said runout table between said stepped block and said shear.

1,942,559
RADIATOR
Leopold Lithman, New York, N. Y.
Application October 19, 1932. Serial No. 638,471
8 Claims. (Cl. 257—141)



2. In a device of the class described, a radiating structure provided with spaced cells, said cells having vertically disposed walls formed with groups of localized perforations, the cells being held together so that the perforated areas in all of the cell walls are in alignment, and tubular spacers disposed between the cell walls with the central openings in said spacers in alignment with the perforated areas in the cell walls.

1,942,560
RADIATOR
Leopold Lithman, New York, N. Y.
Application May 4, 1933. Serial No. 669,304
7 Claims. (Cl. 257—141)

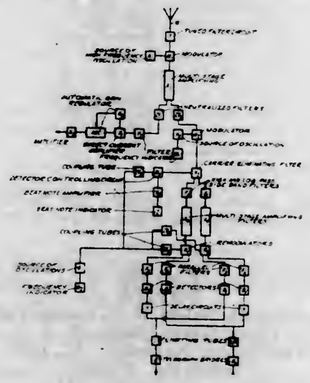


3. A radiator structure having a body portion composed of a plurality of like, apertured, elements placed together to form a water-circulating chamber having several passages through it, flues positioned between the elements and projecting from the same, the faces of the elements being ribbed and recessed and the walls of the flues being complementarily ribbed and recessed to receive the faces of the elements and form a water-tight joint therewith.

1,942,561
RADIO SIGNALING SYSTEM
Gaston Adelin Mathieu, London, England, assignor to Radio Corporation of America, a corporation of Delaware
Application October 25, 1928, Serial No. 314,885, and in Great Britain November 9, 1927
13 Claims. (Cl. 250—9)

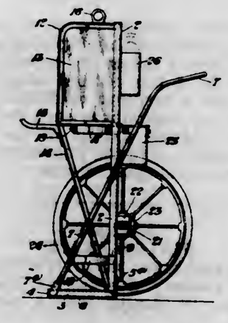
7. The method of signaling, utilizing the reception of a carrier wave modulated by a plurality of signals, which includes reducing the frequency of the carrier of all of the signals; separating out certain of the side bands of the reduced

carrier and detecting said side bands for deriving therefrom certain of the signals and still further



reducing the carrier frequency of the other of said signals.

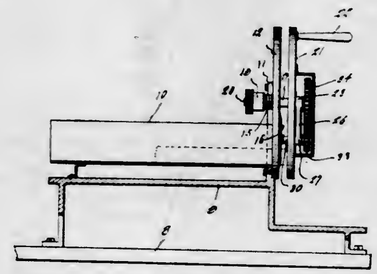
1,942,562
TRUCK
Charles W. Meyers, Cleveland Heights, Ohio
Application December 27, 1932
Serial No. 649,043
3 Claims. (Cl. 280—53)



1. A truck for welding equipment comprising a vertical frame, a tray secured to said frame, a handle secured to said frame and having extensions for supporting said tray, wheels secured to said frame with their peripheries above the bottom portion of said tray, a partition for the upper portion of said frame, a support for said partition, braces for said frame, resilient media disposed in said tray, and means associated with said braces for supporting objects resting upon said resilient media.

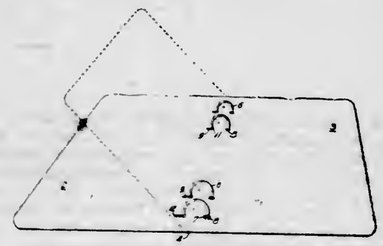
1,942,563
SLICING MACHINE
Homer W. Mood, Paris, Ill., assignor to John Hicks and Guy Hicks, Paris, Ill.
Application December 6, 1932. Serial No. 646,012
2 Claims. (Cl. 146—101)

1. In a meat slicing machine of the class described, in combination, a stationary feed trough, a shearing plate fixedly attached to said trough, a centralized shaft carried by said plate at the central portion of the plate, a balance wheel mounted for rotation on said shaft and disposed in spaced parallelism with said plate, an operating handle for said balance wheel, a crank arm attached to the central portion of the balance wheel and terminating at its outer end in a bearing, a bushing mounted for rotation in said last



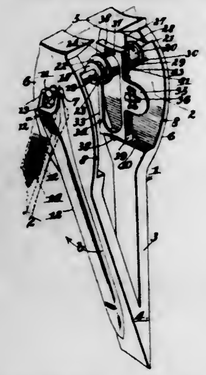
bearing, a driven pinion attached to the bushing, a stub shaft slidably keyed in said bushing and disposed in eccentric parallelism with respect to said first named shaft, a rotary cutter disk carried by said stub shaft and in moving contact with the adjacent face of the shearing plate, and a drive gear attached to the first named shaft, said driven gear being in mesh with said drive gear.

1,942,564
LOOSE LEAF BINDER
Harry F. Morehead, Alameda, Calif.
Application September 8, 1931. Serial No. 561,573
1 Claim. (Cl. 129—1)



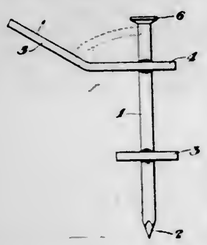
A binder comprising connected covers having apertures therein, and a ring for holding leaves passing through said cover apertures, the aperture in one of the covers providing a relatively snug sliding fit for the ring and the aperture in the other cover being elongated and of such length that one end edge binds against the inner side of the ring to pull the latter against the edges of the snug fitting aperture in the open position of the covers and the other end edge binds against the outer side of the ring to push the same against the edges of the snug fitting aperture in the closed position of the covers.

1,942,565
NAIL CLIPPER SHARPENER
Charles P. Murphy, Ardmore, Pa.
Application August 29, 1933. Serial No. 687,341
16 Claims. (Cl. 30—23).



1. The combination of a nail clipper, and sharpening means for the cutting edges thereof movably carried by the clipper.

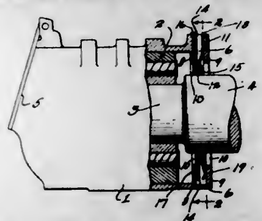
1,942,566
SUPPORT FOR CONCRETE REENFORCEMENTS
Roy M. Neely, Wilkinsburg, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application January 20, 1932. Serial No. 587,819
2 Claims. (Cl. 72—122)



1. A reenforcement support comprising an elongated member constructed for upright surface insertion, a stop on said member for limiting the insertion of the same to a predetermined extent, a bendable rod right angularly fixed to said member above said stop and having an inclined portion and means on the upper end of said member to receive surface inserting force.

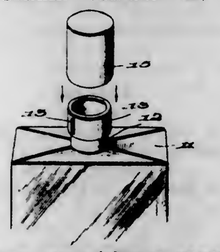
1,942,567
DUSTGUARD
Victor E. Nelson, Pontiac, Mich., assignor to Universal Oil-Seal Company, Pontiac, Mich., a corporation of Michigan
Application October 20, 1931. Serial No. 569,965
6 Claims. (Cl. 286—6)

1. A dust guard for use with a shaft and journal box having spaced end walls apertured to receive the shaft, comprising an apertured flat sheet metal plate recessed at the aperture, an L shaped ring for positioning in the recess, a packing ring between said L shaped ring and the base of the recess and engaging the shaft, a packing in sheet form on one face of the plate about the recess,



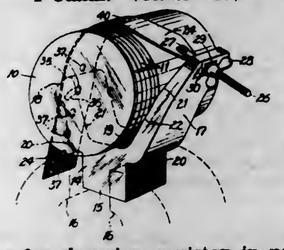
and spring means for holding the packing and plate against one of the walls of the recess.

1,942,568
BOTTLE
Henry J. Pawling, Salem, N. J., assignor to Salem Glass Works, Salem, N. J.
Application November 12, 1929
Serial No. 406,665
5 Claims. (Cl. 215—31)



5. A container comprising a vessel having a mouth and provided with peripherally spaced retaining projections below the mouth, and a closure comprising a top portion adapted to cover the mouth and a resilient cylindrical skirt portion adapted to encompass said retaining projections and slidable axially of the vessel into and out of elastic gripping engagement with the outer surfaces of said projections.

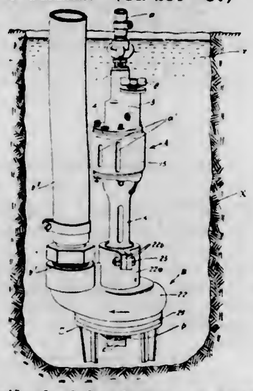
1,942,569
PISTON CLAMP
Carroll W. Prochaska, Mount Vernon, N. Y., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application May 26, 1932. Serial No. 613,699
1 Claim. (Cl. 29—89)



A device for clamping a piston in position to be operated upon, said device including a Y-shaped block having a shank adapted to be engaged between the opposing jaws of a vise, and a pair of arms extending from said shank and presenting therebetween a seat for the piston, said arms forming shoulders with said shank

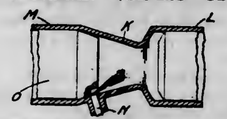
adapted to seat on top of the jaws of the vise when in clamped position, a flexible strap adapted to pass over a portion of the surface of the piston and having a plurality of apertures spaced along the strap at one end thereof, a pin extending from said block and adapted to engage any one of said apertures, a screw member connected to the other end of said strap, the upper end of one of said arms having an aperture for receiving said screw member, a nut threaded on said screw member and engaging said bracket for tightening said strap around the periphery of said object, and a button projecting from said strap and adapted to extend in an aperture in said cylindrical object to hold said object against rotation.

1,942,570
METHOD AND APPARATUS FOR REMOVING LIQUIDS AND GASES FROM MANHOLES, PITS, AND THE LIKE
Melvin C. Reed, Rutherford, N. J., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application August 8, 1930. Serial No. 473,891
6 Claims. (Cl. 230—87)



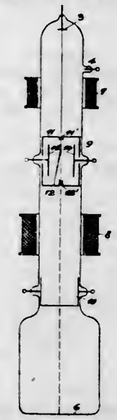
5. The method of freeing a manhole or pit of liquid and of dangerous and/or noxious gases and fumes which comprises disposing a compressed air motor-pump unit at the bottom of the pit and submerged below the surface of the liquid, operating the unit by compressed air to pump a continuous stream of liquid from the pit, and causing a continuous flow of exhaust air from the motor below the surface of the liquid whereby to displace the atmosphere in the pit from adjacent the surface of the liquid.

1,942,571
TWO-STROKE INTERNAL COMBUSTION ENGINE
Harry Ralph Ricardo, London, England
Application May 12, 1930, Serial No. 451,730, and in Great Britain May 21, 1929
9 Claims. (Cl. 123—51)



7. An internal combustion engine of the liquid fuel injection type operating on the two-stroke cycle including in combination two coaxial cylinders placed end to end, one cylinder being provided with an exhaust port and the other with an inlet port directing the air charge in a rotational path about the cylinder axis, a common combustion chamber between the adjacent ends of the cylinders having a diameter less than that of the cylinder bores, means for injecting at least one jet of fuel in a substantially radial direction into the combustion chamber, pistons in the two cylinders controlling the ports, rotary members on which the pistons act and by which they are reciprocated, and an interconnection between these rotary members such that the reciprocating movements of the pistons within their cylinders are so relatively out of phase as to impart movement in the axial direction to the rotating air charge as a whole within the combustion chamber during the fuel injection period.

1,942,572
CATHODE RAY OSCILLOGRAPH
Walter Rogowski and Eugen Flegler, Aachen, Germany
Application July 18, 1928, Serial No. 293,627, and in Germany August 1, 1927
2 Claims. (Cl. 250—27.5)

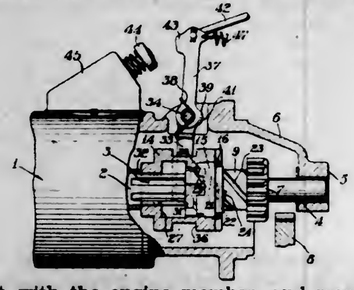


1. An oscillograph comprising the combination with a cathode for discharging a stream of electrons, an anode and a receiving surface, of an obstructing chamber between the anode and the receiving surface, one diaphragm at each end of the obstructing chamber, an aperture in each diaphragm wherethrough to pass the stream of electrons, and deflecting means in the said chamber for temporarily deflecting the electron stream in the chamber to prevent the stream itself or emanated Röntgen rays from passing out of the obstructing chamber to the receiving surface.

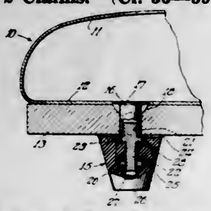
1,942,573
ENGINE STARTER
Youston Sekella, Elmira Heights, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a corporation of New York
Application March 30, 1932. Serial No. 602,053
9 Claims. (Cl. 74—7)

1. In a starter gearing for internal combustion engines, a power shaft, a driving member freely journalled thereon for movement into and out of engagement with a member of the engine to be started, a shifting and rotating member for said driving member splined on said power shaft, said shifting member and driving member having cooperating connections comprising abutments normally in registry for shifting the driving member, said shifting member and driving member

also having an inclined connection therebetween, said connections being so arranged that overrunning of the engine member is effective to move said abutments out of registry and automatically withdraw the driving member from its engagement with the engine member, and means for returning the driving member to normal driving relation with the shifting member, with the abutments in engaging position when the shifting member is returned to its idle position.

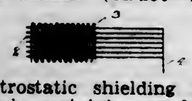


1,942,574
ATHLETIC SHOE
Isadore Shapiro, Chicago, Ill., assignor to Athletic Shoe Company, Chicago, Ill., a corporation of Illinois
Application May 23, 1931. Serial No. 539,554
2 Claims. (Cl. 36—59)



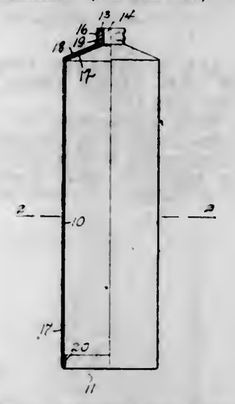
1. In a device of the class described, a shoe having an apertured sole, an interiorly threaded member extending through said sole and having an enlarged head, a tread member having an axial bore with female threads therein and an enlarged cavity adjacent the upper portion thereof communicating with said bore, a washer disposed between said tread member and said sole, and an integral member uniting said tread with said interiorly threaded member, said uniting member comprising a screw portion engageable with the threads of said tread member, a screw portion engageable with said interiorly threaded member, and an enlarged portion disposed between said screw portions for clamping said interiorly threaded member to said sole, said enlarged portion being housed in the enlarged cavity of said tread member.

1,942,575
ELECTROSTATIC SHIELDING MATERIAL
Lazarus Shapiro, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 3, 1922. Serial No. 598,731
18 Claims. (Cl. 250—16)



1. An electrostatic shielding material comprising a fabric containing conducting filamentary strands held together by binding material and insulated from each other to form a plurality of separate open circuit conducting paths, and means for connecting the strands to form an equipotential surface.

1,942,576
DISPENSING TUBE
Raymond J. Short, Nutley, N. J., assignor, by mesne assignments, to Lusteroid Container Company, Inc., Maplewood, N. J., a corporation of New Jersey
Application June 18, 1931. Serial No. 545,202
3 Claims. (Cl. 221—60)



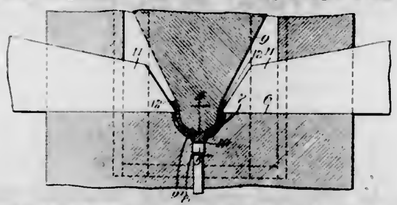
1. A dispensing receptacle comprising a thin non-resilient collapsible tube of metal and a second tube of celluloid affixed to the outside of the collapsible tube, the celluloid tube causing the collapsible tube to resume its normal shape when squeezing pressure is released, the collapsible tube thus forming a lining to the resilient celluloid tube.

1,942,577
SULPHURIC ACID ESTER OF FATTY ACID COMPOUNDS OF HIGH MOLECULAR WEIGHT AND PROCESS OF MAKING SAME
Hugo Siebenbürger, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application May 19, 1931, Serial No. 538,605, and in Switzerland May 28, 1930
8 Claims. (Cl. 260—98)

1. The manufacture of sulphuric acid esters by reacting, in presence of an excess of a tertiary organic base, a fatty acid compound containing at least one OH-group in the fatty acid radicle, with the addition products of sulphur-trioxide and an organic tertiary base.

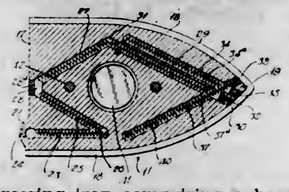
1,942,578
METHOD OF MAKING BEARING SLEEVES
Berger Stockfleth, Niles, Mich., assignor, by mesne assignments, to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio
Original application June 5, 1928, Serial No. 283,109. Divided and this application February 29, 1932. Serial No. 595,885
7 Claims. (Cl. 29—149.5)

1. The method of producing a doweling projection on the back of a finished and sized bearing sleeve made partly of Babbitt or similar bearing metal, which consists in providing a harder metal backing shell having a partly formed doweling projection formed thereon, the projection being perforated at its bottom, applying a suitable bonding metal such as tin to the backing, applying Babbitt or similar metal to the backing to form a lining within the backing, the whole being thicker than the finished bearing sleeve, subjecting the composite sleeve thus formed to a very heavy pressure in dies provided with a depression, of the form, shape and size



of the doweling projection desired and adapted to receive the partly formed projection on the backing, and by the said heavy pressure reducing the radial thickness of the sleeve, forcing the partly formed projection to conform to said depression, forcing the softer metal of the lining through the opening in the bottom of the partly formed projection to completely fill said depression, and forcing the metal of the sleeve to fill the die space of the dies and whereby the sleeve is accurately sized.

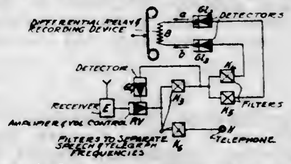
1,942,579
PRESSING IMPLEMENT
Arthur Sussman, New York, N. Y.
Application April 27, 1932. Serial No. 607,693
2 Claims. (Cl. 68—26)



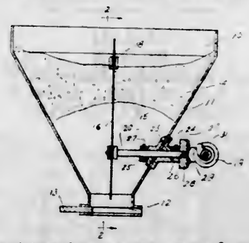
1. A pressing iron comprising a base, a cover therefor, said base being provided with a narrow elongated passage of circular cross-section, means for feeding steam to said passage, and means within said passage for retarding the flow of steam therethrough said means comprising a strip of uniform width and of zig-zag shape and disposed along the length of said passage.

1,942,580
WIRELESS TRANSMISSION OF TELEGRAPH IMPULSES
Dietwald Thierbach, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application April 22, 1930, Serial No. 446,326, and in Germany April 25, 1929
3 Claims. (Cl. 250—8)

1. Means for receiving signals composed of double current impulses at different frequencies and continuous voice modulated oscillations including, signal absorption means, an amplifier including volume control means connected with said absorption means, means for separating the voice frequency modulated signals from the other signals, a plurality of filter circuits each tuned to one of the frequencies of the double current signals, said filter circuits being connected with said amplifier, a rectifier connected with each filter circuit, a differential relay connected with said rectifiers, and a rectifier having its input terminals connected to the output of said amplifier and its output terminals connected to the volume control means in said amplifier.

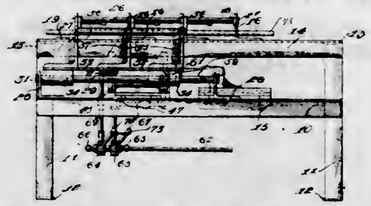


1,942,581
VIBRATING APPARATUS
Edgar B. Tolman, Jr., Chicago, Ill.
Application June 8, 1933. Serial No. 674,855
3 Claims. (Cl. 259—39)



1. In combination, a storage hopper having downwardly converging side walls terminating in a discharge opening, a plate positioned in the hopper above said opening, means providing a pivotal support from which the plate is suspended and adapted to be oscillated laterally, a rod fastened to said plate and having one end projecting through the wall of the hopper, means adapted to prevent rotation of the rod, a pair of lateral projections on the rod positioned on opposite sides of said hopper wall providing stop members permitting limited reciprocal longitudinal movement of the rod, a motor mounted on and supported by the projecting end of the rod, the shaft of said motor extending transversely to said rod, and a member eccentrically mounted on and revolvable with the motor shaft.

1,942,582
SAUSAGE MAKING METHOD AND APPARATUS
Charles H. Vogt, Philadelphia, Pa.
Application February 21, 1928. Serial No. 255,942
16 Claims. (Cl. 17—32)



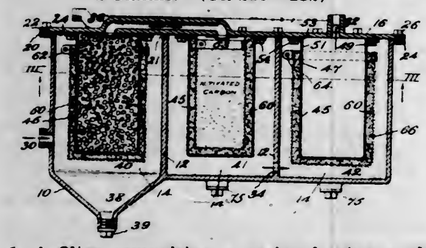
1. Ejecting apparatus comprising a frame member; brackets supported on said frame member in transversely alined pairs; a guide supported by one pair of said brackets; supporting and guiding members extending longitudinally of the frame member and supported by said guide and the other pair of brackets; said supporting and guiding members adapted to support a charged mold, with a face thereof in en-

gagement with said guide; other supporting and guiding members supported by the frame member; means slidably supported on said last supporting and guiding members, in alinement with the bores of said mold; and means to impart reciprocating motion to said last means.

1,942,583
PROCESS OF MAKING MOLDS
William H. Walter, Cynwyd, Pa.
No Drawing. Application May 21, 1932
Serial No. 612,865
5 Claims. (Cl. 22—188)

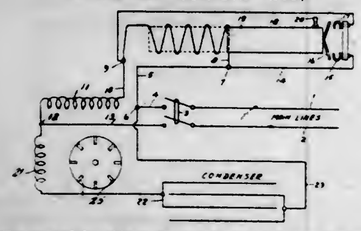
1. The process of making molds for metal castings which consists in mixing a solution of celluloid with a volatile solvent such as acetone or butanol, impregnating the mold sand with said celluloid and solvent mixture and forming only the facing of the mold from said impregnated sand.

1,942,584
FILTER
Joseph Weinstein, Jamaica, N. Y.
Application June 22, 1932. Serial No. 618,643
2 Claims. (Cl. 210—132)



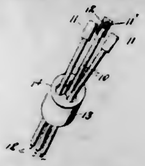
1. A filter comprising a casing having a plurality of compartments therein, a cover, and means for connecting said cover to said casing with a leak-tight seal, and filtering means in said compartments, said filtering means comprising a cupped support having a perforated portion, means connecting said cupped support to said cover with a leak-tight seal, and means for conducting liquid from one compartment to another through the filtering means therein, said conducting means being formed as a duct passing through the cover and communicating with the interiors of the cupped supports in serial flow relation.

1,942,585
SINGLE PHASE ELECTRIC MOTOR SPEED CONTROL
Bjarne A. Weseche, Cincinnati, Ohio
Application July 6, 1931. Serial No. 548,763
13 Claims. (Cl. 172—275)



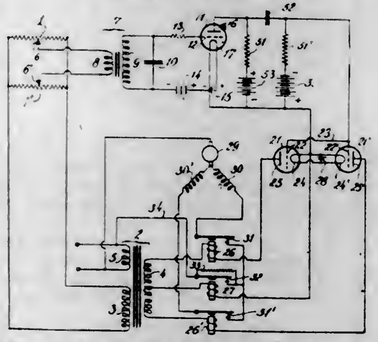
4. In combination in a single phase induction motor, a main primary winding and an auxiliary primary winding circuit connected in parallel therewith, said auxiliary winding circuit including a reactance element, and a variable inductive reactance connected in series to said primary windings, and means for increasing the impedance of said windings comprising a high inductance rotor.

1,942,586
ELECTRICAL CONNECTION
Jesse M. White, Philadelphia, Pa.
Application March 25, 1932. Serial No. 601,241
4 Claims. (Cl. 173—324)



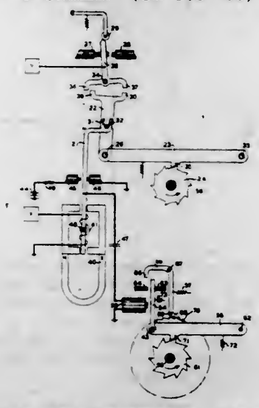
1. An electrical connection comprising wires having terminals thereon greater in diameter than the wires, a block having an approximately axial opening proportioned to provide passage for one terminal, lateral openings offset from and communicating with said axial opening and being constricted, the larger parts proportioned to fit the terminals and the constrictions forming shoulders, all so proportioned that a terminal seated upon a shoulder projects into and obstructs the axial opening to such an extent that another terminal will not pass therethrough.

1,942,587
CONTROL SYSTEM
Vernon E. Whitman, Washington, D. C., assignor to Hazeltine Corporation, Jersey City, N. J., a corporation of Delaware
Application August 30, 1930. Serial No. 479,041
7 Claims. (Cl. 172—239)



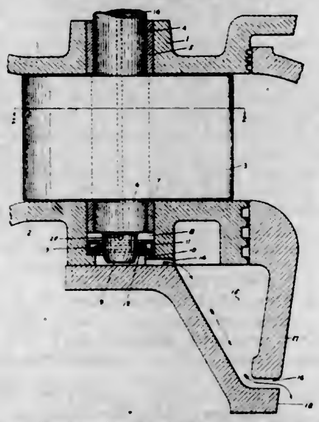
6. In a remote control system, a reversible drive mechanism, an electrically balanced alternating current bridge network, a source of alternating current of fixed voltage connected as an input circuit across one pair of conjugate points of said network, an output circuit connected across the other pair of conjugate points of said network, said last-mentioned points being adjustable to vary the output voltage, control means for adjusting one of said points and thereby disturbing the balance of said network to cause an alternating current to flow in said output circuit, and control means independent of said drive mechanism responsive to the magnitude of said current for setting said mechanism in operation and including selective relay means for discriminating between the phase of the current in said output circuit relative to the current in said input circuit for determining the direction of operation of said mechanism.

1,942,588
TELEGRAPH REGENERATIVE REPEATER
Erwin P. Bancroft, Brooklyn, N. Y., assignor to International Communications Laboratories, Inc., Newark, N. J., a corporation of New York
Application February 6, 1932. Serial No. 591,324
5 Claims. (Cl. 178—70)



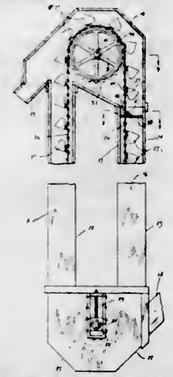
1. In a regenerative repeater, the combination of a relay for receiving signals, a rotatable cam, a movable arm, a plurality of contacts, means controlled by the relay for positioning said arm in relation to said contacts, means controlled by the cam for operating said arm to cause the operation of the contacts with which it is positioned, means for creating a momentary impulse at each reversal of the received signals, a lever movable transversely under control of the momentary impulse, local mechanism controlling longitudinal movement of said lever, and means operated by said lever under such dual control to maintain said cam in synchronism with the received signals.

1,942,589
HYDRAULIC TURBINE
George A. Biggs, Springfield, Ohio, assignor to The James Leffel & Company, Springfield, Ohio, a corporation of Ohio
Application June 21, 1932. Serial No. 618,492
10 Claims. (Cl. 253—122)



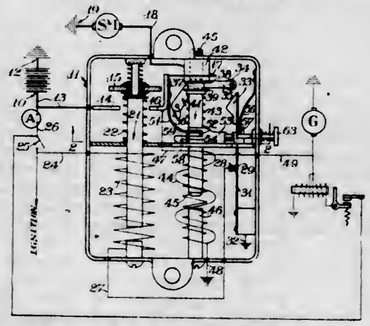
1. In a hydraulic turbine, a gate having an upper bearing shaft and lower bearing shaft with a restricted end, supporting rings therefor for guiding the water over the gate and supporting it, one of said rings forming a water receiving chamber around said restricted end.

1,942,590
ELEVATOR CLEANING DEVICE
Delmar M. Binger, St. Paul, Minn.
Application October 29, 1931. Serial No. 571,807
8 Claims. (Cl. 198—231)



1. A cleaning device for cleaning the interior of an elevator leg, rectangular in form and having a chain passing therethrough in spaced relation to the inner surface thereof, said device comprising a rectangular brush body having four edges substantially conforming in lateral configuration to the shape of said leg and of smaller lateral dimensions than said leg, means for attaching said brush body to the elevator chain to maintain the inner part of the chain unobstructed throughout its extent and bristles issuing outwardly from the four edges of said brush body and engaging the front, back and sides of said leg, for cleaning the same, the bristles at the back of the leg and adjacent the chain straddling the same.

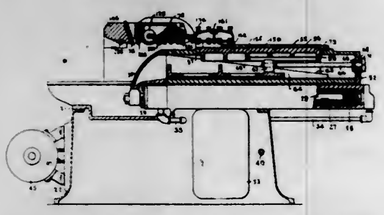
1,942,591
AUTOMATIC STARTING MECHANISM
Frank T. Christian, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a corporation of New York
Application April 24, 1931. Serial No. 532,485
5 Claims. (Cl. 290—38)



1. In automatic starting mechanism for internal combustion engines, a starting circuit including a source of electrical energy, a starting motor and a switch for controlling said motor; a control circuit for said switch including said

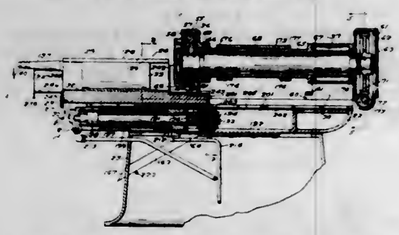
source of energy, electro-magnetic means for actuating said starting switch and a pair of contacts; means for opening said contacts when the engine starts and for closing the same when the engine stalls, means for moving and maintaining said contacts in open position and means responsive to a predetermined rise in temperature in the starting circuit for initiating the action of said moving means.

1,942,592
MACHINE FOR REDUCING PRINTING PLATES TO UNIFORM THICKNESS
Leslie W. Claybourn, Milwaukee, Wis.
Application June 21, 1930. Serial No. 462,884
8 Claims. (Cl. 29—33)



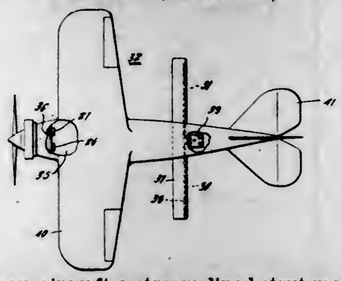
1. In a machine of the character described, the combination of a rotary cutter-head for cutting the back of a printing plate, a rotary conveyor alongside said rotary cutter-head, coacting walls for said rotary cutter-head and said rotary conveyor respectively, a connecting web between said walls, said walls and said connecting web forming a downwardly opening recess extending lengthwise of said cutter-head between said walls, and presser means for the printing plate in said recess.

1,942,593
MEANS FOR REDUCING CURVED PRINTING PLATES TO UNIFORM THICKNESS
Leslie W. Claybourn, Milwaukee, Wis.
Application April 18, 1932. Serial No. 605,976
24 Claims. (Cl. 29—21)



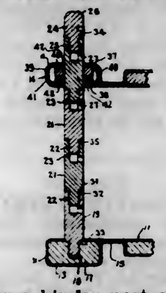
1. In a machine of the character described, the combination of a pillow having a curved printing plate receiving trough, a rotary cutter head whose axis of rotation is in line with the axis of the curvature of said trough, sectional presser means in close adjacency to said rotary cutter head, said trough having a curved printing plate supporting face, means urging said sectional presser means toward various portions of said supporting face about its curvature for pressing all printing portions of said printing plate into a sector of a cylindrical plane coincident with the curvature of said supporting face, and means for causing endwise movement substantially parallel with the axis of rotation of said rotary cutter head between said pillow and said rotary cutter head and presser means.

1,942,594
ALTIMETER INSTALLATION
Paul S. Edwards, Fort Meade, Md., and Constantin D. Barbulesco, Dayton, Ohio
Application October 16, 1929. Serial No. 400,042
2 Claims. (Cl. 250—33)



1. In an aircraft a stream-lined strut mounted transversely to the longitudinal axis thereof across a point substantially removed from the metal parts of the aircraft having a groove in the trailing edge for rigidly supporting an antenna to minimize the capacitive effect of the metal parts of the airplane.

1,942,595
POST BINDER
Charles Harry Fischer and Frederick H. Fischer, Cincinnati, Ohio
Application April 30, 1930. Serial No. 448,638
3 Claims. (Cl. 287—125)

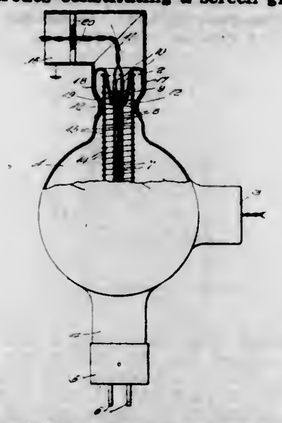


1. A joint for a binder post consisting of two sections, one having a threaded axial socket and the other having a threaded axial screw to cooperate with said socket and encircling tapered shoulders one funnelled and the other conical about said socket and said screw and having outer annular margins, the pitch of the funnelled taper being greater than that of the conical taper, and the outer annular margins of said encircling shoulders spaced radially from said socket and said screw and forming fulcrums for aligning said sections with relation to each other upon screwing said sections together.

1,942,596
SHIELDING SYSTEM
Ernest R. Hentschel, Washington, D. C.; John Olsen, administrator of said Ernest R. Hentschel, deceased, assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application July 3, 1930. Serial No. 465,724
4 Claims. (Cl. 250—27.5)

1. An electron tube comprising an evacuated vessel having a projecting tubular portion, an annular neck of reduced cross-section

disposed along said tubular portion, a multiplicity of electrodes disposed within said vessel, one of said electrodes constituting a screen grid, and a



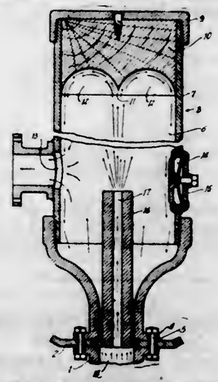
conductive shield encircling the tubular portion of said evacuated vessel and engaging the annular neck thereof and establishing electrical coupling to said screen grid.

1,942,597
ANCHORING MEANS FOR WELL CASINGS
James M. Hewgley, Oklahoma City, Okla.
Application July 7, 1930. Serial No. 465,870
4 Claims. (Cl. 166—15)

1. A device for the purposes described, embodying an annular member having a central bore and having a flat upper and lower surface surrounding said bore, said member adapted to be attached to the upper end of a master gate valve upon a well casing and beneath the lower end of a second master gate valve thereabove for forming a continuation of both valves, means carried by each of said flat surfaces for receiving a sealing ring, and outstanding arms carried by said member for co-acting with turn-buckle rods for holding said casing and the first mentioned valve against upward movement.

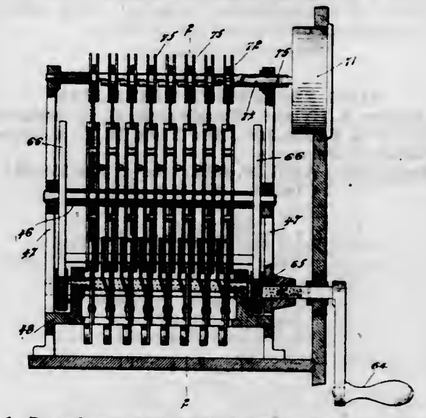
1,942,598
EXPANSION HEAD
James M. Hewgley, Oklahoma City, Okla.
Application January 22, 1931. Serial No. 510,499
11 Claims. (Cl. 166—15)

1. An expansion head, having in combination, a housing having an axial inlet in one of its ends and having its other end closed, said housing forming an expansion chamber of considerably greater diameter than the diameter of said inlet, said housing also having a lateral outlet adjacent



said inlet, and removable means within said inlet for controlling the ingress of a fluid.

1,942,599
FREQUENCY CONTROL DEVICE
George B. Hirsch, Pawtucket, R. I.
Application August 31, 1929. Serial No. 389,846
4 Claims. (Cl. 250—20)

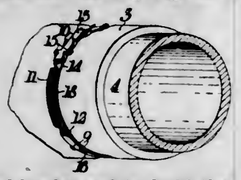


1. In a frequency control device for an electric circuit, mechanism for changing the circuit frequency, a shaft operatively connected to said mechanism, a plurality of selector elements secured to said shaft, a plurality of selector members pivotally mounted on said shaft and adjustably secured to said selector elements, a second shaft parallel to said first shaft, means on said second shaft for locking the selector members in position for operating the mechanism for changing the circuit frequency, said locking means comprising two parallel spaced plates for each selector member, and a timing device for controlling the operation of said locking means.

1,942,600
CLAMP
Elias J. Hornung, Rochester, N. Y.
Application September 6, 1932. Serial No. 631,821
2 Claims. (Cl. 24—19)

1. In an article of the class described, a band formed of a single piece of flexible material substantially inextensible in the direction of its

length, said band having a series of pairs of hooks struck up from its edges intermediate its ends, a latching member having lugs to engage any of

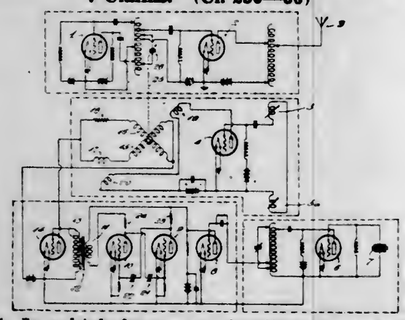


said pairs of hooks and to hold the ends of said band in overlapping relation, and a spring connecting said latch member to said band near one end thereof.

1,942,601
WATERPROOFING SOLUTION FOR STUCCOED SURFACES
William Bascom Houston, Alhambra, Calif.
No Drawing. Application May 23, 1931
Serial No. 539,639
2 Claims. (Cl. 134—11)

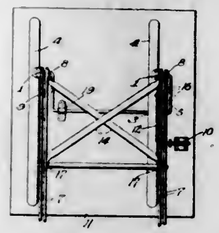
1. The herein described method of making a water proofing solution for stuccoed walls, which consists in making a water solution of sodium stearate soap, then heating the solution to a temperature of approximately 50° centigrade, then adding a hard fat to the solution, and finally adding a soft soap solution of cresols in the proportion of approximately one-half fluid ounce to two gallons of the soap-fat solution.

1,942,602
HIGH FREQUENCY STABILIZER
Lawrence A. Hyland, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application April 30, 1929. Serial No. 359,381
7 Claims. (Cl. 250—36)



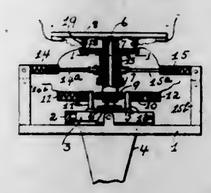
1. In a high frequency circuit arrangement, a high frequency oscillator, frequency controlling means in said oscillator, a movable coil member, a connection between said movable coil member and said frequency controlling means in said oscillator for adjusting said oscillator when said movable coil member is operated, an independent constant frequency source, means for producing submultiple frequencies of the energy of said independent constant frequency source, connections between said movable coil member and said last mentioned means whereby a submultiple frequency of the energy from said independent constant frequency source is impressed on said movable coil member, and a stationary coil member coupled with said movable coil member and connected with both the output of said independent source and said oscillator for controlling the adjustment of said movable coil member.

1,942,603
FOLDING TABLE
Karl G. Johanson, West Concord, Mass.
Application June 20, 1932. Serial No. 618,254
2 Claims. (Cl. 45—11)



1. A folding table comprising a table top, two pairs of crossed legs for supporting said top, means for pivotally connecting the upper end of one member of each pair of legs to said table, two links pivoted to the upper ends of the other members, respectively, of each pair of legs and connecting them to the table at points lying in a common axis but spaced from the first mentioned pivotal connections by such a distance that both pairs of said legs can be folded to bring all of said pivotal connections into line in a common axis, with two of said legs disposed between the other two legs, a pivot rod common to both pairs of legs, and two braces extending diagonally from the opposite ends of said pivot rod to the opposite upper ends of the inner members of said pairs of legs.

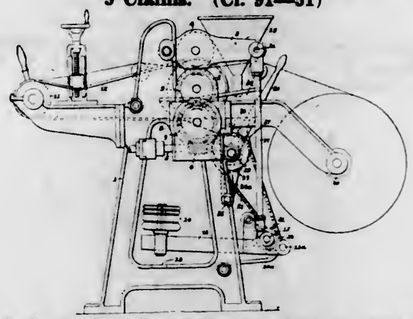
1,942,604
CAMERA LEVELING AND SHUTTER CONTROLLING APPARATUS
Arthur T. Kennedy, Duluth, Minn.
Application August 24, 1932. Serial No. 630,204
7 Claims. (Cl. 88—16)



3. The combination with a relatively stationary frame having gimbal rings mounted thereon, of a foot plate mounted upon the interior one of said rings; a post erected upon said foot plate; a sleeve mounted upon said post; a head plate on said sleeve; a loose collar upon said sleeve; a group of radially disposed electromagnetic coils and a group of armatures therefor, one of said groups being connected to relatively stationary anchorages on said frame, the other of said groups being connected to said collar; a tube pivotally mounted on said head plate, said tube having a window in one end; a plurality of photoelectric cells within said tube; mirrors within said tube for reflecting to said cells at various times, respectively, light entering said tube through said window at correspondingly various angles; means for automatically moving said tube on its pivot; and a plurality of electric circuits, each including a source of electricity, one of said cells and one of said coils.

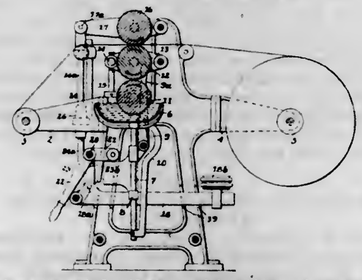
CARNEGIE LIBRARY OF ATLANTA

1,942,605
QUETCH
William J. Koch, Midland Park, N. J., assignor to Van Vlaanderen Machine Company, Paterson, N. J., a corporation of New Jersey
Application September 24, 1931
Serial No. 564,834
5 Claims. (Cl. 91—51)



2. A quetch comprising a frame, a revoluble pressure roll arranged in the frame, another pressure roll movable in the frame into and out of pressure relation to the first roll, a size-applying means movable in the frame into and out of size-applying relation to one such roll, and mechanism controlling said movable roll and means and movable to establish them simultaneously in or simultaneously out of the positions where the former presses against the other roll and the latter applies size to one roll.

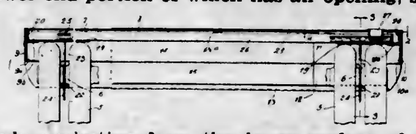
1,942,606
QUETCH
George W. Lane, Clifton, N. J., assignor to Van Vlaanderen Machine Company, Paterson, N. J., a corporation of New Jersey
Application June 20, 1930. Serial No. 462,475
8 Claims. (Cl. 91—50)



2. In a quetch, the combination of supporting means, means therein to advance and at the same time compress the material being treated including a rotated compression roll, a liquid-delivery roll journaled in the supporting means with its periphery in liquid-delivery but spaced relation to the periphery of the first roll, and means to drive the second means and simultaneously drive the liquid-delivery roll at a speed variable independently of the speed of the second means.

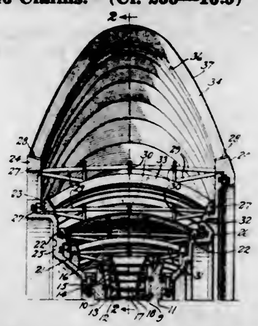
1,942,607
RADIATOR HOOD
Albert H. Levene, Newark, N. J.
Application November 25, 1929
Serial No. 409,500
6 Claims. (Cl. 237—78)

4. A cover adapted to be mounted on a heating unit and above a water receptacle supported on said unit, a cup-shaped body in said cover, the lower end portion of which has an opening, said



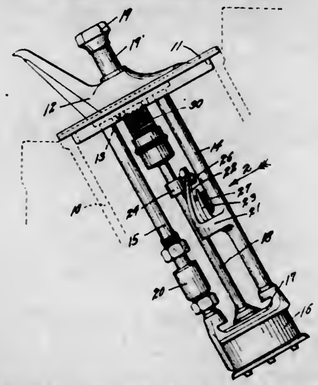
body projecting from the lower surface of the cover and into said water receptacle to form a filler and water gage device for said receptacle.

1,942,608
TURBINE
Fredrik Ljungström, Brevik, Lindingo, Sweden, assignor to Aktiebolaget Spontan, Stockholm, Sweden, a corporation of Sweden
Application September 8, 1931, Serial No. 561,565, and in Germany September 15, 1930
46 Claims. (Cl. 253—16.5)



1. In a turbine, axially spaced rotatable blade retaining members, a blade consisting of a relatively thin flexible strip of material secured to said members, and means providing a radial flow of fluid to said blade.

1,942,609
SODA FOUNTAIN SIRUP PUMP
Frank W. Ludwig, Denver, Colo., assignor to L. Grauman Company, Denver, Colo.
Application November 16, 1932
Serial No. 642,843
6 Claims. (Cl. 225—35)

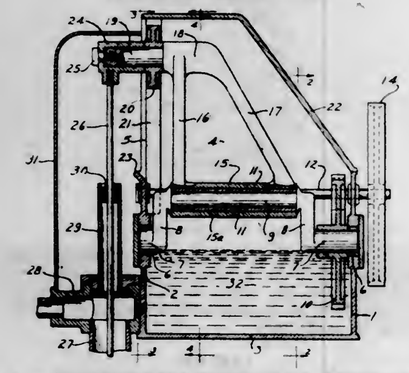


1. Means for limiting the stroke of a pump rod at either of two desired points comprising: an arcuate track member adjacent to and about said pump rod; a projection on said pump rod; a spring arranged to hold said projection against said track member so that it will be guided by the latter into either of two different paths.

1,942,610
PROCESS FOR PRODUCTION OF WATER SOLUBLE METAL CARBAMATES
Robert Burns MacMullin, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application March 2, 1932
Serial No. 596,405
6 Claims. (Cl. 260—112)

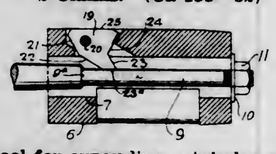
1. In the production of carbamates of metals the carbamates of which are water-soluble, the improvement which comprises causing ammonium carbamate to react with a water-soluble salt of the metal in aqueous solution at a temperature below about 10° C. and thereby precipitating the carbamate of the metal.

1,942,611
POWER HEAD FOR A PUMP
Philip A. Myers, Ashland, Ohio, assignor to The F. E. Myers and Bro. Company, Ashland, Ohio, a corporation of Ohio
Application February 12, 1931, Serial No. 515,364
Renewed November 10, 1933
18 Claims. (Cl. 74—14)



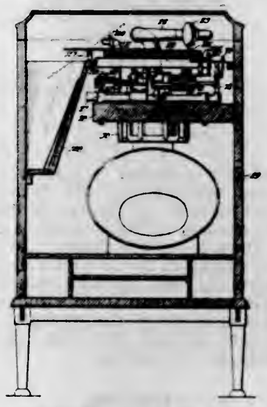
1. In a power head for pumps, a reciprocating member, a rotating member located in a plane of movement of the reciprocating member, said rotating member comprising a shaft supported at each end and having an offset part, and a connecting member between said offset part and the reciprocating member, said connecting member comprising a pair of arms converging from the shaft.

1,942,612
TUBE EXPANDER
Frederick C. Naher, Scotia, N. Y.
Application January 8, 1932. Serial No. 585,459
2 Claims. (Cl. 153—82)



1. A tool for expanding a tubular object comprising a cylindrical housing having a plurality of spaced longitudinal openings formed therein, and a plurality of longitudinal openings formed in said housing out of alignment with the first said openings; rollers held in the first said openings free for lateral movement from positions within said housing to positions partially extending beyond said housing; stop members disposed in the second said openings pivotally connected to said housing and movable from positions within said housing to positions extending beyond said housing; and a rotatable longitudinally movable arbor extending through said housing arranged to engage said rollers for the exertion of lateral pressure thereon and to engage said stop members to move said members toward their outwardly extended positions.

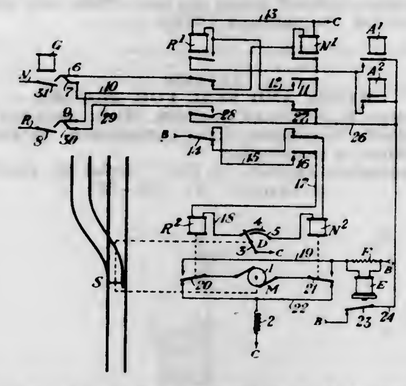
1,942,613
PHONOGRAPH
Martin Nystrom, Chicago, Ill., assignor to United Research Corporation, Long Island City, N. Y., a corporation of Delaware
Application September 27, 1930
Serial No. 484,765
18 Claims. (Cl. 274—10)



7. In a phonograph, in combination, a vertical spindle, a turntable keyed to said spindle and vertically adjustable thereon, a spring-pressed centering pin mounted in the upper end of said spindle and extending above said turntable, a lever supporting said turntable for vertical adjustment, said lever having a cam roller, a rotary cam engaging said roller, means for discharging the records one by one from said turntable, and a pawl and ratchet mechanism operable in timed relation to said last mentioned means for adjusting said cam to elevate said turntable the equivalent of a record each time a record is discharged and for returning said turntable to its lowermost position when the last record is discharged.

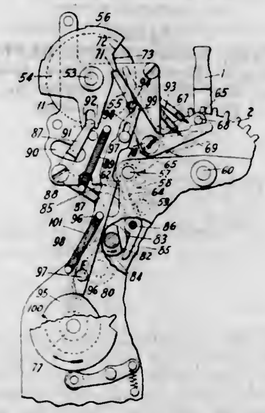
1,942,614
RAILWAY TRAFFIC CONTROLLING APPARATUS
Bernard E. O'Hagan, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 7, 1932. Serial No. 631,977
3 Claims. (Cl. 246—242)

1. In combination, a railway switch, an electric motor for operating said switch, a circuit for operating said motor, a normal and a reverse contactor, means including a front contact of said normal contactor and a back contact of said reverse contactor for energizing said circuit with current of normal polarity to cause said motor to operate said switch to the normal position, means including a front contact of said reverse contactor and a back contact of said normal contactor for energizing said circuit with current of reverse polarity to cause said motor to operate said switch to the reverse position, a first contact governed by said switch which remains closed at all times except when said switch occupies said normal position, a second contact governed by said switch which remains closed at all times except when said switch occupies said reverse position, a positive temperature coefficient resistor included in said motor circuit, an overload relay connected across a portion of said resistor, a normal and a reverse stick relay, means including a front contact of said normal stick relay and a back contact of said reverse stick relay as well as said first contact for energizing said normal contactor, means including a front contact of said reverse stick relay and a back contact of said normal stick relay as well as



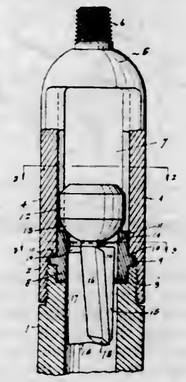
said second contact for energizing said reverse contactor, a holding circuit for said normal stick relay including a front contact of said normal stick relay and a back contact of said reverse stick relay as well as a back contact of said overload relay, a holding circuit for said reverse stick relay including a front contact of said reverse stick relay and a back contact of said normal stick relay as well as said back contact of the overload relay, and means for selectively energizing said normal and said reverse stick relays.

1,942,615
LOCK FOR REGISTER FLASH MECHANISM
William G. Orth and Thomas O'Connor, Dayton, Ohio, assignors to Ohmer Fare Register Company, Dayton, Ohio
Application December 29, 1928. Serial No. 329,133
4 Claims. (Cl. 235—24)



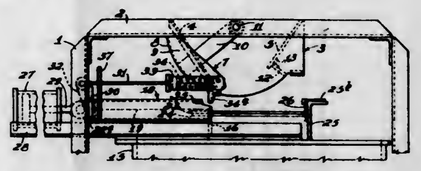
1. In a register, a setting means a two position flash controlled by said setting means, a lever adapted to engage said flash in both of its positions, means to lock said flash through said lever so that it cannot be moved from non-obscuring position during actuation of the register, and means to unlock said flash when the register has completed a registration so that the register can be adjusted to set up a succeeding registration.

1,942,616
VALVE MECHANISM
James W. Sandlin, Humble, Tex.
Application January 26, 1931. Serial No. 511,215
1 Claim. (Cl. 251—129)



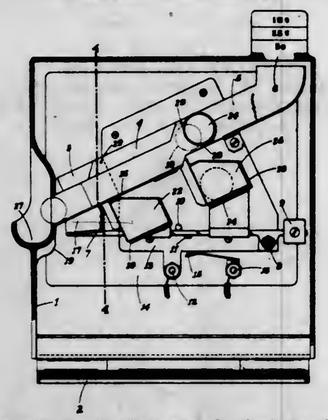
A valve mechanism including a tubular valve body, a cage on the upper end of the body having side passageways for fluid, an annular seat in the body whose upper end is extended upwardly above the lower ends of said passageways, a valve in the cage which cooperates with said seat, and wings depending from the valve and having correspondingly inclined side faces and correspondingly inclined upper and lower end faces, the former of which end faces are spaced from the valve.

1,942,617
GATE CONSTRUCTION
Alexis Saurbrey, Pittsburgh, Pa.
Application December 6, 1932. Serial No. 645,915
17 Claims. (Cl. 214—17)



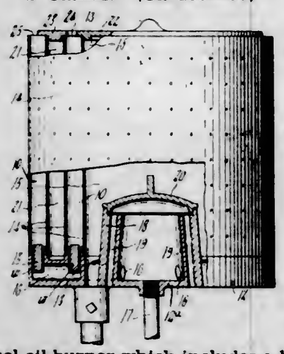
1. An intermittent feeding apparatus comprising a pair of containers with openings arranged one above the other, a gate for each opening mounted for movement transversely thereof in the same general direction both in opening and closing, means for moving one of the gates back and forth between open and closed position, and lost motion connections between the gates so that the movement of the one in one direction moves the other in the same direction arranged so that the beginning of the opening movement of the upper gate is delayed until the lower gate is partially opened and the final closing movement of the lower gate is delayed until the upper gate is closed.

1,942,618
COIN CONTROLLED SWITCH
Leslie E. Scott and Ernest A. Smith, San Jose, Calif.
Application November 6, 1931. Serial No. 573,328
1 Claim. (Cl. 194—9)



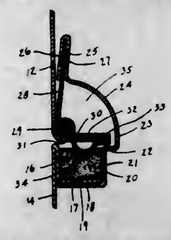
In a coin controlled switch that combination which comprises a pivoted and weighted lever, a switch, means operable by the overbalancing of the lever to close the switch, a fixed independent inclined coin chute above the lever and provided with a bottom slot, a coin cup into which the slot opens such cup including four walls, the front and one side wall of the cup being fixed on the chute, and the rear and other side wall and the bottom of the cup being fixed on the lever, whereby when the lever is overbalanced the respective fixed walls will move apart and allow a coin in the cup to discharge therefrom.

1,942,619
FUEL OIL BURNER
Frank K. Sparling, New Bedford, Mass.
Application January 16, 1932. Serial No. 587,041
2 Claims. (Cl. 158—87)



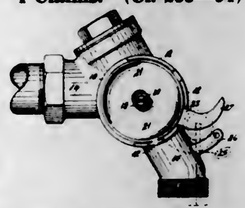
1. A fuel oil burner which includes a horizontal base having spaced annular concentric wick-containing grooves, a central aerating and premixing chamber comprising a bottom formed by the central portion of the base, an annular tapered wall upstanding from the center of the base and decreasing in diameter from its lower to its upper end, said wall being provided with air conduits having intake ends in the under side of the base and outlet ends terminating adjacent its upper end, a cover closing said upper end and formed to inwardly and downwardly deflect air currents admitted through said air conduits; an oil supply pipe admitting oil to the bottom of the aerating chamber; radial distributing conduits connecting the bottom portion of the aerating chamber with said annular grooves and cooperating with said grooves to form air passages through said base; and perforated concentric annular walls forming spaced combustion chambers above and communicating with said annular grooves, the inner wall forming also the wall of a central heating chamber above the base center and surrounding the aerating chamber.

1,942,620
HINGE AND SEAL FOR TRUNKS
George W. Stallings, Jackson, Mich., assignor to Watts Morehouse Mfg. Corporation, Jackson, Mich., a corporation
Application January 16, 1932. Serial No. 586,995
4 Claims. (Cl. 190—28)



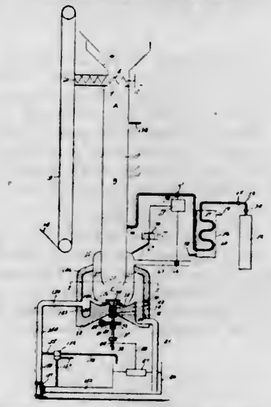
1. In a trunk or the like, the combination with a pair of adjacent cover and side wall members, one of said members being tiltable with respect to the other, a laterally offset portion including a reversely bent sealing edge portion carried by one of the members and extending inwardly into the trunk, a channel forming portion offset inwardly and carried by the other member, a cushion strip in said channel having an exposed surface of considerable width adapted for sealing engagement by the bent sealing edge, and a multiple leaf type hinge construction within the trunk connecting said members, said hinge construction having one leaf portion supported by the innermost portion of the channel portion and the other leaf by the first mentioned offset portion.

1,942,621
ROTARY REGISTERING DEVICE
James C. Thompson, Perry, Iowa
Application May 22, 1931. Serial No. 539,241
4 Claims. (Cl. 235—94)
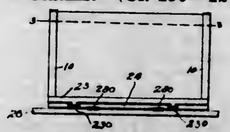


1. A tally device comprising a fixed base element, a wheel rotatably carried by said base element, indicia uniformly spaced circumferentially of said wheel, means on said base element cooperating with said wheel to expose but one set of indicia at a time, a trip bar pivotally mounted on and arranged for limited arcuate travel relative to said base element, ratchet teeth internally and circumferentially of said wheel, a pawl pivotally carried by said trip bar in operative relation with said ratchet teeth, means carried by said base and engaging said teeth to limit retrograde travel of said wheel, and a single spring engaging between said pawl and said limiting means to hold both the latter in engagement with said teeth and the trip bar adjacent one limit of its arcuate travel.

1,942,622
PAPER MANUFACTURE
John Traquair and Francis G. Rawling, Chillicothe, Ohio, assignor, by mesne assignments, to The Mead Corporation, Dayton, Ohio, a corporation of Ohio
Application April 27, 1928. Serial No. 273,242
25 Claims. (Cl. 8—2)



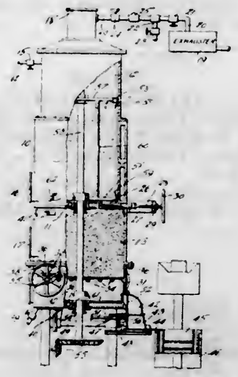
1. The method in the manufacture of pulp, which comprises continuously moving dewatered fibrous material and a continuously maintained gaseous chlorinating agent relatively to each other through a treating chamber, and continuously washing out the excess of the gaseous chlorinating agent from the treated material prior to the discharge of the treated material from the treating chamber.

1,942,623
COMBINATION FURNITURE
Jacob Clayton Tridle, Fresno, Calif.
Application June 16, 1930. Serial No. 461,391
2 Claims. (Cl. 190—12)



1. In combination two bed rails joined a spaced distance apart by cross bars adjacent to the ends of said rails, a cross section of either of said rails being in the form of a T having the stem thereof hollow, each of said rails being formed of a plurality of sections, hinge means connecting said sections, said hinge means being adapted to form each of said rails into an approximately straight line, or in a quadrangle, said quadrangles being spaced apart on parallel planes by the cross bars, and adapted to form a box form, a bottom member and side members formed to fit within the periphery of the angular recess formed inside the box form by said T shaped rails, on the bottom and sides of said box form, and end members formed to fit within the periphery of the angular recess on the outside of the ends of said box forms, legs attached to the bottom, side, and end members adapting them as tables and stools.

1,942,624
COOKER
Charles B. Upton, Piqua, Ohio
Application October 5, 1931. Serial No. 567,072
10 Claims. (Cl. 87—6)

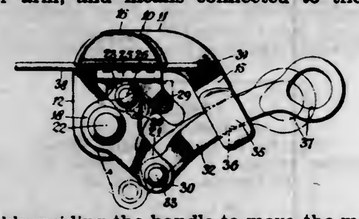


1. An improved cooker and rendering device for oleaginous and like materials comprising a plurality of chambers arranged in a superposed relation to one another, a gate between adjacent chambers by which the products to be rendered may descend from chamber to chamber, means for cooking said products in the upper chamber, a grille-like partition extending transversely across the lowermost chamber and spaced above the bottom thereof for dividing that chamber into a major holding compartment in the upper part thereof and a minor drainage compartment in the lower part thereof, whereby free liquid from the products held in the holding compartment may drain into the lower compartment, a conduit connected to said drainage compartment for removing the liquids from the lower compartment, an agitator in the cooking chamber and another in the lower compartment below said partition, said lower compartment having a delivery opening connected thereto by which any solids contained therein may be removed, said grille-like partition being selectively operable to pass said products from the upper compartment to the lower compartment in the lowermost chamber, from which said products may be removed in measured fractional batches, and means accessible from outside the lower chamber for operating said partition to pass said products.

1,942,625
WIRE GRIP
Joseph P. Whalan and Louis T. Harkness, Jamestown, N. Y., assignors to Crescent Tool Company, Jamestown, N. Y.
Application August 15, 1933. Serial No. 685,292
6 Claims. (Cl. 24—132)

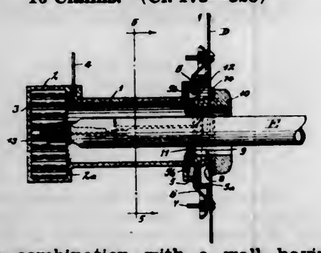
1. A wire grip comprising a body having a stationary jaw adjacent one extremity thereof, a lever having a pair of arms pivoted to the body at a location spaced from the jaw, a movable jaw carried by one of the arms in opposed relation to

the stationary jaw, a handle connected to the other arm, and means connected to the body



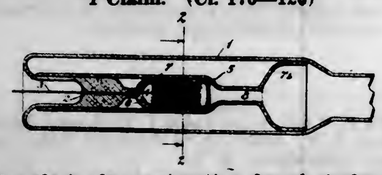
slidably guiding the handle to move the movable jaw toward the stationary jaw.

1,942,626
ILLUMINATED SIGN
Roy R. Wiley, Wallace K. Wiley, and Harry J. Cudney, Buffalo, N. Y., assignors to Flexlume Corporation, Tonawanda, N. Y., a corporation of New York
Application July 18, 1928. Serial No. 293,565
16 Claims. (Cl. 173—328)



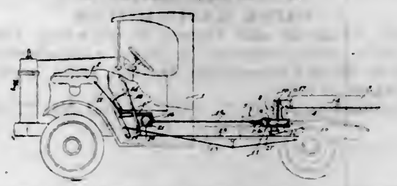
1. The combination with a wall having an opening and an electroluminescent tube having an angularly extended electrode carrying terminal portion for insertion through said opening, the latter being of substantially greater diameter than said terminal portion, of a hollow member secured to the inner face of said wall, and alined with said opening, said member also being of substantially greater diameter than said terminal portion, a power line terminal chamber supported at the end of said hollow member, remote from said wall and formed with an inwardly extending shoulder, and a compressible power line terminal normally expanded in said chamber with its ends located behind said shoulder.

1,942,627
ELECTRODE FOR LUMINESCENT TUBES
Roy R. Wiley and Alfred L. Brandt, Sr., Buffalo, N. Y., assignors to Flexlume Corporation, Tonawanda, N. Y., a corporation of New York
Application March 5, 1929. Serial No. 344,156
1 Claim. (Cl. 176—126)



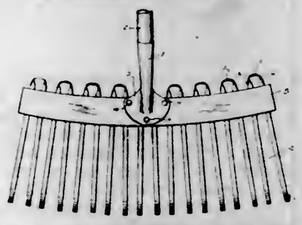
An electrode construction for electroluminescent tubes comprising in combination with such a tube, an electrode arranged within said tube, a hollow body within which said electrode is supported, a lead-in wire connected to said electrode and extending through a wall of said body, and a sleeve fitting over said body and having a cup-shaped end extending forwardly of said body in contact with the walls of said tube, the portion of said sleeve extending between said body and said cup-shaped end being of reduced diameter to provide a restricted passage connecting the interior of the body to the tube proper.

1,942,628
TRACTOR BRAKE SYSTEM
Sidney B. Winn, Lapeer, Mich.
Application May 29, 1930. Serial No. 456,949
10 Claims. (Cl. 188—3)



2. The combination with a tractor provided with a king pin having a cylinder formed on its lower end and a trailer having brakes adapted to be applied by a push pin received in said king pin, of a piston formed on said push pin and received in said cylinder, and a source of suction connected to said cylinder and adapted to effect movement of said piston to apply said brakes.

1,942,629
BROOM RAKE
Winthrop Withington, Cleveland, Ohio, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio
Application September 9, 1930. Serial No. 480,676
19 Claims. (Cl. 55—10)

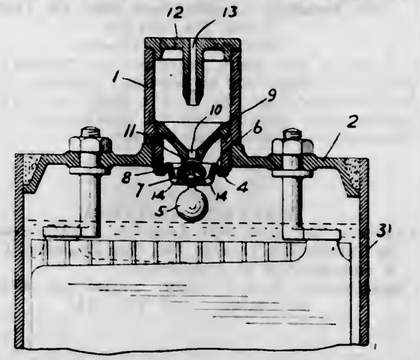


4. A broom rake comprising a handle, a crosshead at an end thereof and supported thereby, and a plurality of flat spring tines projected forwardly in pairs from the head in laterally spaced substantially coplanar generally parallel relation, and spring means formed from the flat material of the tines associated with each pair of tines resiliently resisting lateral displacement of one tine of the pair relative to the other.

17. A one-piece broom rake tine composed of flat spring material generally of hairpin form comprising a pair of flat coplanar resilient forwardly extending tine prongs integrally united at their rearward ends by a resilient yoke portion of the tine disposed out of the plane of the prongs and resiliently constraining the prongs against relative lateral displacement.

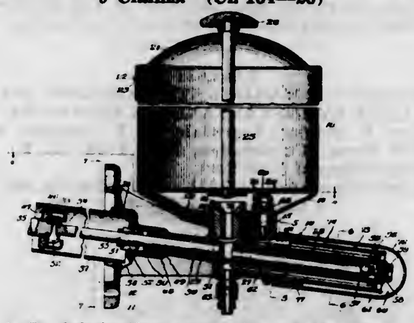
1,942,630
VENT PLUG FOR A CONTAINER CONTAINING A LIQUID
Joseph Lester Woodbridge, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application May 26, 1931. Serial No. 540,086
5 Claims. (Cl. 220—44)

1. In a non-spill vent plug for a closed container containing liquid, a valve seat defining an orifice opening from the vent plug into the container, an annular supporting ledge below the valve seat, a weighted member having an annular lip adapted to be supported on said ledge and having a centrally located supporting pin and having an opening therein providing a drain be-



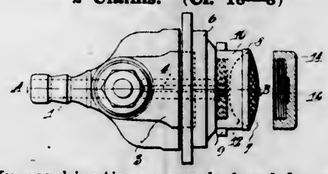
neath said valve seat when said container is in normal position, and a valve member supported on said pin normally out of contact with the valve seat and adapted to be brought into contact therewith by the rocking of the weighted member on the supporting ledge caused by the tilting of the container.

1,942,631
LUBRICATING APPARATUS
Oscar U. Zerk, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a corporation of Delaware
Application May 19, 1930. Serial No. 453,493
9 Claims. (Cl. 184—28)



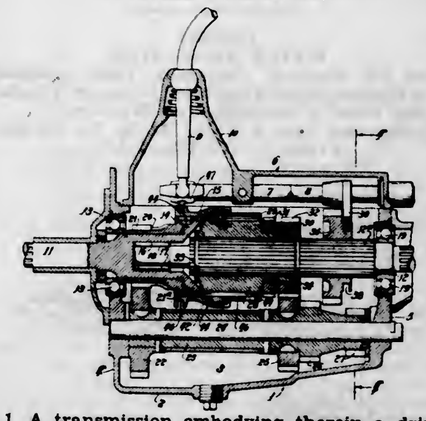
1. In lubricating apparatus of the class described, a casting having a supporting bracket and a pump cylinder formed in a part of said casting, a reservoir mounted on said casting, a passageway connecting said cylinder with said reservoir, a removable cap surrounding the discharge end of said cylinder and threadedly engaged with said casting, said cap affording an annular chamber between itself and the discharge end of said cylinder, a member providing a passageway connecting the upper end of said chamber with said reservoir and having a portion of small cross section forming a high resistance to the flow of lubricant therethrough but offering slight resistance to the flow of air therethrough, a second passageway in said casting communicating with said annular chamber at a point near the bottom thereof, and a cylindrical strainer located in said annular chamber and controlling communication between said annular chamber and the two passageways communicating therewith.

1,942,632
NOZZLE-HEAD FOR THE ARTIFICIAL SILK STRETCH-SPINNING PROCESS
Waldemar zur Löwen, Wuppertal-Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y., a corporation of Delaware
Application July 3, 1931, Serial No. 548,687, and in Germany July 26, 1930
2 Claims. (Cl. 18—8)



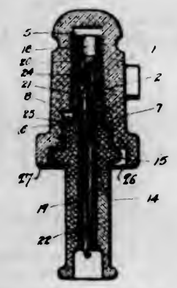
1. In combination a nozzle head for extruding artificial products, comprising, a unit for supplying the solution to be extruded, a unit detachably secured to said first unit, said second unit comprising a disc perforated to form the artificial products, and a third unit which may be substituted for said second unit to stop the flow of the solution when said second unit is removed.

1,942,633
TRANSMISSION
Clarence H. Barton, Indianapolis, Ind., assignor to L. G. S. Devices Corporation, Indianapolis, Ind., a corporation of Indiana
Application December 22, 1930
Serial No. 503,926
11 Claims. (Cl. 74—59)



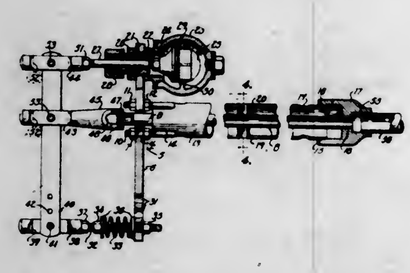
1. A transmission embodying therein a driving shaft, a driven shaft and a jack shaft having gears thereon, a toothed member fixed with respect to the driving shaft and a gear loose thereon and in constant mesh with one of the gears on the jack shaft, a member fixed with respect to the driven shaft, and a longitudinally shiftable member operable to provide either a direct driving connection between said driving shaft and the member fixed on the driven shaft through the toothed member fixed on the driving shaft or an indirect driving connection between said driving shaft and said member fixed on the driven shaft through the gear loose on the driving shaft, said last mentioned gear being inoperative to drive the jack shaft when the member on the driven shaft is in direct connection with the drive shaft through said toothed member fixed thereon.

1,942,634
FUSE SWITCH
Thomas B. Bash, Kansas City, Mo.
Application March 16, 1925. Serial No. 15,787
3 Claims. (Cl. 200—127)



3. In a fuse switch of plug type, a tubular element having open ends and comprising a plug provided with paired external contacts, and a handle, a cartridge including a fusible element, disposed in the plug and handle, the cartridge having a metal cap at its inner end, the fusible element being electrically connected at one end with one of the contacts on the plug, and at its opposite end to said cap, and means extending through a wall of the plug, adapted to position the cartridge and connect said cap to another plug contact.

1,942,635
WATER REGULATOR
Fred Lee Badgett, Chickasha, Okla., assignor to Badgett Steam Lubricator Company, Chickasha, Okla., a corporation of Oklahoma
Application June 8, 1931. Serial No. 542,844
3 Claims. (Cl. 122—451.1)

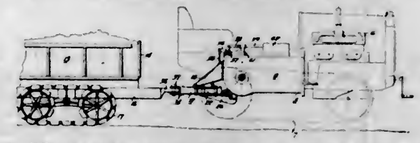


1. In a water regulator for boilers, a supporting plate, an inclined casing having one end adjustably secured to said plate to vary the degree of inclination of the casing, a thermostat tube fixed to the opposite end of the casing and having a free end extending through said plate, a conduit connecting the fixed end of the tube with the boiler, a steam line communicating with the free end of said tube and boiler, a water supply line leading to the boiler, a valve interposed in said water line and supporting said plate, and a compound lever arm connected to the plate, to the free end of said tube and to the valve for operating the valve in response to expansion and contraction of the tube.

1,942,636
LUBRICATING OIL
Harry T. Bennett and Le Roy G. Story, Tulsa, Okla., assignors, by direct and mesne assignments, to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware
No Drawing. Application July 23, 1928
Serial No. 294,935
2 Claims. (Cl. 87—9)

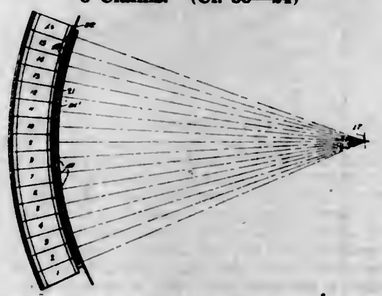
1. A low pour point lubricant for engines comprising a lubricating oil having a viscosity of 100 to 1000 seconds at 100° F., 5 to 15 percent of a low boiling point hydrocarbon oil, and not more than 10 percent of aluminum stearate.

1,942,637
TRACTOR CONTROL
Clarence Leo Best, San Leandro, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application June 2, 1930. Serial No. 458,957
20 Claims. (Cl. 180—14)



1. The combination with a motor vehicle having a variable ratio power transmission between the source of power and the traction devices, of a swingable drawbar comprising, two aligned parts resiliently connected together, the first part having a draft connection, and the second part having a pivot connection with said motor vehicle, and an operative connection between said first part of said drawbar and said transmission to enable said drawbar in any position to control said transmission.

1,942,638
PROCESS OF MAKING STEREOSCOPIC PICTURES BY INSTANTANEOUS EXPOSURE
Ernest E. Draper, Scarsdale, N. Y., assignor to The Perser Corporation, New York, N. Y., a corporation of New York
Application April 24, 1931. Serial No. 532,523
8 Claims. (Cl. 88—24)



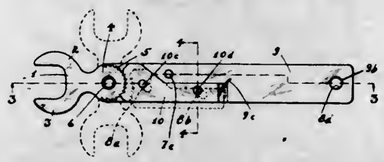
1. The process of making stereoscopic pictures comprising arranging a multiplicity of cameras having matched lenses of the same focal length in an arc of a circle about the object to be photographed, simultaneously exposing a sensitized plate in each camera, developing said negatives, then projecting them consecutively onto a sensitized plate through a line screen moving the line screen for the exposure of each plate, maintaining the said plate parallel to each negative during the projection.

1,942,639
STOCK RACK
Max L. Engler and Walter J. Breth, Akron, Ohio, assignors to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 19, 1932. Serial No. 623,388
1 Claim. (Cl. 154—14)



The herein described method of handling rubberized cord fabric strips in the manufacture of pneumatic tire casings which comprises draping the individual fabric strips over the top edges of supporting plates with the opposite ends of the strips against opposite faces of the plates, interposing dividing plates between the supporting plates, supporting the plates in a stack with the individual plates resting on their lower edges and having a limited rocking movement about their lower edges, and removing the strips as required for tire building operations one at a time from the supporting plates.

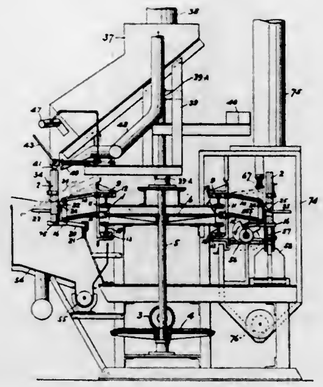
1,942,640
WRENCH
Frank W. Fromme, Cincinnati, Ohio
Application March 9, 1933. Serial No. 660,153
1 Claim. (Cl. 81—59)



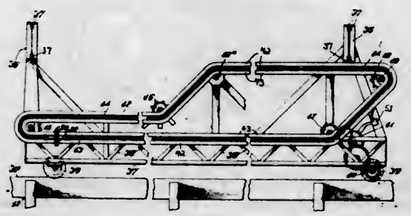
A wrench having a handle, a jaw-head pivotally mounted thereon, ratchet teeth on said jaw-head, an elongated slide clutch having an enlarged end provided with teeth adapted to engage the teeth of said jaw-head and having a beveled surface on said enlarged end and a cooperating beveled surface on said handle, slots in said handle disposed obliquely of its length, studs on said clutch extending into said slots whereby when said clutch is moved longitudinally said studs and said bevels permit the easy and ready adjustment of the respective clutch teeth for the purpose specified.

1,942,641
STORAGE BATTERY FILLING MACHINE
Charles D. Galloway, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application March 11, 1931. Serial No. 521,710
12 Claims. (Cl. 226—1)

1. A plate filling machine including a jig enclosing the plates to be filled, means for lifting said jig and causing it to drop, and an independently mounted, non-resilient anvil for arresting the drop of said jig suddenly.



1,942,642
RACE TRACK EQUIPMENT
William E. Golden, Chicago, Ill.
Application May 3, 1930. Serial No. 449,602
6 Claims. (Cl. 119—15.5)

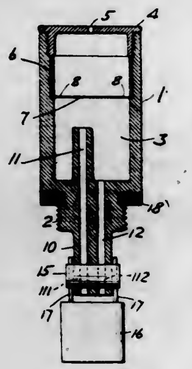


1. A starting device for race tracks, comprising in combination a flexible tape, supports at opposite sides of the track to which the ends of said tape are connected, and endless chains at opposite sides of the track for moving said supports forwardly along the track opposite each other for keeping the tape in transverse position with respect to the track and for moving the supports quickly upward out of the way at about the starting point of a race.

1,942,643
VENT PLUG FOR STORAGE BATTERIES
Ernest Graf, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application June 11, 1931. Serial No. 543,608
2 Claims. (Cl. 136—178)

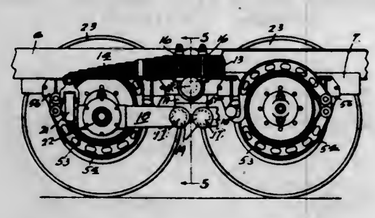
1. A vent plug for storage batteries having a chamber therein, an outlet vent from said chamber, a cell vent leading to said chamber and entering it above the bottom thereof, a baffle in said chamber between said outlet vent and said cell vent, a drain from said chamber, a valve of

rigid material controlling said cell vent and said drain, and a weight mounted on said valve and



movable with said valve pivotally to actuate it by gravity.

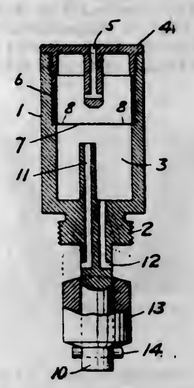
1,942,644
WHEEL SUSPENSION FOR VEHICLES
Lewis E. Holman, Oakland, Calif.
Application December 3, 1930. Serial No. 499,719
1 Claim. (Cl. 280—124)



In a road vehicle, a frame, an auxiliary inner frame spacedly secured to the first frame, brackets supported on and between the opposite sides of the said frames, a fulcrum member extended outwardly from each bracket, an equalizing bar fulcrumed intermediate its ends on each fulcrum member, a pair of arms fulcrumed on the bracket below the said fulcrum member, the arms in each pair extending in opposite directions and being rockable toward and away from the plane of the frame; means to connect the free ends of the arms to the respective ends of the bar; and a wheel rotatably mounted on each arm between the free end and the fulcrum of the latter.

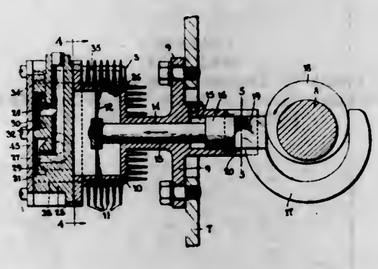
1,942,645
VENT PLUG FOR STORAGE BATTERIES
Ernest Graf, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application June 11, 1931. Serial No. 543,669
3 Claims. (Cl. 136—178)

1. A vent plug for a storage battery, said vent plug having a chamber therein, an outlet vent projecting downward into said chamber, a cell vent projecting upward into said chamber above the level of the bottom of said chamber, a baffle in said chamber between said cell vent and said outlet vent, a drain from said chamber to said battery separate from said cell vent, and a reciprocating valve actuated by gravity simultaneously



closing said cell vent and said drain when the battery is tipped.

1,942,646
PUMP
Henry Hueber, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application July 2, 1930. Serial No. 465,418
7 Claims. (Cl. 103—42)

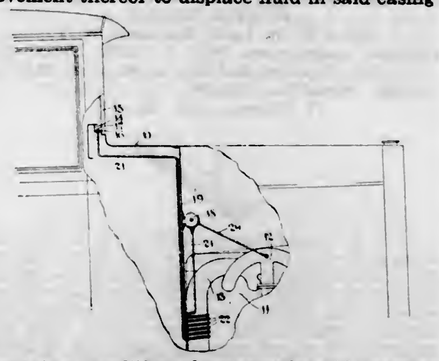


1. A fuel pump having a cylinder with inlet and outlet passages, a piston in said cylinder, and means for reciprocating the piston within the cylinder, said piston comprising a resilient plate, whereby when abnormally resisted by fluid in the cylinder the piston may flex to by-pass the fluid between the periphery of the piston and the cylinder walls.

1,942,647
WINDSHIELD HEATER
Henry Hueber, Buffalo, and Erwin C. Horton, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application October 1, 1930. Serial No. 485,772
4 Claims. (Cl. 20—40.5)

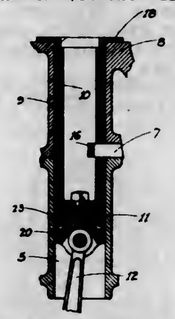
1. In combination with a vehicle having an internal combustion engine and a windshield, said engine being provided with an intake manifold, a pressure transfer device, a suction line connecting said device and said intake manifold, a pressure line extending from said transfer device to said windshield, and heating means associated with said pressure line, said device comprising a casing, means in said casing movable relative thereto by suction maintaining in said

suction line, said means being effective upon movement thereof to displace fluid in said casing



to create a condition of pressure in said pressure line.

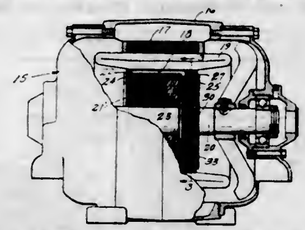
1,942,648
PISTON VALVE
William S. Jensen, Chico, Calif.
Application January 21, 1933. Serial No. 652,831
3 Claims. (Cl. 123—188)



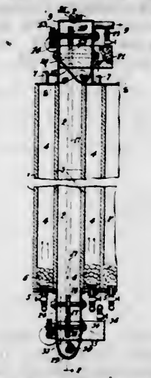
1. In an internal combustion engine having a cylinder, a control valve structure comprising a valve chamber extending lengthwise of the cylinder to one side of the same, there being a passage between the chamber and cylinder, a fixed sleeve depending into the chamber in spaced relation to the walls thereof and having a port alined with said passage, a conduit for gas connected to the outer end of the sleeve, a pair of sleeves slidably engaging and between which the fixed sleeve projects, said pair of sleeves having alined ports to aline with the fixed valve port when said pair of sleeves occupy a certain position, and means applied to said pair of sleeves to reciprocate the same simultaneously.

1,942,649
LINE-START INDUCTION MOTOR
Carl E. Johnson, Pasadena, Calif., assignor to Sterling Electric Motors, Inc., Los Angeles, Calif., a corporation of California
Application August 18, 1930. Serial No. 475,986
10 Claims. (Cl. 172—120)

1. In a dynamo-electric machine, the combination of: a stationary member; a movable member; a primary winding on one of said members for sending flux through the other of said members; a winding on the other of said members and in which said flux induces a voltage; and an expansible magnetic body movable relative to both of said members and from a position close to said one of said members to a position a distance from said one of said members for short-circuiting a portion of the flux produced by said primary winding, which portion of said flux would otherwise pass through said secondary winding.



1,942,650
APPARATUS FOR COKING BITUMINOUS LIQUIDS AND THE LIKE
Lewis Cass Karrick, New York, N. Y.
Application April 11, 1930. Serial No. 443,520
6 Claims. (Cl. 202—117)

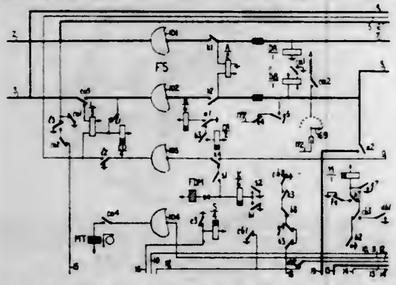


1. A coking retort including a reservoir adapted to hold a liquid fuel, a continuous metallic support movable in a path which dips into said reservoir to thereby receive a coating of the liquid fuel, the path of said support including a flight adjacent to but out of contact with walls defining the area of the retort, at least one of said walls of the retort being adapted to be heated to thereby effect a radiant heating of the liquid fuel carried by the support for distilling the same, and means for heating said wall.

1,942,651
TELEPHONE SYSTEM
Frank Kessler and Herbert Stanley Deyes, Liverpool, and Jack Scowcroft, Bolton, England, assignors to Associated Telephone and Telegraph Company, Chicago, Ill., a corporation of Delaware
Application December 5, 1929, Serial No. 411,831, and in Great Britain December 7, 1928. Renewed October 26, 1931
61 Claims. (Cl. 179—18)

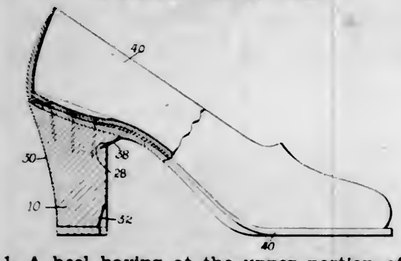
1. In a multi-exchange telephone system, a plurality of exchanges, register senders located in one of said exchanges, means including trunk lines interconnecting said exchanges whereby any one of said register senders may be taken into use from any exchange, automatic switches in each of said exchanges arranged to respond to impulses to set up desired connections, and

means for operating a register sender to transmit impulses to automatic switches in the same exchange and to transmit impulses to the auto-



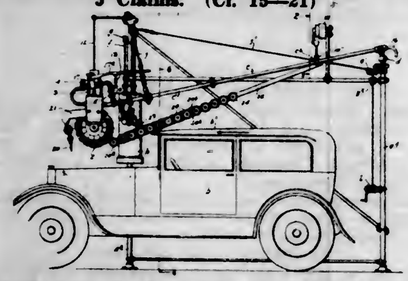
matic switches in any other exchange independent of any automatic switches in the same exchange with said register senders.

1,942,652
SHOE
John T. Kershaw, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application August 28, 1929. Serial No. 388,974
14 Claims. (Cl. 36—24.5)



1. A heel having at the upper portion of its breast a forwardly extending lip formed with a flat lower face sloping downwardly and rearwardly from the front edge of the lip, and a groove extending transversely across the heel breast below said face for the reception of a marginal portion of a covering to be applied to the heel breast.

1,942,653
AUTO TOP WASHING MACHINE
Olin M. Kiggins, Portland, Oreg.
Application June 9, 1930. Serial No. 459,995
5 Claims. (Cl. 15—21)



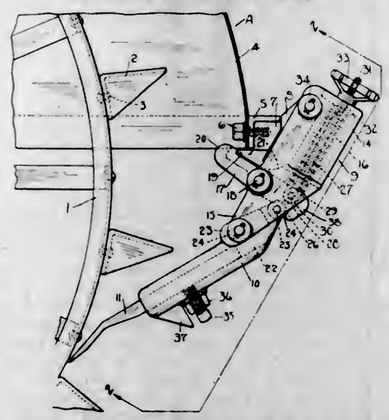
5. In a mechanism of the character described, a vertically movable frame supported above an automobile runway, a driven brush rotatably mounted at one end of the frame crosswise of the runway, a guide secured to the under side of the frame and adapted to carry the brush on to the automobile top.

1,942,654
APPARATUS FOR MAKING ABSORBENT DENTAL ROLLS
John W. B. Ladd, Katonah, N. Y.
Original application May 2, 1928, Serial No. 274,594. Divided and this application May 14, 1929. Serial No. 362,986
21 Claims. (Cl. 93—1)



1. In an apparatus for producing a solid roll from a sheet of material of a soft, clingy nature, the combination of a body having a non-slipping surface on which the sheet is supported with an edge resting flatwise thereon, and a second body having a non-slipping surface which, when advanced toward and engaging said edge, picks up and turns said edge rearwardly, rolls the sheet upon itself, and completes the formation of the roll, said bodies being arranged for relative movement, one from the other, as the diameter of the roll increases.

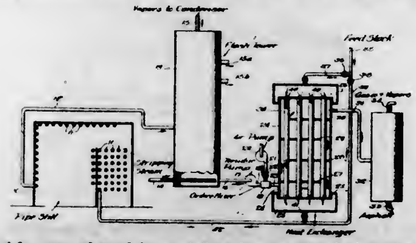
1,942,655
TRACTOR
Elmer McCormick, Waterloo, and Lewis A. Dailey, Cedar Falls, Iowa, assignors to John Deere Tractor Company, Waterloo, Iowa, a corporation of Iowa
Application November 1, 1929. Serial No. 403,980
22 Claims. (Cl. 280—158)



4. A wheel scraper of the class described, comprising a scraper, pivotally supported means carrying said scraper, means carried by the pivotally supported means for holding said supporting means and said scraper in operative position, and hand wheel and threaded link means connected with said holding means for manually releasing said holding means.

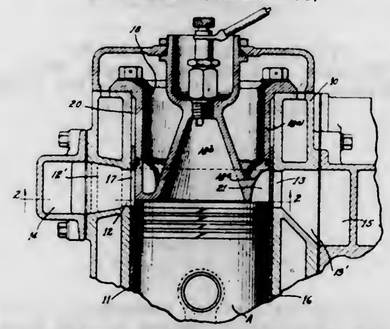
1,942,656
ASPHALT FROM BLOWN PETROLEUM RESIDUUMS
Claude P. McNeil, Whiting, Ind., assignor to The Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 9, 1929. Serial No. 412,625
2 Claims. (Cl. 196—74)

2. The method of preparing blown asphalt from petroleum which contains asphaltic components, which method comprises distilling said petroleum in a distillation zone to separate overhead fractions and to produce a hot residuum, continuously mixing air with the hot residuum, continuously passing the mixture through a reaction zone wherein heat is liberated by the exothermic reaction of the air with the hot



residuum, absorbing at least a part of the liberated heat by passing petroleum in heat exchange relation to said reaction zone whereby the petroleum is heated and the temperature of the air-residuum mixture is controlled, and passing the heated petroleum to the distillation zone whereby the heat which it has absorbed from the air-residuum mixture may be utilized.

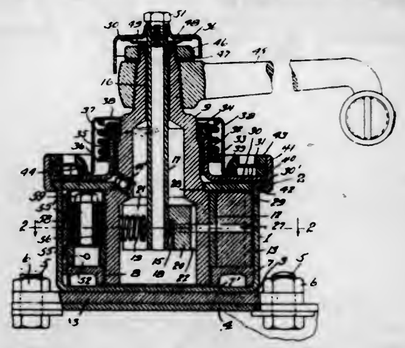
1,942,657
INTERNAL COMBUSTION ENGINE
Andre J. Meyer, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application May 30, 1930. Serial No. 457,625
31 Claims. (Cl. 123—75)



1. In a sleeve valve engine, a cylinder structure provided with fuel intake and exhaust ports, sleeve valve means for said cylinder having ports cooperating with the cylinder ports, a cylinder head structure having a portion depending within said cylinder and spaced from the walls thereof to form a sleeve pocket, said depending cylinder head portion and sleeve valve means cooperating to form bounding walls of a combustion chamber, and one of said bounding walls provided with fuel mixture conducting means associated with said engine means for deflecting a portion of the incoming fuel mixture to flow in a direction opposite to the flow of the remainder of the fuel mixture.

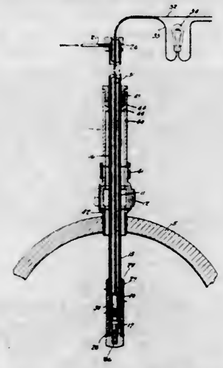
1,942,658
HYDRAULIC SHOCK ABSORBER
Courtney N. Mitchell, Cleveland, Ohio
Application April 19, 1928. Serial No. 271,352
46 Claims. (Cl. 188—89)

1. In a shock absorber, a casing, an axially disposed shaft journaled in said casing, a double acting piston pivotally connected to said shaft on an axis spaced from but parallel with the



axis of said shaft, a cover for said casing and means for flexing said cover inwardly to vary the clearance between the cover and piston.

1,942,659
DIFFUSER
William J. Orchard, Maplewood, N. J., assignor to Wallace & Tiernan Company, Inc., Belleville, N. J., a corporation of New York
Application May 27, 1931. Serial No. 540,490
11 Claims. (Cl. 210—28)

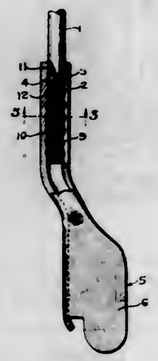


1. Apparatus for discharging gas into liquid, comprising a diffuser to be immersed in the liquid, and means for supplying heat to the diffuser adapted to maintain the diffuser at a temperature higher than that of the surrounding liquid.

1,942,660
PROCESS FOR THE PREPARATION OF GLUCONIC ACID AND ITS LACTONES
Richard Pasternack, Brooklyn, and William Ralph Giles, Richmond Hill, N. Y., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a corporation of New Jersey
No Drawing. Application June 6, 1932
Serial No. 615,760
17 Claims. (Cl. 260—112)

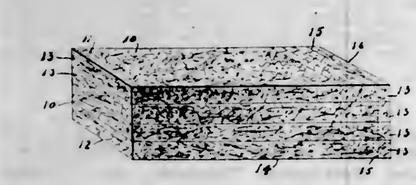
1. The process comprising forming an oversaturated aqueous gluconic acid solution and effecting crystallization within temperature ranges so selected as to determine the product of crystallization by excluding transition temperatures.

1,942,661
WINDSHIELD CLEANER ARM
William Paulus, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application May 25, 1931. Serial No. 539,914
1 Claim. (Cl. 287—109)



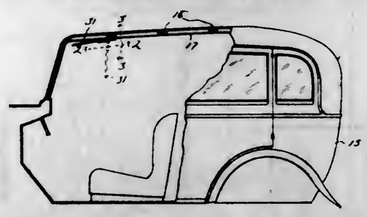
In a sectional windshield wiper arm, a rod having a knurled portion at one terminal thereof, said knurled portion constituting a plurality of pyramid-like points directed substantially radially of the rod to a greater distance from the axis of the rod than the unknurled surface of the rod, the bases of the pyramid-like points being disposed a lesser distance from the axis of the rod than the unknurled portions thereof, and a wiper blade carrying member of sheet metal formed with a split sleeve at one end portion, said sleeve embracing and being pressed about said knurled portion and said points projecting through the inner surface of the split sleeve, an end portion of the sleeve fitting about the rod immediately adjacent the knurled portion to determine the projecting depth of the points into the inner surface of the sleeve.

1,942,662
ACOUSTICAL TREATMENT
Maurice C. Rosenblatt, Philadelphia, Pa.
Application March 10, 1928. Serial No. 260,614
5 Claims. (Cl. 20—4)



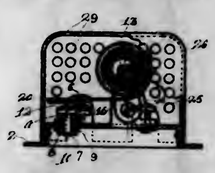
1. A process of acoustically treating surfaces which consists in forming laminations of composition fiber boards, with their flat surfaces in contact, connecting adjacent laminations together, cutting strips from the block thus formed, turning the strips sidewise so that the edge surfaces of the laminations are exposed, and disposing the strips on a surface.

1,942,663
ADJUSTABLE VISOR
Walter S. Saunders, Pontiac, Mich., assignor to The American Forging and Socket Company, Pontiac, Mich., a corporation of Michigan
Application June 25, 1931. Serial No. 546,707
2 Claims. (Cl. 296—97)



1. An adjustable visor adapted to be secured in depending position inside a vehicle, comprising a dished supporting member having a transverse channel extending thereacross, a rod traversing and rotatable in the channel and extending therefrom, a visor secured to the rod, a tension plate housed within and substantially concealed by the dished supporting member having an opposed channel portion for cooperation with the first mentioned channel to form a friction bearing for the rod, said tension plate bearing against and retaining the rod therein, means for securing the supporting member to the vehicle with the open face of said dished member against the support, and means for adjusting the friction exerted upon the rod at the bearing formed by the tension plate and dished support.

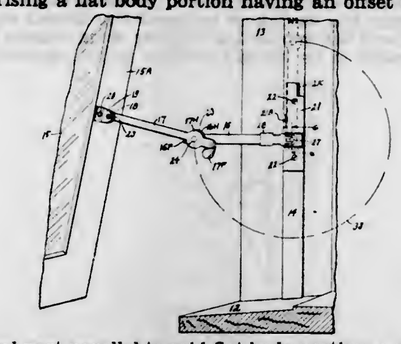
1,942,664
THERMOSTATIC SWITCH
Timothy A. Schaefer, Winegar, Wis.
Application March 2, 1931. Serial No. 519,552
2 Claims. (Cl. 200—139)



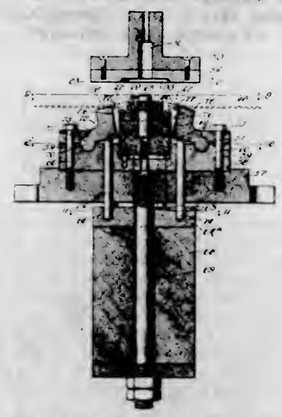
1. A thermostatic switch comprising, a base, a normally fixed contact carried by said base, a swingably adjustable arm, a pivot swingably connecting one portion of said arm to said base, means coacting directly with said pivot and with the adjacent arm portion for holding said arm in an adjusted position relative to said base, a spirally wound thermostatic element having at its outer end a contact portion which is movable toward and away from said fixed contact, a second pivot connecting the inner end of said element to a swingable portion of said arm remote from said first mentioned pivot, and means coacting directly with said second pivot and with the adjacent arm portion for holding said element in an adjusted position relative to said arm.

1,942,665
WINDOW BRACKET
William H. Schmitt, St. Paul, Minn.
Application April 4, 1929. Serial No. 352,572
9 Claims. (Cl. 292—263)

9. In combination with a window bracket for pivotally suspended windows comprising a pair of pivotally connected arms, a stile bracket comprising a flat body portion having an offset central part parallel to said flat body portion, a pivot pin connection between said offset portion and one of said bars.



1,942,666
APPARATUS FOR FORMING BUSHING STRUCTURES
Henry Schwartz, Chicago, Ill., assignor to Barrel Fitting and Seal Corporation of America, Chicago, Ill., a corporation of Illinois
Application March 15, 1928. Serial No. 261,781
11 Claims. (Cl. 153—12)



1. An apparatus for operating on a socket formed in a sheet metal wall to force the sides of said socket into engagement with a bushing having upwardly converging sides and seating in said socket said apparatus comprising a plurality of pivotally mounted segmental jaw members spaced equi-distantly from the central axis of said socket, and means for operating said jaw members, said jaw members having socket engaging faces extending upwardly and inwardly toward said central axis.

1,942,667
STORAGE BATTERY SEPARATOR
Edward W. Smith, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application March 7, 1929. Serial No. 344,990
6 Claims. (Cl. 136—145)

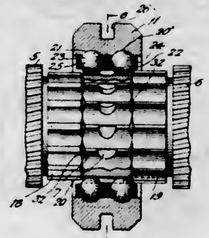
3. A separator for storage batteries which comprises in combination, an element adapted to be interposed between active material of the positive and negative plates of a storage battery and which is decomposable by the oxidizing action of the positive plate and a layer comprising a mixture of sodium silicate and a siliceous powder applied to the surface of said element which is adapted to contact with the active material of the positive plate.



1,942,668
STORAGE BATTERY SEPARATOR
Edward W. Smith, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application April 2, 1929
Serial No. 352,047
3 Claims. (Cl. 136—145)

1. A separator for storage batteries which comprises in combination, an element adapted to be interposed between the active material of the positive and negative plates of a storage battery and which is fibrous and non-oxidizable by the action of the electrolyte or by the oxidizing action of the positive plate, and a mixture of sodium silicate and a siliceous powder which is applied to said element and which has set and hardened out of contact with sulphuric acid.

1,942,669
FREE WHEELING TRANSMISSION CLUTCH
William F. Smith, Poughkeepsie, N. Y.
Application August 24, 1931. Serial No. 558,998
8 Claims. (Cl. 192—48)

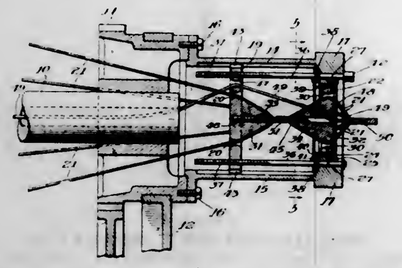


8. An automobile clutch comprising two fluted clutch members positioned side by side, the flutes of a first one of said members having free wheel pockets in one end thereof, and a double groove ball race encircling said first member and adapted for movement toward the other member.

1,942,670
FORMING AND BREAKING HEAD FOR WIRE ROPE STRANDERS AND CLOSERS
William E. Somerville, Coal City, Ill.
Application December 26, 1931
Serial No. 583,349
17 Claims. (Cl. 117—20)

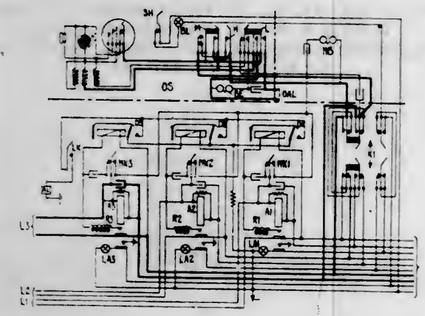
1. A stranding and closing head for shaping a plurality of wires or strands of a stranded wire structure into the approximate form each will assume in the structure, said head comprising guide members through which the strands or wires pass and are maintained separated, said

members being spaced from each other and between which members the individual strands or wires are formed into helices, a core extending across the space intermediate the said members and about which core the strands or wires are



wound, means for advancing the strands or wires, and means for rotatively adjusting said guide members about their axes, one with relation to the other to any desired extent, including a full turn or more.

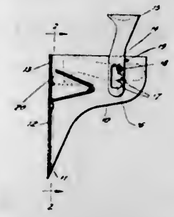
1,942,671
TELEPHONE SYSTEM
Rudolph Frank Stehlik, Chicago, Ill., assignor to Associated Telephone and Telegraph Company, Chicago, Ill., a corporation of Delaware
Application September 4, 1931, Serial No. 561,212, and in Great Britain September 11, 1930
9 Claims. (Cl. 179—27)



1. In a telephone system, a private branch exchange having a plurality of local lines, a manual switchboard, a plurality of keys at said switchboard, one for each local line, and a plurality of trunk lines extending from a main exchange and multipled to each of said keys whereby any local line may be connected to any trunk line by the key associated with the local line.

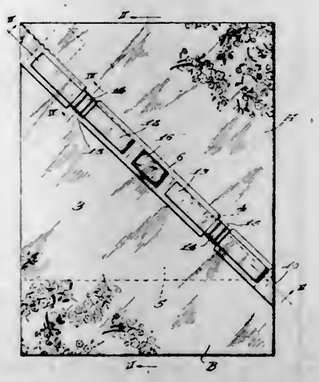
1,942,672
GOLF TEE
Howard Russell Thompson, Des Moines, Iowa
Application June 23, 1931. Serial No. 546,263
3 Claims. (Cl. 273—33)

1. An improved golf tee comprising a body portion sharpened at its lower edge and having side walls slightly spaced apart for easy earth penetration, and having an enlarged cup shaped portion near one end, and a golf ball supporting member having a flat body portion inserted between the said side walls and pivotally supported therein and having an enlarged cup shaped end, said golf ball supporting member being capable of standing in an upright position within said body



portion and also capable of being moved to a horizontal position wholly contained within the body portion, and means for adjustably pivotally supporting the golf ball holder in various positions of elevation above the body portion.

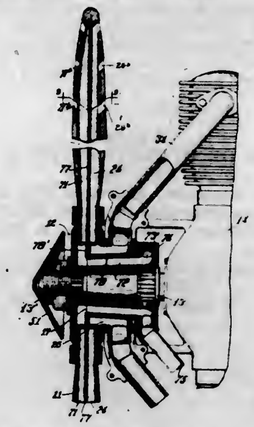
1,942,673
GIFT WRAPPING ENSEMBLE
Charles Weiner, Chicago, Ill., assignor to Chicago Printed String Co., Chicago, Ill., a corporation of Illinois
Application May 3, 1933. Serial No. 669,101
10 Claims. (Cl. 206—46)



6. A method of packaging decorative wrapping paper for gift packages which consists in folding sheets of wrapping paper, inserting one of the folded sheets underneath the top free leaf of another of the folded sheets, and underturning a portion of said top leaf to expose to view a part of said one folded sheet.

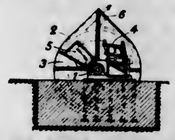
1,942,674
AEROPLANE POWER PLANT
Cameron A. Whitsett, Chicago, Ill.
Application July 15, 1929. Serial No. 378,207
12 Claims. (Cl. 170—172)

1. In combination, an internal combustion aircraft engine, a propeller driven thereby, ports in the blades of said propeller, passageways communicating with certain of said ports, means for conducting intake air from said passageways to the cylinders of said engine, and passageways communicating with other of said ports for dis-



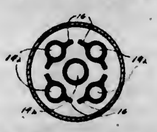
charging the exhaust from said engine through said blades.

1,942,675
WOOD CHIPPING MACHINE
Carl Wigger and Reinold Bömcke, Unna, Germany
Application November 28, 1930, Serial No. 498,792, and in Germany December 2, 1929
5 Claims. (Cl. 83—75)



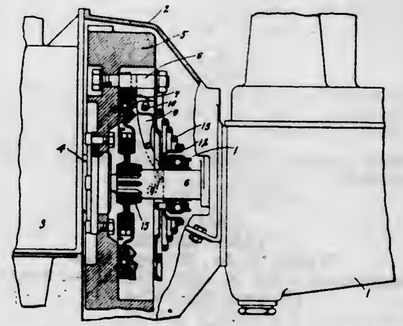
1. A wood chipping machine, comprising in combination a rotary knife carrying disc, a box shaped chute for the material to be chipped leading to said knife carrying disc, upwardly extending almost vertical side walls of said chute and a flat bottom of said chute inclining slightly towards the outer side transversely to the wood feed direction, so that the outer lateral edge of said bottom lies lower than the inner side edge which lies nearer to the centre of said knife carrying disc.

1,942,676
SUPERHEATER
Arthur Williams, Hammond, Ind., assignor to The Superheater Company, New York, N. Y.
Application August 8, 1932. Serial No. 627,909
6 Claims. (Cl. 122—462)



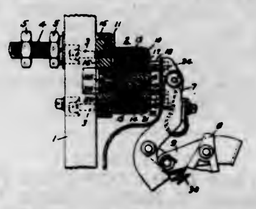
1. In a device of the class described, the combination of a flue, four parallel pipes within the flue arranged in a circle about the longitudinal axis of the flue, and two longitudinal fins on each pipe, the outer edges of the fins of one pipe being substantially in contact with those of the two adjacent tubes, whereby a central space is set apart from the remainder of the flue.

1,942,677
TORQUE ABSORBING DEVICE
Clarence G. Wood, Cleveland, Ohio, assignor of one-half to The Columbia Axle Company, Cleveland, Ohio, a corporation of Ohio
Application February 9, 1928. Serial No. 253,045
1 Claim. (Cl. 192—68)



In a clutch, the combination of a hub adapted to be mounted on a shaft to be driven, a bolt screwed into the periphery of said hub normal to the peripheral surface thereof and extending outwardly therefrom, a clutch ring mounted concentrically with respect to said hub and rotatable relative thereto, a pair of diametrically aligned projections on said ring on opposite sides of the center thereof, a spring secured to said bolt and to one of said projections, and a second spring secured to said bolt and to the other of said projections.

1,942,678
CIRCUIT INTERRUPTER
Walter M. Austin, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application May 20, 1930. Serial No. 453,921.
19 Claims. (Cl. 200—145)



2. Circuit-interrupting means including a plurality of disc-type conducting members, means for causing a plurality of arcs betwen said members in series relation to each other and to the members, a coil having adjacent turns movable into contacting relation for moving said arcs rapidly in the spaces between said members, and means confining each terminal of each of said arc to an annular path.

1,942,679
BRASSIÈRE
Abraham S. Becker, Los Angeles, Calif.
Application July 27, 1932. Serial No. 624,927
6 Claims. (Cl. 2—42)

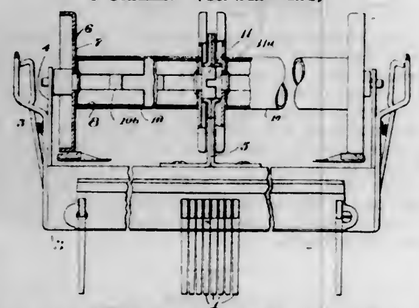
1. In a brassière, a breast receptacle formed with a base section, a lower section secured to said base section, and an upper section secured to said lower section, said lower section being

formed in a plurality of members drawn together substantially to a point at their upper edge to



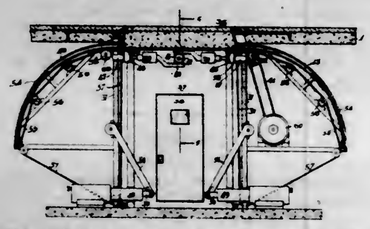
provide vertical fullness to receive the apex of the breast.

1,942,680
YARN SPOOL
Walter Bixby, Boston, Mass.
Application April 10, 1931. Serial No. 529,127
5 Claims. (Cl. 242—124)



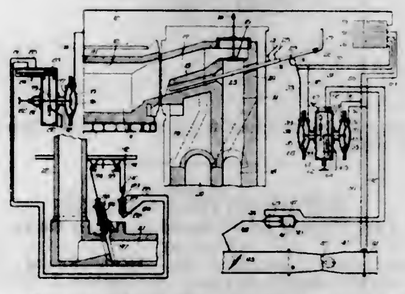
1. A spool embracing in its construction, a tubular barrel, a sheet metal end head, an attaching member having a substantially tubular portion dimensioned to have telescopic engagement with the interior of the barrel for a substantial distance axially of the barrel, journal members for rigidly securing the attaching members coaxially to the end heads, the barrel and the attaching members being provided with releasable positively engaged interlocking means for preventing the withdrawal of the attaching member and its head from the barrel.

1,942,681
TRAP DOOR CONSTRUCTION
Joseph R. Borba, Lathrop, Calif.
Original application September 29, 1930, Serial No. 485,175. Divided and this application March 19, 1932. Serial No. 600,077
6 Claims. (Cl. 43—59)



1. In safety apparatus for banks, a trap door located in the floor of a bank, a plurality of walls located beneath the trap door forming an enclosed chamber into which the trap door may drop, means carried by the trap door for engaging with the walls of the chamber, whereby the trap door may be supported above the chamber, electrically operated apparatus for causing the means to become disengaged from the walls, and shock absorbing means positioned to intercept the trap door as it falls through the chamber.

1,942,682
METHOD OF OPERATING OPEN HEARTH FURNACES
Arthur J. Boynton, Chicago, Ill., assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill., a corporation of Delaware
Application September 28, 1931
Serial No. 565,505
10 Claims. (Cl. 263—15)



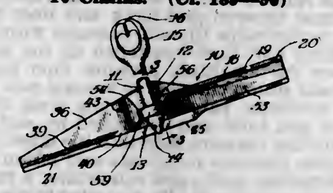
1. The method of open hearth furnace operation, which comprises introducing a controlled quantity of fuel, a controlled quantity of primary air by forced draft, and from a separate source inducing a separate stream of secondary air by stack draft.

1,942,683
PRINTING BLOCK AND METHOD OF MAKING SAME
Bert C. Chambers, New York, N. Y., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey
Application April 21, 1930. Serial No. 445,853
3 Claims. (Cl. 101—395)



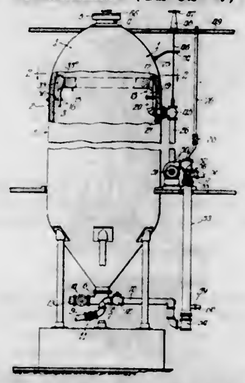
1. The method of preparing a printing block or plate that has a rubber layer strippably secured to an intermediate layer, which is in turn strippably secured on a substantially rigid base, which method comprises cutting through the rubber layer down to the intermediate layer peripherally about the non-printing portions of the rubber layer; stripping off said portions from the intermediate layer so as to leave in relief thereon the printing portions of the rubber layer; and cutting through the exposed intermediate layer peripherally about those portions thereof which it is desirable to remove and stripping off same.

1,942,684
EARTH ANCHOR
Albert B. Chance, Centralia, Mo.
Application February 3, 1932. Serial No. 590,533
10 Claims. (Cl. 189—80)



1. In an earth anchor, the combination of a metal anchor plate having an aperture for receiving the head of a guy rod and having a slot for receiving the rod, with a guy rod having a head on its lower end, said guy rod fitting into said slot, and an outwardly projecting flange carried by said anchor plate and adapted to engage the body of said guy rod to hold said anchor at substantially right angles to the axis of the guy rod.

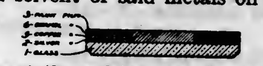
1,942,685
SULPHITE PULP DIGESTER SYSTEM
Andreas Christensen, Rhinelander, Wis., assignor to Fibre Making Processes, Inc., Chicago, Ill., a corporation of Illinois
Application June 16, 1932. Serial No. 617,572
18 Claims. (Cl. 92—7)



1. In means for digesting wood or the like, a digester, a pump, and a vertical heater having an outlet at its lower end, the intake of the pump being connected to the upper portion of the digester for withdrawing liquor therefrom and the discharge of the pump being connected to the upper end of the heater for delivering thereto the withdrawn liquor under pressure and forcing said liquor downwardly through the heater, the outlet at the lower end of the heater being connected to the lower portion of the digester for delivering thereto the heated liquor.

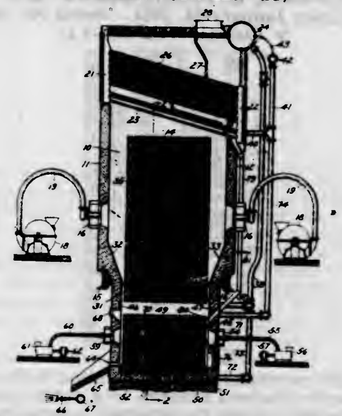
1,942,686
MIRROR AND PROCESS OF MAKING IT
George F. Colbert, Pittsburgh, and William H. Colbert, Brackenridge, Pa., assignors to Liberty Mirror Works, a corporation of Pennsylvania
Application January 19, 1932. Serial No. 587,538
3 Claims. (Cl. 41—43)

1. A process of partially silvering a glass surface, which consists in precipitating over the area a coat of silver, electroplating a film of copper over said coat, placing a pattern resistant to the action of a solvent of said metals on said film



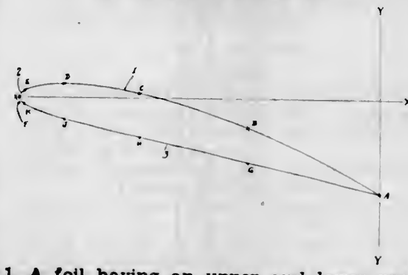
so that a part thereof is covered and a part is left uncovered, and then exposing the film thus partially protected to the action of said solvent.

1,942,687
FURNACE AND METHOD OF OPERATING
Fred H. Daniels, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application November 14, 1930
Serial No. 495,686
10 Claims. (Cl. 110—28)



9. The method of operating a furnace having a main furnace chamber and an ash pit therebeneath comprising the steps of introducing pulverized fuel and air into the main furnace chamber for combustion in suspension, absorbing radiant heat from the combustion flame at a sufficient rate to maintain the temperature in the main furnace chamber normally below the fusion point of the ash from the fuel, collecting the ash in the ash pit, burning sufficient additional fuel in suspension in the ash pit to melt the ash, and removing the ash from the ash pit in liquid form.

1,942,688
FLUID FOIL
David R. Davis, Los Angeles, Calif.
Application May 25, 1931, Serial No. 539,729
Renewed May 29, 1933
13 Claims. (Cl. 244—12)



1. A foil having an upper and lower profile, said profiles being correlated and conforming to

the following formula, substantially as described:

suction face or upper camber

$$X_s=\sin\theta[0.6366198(A-B)+B]+\tan\theta[\{1-(0.6366198)(\theta)\}(1-A)]$$

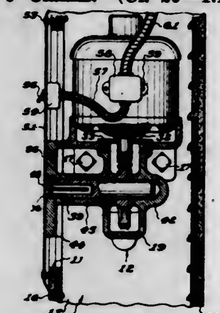
$$Y_s=\cos\theta[0.6366198(A-B)+B]-A[1-(0.6366198)(\theta)]$$

pressure face or lower camber

$$X_p=\sin\theta[0.6366198(A-B)+B]+\tan\theta[\{1-(0.6366198)(\theta)\}(1-A)]$$

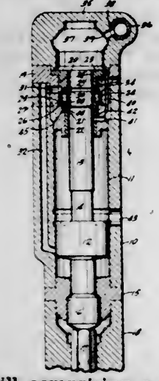
$$Y_p=\cos\theta[0.6366198(A-B)-B]-(A-2B)[1-(0.6366198)(\theta)].$$

1,942,689
DOMESTIC POWER UNIT
Frederick R. Erbach, Detroit, Mich.
Application January 20, 1931. Serial No. 509,986
9 Claims. (Cl. 20—1.1)



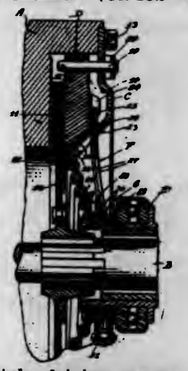
1. The combination of a building wall having an opening formed therein, of a power unit rigidly secured within the opening, means for closing the opening to shield from view the power unit located internally of the wall, and a driving connection disposed behind said means and associated with the unit but accessible from the exterior of the wall.

1,942,690
ROCK DRILL
Albert Feucht, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a corporation of Ohio
Application September 7, 1932. Serial No. 631,980
2 Claims. (Cl. 121—18)



1. A rock drill comprising a cylinder formed with a piston chamber, a piston reciprocable therein, said piston having a stem extending therefrom, a neck within said stem, a valve block within said cylinder, a liner detachably secured within said block through which the stem of said piston is slidably guided, an annular valve chamber formed between said block and liner having a valve reciprocable therein, passages within said valve block and liner controlled by the neck of said stem for admitting pressure fluid into one end of said piston chamber to actuate said piston in one direction, passages leading from the interior of said liner and controlled by said valve for admitting pressure fluid into the other end of said piston chamber to actuate said piston in the other direction, said valve comprising a restricted pressure area constantly subjected to the action of the pressure fluid for shifting and holding said valve in one position, a shifting area subjected to the pressure fluid for shifting said valve in the other position, and an enlarged holding area intermittently subjected to the action of the pressure fluid for holding said valve into said last mentioned position, the pressure fluid admitted to said shifting area being controlled solely by the end of said piston stem within said liner.

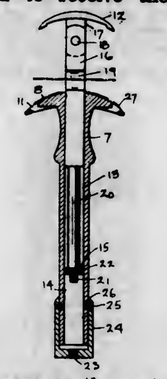
1,942,691
CLUTCH
James O. Fink, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application July 6, 1931. Serial No. 548,787
14 Claims. (Cl. 192—68)



11. In a clutch, driving means, driven means, driving and driven members respectively connected in driving relation with said driving and driven means, a cover plate fixed to said driving means and having an inner flange portion extending towards said driving member, said flange portion having openings therethrough, and levers acting on said driving member and extending through and fulcrumed by said cover plate openings.

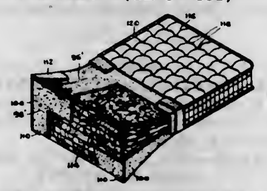
1,942,692
SAFETY RAZOR
John D. Garretson, Oakland, Calif.
Application September 21, 1931
Serial No. 563,940
4 Claims. (Cl. 30—12)

1. A safety razor consisting of a convex blade seat; a blade having a slot extended in from the cutting edge thereof; means on the seat to cover the entrance to the blade slot; a cap to flex and hold the blade on the seat; a stem on the cap adapted to be extended through the blade and seat to hold the blade between the cap and seat, said stem having a portion of the length thereof reduced to receive the slotted blade



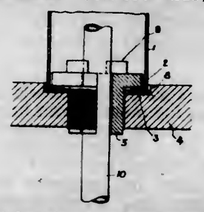
thereon; and means on the seat to engage said stem.

1,942,693
MATTRESS AND THE LIKE AND PROCESS OF MANUFACTURING THE SAME
William L. Grapp, Belgrade, Minn.
Application September 28, 1928
Serial No. 308,961
2 Claims. (Cl. 5—355)



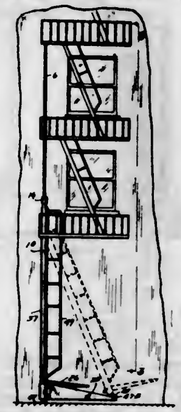
1. A mattress and the like comprising a filling of fluffy material and a compressed insulating buffer completely surrounding said filling.

1,942,694
TUBULAR HEATING ELEMENT
Thomas Griswold, Jr., Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application May 23, 1929. Serial No. 365,376
7 Claims. (Cl. 257—248)



1. In an article of manufacture, the combination of a tube having one open end and the other end flanged inwardly, a hollow threaded flanged stud freely insertable in said tube through the open end thereof, freely removable therefrom, and adapted to engage with the flange of the tube, so that when the stud is screwed into a suitably threaded hole in an associated member, the tube may be drawn up to said member by so screwing in the stud without requiring that the tube itself be rotated with the stud, and removable means for closing the open end of the tube.

1,942,695
FIRE ESCAPE
Edward Gross, Portland, Oreg.
Application March 29, 1932. Serial No. 601,800
4 Claims. (Cl. 227—5)

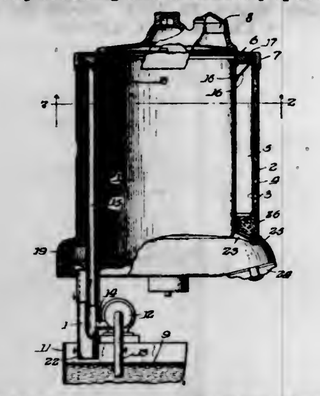


1. In a device of the class described, in combination with a fire escape, a pair of piston rods spaced apart and depending from one of the upper members of the fire escape, pistons disposed upon the lower ends of the piston rods, a central passageway extending through each of the pistons, a ball check valve disposed within the passageway and normally held closed by a coil spring, ports extending through the side walls of the central passageway, an elongated cylinder associated with each of the piston rods and pistons, the piston being somewhat smaller than the cylinder to facilitate a passage of a fluid therebetween, a base bar connecting the respective cylinders at their bottom ends, the cylinders being normally held in a raised position within the fire escape by a supporting means including a rearwardly extending lug for engagement with the fire escape, a trip platform hingedly mounted to the base of the cylinders and adapted when weight is applied thereto to release the supporting lug and to thereby permit lowering of the assembly, a ladder slidably pivoted to the cylinders, the ladder normally resting in a substantially vertical position, automatic means for raising the ladder relative to the cylinders when the assembly has contacted the side walk beneath the fire escape, and means for projecting the lower end of the ladder from the vertical by gravity immediately following said contact with the side walk and manually manipulative means for raising the ladder assembly within the fire escape assembly said projecting means including a downwardly inclined track and a trip adapted to project the lowermost end of the ladder onto the inclined portion of the track.

1,942,696
ICE CREAM FREEZER CONSTRUCTION
Walter R. Helwege, Beloit, Wis., assignor to Taylor Freezer Corporation, Beloit, Wis., a corporation of Delaware
Application September 1, 1932. Serial No. 631,333
5 Claims. (Cl. 257—212)

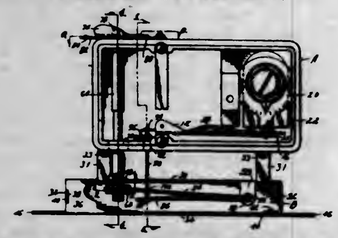
2. An ice cream freezer comprising a vertical cylindrical cream can, an insulated wall surrounding the can and spaced apart therefrom providing an enclosed air space, a conical brine distributor surrounding the upper end of said can and means for closing the top of said dis-

tributor, the lower edge of said distributor being crimped and arranged with portions of the edge alternately touching and alternately spaced apart



from said cream can to provide a plurality of adjacent small apertures, means for supplying brine to said distributor under pressure, and means for draining the brine from said air space.

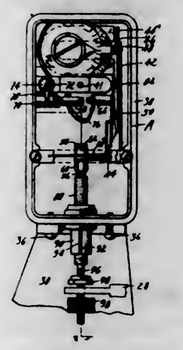
1,942,697
SURFACE SWITCH
Malcolm E. Henning, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a corporation of Iowa
Application October 9, 1930. Serial No. 487,494
6 Claims. (Cl. 200—139)



1. In a switch structure of the class described, a switch housing and a switch casing connected together in spaced relation to each other, switch mechanism within said switch housing, a temperature responsive element within said switch casing, an operative connection having its ends extending into said switch housing and said switch casing and connecting said switch mechanism and said temperature responsive element together and means for adjusting said temperature responsive element comprising a control rod having a knob thereon external of said switch housing, said rod extending through said switch housing from front to back thereof, through the front and into said switch casing and connected therein with said temperature responsive element.

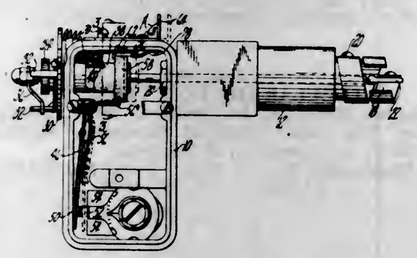
1,942,698
FLOAT SWITCH WITH AUXILIARY CIRCUIT CONTROL
Malcolm E. Henning, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a corporation of Iowa
Application September 2, 1931. Serial No. 560,781
8 Claims. (Cl. 200—84)

1. For use with a movable actuating member, a switch structure comprising a casing, a post slidable through a wall of said casing and operatively connected with said actuating member for simultaneous movement therewith, a movable switch member within said casing, a resilient lever operatively connected with said post and engageable with said switch member, a mag-



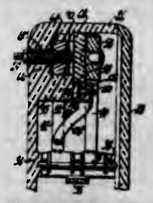
net influencing said switch member toward such engagement and alarm contacts in said casing, one of said alarm contacts being carried by said resilient lever and the other one being stationary relative to said casing, said alarm contacts being engageable only after disengagement of said resilient lever from said switch member.

1,942,699
THREE POSITION SWITCH AND RESET
Malcolm E. Henning, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a corporation of Iowa
Application November 16, 1931
Serial No. 575,277
20 Claims. (Cl. 200—138)



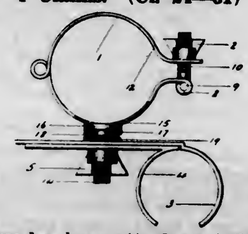
1. In a structure of the class described, circuit control means for making and breaking an electric circuit, a single means responsive to different degrees of a single condition to normally automatically operating said circuit control means dependent on normally opposite conditions for making and breaking said electric circuit, said condition responsive means also serving to break said circuit upon operation of the condition responsive means when responsive to an other than normal extreme of one of said opposite conditions and manually operable means for actuating said circuit control means to make said circuit after the same has been broken on account of said other than normal actuation and for thereby resetting said circuit control means to assume a position for automatic actuation after the other than normal cause of actuation has been removed.

1,942,700
SWITCH STRUCTURE
Malcolm E. Henning, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a corporation of Iowa
Application February 17, 1932. Serial No. 593,571
6 Claims. (Cl. 200—83)



5. In a switch structure, a casing, a magnet, a terminal for clamping said magnet against one wall of said casing, a shoulder above said magnet, a second magnet, a second terminal for clamping said second magnet against said shoulder, a contact connected with each terminal, a switch arm for engagement with each of said contacts, pressure responsive means for actuating one of said switch arms and float means for actuating the other of said switch arms.

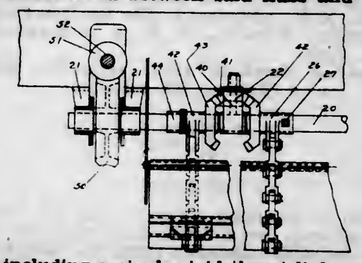
1,942,701
GARDEN HOSE ATTACHMENT
Arthur Mansfield Hilton, Royston, British Columbia, Canada
Application July 13, 1931, Serial No. 550,499, and in Canada September 19, 1930. Renewed February 13, 1933
4 Claims. (Cl. 24—81)



1. In a garden hose attachment the combination comprising a clamp adapted to embrace the handle of a garden fork, spade, stake, or other suitable support, provided with means for being rigidly and removably secured thereto; pivotally mounted about an axial projection radiating therefrom, an adjustable clamp provided with controllable means for rigidly and removably securing an object such as a garden hose so that it may be firmly held to point in a desired direction and its weight supported by the device, substantially as set forth.

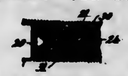
1,942,702
CONTROL MECHANISM FOR HOPPER CAR DOORS
William J. Hosceit, Chicago, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a corporation of Maine
Application November 14, 1931
Serial No. 574,949
18 Claims. (Cl. 105—251)

1. In combination with a hopper car having longitudinal V-shaped hoppers on opposite sides of the center sill and inside doors for said hoppers pivoted at the location of the apices of said hoppers, control mechanism for each of said doors comprising a longitudinal shaft disposed between said doors having toothed hubs thereon, link means connected between said hubs and doors



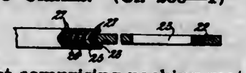
each including a single rigid thrust link extending between a tooth on said hub and said door when the latter is in closed position.

1,942,703
GASKET
Cecil R. Hubbard and Francis W. Armstrong, Palmyra, N. Y., assignors to the Garlock Packing Company, Palmyra, N. Y., a corporation of New York
Application August 14, 1931. Serial No. 557,060
6 Claims. (Cl. 288—1)



1. A composite gasket comprising an annular, laminated, semi-metallic, relatively resilient, packing element built up of thin, ribbon-like portions of metallic and non-metallic material in alternation having their opposite edges in opposite working faces, and a concentric, metal, annular, relatively rigid, packing element, of a thickness materially greater than that of the ribbon-like portions of the semi-metallic packing element having opposite working faces adapted to serve as extensions of the working faces of the laminated element.

1,942,704
GASKET
Cecil R. Hubbard and Francis William Armstrong, Palmyra, N. Y., assignors to The Garlock Packing Company, Palmyra, N. Y., a corporation of New York
Application January 6, 1932. Serial No. 584,918
5 Claims. (Cl. 288—1)



1. A gasket comprising packing material and a relatively inexpensive, readily attachable and detachable centering element adapted to frictionally engage the packing material, said packing material being localized throughout so much of the gasket as is relied upon to adapt it for use as a joint sealing device and the centering element comprising an added, continuous, marginal extension of tractable material of such size and form as to be adapted to make aligning contact with opposing position-determining surface portions of the structure to be sealed by the gasket and serve as a templet to properly position the packing material, the packing material and centering element being so constructed and arranged as to be capable of being quickly assembled and disassembled as completed units by merely pressing contiguous complemental marginal portions of the packing material and of the centering element into and out of engagement with each other.

1,942,705
OIL-SEALING DEVICE
Cecil R. Hubbard and Robert M. Waples, Palmyra, N. Y., assignors to The Garlock Packing Company, Palmyra, N. Y., a corporation of New York
Application March 12, 1932. Serial No. 599,876
4 Claims. (Cl. 288—1)



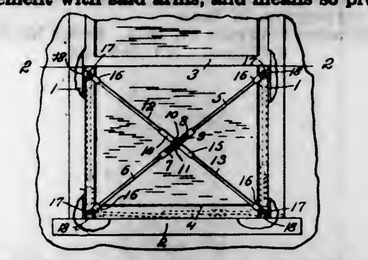
1. An oil-retaining device to seal the annular joint between two concentrically-mounted, relatively movable machine elements, said device comprising a relatively rigid annular shell having a flexible sealing ring mounted therein, said sealing ring comprising an outer portion having a smooth, substantially cylindrical, outer sealing surface, an inner portion having a smooth, substantially cylindrical, inner sealing surface, and a connecting portion having a smooth lateral sealing surface, said sealing ring being channeled along the zone between said outer and inner portions at the side opposite said lateral sealing surface and compressed into an annular space of less radial depth than the normal radial depth of the ring, and said shell comprising a portion having one surface adapted for fluid-tight engagement with one of the two machine elements, and another substantially cylindrical surface to form a seat for one of the substantially cylindrical sealing surfaces of the resilient ring, and a restraining flange having an internal surface conforming and in contact with a portion of the lateral sealing surface of the resilient ring, the radial depth of the resilient ring being greater than that of the restraining flange, and its outer and inner portions being capable of being flexed about the intermediate channeled portion.

1,942,706
PROCESS FOR PROTECTING FIBER PRODUCTS
Fergus A. Irvine, New Orleans, La.
No Drawing. Application May 12, 1932
Serial No. 610,994
4 Claims. (Cl. 92—40)

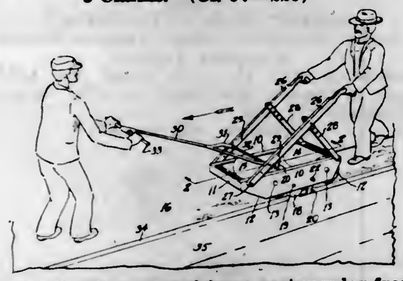
1. The process of incorporating a toxic substance into a fibrous felted product produced according to the general procedure of paper making, that is, by felting fiber on a foraminous member from a dilute suspension of fiber in liquid, and in which the ratio of suspending liquid to suspended fiber is of an order of about 99 parts to 1 part, and wherein the toxic substance is incorporated through its addition to the liquid suspension as a dry finely divided solid added in a manner whereby the dry solid particles are substantially separated one from another to contact and enter the suspension liquid individually.

1,942,707
WINDOW BURGLAR GUARD AND ALARM
Katie Lee Jones, Kansas City, Mo.
Application July 29, 1932. Serial No. 625,643
7 Claims. (Cl. 20—71)

1. In a window burglar guard and alarm, the combination with a window frame, of a pair of alined inclined bars extending transversely between opposite stiles of said frame, a sleeve telescopically engaging adjacent end portions of said bars and movable off from one of said bars and having two inclined arms extending in opposite directions therefrom at an angle to the axis thereof, a second pair of bars respectively alined with said arms, two sleeves respectively movable on said last named bars into and out of holding engagement with said arms, and means so pivoting on horizontal axes the distant ends of the bars of each pair to opposite side portions of said frame, that the bars, when released at their adjacent ends, will swing by gravity against said frame and thus sound an alarm.

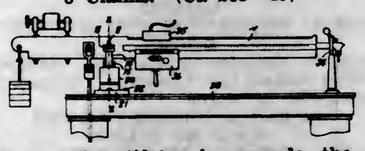


1,942,708
SOD CUTTER
Donald Junor, Beaverton, and Clayton A. Sharp, Portland, Oreg.
Application March 21, 1931. Serial No. 524,324
3 Claims. (Cl. 97—226)



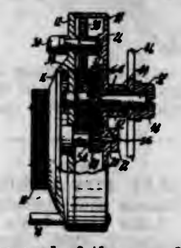
1. A sod cutter comprising a rectangular frame having a sod-engaging roller supporting each end thereof, a horizontal transversely disposed knife carried by said frame between said rollers, a vertical disk cutter in front of each end of said knife, a pair of handles pivotally connected to the forward end of said frame and adjustably braced to the rear end of said frame whereby the grips of said handles will be directly over the rearmost roller, and a combined pushing and pulling tongue pivotally attached to said handles approximately above the foremost roller.

1,942,709
SELF-JUSTIFYING BEAM-SCALE
Frank Henrey Kasperson, New Haven, Conn.
Application June 10, 1932. Serial No. 616,417
8 Claims. (Cl. 265—49)



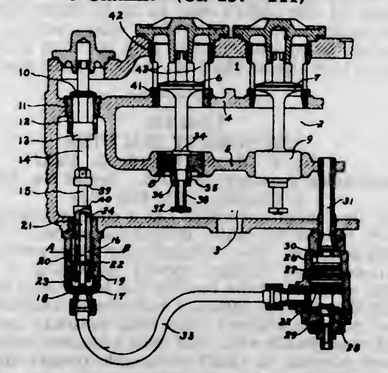
1. In a self-justifying beam-scale, the combination with a vertically-oscillating beam subject to lateral deflection; of a knife-edge pivot therefor; a centering-inducing bearing for the said pivot; a horizontally rotatable yoke mounting for the said bearing and having a stem; a pin passing laterally through the stem; rollers mounted upon the ends of the pin; and means for mounting the yoke, including circular bearing-seats for the said rollers and of larger diameter than the same, whereby the action of gravity in centering the rollers upon the said circular bearing-seats thereof turns the yoke into its predetermined position when deflected therefrom by the lateral deflection of the said beam.

1,942,710
FREE-LINE-CASTING LEVEL-WIND REEL OF THE NONFREE-SPOOL TYPE
Joe Kautsky, Jr., Fort Dodge, Iowa
Application May 2, 1932. Serial No. 608,707
4 Claims. (Cl. 242—84.4)



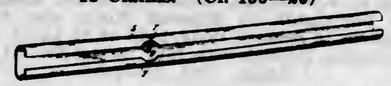
2. In a fishing reel of the non-free-spool type, a frame, a spool shaft rotatably mounted therein, a spool fixed to said shaft, a line carriage shaft rotatably mounted in the frame, a carriage arranged for reciprocation in front of the spool during rotary movement of said carriage shaft, a spindle fixed to the frame, a pair of winding gears rotatably mounted on said spindle, a pinion on the spool shaft meshing with one of said gears, a pinion on the carriage shaft meshing with the other gear, a crank rotatably mounted and connected with the gear which is arranged for turning the spool shaft, a ratchet on one of said gears, and a pawl pivoted on the other gear for engagement with said ratchet during rotary movement in one direction only.

1,942,711
REGULATING VALVE APPARATUS FOR LOCOMOTIVE OR OTHER STEAM ENGINES
Rupert Ernest Kimberley, Junin, Argentina, assignor to American Throttle Company, Inc., New York, N. Y.
Application May 27, 1931, Serial No. 540,273, and in Great Britain June 6, 1930
6 Claims. (Cl. 137—144)



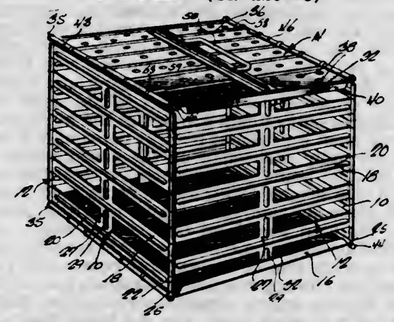
1. In a regulating valve apparatus of the class wherein a valve controlling a port between a steam inlet chamber and a steam delivery chamber is balanced by steam admitted by a pilot valve to a balancing chamber and exerting pressure on a balancing piston connected to the valve, and in combination with said elements, a passage leading from the balancing chamber to a point of constant low pressure, two valve means controlling said passage, means to open the first of them after the pilot valve has been opened a predetermined amount and at the same time to shut off the passage controlled by the pilot valve, and differential piston means to open the second when the pressure in the balancing chamber exceeds that in the delivery chamber by a predetermined amount.

1,942,712
DRAPERY SUSPENSION FIXTURE
Charles W. Kirsch, Sturgis, Mich.; Guy W. Kirsch and John N. Kirsch, coexecutors of said Charles W. Kirsch, deceased, assignors to Kirsch Company, Sturgis, Mich., a corporation of Michigan
Application January 2, 1932. Serial No. 584,513
13 Claims. (Cl. 156—20)



1. In a conventional hollow curtain rod provided with a continuous longitudinal slot and equipped in its end portions with sheaves and between said sheaves with slides engaged with and riding upon the walls of said slot, there being recesses in the walls of said slot at a point substantially midway between said sheaves laterally enlarging said slot, and a removable closure member for said recesses.

1,942,713
COLLAPSIBLE CRATE
Frank J. Klinka, Milwaukee, Wis.
Application November 12, 1931
Serial No. 574,552
5 Claims. (Cl. 220—6)

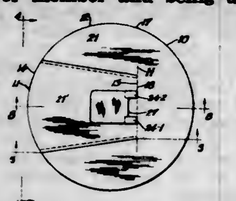


5. An article carrying crate having unitary side members each comprising a plurality of slats integrally connected at their medial portions, the slats of adjacent sides being staggered so that the ends of the slats of one side are interposed between the ends of the slats of adjacent sides and whereby the slats of one side may be formed by the material cut from between the slats of the two adjacent sides.

1,942,714
CLOSURE FOR LIQUID CONTAINERS
Martin Klusch, Canton, Ohio
Application April 19, 1932. Serial No. 606,151
4 Claims. (Cl. 215—51)

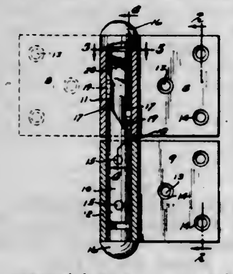
1. A closure for the mouth of a liquid container and the like, including two members connected

with each other along a straight hinging line determining a boundary between adjacent portions of the members, one of the members comprising a door member and being adapted for



being swung about the hinging line, and an opening and closing lever having a hook at one end, the hook being connected with the door member adjacent the hinging line.

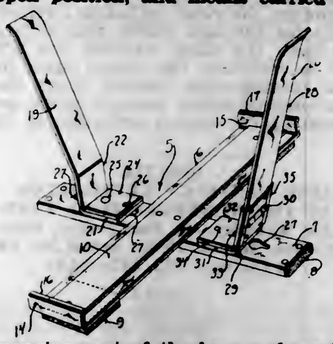
1,942,715
GRAVITY HINGE
John R. Kunselman, Stillwater, Minn., assignor of one-eighth to Edmond Koein and five-eighths to S. Mark Dodd, both of St. Louis, Mo.
Application December 16, 1931. Serial No. 581,338
1 Claim. (Cl. 16—153)



A hinge comprising an upper leaf having a sleeve-like bearing lug and a lower leaf having a pintle extending into the bearing lug and supporting the upper leaf entirely over the lower leaf or swinging movement from one side to the other thereof, and means for raising and lowering the upper leaf with respect to the lower leaf including a pair of cam grooves in the pintle that diverge from a common neutral point and a cam stud normally positioned by the cam grooves at said neutral point for movement into either one of the cam grooves, said leaves being held in the same plane by said raising and lowering means when the cam stud is at the neutral point, said pintle having an entrance groove for the cam stud on each side of the neutral point, said stud supporting the upper bearing lug spaced above the lower bearing lug to permit free swinging movement of the upper leaf over the lower leaf.

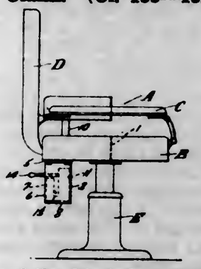
1,942,716
LOOSE-LEAF BINDER APPLIANCE
Adolph G. Lotter, Milwaukee, Wis., assignor to Stationers Loose Leaf Co., Milwaukee, Wis., a corporation of Wisconsin
Application February 15, 1932. Serial No. 592,959
3 Claims. (Cl. 129—1)

2. A book stand of the character described comprising, a base having a member adapted to receive the back of a book, upright arms for supporting the covers of the book in an inclined partially open position, means connecting said arms with the base, one of said arms being movable to a lowered position to enable the cover supported by it to be moved to substantially a fully open position, and means carried by the



back-engaging part of the base and overlying a portion of the book back to hold the book against tipping when said cover is fully open.

1,942,717
CHILD'S SEAT FOR BARBER CHAIR
Arnold A. Mason and Russell F. Mason, Lake View, Iowa
Application October 2, 1931. Serial No. 566,478
1 Claim. (Cl. 155—132)



In a device of the kind described for a barber chair having a seat with a U-shaped recess cut out centrally in its rear margin, and there being a child's seat movably mounted in the said recess, the addition of a U-shaped bracket of substantial width secured by its legs to the under side of the chair seat immediately below the said recess, and a hydraulic lift mechanism mounted on the bight of the bracket and connected with the child's seat for raising and lowering same, the point of connection being rearwardly of the center of the child's seat so as to throw the lift mechanism rearwardly for easy access, the bracket being sufficiently wide to form a stable support for the mechanism in its upright position.

1,942,718
AMUSEMENT MACHINE
John F. Meyer, Pasadena, Calif.
Application January 18, 1932. Serial No. 587,294
2 Claims. (Cl. 194—65)

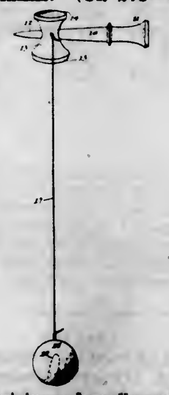
2. In a machine which has a compartment and latch means normally preventing access to said compartment, the combination therewith of a coin-actuated release means including a coin tube, said coin tube having the lower end of one wall thereof cut away, a bell crank including a foot portion aligned with said cutaway portion and engageable with said wall adjacent said cutaway portion, a shaft having a pocket therein aligned with said tube whereby a coin passing through said tube may move into said pocket, a

chain having one end thereof wrapped about said shaft and having the opposite end thereof connected to a yieldable means which acts through said chain to normally hold the pocket in alignment with said tube, means for rotating said shaft whereby a coin positioned in said pocket may move through said cutaway portion into engagement with said bell crank to move said bell crank with said shaft, a ratchet on said shaft, and a centered pawl engageable with said



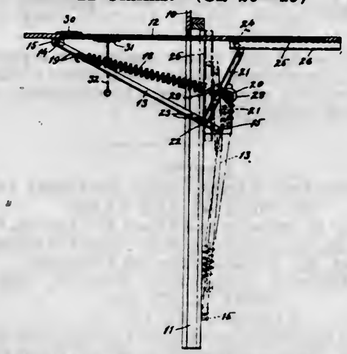
ratchet to prevent movement of said shaft back into position to align said pocket with said tube prior to the time a coin in said pocket and moving said bell crank has disengaged the foot portion of said bell crank, said ratchet including a relieved portion and said pawl having a rounded surface whereby when said pawl moves into said relieved portion the rounded surface of said pawl cooperates with said ratchet to thereby permit said shaft to move back into the position whereat the pocket therein is aligned with the tube.

1,942,719
TOY
Yoshiharu Mikamo and Ishizo Koda, Watsonville, Calif.
Application May 25, 1932. Serial No. 613,413
3 Claims. (Cl. 273—97)



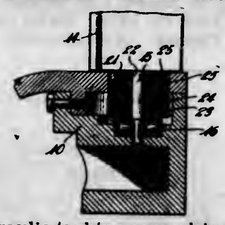
1. A toy comprising a handle member having a ball rest at one end and a point at the other; a supporting head mounted on said handle member with the point of the handle member protruding through said head, said supporting head being provided at its opposite ends with ball rests of sizes different from each other and from said first mentioned rest; and a ball flexibly secured to said supporting head and provided with a recess to receive said point, said ball being adapted to be tossed upwardly and caught in one of said rests or on said point.

1,942,720
DOOR CONTROLLING MECHANISM
Isaac T. Mize, Akron, Ohio
Application October 3, 1931. Serial No. 566,599
11 Claims. (Cl. 20—19)



1. The combination of an overhead-swinging, rigid door, stationary fulcrum members, rail bars movable over said members and movably supporting the upper portion of said door when the latter is swung from closed position, and door-suspending bars pivoted to said rail bars.

1,942,721
FLEXIBLE CONNECTION
Lucian Q. Moffitt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 12, 1932. Serial No. 598,453
4 Claims. (Cl. 253—122)

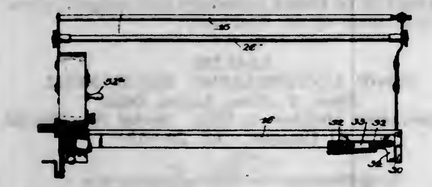


1. A hydraulic turbine comprising, in combination, a gate casing having vertically aligned apertures, a gate having vertically aligned pintles positioned in the apertures, means flexibly connecting the pintles and the casing in fluid sealing relation comprising annular bodies of rubber surrounding the pintles and secured thereto and to the casing, and a thrust bearing associated with the casing and one of the pintles in such relation as to be accessible while leaving the said connecting means intact.

1,942,722
MANIFOLDING APPARATUS
Harold Thomas Mosfelt and Harold Schagerholm, Chicago, Ill., assignors to Ross J. Beatty, Chicago, Ill.
Application February 20, 1933. Serial No. 657,534
9 Claims. (Cl. 197—153)

1. A manifolding attachment for typewriters comprising a rectangular frame, means for as-

sembling said frame with the platen carriage of a typewriter, means for adjusting the width of said frame, a plurality of ribbon fingers depending from one side of said frame and mecha-

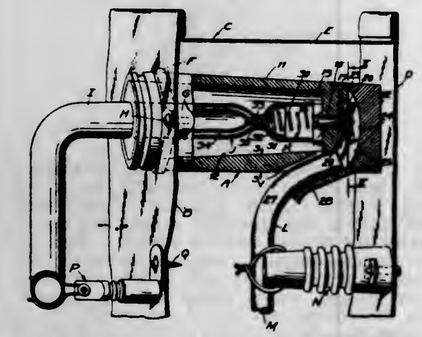


nism carried by said frame comprising a pair of mechanically rotated rollers for feeding a ribbon by the rotation of said rollers longitudinally between said ribbon fingers.

1,942,723
COMPOSITE PANEL AND METHOD OF PRODUCING THE SAME
Treadway B. Munroe and Elbert C. Lathrop, Chicago, Ill., assignors to The Celotex Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 29, 1929
Serial No. 374,945
4 Claims. (Cl. 154—2)

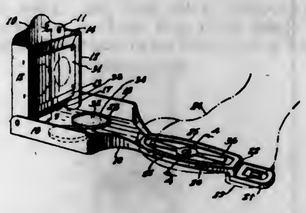
1. The method of producing an attractive hard panel of fibrous composition which consists in combining a base portion of homogeneous but heterogeneously arranged fibers having a moisture content of approximately 50% with a surfacing sheet carrying a design thereon; and welding said base portion and said sheet together by virtue of an adhesive interposed therebetween, said welding accomplished under application of heat and pressure.

1,942,724
LUMINESCENT TUBE ELECTRODE RECEPTACLE
Charles M. H. Nelson, Los Angeles, Calif.
Application June 20, 1932. Serial No. 618,223
17 Claims. (Cl. 173—328)



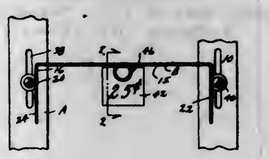
1. A light tube receptacle of the class described embodying: a housing composed of insulating material and having a deep socket extending longitudinally therein; an apertured transverse wall in said housing at the inner end of said socket; and a transverse chamber formed in said housing above said transverse wall, the wall of said housing being provided with an inclined channel leading from an intermediate portion thereof to said transverse chamber and adapted to receive a conductor cable.

1,942,725
SHOE POLISHING RACK
Hal B. Nesbit, Hood River, Oreg.
Application April 29, 1932. Serial No. 608,252
1 Claim. (Cl. 15—265)



A shoe polishing rack comprising an upright back having spaced vertical sides and having a front and bottom between said sides forming a receptacle, a wide flat arm having openings therein adapted to hold paste receptacles, said arm being hinged to the bottom ends of said sides on a fixed axis, a spring for urging said arm toward a vertical position, said arm having a stop to limit its downward travel to a substantially horizontal plane, said arm having its lateral edges turned toward said back and in parallelism with the sides of said back, said arm converging toward its outer end to form a foot rest with the heel portion thereof outermost the sides of said arm converging to form the sides of said foot rest, and a resilient pad secured against said front behind the openings in said arm constituting closures for shoe paste cans mounted within said openings.

1,942,726
DISPLAY RACK FOR MAGAZINES AND THE LIKE
Frederick Newquist, Essex, Iowa
Application March 14, 1932. Serial No. 598,663
5 Claims. (Cl. 211—51)

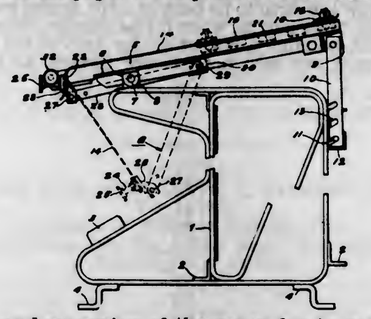


1. In a rack of the class described, an upright support and means thereon for holding a magazine or the like, said means comprising a series of vertically spaced holders each being formed of resilient wire having a central bar, downwardly extending terminal ends and attaching legs and feet intermediate said bar and ends.

1,942,727
DRAFTSMAN'S TABLE
Gerald A. O'Farrell, Oakmont, Pa.
Application June 12, 1933. Serial No. 675,411
10 Claims. (Cl. 45—131)

1. In combination with a drawing board, means for clamping the drawing paper at one edge in fixed relation to the board, and means for gripping the opposite edge of the paper and

applying constant yielding force thereto in the plane of the paper to compensate for the contrac-



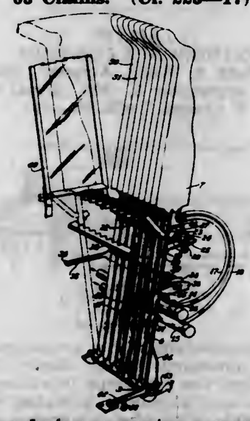
tion and expansion of the paper due to varying conditions of moisture content in the paper.

1,942,728
CLOTH CLAMP
Morris M. Peristein, Chicago, Ill.
Application May 29, 1931. Serial No. 541,099
4 Claims. (Cl. 164—79)



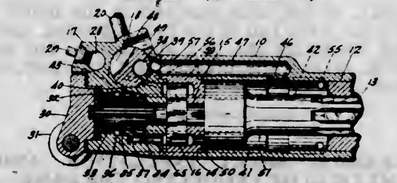
3. A cloth clamp comprising a base, a frame horizontally pivoted to the same, and a hanger suspended over the cloth in free pivotal relation to the frame, such hanger being weighted and by its free suspension descending in a vertical course to press down on the cloth as the frame is lowered upon the latter.

1,942,729
HOSIERY DRYING APPARATUS
Thomas W. Prosser and John H. Wahlbeck, Kankakee, Ill., assignors to Paramount Textile Machinery Co., Chicago, Ill., a corporation of Illinois
Application July 23, 1931. Serial No. 552,658
63 Claims. (Cl. 223—17)



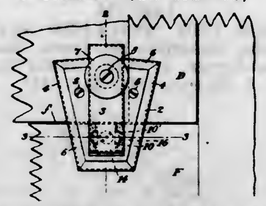
1. Hosiery drying apparatus comprising a plurality of internally heated, spaced, drying forms arranged with the sides of each form facing the sides of adjacent forms throughout substantially the length and width of the forms, adjacent forms cooperating to establish a heated condition in the intervening spaces sufficient to set up a natural draft therethrough, and means for supplying heat to all of said forms.

1,942,730
ROCK DRILL
John E. Renfer, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a corporation of Ohio
Application February 5, 1931. Serial No. 513,669
7 Claims. (Cl. 121—6)



1. In a fluid actuated rock drill, the combination of a cylinder, a piston reciprocable therein, and a blowing device comprising a fluid supply passage, a valve in said passage, a pair of conduits leading from said valve to said cylinder, said valve being capable of rotation into blowing position, passages within said valve capable of communication with one of said conduits to admit motive fluid to one end of said cylinder to move the piston in one direction during the initial part of such rotation and capable of communication with the other of said conduits to admit fluid therethrough in blowing position after the piston has been so moved preventing thereby the reciprocation of said piston.

1,942,731
DOORLATCH
Abraham S. Schenker and Harry Sheer, Brooklyn, N. Y.
Application March 15, 1932. Serial No. 599,036
3 Claims. (Cl. 292—76)
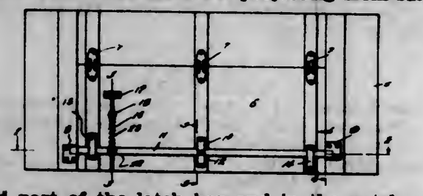


1. In combination, a member secured to a door having a portion overhanging the frame of the doorway and provided with a pair of oppositely disposed, relatively fixed, spaced abutments, and a device secured to said doorway frame and alined to said member, provided with two relatively movable elements each having a free end portion adapted to engage one of said abutments for holding the door closed.

1,942,732
WAGON END GATE FASTENER
Donald Smith Shepard, Goodland, Ind.
Application September 29, 1933
Serial No. 691,537
1 Claim. (Cl. 292—259)

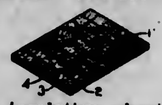
In combination with a wagon end gate latch bar pivotally connected to the gate intermediate its ends, a lever pivotally connected with the gate at its upper end above an end part of the bar, inwardly extending ears carried by the upper part

of the lever, a link extending between the ears and having a longitudinally extending slot therein, a pin carried by the ears and passing through the slot, a notched bracket projecting from said



end part of the latch bar and in the notch of which the lower end of the link is pivoted, and a spring encircling the link and having one end bearing against the bracket and its other end against the ears.

1,942,733
FLEXIBLE SHEET INSULATION AND METHOD OF PRODUCING THE SAME
George D. Shaver, Kalamazoo, Mich., assignor to The Thermimsul Corporation of America, Boston, Mass., a corporation of Massachusetts
Application October 20, 1931, Serial No. 569,910
Renewed August 12, 1933
9 Claims. (Cl. 154—28)



1. A flexible insulation sheet comprising a finely cellular sheet of fibrous insulating material having a binder wound transversely across the upper and under faces of said sheet and around the edges thereof at spaced intervals and having parallel lines of stitches passing through said sheet and extending longitudinally thereof, anchoring the binder to the sheet at the points of intersection.

1,942,734
HOLDER FOR SHOULDER STRAPS
Fritz Spindler, St. Louis, Mo.
Application August 3, 1933. Serial No. 683,513
6 Claims. (Cl. 241—12)



1. A shoulder strap holder comprising a pair of attaching loops for attachment to a garment, and a holder member of resilient material having laterally enlarged heads at the ends thereof to engage the loops and secure the holder thereto.

1,942,735
PROCESS FOR PRODUCING BINDING STRIPS FOR BOXES, CRATES, AND THE LIKE
William Wakefield, Richmond, near Melbourne, Victoria, Australia, assignor to Overseas Machinery Company Proprietary Limited, Melbourne, Victoria, Australia
Application March 28, 1933, Serial No. 663,240, and in Australia October 22, 1930
9 Claims. (Cl. 153—2)

1. Process for the manufacture from flat metal strip, of channel-section metal binding strips for boxes, comprising the operations of forming in one edge of the flat strip mitre notches adapted to allow the strip to be bent at right angles transversely to its length, when it has attained channel section, bending a border of the strip at the side in which the said notches are formed, to form

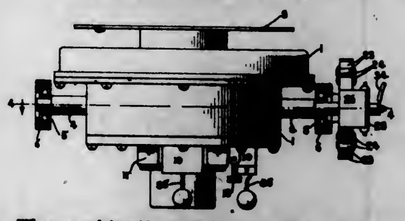


a flange standing at right angles to the plane of the body of the strip, cutting teeth in the body of the strip along a line substantially parallel to said flange and bending said teeth to stand at right angles to the plane of the body of the strip, and on the same side of it as the flange.

1,942,736
COATING COMPOSITION
Wilmer F. Whitescarver, Rutledge, and Horace H. Hopkins, Ridley Park, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 2, 1930
Serial No. 465,444
3 Claims. (Cl. 134—26)

1. A process of manufacturing a coating composition which comprises the steps of preparing a varnish by adding volatile solvent to the product obtained by cooking a drying oil with an oil soluble resin, and blending a bodied drying oil with said varnish, said resin comprising the reaction product of a polyhydric alcohol, a polybasic acid and resin acid.

1,942,737
GYROSCOPE CONTROL
Garfield A. Wood, Algonac, Mich.
Application September 3, 1929. Serial No. 390,153
6 Claims. (Cl. 74—78)



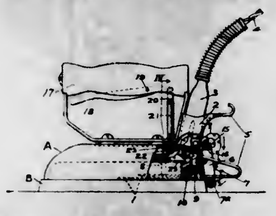
1. The combination with a gyroscope mounted for pivotal movement, of an electric motor arranged to turn the gyroscope in either direction on its pivot and a gravity actuated controlling device movable with the gyroscope comprising a float chamber containing fluid, a rocker arm pivoted between its ends and having a float at each end in said fluid, an electric circuit breaker near each end of said rocker arm whereby movement of the rocker arm in either direction will open or close circuits in the circuit breakers, and electric conductors combined with a source of electrical energy connected with said circuit breakers and said motor to rotate the motor in either of opposite directions when the circuit is closed at either of the circuit breakers.

1,942,738
MEANS FOR ATTACHING A FISHING LINE TO A BOB
Raymond V. Zimmer, Warsaw, Ind.
Application July 26, 1933. Serial No. 682,346
3 Claims. (Cl. 43—49)



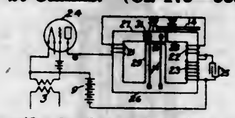
1. Means for attaching a line to the stem of a bob, comprising a sleeve attached to a part of the stem, a pair of spring jaws, one of which is fastened to the sleeve, said jaws forming a wedge-shaped space for receiving and holding the line, and a projection on the sleeve, the inner face of which is engaged by the free end of the movable jaw.

1,942,739
SWITCH FOR ELECTRIC SAFETY SIGNALS
Otto Anderson, Portland, Oreg.
Application September 8, 1930. Serial No. 480,318
1 Claim. (Cl. 200—157)



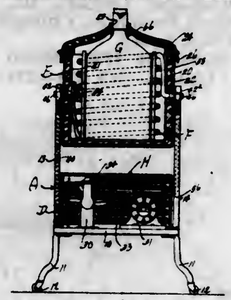
In an electric flat iron device having a horizontal position and an upright position, a switch means, comprising a trigger pivotally mounted near one end thereof in the lower rear part of the handle of the iron, the long end of the trigger extending along the handle in a position to be gripped by the operator, a pin pivotally connected to the short end of the trigger, spaced stationary contacts carried within the irons casing, a contact bridging member mounted on the free end of the pin for bridging the stationary contacts, the long end of the trigger being movable by its own weight away from the handle in the horizontal position of the iron and toward the handle in the upright position of the iron.

1,942,740
ELECTROMECHANICAL SYSTEM
Lindsay M. Applegate, Seattle, Wash.
Application June 2, 1931. Serial No. 541,580
20 Claims. (Cl. 175—338)



1. The method of causing two magnetic circuits of a three-pole magnetic structure to have magnetic fluxes which increase and decrease alternately, the flux of one increasing when the flux of the other is decreasing, which consists of acting electromagnetically on said magnetic circuits with an undulating unidirectional current, the current causing in one of said magnetic circuits an undulating flux substantially proportional to said current, and causing in the other of said magnetic circuits an undulating flux which undulates in magnitude, decreasing when said current increases and increasing when said current decreases.

1,942,741
WATER COOLER
Louis L. Austin, Philadelphia, Pa.
Application January 2, 1931. Serial No. 506,246
21 Claims. (Cl. 62—141)



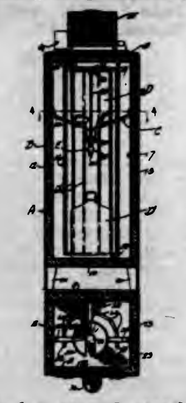
1. In liquid cooling apparatus the combination of a supporting frame, an insulated container tiltably supported upon said frame, means associated with said container for receiving a liquid containing vessel in an upright position with an upper discharge portion of the vessel extending from the container whereby upon tipping of the container the liquid may be dispensed from the vessel, and mechanical refrigerating apparatus supported on said frame including a heat abstracting device disposed within said insulated container in a thermal interchange relation with said vessel and the liquid contained therein.

1,942,742
WATER COOLER
Louis L. Austin, Philadelphia, Pa.
Application March 27, 1931. Serial No. 525,760
12 Claims. (Cl. 62—141)

1. In a liquid cooling apparatus the combination of an insulated cabinet having a cooling compartment therein, means in said cabinet for removably supporting entirely therein an inverted vessel containing liquid to be cooled, draft means connected with said vessel and extending in a sealed relation through said cabinet for selective withdrawal of liquid directly from the vessel at a point exteriorly of the cabinet without passing

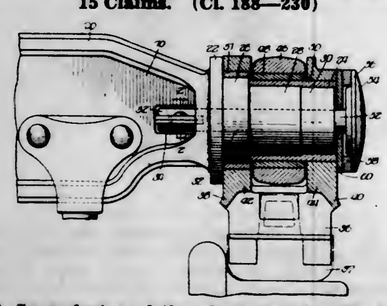
CARNEGIE LIBRARY OF ATLANTA

the liquid through an auxiliary cooling chamber, a mechanical refrigerating unit for maintaining said cabinet cooling compartment at a desired low



temperature, and a second vessel containing a liquid to be cooled in pre-cooled storage in said cooling compartment of the cabinet.

1,942,743
BRAKE HEAD
Jerome K. Blakeslee, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 24, 1930. Serial No. 438,275
15 Claims. (Cl. 188—230)



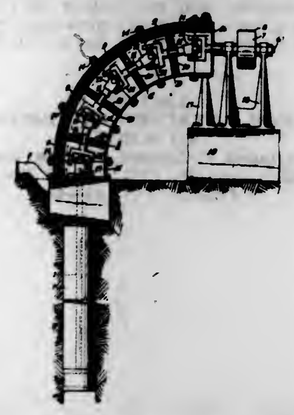
2. In a device of the character described, the combination of a brake beam having a trunnion, said trunnion having bearing portions thereon, a brake head having spaced hub portions disposed on said bearing portions, a hanger disposed on one of said bearing portions between said hub portions, and locking means for said brake head.

1,942,744
COLLAR BUTTON
Garfield Charles, Chicago, Ill.
Application October 14, 1933. Serial No. 693,665
9 Claims. (Cl. 24—90)



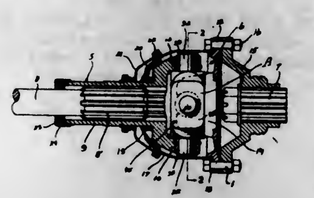
1. A button having a head provided with a plurality of radial teeth spaced about the circumference thereof, said teeth lying within the plane of said head and sharply pointed to penetrate a fabric associated with the button.

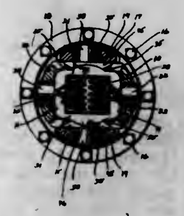
1,942,745
UNIVERSAL DRIVING CONNECTION
George S. Coats, Visalia, Calif.
Application July 11, 1932. Serial No. 621,994
6 Claims. (Cl. 64—30)



1. The combination with the impeller shaft of a deep well pump, of a plurality of rigid housings rigidly connected together for universal joints, universal joints disposed in the housings and being connected together and to the shaft, the universal joints being disposed in the plane of the joining of the housings, and a horizontally disposed driving shaft operatively connected to the impeller shaft by the universal joints.

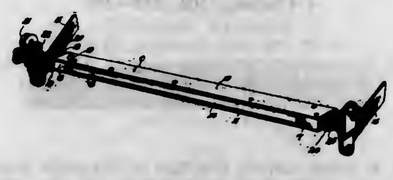
1,942,746
TORSIONAL CROSS JOINT
Edward K. Degener, Los Angeles, Calif.
Application February 18, 1932. Serial No. 593,910
9 Claims. (Cl. 64—102)





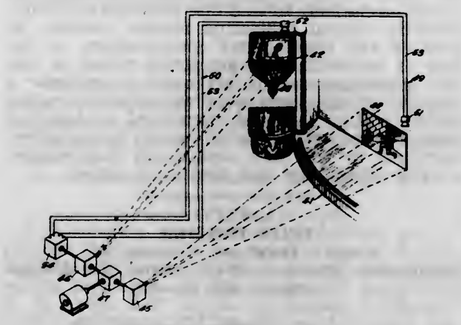
1. In a flexible coupling, a pair of yoke members, and torque cushioning means between the members comprising a cross member having fixed trunnions mounted in one of the yoke members and cushioning trunnion members mounted in the companion yoke member and yieldable in either direction of rotation of the yoke members.

1,942,747
MANIFOLDING DEVICE
Gustave O. Degener, San Francisco, Calif., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York
Original application July 30, 1930, Serial No. 471,802, now Patent No. 1,917,100, dated July 4, 1933. Divided and this application April 22, 1932. Serial No. 606,965
1 Claim. (Cl. 197—144)



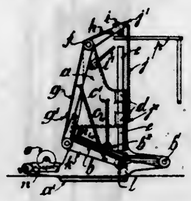
In a manifolding device, the combination with spaced supports, of a reversible platen disposed between and having trunnion bearing in said supports and provided with hard and soft printing faces, means including a spring pressed pin for removably connecting the platen to said supports, and means cooperating with the platen and with one of the supports for retaining the platen against rotation, said last named means comprising an elongated plate carried at one end by the platen and having end recesses therein each disposed a like distance from the axis of rotation of said platen afforded by its trunnion mounting, and a lock pin projecting from the adjacent support and receivable in one or the other of said recesses.

1,942,748
METHOD AND APPARATUS FOR PROJECTING TWO OR MORE ACTIONS OR SCENES AT THE SAME TIME
Vincent C. de Ybarrondo, Los Angeles, Calif., assignor to Patco, Inc., Los Angeles, Calif., a corporation of California
Application December 13, 1929
Serial No. 413,833
6 Claims. (Cl. 88—16.2)



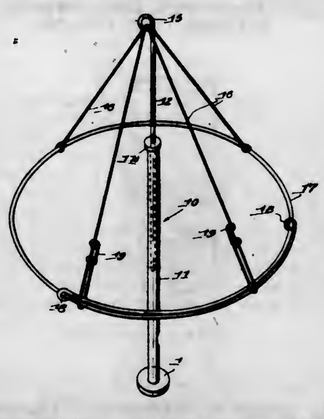
6. An apparatus of the character described, including: means for projecting to separate screens a plurality of motion pictures, the action of one of said motion pictures being related to the action of another of said motion pictures, the two actions being necessary to the presentation of a complete motion picture sequence; and a plurality of sound reproducing means for separately reproducing sound to accompany the different actions projected by said projecting means.

1,942,749
SELVEDGE PRINTING MACHINE FOR PRINTING TRADE-MARKS ON CLOTH AND THE LIKE
George Durrant and Cyril Latham Durrant, Stockport, England
Application October 8, 1932, Serial No. 636,833, and in Great Britain October 31, 1931
5 Claims. (Cl. 101—298)



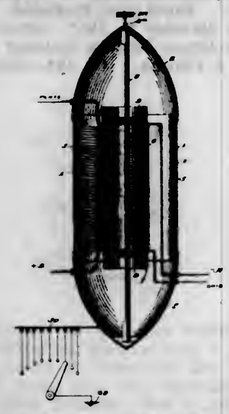
1. A selvedge printing or stamping machine comprising a type holding plate movable towards and away from the fabric to be printed, an inking roller movable over and away from the type holding plate, a lever member carrying the inking roller, a bell-crank carrying such lever member, a sliding rod for moving the type holding plate on to the fabric, and a reciprocating member adapted in one direction of its movement to engage one arm of the bell-crank and move the inking roller over the type, and in the other direction of its movement to engage the rod and press the type against the fabric, as set forth.

1,942,750
PLANT SUPPORT
Frederick W. Eue, St. Paul, Minn.
Application July 11, 1932. Serial No. 621,898
3 Claims. (Cl. 47—47)



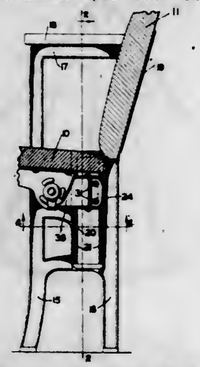
1. A support for a plant having roots located near the surface of the ground comprising, a standard having a blunt base adapted to rest on the surface of the ground above said roots without substantial penetration, a substantially horizontally disposed ring adapted to encircle the plant and to afford a common rest for the peripheral shoots, stalks or branches thereof and flexible means supporting said ring on said standard, said standard being freely tiltable and being retained in substantially upright position solely by said flexible means and ring in engagement with the plant.

1,942,751
RADIO RECEIVING APPARATUS
Russell G. Evans, Detroit, Mich.
Application April 25, 1929. Serial No. 358,102
6 Claims. (Cl. 171—119)



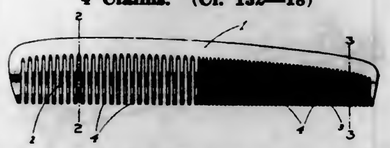
1. In combination, a transformer, a condenser shield enveloping the transformer said condenser shield being cylindrical; and an axially disposed tube of insulating material journaled within the condenser; the secondary coil of the transformer being wrapped around the tube; and the primary coil of the transformer being interposed between the tube and the inner periphery of the condenser.

1,942,752
SEAT HANGER
William A. Gedris, Grand Rapids, Mich., assignor to Ideal Seating Company, Grand Rapids, Mich., a corporation of Michigan
Application November 9, 1931. Serial No. 574,007
3 Claims. (Cl. 155—86)



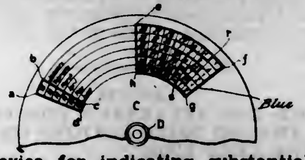
2. An article of manufacture adapted to be placed between a row of individual seats positioned in a curved line whereby they may be properly supported comprising a standard, hinge holders, having their central portions recessed, located on opposed sides of the standard, hinge members having spaced apart ears extending therefrom, said hinge members being positioned on the outer sides of the hinge holders, means extending between the hinge members and also extending through the recessed portions of the said hinge holders whereby both are maintained in position, and arms pivoted to the aforesaid ears and extending outwardly therefrom and adapted for connection to the respective adjacent individual seats, said pivotal connection being of predetermined tightness and being independent of the said clamping means.

1,942,753
BEAD TIP HAIR TOOTH COMB
Oliver Griffin, Escondido, Calif.
Application November 19, 1932
Serial No. 643,435
4 Claims. (Cl. 132—18)



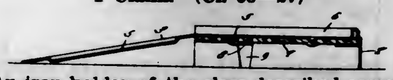
4. A comb having the tips of its teeth broadened in a direction transversely of the length of the comb, such broadened tips being circular in form where a smooth curved surface will be presented against the head of the user irrespective of the angle at which the comb may be drawn through the hair.

1,942,754
TIME INTERVAL INDICATOR
Heinrich Heyssler, Stubing, Austria
Application December 5, 1930, Serial No. 500,411, and in Austria February 1, 1930
11 Claims. (Cl. 40—115)



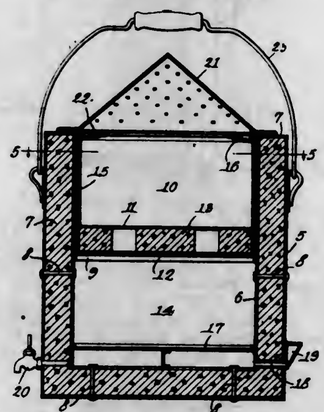
1. A device for indicating substantially the conceptive periods of females which comprises in combination a disc provided with sets of indications upon one side thereof, said sets of indications comprising successive numerals representing the days of a month followed by successive numerals representing an initial number of the days of the following month, a member adjustable relatively to said disc provided with successively spaced indicating means operable to indicate any selected day corresponding to the date of beginning of a menstrual period, a second indicating means arranged to indicate a plurality of days corresponding to the conceptive period within the said menstrual period, the space between the said indicating means corresponding to the first period of physiological sterility within the said menstrual period.

1,942,755
IRON HOLDER
Harry I. Holstrom, Chicago, Ill.
Application March 3, 1933. Serial No. 659,552
1 Claim. (Cl. 68—27)



An iron holder of the class described comprising a stand having a top part, depending flanges at the ends and rear side of the top part, a bead extending upwardly from the top part at the two ends and rear side thereof, an inclined ramp extending from the front edge of the top part to the board and having small holes in its lower corners for receiving thumb tacks to fasten the holder to a board, a sheet of non-conducting material located on the under face of the top part of the stand and extending to the flanges and said end and rear flanges having tongues cut therefrom, bent up against the sheet to hold the same in place and the spaces left by the tongues extending to the bottom of the flanges and forming openings for escape of heated air collecting under the top part.

1,942,756
MINNOW BUCKET
John R. Howard, Concord, N. C.
Application June 3, 1932. Serial No. 615,221
4 Claims. (Cl. 43—56)



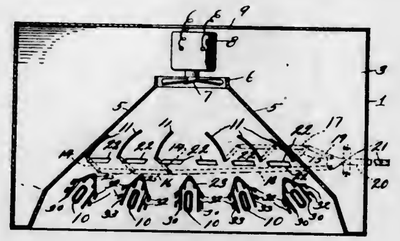
1. A minnow bucket comprising a body portion including an outer casing and an inner casing, insulating material between the casings, a supporting flange within the inner casing, a fish container resting on the flange and providing an ice compartment between the container and bottom of the body portion, said fish container having an auxiliary bottom insulated from the bottom of the container, the main bottom of the container having openings to allow cold from the ice in the ice compartment to radiate to the fish container, and a cover for the bucket.

1,942,757
RESINOUS COATING COMPOSITION
John W. Iliff, Ridley Park, and Harry R. Young, Philadelphia, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 20, 1930
Serial No. 476,719
3 Claims. (Cl. 134—26)

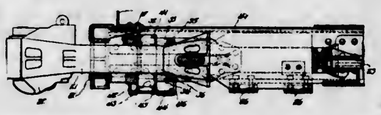
1. A coating composition comprising a petroleum hydrocarbon solvent having a boiling range not greater than about 30° C. which lies within the range of temperature of about 150° C. to about 250° C., an oxidizable polyhydric alcohol-polybasic acid resin insoluble when oxidized in the solvent, and an oxidation inhibitor for the resin.

1,942,758
ELECTRIC HEATER
George Leroy Jessup, Woodland, Calif.
Application May 4, 1932. Serial No. 609,311
6 Claims. (Cl. 219—39)

1. A heating device comprising a casing, heating elements in said casing, shields arching the rear sides of said elements, two series of vertically disposed hinged dampers rearwardly of the shields, a sliding control lever carried by the casing, arms carried by the dampers, connecting rod connections between the arms and link connection between the connecting rods and the sliding control lever and forming means whereby when the lever is moved in opposite direction the two series of dampers will also move in opposite direction to open or closed positions.



1,942,759
COUPLER
Edmund P. Kinne and Frank H. Kayler, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 7, 1928. Serial No. 304,416
16 Claims. (Cl. 213—71)

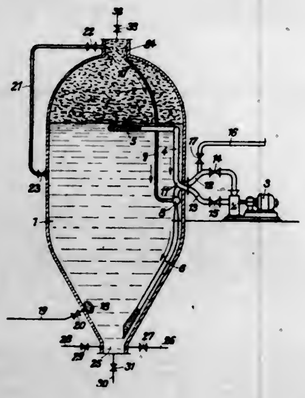


2. In a draft assembly, the combination of draft sills, draft members including a yoke, a coupler having a shank extending into said yoke, cheek plates carried by said sills and having keyways formed therein, a follower retained in said yoke by a key extending through said keyways, said follower having a surface cooperating with a complementary surface on the coupler shank to provide for the transmission of buffing forces therebetween while permitting lateral angling of said coupler, and means on said yoke for maintaining said follower in its cooperating relation with said shank.

1,942,760
PROCESS FOR MAKING PULP FROM FIBROUS MATERIAL
Otto Kreissler, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y., a corporation of New York
Application September 30, 1932, Serial No. 635,673, and in Germany February 17, 1932
14 Claims. (Cl. 92—7)

1. A process for making pulp from fibrous material with sulphite liquor which comprises charging the digester before cooking begins with a quantity of liquor which is smaller than usual by the amount that would otherwise have to be removed by relieving and blowing-off, without reducing the quantity of wood charged into the

digester, and irrigating the wood above the level



of the liquor with cooking liquor and thereupon carrying out the cooking in the usual manner.

1,942,761

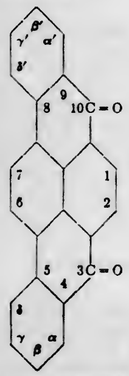
HALOGEN DERIVATIVES OF ISODIBENZOPYRENEQUINONES

Max Albert Kunz, Mannheim, and Karl Koeberle, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application December 3, 1929, Serial No. 411,383, and in Germany December 10, 1928

12 Claims. (Cl. 260—61)

9. As new articles of manufacture, halogenated 4.5.8.9-dibenzopyrene-3.10-quinones probably corresponding to the formula:



in which the γ and γ' positions are unsubstituted by halogen and at least one of the α, β, and α', β' positions is substituted by halogen, the said halogen compounds dyeing vegetable fibres essentially more reddish shades than the unhalogenated initial material and with a less bluish tinge than the isomeric 4.5.8.9-dibenzopyrene-3.10-quinones halogenated in chlorsulfonic acid, which new halogen compounds are obtainable by halogenating 4.5.8.9-dibensopyrene-3.10-quinones in organic solvents.

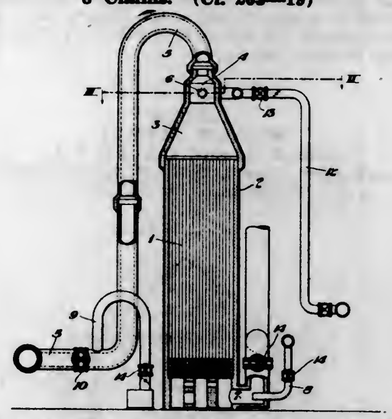
1,942,762

HOT BLAST STOVE

Frank R. McGee, Steubenville, Ohio

Application March 14, 1932. Serial No. 598,834

8 Claims. (Cl. 263—19)



1. A hot-blast stove including brick checker-work, a combustion chamber for heating said checker-work, a hot-blast main leading from said chamber, means for closing said main at a remote point from said chamber, means for passing air through said main to said chamber while said first named means is closed and means for introducing combustible gases to said combustion chamber.

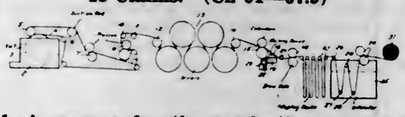
1,942,763

PROCESS FOR MARKING FELT AND THE RESULTANT PRODUCT

William R. Menshon, Roselle Park, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey

Application July 24, 1931. Serial No. 552,901

15 Claims. (Cl. 91—67.9)



1. A process for the production of bitumen saturated base having indicia thereon, which comprises applying a suspension of metallic powder in a dilute silicate solution to the base to form the indicia thereon, and thereafter saturating the base with bituminous material.

1,942,764

PROCESS AND APPARATUS FOR COOLING AND GRANULATING RESIN

Stuart P. Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey

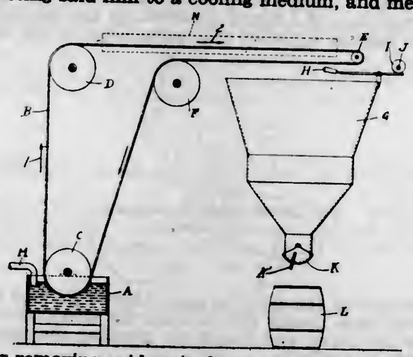
Application February 28, 1929. Serial No. 343,525

10 Claims. (Cl. 83—91)

1. A process which comprises forming a film of resin in molten condition, said film having projections substantially uniformly distributed thereon, cooling the film to cause the resin to solidify, and granulating the resultant solidified resin.

9. An apparatus for cooling molten resin comprising a movable foraminous belt supported and arranged to move in two planes, means positioned in one of said planes for depositing molten resin

on said belt, said belt during its movement subjecting said film to a cooling medium, and means



for removing said resin from said belt while it is moving in said other plane.

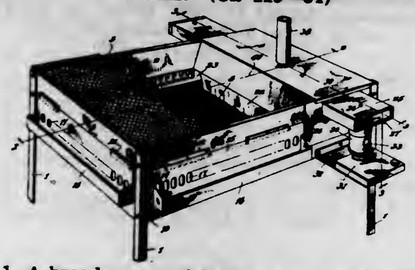
1,942,765

BROODER

Lee F. Mott, Yankton, S. Dak.

Application April 13, 1932. Serial No. 605,007

7 Claims. (Cl. 119—34)



1. A brooder comprising an open top frame, a reticulated cover secured over the open top of the frame, a floor of open mesh material within the frame, a hover supported in the frame at one end of the same, a heat flue extending across the frame above the hover and having its ends projecting laterally beyond the frame and its intermediate portion provided with an outlet, and means for supplying heat to the flue at the projecting ends thereof.

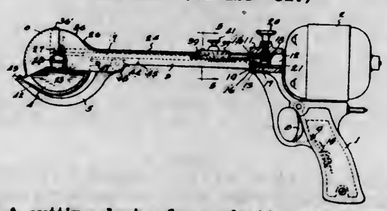
1,942,766

SURGICAL INSTRUMENT

John W. O'Banion, Yuba City, Calif.

Application February 8, 1932. Serial No. 591,693

5 Claims. (Cl. 128—317)



3. A cutting device for a plaster cast comprising a pistol grip having a shank extending therefrom, a motor mounted on the pistol grip having a shaft extending through the shank, a rotary cutter mounted on the end of the shank, a driving connection between the shaft and the cutter, a guide for the cutter, a movable guard for the cutter and a member slidable on the shank having means for moving the guard.

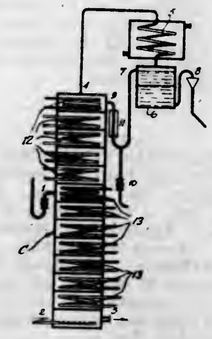
1,942,767

METHOD OF DISTILLING NONMISCIBLE SUBSTANCES IN COLUMNS

Erik Öman, Stocksund, and Sven Harald Ledin, Stockholm, Sweden,

Application February 27, 1931, Serial No. 518,826, and in Sweden March 3, 1930

4 Claims. (Cl. 202—40)



1. Method of distilling resins, products of resins, and resinous substances in liquid state with the vapor of a liquid which in liquid state is not miscible therewith, in a column constituted by a still and a superposed communicating rectifier each comprising a plurality of communicating chambers, characterized in that the resinous substance to be distilled, in liquid state, is introduced into the uppermost chamber of the still and the said vapor is introduced into the lowermost chamber of the still, and in that said still is heated at different temperatures at different points from top to bottom thereof, the temperature increasing by stages downwardly through the still, while in said rectifier a temperature is maintained at the bottom thereof substantially identical with the temperature maintained in the top of the still, the temperature decreasing by stages upwardly through the rectifier, by independently heating the column at each of a plurality of points therealong.

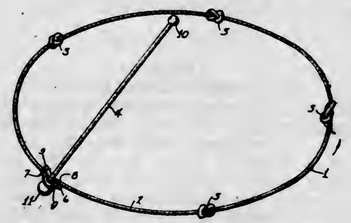
1,942,768

SPINNING ROPE

James R. O'Neil, San Francisco, Calif.

Application November 7, 1932. Serial No. 641,635

8 Claims. (Cl. 46—37)



1. A spinning rope comprising a loop of fixed length, an adjustable stem slidably connected therewith and different sized weights disposed at the ends of the stem.

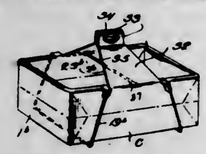
1,942,769
FLY ASH STRUCTURAL MATERIAL
Harry C. Peffer and Paul W. Jones, La Fayette, Ind., assignors to Restone, Incorporated, La Fayette, Ind., a corporation of Indiana
No Drawing. Application October 30, 1931
Serial No. 572,214
18 Claims. (Cl. 18—47.5)

1. The herein described process of producing an artificial structural material; consisting in reburning fly ash produced by burning finely divided coal of the bituminous class, slaking the reburned fly ash, mixing the slaked fly ash with an alkaline earth base, shaping the mass and indurating the shaped mass.

1,942,770
FLY ASH STRUCTURAL MATERIAL
Harry C. Peffer and Paul W. Jones, La Fayette, Ind., assignors to Restone, Incorporated, La Fayette, Ind., a corporation of Indiana
No Drawing. Application October 17, 1932
Serial No. 638,259
42 Claims. (Cl. 18—47.5)

22. The process of making an artificial structural material; consisting in mixing fly ash, an alkaline earth base and water, shaping the mass, and indurating the shapes.

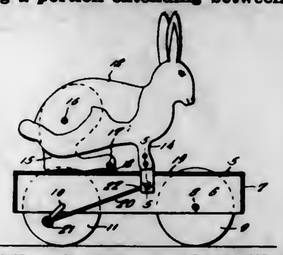
1,942,771
COLLAPSIBLE CONTAINER
John H. Phillips, Pittsburgh, Pa.
Application April 13, 1932. Serial No. 605,101
6 Claims. (Cl. 229—41)



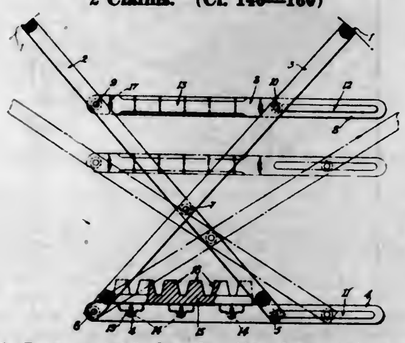
4. A collapsible container comprising a body and handle means therefor formed from a single piece of foldable material, a supporting frame comprising side and end portions connected to the body at its upper edge, anchor means connected to the respective side portions at points spaced from their ends, frame-supporting leg and body reinforcing and supporting elements adapted to embrace the body and movably connected to said anchor means, brace and retaining means carried by the anchor means adapted to maintain the legs in frame-supporting position, whereby said body is adapted to be folded into substantially flat superimposed relation with respect to the frame and said legs into overlapping and overlying relation with respect to said body.

1,942,772
FIGURE WHEELED TOY
Harold R. Rahm, Colorado Springs, Colo.
Application July 18, 1933. Serial No. 681,009
2 Claims. (Cl. 46—45)

1. In a wheeled figure toy of the class described, a platform having a slot, wheels, means for mounting the platform on the wheels, a pair of plates slidable in the slot, each plate comprising a lower vertical portion merging at its upper end into an outwardly extending portion folded on itself and terminating in a rising extension, the first mentioned portions being in abutment with each other and a pin extending therethrough, means operatively connecting the pin with the wheel structure to impart a sliding movement to the plate in the slot when the toy is moved, and a figure mounted on the platform and having a portion extending between the extensions of the plate to move therewith, rear leg structures, means for pivoting the structures on the platform, and means for pivoting the structures on the body.



1,942,773
DEVICE FOR SUBDIVIDING VEGETABLES AND THE LIKE MATERIALS
Joseph Rathmill, Warrington, England, assignor of one-half to Thomas M. Nutbrown, Limited, Blackpool, England
Application August 13, 1932, Serial No. 628,650, and in Great Britain August 28, 1931
2 Claims. (Cl. 146—160)



1. In a portable hand cutter for potatoes and like rigid-foodstuffs comprising upper and lower opposed presser members, one carrying crossed knives with quadrilateral spaces between them and the other carrying an extrusion member with quadrilateral projections to pass into such spaces, and crossed pivoted levers connecting the presser members together, a lower presser member in the form of two longitudinal strips of ribbon metal, cross-strips notched into and connecting together the longitudinal strips and staples in the back of the extrusion member shaped and positioned so as to encircle the cross-strips and hold the extrusion member to the presser member, and grooves in the back of the extrusion member in which the cross-strips lie.

1,942,774
PRINTING SILK WITH CHROME DYESTUFFS
Jean-Jacques Roulet, Basel, Switzerland, assignor to firm: Durand & Huguenin S. A., Basel, Switzerland
No Drawing. Application October 10, 1932, Serial No. 637,213, and in Germany October 22, 1931
4 Claims. (Cl. 8—5)
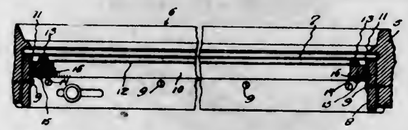
1. A process for printing natural silk with chrome dyestuffs, with the aid of gum thickening and a chrome mordant, said process producing vivid prints of soft feel and of good fastness and consisting in incorporating in a printing paste a watersoluble salt of hydrosulphocyanic acid, an aliphatic polyalcohol and a body of the urea group and then printing the paste thus prepared on the fabric, whereupon the usual further operations for the purpose specified may follow.

1,942,775
OPTICAL LENS AND METHOD OF MAKING SAME
Henry M. E. Sachs, South Bend, Ind., assignor of one-half to Robert Malcom, Chicago, Ill.
Application March 10, 1932. Serial No. 597,942
3 Claims. (Cl. 88—54)



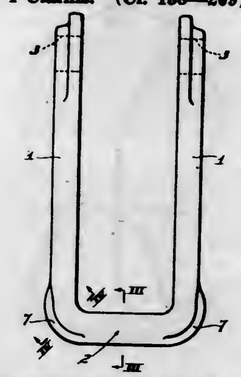
2. An optical lens comprising a major portion of preselected index of refraction for distance vision and having a convex exterior surface; a minor portion of index of refraction different from that of the major portion, for near vision, disposed intermediate of the axis of the major portion and an edge of the major portion and extending to said edge, said minor portion being intimately connected to the major portion; and a third portion of the same index of refraction as said major portion and of transverse dimension less than the transverse dimension of said minor portion and arranged substantially at the axial center of the major portion and overlapping the adjacent part of the minor portion, said third portion being intimately connected with the major portion and the overlapped part of the minor portion; the exterior surfaces of the minor and third portions being entirely disposed in the plane of the convex surface of the major portion.

1,942,776
WINDOW SCREEN FOR AUTOMOBILES
Lewis H. Schafer, Mechanicville, N. Y.
Application September 23, 1933
Serial No. 690,731
3 Claims. (Cl. 156—14)



1. A screen for an automobile window having a vertically slidable pane, and wherein the walls of the window opening inwardly of said pane are formed by molding strips secured in place by screws passing through the molding strips and into the surrounding portion of the automobile, comprising a rigid frame shaped and proportioned to substantially fill the window opening inwardly of the sash and to assume a position between said sash and the securing screws for the molding strips, angular brackets rigidly secured to the inner sides of the end rails of the screen frame intermediate the ends of said rails, said brackets having laterally projecting outer ends arranged to flatly engage the side molding strips of the window and apertured to receive adjacent securing screws for said molding strips to rigidly secure the screen in place within the window opening, said screen frame having a sheet of screen fabric secured thereto with its margin clamped against the outer face of the screen frame.

1,942,777
BRAKE HANGER
Frederic Schaefer, Pittsburgh, Pa.
Original application March 12, 1930, Serial No. 435,266. Divided and this application September 7, 1932. Serial No. 631,975
4 Claims. (Cl. 188—209)



1. A brake hanger having side arms and an integral transverse yoke, the yoke and side arms being of substantially equal cross-sectional area throughout, and the yoke having arcuate main and secondary bearing surfaces of large and small areas, respectively, and having substantially plane-faced converging sides joining the edges of said main and secondary bearing surfaces.

1,942,778
CASTOR OIL DERIVATIVE DRYING OIL AND PROCESS OF PRODUCING THE SAME
Johannes Scheiber, Leipzig, Germany
No Drawing. Application February 7, 1929, Serial No. 338,318, and in Germany February 20, 1928
8 Claims. (Cl. 260—8)

5. A reaction product comprising an ester of an aliphatic polyhydric alcohol and octadekadienic-9, 11-acid 1.

8. A reaction product comprising esters of glycerol, octadekadienic-9, 11-acid 1, and unsaturated fatty acids of natural drying oils.

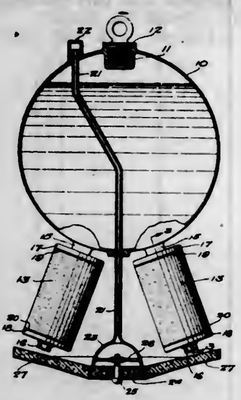
1,942,779
ALLOY STEEL
Hermann Josef Schiffler, Dusseldorf, Germany
No Drawing. Application December 3, 1928, Serial No. 323,572, and in Germany January 19, 1928
2 Claims. (Cl. 75—1)

1. A rolled, drawn, punched or forged steel material, scale proof up to 800° C., which is made of a low alloyed soft steel containing about 2.8% of aluminum, about 0.8% of chromium, about 0.1% of molybdenum, and about 0.1% of tungsten, while the balance consists of iron besides the usual non-metallic constituents and is free from further alloying constituents.

1,942,780
VENTING DEVICE FOR LIQUID RESERVOIRS
Emil Schneider, Philadelphia, Pa.
Application May 17, 1932. Serial No. 611,776
6 Claims. (Cl. 299—23)

3. The combination, with a liquid reservoir having a closed top, of means for controlling the flow of liquid therefrom, said means comprising

a vent pipe extending to the top of the reservoir, and a porous member mounted on the lower end of said vent pipe, said porous member being adapted when in a dry condition to permit air



to pass therethrough but forming a seal when moisture is contained within the pores thereof; and means for directing liquid from the reservoir to the porous member to seal the vent pipe and thus stop the flow of liquid from the reservoir.

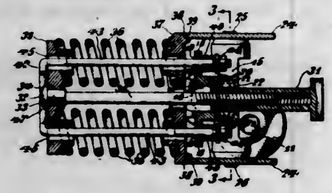
1,942,781

SAFETY MEANS FOR CHAIRS

William A. Sengpiel, Philadelphia, Pa., assignor to The Sikes Company, Philadelphia, Pa., a corporation of Delaware

Application April 4, 1931. Serial No. 527,642

8 Claims. (Cl. 155—77)



1. In a chair, the combination of a chair iron, a seat, means pivotally connecting said seat to the said chair iron, spring means tending to cause pivotal movement of said seat in one direction and resisting pivotal movement thereof in the opposite direction, including means for holding and tensioning the springs of said spring means, and supplemental means for holding said springs when the means for holding and tensioning the said springs becomes ineffectual.

1,942,782

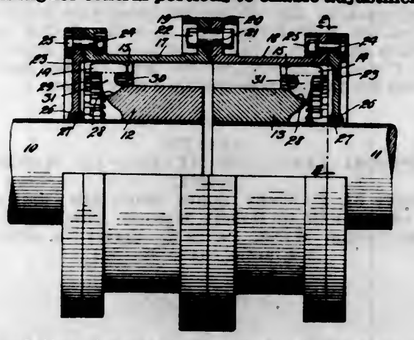
FLEXIBLE COUPLING

Robert A. Smith, Mahwah, N. J., assignor to Smith & Serrell, Elizabeth, N. J., a copartnership consisting of Robert A. Smith and John J. Serrell

Application August 6, 1930. Serial No. 473,338

7 Claims. (Cl. 64—96)

1. In a flexible coupling, the combination of an internal gear and an external gear cooperating therewith and having flexibly mounted teeth capable of rotative movement on their radial axes to absorb shocks and permit adjustment between the gears, the ends of the teeth being formed with higher central portions to enable adjustment



for relative changes in direction of the axes of rotation.

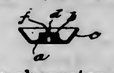
1,942,783

ORIFICE DISK FOR STEAM RADIATORS

Webster Tallmadge, Montclair, N. J., assignor to Webster Tallmadge & Company Inc., New York, N. Y., a corporation of New York

Application February 21, 1931. Serial No. 517,391

5 Claims. (Cl. 137—75)



1. A device of the character described consisting of a cupped disk having only a flanged rim of soft metal offset at an angle of approximately 54° and a relatively thick central part of harder metal with restricted axial bore providing an elongated cylindrical orifice of relatively small diameter.

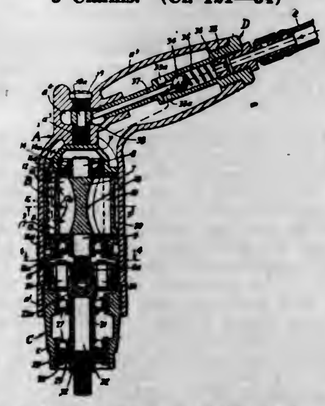
1,942,784

FLUID PRESSURE TOOL

Franklin E. Terrill, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Application December 4, 1930. Serial No. 499,871

5 Claims. (Cl. 121—34)



1. In a fluid pressure portable tool, a hollow casing providing a cylindrical chamber of substantial length open at one end and with a reduced open bore at the other end, said chamber being arranged to receive therein the motor and transmission mechanism through said open end, and control mechanism for the pressure fluid

having an operating member, said reduced bore being provided for the double purpose of providing means for ejection of the motor and transmission mechanism and for supporting said operating member.

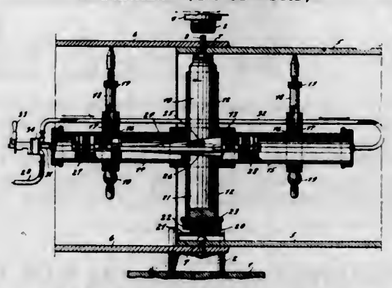
1,942,785

RIVETING JACK

James E. Trainer, Barberton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey

Application July 30, 1928. Serial No. 296,223

8 Claims. (Cl. 78—53.5)



1. In a device for riveting a drum, an expansible strut disposed in said drum and comprising two rams, one of said rams having a rivet die, a wedge between the adjacent ends of said rams, pistons connected to opposite ends of said wedge and moving in cylinders, and means to operate the pistons to move the wedge in opposite directions.

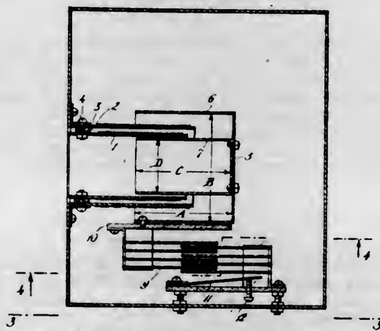
1,942,786

COUPLING SYSTEM

Lincoln Walsh, Elizabeth, N. J., assignor to Hazeltine Corporation, Jersey City, N. J., a corporation of Delaware

Original application September 26, 1927, Serial No. 222,009. Divided and this application June 22, 1932. Serial No. 618,681, and in Canada December 14, 1927

9 Claims. (Cl. 250—16)



1. In a vacuum tube coupling system, a radio-frequency transformer comprising a pair of coils each having an axis, a metallic structure adapted to be moved coaxially with respect to said coils and means for moving said structure relative thereto, said structure comprising a member of electrically conducting material having a cylindrical slot within which said coils may be inserted, whereby said structure is adapted to variably envelop said coils when moved relatively thereto.

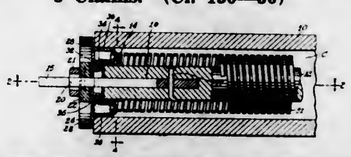
1,942,787

SHADE ROLLER

Harry W. Watts, Maplewood, N. J., assignor to Stewart Hartshorn Company, East Newark, N. J., a corporation of New Jersey

Application April 22, 1933. Serial No. 667,328

3 Claims. (Cl. 156—36)



1. A spring shade-roller bearing unit comprising a pawl-carrying member having an opening therein, a bearing ring provided with a skirt portion and having a shoulder portion and an outwardly upset flange between which and said shoulder the marginal portion of said pawl-carrying member adjacent the opening thereof is confined, a spear, and a bearing element carried by said spear and confined within said skirt portion and there serving as a bearing member about which said bearing ring with its associated pawl-carrying member can rotate.

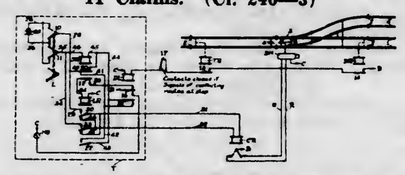
1,942,788

INTERLOCKING SYSTEM FOR RAILROADS

Sedgwick N. Wight, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application July 11, 1930. Serial No. 467,222

11 Claims. (Cl. 246—3)



1. In an interlocking system for railroads; the combination with a traffic controlling device; of a free mechanically non-lockable lever having two extreme positions for controlling such traffic controlling device to corresponding extreme positions; means for preventing said traffic controlling device being controlled by said lever under unfavorable conditions; and other means for permitting control of said traffic controlling device by said lever which requires movement of said lever simultaneously with favorable traffic conditions comprising; a normally energized stick relay, and a pick up circuit for said stick relay closed under unfavorable traffic conditions.

1,942,789

APPARATUS FOR PARALLELING SYNCHRONOUS MACHINES TO MAINTAIN RECIPROCATING ENGINES OR PUMPS IN SYNCHRONISM

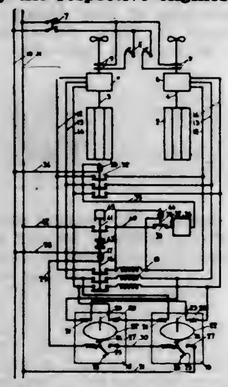
William Wilson, Erdington, Birmingham, and Sydney Albert George Emms, Leamington Spa, England

Application January 14, 1932, Serial No. 586,542, and in Great Britain January 14, 1931

5 Claims. (Cl. 171—118)

2. In an arrangement of the kind specified in which a pair of engines drive respectively a pair of synchronous dynamo electric machines arranged to be paralleled so that the engines will rotate in parallelism and at the same speed, apparatus comprising paralleling means arranged

automatically to effect a tentative paralleling of the dynamo electric machines when they are being driven in substantial synchronism and means operated by the respective engines for joint co-



operative action to complete the paralleling of said machines when the latter are in synchronism, the last named means becoming effective only when the engines are also in synchronism.

1,942,790

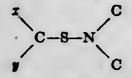
VULCANIZATION ACCELERATOR

Ewald Zaucker and Max Bögemann, Cologne-Mulheim, and Ludwig Orthner, Leverkusen-I. G. Werk, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application March 9, 1932, Serial No 597,806, and in Germany March 11, 1931

18 Claims. (Cl. 18—53)

1. Vulcanization accelerators consisting of organic compounds containing the grouping:—



wherein x and y mean vicinal carbon atoms of an aromatic nucleus, or x means nitrogen and y sulfur, oxygen or the —NH—group.

1,942,791

ELECTRODE FOR SECONDARY CELLS

Karl Ackermann, Mannheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application February 18, 1930, Serial No. 429,462, and in Germany February 20, 1929

4 Claims. (Cl. 136—25)

1. As new articles of manufacture, electrodes for storage batteries comprising a porous, ferrous electrode body, in which the walls of the pores are provided with a coating of a metal selected from the group consisting of nickel and cobalt, and in which the pores are provided with an active mass.

1,942,792

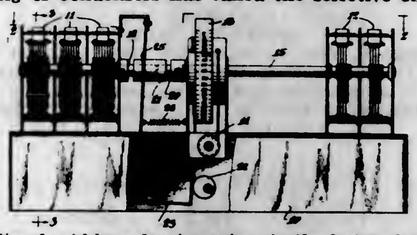
RADIORECEIVER

Joseph H. Appel, Jr., Scarsdale, N. Y.

Application January 12, 1932. Serial No. 586,131

2 Claims. (Cl. 250—20)

1. In combination, a broadcast receiver, a short wave converter adapted to deliver a constant heterodyne signal to said receiver, a gang of variable condensers for tuning the selective circuits of said receiver, another gang of condensers for tuning the selective and oscillator circuits of said converter, a single dial for operating both of said gangs of condensers, an indicator for indicating when said first mentioned gang of condensers has tuned the selective cir-



cuits of said broadcast receiver to the heterodyne signal delivered by said converter, and means for disconnecting said first mentioned gang of condensers from said dial, whereupon the dial may then be used to adjust only the gang of condensers associated with the short wave converter.

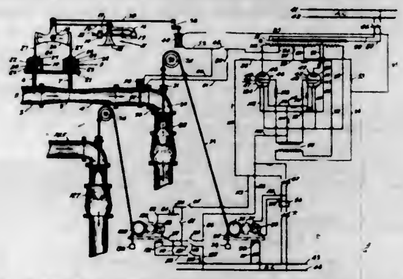
1,942,793

APPARATUS TO CONTROL THE FLOW OF FLUIDS THROUGH CONDUITS

William H. Bailey, Pueblo, Colo., assignor to The Colorado Fuel and Iron Company, Denver, Colo.

Application October 5, 1931. Serial No. 567,114

2 Claims. (Cl. 48—180)



1. A fluid supply system, comprising a conduit for gas, a conduit for air, valves for the conduits, a Venturi tube in the gas conduit, a differential manometer connected to be operated by a change in the velocity of the gas through said tube, an electric circuit connected to be operated by the manometer, and electric means in the circuit adapted to control the valves in the conduits.

1,942,794

SPEED REDUCER

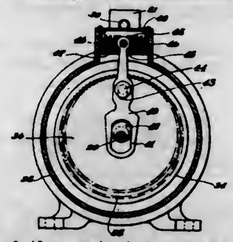
Melvin B. Benson, New York, N. Y., assignor, by mesne assignments, to Melvin B. Benson Corporation, New York, N. Y., a corporation of New York

Application February 5, 1931. Serial No. 513,571

19 Claims. (Cl. 74—35)

1. In a power transmission and speed reduction system, a frame, a driven internal gear element, a drive shaft and eccentric carried by said shaft, a gyrating gear carried by and journalled upon said eccentric and adapted to traverse said driven gear, a rotation restraining means for the gyrating gear including a member pivotally fastened at one end to the framework and operatively engaged with the drive shaft at its other

end to oscillate proportionally to but through greater amplitudes than the gyrating gear, and rotation restraining means between the gyrat-



ing gear and the restraining member intermediate its ends locking the gear against rotation in either direction.

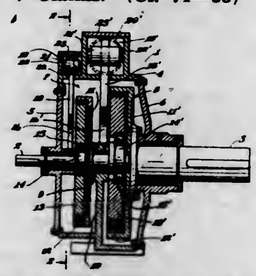
1,942,795

POWER TRANSMISSION AND SPEED REDUCTION SYSTEM

Melvin B. Benson, New York, N. Y., assignor, by mesne assignments, to Melvin B. Benson Corporation, New York, N. Y., a corporation of New York

Application February 5, 1931. Serial No. 513,572

7 Claims. (Cl. 74—35)



1. A speed reduction unit comprising a casing, a drive shaft, a driven shaft, an internal gear element driving said driven shaft, an eccentric driven by the drive shaft, an intermediate gear of a lesser number of teeth than the internal gear journalled upon said eccentric and caused to traverse the internal gear element when the eccentric is rotated, a chamber in said casing having a sliding bearing block therein, a spring mechanism biasing said bearing block, and a rotation restraining arm projecting from the intermediate gear and having a pivotal connection with the bearing block permitting inclinations of the arm with respect thereto.

1,942,796

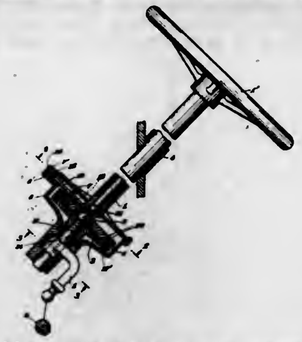
REDUCTION GEAR DRIVE

Melvin B. Benson, New York, N. Y., assignor, by mesne assignments, to Melvin B. Benson Corporation, New York, N. Y., a corporation of New York

Application April 11, 1931. Serial No. 529,390

1 Claim. (Cl. 74—35)

A gearing system including an internal gear member connected with the device to be driven, a drive shaft, an eccentric carried by said shaft, a gyrating gear journalled on said eccentric and caused to traverse said internal gear by the rotation of said shaft and eccentric and means for preventing rotation of the gyrating gear and for maintaining a uniform drive ratio throughout the cycle, comprising an arm mounted at one end by means of a second eccentric operating in timed relation with the first named eccentric but having a greater eccentricity than that of the first named eccentric, said arm being pivotally and



reciprocably connected with the frame at the other end and having intermediate its ends a rotation restraining connection with the gyrating gear permitting relative radial movements.

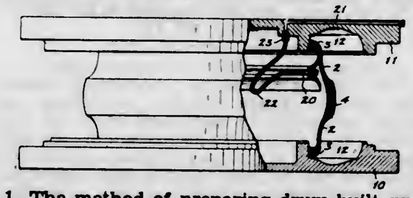
1,942,797

METHOD OF PREPARING TIRE CASINGS FOR VULCANIZATION

Charles E. Bittaker, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application October 22, 1931. Serial No. 570,329

5 Claims. (Cl. 18—56)



1. The method of preparing drum built pneumatic tire casings for vulcanization, which consists in positioning an annular sealing ring within and in abutting relation against the inner periphery of a drum built tire casing band, positioning said band between a pair of mating mold sections radially inwardly of and coaxial with the mold cavities of said sections, moving said sections toward each other to clamp said sealing ring between the beads of said tire casing band and from an air-tight seal, and subsequently pneumatically expanding said band into its substantially final shape within the mating molding cavities of said sections.

1,942,798

LOADING MACHINE

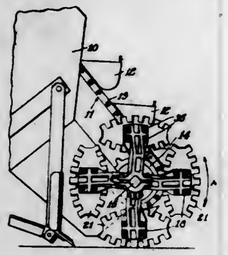
William H. Bosworth, Yonkers, N. Y., assignor to George Haiss Manufacturing Co. Inc., New York, N. Y., a corporation of New York

Application August 9, 1932. Serial No. 628,019

2 Claims. (Cl. 198—9)

1. In a loading machine of the endless conveyor type, a feeding mechanism adapted for use at the pick-up end of the conveyor and comprising a shaft projecting beyond the conveyor at opposite sides thereof and adapted for rotation simultaneously with the operation of the conveyor, a plurality of blade-carrying arms connected to said shaft at opposite sides of said conveyor in a spaced relation to each other and having

oppositely inclined faces, a plurality of blades adapted for connection with said arms in a face-to-face relation to said faces, and which when so connected serve to move the material into the path of the conveyor from opposite sides thereof, each of said arms bearing such a struc-



tural relation to all of said blades that any one of said blades is adapted to be received by any one of said faces and to be there secured in an operative position, and means for detachably connecting said blades to said arms and for holding the same in a face-to-face relation to said faces.

1,942,799

NEGATIVELY CHARGED ALUMINUM GEL

Pearl H. Brewer and Henry R. Kraybill, West Lafayette, Ind., assignors to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana

No Drawing. Application March 26, 1932
Serial No. 601,455
6 Claims. (Cl. 23—143)

1. A negatively charged aluminum gel.

5. The process of making a negatively charged aluminum gel, which consists in adding ammonium hydroxide to aluminum sulphate until the solution is alkaline to litmus, adding an additional amount of aluminum sulphate substantially equal to the original amount and thoroughly mixing, permitting a white gelatinous precipitate which has formed to settle and removing the supernatant liquid, and repeatedly adding water to the precipitate, shaking, permitting settling, and removing the clear supernatant liquid, until the ammonium salts are practically all removed.

1,942,800

SODIUM PARA-PHENYLPHENATE AND METHOD OF MAKING SAME

Edgar C. Britton, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application November 6, 1929
Serial No. 405,292
4 Claims. (Cl. 260—154)

1. As a new compound, sodium para-phenylphenate, in the form of white needle-like crystals, containing water of crystallization.

1,942,801

ANTISEPTIC AND GERMICIDE

Edgar C. Britton, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 12, 1930
Serial No. 451,846
6 Claims. (Cl. 167—31)

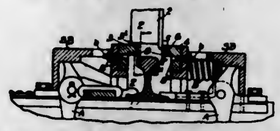
2. An antiseptic and germicidal composition comprising ortho-cyclohexylphenol.

1,942,802

CAR RETARDER FOR RAILROADS

Ned C. L. Brown, Scottsville, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application April 13, 1931. Serial No. 529,650
11 Claims. (Cl. 188—62)



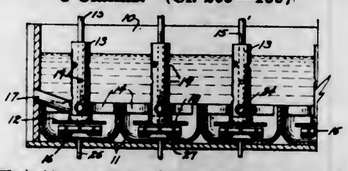
1. In a car retarder, a brake beam, a brake shoe having a shank and a horizontal braking portion projecting from the shank, an attaching bolt fastening the shank to the brake beam at a point flush with the lower face of the braking portion, and a channelled out portion in the lower face of the braking portion at the point of connection by the bolt to facilitate removal of the bolt.

1,942,803

FLOTATION MACHINE

Arthur C. Daman, Denver, Colo.

Application March 9, 1928. Serial No. 260,335
3 Claims. (Cl. 209—169)



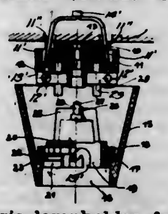
1. Flotation apparatus comprising a tank, a series of bowls in the bottom of the tank adjoining one another for the direct passage of material from one to another in an unobstructed progressive movement, impellers in the bowls to effect said movement, the bowls separately concentrating material to the direct influence of the respective impellers, and leaving an uninterrupted quiescent zone common to all bowls immediately above the same, and a perforated plate above each impeller disposed to intercept material passing to the respective bowl and spaced from the circumferential wall of the bowl to provide an unrestricted annular passage for material moving upwardly under influence of the impeller and restricting the influence of the agitation immediately above the impeller to permit the free settling of solids onto said plate from the quiescent zone above same.

1,942,804

LAMPHOLDER

Fritz Deutsch, Kreuzlingen, Thurgau, Switzerland

Application January 23, 1932. Serial No. 588,307
4 Claims. (Cl. 240—85)



4. In an electric lampholder for ceilings and the like, an insulating mechanical supporting

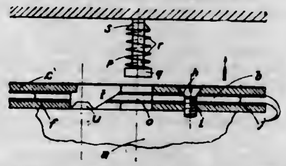
plate mounted to the ceiling, an insulating block connected to the plate, spaced metal members in the block for making contact with the terminals of an electric conductor, and with the lamp, a non-conducting socket member for the lamp having spaced longitudinally extending portions forming an intermediate space, and arms angularly extending from said portions for fitting into the block, said arms having openings, and means passing through the openings of said arms for connecting the socket member to the insulating plate.

1,942,805

GLOBE WITH APPLIANCES MOUNTED FOR ATTACHING THEM

Fritz Deutsch, Kreuzlingen, Thurgau, Switzerland

Application January 23, 1932. Serial No. 588,308
5 Claims. (Cl. 240—128)



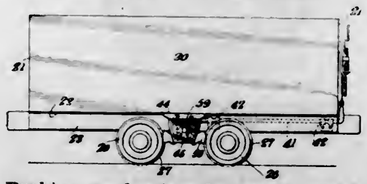
1. An appliance in combination with a glass globe having a rimmed portion, comprising a depending catch pin with a spring and a spring cap thereon, and a pair of segmented flanges, one on either side of the rim portion of the globe and having central openings therein, one of said flanges having leading from the central opening thereof an inclined slotted extension, for insertion of the pin through the openings of said flanges, said spring cap being adapted to glide along the slotted extension to contact tightly therewith whereby a connection is formed between the flanges and the catch pin for retaining the globe.

1,942,806

MINE CAR BRAKE

Peter J. Dhein, Pottsville, Pa.

Application April 22, 1932. Serial No. 606,848
27 Claims. (Cl. 188—55)



1. Braking mechanism for use on wheeled vehicles, comprising freely pivoted brake shoes adapted by virtue of their own weight normally to tend to contact the wheels of the vehicle, means for retaining the brake shoes out of contact with wheels and means associated with the mentioned means to withdraw the retaining means to release the brake shoes for braking contact with the wheels.

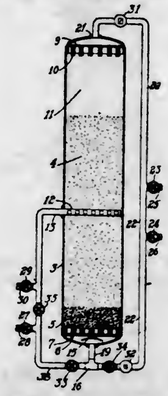
1,942,807

WATER SOFTENING APPARATUS

Andrew J. Dotterweich, Pittsburgh, Pa., assignor to Automatic Water Softener Company, Pittsburgh, Pa., a corporation of Delaware

Application October 1, 1929. Serial No. 396,504
10 Claims. (Cl. 210—24)

1. In a water softening system, the combination of a softener tank having an inlet connection and a plurality of outlet connections arranged so that flow from the inlet to the outlet connections will be in opposite directions, means for conducting regenerating material through the inlet connection to said tank, means for discharging said



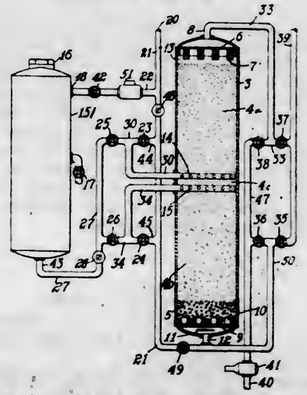
regenerating material through said outlet connections and means for proportioning the flow of regenerating material from the inlet connection to the outlet connections.

1,942,808

WATER SOFTENING APPARATUS

Andrew J. Dotterweich, Pittsburgh, Pa., assignor to Automatic Water Softener Company, Pittsburgh, Pa., a corporation of Delaware

Application October 2, 1929. Serial No. 396,672
16 Claims. (Cl. 210—24)



1. A water softener having, in combination with a bed of water-softening material, means for introducing water thereto, a plurality of outlets arranged relative to the water-inlet means so as to cause the flow of water to the outlets in separate paths through different sections of the bed, means for discharging the flow from said outlets to service, means for effecting discharge of the flow through a selected section of the bed otherwise than to service, and means for introducing regenerating solution into such selected section.

1,942,809

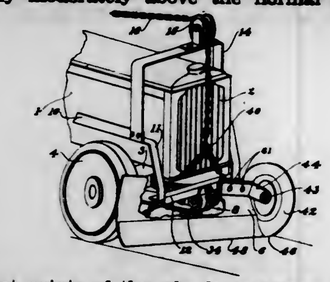
MOTOR SNOWPLOW

John G. Gerrish, Brookline, Mass.

Application April 3, 1931. Serial No. 527,493
9 Claims. (Cl. 37—42)

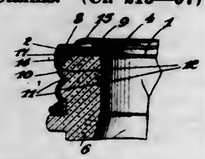
1. A tractor having in combination, a front axle and wheels, a forwardly extending substan-

tially central skid structure having a forward-upward-slanting skid surface terminating rearwardly moderately above the normal ground-



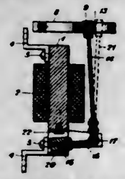
contact points of the wheels, a scraper forward of the skid structure, and a wheel at the leading end of the scraper.

1,942,810
TWO-PIECE SCREW CAP
John C. Gibbs, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a corporation of New York
Application January 15, 1930. Serial No. 420,857
8 Claims. (Cl. 215—97)



1. As an article of manufacture, a two-piece screw cap comprising a removable disc member having a depending skirt of substantially uniform depth, a screw member adapted to fit over said disc member to hold it on a container, said screw member having an annular corrugated zone at the upper part thereof, the flange of said disc member being struck radially outwardly at intervals to increase the diameter thereof and to fit against said corrugations to hold the disc member in place when said disc member is assembled with said screw member.

1,942,811
SINGLE STROKE GONG
Irving W. Green, Cranford, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application May 24, 1929. Serial No. 365,724
1 Claim. (Cl. 177—7)



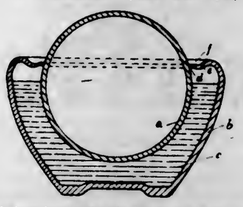
An electrically operated acoustical device including a core of substantially E-shaped form, a coil mounted upon the central arm of the E-shaped member, a gong of spiral formation carried on a corner of the closed end of the E-shaped core, an armature pivotally mounted at one extremity on the open end of the core, a flexible member extending adjacent the central leg of the E-shaped form, said flexible member being mounted at one extremity on the pivoted end of said armature and having a weighted hammer at its free end lying adjacent said gong, and supporting means for said armature including brackets secured to the outer legs of the E-shaped core and having a pin pivoted to said brackets which forms a common pivotal point for the armature and flexible member.

1,942,812
PRODUCTION OF ORGANIC PRODUCTS FROM 7.18-STEARIC GLYCOL
Fritz Guenther and Karl Saftien, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application April 12, 1932, Serial No. 604,863, and in Germany April 29, 1931
9 Claims. (Cl. 260—98)

1. The process for the production of organic products which comprises splitting off one molecular proportion of water from 7.18-stearic glycol by heating the latter to from about 100° C. to about 200° C. in the presence of a strong non-oxidizing acid selected from the group consisting of phosphoric acid, sulphuric acid, organic sulphonic acids and halogen acetic acids.

7. Unsaturated alcohol substances presumably corresponding to the formula $CH_3—(CH_2)_x—R—(CH_2)_y—CH_2OX$ in which R denotes $[—CH=CH—CH_2—]$, X denotes hydrogen, $—OSO_2Y$ or $—O—PO(OY)_2$, Y being hydrogen or an alkali metal radicle.

1,942,813
MOISTENING DEVICE
Herbert William Harrington, London, England
Application November 19, 1932, Serial No. 643,547, and in Great Britain October 22, 1931
3 Claims. (Cl. 91—51)

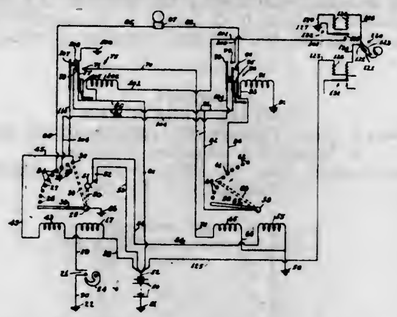


1. A moistening device consisting of a container for liquid, said container having a rim defining an orifice, said rim being inturned and projecting downwardly providing an annular air pocket remote from said orifice but communicating with said liquid, a spherical body in said container making contact with the inner peripheral edge of said inturned rim, said liquid and rim constituting the sole support for said body when the device is in use.

1,942,814
DELINQUENCY INDICATOR OF FLYBACK TYPE
Richard M. Hopkins, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey
Application June 21, 1930. Serial No. 462,827
18 Claims. (Cl. 161—20)

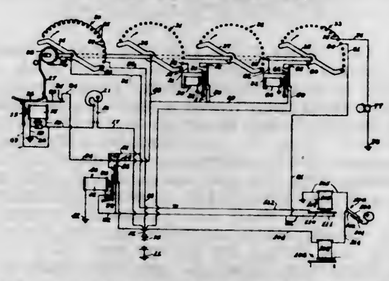
1. An apparatus comprising a primary member; means whereby said member is advanced to a predetermined position and restored; a secondary member; means to advance the secondary

member a small increment each time said primary member substantially reaches said position; a translating device; means for operating said device each time both members reach re-



spective predetermined points; means to automatically restore both members when said device is operated; and means for at will restoring both members.

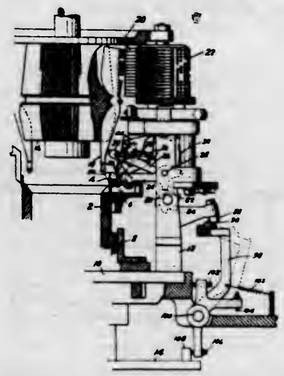
1,942,815
DELINQUENCY INDICATOR OF REVOLVING ARM TYPE
Richard M. Hopkins, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey
Application June 21, 1930. Serial No. 462,828
22 Claims. (Cl. 161—20)



1. A signal apparatus comprising a movable member; means whereby said member is continually cyclically advanced; a single device set in operation by said member intermediately of the cycle; reset means automatically set in operation after the signal device is operated to quickly advance the member to the end of the cycle; and means for at will operating the reset means.

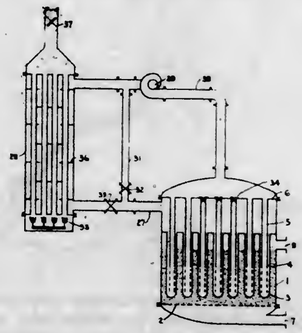
1,942,816
KNITTING MACHINE
Harold E. Houseman, Edge Moor, Del., assignor to Standard-Trump Bros. Machine Company, Wilmington, Del., a corporation of Delaware
Application April 11, 1931. Serial No. 529,519
17 Claims. (Cl. 66—140)

10. A knitting machine including a circle of independently movable needles and elements cooperating therewith to form stitches, said elements including yarn feeding fingers and clamping and cutting means located outside the needle circle, and means arranged to engage a yarn which is to be rendered active and locate it in position to be engaged by a needle, said last named means including an element for carrying the yarn across the needles and downward within the needle circle, and means for locating the yarn in position to be engaged by said ele-



ment, said means engaging the yarn between the clamp and the yarn feeding fingers.

1,942,817
CATALYTIC APPARATUS
Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware
Application January 14, 1930. Serial No. 420,656
3 Claims. (Cl. 23—288)

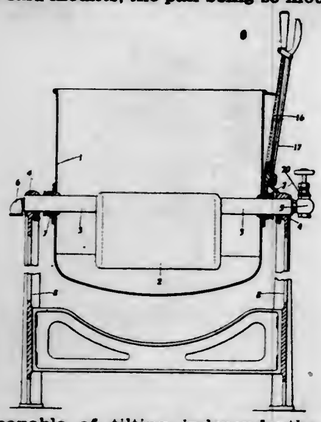


1. A method of regulating the temperature conditions within a stationary layer of catalyst mass which comprises cyclically circulating a temperature regulating medium first in indirect and then in direct heat exchange relation with the interior of the catalyst mass and then through an outside heat exchange system.

1,942,818
BOILING PAN, AUTOCLAVE, DIGESTER, AND THE LIKE
Francis Bernard Kern and Thomas Edward French, Surrey, England, assignors to The Aluminum Plant & Vessel Company Limited, London, England, a British Company
Application March 10, 1933, Serial No. 660,248, and in Great Britain March 23, 1932
9 Claims. (Cl. 159—34)

1. An open-top boiling pan, comprising a heater element located in the pan, mounts extending through the sides of the pan and on which the

heater element is carried, bearings outside the pan for said mounts, the pan being so mounted as



to be capable of tilting independently of the heater element.

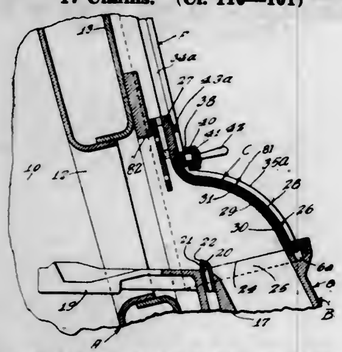
1,942,819

COMBINED STOKER AND FIREDOOR

Paul A. Ketchpel, Bergenfield, N. J., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware

Application October 6, 1931. Serial No. 567,215

17 Claims. (Cl. 110—101)



9. In a firebox having a wall provided with a firing opening therein for hand and stoker firing, a stoker conduit in communication with the lower portion of said firing opening, said stoker conduit at its delivery end including a rear wall and side walls extending beyond and above the upper edge of said rear wall and above the lower marginal edge of said firing opening, and a firedoor having an upper and a lower portion, the upper portion of said firedoor forming a closure for the upper portion of said firing opening and the lower portion of said firedoor forming a closure for the opening defined by the contiguous edges of said rear and side walls.

1,942,820

PROCESS OF MAKING ALKYL AMINO CARBINOLS

Frederick H. Krans, Buffalo, N. Y., assignor to National Aniline & Chemical Co. Inc., New York, N. Y., a corporation of New York

No Drawing. Application February 7, 1930

Serial No. 426,595

6 Claims. (Cl. 260—64)

1. A process for the production of tetra ethyl-4.4'-diamino diphenyl carbinol which comprises dissolving 650 parts of tetra ethyl-4.4'-diamino diphenyl methane in 750 parts of 90% formic acid, diluting the solution with 11,000 parts of water and 7,000 parts of ice, adding 502 parts of lead dioxide, maintaining the solution at a temperature of about 0° C. for 10 to 15 minutes and separating out the carbinol compound formed.

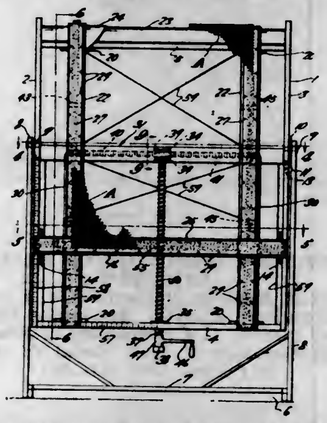
1,942,821

CURTAIN STRETCHER

Albert C. Kulp, Chicago, Ill., assignor of one-third to Leonard J. Higgins, Chicago, Ill.

Application June 10, 1932. Serial No. 616,453

5 Claims. (Cl. 45—24)



1. In a device of the kind described, a stand, a supporting frame pivotally supported in the said stand, an end stretching frame slidably mounted on the supporting frame, a pair of side stretching frames slidably mounted on the frame, racks extended from the side stretching frames, an operating shaft, a gear on the operating shaft meshing with the said racks, a nut secured to the end stretching frame, a worm journaled on the operating shaft and threaded through the said nut, a crank journaled on the operating shaft. and means for locking the crank in engagement with either the operating shaft or the worm.

1,942,822

AUTOMATIC FIRE-EXTINGUISHING SYSTEM

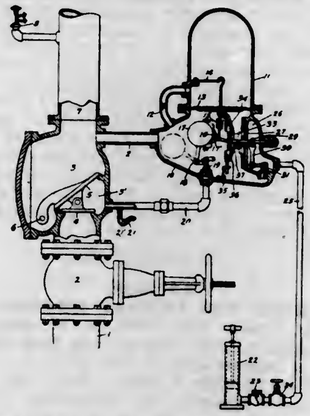
Ernest A. Lowe and John R. Hamilton, Cleveland Heights, Ohio, assignors to Automatic Sprinkler Company of America, Cleveland, Ohio, a corporation of Delaware

Application January 26, 1927. Serial No. 163,629

26 Claims. (Cl. 169—17)

2. In a fire extinguishing system containing air under pressure, the combination with a valve controlling the supply of the extinguishing medium to the system and responsive to a drop in pressure in the system for causing said valve to operate, means responsive to a rapid increase of air pressure due to increase of temperature at an abnormal rate in the area to be protected for bringing said valve into operation.

14. In a fire extinguishing system, the combination with air tubing containing air under pressure and extending from the fire zone or area to a point of control, a weighted actuating device normally detained or held out of action, a diaphragm subject on the one side to direct pressure of air from said tubing and on the other to an opposing or indirect pressure derived through a restricted bypass around the diaphragm and means connected with said diaphragm for releasing said weighted actuating device upon either increase or decrease of the air pressure in said tubing.



17. In a dry pipe extinguishing system, the combination with a supply valve, normally subject to fluid pressure in the system of a supplemental chamber wherein pressure of fluid tends to unseat the supply valve, means operated by the force of sudden expansion of heated air heated in the area to be protected and means controlled thereby for admitting fluid under pressure to said supplemental chamber to cause the supply valve to open.

1,942,823

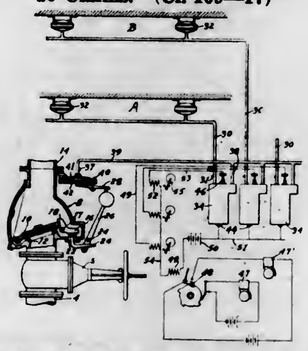
THERMALLY OPERATED DEVICE OPERATING BY EXPANSION OF AIR OR OTHER GAS WHEN HEATED

Ernest A. Lowe and John R. Hamilton, Cleveland Heights, Ohio, assignors to Automatic Sprinkler Company of America, Cleveland, Ohio, a corporation of Delaware

Application September 16, 1930

Serial No. 482,268

10 Claims. (Cl. 169—17)



1. In a fire controlling apparatus, a main pressure actuated controlling mechanism normally inactive, a plurality of pressure producing elements arranged respectively in different fire zones and each adapted to generate increase of pressure on the occurrence of fire, pressure conveying tubings extending respectively from said elements to said controlling mechanism and one-way valves associated with said pressure producing elements and tubing for preventing the increase of pressure generated in any fire zone and necessary for rendering the controlling mechanism active from passing or being dissipated in the tubing of other elements.

5. In a fire extinguishing and alarm apparatus for a plurality of fire zones, fluid control mechanism, a pressure responsive device for actuating said control mechanism, a series of chambers containing sealing liquid and communicating above the level of the sealing liquid with said pressure responsive device, heat responsive pressure producing elements located in the various fire zones and each including individual pressure conveying tubing extending from the fire zones to one of said chambers and communicating with the interior thereof beneath the normal liquid level thereof, alarm mechanism and means operated by the passage of pressure from said tubing into said chambers for actuating said alarm.

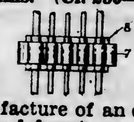
1,942,824

ELECTRIC DISCHARGE DEVICE

Albert Edward McLeod, Kenton, England, assignor to The M-O Valve Company Limited, London, England

Application April 14, 1932, Serial No. 605,140, and in Great Britain May 29, 1931

6 Claims. (Cl. 250—27.5)



1. In the manufacture of an electric discharge device a method of forming an insulating support for rigidly holding wires correctly spaced apart which comprises arranging two strips of thin flexible insulating material and the spaced wires within an elongated metal sleeve, the wires being arranged between the two strips, and applying pressure to the two opposite sides of the metal sleeve so as to deform the latter and press the strips against the wires whereby the wires are held in proper spaced relation.

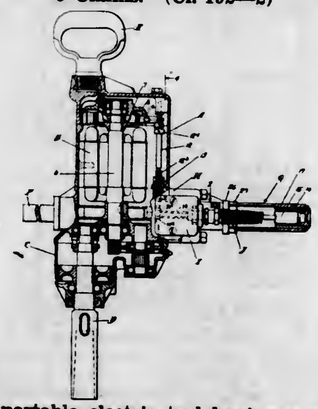
1,942,825

CONTROL APPARATUS FOR POWER MACHINES

Leon Fulgence Meunier, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Application September 3, 1930. Serial No. 479,521

9 Claims. (Cl. 192—2)



1. A portable electric tool having a motor, a motor brake, a duplex switch for forward and

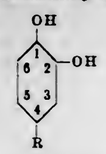
reverse operation of said motor, a handle on said tool, a control member on said handle, and means actuated by said member for releasing said brake and for operating said switch.

1,942,826
METHOD FOR SEPARATION OF ORTHO- AND PARA-HALOBENZOIC ACIDS
Lindley E. Mills, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 6, 1930 Serial No. 433,823
11 Claims. (Cl. 260—106)

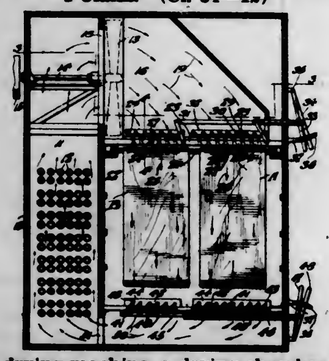
1. The method of separating ortho- and para-halobenzoic acids from an aqueous mixture of compounds of said acids selected from the group consisting of the free acids and water-soluble salts thereof which comprises adjusting the pH value of such mixture to a point at which para-halobenzoic acid is present in free and undissolved form and ortho-halobenzoic acid is dissolved as a water-soluble salt thereof.

1,942,827
TERTIARY ALKYL SUBSTITUTED ORTHO-DIHYDROXY BENZENES
Lindley E. Mills and Bruce L. Fayerweather, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 27, 1933 Serial No. 663,102
3 Claims. (Cl. 260—154)

1. 1:2 - dihydroxy - 4 - tertiary - alkyl benzene having the following structural formula; wherein R represents the tertiary-alkyl group:



1,942,828
DRYING MACHINE
Bertrand A. Parkes, Philadelphia, Pa.
Application January 28, 1932. Serial No. 589,324
1 Claim. (Cl. 34—12)



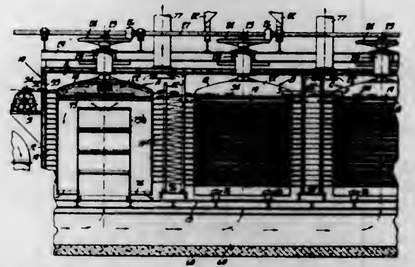
In a drying machine, a drying chamber adapted to receive a plurality of pieces of work to be dried, an air receiving chamber above said drying chamber, an air heating chamber communicating with said air receiving chamber, there being ports leading from said upper chamber into said drying chamber, fixed baffles coacting with said ports for directing the flow of air therethrough, a plurality of sets of movable, adjustable shutters for said ports corresponding to the plurality of pieces of work in said drying chamber, means for actuating said sets of shutters independently, a bottom air receiving chamber communicating with said air heating chamber, there being ports leading from said drying chamber into said bottom chamber, fixed baffles coacting with said ports for directing the flow of air therethrough, a plurality of sets of movable, adjustable shutters for said ports corresponding to the plurality of pieces of work in said drying chamber and said first mentioned plurality of sets of shutters, and means for actuating said last mentioned sets of shutters independently of each other and of the first mentioned plurality of sets of shutters.

1,942,829
HOSE FOR VEHICLE BRAKES
Albert D. Pentz, New York, N. Y., assignor to Pentz Motor Brake Corporation, New Brighton, N. Y., a corporation of New York
Application October 6, 1931. Serial No. 567,212
9 Claims. (Cl. 285—84)



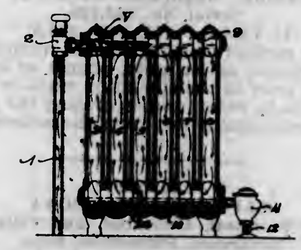
1. An article of manufacture comprising in combination, a length of reinforced hose, a metal fitting surrounding the end of said hose and a rubber sealing and connecting ring vulcanized to the end of said hose and to said fitting, substantially as set forth.

1,942,830
FISH COOKING APPARATUS
David D. Peebles, Eureka, Paul D. V. Manning, Berkeley Woods, and Alfred H. Potbury, Berkeley, Calif.
Application September 25, 1931 Serial No. 565,010
11 Claims. (Cl. 99—2)



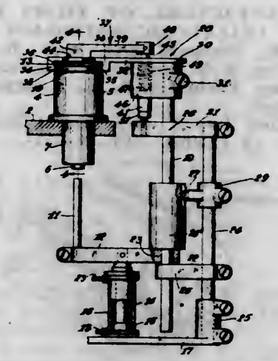
1. In a cooker of the character described, a plurality of rotatable units carrying shelving for supporting articles to be cooked, and means serving to transfer said articles from the shelving of one unit to the shelving on the other, said means comprising a plurality of structures, each structure being formed to provide a slide extending between two shelves and being supported at its ends by said two shelves.

1,942,831
HEATING SYSTEM
Sidney J. Perry, Spokane, Wash.
Application March 8, 1932. Serial No. 597,451
3 Claims. (Cl. 237—74)



1. The combination with a heat radiator having an upper header, a lower header, a plurality of columns connecting said headers and an automatically controlled outlet remote from the upper header, of an injector located in an inlet portion of the upper header, a steam supply for the injector, a steam tube extending from the injector into the upper header a sufficient distance to convey steam through the front portion of the upper header and permit downward flow of steam from the rear portion of said header, and means in the lower header for directing steam upwardly through the front portion of the radiator to create a continuous circulation of steam throughout the radiator.

1,942,832
MOLD TRANSFERRING MECHANISM
Louis P. Piazzoli, Jr., Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a corporation of Delaware
Application March 20, 1930. Serial No. 437,363
22 Claims. (Cl. 49—14)



1. In a mold transferring device of the class described, the combination of an arm having stationary portions at the end thereof with longitudinal grooves therein forming fingers for engaging a ring mold and means for locking said ring mold on said arm.

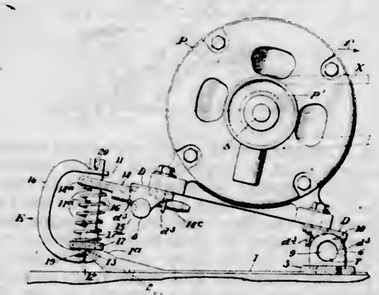
1,942,833
PRODUCTION OF HIGH-QUALITY WAX-LIKE SUBSTANCES
Wilhelm Pungs, Ludwigshafen - on - the - Rhine, and Michael Jahrstorfer, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application June 23, 1931, Serial No. 546,426, and in Germany July 3, 1930
10 Claims. (Cl. 134—15)

1. As new articles of manufacture synthetic wax preparations comprising an ester of montanol with at least one non-aromatic mono-carboxylic acid containing up to 25 carbon atoms.

8. As new articles of manufacture synthetic wax preparations comprising an ester of montanol with palmitic acid.

9. As new articles of manufacture synthetic wax preparations comprising an ester of montanol with linoleic acid.

1,942,834
QUICK DETACHABLE MOUNT FOR MOTORS
William Railley, Roselle, N. J.
Application July 25, 1933. Serial No. 682,112
6 Claims. (Cl. 308—11)

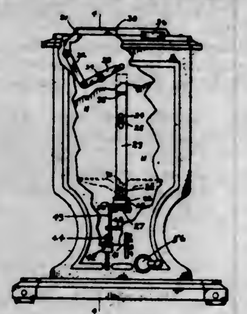


1. A mount for a motor comprising a substantially T-shaped supporting element consisting of a base bar adapted to be secured to a supporting structure and a cross-head adjustably mounted on the base bar and adjacent one end thereof; bearings provided by said cross-head; an adapter plate adapted to be secured to one side of a motor and provided with oppositely projecting trunnions adapted to be fitted to said bearings thereby to pivotally mount said adapter plate in said bearings, and latch mechanism adapted to be carried by the opposite side of a motor and adapted to engage the opposite end of said base bar to maintain said adapter plate and the motor to which it is secured in various positions of angular adjustment in said bearings.

1,942,835
ELECTRICAL APPLIANCE
Edwin A. Ratenber, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 8, 1930. Serial No. 466,386
12 Claims. (Cl. 53—5)

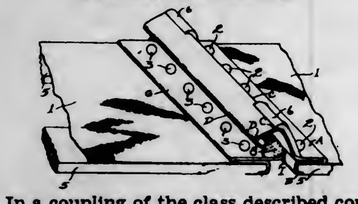
1. In combination, a toaster having an open-ended chamber, a movable closure at each end

thereof, one of said closures positioned for moving the other and mechanism for freeing the



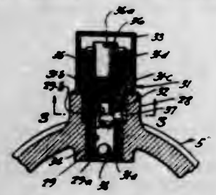
chamber of the toasted bread by disturbing only one closure.

1,942,836
COUPLING FOR BELTS OR THE LIKE
Eugene Sawyer, Benld, Ill.
Application December 5, 1932. Serial No. 645,809
4 Claims. (Cl. 24—33)



1. In a coupling of the class described comprising a member of an appropriate length hooked in cross section, means to attach one side to the end of a belt, the other side upwardly and outwardly extending, another member of an appropriate length and hooked in cross section, means to attach the same to the other end of the belt, the hook portion upwardly and rearwardly positioned to interlock with the hook portion of the other member, means to avoid longitudinal movement in opposite directions with respect to each other.

1,942,837
FLUSH VALVE
William F. Schulthciss, Huntington Park, Calif.
Application March 17, 1931. Serial No. 523,264
3 Claims. (Cl. 137—93)

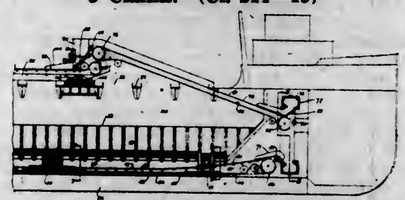


1. In a flush valve having an inlet chamber and an expansible operating chamber with a by-pass connecting said inlet and expansion chambers: a regulating and check unit in said by-pass having a cage with an inlet port and an outlet port, a valve in said cage checking retrograde flow of liquid from said expansible chamber through said inlet port to said inlet chamber and an adjustable valve bumper member to selectively vary the outlet port opening from said cage to said expansible chamber.

1,942,838
METHOD OF RECOVERING AMINES AND PHENOLS FROM THEIR AQUEOUS SOLUTIONS
Waldo L. Semon, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application August 22, 1928
Serial No. 301,439
17 Claims. (Cl. 260—130.5)

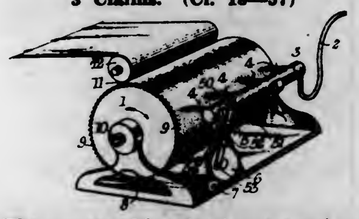
7. The method which comprises mixing a primary aromatic amine and a phenol, at least one of which prior to the admixture exists in a state of solution in water, and separating the precipitated phenol-amine salt from the aqueous solution.

1,942,839
SELF-UNLOADING BOAT
Robert E. Sheal, Cleveland, and Clifton N. Windecker, Painesville, Ohio
Application September 30, 1929
Serial No. 396,144
5 Claims. (Cl. 214—15)



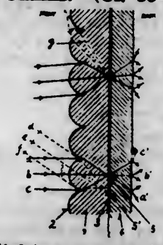
2. In a self-unloading ship the combination of a cargo hold having a hopper bottom with a tunnel extending longitudinally beneath the same, said hopper bottom being provided with a series of openings for discharging material from said hold, means for delivering the material exteriorly of the ship including a conveyor in said tunnel, a feeder adapted to travel along within said tunnel for cooperation with the discharge openings, and positively driven means associated with said feeder for transferring material from said openings to said conveyor.

1,942,840
MANUFACTURE OF FILMS FROM CELLULOSIC MATERIALS
Samuel E. Sheppard and Leon W. Eberlin, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application July 2, 1928. Serial No. 289,803
3 Claims. (Cl. 18—57)



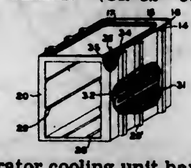
1. The process of forming transparent continuous cellulosic films from thin sheets of light obstructive cellulosic material formed by spraying cellulosic particles on a smooth surface, which comprises simultaneously rendering the film transparent and adhesive with a cement containing a volatile solvent of said cellulosic material and subsequently laminating a plurality of said sheets.

1,942,841
DAYLIGHT SCREEN
Takeo Shimizu, Hongo-Ku, Tokyo, Japan
Application December 28, 1931, Serial No. 583,495, and in Japan January 19, 1931
4 Claims. (Cl. 88—24)



1. In a daylight screen, a transparent sheet, the front surface of said transparent sheet being composed of an aggregate of minute condensing lenses, and the back surface of the sheet being so blackened that only the spots, where the light from the projector converges, are transparent, and a transparent film with minutely uneven surfaces or a semi-transparent film attached to the back surface of the sheet so that the neighbouring light spots appear melted into a continuously illuminated surface.

1,942,842
COOLING UNIT FOR MECHANICAL REFRIGERATION
George J. Smith, Los Angeles, Calif.
Application June 19, 1930. Serial No. 462,330
5 Claims. (Cl. 62—95)



2. A refrigerator cooling unit having a box-like structure with a pair of walls having a space with cooling coils therein, the said space surrounding the coils having a filling of silicate of soda in liquid form.

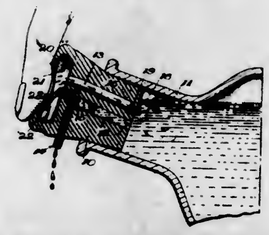
1,942,843
CELLULOSE ORGANIC ESTER COMPOSITION CONTAINING DIBUTYL MALATE
Henry B. Smith, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
No Drawing. Application May 16, 1932
Serial No. 611,759
7 Claims. (Cl. 106—40)

1. A composition of matter comprising a cellulose organic ester and di-butyl malate as a plasticizer for the cellulose organic ester.

1,942,844
CELLULOSE ORGANIC ESTER COMPOSITION OF MATTER CONTAINING AN ESTER OF DIBROMO SUCCINIC ACID
Henry B. Smith, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
No Drawing. Application May 16, 1932
Serial No. 611,760
9 Claims. (Cl. 106—40)

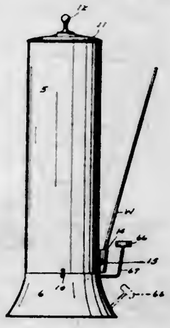
1. A composition of matter comprising an organic ester of cellulose and a di-alkyl ester of aa'-dibromo succinic acid as a plasticizer for the organic ester of cellulose.

1,942,845
BOTTLE STOPPER
Ernest F. Stephens, Washington, D. C.
Application March 13, 1933. Serial No. 660,591
15 Claims. (Cl. 215—58)



1. A bottle stopper provided with an outlet for delivering controlled quantities of liquid, a vent for the ingress of air, and deformable means for respectively controlling said outlet and said vent and simultaneously deformable by compression of the stopper body to open said outlet and said vent.

1,942,846
VERTICALLY SLOTTED STRAW DISPENSER
Clyde C. Suiter, Dallas, Tex., assignor to Tray Service Company, Dallas, Tex., a corporation of Texas
Application May 7, 1930. Serial No. 450,550
10 Claims. (Cl. 312—75)

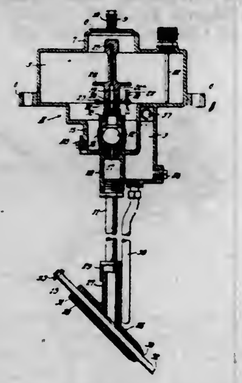


10. A dispenser for slender articles, said dispenser including a container for receiving a body of the articles in vertical non-segregated, positions, said container having a vertical opening in a wall of the container through which the articles may be ejected, means normally urging said body of articles laterally toward said opening, means associated with said opening and movable into said body of articles and then outwardly toward said opening for selecting an article from said body and ejecting it through said opening, and means for actuating said last-named means.

1,942,847
LUBRICATING DEVICE
Olof Swanson, Chicago, Ill.
Application October 24, 1931. Serial No. 570,877
6 Claims. (Cl. 184—3)

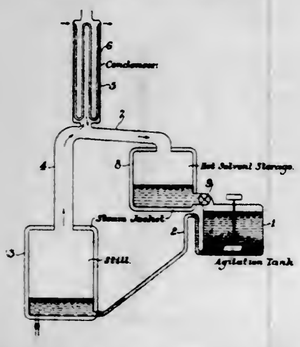
6. In a lubricating device, the combination with an oil reservoir; of a feed pipe leading from the reservoir; a restricted passage from the reservoir to the feed pipe; and a member loosely retained in the passage and movable by oscillations

of the oil in the reservoir to frictionally maintain the passage open, said member having a



portion normally immersed in the oil of the reservoir.

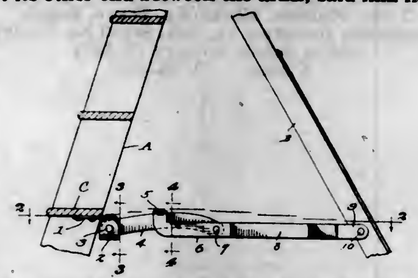
1,942,848
METHOD FOR LEACHING FILM, ETC.
Ernest R. Taylor and Charles L. Allen, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application May 24, 1930. Serial No. 455,446
2 Claims. (Cl. 252—1)



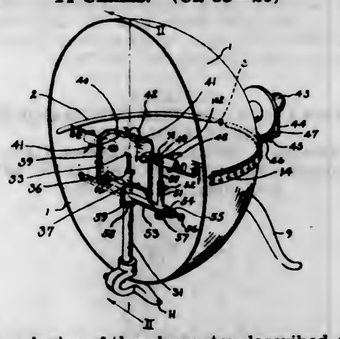
1. The method of leaching color from dyed cellulose derivative scrap which comprises agitating the scrap in a leaching bath, intermittently and rapidly draining the bath from the scrap, distilling the bath, condensing and returning the distillate to intermediate storage and immediately following the draining of the bath rapidly adding to the film a fresh batch of distilled leach and continuing that cycle of treatment with consequent intermittent draining and submerging of the scrap.

1,942,849
STEPLADDER BRACE
Ned L. Thrasher, Perrysburg, N. Y.
Application August 29, 1933. Serial No. 687,346
2 Claims. (Cl. 228—33)

1. A foldable brace including a sheet metal attaching plate having an integral depending yoke opening upwardly, an elongated strip of sheet metal providing an intermediate inverted yoke and arms extending from the yoke, and a link pivoted at one end in the first-named yoke and at its other end between the arms, said link having a convex upper edge adapted to be straddled between its ends by the inverted yoke.

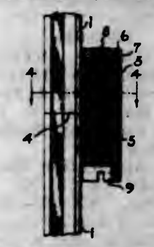


1,942,850
EYE-TESTING DEVICE
Edgar D. Tillyer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 25, 1929. Serial No. 402,413
14 Claims. (Cl. 88—20)



1. In a device of the character described, means for locating the position of the eye under test, a hemispherical field member having its center approximately at the position of the eye under test and being pivoted at its pole in alignment with straight ahead vision of the eye under test and having a slot extending therethrough from adjacent the said pole radially to a point adjacent its edge in which a fixation object may be moved along in the rear of the field member so that it may be seen by the eye under test in the front of the field member.

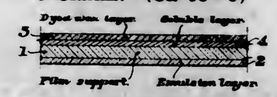
1,942,851
OPHTHALMIC MOUNTING
Joel C. Wells, Southbridge, Mass.
Application April 27, 1927, Serial No. 186,897
Renewed June 29, 1933
6 Claims. (Cl. 88—47)



1. In a device of the character described, a divided lens rim, a relatively long and relatively

thin tube having a longitudinal side secured to the rim and divided on the line of division thereof, a second tube within the first and having a shoulder extending over one end of the first tube, said second tube extending substantially the full length of the first tube, the internal portion of the second tube being threaded and screw means extending into the threaded portion of the second tube and having a head portion extending over the opposite end of the first tube from that of the shoulder of the second tube, said screw extending entirely through the second tube.

1,942,852
NONHALATION BACKING FOR PHOTOGRAPHIC FILM
Albert A. Young, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application February 16, 1931. Serial No. 516,046
3 Claims. (Cl. 95—9)

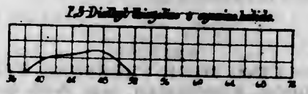


1. A photographic film comprising a support, on one face of said support a sensitive emulsion layer, on the opposite face of said support a soluble layer containing a dye, and over the soluble layer another layer containing a wax as the primary constituent and a dye.

1,942,853
RUBBER MASTER BATCH AND METHOD OF MAKING THE SAME
William F. Zimmerli, Portage Township, Summit County, and Waldo L. Semon, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application August 22, 1928
Serial No. 301,420
10 Claims. (Cl. 106—23)

1. The method of preparing rubber compositions which comprises incorporating from ½ to 3 parts of a softener into 1 part of rubber, applying the softener to the surface of the substantially unmasticated crude rubber, and permitting the absorption thereof by the rubber.

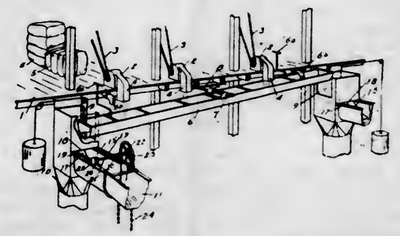
1,942,854
PHOTOGRAPHIC EMULSION
Leslie G. S. Brooker, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application June 11, 1930. Serial No. 460,548
23 Claims. (Cl. 95—7)



1. A photographic gelatino-silver-halide emulsion containing a cyanine dye which contains a thiazoline nucleus.

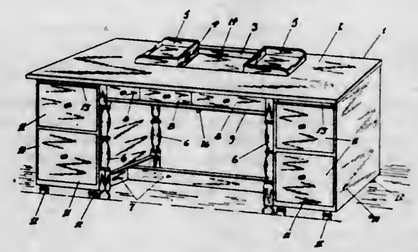
1,942,855
METHOD OF AND APPARATUS FOR TREATING AND HANDLING MATERIAL
John L. Cooney, Erie, Pa.
Application December 18, 1931
Serial No. 581,921
17 Claims. (Cl. 92—1)

1. The method of treating paper making rags which consists in wetting the rags remote from and preliminary to their delivery to a beater, and conveying the rags by means of a flow of water in which the water wetting the rags is utilized to a point of delivery at the beater.



11. In a material treating apparatus, the combination of a vertically extending conduit having a side opening and a lateral conduit leading from the vertical conduit; and a gate telescopically mounted in the lateral conduit and movable into and out of the opening of the vertical conduit directing material from the vertical conduit into, or past the lateral conduit.

1,942,856
ARTICLE OF FURNITURE
Horace W. Davis, Binghamton, N. Y.
Application February 24, 1933. Serial No. 658,349
6 Claims. (Cl. 45—90)



1. A desk comprising supporting legs and a top, said top having an opening therein, and a pair of hinged desk trays adapted to be selectively folded into and out of said opening, the bottoms of said trays, when the same are folded into said opening, forming a closure therefor.

1,942,857
MEASURING DEVICE
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application January 27, 1930. Serial No. 423,679
4 Claims. (Cl. 73—52)

1. In a measuring instrument comprising a capillary tube communicating with a reservoir and provided with mercury in the reservoir and a portion of the tube, means for lubricating the mercury meniscus and maintaining its normal contour at all points of travel in the tube and for preventing distillation of the mercury comprising a column of liquid superimposed on the mercury and adapted to travel through the tube simultaneously therewith, said liquid comprising a compound selected from the group consisting of butyl, benzyl, and amyl esters of the unsubstituted benzene dicarboxylic acids, and also containing an activating agent in solution which neutralizes the retarding effect of im-

purities in the mercury on the free travel of the mercury column in the tube, said agent being



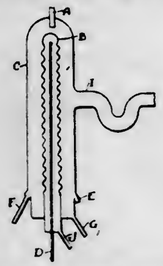
selected from the group consisting of mercury di-para-tolyl and phenyl hydrazine.

1,942,858

DISTILLATION APPARATUS

Kenneth C. D. Hickman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

Application December 23, 1930
Serial No. 504,306
4 Claims. (Cl. 196—77)



2. A distillation apparatus which comprises a hollow dome having a smooth, spirally corrugated, substantially vertically disposed surface devoid of pockets in which liquid can accumulate, and over which the liquid being distilled can freely cascade, a source of heat within the dome, an enclosing chamber adapted to be evacuated surrounding said dome, a regulated inlet for dropping liquid on to the dome and outlets for withdrawing the products of the distillation.

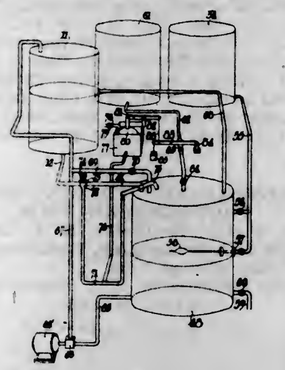
1,942,859

LIQUID CONCENTRATION CONTROL APPARATUS

Kenneth C. D. Hickman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

Original application June 4, 1931, Serial No. 542,053, and in Canada April 13, 1932. Divided and this application May 21, 1932. Serial No. 612,733
7 Claims. (Cl. 137—165)

1. In a control apparatus for regulating the concentration of a solution, the combination with a circulatory system adapted to contain said solution and a valve means for controlling the admission of a concentrated solution into said circulatory system, of a liquid balance means adapted to maintain a dynamic balance between a moving column of a standard solution and a moving column of solution of desired concentration and a float means adapted to be operated to open said valve means upon a decrease in concentration of the solution in said circulatory system.



1,942,860

DOOR HOLDING DEVICE

Robert H. Hummert, Dayton, Ohio, assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio, a corporation of Ohio

Application February 15, 1932. Serial No. 592,881
1 Claim. (Cl. 292—275)

In a device for holding a hinged door open comprising a member attachable to the door frame and containing an elongated slot, a link, one end of which is pivotally secured to the door, a projection on the other end of the link free to travel through said slot, a conical head on said projection adapted to bridge said slot, a gripping member projecting transversely across the slot between the ends thereof, and reverse curved spring side projections on said gripping member to offer a minimum resistance to the passing of the conical head of the link projection in either direction, while retaining sufficient spring action to hold it in an intermediate position when desired.

1,942,861

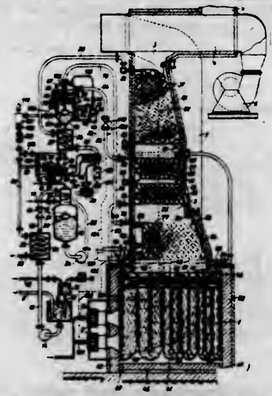
PRODUCING HIGH-PRESSURE STEAM

Alfred Huster, Kronshagen, near Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Prussia, Germany

Application October 24, 1931, Serial No. 570,937, and in Germany November 7, 1930
27 Claims. (Cl. 122—1)

1. The method of operating a series steam boiler plant with feed water containing harmful constituents, which comprises continuously feeding to the boiler a quantity of feed water substantially equal to that required to supply the instantaneous steam demand, plus a predetermined and substantial excess for holding said harmful constituents; vaporizing a said first

mentioned quantity of water; separating from the steam so produced the unvaporized excess



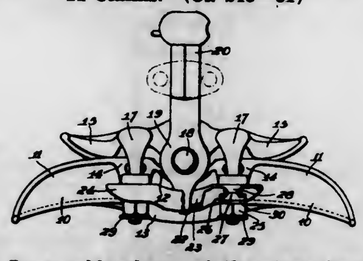
water; and running to waste all of said excess water with said harmful constituents therein.

1,942,862

SLIP CLAMP

Ralph L. Jenner, East Orange, N. J., assignor to Lapp Insulator Company, Inc., a corporation of New York

Application July 29, 1930. Serial No. 471,558
11 Claims. (Cl. 248—31)



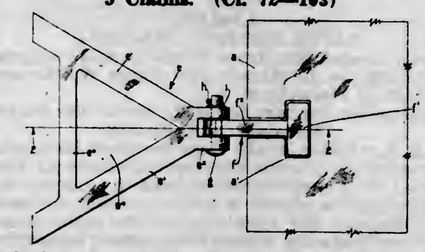
10. In a cable clamp of the class described, means for maintaining a cable normally clamped therewithin, and means for automatically and permanently releasing the clamping pressure on said cable under abnormal conditions, said last means including a slotted trip washer interposed in the normal clamping means and adapted to permanently release the normal clamping pressure under abnormal conditions.

1,942,863

MEANS FOR FIXING FURNACE LININGS

James Johnstone, Portland, Oreg.

Application January 19, 1931. Serial No. 509,614
5 Claims. (Cl. 72—103)



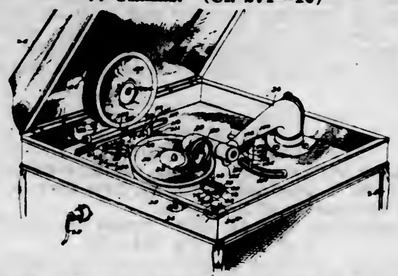
2. A connector element of the character described comprising two portions each terminating in an enlarged protuberance, one of said portions being relatively flat and provided with a lateral central pivotal connection, said pivotal connection being offset to a predetermined degree, the other portion of said connector element also being provided with a pivotal connection engageable with the first-mentioned connection, said connections including two vertically slotted eyes having tying elements loosely mounted and held against lateral movement therein.

1,942,864

SOUND REPRODUCING MACHINE

William D. La Rue, Philadelphia, Pa., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application January 15, 1927. Serial No. 161,440
77 Claims. (Cl. 274—10)



1. In a sound reproducing machine embodying a turntable, a magazine for supporting a plurality of disk record tablets in a position to be transferred into cooperative relation with sound reproducing instrumentalities comprising an upright member inclined toward said turntable, a downwardly inclined record holding pin operatively secured to said member, a toe formed on said pin, said pin being adapted to receive and support a plurality of record tablets in an inclined position with the outer face of the record tablet closest the turntable in engagement with said toe, and means for releasing and transferring a tablet from said pin downwardly onto said turntable.

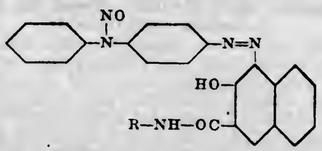
1,942,865

AZODYESTUFF CONTAINING A NITROSOGROUP

Leopold Laska, Arthur Zitscher, Wilhelm Christ, and Adolf Petsold, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 12, 1928, Serial No. 318,992, and in Germany December 13, 1927
22 Claims. (Cl. 260—95)

1. The azodyestuffs containing a nitrosogroup and corresponding probably to the general formula:



in which formula the naphthalene nucleus may contain a halogen and the two benzene nuclei halogen, alkyl-, oxalkyl- or oxaryl-groups, and R stands for a radical of the benzene or naphtha-

lene series, which dyestuffs are when dry red-like claret to garnet colored powders, soluble in concentrated sulfuric acid with a reddish-violet to violet color, forming valuable color lakes when mixed with the usual substrata and yielding claret to garnet-like reddish to violet dyeings of a good fastness to chlorine and washing when produced on the fiber.

1,942,866

MOISTUREPROOF IGNITING COMPOSITION, ESPECIALLY FOR MATCHES, AND MATCH PREPARED THEREWITH

Sven Harald Ledin, Stockholm, Sweden

No Drawing. Application April 9, 1930, Serial No. 443,902, and in Sweden July 20, 1929

3 Claims. (Cl. 52—25)

3. A match comprising a wooden splint provided with a tip of igniting composition composed of ignitable material and a binder therefor, characterized in that the binder consists of water-insoluble combustion-supporting substances including nitro-cellulose and a natural resin.

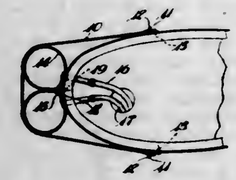
1,942,867

DEICER FOR AEROPLANES

Charles W. Leguillon, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application May 17, 1932. Serial No. 611,785

3 Claims. (Cl. 244—31)



2. In combination with an aerofoil, a stretchable sheet of material extending about the leading edge of the aerofoil, and secured thereto at positions rearward of the leading edge, a flexible bag mounted between the aerofoil and the said stretchable sheet, and means for modifying the pressure of fluid within the bag for changing its shape, the sheet having unattached zones and the construction and association of the sheet and the bag being such that the sheet is stretched to a greater extent than the wall of the bag when the bag is changed from a flattened to a more rounded form.

1,942,868

METHOD OF AND APPARATUS FOR DRYING COTTON

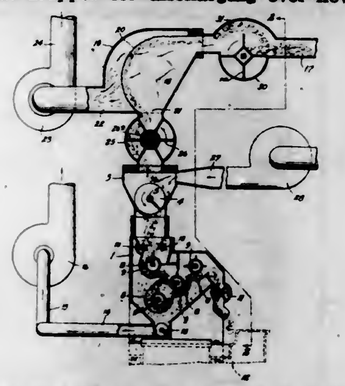
John E. Mitchell, Dallas, Tex.

Application April 16, 1932. Serial No. 605,561

3 Claims. (Cl. 19—74)

1. The method of treating cotton which consists in withdrawing the cotton from a source of supply and distributing the same to a plurality of cotton treating machines, and while distributing the cotton drying it by subjecting the cotton being distributed to the action of heated air.

3. Combined cotton distributing and drying mechanism comprising a suction conduit for withdrawing cotton from a source of supply, a separator associated therewith, an enclosed cotton distributor, an air seal dropper for delivering cotton from the separator to said distributor, an air seal dropper for discharging over-flow cotton from said distributor, and means for supplying a current of heated air to said distributor.



1,942,869

FILM MAGAZINE CONSTRUCTION

Donald McMaster, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

Application July 24, 1931. Serial No. 552,914

6 Claims. (Cl. 242—71)



2. In a film magazine, the combination, with a film winding hub, of means for directing film smoothly thereon comprising a pair of film guiding members one fixedly mounted and the other fixedly attached at one end only, said last mentioned member comprising springy material normally lying toward the first mentioned guide so as to be spaced therefrom a distance less than the normal width of a film whereby said guide may contact with the outermost coil of film wound on the film winding hub.

1,942,870

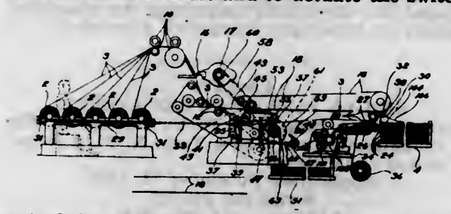
PAPER-SORTING MACHINE

Louis Landaff Matthews, Westerly, R. I., assignor to Charles B. Maxson and Julian W. Maxson, both of Westerly, R. I.

Application January 14, 1930. Serial No. 420,752

13 Claims. (Cl. 92—93)

1. A machine of the class described having, in combination, means for feeding sheets of material in a predetermined path, a counter for counting the sheets, a switch, means normally maintaining the switch out of the path, means for rendering the maintaining means ineffective, a cam thereupon normally operative to maintain the switch in the path, means for operating the cam in synchronism with the feeding of the sheets to permit the switch-actuating means to actuate the switch into the path just prior to the arrival of a sheet and to actuate the switch



out of the path prior to the arrival of the next-following sheet, means for actuating the counter, and means for rendering the counter-actuating means ineffective during the period when the switch is in the path.

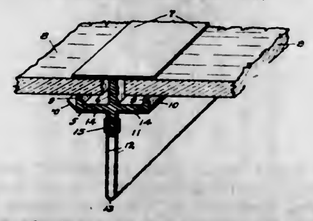
1,942,871

GLAZING BAR

John A. McDonald, Seattle, Wash., assignor to Northwest Lead Co., Seattle, Wash., a corporation of Washington

Application March 5, 1932. Serial No. 596,990

2 Claims. (Cl. 108—16)



1. In a glazing bar of the class described, a structural member comprising two side plates of relatively thin strong metal spaced a short distance apart and integrally connected with each other at their lower edges by a portion which extends directly across from one side plate to the other, integral angle flanges extending at right angles from the upper edges of said side plates, a flat bar of ductile metal resting securely on said angle flanges and supported thereby throughout its entire width, a longitudinal integral flange extending downwardly from said ductile bar between said side plates, and rivets securing said side plates and said flange together.

1,942,872

DEVELOPING GELATIN RELIEFS AND MAKING METAL CASTS THEREFROM

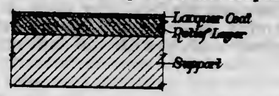
Alexander Murray, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

Application May 16, 1932. Serial No. 611,647

5 Claims. (Cl. 95—5)

1. The process of simultaneously developing a gelatin relief by heat and making a metal cast therefrom which comprises exposing to a light image a suitable heat developable light-sensitive, gelatin layer; coating said layer with a very thin layer of a plastic lacquer; flowing over the exposed layer a melted easily fusible alloy, whereby the heat of the metal causes the relief to develop; allowing the metal to solidify while still in contact with the relief; and then separating the relief and the metal cast so obtained.

4. A light sensitive element adapted to be developed into a relief by heat alone and to have a metal cast made therefrom, comprising a support, a sensitive layer capable of having relief images formed therein by heat development and



comprising gelatin, an organic acid, and a ferric salt; and over said sensitive layer a thin coating of a plastic cellulosic lacquer.

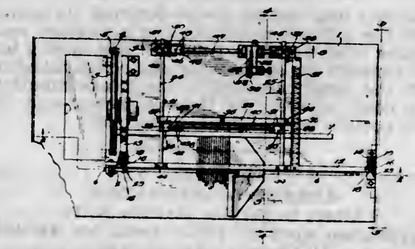
1,942,873

WORK POSITIONING MEANS

Anton H. Narrow, Memphis, Tenn.

Application September 18, 1929 Serial No. 393,420

4 Claims. (Cl. 28—68)



1. Work positioning means including parallel racks; a block carried by and movable on each rack; means connecting the blocks adjustably for relative movement thereof; a toothed member carried by and movable in each block; a spring carried by each block and pressing the toothed members into engagement with the racks to fix the position of the blocks on the racks; a plunger carried by each block and connected with the toothed member to move the same away from the rack; a work positioning member carried by the blocks transversely of the racks; a bar hinged to both blocks and engageable with the plungers to simultaneously release the blocks against the force of the springs to adjust the work positioning member; and a handle on the bar for manipulation thereof.

1,942,874

MOLDED ARTICLE

Clarence A. Nash, North Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 18, 1931, Serial No. 523,645, and in Canada December 2, 1929

7 Claims. (Cl. 106—22)

1. Fluid meter part molded from a composition comprising a phenolic resinoid and a filler of finely divided mica and asbestos fiber, said part having a low volume change in the presence of the fluid and under changes of temperature.

1,942,875

CARBURETING MEANS

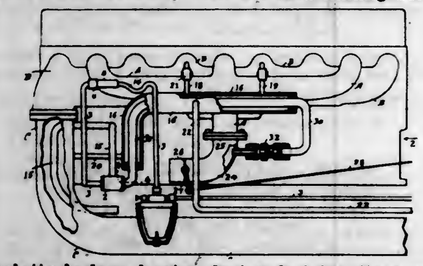
Carl W. Painter, Anderson, Ind.

Application February 3, 1932. Serial No. 590,545

2 Claims. (Cl. 261—13)

1. In an internal combustion engine having intake and exhaust manifolds and an exhaust pipe, and a supply conduit for said intake manifold, the said supply conduit having a throttle, a mixing box, a liquid-fuel pipe communicating with said mixing box, an atomizer in said liquid-fuel pipe

at a point distant from the mixing box, an air inlet for said liquid-fuel pipe adjacent to said atomizer and between the atomizer and the said mixing box, an air feed pipe open to the outside air, extended into and out of the exhaust pipe, and communicating with the said mixing box, a



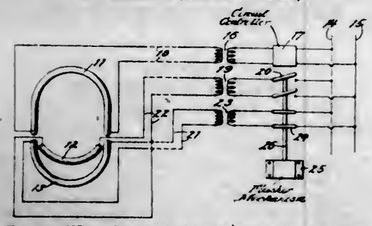
relatively long heater device deriving its energy from the exhaust manifold, and a mixture conducting pipe extending from the said mixing box and through the said heater and communicating with the supply conduit of the intake manifold at a point between the throttle thereof and the body portion of said intake manifold.

1,942,876
SPRAYING APPARATUS
Albert G. Perkins, Buffalo, N. Y.
Application April 26, 1930. Serial No. 447,497
11 Claims. (Cl. 91—44)



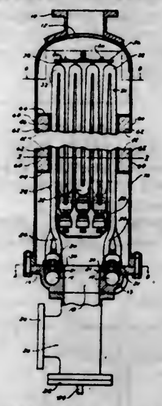
1. An apparatus of the character described, comprising a revolving nozzle having a plurality of discharge apertures disposed in different planes about the axis of revolution of said nozzle, and means for delivering separate charges of different materials to the nozzle-apertures, whereby the materials are delivered centrifugally and applied independently and in predetermined sequence to the receiving surface.

1,942,877
LUMINOUS DISPLAY DEVICE
Willis O. Prouty, Hermosa Beach, Calif., assignor, by mesne assignments, to Proutyline Products Co., Manhattan Beach, Calif., a corporation of California
Application August 19, 1929. Serial No. 387,058
2 Claims. (Cl. 177—346)



1. In an illuminated display device, a plurality of current consuming character elements, forming strokes of two characters having the same significance, but of different dimensions, a part of the elements being common to both characters, means for energizing the common elements, and means for alternately energizing the other elements to form said characters alternately.

1,942,878
SINGLE PASS HEAT EXCHANGER
Carl S. Reed, New York, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application November 23, 1932
Serial No. 643,957
10 Claims. (Cl. 257—223)



1. A single pass heat exchanger having an elongated cylindrical shell provided with an axially located aperture at one end, means fixed to said shell for giving said pass a rectangular internal cross section thru its central portion, a thick head for closing said shell at the end opposite said aperture, said head having a central aperture and parallel inlet and outlet chambers therein as well as apertures connecting with said chambers and extending to its inner face, a group of serpentine tubular elements in said shell extending thru said rectangular portion and having their ends seated on the end of said head at said last mentioned apertures so as to communicate with the said chambers, and means for releasably securing said elements to said head.

1,942,879
REFRACTORY MATERIAL AND BATCH AND METHOD FOR MAKING THE SAME
Frank H. Riddle, Detroit Mich., assignor, by mesne assignments, to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware
No Drawing. Application May 7, 1931
Serial No. 535,799
18 Claims. (Cl. 106—9)

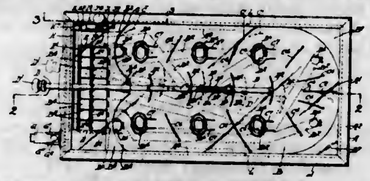
1. A batch for a ceramic material comprising andalusite and finely divided sintered alumina.

1,942,880
GAME DEVICE
David C. Rockola, Chicago, Ill.
Application July 21, 1932. Serial No. 623,715
3 Claims. (Cl. 272—121)

1. In combination in a counter game device, a member defining a playing field, a counter collector on a level different from that of the field,

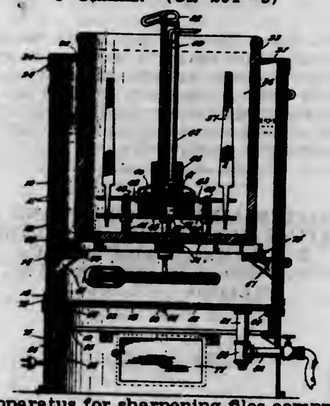
CARNEGIE LIBRARY OF ATLANTA

a retainer adapted to prevent movement of the counters from the collector and means for moving it to free the counters, a feed trough adjacent the collector, a unitary moving and projecting lever adapted to move a counter from the trough to the level of the playing field and to project



it thereupon, a movably mounted stop, means for normally retaining the stop in position to prevent movement of the counters from the trough, means for moving the projector and means for causing the stop to move in response to movement of the projector.

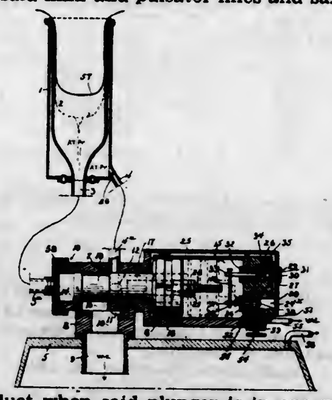
1,942,881
APPARATUS FOR SHARPENING FILES
August A. Roth, Baltimore, Md.
Application August 5, 1932. Serial No. 627,645
8 Claims. (Cl. 204—5)



1. Apparatus for sharpening files comprising a tank adapted to be filled with water, an electric heater immersed in the tank for heating the water, means for connecting the heater to a source of current supply, an earthen vessel nested within the tank in contact with the water and adapted to contain an electrolyte, a holder for supporting the files in the vessel in contact with the electrolyte, and means for connecting the tank and the holder in circuit with said source of electricity.

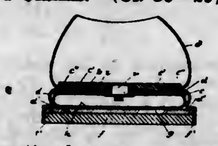
1,942,882
MILKING APPARATUS AND PROCESS
Angus Sutherland, Vancouver, British Columbia, Canada
Application October 23, 1931. Serial No. 570,699
3 Claims. (Cl. 31—62)

1. In a power milking apparatus wherein are provided teat cups, milk and pulsator lines connected therewith, and a pulsator; a pulsator which comprises a cylinder having a piston chamber, a neck having a plunger chamber, a cylinder head and a neck cap, a piston with a plunger operating respectively in said cylinder and neck chambers, said neck having a coupling attachment to a milk bucket, said milk line extending from said teat cup to said neck chamber and being in constant communication with the same, said pulsator line extending from the teat cup to a port provided in the neck and controlled by said plunger, said coupling attachment having a duct communicating with said neck chamber and controlled by said plunger, said plunger having provisions for closing communications between said milk and pulsator lines and said cou-



pling duct when said plunger is in one position and for effecting communication between said coupling duct and said pulsator line when said plunger is in another position, and for effecting communication between said coupling duct and both said milk and said pulsator lines when said plunger is in a third position, and means to reciprocate said plunger and to create a partial vacuum in said coupling duct.

1,942,883
PNEUMATIC SHOE
Adolf Schäffer, Veliki-Beckerek, Yugoslavia
Application August 15, 1931. Serial No. 557,314
4 Claims. (Cl. 36—29)

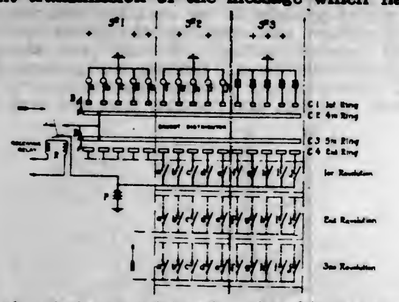


1. A pneumatic shoe, comprising in combination with an upper, a sole, an insole, and a welt of a shoe, a rubber air cushion between said sole and inner sole, the insole being marginally rabbeted on its under side to accommodate in such rabbet the lower edge of said upper, and the upper edge of said welt, and a projecting plate under said inner sole and extending out at its edge over the upper edge of said air cushion.

1,942,884
METHOD OF AND MEANS FOR RADIO-SIGNALING
Clèment Soullié, Paris, France
Application May 28, 1931, Serial No. 540,716, and in France July 30, 1930
11 Claims. (Cl. 250—8)

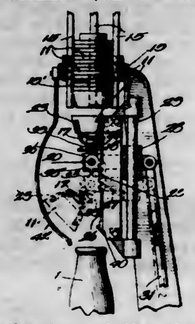
1. Method of eliminating the effects of fading and like disturbances from radiotelegraphic messages, which comprises transmitting the message a plurality of times, receiving the repeated transmissions of the message in a receiving device, registering the signals received from the first transmission of the message, successively registering as received and adding to the said first

signals, the signals received from each subsequent transmission of the message which have



not already been registered, and making a record from all the signals so registered.

1,942,835
BOTTLE CAPPING MACHINE
Olof N. Tevander, Chicago, Ill., assignor to Standard Cap & Seal Corporation, Chicago, Ill., a corporation of Virginia
Application December 26, 1925
Serial No. 77,850
7 Claims. (Cl. 226—83.1)

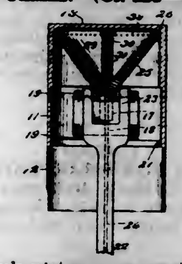


7. In a mechanism of the class described, a support; a magazine carried by said support adapted to contain a plurality of juxtaposed articles; means associated with said magazine for normally retaining the articles in said magazine; a distortable article transpositioning member; means for moving said member between an article seizing position and an article delivery position; means effective at the time of contact of said distortable member with an article in said magazine for establishing a differential pressure within said member establishing a seal with said article for carrying the same past said article retaining means; and means cooperating with said member for admitting air thereto upon movement of the member to a different position, effecting a release of the article carried thereby.

1,942,836
METHOD OF PRODUCING NITRATES AND RECOVERY OF NITRIC OXIDE
Bruno Uebler, Berlin, Germany
No Drawing. Application June 17, 1929, Serial No. 371,707, and in Germany September 17, 1927
2 Claims. (Cl. 23—161)

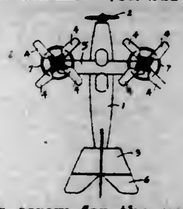
1. In the process of producing nitrates from chlorides and nitric acid or nitrous gases, the step of regenerating nitric oxide from the nitrosyl chloride evolved together with chlorine comprising passing this mixture over ferric chloride to form an addition compound of ferric chloride and nitrosyl chloride, heating said addition compound to recover the nitrosyl chloride in a substantially pure form, passing said pure nitrosyl chloride at ordinary temperature over iron to form nitric oxide and an addition compound of ferric chloride and nitrosyl chloride, the nitric oxide being re-used in cycle.

1,942,837
PISTON
Pier Giorgio Vanni, Milan, Italy
Application October 6, 1931, Serial No. 567,188, and in Germany March 9, 1931
9 Claims. (Cl. 123—176)



6. In a trunk piston a separately formed and inserted structure having a peripheral extension abutting the piston crown and tapering therefrom to a central extension abutting the piston pin; the inserted structure having not only a peripheral portion but also a central column abutting against the piston crown.

1,942,838
HELICOPTER LIFTING SCREW AND OPERATING MECHANISM THEREFOR
Paul F. West, Philadelphia, Pa.
Application February 16, 1932. Serial No. 657,110
12 Claims. (Cl. 244—19)

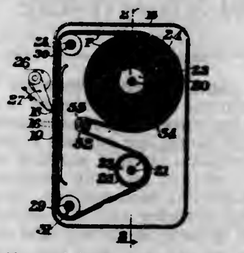


1. A lifting screw for the use with aircraft, comprising in combination a hub having airfoils movably mounted thereon; a hub housing surrounding said hub. Said hub housing having slots at the point where the airfoils protrude, permitting it to oscillate around the hub; a pitch changing mechanism actuated by the different relative positions of the hub and hub housing.

1,942,839
PROCESS OF PERFORMING ENDOTHERMIC GAS REACTIONS
Thomas Sherlock Wheeler and David Binnie, Northwich, England, assignors to Imperial Chemical Industries Ltd., a corporation of Great Britain
No Drawing. Application February 18, 1931, Serial No. 516,223, and in Great Britain February 26, 1930
1 Claim. (Cl. 260—170)

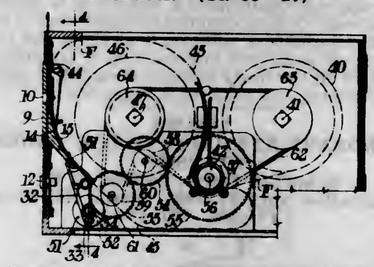
The process of forming acetylene by the pyrolysis of methane which comprises passing a mixture of methane, hydrogen and chlorine through a reaction tube at a minimum velocity of about 64,000 centimeters per minute and at a high temperature, said high temperature being obtained by the exothermic formation of hydrochloric acid in the same gas mixture.

1,942,890
MOTION PICTURE FILM MAGAZINE
Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application August 10, 1931. Serial No. 556,186
10 Claims. (Cl. 88—18.4)



2. In a motion picture apparatus, the combination with a film magazine having a gate and adapted to contain a pair of film rolls rotatable about fixed axes, said film being adapted to extend between said rolls and through said gate, and a belt means adapted to make frictional contact with the outer convolutions of said film rolls, of a film advancing mechanism adapted to engage and move the film through said gate and between said film rolls within the magazine.

1,942,891
MOTION PICTURE FILM MAGAZINE
Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application June 9, 1932. Serial No. 616,225
27 Claims. (Cl. 88—17)

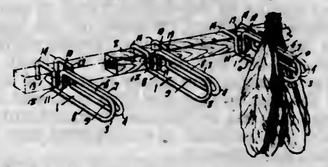


1. In a magazine for motion picture apparatus, the combination with a closed film container, of a film gate including two relatively movable members between which a film may pass, and a resilient gate mount upon which the entire gate may move relative to the container.

1,942,892
INSECTICIDE AND INSECTIFUGE
Elmer W. Adams and George M. McNulty, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application June 29, 1931
Serial No. 547,792
12 Claims. (Cl. 167—22)

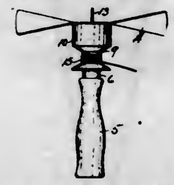
7. An insectifuge comprising a mineral oil and a furoic acid ester.

1,942,893
APPARATUS FOR HANGING TOBACCO
Gordon Don Harris, Old Greenwich, Conn., assignor to The Industrial Dryer Corporation, Stamford, Conn., a corporation of Connecticut
Application June 26, 1931, Serial No. 547,097
Renewed December 27, 1932
8 Claims. (Cl. 131—21)



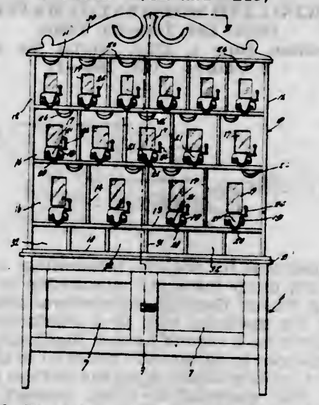
1. A device for hanging tobacco on a tobacco carrying stick comprising a wire like member bent into the form of a UU loop, said loop being deformed so that the legs thereof form a skeleton of a triangular prism, the ends of said loops being bent to form clasps for frictionally securing the loops to the tobacco carrying stick.

1,942,894
TOY
Lewis B. Holbrook, Norwich, Conn.
Application April 30, 1932. Serial No. 608,426
2 Claims. (Cl. 46—51)



1. A plurality of separate blades for a flying toy, the latter comprising a spinner with pins projecting therefrom, said blades having holes to receive said pins to dispose the blades in staggered relation on said pins.

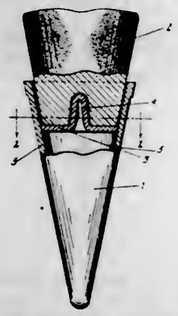
1,942,895
SEED DISPENSING CABINET
Arch Lee Jones, Henderson, Ky.
Application June 7, 1932. Serial No. 615,902
1 Claim. (Cl. 221—146)



A seed dispenser of the class described comprising a unit including a multiplicity of distinguishable seed containing and discharging

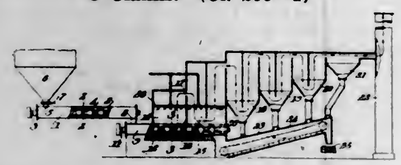
bins, each bin having a front wall provided with a window, a discharge opening below said window, a plate attached to said front wall and having an inclined spout alined with said discharge opening, a gate valve pivoted on said plate and co-operable with the opening and spout, a retaining latch on said wall for holding the gate valve closed, an inclined gravity chute in the bin, feed means at the delivery end of said chute to expedite placement of seeds in the bin, a triangular inclined block in the frontal corner portions of the bin for deflecting the seed to said discharge opening, the upper portion of the front wall of the bin having a return slot, and an outstanding trapping receptacle on said front wall to facilitate replacement of excess seed into the bin from the front thereof.

1,942,896
ICE CREAM CONE
David J. Jones, Binghamton, N. Y., assignor to MacElhone Methods, Inc., Binghamton, N. Y., a corporation of New York
Application June 20, 1932. Serial No. 618,279
4 Claims. (Cl. 99—11)



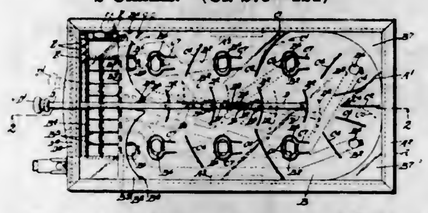
1. An edible substantially cone shaped holder for a frozen confection having an open end and supporting means for said confection in said holder intermediate its ends, said supporting means having an upwardly extending portion centrally thereof.

1,942,897
COOLING AND MOISTENING MATERIAL
Oscar Lee, Isabella, Tenn.
Application June 3, 1932. Serial No. 615,238
8 Claims. (Cl. 266—1)



4. Apparatus for cooling, moistening, and conveying hot dusty materials comprising in combination a broken flight spiral conveyor adapted to contact the material with heat conductive radiation surfaces, a second broken flight spiral conveyor adapted to agitate the material in the presence of a cooling liquid, spraying devices for subjecting said material to direct contact with a cooling liquid while in said second conveying means, and settling chambers adapted to collect the dust and fumes arising from said second conveying means.

1,942,898
GAME DEVICE
William L. Nelson, Chicago, Ill., assignor to Rock-Ola Mfg. Co., Chicago, Ill., a corporation of Illinois
Application July 21, 1932. Serial No. 623,717
2 Claims. (Cl. 273—121)



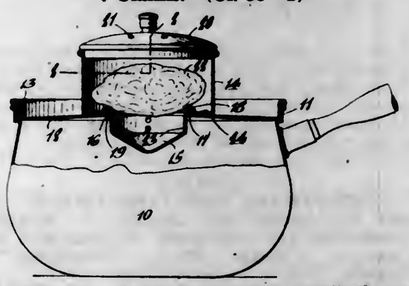
1. In a game device, a member defining an inclined playing surface, means for moving a counter to the upper end of said surface whereby it may move along the surface from top to bottom, obstructions on said surface, and a player controlled counter guiding member movably mounted adjacent said surface, means whereby said guiding member can be moved along and across said surface in rotary and sliding movement.

1,942,899
SELF-LIGHTING CIGARETTE
John Parsons, Montclair, N. J., assignor to Pan-Ross Laboratories, Inc., New York, N. Y., a corporation of New York
Application May 22, 1931. Serial No. 539,166
18 Claims. (Cl. 44—43)



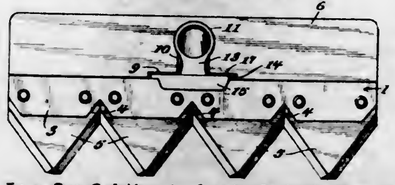
1. An ignition band to be applied to the end of a cigarette comprising a lamina of a self-oxidizing coal-forming combustible substance, a lamina of fulminating substance covering the outer surface of said first lamina, and a combustible adhesive on the inner surface of said first lamina for attaching the band to a cigarette.

1,942,900
DEODORANT ATTACHMENT FOR COOKING UTENSILS
Robert H. Peters, Buffalo, N. Y.
Application April 23, 1932. Serial No. 607,151
7 Claims. (Cl. 53—1)



1. A device of the character described, comprising a cover for a cooking utensil having a chamber containing openings for the passage of the fumes from the food being cooked into said chamber and from the latter into the atmosphere, fluid-deodorant receiving means arranged in said chamber for intercepting the fumes emitted from the cooked food, and means for receiving any surplusage of the fluid-deodorant and preventing its entrance into the utensil.

1,942,901
FIRE FIGHTING TOOL
Charles H. Rich, Woolrich, Pa.
Application September 11, 1931
Serial No. 562,352
6 Claims. (Cl. 97—65)

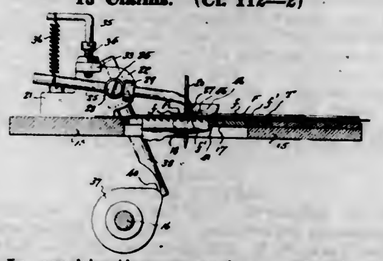


1. In a fire fighting tool, a body including portions disposed at right angles with respect to each other to provide upper and lower portions, said lower portion having a straight beveled outer lower edge, cutting blades secured to the lower portion and being provided with inclined beveled side edges and straight beveled outer edges, the cutting blades being arranged in row formation and engaging each other, and the meeting portions of the inclined beveled edges terminating in points flush with the lower edge of the bevel of the lower portion.

1,942,902
LACQUER AND PROCESS OF MAKING THE SAME
Leo Roon, Great Neck, N. Y., assignor to Roxalin Flexible Lacquer Company, Incorporated, Long Island City, N. Y., a corporation of New York
No Drawing. Application October 16, 1930
Serial No. 489,235
5 Claims. (Cl. 134—79)

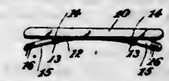
1. As a new article of manufacture, a cellulose ester lacquer having in suspension therein substantially uniformly dispersed finely divided solid particles of carnauba wax, said wax being substantially insoluble in the other ingredients of the lacquer at atmospheric temperatures and said lacquer remaining opaque with the wax in substantially uniformly dispersed solid particles at all atmospheric temperatures.

1,942,903
SEWING MACHINE FOR STITCHING OVER FASTENER MEANS
Leo Roseman, Newark, N. J.
Application November 10, 1930
Serial No. 494,525
13 Claims. (Cl. 112—2)



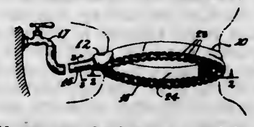
1. In combination, a sewing mechanism, including work-feeding means and a cooperating reciprocating needle; a stop-mechanism having an oscillatable stop means disposed at one side of the path of needle descent in opposition to the movement of fasteners as carried toward said sewing mechanism by said work feeding means; said stop means having its front face in a plane in advance of the path of needle descent; and means to produce operative substantially vertical oscillation only of said stop means in synchronism with each stitch forming operation of said sewing mechanism.

1,942,904
COLLAR CLASP
William H. Schoonmaker, Montclair, N. J.
Application December 12, 1931. Serial No. 580,567
3 Claims. (Cl. 24—81)



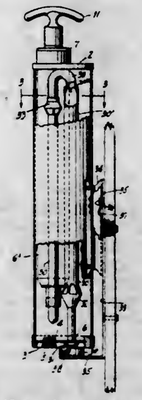
1. A clasp of the character described comprising a bar, a leaf member pivotally secured to said bar in such manner as to form a spring, the ends of which constitute tabs resiliently forced toward the bar in one position and away therefrom in another position, and gripping members extending from each tab.

1,942,905
BATH SPRAY DEVICE
John Semkow, New York, N. Y.
Refiled for abandoned application Serial No. 530,245, April 15, 1931. This application June 30, 1932. Serial No. 620,264
5 Claims. (Cl. 4—157)



1. A bath spray device, comprising a strip of stiff resilient material formed into the shape of a collar for encircling one's neck or other portions of the body, a resilient tubular spraying element upon said strip, a plurality of resilient nozzles projecting from said tubular spraying element, a plurality of internal tubular members within said tubular spraying element and coaxially upon said nozzles, rigid arms projecting from said tubular members, a wire laced through the free ends of said arms, and an adjustable coupling upon the ends of said wire.

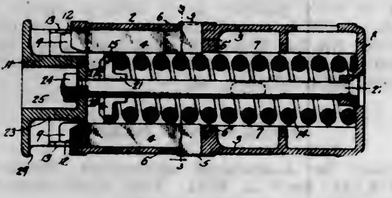
1,942,906
FIRE EXTINGUISHER
Lee George Suggs, Seattle, Wash.
Application January 2, 1932. Serial No. 584,439
4 Claims. (Cl. 169—33)



2. A device of the class described comprising a hollow cylinder disposed at both of its ends, an

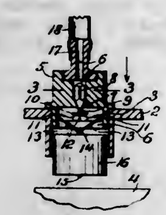
air pump disposed within the cylinder, a tube extending from one end of the pump to the exterior of the cylinder and means within the tube for receiving the contents of the cylinder when positioned vertically for directing its discharge either in an upward or downward direction.

1,942,907
DRAFT GEAR
Hubert L. Spence, East Cleveland, Ohio, assignor to National Malleable & Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application December 31, 1930
Serial No. 505,750
6 Claims. (Cl. 213—32)



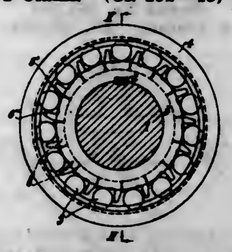
2. In a draft gear, a case, cushioning means comprising springs extending substantially the length of said case, certain of said springs extending adjacent the side walls of the case, and another of said springs being positioned in a central portion of the case, friction elements mounted in said case in spaces between said springs, shoes engaging said friction elements, and spring seating means interposed between said shoes and springs, said spring seating means having means cooperating with said spring for maintaining all of said springs in a given relation to each other.

1,942,908
LIQUID FEEDING MECHANISM
Raymond K. Swain, Kansas City, Mo., and Richard O. Davis, Merriam, Kans.
Application June 19, 1931. Serial No. 545,423
1 Claim. (Cl. 137—68)



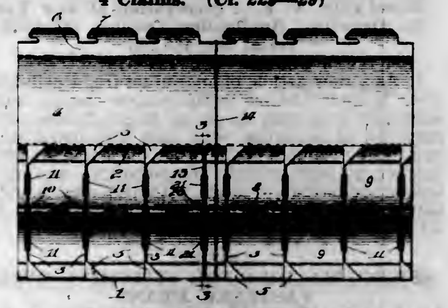
In a liquid feeding mechanism, a closure having a passage, a valve movable downwardly to a position closing said passage, a float, two levers pivoted to said closure on an axis intersecting the vertical central line of said closure and adapted when swung in one direction to engage and lift said valve to the open position, and two links pivoted to said float on an axis intersecting the vertical central line of said float and adapted to support said float and respectively pivoted to and adapted to swing said levers in said direction when said float lowers.

1,942,909
FREEWHEEL MECHANISM
Hubert Freiherr von Thüngen, Friedrichshafen, Bodensee, Germany, assignor to Zahnradfabrik Friedrichshafen Aktiengesellschaft, of Friedrichshafen, Bodensee, Germany
Application June 8, 1932, Serial No. 616,077, and in Germany July 15, 1931
1 Claim. (Cl. 192—45)



A free wheel mechanism comprising; two circular members, one within the other; a plurality of rollers fitting into the space between said members; and a plurality of elements, one for each roller, fitting into a groove provided on one of said circular members, said elements each having a wedge-shaped surface facing the roller it belongs to and a projection projecting into the space between its roller and the adjacent roller, said projection having its root at the lower-most portion of said wedge-shaped surface.

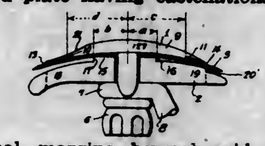
1,942,910
SEPARABLE CELLULAR CARTON
John E. Walsh, Chicago, Ill.
Application October 23, 1931. Serial No. 570,595
4 Claims. (Cl. 229—29)



1. A carton formed of a blank cut, secured and folded to produce a body portion and integral transverse partitions extending across the interior of the body portion; a separate transverse partition near but spaced apart from one of the transverse partitions; and interlocking elements on the body portion of the carton and said separate partition to hold the latter in place; the blank having a weakened line extending across the same in the space between the two last-mentioned partitions to permit the carton to be divided into two cartons along said line.

1,942,911
SAFETY RAZOR
John W. Ashworth, New York, N. Y., assignor to Ashworth Advertising Company, Incorporated, New York, N. Y., a corporation of New York
Application December 1, 1930. Serial No. 499,258
4 Claims. (Cl. 30—12)

1. A safety razor comprising a guard plate and a clamping plate with means to clamp said plates together on an interposed blade, the adjacent faces of said plates being provided with cooperating abutments having flat parallel opposing faces elevated above the body of each plate and extending longitudinally of the plates and substantially medially disposed with respect thereto, said guard plate having castellations along its



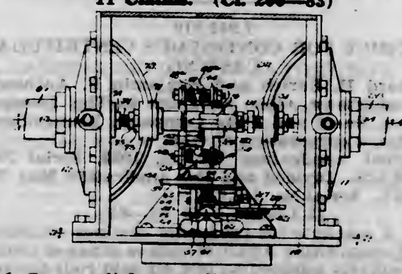
longitudinal margins beyond said abutments with the castellations along one margin stepped down from the upper surface of the plate at a distance from the adjacent edge of its abutment and the castellations of the other margin flush with the upper surface of the plate.

1,942,912
SAFETY REMOVABLE HOOK FASTENER SLIDE
Abraham Bebel, New York, and Barney Pruzan, Brooklyn, N. Y.
Application November 23, 1932
Serial No. 643,960
8 Claims. (Cl. 24—205)



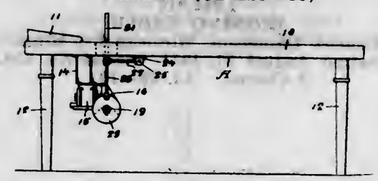
1. A safety removable hook fastener slide, comprising upper and lower spaced trapezoidal guide plates hingedly connected at the central portion of the larger ends, a post between the guide plates at the central portion of the larger ends and comprising a pair of spaced post sections on the upper guide plate engageable against the lower guide plate to act as a stop for limiting closing movement of the guide plates and a central post section on the lower guide plate extending up between said spaced post sections and above the upper guide plate, an opening in the upper guide plate the extended end of the central post section being formed with an opening, a latch swiveled on the upper guide plate and adapted to engage in the opening in said central post section when the guide plates are in closed position, and a handle pivotally mounted on said latch and having a cam portion normally extending into the opening in the upper guide plate for limiting swiveling of the latch except in a certain inclination of the handle.

1,942,913
DIFFERENTIAL GOVERNOR
Paul W. Beggs, Chicago, Ill., assignor, by mesne assignments, to Jas. P. Marsh Corporation, Chicago, Ill., a corporation of Illinois
Application February 16, 1931. Serial No. 516,125
11 Claims. (Cl. 200—83)



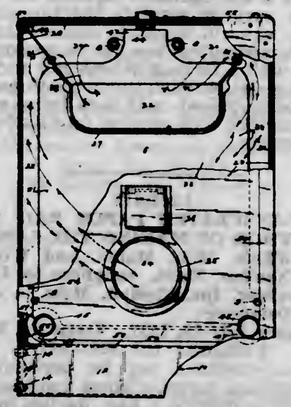
1. In a switch operating mechanism adapted for connection to a plurality of pressure responsive elements, the combination of relatively movable members connected respectively to said elements, and means carried by one of said members and operatively related to a switch for moving the latter to "on" and "off" positions when said one of the members and the pressure responsive elements connected thereto are moved as a unit in opposite directions, said members having cooperable means associated therewith and being adapted to be held in relatively fixed position with respect to each other by the action of said elements.

1,942,914
THERAPEUTIC APPARATUS
Everett A. Buck and Lloyd W. Morey, Millinocket, Maine,
Application February 6, 1933. Serial No. 655,522
4 Claims. (Cl. 128—33)



2. An apparatus of the character described comprising a table having spaced transversely aligned openings at opposite sides of its longitudinal center, a motor supported beneath the table and having a power shaft, a driven shaft journaled beneath the table, a toothed gear loose upon said driven shaft, a driving screw on the power shaft of the motor and meshing with said driven gear, a wrist pin eccentrically mounted in the driven gear, a striker arm fixed to the driven shaft and engageable with the wrist pin, a pitman eccentrically connected with the driven shaft, a cross rod carried by said pitman, a swinging arm pivoted beneath the table and connected with the cross rod, means for tensioning the swinging arm when moved in one direction, an applicator strap working through the openings in the table and removably connected with the cross rod, and a headrest superimposed upon the table.

1,942,915
BOILER FOR HOT WATER HEATING SYSTEMS
Olof S. Burman, Minneapolis, Minn.
Application July 25, 1932. Serial No. 624,543
6 Claims. (Cl. 122—494)



1. A boiler of the class described having a combustion chamber, a casing for the boiler com-

prising top and side panels, the top panel of the casing being spaced from the top of the boiler to form an upper smoke flue, the receiving end of which is in communication with the combustion chamber, the sides of the casing being spaced from the side panels of the boiler to form branch smoke flues, a pair of baffle plates secured at one of their longitudinal edge portions to the boiler and having at their other longitudinal edge portions seats for the top and side panels, said baffle plates forming partitions between the upper flue and the branch flues, and arranged to leave smoke openings between the upper flue and the branch flues, said casing having a smoke pipe opening with which the branch flues have communication, and means for securing the panels in the seats.

1,942,916
IRONING TABLE
Charles Danielson, Minneapolis, Minn.
Application August 27, 1931. Serial No. 559,668
2 Claims. (Cl. 68—10)



1. A folding table comprising a board, a pair of rear legs connected to said board for forward and rearward pivotal movements, an oblique leg pivoted to said board and arranged to project forwardly from said rear legs, a tiebar connecting the lower portions of said rear legs, a strut bar pivotally connected to said oblique leg and detachably engageable with said board and with the intermediate portion of said tiebar, a tension rod pivotally connected to the free end portion of said oblique leg, an anchoring bracket on said tiebar, said tension rod having a threaded end passed through said anchoring bracket and provided with a nut operative against the same to adjustably vary or regulate the tension under which the legs will be set to support the board, and which anchoring bracket is approximately L-shaped with a forwardly bent end and is provided with a slot, through which the threaded end of said rod is passed, said slots being extended from its upright body portion into its forwardly offset extension.

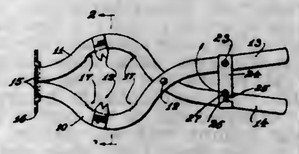
1,942,917
HEAT-INSULATED PAPER BAG AND METHOD OF MAKING THE SAME
John N. d'Este, Milo, Maine, and William E. Tower, Newton, Mass., assignors to Jiffy Pad and Excelsior, Inc., Boston, Mass., a corporation of Delaware
Application July 25, 1931. Serial No. 553,096
9 Claims. (Cl. 229—53)

5. A heat-insulated bag for perishable food stuffs comprising layers of sheet material formed and united to provide a bag, having inner and outer walls, and a layer of flexible fibrous heat-insulating material between said inner and outer walls and substantially surrounding said inner wall, said inner wall having edge portions secured



in face to face contact to said outer wall thereby to confine said layer of insulating material within the bag.

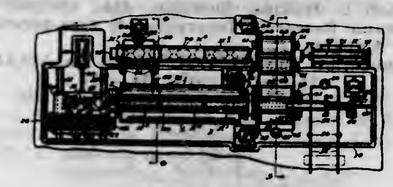
1,942,918
JAR COVER OPENER
Carl F. Disch, West Haven, Conn.
Application April 1, 1933. Serial No. 663,903
2 Claims. (Cl. 81—3.1)



1. In a jar-cover opener, a pair of substantially centrally hinged members, composed of handles and a jar-cover engaging means, the latter comprising outwardly arcuated jar-cover clamping and inwardly arcuated abutting portions, the latter portions terminating in bent attaching ends, said jar-cover clamping portions provided with internal gripping means, a locking element pivoted at one of the handles and adapted to engage the other handle, and means for facilitating the supporting of the opener by way of the bent ends when they meet.

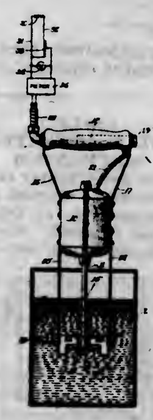
1,942,919
MACHINE FOR CONTINUOUS CENTRIFUGAL CASTING
Richard H. Eurich and Benjamin F. Anthony, Youngstown, Ohio, assignors to The Youngstown Sheet and Tube Company, Youngstown, Ohio, a corporation of Ohio
Original application May 7, 1930, Serial No. 450,339. Divided and this application May 20, 1932. Serial No. 612,611
12 Claims. (Cl. 22—65)

1. A machine for producing castings centrifugally, comprising a pair of rolls, a series of molds respectively adapted to rest on said rolls for rotation thereby, means for introducing molten metal to each mold as the molds are consecutively brought to a predetermined position adjacent one end of said rolls, and means for traversing



the molds toward the opposite end of the rolls after each mold has received its charge.

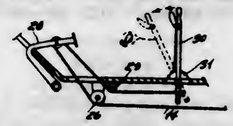
1,942,920
VISCOSIMETER
Charles Elliott Fawkes, Chicago, Ill., assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application January 10, 1930. Serial No. 419,964
7 Claims. (Cl. 265—11)



6. In an electrically driven viscosimeter having a rotary shaft adapted to be freely immersed in a body of liquid, a form of revolution on said shaft whereby friction with the liquid is obtained without mechanical propulsion of the liquid, and a series of baffle plates positioned in planes which intersect at the axis of said shaft and having recesses therein into which extends the form of revolution, said plates having the edges of said recesses terminating closely adjacent the periphery of said form of revolution.

1,942,921
SANDING DEVICE FOR AUTOMOTIVE VEHICLES
Henry J. Gagnon, Bay City, Mich., assignor of one-half to Flora Gagnon, Bay City, Mich.
Application March 26, 1932. Serial No. 601,371
2 Claims. (Cl. 291—32)

1. A sanding device for automobiles, comprising a sand box adapted to be mounted on the vehicle running board, a container secured to the running board and communicating therewith, a valve in said container, a bell crank pivotally mounted on the vehicle, a rod connecting one leg of said bell crank with the valve, flexible means connected to the opposite leg of the bell crank and trained over the vehicle brake pedal, and a manually actuated lever to which the end of said



flexible means is anchored to permit either automatic or manual operation of said sanding device.

1,942,922
GOLF CLUB GRIP
Leonard H. Gerow, Toledo, Ohio
Application April 25, 1932. Serial No. 607,269
3 Claims. (Cl. 273—81)



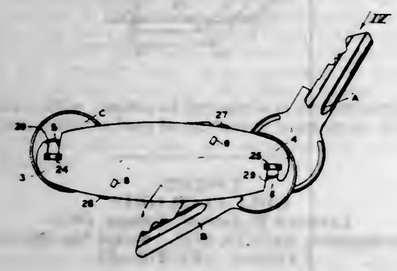
1. A detachable grip for clubs comprising a pair of complemental hinged plate members curved transversely throughout their lengths and hinged together along one longitudinal edge, said plates being shaped as to form a truncated cone, when in closed position, and means urging said hinged sections to open position.

1,942,923
METHOD OF TREATING COPPER AND COPPER ALLOYS
Clarence E. Irion, Columbus, Ohio, assignor to The Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
Application November 11, 1932
Serial No. 642,251
18 Claims. (Cl. 148—6)



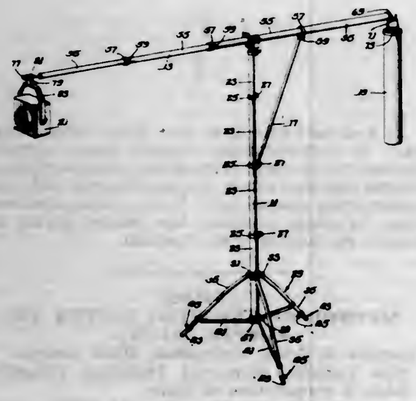
1. The method of treating copper or its alloys to prevent tarnishing which comprises treating it with a solution containing a soluble salt of hydroferrocyanic acid.

1,942,924
KEY RETAINER
John Jachens, San Francisco, Calif.
Application May 24, 1932. Serial No. 613,183
7 Claims. (Cl. 59—96)



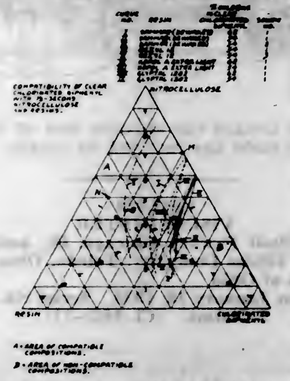
1. A key retainer including a handle, an arm pivoted in said handle, key engaging means on said arm, and a latch on said arm engaging a fixed abutment on said handle.

1,942,925
PORTABLE BOOM SUPPORT
John Elliott Jenkins, Chicago, Ill., assignor to Jenkins & Adair, Inc., Chicago, Ill., a corporation of Illinois
Application February 15, 1932. Serial No. 593,108
12 Claims. (Cl. 248—43)



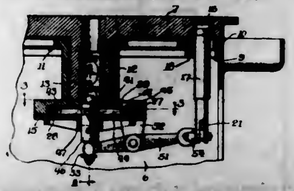
11. In a suspension device for microphones or the like, a boom, a standard, means to mount the boom on the standard comprising a sleeve mounted on the standard for tilting movement about a horizontal axis and for pivotal movement about a vertical axis and adapted to receive the boom, means at one end of the boom to support a microphone or similar device, means at the other end of the boom to provide a counterbalance to maintain the boom in a state of substantial equilibrium on the standard, said boom being axially slidable in the sleeve to adjust the boom to a state of balanced equilibrium on the standard, and means to secure the boom in adjusted position with respect to the sleeve.

1,942,926
COMPOSITION CONTAINING CHLORINATED DIPHENYL AND NITROCELLULOSE
Russell L. Jenkins, Anniston, Ala., assignor to Swann Research, Incorporated, a corporation of Alabama
Application May 25, 1931. Serial No. 539,844
14 Claims. (Cl. 134—79)



1. A coating composition containing nitrocellulose and chlorinated diphenyl.

1,942,927
HYDRAULICALLY ACTUATED INDEXING MECHANISM
Albert M. Johnson and Chester O. Holland, Rockford, Ill., assignors to Barnes Drill Co., Rockford, Ill., a corporation of Illinois
Application June 15, 1931. Serial No. 544,404
7 Claims. (Cl. 90—56)



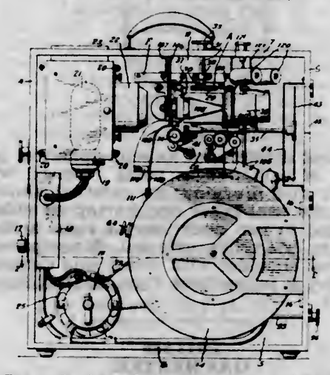
1. An indexing mechanism for machine tools having in combination with a rotatable table, an annular member concentric with the table, fluid-actuated reciprocatory power means connected to said member and including a dash-pot to retard the power stroke of said means, a reciprocable bolt positioned diametrically within said member and held against rotation relative to the table, a pin extending transversely of said bolt, and a plunger reciprocable transversely of said bolt, said plunger having a slot oblique to the axis thereof receiving the projecting end of said pin to project said bolt into positive engagement with said member.

1,942,928
COSMETIC CONTAINER
Nathan Kaslow, New York, N. Y.
Application March 28, 1931. Serial No. 524,595
10 Claims. (Cl. 132—79)



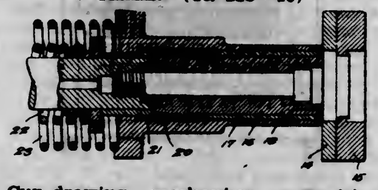
1. In a cosmetic container, in combination, a casing, a cover for said casing, a plate spaced from the bottom of said casing and a brush holder resiliently operated to be normally extended above said casing when the device is open and capable of placement within the device when it is in closed position.

1,942,929
MOTION PICTURE PROJECTOR "B"
Louis B. Larsen, Chicago, Ill., assignor to Acme Motion Picture Projector Company, Chicago, Ill., a corporation of Illinois
Application November 14, 1922
Serial No. 600,968
13 Claims. (Cl. 88—17)



12. In a device of the character described, in combination, a revoluble shaft, a reel mounted on and driven by said shaft, a pulley revoluble on said shaft, a friction drive between said pulley and shaft, an auxiliary pulley revoluble on said shaft, and a clutch between said pulleys for connecting either but not both of said pulleys positively to said shaft.

1,942,930
APPARATUS FOR PRODUCING DEEP CUPS FROM SHEET METAL
William C. Ludington, Muncie, Ind., assignor to Ball Brothers Company, Muncie, Ind., a corporation of Indiana
Application January 12, 1931. Serial No. 508,183
2 Claims. (Cl. 113—46)



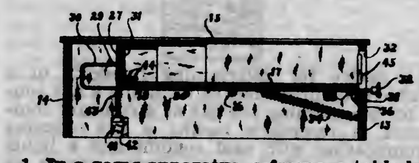
1. Cup-drawing mechanism comprising a multi-shouldered die formed for a plurality of simultaneous diameter-reducing drawing operations, and a cooperating punch comprising a central punch projectible through the smallest eye of the die, and a plurality of individually spring-backed sleeves sleeved upon the central punch, the outer one of said sleeves sized to be obstructed by the largest orifice of the die and to cooperate therewith to clamp the metal to be operated upon between itself and such largest orifice, and each subjacent sleeve being sized to be projectible into the die and to cooperate with the next smallest orifice of the die to clamp the metal to be operated upon between itself and a shoulder of the die, the shoulders of the die being so axially spaced that, when the center punch enters the smallest orifice of the die the several sleeves will be simultaneously in clamping engagement with the material being operated upon.

1,942,931
TOOTHBRUSH
Earl J. McWhirter, Seattle, Wash.
Application November 5, 1932. Serial No. 641,329
8 Claims. (Cl. 15—176)



1. A toothbrush comprising a head with bristles projecting therefrom, and formed of one piece of material, whereby there is no break or joint in the part which enters the mouth, a separable handle socketed at its head end, a stem projecting from the head and received within the handle socket, a clamping bolt extending through the handle and threadedly engaged with said stem, and means interengageable between the head and handle to prevent relative rotation when the parts are assembled.

1,942,932
GAME APPARATUS
James S. Nicholas, Akron, Ohio
Application December 8, 1931. Serial No. 579,702
7 Claims. (Cl. 273—145)

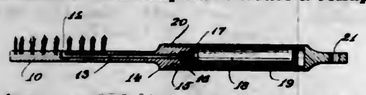


1. In a game apparatus, a frame, a table hingedly mounted therein, for tilting movement between a horizontal position and an inclined position, means normally tending to move the rear end of said table to a downward position, a container at the rear end of said table, said container having a forwardly presented open end, a plunger in said container and spring operated means to force said plunger forwardly to eject dice from said container to said table.

1,942,933
TOOTHBRUSH
Louis Ottenstreer, Newark, N. J.
Application March 11, 1933. Serial No. 660,340
1 Claim. (Cl. 15—135)

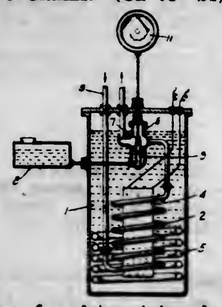
In a tooth brush, an elongated, substantially flat brush member having a symmetrically enlarged, substantially cylindrical handle-attaching end, and a bristle carrying end, an internal, centrally

located passage provided in said member, one end of said passage terminating at one face of the flat, bristle-carrying face, centrally between the bristles, the other passage end terminating in an internally threaded socket provided in said handle-attaching end, the latter end being recessed over the largest part of its outer surface, the non-recessed part serving as a handle stop-bead, a hollow handle removably associated with said brush member and adapted to house a collapsible



container, one end of the handle, adapted to engage the recessed end of the brush member and to abut with said stop-bead, provided with through-slots for rendering it resilient and for assuring its frictional engagement under tension with the recessed end of the brush member, the other handle end being reduced and perforated for facilitating the suspension of the device, and a collapsible dentifrice container having a threaded orifice disposed within the handle and secured to the threaded terminus of said passage.

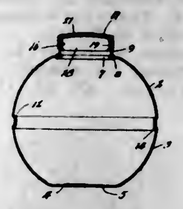
1,942,934
HYGROMETER
Lewis Reeve, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 3, 1931, Serial No. 519,754, and in Great Britain March 4, 1930
5 Claims. (Cl. 73—24)



4. A device for determining humidity of a gas which comprises means including a gas conduit for maintaining the gas at a constant temperature, a receptacle having a gas chamber communicating with said conduit and a liquid chamber, a wet bulb thermometer having its bulbous end disposed in the gas chamber, a wick carried on and around said bulbous end having a free end disposed to be extended into said liquid chamber, means forming a constricted opening between said chambers for receiving the free end of the wick, and a liquid leveling tank for maintaining a supply of liquid in the liquid chamber at a predetermined level.

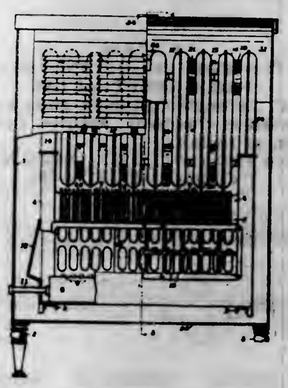
1,942,935
POWDER BOX
Frederick R. Reutter, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application June 1, 1931. Serial No. 541,139
2 Claims. (Cl. 220—5)

2. A loose powder container comprising a pair of substantially semi-spherical members, one of which has a flattened end for supporting the container upright, and the other of which has a neck providing a distributing orifice, a distributor and a closure for said neck, and means for securing said semi-spherical members assembled together by resilient frictional engagement one with the other, said means comprising a pair of inter-engaging annular flanges, one on each of said members, each flange having a diameter less than



the greatest diameter of its semi-spherical member, one of said flanges being received within the other and providing an external abutment shoulder for that other and having an enlarged end curved in two directions at right angles to each other, the other, external, flange providing an internal shoulder with which said curved enlarged end is in resilient frictional holding engagement.

1,942,936
GAS HEATER
George Foster Reznor, Mercer, Pa., assignor to Reznor Manufacturing Company, Mercer, Pa., a corporation of Pennsylvania
Application April 12, 1932, Serial No. 604,751
Renewed October 19, 1933
6 Claims. (Cl. 126—90)

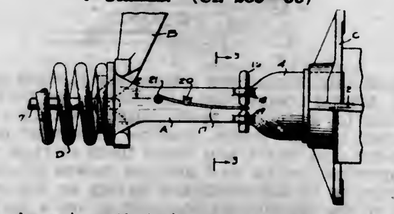


1. In a gas heater, a heating unit comprising a combustion chamber, gas burners in the same, a flue connected into the upper portion of each end of the chamber to carry therefrom the products of combustion, each flue being composed of a series of vertical pipes connected at alternate ends with cross-pipes, the vertical pipes and the cross-pipes forming two continuous serpentine-like conduits extending toward the central portion of the heater, and a common off-take flue connected to the ends of the flues conduits at the said central portion of the heater.

1,942,937
PROCESS OF HEAT TREATING FERROUS METALS
James A. Robertson and David Robertson, Toronto, Ontario, Canada, assignors of one-half to George F. McCandless, Toronto, Canada
No Drawing. Application June 20, 1932
Serial No. 618,297
5 Claims. (Cl. 148—14)

3. A process of heat treating ferrous metals, consisting in first preparing a mixture of finely ground slow-burning carbon-producing material, charcoal, manganese, chromium and borax, then packing the metal articles to be treated in such mixture, then raising the temperature of the entire body of material to from 1850° F. to 1950° F. effecting first, the combustion of the charcoal followed by the burning of the slow-burning carbon material to liberate gases which will reduce the silicon content, and open the grain and maintaining such temperature for a period to effect the desired penetration of the carbon, manganese and chromium into the grain of the metal.

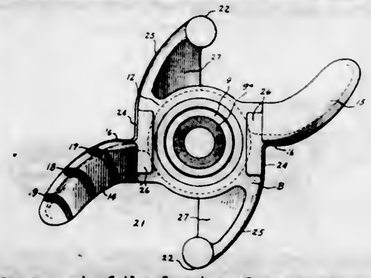
1,942,938
AUTOMATIC TRAIN PIPE CONNECTER
Joseph Robinson, New York, N. Y., assignor of one-half to Roy M. Wolvin, Montreal, Quebec, Canada
Application May 7, 1929, Serial No. 361,141
Renewed May 31, 1933
7 Claims. (Cl. 285—58)



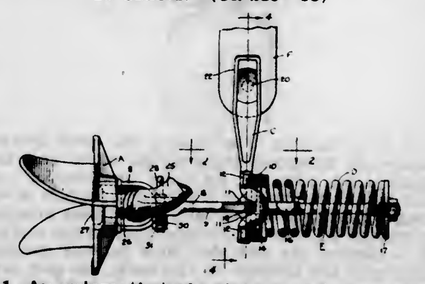
1. An automatic train pipe connector comprising in combination, a coupling head, a bracket for supporting the head from the car, means connecting the head and bracket, said means including a member having spaced straps which span or embrace the bracket, a conduit extending into the head and supporting a gasket disposed in substantially the plane of the coupling face of the head, said member being provided with a seat and said conduit being provided with a lug which projects into and rests upon said seat, and means for removably locking the conduit in said head and on said seat, said means including a U-shaped latch which extends downwardly through a part of said member and a part of said conduit to anchor the two together, a bearing on one of the straps of said member through which said latch extends and in which it moves, and means in the rear of said latch and connected thereto and to said member for resisting movement of the latch in said bearings and for holding the latch at the limit of its downward movement.

1,942,939
AUTOMATIC TRAIN PIPE COUPLING HEAD
Joseph Robinson, New York, N. Y., assignor of one-half to Roy M. Wolvin, Montreal, Quebec, Canada
Application May 27, 1929, Serial No. 366,441
Renewed May 16, 1933
10 Claims. (Cl. 285—58)

1. An automatic train pipe coupling head, comprising a base provided with suitable guiding means, a part of said guiding means comprising vertically extending inwardly curved portions a part of the front surface of which is positioned rearwardly and inclined with respect to the coupling face of said head.



1,942,940
AUTOMATIC TRAIN PIPE CONNECTER
Joseph Robinson, New York, N. Y., assignor of one-half to Roy M. Wolvin, Montreal, Quebec, Canada
Application September 24, 1929, Serial No. 394,856
Renewed May 23, 1933
10 Claims. (Cl. 285—58)

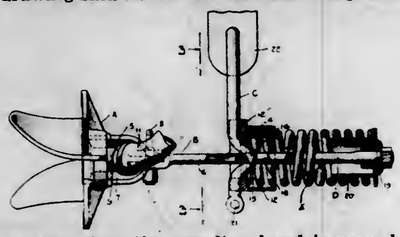


1. An automatic train pipe connecter comprising in combination, a coupling head, a bracket, a carrier connected with said head and extending rearwardly therefrom around the lower end of said bracket, a spring seated against the rear end of said carrier, said spring constituting the sole support against vertical movement for the rear end of said carrier when the coupling head is in the coupled position, and a tie rod extending through said spring and anchored to said bracket and a part extending across the bottom of the bracket sufficiently to prevent downward disconnection of the carrier from the bracket in event of breakage of the tie rod.

1,942,941
AUTOMATIC TRAIN PIPE CONNECTER
Joseph Robinson, New York, N. Y., assignor of one-half to Roy M. Wolvin, Montreal, Quebec, Canada
Application September 26, 1929, Serial No. 395,414
Renewed May 20, 1933
9 Claims. (Cl. 285—58)

1. An automatic train pipe connecter comprising in combination, a coupling head, a bracket, a carrier connected to the head and including spaced members which span said bracket and terminate at their rear end in an abutment having portions which embrace the bracket above and below said spaced members, a spring for sustaining the coupling head, and a tie rod engaging said bracket and extending rearwardly there-

from to anchor the spring to the bracket, and cooperating means on the bracket and carrier for drawing said tie rod forward and compressing



the spring when the coupling head is moved to extreme lateral positions, said means including a forwardly flaring surface on said abutment.

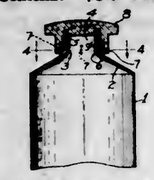
1,942,942

COLLAPSIBLE TUBE

William F. Schmalz, Rockville, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a corporation of Connecticut

Application June 20, 1932. Serial No. 618,244

4 Claims. (Cl. 221—60)



3. A collapsible tube having the neck thereof exteriorly threaded adjacent its outer end and unthreaded adjacent its inner or shoulder end and having on the said unthreaded portion of the neck a plurality of outward projections adapted to engage an inner unthreaded cylindrical surface of a closure cap provided with threads engageable with the threads on the neck, the said projections thus serving to frictionally hold the cap and prevent accidental loosening thereof.

1,942,943

FEED

Charles F. Schnabel, Kansas City, Kans.

No Drawing. Application April 15, 1933

Serial No. 666,324

2 Claims. (Cl. 99—11)

1. A feed comprising immature grasses grown in rich soil, in the sun, and cut at a stage of growth where join ing has not yet occurred, but is about to do so, and dried in such a manner as to retain substantially uninjured the original chlorophyll content of the grasses.

1,942,944

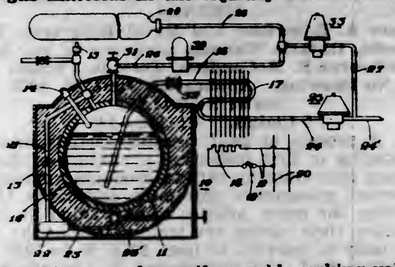
METHOD AND APPARATUS FOR DISPENSING GAS MATERIAL

Hallam C. Smith, Larchmont, N. Y., assignor to The Linde Air Products Company, New York, N. Y., a corporation of Ohio

Application June 13, 1933. Serial No. 675,577

13 Claims. (Cl. 62—1)

1. A method for dispensing gas material from a storage container for liquefied gas having gas receiving means connected to the discharge passage leading from the container, which method comprises discharging gas material in the gas phase from both said container and said receiving means into said passage while the gas pressure exceeds a desired working value, discharging gas material in the liquid phase when said



pressure becomes lower than said working value, and vaporizing the gas material in the liquid phase as discharged.

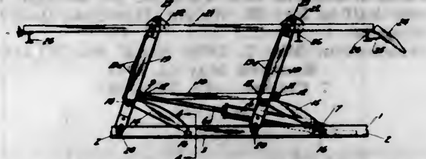
1,942,945

VEHICLE HOIST

Roy D. Smith, Davenport, Iowa, assignor to Bee Line Manufacturing Company, Davenport, Iowa, a corporation of Iowa

Application June 11, 1931. Serial No. 543,502

9 Claims. (Cl. 254—91)



1. A hoist comprising a base frame, levers having pivotal connection therewith, supporting means for an object to be raised pivotally connected to said levers, pushing means to push against said levers and cause them to raise the supporting means, and inclined means pivotally connected to said levers and having an end resting on the support for the hoist or on a part of the base, the pushing means acting between the levers and the inclined means to cause the former to be turned about their pivotal connections with the base frame.

1,942,946

COMPOSITION BOARD

Albert D. Stewart, St. Joseph, Mo.; Hasel Stewart administratrix of said Albert D. Stewart, deceased

Application September 22, 1930

Serial No. 483,531

5 Claims. (Cl. 72—124)



1. A wall comprising a plurality of composition boards arranged adjacent to each other in abutting relationship said boards being provided with

overlapping edges, the corners of said overlapping edges being cut away rearwardly whereby to provide a relatively continuous plaster receiving surface and an opposite surface having permanent expansion spaces adjacent the overlapping edges.

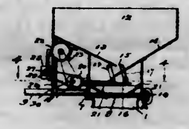
1,942,947

AUTOMATIC STOKER FOR COAL STOVES

Charles H. Strange, Pottsville, Pa.

Application September 1, 1932. Serial No. 631,308

10 Claims. (Cl. 110—108)



5. A stoker comprising a magazine adapted to be attached to a stove, said magazine having a fuel discharge opening through its bottom designed to register with the fuel opening of a stove, feed means located below the opening in the bottom of the magazine, an electric motor and connections between the motor and feed means for actuating said feed means, and a time switch connected in the motor circuit for periodically closing and opening the motor circuit.

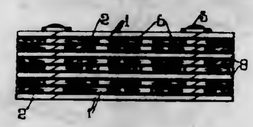
1,942,948

SCREEN

Percy Booth, Warrington, England

Application January 5, 1931, Serial No. 506,618, and in Great Britain October 2, 1930

2 Claims. (Cl. 209—393)



1. A screen of the character described, comprising a plurality of wires of wedge-shape in cross section secured together side by side in parallel relation, the adjacent wires forming between them narrow downwardly diverging slots extending longitudinally of the screen, each of said wires being provided at spaced intervals on its top surface with elongated ribs tapered in width and rising above the plane of the screen and above said slots, each pair of rib provided wires having the ribs of one wire tapered in width in directions opposite the ribs of the other wire and the tops of said wires being in substantially the same plane, the ribs on adjacent wires forming between them longitudinally discontinuous channels above said slots.

1,942,949

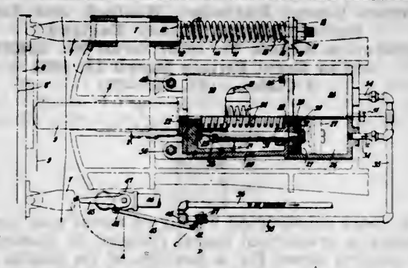
METHOD OF AND APPARATUS FOR EFFECTING TIGHT COUPLINGS

Chester K. Brooks, Kirtland Hills, and Ernest H. Schmidt, Cleveland Heights, Ohio, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio

Application April 16, 1929. Serial No. 355,456

3 Claims. (Cl. 213—223)

2. In combination, a vestibule platform buffer, friction means operatively connected with said buffer, means for transmitting fluid pressure to the first-named means to increase the frictional



resistance thereof, and means to control the operation of the second-named means.

1,942,950

FLORAL RACK

Clarence L. Brown, Hudson, Mich., assignor to Sawyer Manufacturing Company, Hudson, Mich., a corporation of Michigan

Application March 16, 1929. Serial No. 347,701

10 Claims. (Cl. 211—161)



1. A floral rack comprising a wire normally slanting upward and a prong member comprising a partially closed loop embracing the wire and a prong extending from one end of the loop, the loop being normally open a distance less than the diameter of the wire and having sufficient spring to return it to normal form after the loop is sprung open and placed around or removed from the wire.

1,942,951

SPOOL FOR PHOTOGRAPHIC FILMS

Thomas George Baxenden, Watford, and John Robert Collyear, Bushey, England

Application January 20, 1931, Serial No. 509,962, and in Great Britain February 11, 1930

1 Claim. (Cl. 242—71)



A photographic film spool comprising a blank rolled in the form of a cylinder, the edges of the blank having inturned lips, said lips being spaced apart for a portion of the length of the cylinder providing a slot and interlocking distortions provided in the lips beyond the ends of the slot and securing the inturned edges together.

1,942,952
CONSTRUCTION OF SPOOLS
Thomas George Baxenden, Watford, and John Robert Collyear, Bushey, England
Application August 21, 1931, Serial No. 558,622, and in Great Britain March 14, 1931
1 Claim. (Cl. 242—71)



A spool constructed wholly of metal and comprising a cylindrical barrel reduced in diameter or swaged down for a portion of its length at each end, end discs for said barrel, a thimble or ferrule welded to each disc, a key slot in one of said end discs, the edges of said key slot being turned inwardly, a corresponding but larger, key slot in the ferrule welded to this disc, the key slot in said ferrule having turned-in edges cooperating with the turned-in edges of the key slot in said disc, whereby said slots are aligned, said thimble or ferrule being forced over the end of said swaged down portion of said barrel to secure the end disc firmly in position.

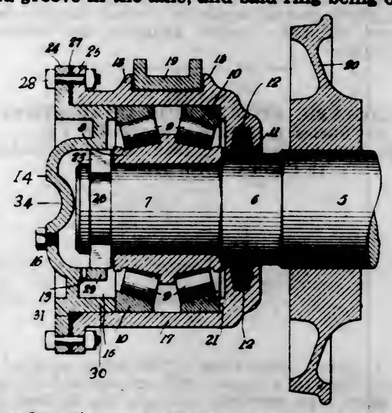
1,942,953
CONTAINER
John L. Bennett, Decatur, Ill., assignor to U. S. Manufacturing Corporation, Decatur, Ill., a corporation of Illinois
Application December 13, 1930
Serial No. 502,072
7 Claims. (Cl. 206—47)



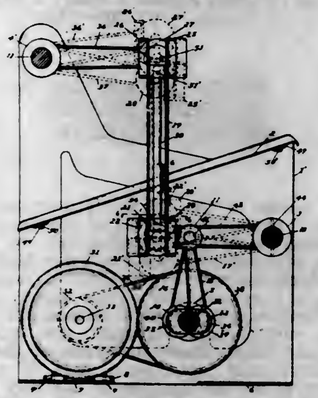
1. A container comprising an elongated body portion and having a removable cap at one end, a separate liquid container less in length than the main container and inserted into one end thereof, the bottom of the liquid container forming the end of a compartment within which polishing and cleaning accessories such as cloths may be stored and held by said removable cap, said main container having means for supporting the bottom of said liquid container therein and also having the edge of its other end bent over and engaging the upper portion of said liquid container to hold the same securely therein, said liquid container having a removable closure.

1,942,954
CAR TRUCK JOURNAL BOX
Adeniram J. Cook, Westerlo, N. Y.
Application August 22, 1932. Serial No. 629,830
2 Claims. (Cl. 308—189)

1. The combination with a rotatory axle having a groove adjacent to its end, and a fixed journal box having a removable end cover, of a ring formed of a plurality of sections located within said groove in the axle, and said ring being overlapped at its outer edge by and held in locking position by the cover when the latter is secured to the box.

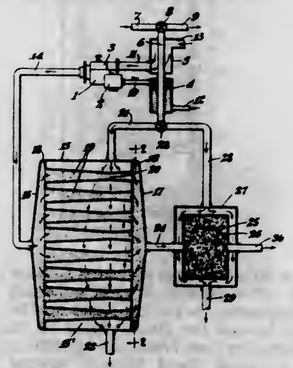


1,942,955
BREAD SLICING MACHINE
Harry E. Criner, Davenport, Iowa, assignor, by direct and mesne assignments, to The Micro Corporation, Bettendorf, Iowa, a corporation of Delaware
Application December 10, 1930
Serial No. 501,296
8 Claims. (Cl. 146—153)



1. A bread slicing machine comprising side frames suitably united, upper, lower and intermediate shaft bearings formed therein, a crank shaft shaft revolvably mounted in the lower shaft bearings, rocker-shafts mounted in the upper and intermediate shaft bearings, a pair of outer rocker-arms united to the lower rocker-shaft at the ends thereof, an outer crosshead united to the free ends of said rocker-arms and extending transversely of the slicing machine, a driving arm having one end united to the lower rocker-shaft, a connecting rod having its lower end mounted upon the crank shaft and its upper end pivotally connected to the free end of the driving arm, an inner crosshead extending transversely across the slicing machine having a connecting rod bearing formed integral therewith, a connecting rod having its upper end pivotally secured in said connecting rod bearings and its lower end revolvably mounted upon the crank shaft, said connecting rods being mounted upon and driven by a pair of opposed cranks formed integral with said crank shaft, a pair of outer rocker-arms pivotally mounted on the upper rocker-shaft near the ends thereof, an outer crosshead extending transversely of the machine and having its ends pivotally united to the free ends of the last mentioned rocker-arms, a pair of inner rocker-arms each having one end pivotally mounted upon the upper rocker-shaft adjacent the outer rocker arms, an inner crosshead extending transversely of the machine and pivotally connected to the free ends of said inner rocker-arms, lugs formed upon the opposed faces of the crossheads and arranged in alternate pairs, each lug upon the lower inner crosshead and its corresponding lug upon the upper inner crosshead forming one pair and each lug upon the lower outer crosshead and its corresponding lug upon the upper outer crosshead forming a pair and said pairs being alternately spaced along the crossheads, a cutting blade pivotally mounted in each pair of lugs, said lugs and blades being of such length and so proportioned that they extend in a straight line transversely of the machine when standing at the middle point of their travel, links connecting the upper and lower outer crossheads and pivotally united to each of same, links connecting the upper and lower inner crossheads and pivotally united thereto, and means for driving the crankshaft.

1,942,956
APPARATUS FOR MAKING EXPLOSIVE GASEOUS MIXTURES
Jack Arnoul de Grey, Paris, France
Application July 7, 1930, Serial No. 466,027, and in France July 10, 1929
2 Claims. (Cl. 48—180)



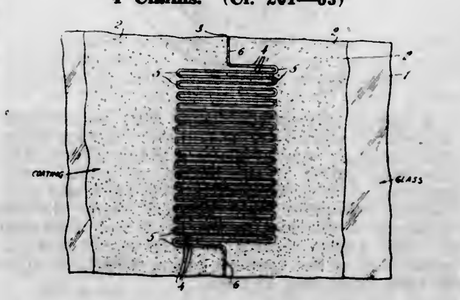
1. An apparatus of the character described, comprising a plurality of tubes, means for conducting a gaseous mixture through said tubes, a catalytic chamber, and means for conducting the gases from said tubes through said chamber.

1,942,957
LIQUID CONTAINER
Arthur Diesbourg, Kitchener, Ontario, Canada
Application January 23, 1933. Serial No. 653,123
2 Claims. (Cl. 225—3)

1. An air-tight liquid container for containing and dispensing liquid under pressure comprising a container body and end closures, a dispensing and discharge faucet fixedly secured directly to one of the end closures and consisting of a body portion secured to the said end closure by means of screw threads and having a vertical liquid passageway therein and a hollow extension therefrom extending into the container substantially to the other end closure and a transverse opening therein, a faucet valve forming a spout and handle consisting of a hollow member closed at one end and rotatably positioned in said transverse opening and provided with an opening intermediate its ends, said opening in the faucet valve being so positioned that when the same is partially rotated the said opening will align with said vertical liquid passageway and dispense liquid through said extension and said vertical passageway and through the faucet valve and spout.



1,942,958
LIGHT-SENSITIVE CELL
Arthur W. Carpenter, New York, N. Y., assignor to United Research Corporation, New York, N. Y., a corporation of Delaware
Application September 10, 1930
Serial No. 480,961
4 Claims. (Cl. 201—63)



1. In a light-sensitive cell a plurality of interdigitated electrodes having a separating trace therebetween comprising substantially parallel straight portions and arcuate connecting portions.

1,942,959
VALVE FOR INFLATABLE ARTICLES
Frank Fenton, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 17, 1931. Serial No. 569,492
4 Claims. (Cl. 273—65)

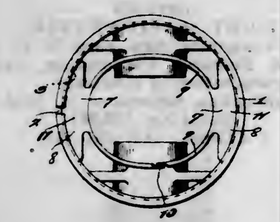
1. A valve for an inflatable article, said valve comprising a reinforced base member formed with an aperture and a bulbous plug spaced outwardly therefrom when the article is uninflated and connected to said base around said aperture by an elastic tubular neck of bowed form having a side opening, said base being sufficiently elastic around said aperture to permit said plug and telescoped neck to be passed through said

aperture and there to be retained in telescoped engagement and the juncture of the base and



neck being of reduced wall thickness to facilitate the telescopic distortion.

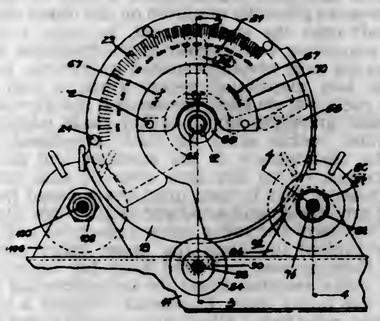
1,942,960
PISTON EXPANDER
William E. Frank, Willow Grove, Pa., assignor, by mesne assignments, to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application February 15, 1932. Serial No. 593,161
1 Claim. (Cl. 309—12)



A piston having the usual skirt section and wrist pin bosses therein, said skirt section being longitudinally slotted along a plane intersecting the axial plane of the bosses, an annular expanding element fixed within the skirt and contacting therewith, said element being divided adjacent to the slot in the skirt and thickened at right angles thereto so as to reduce the expansibility of the element in the thickened zones of said expanding element.

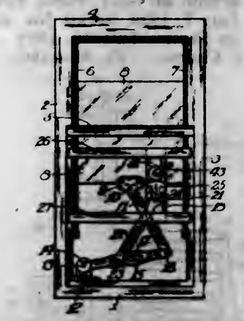
1,942,961
ELECTRICAL APPARATUS
John Q. Gaubert, Dayton, Ohio, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application November 26, 1930
Serial No. 498,240
8 Claims. (Cl. 116—124.4)

1. A control mechanism for a radio instrument said instrument being provided with an escutcheon plate having a pair of windows, comprising in combination, a shaft, a dial having indicia, said dial being fixedly attached to said shaft for indicating the setting thereof, said indicia being aligned wth one of said windows, a second shaft eccentric to the first shaft, a plate carrying a second dial having indicia for indicating the adjustment of said second shaft, said second dial being rotatably mounted on said first shaft and in front of said first named dial and the indicia on said second dial being aligned with the other window in said escutcheon plate so that both of said dials are visibly indicated in relatively close association through said windows and flex-



ible means carried by said second named shaft and in front of the plane of said first named dial for frictionally engaging said plate to cause rotation thereof upon rotation of said second shaft.

1,942,962
AUTOMATIC LOCK FOR WINDOW-OPERATORS
Howard C. Hart, Russiaville, Ind.; Effe Hart administratrix of said Howard C. Hart, deceased
Application February 7, 1931. Serial No. 514,137
2 Claims. (Cl. 192—8)

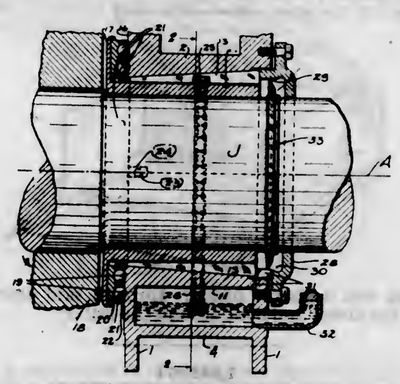


1. In a window-operator mechanism, the combination of a rotary operating shaft having a radial abutment, a pinion loose on the shaft and having a lateral lug finger fixed on one side and guided thereby free from the abutment, the shaft having a crank fixed thereto spaced from the opposite side of the pinion normally to turn the pinion, and clutch means automatically controlled to operate by action of the lug finger relatively to the abutment upon initial turning of the pinion by abnormal movement thereof.

1,942,963
LOCOMOTIVE DRIVER BOX
James J. Hennessy, New York, N. Y.
Application October 11, 1928. Serial No. 311,850
13 Claims. (Cl. 308—42)

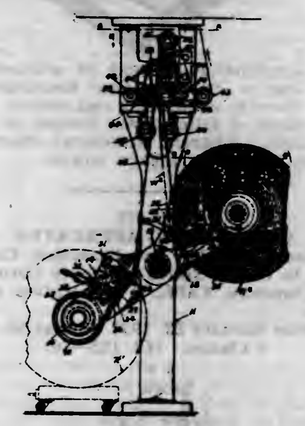
1. In a locomotive driver box structure, a split cylindrical collar for the journal provided with a radial flange for engaging the hub of a wheel journalled in said box, and an anti-friction bear-

ing device between said flange and the front face of the box, said device being split to provide for



application thereof to the bearing while it is assembled with a journal.

1,942,964
WEB TENSION CONTROLLING MECHANISM FOR USE WITH ROTARY PRINTING MACHINES
Albert J. Horton, White Plains, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York; Irving Trust Company, receiver
Original application April 5, 1928, Serial No. 267,705, now Patent No. 1,885,262, dated November 1, 1932. Divided and this application July 11, 1929. Serial No. 377,569
9 Claims. (Cl. 242—75)



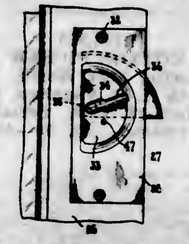
1. In a mechanism for feeding a web to a printing machine, a support adapted to hold two web rolls and arranged to move either roll from a loading position to a feeding position, and a web roll controlling mechanism including brakes for restraining the rotation of the rolls, a member movable in response to variation in the tension of the web, and an equalising connection between the said member and the brakes, whereby the pressure on the brakes is increased when the web slackens.

1,942,965
HAIR WAVING APPARATUS
Ralph M. Keele, San Francisco, Calif., assignor to United States Appliance Corporation, San Francisco, Calif., a corporation of California
Application February 6, 1933. Serial No. 655,493
3 Claims. (Cl. 132—36)



1. In hair waving apparatus, a protector adapted to clamp upon a strand of hair adjacent the base thereof, a pair of posts mounted upon the protector and positioned adjacent the ends thereof, each of said posts being provided with a rectilinear slot and a substantially L-shaped slot, and a pair of curlers having their end portions adapted to be accommodated within said slots.

1,942,966
WINDOW SASH DETENT
Le Roy Larson, Herdville, Nebr.
Application February 23, 1933. Serial No. 658,057
1 Claim. (Cl. 292—242)



A window sash detent comprising an inner flat plate and an outer plate having a central countersunk portion, a sector shaped cam having its outer periphery flanged at right angles to and eccentric with the axis of the cam and straddling said countersunk portion, said periphery having a partially smooth and a partially rugose portion, means carried by said cam for holding said plates in alignment and forming a housing, a coiled spring in said housing engaging the cam at one end and anchored to the countersunk portion at the other end for urging the cam outwardly, a lever lying within the plane of the countersunk portion, and a shaft secured to said lever, said shaft having mounted thereon, the cam, the spring and the plates.

1,942,967
PISTON PACKING RING
Charles A. Marien, St. Louis, Mo., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application July 21, 1933. Serial No. 681,407
4 Claims. (Cl. 309—28)



1. A piston packing comprising a split expansible cast iron piston ring having a conical work-

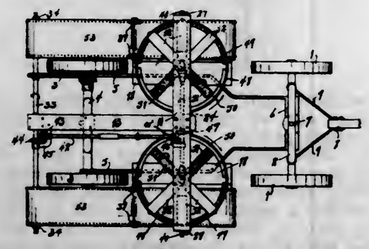
ing face inclining outwardly from the upper margin of the ring, and an expansible ring element of spring steel and substantially thinner than the piston ring disposed in contacting relation with the lower margin of the ring, said ring element being of less radial depth than the piston ring.

1,942,968
EXPANDER FOR PISTON RINGS
Melvin W. Marien, St. Louis, Mo., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application January 26, 1933. Serial No. 653,637
3 Claims. (Cl. 309—43)



1. An expander for piston rings comprising a ribbon of spring metal of substantially uniform width throughout its length formed in a polygonal shape, some of the sides of which have means to cause them to spring outwardly when external pressure is applied to the expander.

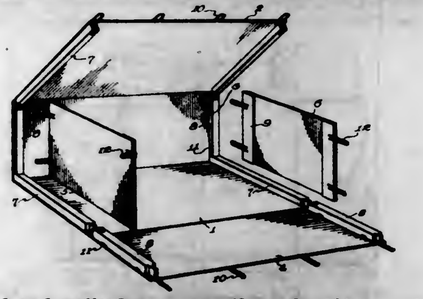
1,942,969
COTTON PICKER
William A. Martin, Fort Worth, Tex., assignor of one-half to H. E. Vaughan, Dallas, Tex.
Application July 18, 1932. Serial No. 623,198
3 Claims. (Cl. 56—44)



1. In a cotton picking machine having a frame provided with tractor wheels and axles therefor; a picker unit carried on each side of said frame and adapted to engage the cotton plant from each side of the row thereof, said picker unit consisting of a vertical shaft provided with spokes radiating therefrom, means for adjusting said units vertically and horizontally relative to said frame, cylindrical cards rotatably mounted on said spokes and adapted to engage the cotton plant and remove the lint therefrom, means for removing the lint from said cards, means for revolving said shaft and the spokes thereof, and means for rotating said cards on said spokes.

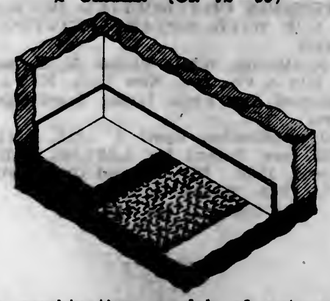
1,942,970
BOX CONSTRUCTION
John R. Miller, Brewton, Ala., assignor to T. R. Miller Mill Company, (Incorporated), Brewton, Ala., a corporation of Alabama
Application May 22, 1933. Serial No. 672,193
4 Claims. (Cl. 217—12)

1. A box construction of the class described having side walls with cleats extending along the edges of the said side walls, said cleats being transversely grooved on the face adjacent the side wall which the cleat reinforces, and end walls for the box carrying projecting metallic clips positioned to be bent at right angles to the plane of



said end walls for passage through said grooves in the cleats and bent around the latter.

1,942,971
CONCRETE CONSTRUCTION
Melvin L. Morse, Wellesley, Mass., assignor, by mesne assignments, to Edward H. Angier, Framingham, Mass., trustee
Application November 29, 1930
Serial No. 499,034
2 Claims. (Cl. 72—69)



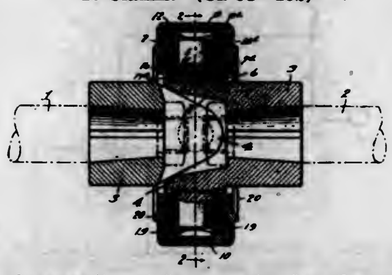
1. In combination, a slab of auto-solidified plastic and a waterproofing membrane embedded therein comprising an entire waterproofed sheet of felted fibers formed to provide a substantial inherent structural extensibility compensating for shrinkage strains.

1,942,972
HAIR WAVING APPARATUS
Tomlinson I. Messley, San Francisco, Calif., assignor to United States Appliance Corporation, San Francisco, Calif., a corporation of California
Application January 23, 1933. Serial No. 652,991
6 Claims. (Cl. 132—36)



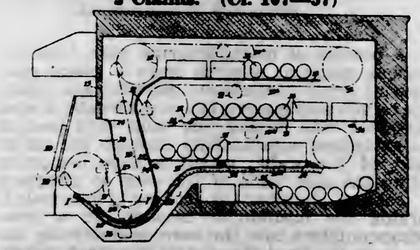
1. In hair waving apparatus of the spiral type, an elevated canopy, and a plurality of electrically heated rods carried by the canopy and upon which heat storage devices can be removably disposed.

1,942,973
FLEXIBLE CONNECTION
Frederick W. Peters, Cleveland, Ohio, assignor to The Al-Metal Universal Joint Company, Cleveland, Ohio, a corporation of Ohio
Application December 19, 1928
Serial No. 326,915
10 Claims. (Cl. 64—102)



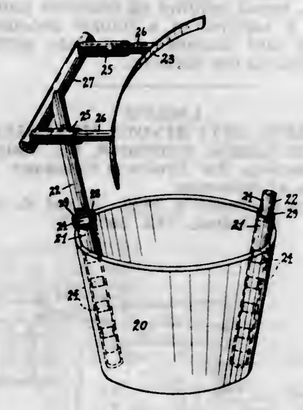
1. A connection of the character described comprising a driving and a driven member each having a yoke provided with trunnions projecting therefrom, with an annular seat surrounding the base of each trunnion, a connecting ring having bearing blocks each having a bore adapted to receive a trunnion and each having at the end thereof which faces the seat of the trunnion therein an annular recess surrounding such trunnion, compressible packing material in said annular recess, and a pair of frusto-conical spring washers interposed between each bearing block and the seat opposed thereto, one of said washers having its outer edge resting on the seat and the other having its outer edge engaging the bearing block outside the recess therein.

1,942,974
BAKING OVEN
John Edward Pointon and Warwick Henry Beanes, Westwood Works, Peterborough, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich., a corporation of New York
Application May 19, 1933. Serial No. 671,844, and in Great Britain April 14, 1932
2 Claims. (Cl. 107—57)



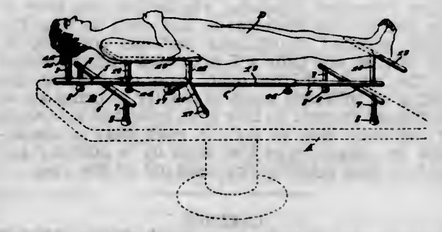
2. A baker's oven of the endless conveyor type wherein the bread is baked within a steam charged atmosphere, having a feed and delivery station at the same end of the oven, an outlet for steam, adjustable control means for said outlet located adjacent the station and operable to determine various heights of steam escape, a baffle plate separating the feeding and the return laps of the conveyor adjacent the station and extending below said control means, and baffles within the oven arranged for directing the flow of steam conformably with the direction of conveyor movement from the entrance of the dough to discharge, terminal guide wheels for said conveyor located forwardly of the adjustable control means to present the said feed and delivery station, the said baffle plate which separates the feeding and return laps being arranged to extend below the said station, the feeding lap being guided downwardly from said terminal wheels and rearwardly below the said baffle plate and thence upwardly into the steam charged portion of the oven.

1,942,975
PLANT POT AND SUPPORT
William Polgar, New York, N. Y.
Application January 18, 1933. Serial No. 652,354
2 Claims. (Cl. 47—47)



1. In a pot for growing plants, a plurality of substantially vertical pipes secured to the pot; an upwardly and downwardly adjustable rod in each of said vertical pipes; a cross member on each upwardly and downwardly adjustable rod; substantially horizontal transverse tubes secured to said cross member; adjustable horizontal elements in said transverse tubes, and a curved embracing member secured to said adjustable horizontal elements, its concave side being turned toward the growing plant.

1,942,976
BODY SUPPORT
William Robert Popkess, Sabetha, Kans.
Application June 19, 1933. Serial No. 676,568
2 Claims. (Cl. 27—23)



1. A support of the kind described comprising outer and intermediate frames telescopically interfitted with each other, means for fastening the frames adjustably with respect to each other, legs on said frames, rubber feet on the legs, a back rest carried by the intermediate frame, a head rest carried by one of the outer frames, and a leg rest carried by the other outer frame.

1,942,977

TREATMENT OF WOOD, FIBER BOARD, WOOD-PULP, WOOD-FIBER AND THE LIKE

Ernest Edward Munro Payne, Narborough, near Leicester, England

No Drawing. Application June 29, 1933, Serial No. 678,311, and in Great Britain September 22, 1931

6 Claims. (Cl. 91—68)

2. A process for fire-proofing cellulosic materials containing ligno-cellulose which comprises treating the material successively and in any order with a solution of a soluble acid phosphate of a metal yielding an insoluble phosphate and with a solution of a soluble phosphate to precipitate said insoluble phosphate within the cell structure of the material.

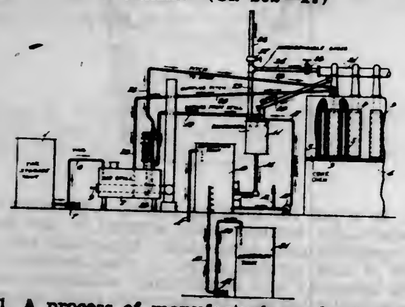
1,942,978

COKING BITUMINOUS MATERIAL

Edmund O. Rhodes, Pittsburgh, Pa., assignor to The American Tar Products Company, a corporation of Delaware

Application February 9, 1929. Serial No. 338,644

3 Claims. (Cl. 202—17)



1. A process of manufacturing coke from bituminous material selected from a group consisting of liquid bituminous material and liquefiable bituminous material in a by-product oven having side walls with heating flues extending substantially through the entire height of the walls, which process comprises heating the side walls of the oven to maintain the coking chamber at coking temperature, spraying into the coking chamber said bituminous material with a gaseous medium substantially free from uncombined oxygen so as to produce a liquid spray which on passing downwardly through the oven is substantially freed of foaming constituents that cause excessive foaming, regulating the feed of the bituminous material in the oven so that the liquid sprayed bituminous material collected in the oven at any time will not cause undue chilling of the walls of the oven, and continuing the coking of collected residual matter to bring about shrinkage thereof to free coke from the side walls of the oven and to form a coke that is removable en masse from the oven by a pushing operation, and pushing the coke out of the oven.

1,942,979

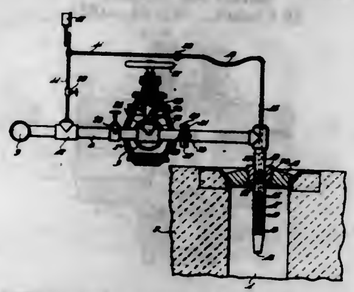
CHARGING APPARATUS FOR COKE OVENS

Edmund O. Rhodes, Ernest W. Volkmann, and James C. Fitzpatrick, Pittsburgh, Pa., assignors to American Tar Products Co., Inc., a corporation of Delaware

Application October 17, 1930. Serial No. 489,314

12 Claims. (Cl. 202—150)

11. Apparatus for charging a coke oven with liquid carbonizable material, the said coke oven having a charging hole, which apparatus comprises a vessel for hot, liquid, carbonizable material, means for maintaining said material in hot, liquid, flowable condition, a conduit leading from the vessel to a point adjacent said charging hole and back to said vessel thereby forming a circuitous passage through which liquid carbonizable material is adapted to flow continuously, means for maintaining the flow of said material in said conduit, and a pipe connected to the said conduit for passage of said material from the conduit and leading to the charging hole.



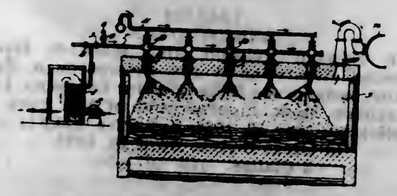
1,942,980

PROCESS OF COKING LIQUID OR LIQUEFIABLE BITUMINOUS MATERIAL

Edmund O. Rhodes, Pittsburgh, Pa., assignor to American Tar Products Co., Inc., a corporation of Delaware

Application December 6, 1930. Serial No. 500,540

4 Claims. (Cl. 202—32)



1. A process of manufacturing coke from bituminous material selected from a group consisting of liquid bituminous material and liquefiable bituminous material in an externally heated by-product oven having side walls with heating flues extending substantially through the entire height of the walls, which process comprises heating the side walls of the oven to maintain the coking chamber at coking temperature, charging the bituminous material in a free-flowing condition into the oven, maintaining the oven above the level of material deposited therein substantially completely filled with vapors from the said bituminous material and at the same time preventing excessive foaming, the said charging being conducted at a rate that effects the emission of vapors from the oven at a greater rate than that at which vapors evolved are superheated and decomposed to a substantial extent during their passage through the oven, thereby reducing decomposition and formation of lampblack; withdrawing vapors from the oven; collecting the resulting residual material in the oven while simultaneously coking it, continuing the coking of the accumulated material to devolatilize and shrink the coked material, and removing coke from the oven by a pushing operation.

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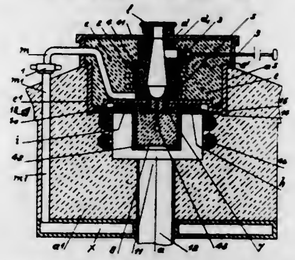
1,942,981

ELECTRIC FURNACE

Rudolf Schmitz, Herne, Germany

Application December 14, 1929, Serial No. 414,093, and in Germany December 16, 1928

7 Claims. (Cl. 22—69)



1. An electric furnace comprising a body having a lower chamber and an upper chamber of greater width than the lower chamber and into which the latter opens, a flask arranged in the lower chamber and removable therefrom, an insert member removably mounted in the upper chamber said flask being mounted on the bottom of said insert member, and a melting furnace in said insert member, and arranged to discharge molten material into the flask.

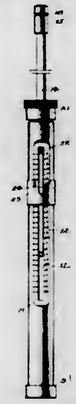
1,942,982

TESTING DEVICE

Rudolf Schneider, Washington, D. C.

Application November 11, 1929 Serial No. 406,463

5 Claims. (Cl. 265—18)



4. A device for testing fruits and vegetables comprising a cylindrical casing closed at one end and having a slot in its wall; a removable closure for the other end of said casing; a tension spring within said casing, said spring having one end secured to said closure; a supplemental perforated closure for said casing, said supplemental closure enclosing said removable closure; a plunger projecting through said closures and having its inner end secured to the free end of said spring; a head on said plunger for penetrating an object to be tested; means on said head for gauging the depth of penetration of said head into the object; a sleeve surrounding said spring within said casing and operatively associated with the inner end of said plunger; and guiding means carried by said sleeve and extending through said slot, the position of said guiding means indicating the amount of force applied to the device to secure penetration of the head up to the gauging means on said head.

1,942,983

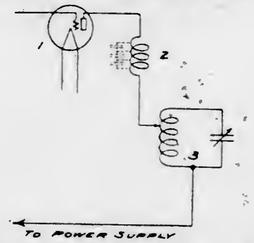
ELECTRON TUBE CIRCUITS

William L. Seibert, Fort Monmouth, N. J.

Application July 10, 1930. Serial No. 467,028

9 Claims. (Cl. 179—171)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An electron tube amplifier circuit, including an electron tube having a plate circuit; a tuned load circuit operatively associated with said plate circuit; and a choke coil in series with said circuits, the reactances of the choke coil and tuned load circuit being substantially equal and opposite in phase at the operating frequency.

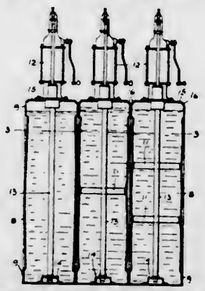
1,942,984

SHEET METAL CONTAINER

Charles Spaeth, Cleveland, Ohio

Application November 7, 1931. Serial No. 573,610

1 Claim. (Cl. 220—72)



A rectangular sheet metal container of greater depth than width, comprising side walls having a recessed panel extending substantially over the entire area of said walls, a cross-brace member welded at its opposite ends to opposite side walls of said container within the area of their panels and a top wall having a raised panel extended substantially over the entire area of said top wall and encircled by narrow downwardly and outwardly inclined border planes merging into said side walls.

1,942,985

MEAT-SLITTING MACHINE

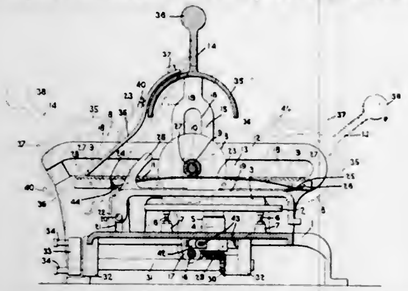
Joseph P. Spang, Quincy, Mass.

Application February 10, 1933. Serial No. 656,051

3 Claims. (Cl. 17—27)

1. In a meat-slitting machine, the combination with a meat-supporting turntable, of a gang of rotary slitting knives, a swinging knife-actuating member to move the knives across the turntable

thereby to form the slits in the meat thereon, a rocking member operatively connected to the turntable and means carried by the knife-actuat-



ing member to rock said rocking member alternately in opposite directions during the final portion of successive movements of the knife-actuating member in the same direction.

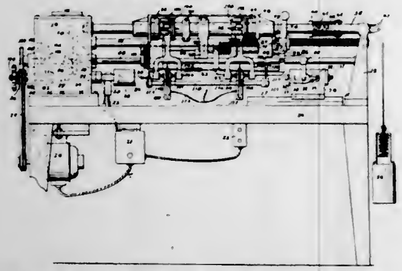
1,942,986

RUBBER RING CUTTING MACHINE

Stuart B. St. John, Bridgeport, Conn., assignor to The Black Rock Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut

Application June 27, 1932. Serial No. 619,388

23 Claims. (Cl. 164—69)



23. A jar ring cutting machine comprising a frame including guide rods, a mandrel for supporting a rubber tube to be cut, a feed screw, a carriage mounted on the rods, a nut carried by the carriage to engage the feed screw, a rocker shaft mounted in the carriage, arms carried on said shaft to engage and disengage the nut and feed screw, a handle on said shaft for operating the same and nut, a spring for normally holding the nut out of engagement from the feed screw, means for engaging the handle to hold the nut in engagement with the feed screw, means for automatically releasing the pawl and nut at a predetermined time to disengage the carriage, a cutter arm mounted on the carriage, cam means for operating the cutter arm, and means connecting said automatic means for disengaging the cam and arm.

1,942,987

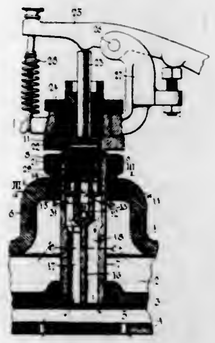
VALVE FOR CLOTHES STEAMING AND PRESSING APPARATUS

Harry G. Sutton, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware

Application March 25, 1932. Serial No. 601,261

10 Claims. (Cl. 251—155)

5. In combination with a valve body the outer portion whereof is hollow; a transverse partition extending across the opposite portion of the body by which longitudinally extending exhaust passages are formed, said passages being in communication with the hollow outer portion of the valve body; an outwardly extending valve seat at the top of the partition, the upper portion of such partition immediately below the seat having longitudinally and oppositely disposed guiding faces formed thereon, said faces being spaced apart a distance greater than the outer diameter



of the valve seat, there likewise being a channel extending through the body and partition to the valve seat; a valve disk carrier loosely mounted in the hollow portion of the valve body; an annular skirt extending from said carrier and spaced from the wall of said hollow body portion, the inner face of said skirt contacting said guiding faces aforesaid; a valve disk mounted in the carrier; a stem extending outwardly from the carrier; and means for actuating the stem.

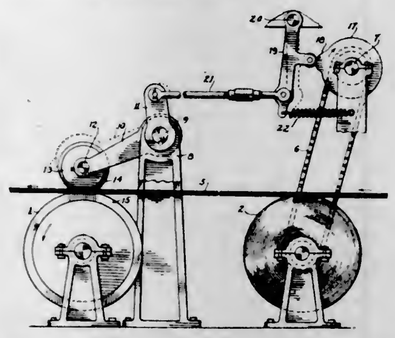
1,942,988

SHEET EDGE CRIMPING APPARATUS

Arthur K. Taylor, Baltimore, Md., assignor to The United States Printing and Lithograph Co., Baltimore, Md., a corporation of Ohio

Application July 10, 1930. Serial No. 467,106

14 Claims. (Cl. 93—1)



1. Sheet edge crimping apparatus comprising a sheet support having alternate elevations and depressions on its sheet supporting face, the latter being substantially planar, crimping means co-acting with the elevations and depressions on said support, and means for periodically moving said crimping means into inter-engaging relation with said elevations and depressions and upon an intervening sheet of paper.

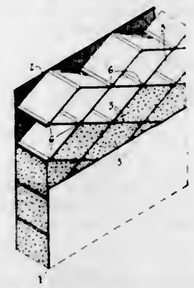
1,942,989

HEAT INSULATING PRODUCT

George Miller Thomson, Caledonia, Ontario, Canada

Application March 6, 1931. Serial No. 520,627

3 Claims. (Cl. 154—44)



1. A heat insulating product comprising a layer of cementitious material of uniform thickness, reinforcement of interconnected, zigzag paper strips embedded in said layer forming angular open-ended cells filled with said cementitious material, and paper covering sheets adhesively attached to opposite faces of said layer and the edges of said paper strips and closing said cells.

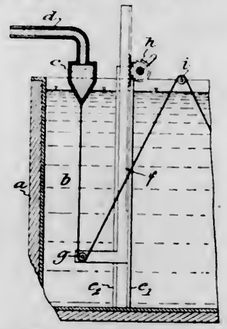
1,942,990

DEVICE FOR SPINNING VISCOSE SOLUTIONS WHILE APPLYING LONG PRECIPITATING DISTANCES

Julius Voss, Wiesbaden-Biebrich, Germany, assignor, by mesne assignments, to The Visking Corporation, Chicago, Ill., a corporation of Virginia

Application October 5, 1929, Serial No. 397,625, and in Germany October 13, 1928

2 Claims. (Cl. 18—15)



1. In an apparatus for spinning broad articles from regenerated cellulose by entering a viscose solution through a nozzle into a precipitating bath, a delivery device comprising two rollers, the said device being adjustably mounted inside the precipitating bath under the spinning nozzle and displaceable in the direction of spinning for altering the distance between the nozzle and the delivery device.

1,942,991

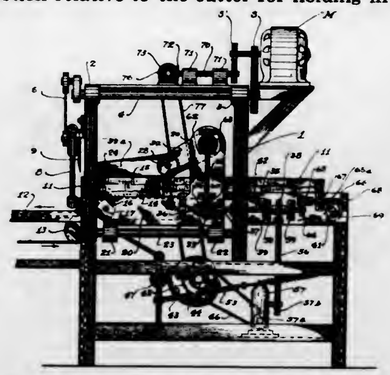
SLICING MACHINE

Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application October 21, 1932. Serial No. 638,945

3 Claims. (Cl. 146—155)

1. In a bacon slicing machine, a main frame, a reciprocating cutter carrying mechanism mounted so that the cutter moves in a transversely extending cutting plane, means for feeding the bacon slabs along a longitudinally extending path in respect to the cutter, common operating means carried by the frame, means for continuously reciprocating the cutter from and by said common operating means, said feeding means comprising a longitudinally movable frame slidably supported on the main frame, cam mechanism carried by the main frame, means for continuously operating said cam mechanism and by said common operating means, means under the control of said cam mechanism for successively positioning said longitudinally movable frame, during one period in a forward direction relative to the cutter according to a certain number of reciprocative movements of the cutter and during the next period in a reverse direction relative to the cutter for holding in re-



tracted position in respect to the cutter the movable frame and bacon slab thereupon for a certain number of reciprocative movements of the cutter, feeding means carried by but movable relative to said longitudinally movable frame and cooperating by engaging slabs of bacon in the controlling of the feeding and positioning of the bacon in respect to the cutter, and means operated by said common operating means for imparting movement to said feeding means on and in respect to said longitudinally movable frame, said slicing machine having at the delivery end thereof a continuously moving receiving conveyor upon which the slices severed by the slicing machine are delivered to the endless conveyor in a manner whereby spaced groups are formed with the slices in each group arranged in a relatively uniform manner in respect to each other.

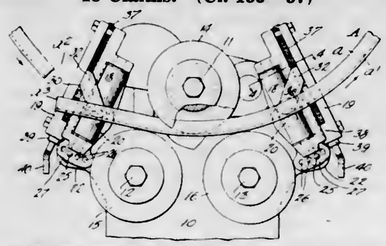
1,942,992

PROCESS AND APPARATUS FOR BENDING METAL BARS

Arthur T. Yates, Buffalo, N. Y., assignor to Buffalo Forge Company, Buffalo, N. Y.

Application April 10, 1929. Serial No. 353,955

18 Claims. (Cl. 153—57)



1. The process for bending a metal bar having a flange extending parallel with the axis of in-

tended curvature and another flange extending transversely thereof and inwardly towards said axis, which includes subjecting a bar to bending pressure in a set of bending rolls to bend the free edge of said first flange of said bar to a curvature of less radius than that ultimately required, and then subjecting said flange of said bar to further pressure to stretch the same to the required curvature.

5. Apparatus for bending a flanged metal bar having a flange extending parallel with the axis of intended curvature and another flange extending transversely thereof, said apparatus including a set of bending rolls, and a stationary part disposed in the path of the bar as it leaves said rolls and which engages and stretches said first flange thereof in an outward direction relative to said axis of curvature and causes said bar to assume the required curvature.

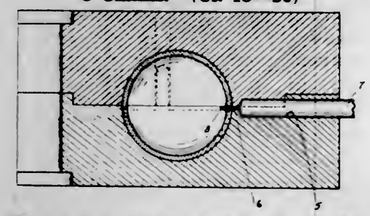
1,942,993

METHOD OF PRODUCING ATHLETIC BALLS

Paul M. Aultman and Archibald C. Bowers, Greensburg, Pa., assignors to Pennsylvania Rubber Company, a corporation of Pennsylvania

Application June 3, 1932. Serial No. 615,146

3 Claims. (Cl. 18—56)



1. The method herein described of making an athletic ball which consists in forming complementary fractional shells of plastic rubber, destroying the plasticity of the material by vulcanization and imparting resilience thereto, facing the edges of the shells with plastic union-forming vulcanizable material, assembling the shells edge to edge within a vulcanizing mold with an inflation needle extending across the seam formed by the meeting and plastic-faced edges of two such shells, and with the resilient shell substance locally compressed upon the needle, inflating through such needle the assembled and mold-contained blank, withdrawing the needle, while permitting the resilience of the compressed shell material to maintain the chamber within the blank sealed against pneumatic leakage, and subjecting the blank within the mold to heat and pressure to vulcanize the union-forming material.

1,942,994

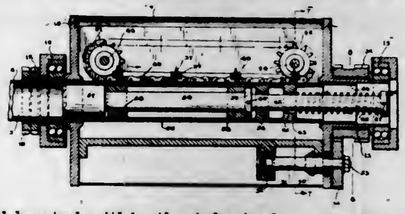
CAN CUTTING DEVICE

Joseph Bech, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application July 23, 1932. Serial No. 624,192

17 Claims. (Cl. 164—61)

17. An automatic paper can cutting device for continuous paper tube forming machines including a rotary housing having an opening to receive a paper tube from a tube forming machine, cutting mechanism mounted within the housing and arranged to engage the tube exteriorly thereof for cutting the same, a shaft provided with means for connecting it with the winding mandrel of the paper forming machine, a relatively stationary mandrel mounted on the shaft and arranged within the said tube for supporting the same during the operation of the cutting mechanism, and a slidable mandrel also mounted on the said shaft



and located within the tube to form a solid cutting surface for the cutting mechanism, said slidable mandrel being movable with the cutting mechanism and the tube.

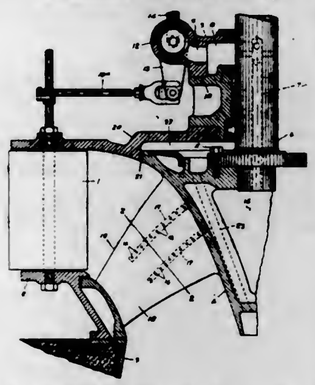
1,942,995

HYDRAULIC TURBINE

George A. Biggs, Springfield, Ohio, assignor to The James Leffel & Company, Springfield, Ohio, a corporation of Ohio

Application June 21, 1932. Serial No. 618,494

8 Claims. (Cl. 253—117)



1. In a hydraulic turbine, a runner having a shaft, hub and vanes having ports on the inferior side thereof, means of injecting fluid therethrough in the direction of the flow of fluid thereover, means of directing the major portion of fluid over said vanes, including gates, and means interconnected with said gates for regulating the amount of fluid injected through said ports.

1,942,996

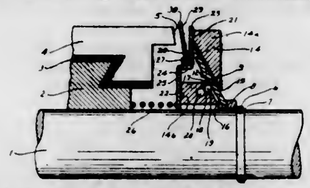
SHORT CIRCUITER FOR REPULSION INDUCTION MOTORS

Alwin Borchers, Dayton, Ohio, assignor to The Brown-Brockmeyer Company, Dayton, Ohio, a corporation of Ohio

Application May 14, 1930. Serial No. 452,164

34 Claims. (Cl. 172—279)

22. In a short circuiter, a commutator, short circuiting means, yielding means normally maintaining the short circuiting means in an inoperative position, a cone shaped stationary guide means, weights slidable on said guide means adapted to move the short circuiting means into short circuiting position, and means on the stationary guide means to temporarily resist the movement of the weights in order to provide a snap action for sudden engagement and disengagement of the short circuiting means, said weights contacting said short circuiting means



adjacent the upper and lower extremities of said short circuiting means.

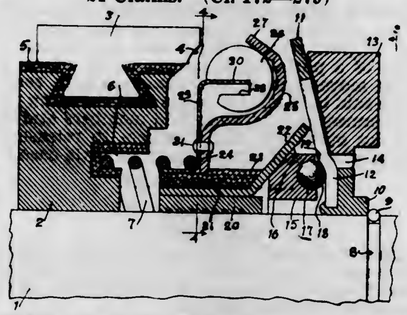
1,942,997

SHORT CIRCUITER FOR ELECTRIC MOTORS

Alwin Borchers, Dayton, Ohio, assignor to The Brown-Brockmeyer Company, Dayton, Ohio, a corporation of Ohio

Application March 19, 1931. Serial No. 523,667

21 Claims. (Cl. 172—279)



1. In a short circuiter, a commutator, a plurality of individual contact making segments, said segments being freely movable and unconnected with each other, a carriage therefor, and centrifugally operated weights adapted to move said carriage and segments axially of the shaft and into contact making position, yielding means continually resisting said movements, and means temporarily restraining the movements of the weights.
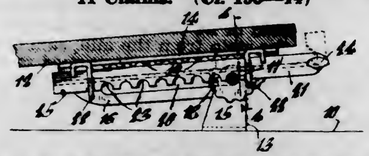
1,942,998

MOUNTING FOR SLIDING VEHICLE SEATS

Montague P. Browne, Buffalo, N. Y.

Application March 5, 1932. Serial No. 597,002

11 Claims. (Cl. 155—14)



5. A mounting for sliding automobile seats, comprising bracket members adapted for attachment to the seat and floor of the vehicle, respectively, one set of bracket members having gear racks thereon disposed in the direction of sliding of the seat, a shaft journaled in the other set of bracket members and having toothed wheels thereon engageable with the racks of the companion members, and a latch bar having notches therein applied to one of said bracket members for releasable engagement with said shaft to hold the toothed wheels and racks against relative movement, whereby the seat is held in a desired set position.

CARNEGIE LIBRARY OF ATLANTA

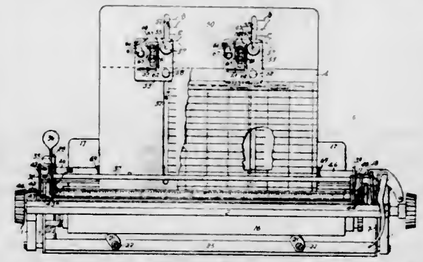
1,942,999

TYPEWRITING MACHINE

Cloyd E. Burns, Buffalo, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a corporation of New York

Application June 16, 1930. Serial No. 461,367

12 Claims. (Cl. 197—127)



1. The combination of a cylindrical platen, a paper table fixed at the front of the platen, work sheet or card impaling pins carried on said paper table, and of a character to receive a plurality of work sheets or cards, means for affording an adjustment of said impaling pins towards and from the platen to any one of a plurality of line space positions corresponding to the months or weeks of a year and on which pins may be impaled the upper ends of a plurality of work sheets or cards to be held in place thereby while the work sheets or cards are being written, and a paper apron arranged beneath the platen and maintained spaced apart therefrom to receive the lower end portions of said plurality of work sheets or cards introduced downwardly and rearwardly from the front of the platen, the relation of the said paper table and apron being such that a thick pack of work sheets or cards may be maintained in a bent condition in conformity with the surface of the platen at and near the printing line to receive the impress of the types.

1,943,000

METHOD OF SIZING ARTIFICIAL FIBERS

Carroll Fred Chandler, Buffalo, N. Y., assignor, by mesne assignments, to Du Pont Rayon Company, New York, N. Y., a corporation of Delaware

No Drawing. Application August 17, 1928

Serial No. 300,374

14 Claims. (Cl. 91—68)

1. A method of sizing artificial fibers, threads or filaments formed of a cellulose derivative of the class consisting of organic acid esters and ethers for the purpose of imparting thereto the cohesion and other characteristics desirable in the weaving thereof which comprises subjecting said fibers, threads or filaments to the combined action of a swelling agent and a sizing material, the swelling agent serving to modify the material under treatment to permit satisfactory application and adhesion of the size thereto, and drying the treated material.

1,943,001

ELECTRICAL OUTLET

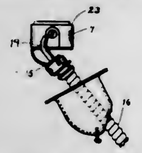
Martin M. Clayton, Baden, Pa., assignor to National Electric Products Corporation, a corporation of Delaware

Application October 9, 1930. Serial No. 487,527

3 Claims. (Cl. 247—15)

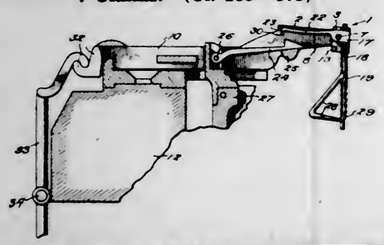
1. An electrical outlet box having a forward wall portion with a forwardly facing opening therein and a rearward wall portion framing an

opening inclined to the plane of the forward opening, in combination with an electrical receptacle, a cable connector, and a supporting bar securing the receptacle and cable connector to each other, said supporting bar shaped and at-



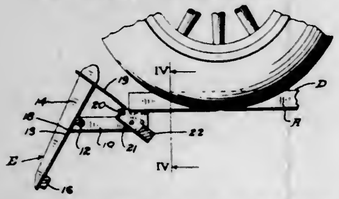
tached to said receptacle and said cable connector to space the receptacle and cable connector to lie at the forward and rearward outlet box openings respectively with the axes of said members inclined to each other.

1,943,002
AUTOMATIC FORK FOR LOOMS
William F. Clayton, Huntsville, Ala., assignor of one-third to William E. James, Cullman, Ala., and one-third to Nephanus E. James, Birmingham, Ala.
Application October 31, 1932. Serial No. 640,542
7 Claims. (Cl. 139—378)



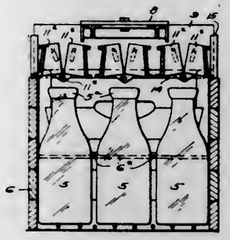
1. In a loom, a fork slide reciprocable thereon, a fork pivoted to one end of said slide and having tines depending therefrom, one of said tines being shorter than and swinging independently of the other tine, and means connected to the shorter tine for normally holding it further advanced than the other tine toward the grid of the loom.

1,943,003
CHOCK FOR VEHICLE ELEVATORS
John D. Cochin, San Francisco, Calif.
Application November 16, 1931
Serial No. 575,230
4 Claims. (Cl. 254—89)



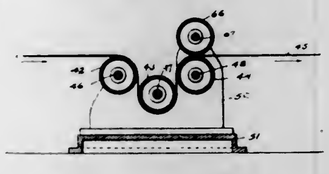
4. In combination with a trackway of the character described, a chock pivoted for movement to and from a chocking position, a runway pivoted for movement to and from a runway position, a portion of said runway underlying a portion of said chock whereby movement of the runway from a runway position will cause it to engage and move said chock to a chocking position.

1,943,004
BOTTLE PICK-UP AND HANDLING MECHANISM
William R. Coppage, Livingstone Heights, Va.
Application January 3, 1933. Serial No. 649,995
10 Claims. (Cl. 294—87)



1. In a bottle pick-up mechanism, the combination with a pair of bottle neck engaging members adapted to slide down over and engage the necks of a plurality of bottles under downward bodily movement of said members with respect to the said bottles, of a bottle case engaging part, and connections between said members and said part for operating said members to release the bottles when said part engages a bottle case.

1,943,005
STRIP MILL
William C. Coryell, Youngstown, Ohio, assignor, by mesne assignments, to United Engineering and Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 26, 1928. Serial No. 280,681
18 Claims. (Cl. 80—4)

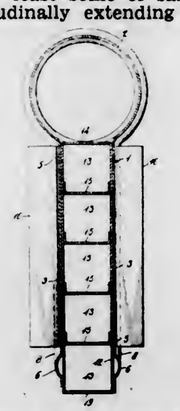


1. A machine for pulling metal strip from a rolling mill comprising at least three positively driven drums for frictionally engaging the strip at different points in its travel and cumulatively acting to pull the strip from the mill, said drums having parallel axes and being positioned so as to wrap the strip over a portion of the periphery of each of said drums, and independently controlled driving means for severally driving said drums.

1,943,006
VAPORIZER FOR REFRIGERATORS
Allen R. Cosgrove, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a corporation of Delaware
Application May 3, 1930. Serial No. 449,650
7 Claims. (Cl. 62—95)

2. An expansion means for automatic refrigeration, comprising a tank for receiving refrigerant and discharging vapors, said tank having walls depending therefrom, each of said walls having a series of corrugations formed therein and in communication with said tank, the convex

portions of at least some of said corrugations having longitudinally extending radiating fins



attached thereto to increase the radiating surface thereof.

1,943,007
VAPORIZER FOR REFRIGERATORS
Allen R. Cosgrove, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a corporation of Delaware
Application May 3, 1930. Serial No. 449,651
4 Claims. (Cl. 62—95)

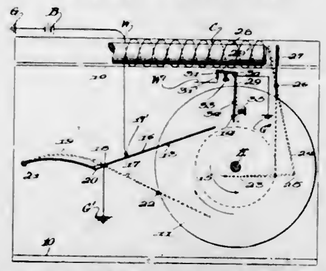


3. A vaporizing element for refrigerators comprising a pair of stamped complemental sections, said sections providing a refrigerant tank of tubular formation and truly vertically depending sheet metal stampings maintained in contacting relationship with each other, said stampings being corrugated to provide passageways communicating with the tank, and means surrounding the refrigerant tank to reinforce the same.

1,943,008
TREATMENT OF CELLULOSE DERIVATIVES
George Holland Ellis and Ralph James Mann, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 14, 1927, Serial No. 205,836, and in Great Britain April 14, 1927
8 Claims. (Cl. 8—5)

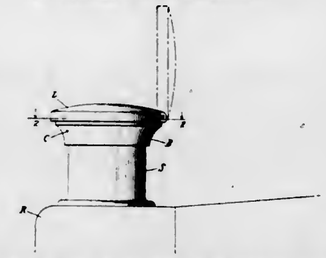
3. Process for obtaining full prints upon materials comprising organic substitution derivatives of cellulose, comprising printing the same with aqueous preparations containing in undispersed form relatively water-insoluble unreduced anthraquinone vat dyes having affinity for the goods, and fixing the coloring compounds by steaming.

1,943,009
RECIPROCATING MOTOR
William C. Erwin, Winthrop, Mass.
Application November 19, 1930
Serial No. 496,738
6 Claims. (Cl. 172—126)



5. A machine of the class described, comprising a movable device, a double snap means for moving said device in either of two opposite directions upon initial movement in such direction, an electro-magnet for imparting the necessary initial movement in one direction, means for automatically imparting the necessary initial movement in the opposite direction after the electro-magnet is deenergized, and means for deenergizing the electro-magnet after it has imparted an initial movement to the movable element.

1,943,010
CLOSURE FOR TANKS, RADIATORS, AND THE LIKE
Lester K. Franklin, Chicago, Ill.
Application December 9, 1932. Serial No. 646,527
6 Claims. (Cl. 220—24)

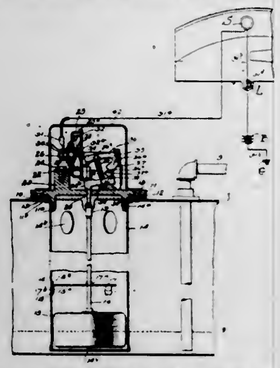


1. A closure for tanks and the like comprising a base, said base having its upper face provided with a seat and a locking lug at its edge, a hinge ring, cooperating means carried by the ring and base for swivelly positioning the ring on the seat, stop means for limiting the swivelling movement of the ring, a cap hingedly connected to the ring, and means carried by the cap for engagement with the lug of the base to lock the cap thereto when the ring is moved to one of its extreme positions against the stop.

1,943,011
FLOAT OPERATED SWITCH
James B. Fryar, Dayton, Ohio
Application March 9, 1933. Serial No. 660,183
7 Claims. (Cl. 200—84)

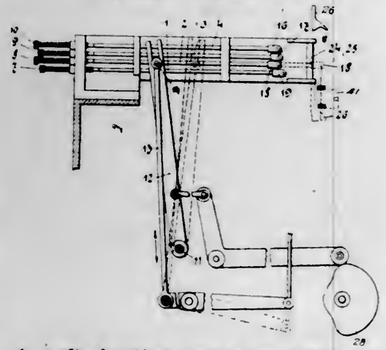
1. In a low level indicator or the like for fluid tanks including an electric signal and circuit therefor, a base member, a closed casing carried by said base member and having opposed walls, one of said walls being flexible, cooperating contacts within said casing and carried by said walls,

said contacts being in and adapted to make and break said circuit, a lever secured to said flexible wall, a control lever for said aforementioned lever and operatively connected thereto, and having a latch engaging portion, a latch member adapted to engage said latch engaging portion of said second lever, a common support for said second mentioned lever and latch member, yielding means engaging said second mentioned lever and latch and tending to actuate said latch against



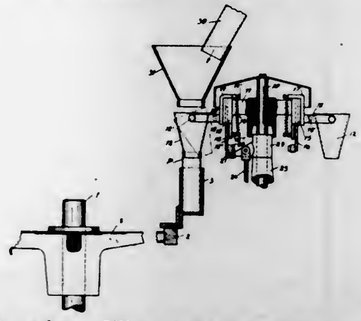
said lever and to actuate said lever to effect engagement of said contacts, float-operated means operable in one direction to actuate said second mentioned lever to separate said contacts and effect engagement of said latch with said latch-engaging portion of said second mentioned lever, and said float operated means having a latch tripping portion adapted to engage and release said latch when moved in the opposite direction whereby, through said yielding means and levers, to effect engagement of said contacts.

1,943,012
WEFT-SHOOT-CHANGING DEVICE FOR GRIPPER LOOMS
Johann Gabler, Ettlingen, Germany
Application October 24, 1930, Serial No. 491,053, and in Germany October 28, 1929
6 Claims. (Cl. 139—122)



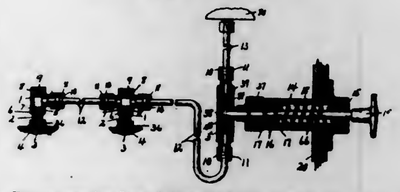
1. A weft shooting device for gripper looms, comprising in combinaton with stationary weft pins, movable thread guides one for each weft arranged the one above the other and each one movable independently of the others, means for selectively controlling the actuating of said thread guides, a gripper, a feeding device adapted to convey the wefts from the thread guides to said grippers.

1,943,013
FILLING DEVICE FOR PACKING MACHINES
Paul Gangler, Esslingen, Germany, assignor to the firm Fr. Hesser, Maschinfabrik-Aktiengesellschaft, Stuttgart-Cannstatt, Germany
Application August 30, 1932, Serial No. 631,021, and in Germany August 26, 1931
6 Claims. (Cl. 226—96)



5. A package filling device comprising means for charging the packages and a rotatable conveyor device adapted to feed the packages successively beneath said charging means, the charging means comprising a separate rotatable conveyor device carrying a plurality of charging funnels and adapted to successively advance the charging funnels above the packages to be filled thereby and to move the funnel filling a package commonly with the package being filled for a definite length of the feed of the packages, the two conveyor devices being arranged in superimposed relation so that the paths described by the central axes of the funnels and by the packages, respectively, during the rotation of said conveyor devices overlap each other for a certain distance.

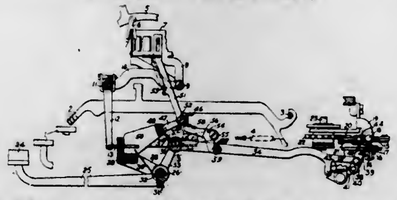
1,943,014
LUBRICATING SYSTEM
Frederick H. Gleason, Auburn, N. Y.
Application September 28, 1926
Serial No. 138,235
6 Claims. (Cl. 184—7)



1. In a centralized lubricating installation for a mechanism having a plurality of distributed bearings to be lubricated, said installation being of the type comprising a central reservoir and pump and a branched conduit system for conducting lubricant from the pump to a plurality of outlets connected to said bearings, said outlets each including an apportioning unit; each apportioning unit comprising a fitting element having a cavity and provided with an inlet portion receiving lubricant from the conduit system and an outlet portion feeding lubricant to the respective bearing, said inlet and said outlet portions being in communication with said cavity, a capillary filler member contained in said cavity and an annular gasket held against one end of said member, said gasket determining the proportionate rate of flow to the respective bearing

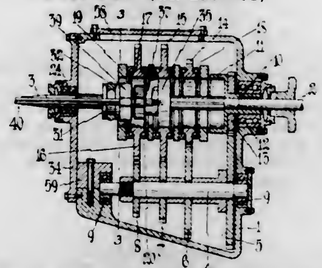
to which the outlet is connected in accordance with the relative size of the respective opening through the gasket.

1,943,015
TYPEWRITING MACHINE
George G. Going, Glenbrook, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application October 21, 1931. Serial No. 570,170
19 Claims. (Cl. 197—107)



9. The combination of a space key, printing keys each free for actuation independently of the condition of dip of the remainder of said printing keys, and means for positively returning the space key by a depression of any printing key.

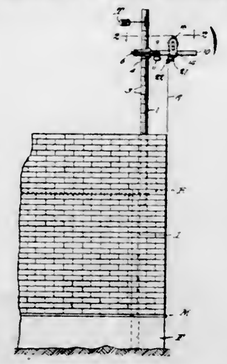
1,943,016
CLUTCH MECHANISM
Frederick Howe Hadfield, Auckland, New Zealand
Application December 27, 1929
Serial No. 416,901
6 Claims. (Cl. 192—75)



1. In a clutch mechanism of the kind described, a shaft, a clutch body keyed on said shaft, a gear wheel surrounding said body and constituting a driving element, expanding and contracting members on the body for engaging the gear wheel, a sleeve surrounding said body, a screw thread on the sleeve, an internally screw threaded toothed wheel working on the screw thread on the sleeve, clutch control means associated with the expanding and contracting members and operated by axial displacement of said toothed wheel and a pinion and rod for imparting turning movement to the internally screw threaded toothed wheel, to cause the latter to operate the control means to adjust the expanding and contracting members, to release or to grip said gear wheel surrounding the shaft.

1,943,017
BUILDER'S GUIDE
George Howard Harris, Portsmouth, Ohio
Application February 1, 1932. Serial No. 590,225
1 Claim. (Cl. 33—85)

A builder's guide including a standard graduated to indicate the location of courses to be erected, a reel, means for connecting the reel to the standard for adjustment longitudinally of the standard, angularly relative thereto, and toward or from the standard, a guide detachably and adjustably connected to the reel, said reel and guide being adjustable together relative to the standard, and a plumb line carried by the reel and extending through said guide.



1,943,018
SELF DRIVING POST
Jay L. Hench, Chicago, Ill., assignor to Mid-West Forging Company, Chicago, Ill., a corporation of Illinois
Application September 29, 1932
Serial No. 635,455
3 Claims. (Cl. 189—28)

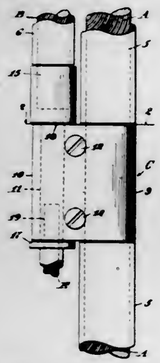


2. In combination, a tubular metallic socket having a pointed bottom and adapted to be driven into the ground, the upper edge of said socket forming a driving annulus lying in substantially a horizontal plane, and a post adapted to be supported in said socket, said post having a metallic driving member firmly attached to same and a portion below said driving member extending into said socket a distance substantially greater than necessary to support said post in said socket, said driving member adapted to be brought into driving engagement with the driving annulus on the upper edge of the socket by forcing the post downwardly in the socket, whereby the weight of the post can be used to hammer the socket into the ground without substantial damage to either post or socket.

1,943,019
PREPARATION OF FROZEN MEAT AND THE LIKE
Grover Ralph Henney and Charles Taylor Walter, Chicago, Ill., assignors to Swift and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application January 27, 1931 Serial No. 511,644
5 Claims. (Cl. 99—14)

1. The method of producing a comminuted flesh food product consisting in, first, subjecting the product to temperatures below freezing until the product is reduced to a semi-frozen condition, comminuting while in such semi-frozen condition, and pressing a collection of the resulting comminuted semi-frozen products to a desired form.

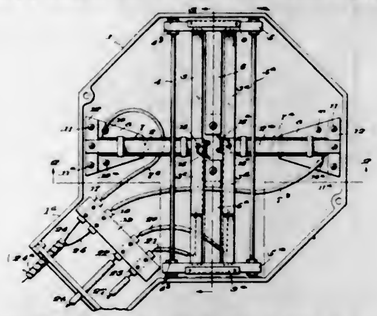
1,943,020
CABLE TAP CONNECTER
Karl V. Johnson, Los Angeles, Calif.
Application May 11, 1929. Serial No. 362,203
2 Claims. (Cl. 173—273)



1. In a cable tap connecter, a tap terminal including a cylindrical shank having a flange at one end and a shoulder at its other end, said shank being formed at each end thereof with a tap-wire receiving socket for the reception of and engagement with the ends of tap-wires, a pair of electrically conductive clamp members, jaws at one end of said clamp members adapted to receive the shank of said terminal, said jaws being formed to extend between the flange and shoulder of said terminal in close contact with said shank substantially throughout the portion thereof extending between said flange and shoulder, a pair of jaws on the other end of said members adapted to extend astride of and to substantially encompass a cable, and screw means inter-connecting said clamp members intermediate the pairs of jaws operable to collectively advance the jaws into engagement with the terminal and cable.

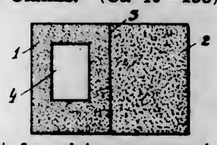
1,943,021
CURRENT LIMITER
David L. Keiser, San Antonio, Tex.
Application May 8, 1931. Serial No. 536,038
5 Claims. (Cl. 200—122)

5. A current limiter comprising the following instrumentalities: a base, a plurality of thermostats carried on said base and pairs of contacts carried by said thermostats, with means aligning two contacts of a pair so that one will be controlled by one thermostat and the other by another thermostat, together with electrical heating means for one of said thermostats, the



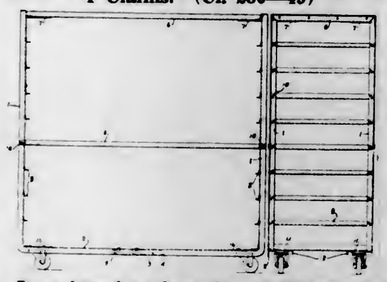
the other thermostat being responsive to changes in temperature in the surrounding air.

1,943,022
MOUNT FOR PICTURES, PHOTOGRAPHS, AND THE LIKE
Friedrich Köster, Frankfort-on-the-Main, Germany
Application January 13, 1933, Serial No. 651,555, and in Germany September 27, 1932
4 Claims. (Cl. 40—158)



1. A mount for pictures, comprising in combination a picture backing sheet, a picture covering sheet having a window, and a coating of dry adhesive on said backing and said covering sheet, said adhesive adhering only to surfaces coated with a similar adhesive and adapted to protect against sticking the edge portion of the picture inserted between said backing and said covering sheet.

1,943,023
BREAD RACK
Albert G. Langenkamp and Roy H. McElroy, Dayton, Ohio, assignors to International Engineering, Inc., Dayton, Ohio, a corporation of Ohio
Application March 4, 1932. Serial No. 596,824
4 Claims. (Cl. 280—49)



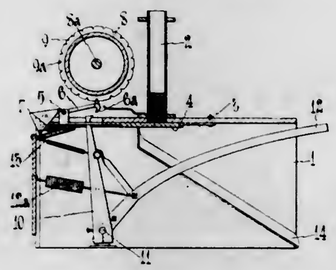
1. In a bread rack, a frame therefor having each end formed of a U-shaped strip of metal, each strip having integral laterally extending parallel arms, and connecting bars welded to the arms of one U-shaped strip and detachably secured to the arms of the other strip.

1,943,024
SILENT GEAR AND METHOD OF MANUFACTURE
Robert W. Lytle, Cincinnati, Ohio, assignor to The Formica Insulation Company, a corporation of Ohio
Application October 20, 1932. Serial No. 638,795
4 Claims. (Cl. 154—2)



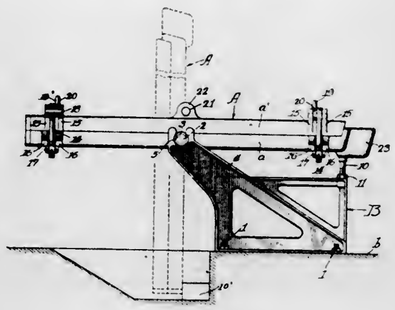
1. The method of forming a gear-blank which comprises: forming an assembly comprising a web-portion comprising a spirally wound relatively narrow fabric-strip impregnated with a heat-hardening binder and an encircling rim-portion comprising a spirally wound relatively wide fabric-strip impregnated with a heat-hardening binder; and consolidating and hardening the assembly under heat and under pressure which is applied against the edges of the laminations and produces intermeshing wrinkles in the laminations which extend in a circumferential direction.

1,943,025
TICKET ISSUING AND CHANGE GIVING MACHINE
Leonard Mangham, Masterton, and Oliver Bertrand Cottrell, Wellington, New Zealand
Application July 23, 1931, Serial No. 552,770, and in New Zealand May 28, 1931
10 Claims. (Cl. 133—2)



1. A ticket issuing and change giving machine, comprising in combination, coin magazines; a coin ejecting slide fitted to each magazine; a slide selector effective to make one or more slides operative to eject coins having a predetermined and fixed arrangement of change values provided thereon, selective means covering a range of values of money to be tendered, geared with said selector, for moving the latter in one direction; means geared with said selector, for imparting return movement to the latter; and means for operating selected slides to eject coins from magazines.

1,943,026
MOLD FOR CASTING ZINC SLABS
Miller A. McCreary and William B. Porter, Danville, Ill., assignors to The Hegeler Zinc Company, Danville, Ill., a corporation of Illinois
Application March 21, 1930. Serial No. 437,831
3 Claims. (Cl. 22—139)



1. In apparatus for the purpose specified, the combination of a frame, a mold proper comprising sections which form a mold cavity, means for pivotally mounting said mold proper on said frame, and stops which limit pivotal movement thereof to approximate vertical and horizontal positions, respectively, and the center of gravity of said mold proper being higher than the pivotal axis thereof, both in horizontal and vertical positions, and outside of its pivotal axis when said mold proper is vertical.

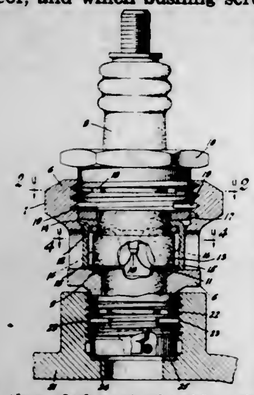
1,943,027
ELECTRON EMITTING ELEMENT
Hector Rabezzana, Flint, and Ora S. Duffendack, Ann Arbor, Mich., assignors to A C Spark Plug Company, Flint, Mich., a company of Michigan
No Drawing. Application March 2, 1931, Serial No. 519,675, and in Great Britain October 11, 1928
1 Claim. (Cl. 75—1)

An electron emitter homogeneous throughout made of an alloy characterized by ready electronic emissivity, ductility and resistance to heat and corrosion comprising a solid solution of calcium and nickel, calcium constituting from .04% to .10% of the total and the balance consisting essentially of nickel, and approximately 2% manganese.

1,943,028
SPARK PLUG
Hector Rabezzana, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a company of Michigan
Application February 23, 1932. Serial No. 594,490
8 Claims. (Cl. 123—169)

1. A spark plug having a hollow outer shell or casing internally threaded at its upper end, and an insulating member supported within the same and provided with an upper shoulder; stops arranged within said casing; an annular cupped washer surrounding said insulating member adjacent said upper shoulder and having depending lugs which engage the stops aforesaid to prevent said washer from turning; a gasket within said cupped washer and between the same and said upper shoulder; and an annular threaded bushing

having one or more slots extending through the wall thereof, and which bushing screws into the



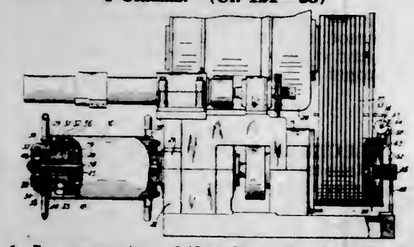
internally threaded part of said casing and acts to force said gasket against said shoulder.

1,943,029
SERVO-MOTOR

Edwin J. McIlvried, Akron, and Jesse C. Bittman, Cuyahoga Falls, Ohio, assignors to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio

Original application July 26, 1930, Serial No. 470,290. Divided and this application September 19, 1931. Serial No. 563,738

4 Claims. (Cl. 121—38)



1. In apparatus of the character described the combination of a rotatable cylinder, a piston in said cylinder, and means for supplying and exhausting pressure fluid to and from said cylinder comprising a non-rotatable member extending through an opening in the wall thereof and having a fluid passage communicating with the interior of the cylinder, valve means for controlling the passage of said member, portions of said member being spaced from the sides of said opening to provide an auxiliary exhaust passage through said opening and around said member, said member having an enlarged portion adapted to be sealingly pressed against said wall by fluid pressure within the cylinder, and spring means normaly urging said enlarged portion away from said wall.

1,943,030
PROPAGATION OF TREES FROM CUTTINGS

Ralph H. McKee, New York, N. Y.

No Drawing. Application August 2, 1932 Serial No. 627,304

10 Claims. (Cl. 47—58)

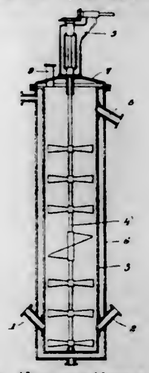
1. The method of propagating trees from cuttings which are taken or set out under conditions which normally tend to prevent growth which comprises providing a waterproof coating on the upper portion of said cuttings, and planting the thus treated cuttings.

1,943,031
PROCESS OF CONTINUOUS PRODUCTION OF NITROPENTAERYTHRITE, TETRANITROMETHYLANILINE, TRINITRORESORCINE, AND SIMILAR NITROCOMPOUNDS

Josef Meissner, Burbach, Germany

Application August 25, 1930, Serial No. 477,790, and in Germany September 28, 1929

1 Claim. (Cl. 260—142)



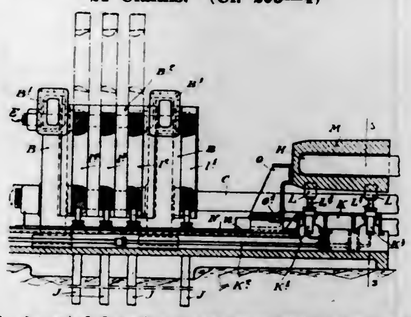
A process for the continuous production of nitro-pentaerythrite which comprises dissolving pentaerythrite in sulfuric acid, adding nitric acid, passing the resulting solution over an extended ascending path while agitating and maintaining the solution at the reaction temperature and separately discharging at the end of said path spent mixed acid and crystals of nitrated pentaerythrite which float on the surface of said mixed acid.

1,943,032
METAL DRAWING PRESS

Nicolas Emilien Methlin, Paris, France, assignor to Schneider & Cie., Paris, France, a company of France

Application July 6, 1931, Serial No. 549,040, and in France August 5, 1930

21 Claims. (Cl. 205—4)



1. A metal drawing press comprising a movable mandrel, a plurality of die holders fixed in the line of travel of said mandrel and adapted to support the drawing dies, and fluid pressure actuated means for selectively moving said die holders into and out of the path of said mandrel at will.

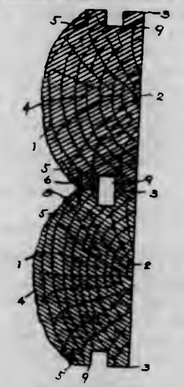
1,943,033
BUILDING MATERIAL

Gilbert Midby, Whitefish, Mont.

Application July 29, 1932. Serial No. 626,168

2 Claims. (Cl. 20—4)

1. Building material, comprising half logs formed of the entire logs centrally and longitudinally divided through the heart thereof and having vertical inner faces, upper and lower horizontal faces intersecting said inner faces at right angles whereby the half logs are adapted to be piled upon one another to form a continuous vertical inner wall face, said half logs at the intersections of the horizontal faces with the convex



outer faces of the half logs being provided with vertical grooves of the width of the saw used in making said grooves, and a longitudinal vertical insulation strip of metal fitting in the groove of the upper half log of each pair of half logs and having a lower outwardly bent apron portion resting upon and secured to the upper portion of the outer side of the lower half log of the pair.

1,943,034
DOUBLE ACTING PUMP CYLINDER

Philip A. Myers, Ashland, Ohio, assignor to The F. E. Myers & Bro. Company, Ashland, Ohio, a corporation of Ohio

Application July 23, 1930. Serial No. 469,956

5 Claims. (Cl. 103—187)



1. A double acting pump consisting of a casing, a movable cylinder having a valve at the top and packing to seal said cylinder from the casing, a stationary tube, stationary sealing means for sealing the chamber above said tube from the space below and outside of said tube, and passageways extending through said sealing means, check valve means for closing said passageways whereby leakage liquid collected around said tube is forced upward through said passages to said chamber, the bottom of the cylinder having a bucket having a sliding fit with the outside of the tube, an inlet from the bottom of the well, said inlet being located below the cylinder and communicating with the space below the cylinder and with the tube which extends up through said bucket, and a valve located in the outlet, below the end of the cylinder.

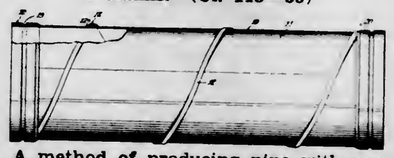
CARNEGIE LIBRARY OF ATLANTA

1,943,035
METHOD OF PRODUCING TUBING OR PIPE

Carl G. Naylor, Chicago, Ill., assignor to Naylor Pipe Company, Chicago, Ill., a corporation of Illinois

Original application April 5, 1930, Serial No. 441,885. Divided and this application January 9, 1931. Serial No. 507,686

4 Claims. (Cl. 113—33)



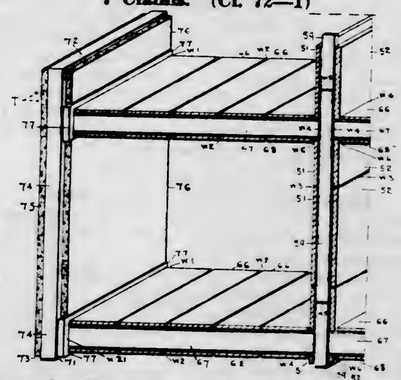
1. A method of producing pipe with annular end pieces welded thereto, which method comprises forming a body portion by winding a strip of metal into spirally related convolutions, forming an annulus from a bar of metal and welding the ends of the bar to each other, and welding said annulus to said body portion.

1,943,036
CONCRETE, MASONRY, AND STEEL CONSTRUCTION

John J. O'Reilly, Woodside, N. Y.

Application November 19, 1929 Serial No. 408,265

7 Claims. (Cl. 72—1)



1. A building structure comprising frames having a plurality of spaced metal supporting members welded to like cross framing members as described, said frames being welded together to form wall, floor, partition and roof framing substantially as described, lateral reciprocal bracing for the outer wall framing consisting of metal plates and reinforced stone sheathing or the like with a hollow space or blanket of insulating materials between the inner and outer layers of the said sheathing, lateral reciprocal bracing for the partitions, floor and roof framing consisting of metal plate sheathing as described faced with reinforced plastic or cementitious materials or the like, the aforesaid wall and partition framing being arranged in structural continuity from foundation to main roof or setback

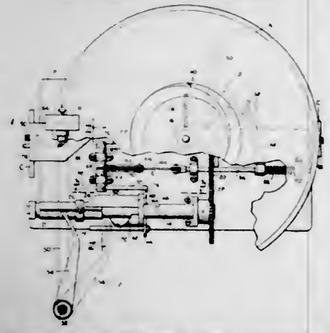
and having its individual members aligned in structural relation with the individual members of the floor and roof frames and reciprocal overhead tension and foundation support for the lower vertical supporting members of the structure.

1,943,037
FOLDING CHAIR
Floyd M. Overbey, Manteno, Ill.
Application October 15, 1931. Serial No. 569,052
2 Claims. (Cl. 155—145)



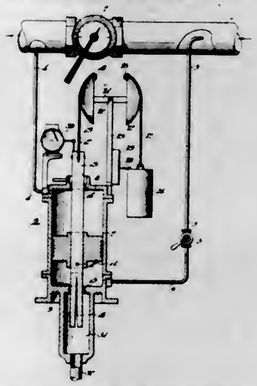
1. A folding chair comprising side members constituting legs, a seat support secured to and between said side members, legs pivoted between their ends to the side members, a seat pivotally connected to the upper ends of said legs adjacent its front edge and having its rear end portion slidably connected with the upper end portions of the side members, the back edge portion of the seat resting on the seat support when in operative position, side arms pivoted at their rear ends to the side members above the seat, braces pivoted at their lower ends to the side members below and in advance of the pivotal connections between said members and the legs and having sliding connection at their upper ends with the side arms, and retaining brackets secured to the legs near the upper ends thereof and having sliding connection with said braces.

1,943,038
DIFFERENTIATION OF SPEEDS
Thomas E. Piazze, Brooklyn, N. Y., assignor to Technidyne Corporation, New York, N. Y., a corporation of New York
Application September 18, 1929
Serial No. 393,359
29 Claims. (Cl. 274—1)



25. A universal phonograph control comprising a smooth cylinder rotated by the turn table mechanism, a sleeve frictionally engaging said cylinder and rotatable and reciprocable thereon, a projection extending radially from said sleeve, a finger oscillated by travel of the reproducer, the tip of said finger cutting into the path of rotation of the projection and thereafter stopping rotation of the sleeve and causing the same to creep with it along the cylinder at a speed commensurate with that of the reproducer, the engagement of the projection and tip being unstable so that either stopped or accelerated movement of the reproducer, as at the end of a record, causes the projection to leave the tip of the finger, phonograph control means responsive to the resulting rotation of the sleeve, and a helical surface arranged about the cylinder for engagement by the projection when the sleeve rotates in order to force the sleeve back to its starting position for the control of another record.

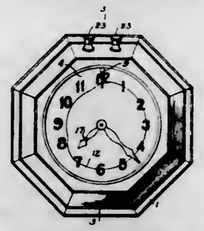
1,943,039
PROPORTIONING AND FEEDING DEVICE
Dale N. Randolph, Pittsburgh, Pa., assignor to Wm. B. Scaife & Sons Company, Oakmont, Pa., a corporation of Pennsylvania
Application June 11, 1932. Serial No. 616,577
16 Claims. (Cl. 210—38)



1. A proportioning device comprising, in combination, a conduit for conveying fluid, a second conduit in communication therewith, a third conduit also in communication therewith, the disposition of said second and third conduits with respect to each other and with respect to said first-mentioned conduit being such that the differential between the derived fluid pressures within said second conduit and said third conduit depends upon the rate of flow of fluid in said first-mentioned conduit, conduit means for conveying a second flow of fluid to a point of use, an orifice in said conduit means, and means automatically adapted to impose a fluid pressure on one side of said orifice substantially equal to the derived fluid pressure within said second conduit and a fluid pressure on the other side of said orifice substantially equal to the derived fluid pressure within said third conduit, whereby the rate of flow of fluid in said conduit means is maintained in predetermined proportion to the rate of flow of fluid in said first-mentioned conduit.

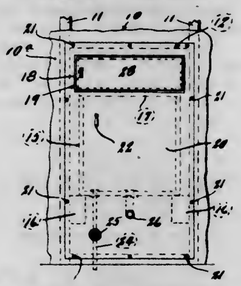
1,943,040
TIME CONTROLLED ELECTRIC SWITCH
James W. Redmond, Dayton, Ohio
Application February 9, 1933. Serial No. 655,878
1 Claim. (Cl. 200—38)

In an attachment to a clock having a casing, a dial, a clock motor mounted behind said dial, hour and minute hands in front of said dial and a cam disc attached to said hour hand, an aperture formed in said dial, a pivoted arm behind said dial and extending through said aperture, cam follower means integral with said arm and



engaging said cam disc, contact means mounted on said arm, and means for making and breaking an electrical circuit through said contact means when the cam disc is rotated to move said pivoted arm.

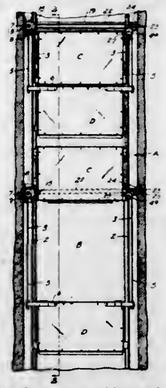
1,943,041
CONCEALED FLUSH TANK
Frederick D. Reynolds, St. Louis, Mo.
Application April 30, 1931. Serial No. 533,951
2 Claims. (Cl. 4—68)



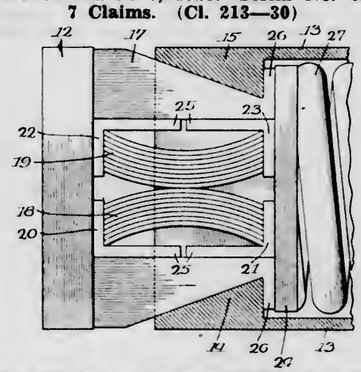
1. In a flush tank construction, the combination of a wall having a recess formed in one side thereof, a flush tank supported within said recess, a cover plate detachably secured to said wall for closing said recess, said plate being provided in its upper end with a horizontally disposed opening arranged above the upper end of said tank to provide access thereto, a box-shaped member having an open front removably disposed within said wall recess above said tank, and a closure member hingedly mounted on said cover plate for closing the open front of said box-shaped member.

1,943,042
DOOR OPERATING MECHANISM
Julius A. Schweig, St. Louis, Mo.
Application October 29, 1930. Serial No. 491,889
5 Claims. (Cl. 268—59)

1. In a door operating mechanism, a vertically slidable door, a pair of drive wheels located one adjacent to each upper corner of said door, chains passing over the respective drive wheels and connected to said door, an electric motor, a pinion on the armature shaft of said motor, a gear meshing with said pinion, a pinion rotatable with said last mentioned gear, a gear rotatable with one of said drive wheels and meshing with said last mentioned pinion, a sprocket wheel rotatable with said drive wheel, an idler sprocket wheel located adjacent to the other drive wheel, an endless sprocket chain passing around said sprocket wheels, and a sprocket wheel rotatable with said last mentioned drive wheel and driven by said endless sprocket chain.



1,943,043
DRAFT GEAR
Donald F. Sproul, Chicago, Ill., assignor of one-half to Cardwell Westinghouse Co., a corporation of Delaware, and one-half to W. H. Miner, Inc., a corporation of Delaware
Application March 7, 1928. Serial No. 259,693
7 Claims. (Cl. 213—30)

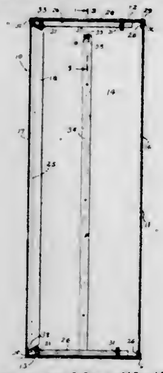


3. In a draft gear, in combination, a plate follower, an opposed chambered follower, a spring and a seat therefor housed within the chambered follower, two groups of longitudinally disposed inwardly bowed spring plates interposed between the plate follower and the spring seat and normally under pressure from both, wedge means acting laterally inward upon the spring plates, and plates interposed between each group of spring plates, the spring seat, the plate follower and the wedge means and having frictional engagement with the spring seat and follower.

1,943,044
COLLAPSIBLE WARDROBE
Abraham Stone, Brooklyn, N. Y.
Application June 28, 1933. Serial No. 677,958
4 Claims. (Cl. 312—144)

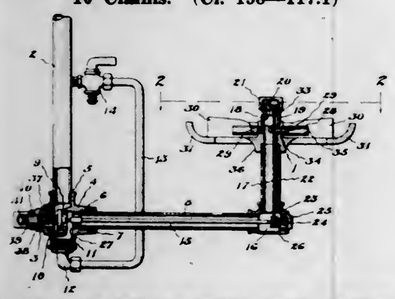
2. A container including side walls and end walls each of said end walls being provided with a rigid marginal frame having a marginal flange, each side wall being provided adjacent each end with a reinforcing strip secured against its inner

face and said side walls at their ends telescopically fitted within the flanges of said frames respectively, and spring latch means carried by the



said end walls engageable with the said strips for releasably locking the said end walls in connected position on the side walls and the said walls in box formation.

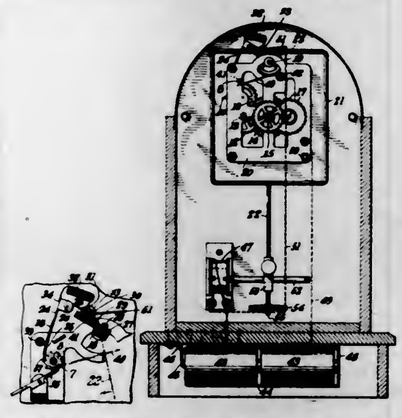
1,943,045
THERMOSTATIC GAS BURNER
Edmund J. Te Pas, Lakewood, Ohio, assignor to The Cleveland Heater Company, Cleveland, Ohio, a corporation of Ohio
Original application April 21, 1928, Serial No. 271,798. Divided and this application April 29, 1929. Serial No. 358,769
10 Claims. (Cl. 158—117.1)



1. In a variable capacity main heating gas burner, the combination of a burner head, mixer tubes carried by the burner head for supporting a plurality of flames at points radially spaced a substantial distance from the center of said burner head, means out of the path of the burner flames and adjacent to the ends of said mixer tubes for conducting heat from the flames supported thereat to the central portion of the burner head, and thermostatic means responsive to the temperature of the central portion of the burner head for cutting off the supply of gas to the burner upon its extinguishment.

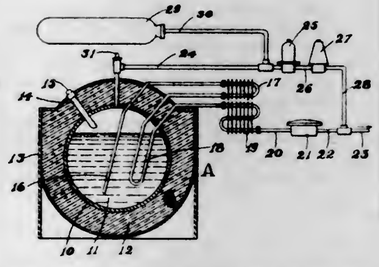
1,943,046
TIMEPIECE
Eugene T. Turney, Holmes, N. Y.
Application December 10, 1932
Serial No. 646,585
2 Claims. (Cl. 58—30)

1. A timepiece, comprising a time train having a driving ratchet at the head of the same, an oscillating pendulum arbor, a swinging pendulum supported thereby, a laterally extending arm on said arbor, a substantially vertically extending drive pawl pivotally hung from said laterally extending arm in overstanding relation above the ratchet and gravitationally engaging said ratchet, a thin layer of insulation on the face of said pawl toward the ratchet, the lower end edge of said



pawl being exposed for downward pushing sliding engagement with the tooth face in front of the same on the downstroke of said pawl, an electromagnet for swinging the pendulum and a momentary energizing circuit for said electromagnet including said endwise engaging pawl and said ratchet.

1,943,047
APPARATUS FOR DISPENSING GAS MATERIAL
Lee C. Updegraff, New York, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application July 26, 1932. Serial No. 624,675
8 Claims. (Cl. 62—1)



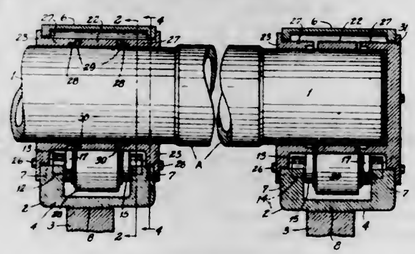
8. Apparatus for dispensing gas material comprising, in combination, a container for liquefied gas, gas phase withdrawal connections leading from said container, liquid phase withdrawal connections leading from said container and having a discharge passage in common with said gas phase withdrawal connections leading to consuming apparatus, receiving means for holding gas material in the gas phase connected to communicate with said gas phase withdrawal connections, and automatic means associated respectively with said gas phase and liquid phase withdrawal connections for maintaining the discharge of gas material to consuming apparatus during the discharge period at a working pressure of substantially constant value.

1,943,048
FOUNTAIN PEN
Joseph Wallace, Brooklyn, N. Y.
Application February 3, 1933. Serial No. 655,022
6 Claims. (Cl. 120—42)



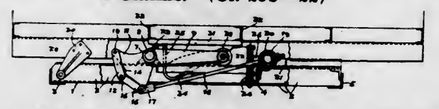
1. In a fountain pen employing a tubular barrel with a point and feed section detachable with respect to the open end of said barrel, a tubular body of transparent material arranged in and forming part of the wall structure of the barrel of the pen, the wall of said tubular body being in alinement with the wall of the pen barrel, said body consisting of inner and outer tubes fitting snugly one within the other, one of said tubes being composed of non-breakable material, means for sealing and securing one end of said body to the wall structure of the pen barrel, and one end of the inner tube protruding beyond the corresponding end of the outer tube forming an annular groove for receiving the wall structure of the pen barrel.

1,943,049
BEARING CONSTRUCTION
Samson M. Weckstein, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application October 22, 1932. Serial No. 639,075
10 Claims. (Cl. 308—203)



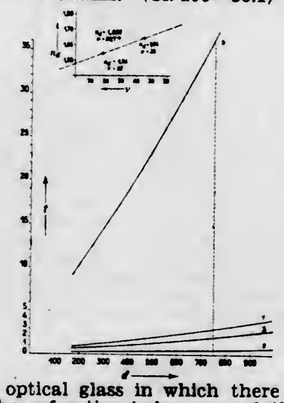
1. The combination of a frame, journal boxes thereon, a pair of trunnion rolls in each box, a work roll having its neck portions extending into the boxes and provided with integral wear rings which rest on said trunnion rolls, and means provided on the box at one end only of said work roll for engaging the ends of the work roll neck wear ring whereby one end of said work roll is substantially fixed whereas the other end thereof is free to move endwise.

1,943,050
HOISTING MECHANISM FOR DUMP TRUCKS
Lancelot Brisbin Beath, Toronto, Ontario, Canada
Application August 28, 1931. Serial No. 560,026
4 Claims. (Cl. 298—22)



1. In a dump truck, the combination with the chassis and dump body pivotally mounted thereon, of a shaft transversely mounted on the chassis, longitudinally disposed cam blocks extending downwardly from the dump body, a pair of sleeves rotatably mounted on the shaft, a pair of levers extending from each of said sleeves and disposed to either side of the respective cam blocks to receive the latter therebetween when the body moves downwardly, rollers supported between the free ends of each pair of levers and co-operating with the cam blocks, and means for rotating said sleeve members.

1,943,051
OPTICAL GLASS
Edwin Berger, Jena, Germany, assignor to firm Jenaer Glaswerk Schott & Gen., Jena, Germany
Application July 27, 1932, Serial No. 625,109, and in Germany July 29, 1931
5 Claims. (Cl. 106—36.1)

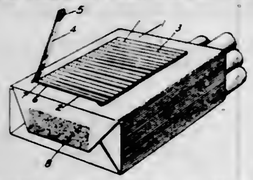


1. An optical glass in which there exists between the refractive index n_d and the relative dispersion γ the relation $n_d > 1{,}77 - 0{,}0037\gamma$, containing 0.5% to 20% titanium oxide, the purpose of the titanium oxide being to reduce the susceptibility of the glass to tarnishing.

1,943,052
CIGARETTE CONTAINER OR THE LIKE
Richard G. Berry, Jr., Columbus, Ohio
Application August 4, 1931. Serial No. 555,058
1 Claim. (Cl. 206—48)

A container for cigarettes or the like having a series of matches mounted thereon, said series of matches comprising a sheet of cardboard provided with a plurality of slits so disposed that a series of match stems are produced, said slits extending substantially the entire width of said cardboard but terminating a slight distance from one edge thereof, said cardboard being provided with a plurality of rows of perforations, each of said rows extending from a point where each of

said slits terminates to a point at the edge of the cardboard, a head formed on the outer end and



under surface only of each of said stems, the perforated portion of said cardboard being pasted to said container.

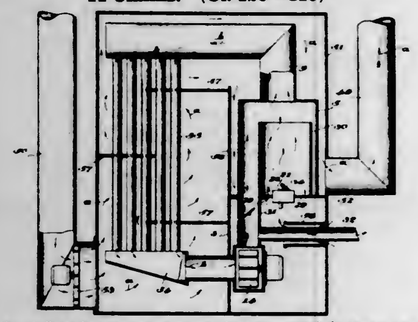
1,943,053

INTERNAL COMBUSTION APPARATUS

Charles L. Boisset, New Orleans, La.

Application February 28, 1931. Serial No. 519,195

11 Claims. (Cl. 126—116)



2. A heat source apparatus comprising an open outer cylinder, an inner cylinder spaced therefrom having a top closure communicable with a conduit, a casing, a foundation plate providing a mounting for the cylinders, covering the casing and having a hole providing communication of the casing with the space between the cylinders, a fan housing having a pipe connected with the inner cylinder and an inlet connectible with said conduit to set up a suction in the inner cylinder, a fuel burner mounted on said plate including a bonnet having air outlets supplied with air from said hole, and an open ended chamber situated in the inner cylinder on said plate around the burner bonnet.

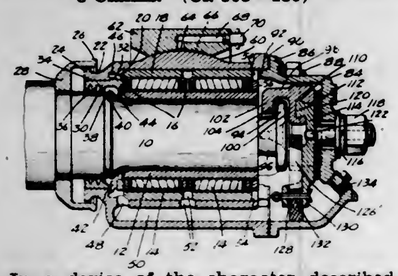
1,943,054

JOURNAL BOX

Richard J. Brittain, Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 12, 1929. Serial No. 399,351

8 Claims. (Cl. 308—180)



1. In a device of the character described, a housing, an axle journalled in the housing and having a collar, a thrust block carried by the housing and opposing the outer side of the collar to take thrust of the axle in one direction, the thrust block having a portion overhanging the collar to take thrust of the axle in the other direction, a wick for conveying lubricant to the thrust surfaces on the outerside of the collar, and a tapered axle surface inside the collar for conveying lubricant to the thrust surfaces on the inner side of the collar; substantially as described.

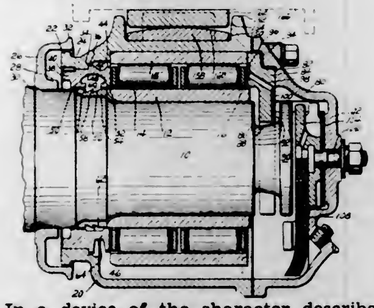
1,943,055

JOURNAL BOX AND CAR FRAME SUPPORT

Richard J. Brittain, Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application April 29, 1930, Serial No. 448,240. Divided and this application April 1, 1932. Serial No. 602,417

11 Claims. (Cl. 105—223)



1. In a device of the character described, a shaft, a journal box having a recess in the top, a lower seat plate in the recess, an upper seat plate in the recess and rockably mounted on the lower seat plate, a frame member resting on the upper seat plate, the frame member having spaced ribs holding the upper seat plate from shifting relatively thereto; substantially as described.

1,943,056

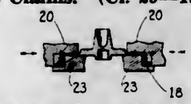
METHOD OF MAKING BRAKE DRUMS

Edward G. Budd, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 3, 1929. Serial No. 360,226

Renewed May 9, 1933.

3 Claims. (Cl. 29—152.2)



2. The process of making brake drum like structures which consists in obtuse angle rolling an integrally formed head and a conically formed drum of substantially the final form, and thereafter radially contracting said drum by directly applied radial pressure to develop the cylindrical form of the same.

1,943,057

ENGINE AND TRANSMISSION CONTROL MEANS

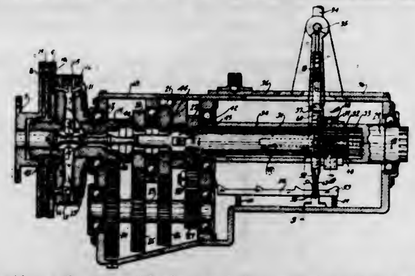
Eugene S. Bush, St. Louis, Mo., assignor to Bush Manufacturing Company, St. Louis, Mo., a corporation of Missouri

Application February 8, 1932. Serial No. 591,590

17 Claims. (Cl. 192—.01)

1. In a power plant including a prime mover, a clutch and a speed change transmission, a control

element, connections from said element for actuating the clutch and varying the speed ratio through said transmission, and additional con-



nections from said element for varying the speed of said prime mover, sequentially with respect to clutch-actuating and speed-change control movements of said control element.

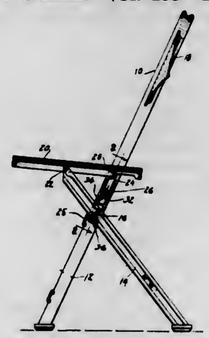
1,943,058

FOLDING CHAIR

Werner E. Clarin, Chicago, Ill., assignor to Acme Chair Company, Reading, Pa., a corporation of Michigan

Application June 16, 1931. Serial No. 544,824

3 Claims. (Cl. 155—143)



1. In a folding chair having a pair of upright leg elements, a stop plate secured to each upright leg element, a pair of rear leg elements pivoted to the upright leg elements, a seat element pivoted directly to the rear leg elements, said seat element pivoted indirectly to the other pair of leg elements by a pair of links, each link pivoted at one end to the stop plate carried by the upright leg elements and at the opposite end to the adjacent side rail of the seat element, said stop plate being provided with a flange adapted to engage the link to limit the unfolding of the seat.

1,943,059

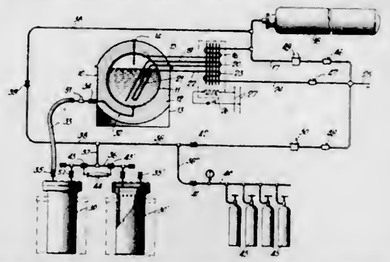
APPARATUS FOR DISPENSING GAS MATERIAL

Leo I. Dana, Buffalo, N. Y., assignor to The Linde Air Products Company, New York, N. Y., a corporation of Ohio

Application March 3, 1933. Serial No. 659,483

10 Claims. (Cl. 62—1)

1. Apparatus for dispensing gas material, comprising the combination with a container for liquefied gas, of a system connected to said container for supplying withdrawn gas material in the gas phase at one desired pressure to a consumer, means connected to said system for converting liquefied gas into gas at a second desired pressure, means for supplying liquefied gas from said container to said converting means, and



means for withdrawing and storing temporarily the excess gas material in the gas phase from said converting means.

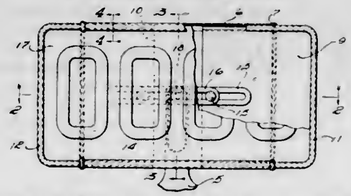
1,943,060

AUTOMOBILE LICENSE PLATE HOLDER

Clarence R. Davis, Detroit, Mich., assignor to Davis Tool & Engineering Company, Detroit, Mich., a corporation of Michigan

Application February 17, 1932. Serial No. 593,588

8 Claims. (Cl. 40—125)



6. An automobile license plate holder including a back plate and end plates, the said back plate and said end plates being provided with flanged edge portions adapted to engage the edges of a license plate to be held therein, a slotted tongue carried by each end plate and adapted to hold said end plates in place and means maintaining said slotted tongues in superimposed relation to each other, and means for securing the said holder to an automobile and including a formed bracket secured to the automobile, a depressed portion on said back plate adapted to be received by said formed bracket, and a bolt passing through said depressed portion and said formed bracket.

1,943,061

HYDRAULIC DRIVE FOR MACHINE TOOLS

James K. Douglas, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

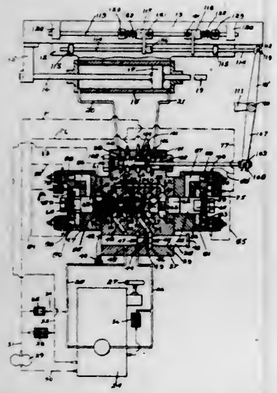
Application October 21, 1929. Serial No. 401,301

5 Claims. (Cl. 60—52)

4. In a machine of the character described the combination of a driven member, hydraulically actuated means for driving said member, a pump, hydraulic connections including a reversing valve between said pump and means, means for operating said valve to reverse the direction of motion of said member, and a pressure relief valve controlled by said reversing valve for limiting the pressures in said connections during reversal.

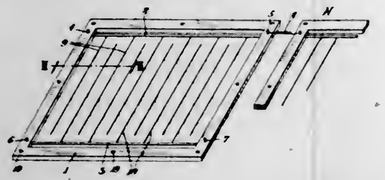
5. In a machine of the character described the combination of a reciprocating member, hydraulically actuated means for driving the same, a reversing valve operable to reverse the direction of motion of said member, fluid actuated means for

operating said valve, and means including a temperature responsive valve connected with said



fluid actuated means for controlling the rate of operation of said reversing valve.

1,943,062
MEANS FOR PREVENTING THE FORMATION OF ICE ON AIRPLANES AND THE LIKE
Edward A. Driscoll, New York, N. Y.
Application July 29, 1931. Serial No. 553,779
7 Claims. (Cl. 219—19)



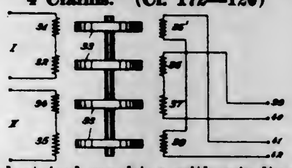
1. A device for preventing the formation of ice upon surfaces, said device consisting of a cover for said surface absorbent throughout so as to absorb moisture wherever moisture falls thereunto, and electrically operable heating means including opposite polarity conductors spaced apart by portions of the absorbent material of the cover adapted to pass current through moisture in said material and to thereby generate heat at any locality where moisture has fallen onto and wet said material, said conductors being inoperative to produce heat where the material of the cover is dry.

1,943,063
MOLDED BUTTON
Paul E. Fenton, Thomaston, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application April 27, 1933. Serial No. 668,178
4 Claims. (Cl. 24—95)



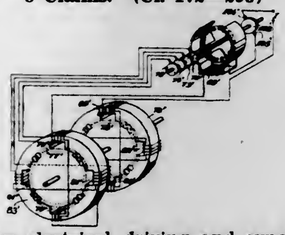
1. A molded button having a centrally-disposed prominence on its back and a metal attaching element securely embedded therein at the center of the prominence.

1,943,064
ELECTRICAL MACHINE
Fritz Fischer, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application November 25, 1930, Serial No. 497,967, and in Germany November 29, 1929
4 Claims. (Cl. 172—120)



1. An electrical machine with windings having more than two self-impedances, comprising a plurality of similar component machines each having as its elements a toothed rotor and a stator and windings on the stator, said rotor having no windings thereon and the rotors of said component machines having all the same tooth pitch, the stator windings of any one of said component machines having only two self-impedances altogether and being in such relation to each other that there will be a mutual impedance between them, at least one of said impedances being variable with the rotor shift, said rotors being coupled mechanically and said windings of different component machines being connected electrically.

1,943,065
ELECTRICAL DRIVE FOR SOUND FILM EQUIPMENTS AND THE LIKE
Fritz Fischer, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application November 26, 1930, Serial No. 498,305, and in Germany November 29, 1929
8 Claims. (Cl. 172—293)



1. In an electrical driving and synchronizing mechanism, a driving machine consisting of a motor provided with a collector and having substantially a single-axis alternating field, and a driven machine operating with a plurality of phases and consisting of a plurality of component machines, each component machine having as its elements a toothed coilless rotor, a toothed stator, and primary and secondary phase windings on the stator, said rotors and stators having all the same tooth pitch, the stator windings of any one of said component machines having only one primary self-impedance and only one secondary self-impedance altogether and being in such relation to each other that there will be one mutual impedance between them, the windings of the component machines being arranged and connected in series to form on the primary side as well as on the secondary side as many groups as there are phases, in such a manner that each phase on the primary side is coupled through its rotors with each phase on

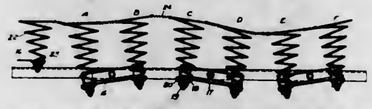
the secondary side, said rotors being coupled mechanically and said windings of one of the said sides being connected electrically with said driving machine.

1,943,066
GOLF PLAYER'S CLUB SELECTING DEVICE
Frederick H. Ford, Waupun, Wis.
Application May 29, 1930. Serial No. 456,958
2 Claims. (Cl. 273—77)



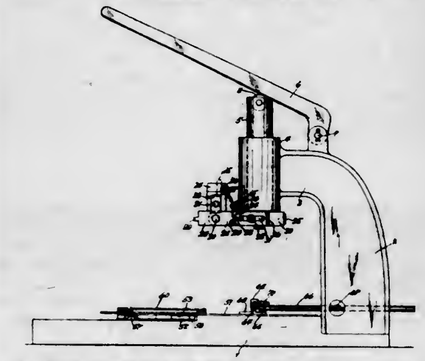
1. As a new article of manufacture, a golf club selector for use in testing the requirements of an individual purchaser, comprising axially adjustable grip and shaft members indexed and calibrated for identification of clubs of standard lengths, in combination with a shank portion provided with a head connected to the shank by a pivotal joint for swinging movement about an axis parallel to the plane of the sole, the pivotal joint affording sufficient friction to temporarily maintain said head and shank in fixed relation, said head being adjustable by the hand of the operator under pressure sufficient to overcome the frictional resistance of the pivot joint to pivotal movement.

1,943,067
COILED SPRING STRUCTURE
William B. Foster, Utica, N. Y., assignor to Foster Brothers Manufacturing Company, Utica, N. Y., a corporation of New York
Application February 19, 1932. Serial No. 594,073
3 Claims. (Cl. 5—248)



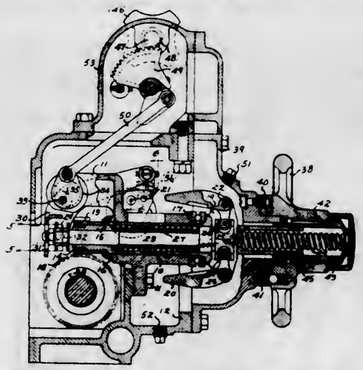
1. In a coiled spring bed, the combination of a main rigid frame having two spaced side rails, vertically disposed coiled springs arranged in transverse rows and forming at their upper ends a mattress-supporting surface, rigid tilting plates extending lengthwise of said side rails and pivoted thereto intermediate their ends to swing in a vertical plane, a spring-supporting cross bar for each row of coiled springs, the opposite ends of adjacent pairs of certain of said cross bars being rigidly secured to the opposite ends of corresponding tilting plates and forming a plurality of four-sided, independent frames and means loosely connecting the top coils of adjacent springs.

1,943,068
EMBOSSING AND PRINTING MACHINE
Prince A. Gardner, Jr., St. Louis, Mo.
Application September 6, 1932. Serial No. 631,762
16 Claims. (Cl. 101—3)



1. In a machine of the character described, a support for supporting the material to be imprinted or embossed, a plunger movable longitudinally toward and from said support, a latch device supported by said plunger, a type carrier pivoted to said plunger, mechanism for supporting type in said type carrier to imprint or emboss the material on said support, and projections on said type carrier engageable with and disengageable from said latch device, the engagement of said projections with said latch device being automatic and as an incident to the movement of said type carrier to different adjusted positions.

1,943,069
GOVERNOR CONTROL MECHANISM
Morris J. Goldberg, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application August 30, 1928. Serial No. 302,907
3 Claims. (Cl. 264—3)



1. In an auxiliary manual control mechanism for a centrifugal governor of a type characterized by a yieldably opposed, centrifugally actuated spindle, the combination with the governor and governor case, of a boss formed by a wall element of the case and provided with a bore in line with the governor spindle, a pair of sleeves mounted in opposed relation within said bore, and slidably movable therein, each of said sleeves having one closed end and one of the sleeves being telescopically disposed in the other, a ball

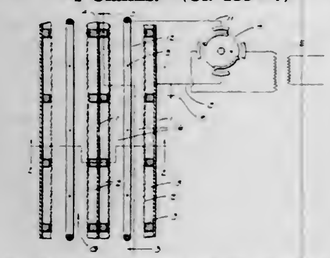
element between the closed end of one sleeve and the governor spindle, a spring carried within and between the sleeves, a control wheel having a hub portion journalled on said boss, a flange carried by the boss for preventing axial movement of the control wheel, the hub being provided with internal threads beyond its journalling portion and one of the sleeves being provided with companion external threads, adapted through coaction of the threaded parts when the wheel is rotated, to effect a relative endwise displacement of the sleeves, for varying the loading of said spring.

1,943,070

ELECTRICAL PRECIPITATION APPARATUS

Georg Grave, Frankfort-on-the-Main, Germany, assignor to International Precipitation Company, Los Angeles, Calif., a corporation of California

Application November 23, 1931, Serial No. 576,864, and in Germany December 23, 1930
4 Claims. (Cl. 183—7)



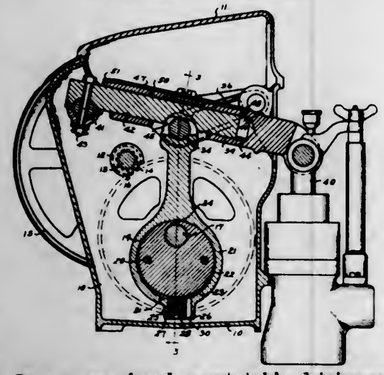
1. An electrical precipitation apparatus comprising a discharge electrode, a collecting electrode, and means disposed between said electrodes and electrically connected with said collecting electrode by means of semi-conducting material and cooperating with said collecting electrode to define collecting spaces for precipitated material.

1,943,071

POWER TRANSMISSION MECHANISM

William H. Harstick, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application May 2, 1929. Serial No. 359,777
14 Claims. (Cl. 184—4)



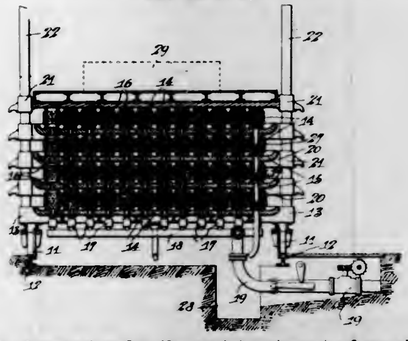
1. In a power head, a rotatable driving member, means for translating the rotary movement of said member into a reciprocating movement, said means including a walking beam comprising a plurality of elements, one of said elements forming a fluid displacement chamber and another of said elements adapted to displace a fluid from said chamber.

1,943,072

TREATING APPARATUS

Conrad Herrmann, Wuppertal-Elberfeld, Germany, assignor to American Glanzstoff Corporation, New York, N. Y., a corporation of Delaware

Application May 16, 1932, Serial No. 611,717, and in Germany May 15, 1931
5 Claims. (Cl. 8—19)
(Granted under section 14, act of March 2, 1927, 357 O. G. 5)



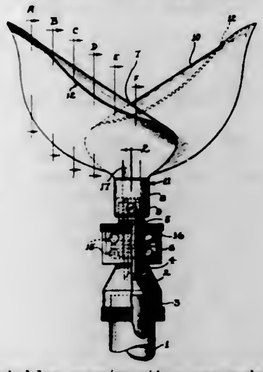
1. Apparatus for the wet treatment of spooled artificial silk comprising a frame, a plurality of spool carrying plates supported by said frame one above the other and having a plurality of openings formed therein over which the spools are placed, said openings having concentric shoulders formed integrally on the upper and lower surfaces of the said plates for centering the spools, each plate comprising a rigid frame having secured thereto a sheet of elastic material, said plates forming a seal between the spools of each stack, and means to force liquid through each stack of spools and through the thread carried thereby.

1,943,073

LAWN SPRINKLER

Earl L. Heverly, Chicago, and George H. Hilgendorf, Glencoe, Ill.

Application July 7, 1932. Serial No. 621,160
2 Claims. (Cl. 299—126)



1. A sprinkler construction comprising a tubular member rotatable about its axis, and a pair

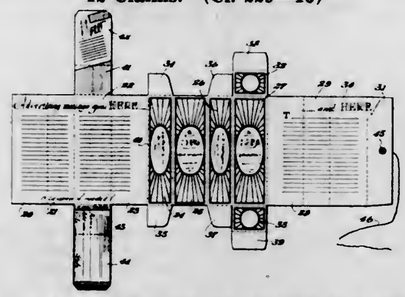
of distributing vanes of sheet material mounted on said rotatable member, each vane being curved to provide a guideway for the water and having a generally cylindrical surface, the axis of which cylinder extends at an angle to the axis of the rotatable member, the vanes having juxtaposed portions positioned diametrically of the rotatable member for dividing the jet as it comes from the nozzle, said tubular member having diametrically-opposed slots extending completely through the walls thereof and said vanes having downward extensions fitting snugly in said slots and secured to said tubular member.

1,943,074

MAILING WRAPPER WITH BUILT-IN RECEPTACLE

Milton M. Heyman, New York, N. Y.

Application February 15, 1932. Serial No. 592,936
12 Claims. (Cl. 229—16)



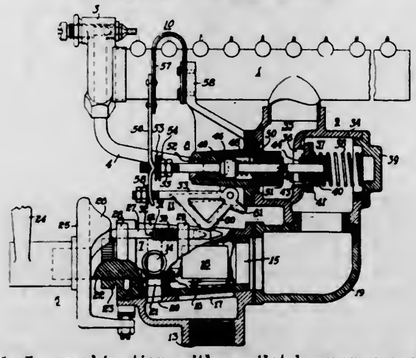
1. In a combined mailing wrapper and receptacle, a self-sustaining, knock-down, tubular receptacle formed of a single blank of sheet material and having side walls, end walls, and closure flaps; at least one wall of said receptacle being provided with an integral extension whose configuration and size are such as to permit it to be wrapped around the receptacle to form a complete enclosure therefor the opposed surfaces of the receptacle and said integral extension contacting in such manner as to permit unfolding of said extension from the receptacle.

1,943,075

VALVE MECHANISM FOR MAIN AND PILOT BURNERS

Ernest J. Horton, Pittsburgh, Pa., assignor to Ruud Manufacturing Company, a corporation of New Jersey

Application May 3, 1933. Serial No. 669,182
11 Claims. (Cl. 158—117.2)



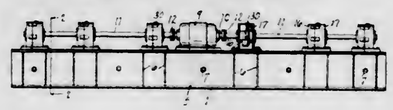
1. In combination with a pilot burner, a main burner, and a manually operated valve having an inlet to which a fuel supply line may be connected and a plurality of outlets, of a valve connected to one of the outlets of said manually operated valve disposed to control the flow of fuel to the pilot burner, a valve connected to another of the outlets of said manually controlled valve disposed to control the flow of fuel to the main burner, means operated by said manually operated valve to open and hold open the pilot burner valve, and means responsive to the heat developed by said pilot burner for opening said main burner valve and releasing said pilot valve holding means to a position in which said valves may close upon the extinguishment of the pilot burner.

1,943,076

APPARATUS FOR WORKING CONCRETE AND THE LIKE

Corwill Jackson, Ludington, Mich.

Application October 22, 1932. Serial No. 639,067
16 Claims. (Cl. 74—14)



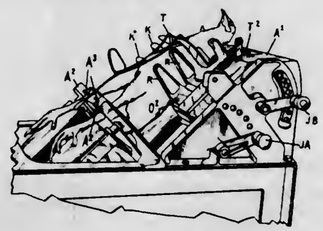
1. The combination with an elongated bed piece, of a motor mounted centrally on said bed piece and provided with a shaft extending at both ends of the motor, a plurality of spaced housings mounted on said bed piece and provided with spaced bearings for said shaft, said housings having packings coacting with said shaft at the outer side of said bearings and being adapted as lubricant chambers, and unbalancing weight units disposed within said housings and each comprising a relatively fixed member and a relatively adjustable member disposed side by side between said bearings and having unbalancing weights, the adjustable member being rotatable on said shaft, said housings being provided with openings provided with closures permitting the introduction of a key for manipulation of the adjustable member from the outside of the housings.

1,943,077

POULTRY-DRESSING MACHINE

Ernest D. Jansen, deceased, late of Albany, N. Y., by Agnese C. Jansen, administratrix, Albany, N. Y., assignor to Draw-Trim Corporation of America, Albany, N. Y., a corporation

Application July 17, 1929. Serial No. 379,020
25 Claims. (Cl. 17—11)



1. A machine for dressing poultry, comprising a cutter movable into and out of the body of the fowl, a separately operating gripper also movable into and out of the body of the fowl, and a common operating means acting on said cutter and gripper in timed relation.

1,943,078
PROCESS FOR THE RECOVERY OF INDENE
Leopold Kahl, Charlottenburg, Germany
No Drawing. Application August 25, 1933, Serial No. 686,774, and in Germany September 9, 1932
2 Claims. (Cl. 260—168)

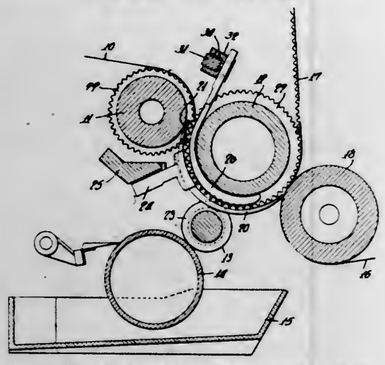
1. A process for the recovery of indene from indene-containing tar oils, wherein the concentration of indene in the said tar oils is increased up to about 80% by fractional distillation, the fraction with this indene content cooled down to about −25° C. and the indene which crystallizes out separated in a centrifuge which is maintained at about the same low temperature.

1,943,079
ELECTRICALLY DRIVEN CLOCK
Herbert Kienzle, Villingen, Germany
Application January 8, 1930, Serial No. 419,346, and in Germany January 12, 1929
13 Claims. (Cl. 58—26)



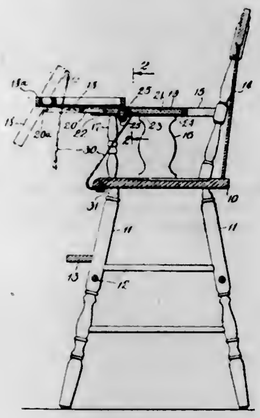
1. The combination with a clock having an electric operating motor, which latter may cease operation, and auxiliary means for operating said clock when said motor ceases, of means for periodically releasing said first means for operation while said motor is operating.

1,943,080
CORRUGATOR
Samuel M. Langston, Wenonah, N. J.
Application April 21, 1933. Serial No. 667,165
7 Claims. (Cl. 154—30)



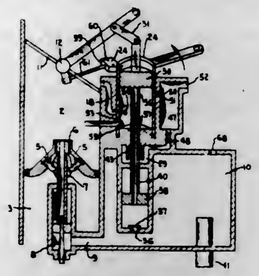
1. A machine for making corrugated paper, including a corrugating roller, an adhesive applying roller adjacent thereto but spaced therefrom for applying adhesive to the crowns of said paper, said corrugating roller being provided with one or more circumferential grooves, and guide members in said grooves for guiding said corrugated paper away from the corrugated surface of said corrugating roller and in contact with said adhesive applying roller.

1,943,081
CHAIR
Victor Leibo, Ridgefield Park, N. J.
Application August 10, 1933. Serial No. 684,494
8 Claims. (Cl. 155—127)



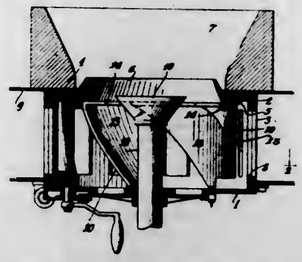
1. In a chair, a tray, means for slidably connecting the tray with the chair to move in a plane substantially paralleling the seat of the chair, and means included in the forward portion of said first named means for pivotally connecting the tray, whereby the tray may be moved into substantially vertical and advanced position.

1,943,082
CARBURETOR
Russell E. MacKenzie, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application January 30, 1932. Serial No. 589,817
10 Claims. (Cl. 261—49)



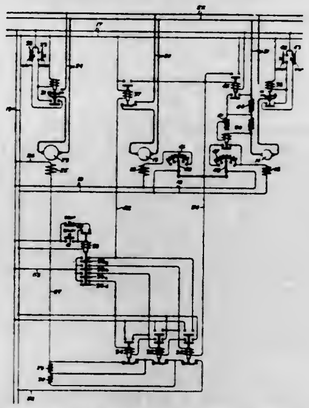
1. A carburetor comprising a casing having a mixing passage with an air inlet thereto, means to supply fuel to said passage, a throttle controlling flow through said passage, means to regulate the fuel-air ratio in said passage, and means operatively connecting said regulating means and said throttle, said connecting means including means acting upon a decrease in the ratio of air to fuel to move said throttle toward an open position and including means acting upon a further decrease in the ratio of air to fuel to move said throttle toward closed position.

1,943,083
AIR REGISTER
James McDonald, Weehawken, N. J., and George B. Dahl, Richmond Hill, N. Y., assignors to Todd Dry Dock, Engineering & Repair Corporation, New York, N. Y., a corporation of New York
Application May 18, 1932. Serial No. 612,010
5 Claims. (Cl. 158—1.5)



1. The combination with a liquid fuel burning furnace including an air register having a cylindrical wall provided with a plurality of ports, a ported control ring to co-operate with said ports, and an axially disposed fuel atomizing burner, of a series of dished vanes mounted in fixed relation to said ports in said register and curved inwardly toward said burner, so as to impart a centripetal effect to air streams whirling through said register.

1,943,084
CONTROL SYSTEM
Francis Mohler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 15, 1931. Serial No. 544,521
9 Claims. (Cl. 242—75)

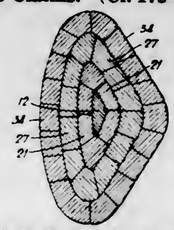


1. In combination with a strip of material, a mill motor for operating upon the material, a reel motor for winding the finished strip, a variable voltage generator for supplying said motors, means for decreasing the voltage of said generator to stop said motors, and means responsive to an operation of said voltage decreasing means for disconnecting said mill motor from said generator independently of said reel motor so that said reel motor remains connected to said generator and is thereby energized to maintain tension in the strip.

1,943,085
COATING MASONRY
Karl Müller, Stuttgart, and Eugen Hutsenlaub, Stuttgart-Zuffenhausen, Germany, assignors to Firma Paul Lechler, Stuttgart, Germany
No Drawing. Application October 14, 1931 Serial No. 568,876
1 Claim. (Cl. 91—68)

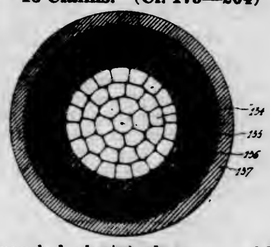
A structural element comprising a main portion consisting of masonry and a coating of asphalt of substantial thickness applied thereto, said coating of asphalt containing fatty acid pitch and asbestos, and a layer of sand pressed into said asphalt coating and completely covering the surface thereof whereby sun ray absorption is reduced.

1,943,086
ELECTRICAL CABLE AND METHOD OF MANUFACTURE
Edgar W. McKnight, Bayonne, N. J., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application July 2, 1932. Serial No. 620,607
19 Claims. (Cl. 173—264)



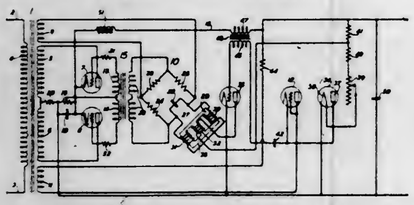
1. A stranded electrical conductor comprising a core and a plurality of overlying layers of initially round strands, which layers have been individually rolled to compress and change the shape of the round strands and give to each layer throughout its entire periphery a substantially smooth outer surface free from deep valleys.

1,943,087
ELECTRICAL CABLE AND METHOD OF MANUFACTURE
Frank M. Potter, Rome, N. Y., and Edgar W. McKnight, Bayonne, N. J., assignors to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application May 25, 1933. Serial No. 672,860
18 Claims. (Cl. 173—264)



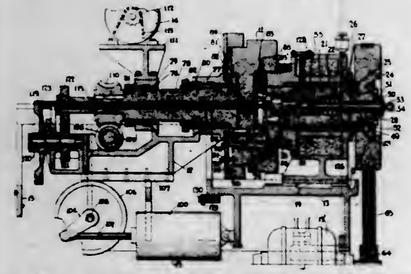
1. A stranded electrical power cable comprising a core and a plurality of overlying conducting layers, each layer comprising a plurality of helically arranged strands having a substantially smooth outer surface free from projecting ridges, in which all of the strands are laid in the same general helical direction and in which the contact angle of lay of the strands in each layer differs from the contact angle of lay of the strands in an adjacent layer at the contacting surfaces.

1,943,088
RECTIFIER SYSTEM
James R. Power, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 1, 1932. Serial No. 631,353
8 Claims. (Cl. 175—363)



6. In a regulator system, a direct current load circuit, an alternating current supply circuit, means comprising a rectifier connected to the supply circuit for supplying rectified current to the load circuit, a space discharge device having a control circuit and an output circuit, means for controlling the device control circuit according to the load circuit voltage, means controlled according to the output from said device for governing said rectifier to maintain substantially constant voltage on the load circuit, and means for varying said means controlled according to the output from the device in accordance with the rate of change of the load on the load circuit to prevent hunting action.

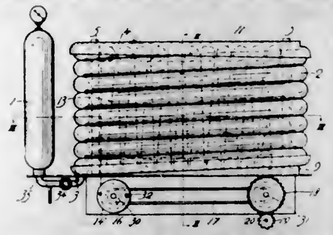
1,943,089
BRAKE DRUM SWAGING MACHINE
Ralph H. Rosenberg, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 12, 1930. Serial No. 467,500
33 Claims. (Cl. 153—48)



1. In a machine of the class described, work clamping means for engaging an outer peripheral surface of a work piece, hammering means and rotating actuating means therefor for swaging an internal face of the work, and means for rotating the clamping means and hammer actuating means to swage the work piece over its entire internal peripheral face.

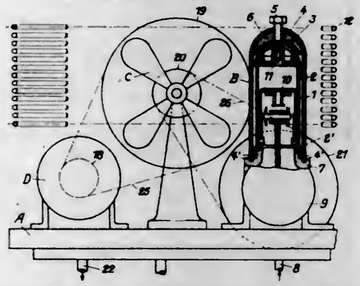
1,943,090
DEVICE FOR ACCUMULATING POWER
Erik Gustaf Nicolaus Salenius, Stockholm, Sweden, assignor to Misstress Elise Samalia Salenius, Stockholm, Sweden
Application July 6, 1929, Serial No. 376,481, and in Sweden April 1, 1926
3 Claims. (Cl. 60—57)

1. A device for accumulating and delivering power, wherein, the tube, which comprises a suitable number of windings, is mounted between two supports movable to and from each other, the said supports being guided by suitable guides and adapted to guide the windings when they are moved close to or distanced from one another, said supports being movable towards each other by the action of ropes running on pulleys located



on the supports, the ends of the said ropes being fixed each to one stationary roller, the said rollers being rotatable and adapted to act upon the driving member, for the purpose that the ropes may be wound on to the rollers at the rotation of the same and thus approach the supports to one another and thereby compress the tube.

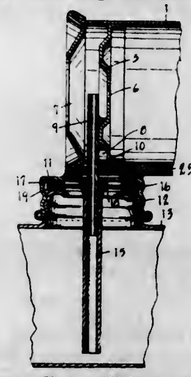
1,943,091
COMPRESSOR
Wilhelm Kurt Schmidt, Berlin, Germany, Application October 24, 1931, Serial No. 570,897, and in Germany October 28, 1930
1 Claim. (Cl. 230—202)



A compressor comprising a crank case having its top edge formed with a cylindrical groove, a plain tubular cylinder having its bottom edge seated in said groove, a plain substantially hemispherical cover seated on the top edge of said cylinder, a piston mounted in said cylinder for axial reciprocating motion, a horse-shoe strap having its free ends anchored in said crank case and a screw bolt extending across the middle portion of said strap and bearing on said cylinder cover so as to form together with said strap the sole coupling means for said crank case, cylinder and cylinder cover.

1,943,092
SPRAYER
Rome C. Seyforth, Lowell, Mich., assignor to Lowell Manufacturing Company, Lowell, Mich.
Application June 3, 1932. Serial No. 615,129
10 Claims. (Cl. 299—88)

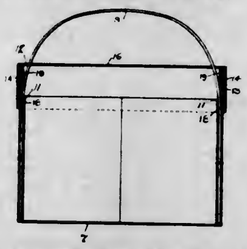
10. In a sprayer the combination of an air pump comprising a cylinder provided with an air discharge opening, a cap secured to the under side of said cylinder, an atomizing tube operatively associated with said air discharge opening and depending through said cap with its lower end terminating adjacent the plane of the lower edge of the cap, a receptacle having a neck adapted to receive a closure and detachably engaging said cap on said pump, and a



liquid tube depending within said receptacle and provided with a head at its upper end resting on the neck thereof, said liquid tube and atomizing tube having a slip connection when the receptacle is in engagement with said cap.

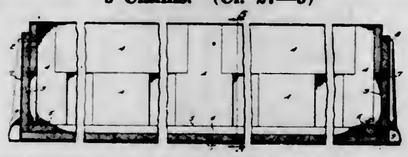
CARNEGIE LIBRARY OF ATLANTA

1,943,093
BASKET COVER
Elroy P. Sherman, Ashtabula, Ohio, assignor to The Ashtabula Corrugated Box Company, Ashtabula, Ohio, a corporation of Ohio
Application December 2, 1932. Serial No. 645,374
5 Claims. (Cl. 229—43)



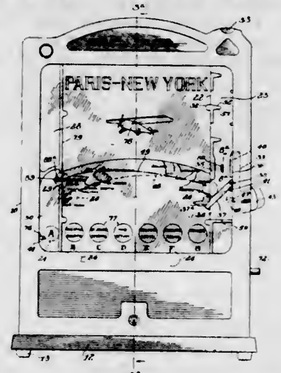
1. A basket cover comprising a top, side and end flanges adapted to fit over the top of a basket, a transverse slot in said top for the reception of a basket handle, a liner in said cover adjacent said side and end flanges and adapted to abut the top edges of a basket, and tabs on the side flanges in line with said transverse slot and adapted to be inserted within the walls of a basket.

1,943,094
BURIAL CASE
Mon Smysor, Cincinnati, Ohio
Application April 10, 1933. Serial No. 665,354
3 Claims. (Cl. 27—5)



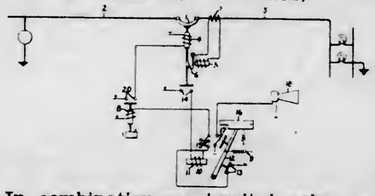
1. A burial case, comprising, a box-like receptacle of wooden side, end and bottom panels, the panels forming the side and end walls interiorly reinforced by planking in truss assembly and the reinforcement having a continuous top edge extending above the corresponding edges of the wall panels and therewith forming a rabbeted top edge of the receptacle for a mating connection with the cover, and a sheet metal sheathing exteriorly enclosing the receptacle and the rabbeted top edge thereof.

1,943,095
AMUSEMENT DEVICE
Herman Steinmetz, Rochester, N. Y., assignor to Advance Machine Co., Chicago, Ill., a corporation of Illinois
Application April 12, 1930. Serial No. 443,859
10 Claims. (Cl. 273—108)



3. In an amusement device, a frame, guide means carried by the frame forming a vertically disposed passage for a projectile including a transparent sheet for rendering the projectile visible when driven into said passage, a guide for directing the projectile in a substantially vertical path under the action of gravity, said guide embodying means by which the projectile is intermittently interrupted in its downward movement and driving means for the projectile arranged to strike the latter during its descent through said guide and adapted to project it transversely of the path into said passage.

1,943,096
AUTOMATIC RECLOSING CIRCUIT BREAKER SYSTEM
James N. Stewart, Birmingham, Ala., assignor to General Electric Company, a corporation of New York
Application December 2, 1932. Serial No. 645,435
9 Claims. (Cl. 175—294)



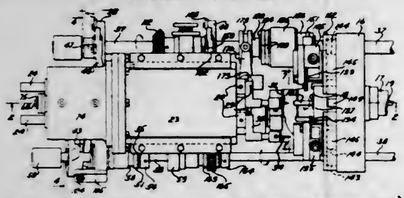
1. In combination, a circuit breaker, means for opening said circuit breaker, means for closing said circuit breaker including a relay having a winding and a movable member normally in a predetermined position and arranged to be operated from said predetermined position to a second position in response to the energization of said winding, means responsive to the opening of said circuit breaker for effecting the en-

ergization of said winding, means controlled by said member when moved to said second position for effecting the closing of said circuit breaker and the deenergization of said winding, means for moving said member from said second position when said winding is deenergized, and means controlled by the movement of said member from said predetermined position to said second position for effecting the movement of said member from said second position to a third position in which said relay is rendered inoperative to effect a reclosure of said circuit breaker in response to a subsequent opening thereof.

1,943,097
ARTICLE WORKING APPARATUS

John S. Stull, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 18, 1930. Serial No. 489,509
19 Claims. (Cl. 29—56)



1. In an article working apparatus, article holding means, a plurality of working tools adjacent the article and movable along endless paths about individual axes into operative alignment with the article, means for periodically moving each of the tools into alignment with the article, means for causing a relative longitudinal advance between the aligned tool and the article to engage the same operatively, and means for causing relative movement between the advancing tool and the article holding means to cause a working of the article.

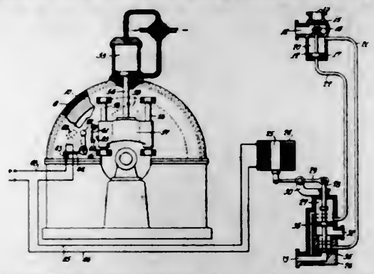
12. In an article working apparatus, article holding means, a plurality of working tools adjacent an end of the article, means for periodically revolving the tools about their individual fixed axes into operative alignment with the article and thereafter effecting a predetermined longitudinal advance of the tool into operative engagement with the article, a plurality of working tools disposed laterally of the axis of rotation of the article, means for moving the last mentioned tools to and from operative engagement with the article at a predetermined rate of speed, means operatively associated with said tool moving means effective for accelerating and decelerating the predetermined rate of advance and retraction of the tools relative to the article in timed relation with the longitudinal advance of the tools into alignment with the article, and means for rotating the article holding means to cause a working of the article by the engaged tool.

1,943,098
CENTRIFUGAL SEPARATOR

Gustav ter Meer, Munich, Germany, assignor to Albert T. Otto & Sons, New York, N. Y., a corporation of New York

Application April 14, 1932, Serial No. 605,152, and in Germany May 13, 1931
7 Claims. (Cl. 210—70)

1. A centrifugal machine having an inlet valve, an electromagnet for controlling the operation of said valve, a float pivotally mounted in the interior of said machine, a counterweight movable with said float and adapted to move said float away from the material being treated and into inactive position when said float has reached

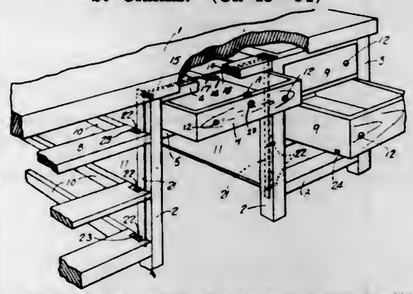


a predetermined position, and a switch operated by said counterweight, and in the electric circuit of said electromagnet.

1,943,099
LOCKING DEVICE

Fred W. Tobey, Grand Rapids, Mich., assignor to The Macey Company, Grand Rapids, Mich., a corporation of Michigan

Application October 31, 1932. Serial No. 640,434
20 Claims. (Cl. 45—94)

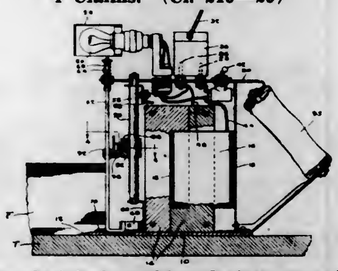


1. In a drawer lock, a drawer provided with a key lock having a latch bolt, a second drawer disposed at one side of said first mentioned drawer provided with a stop, means for locking said second drawer during the locking movement of said key lock comprising a lever operable by the latch bolt of said key lock, and a bar operatively connected with said lever and provided with means adapted for engagement with said stop during the locking movement of said key lock.

1,943,100
ELECTRICAL MARKING DEVICE

Morley C. Walter, Minneapolis, Minn.

Application December 16, 1929, Serial No. 414,393
Renewed August 23, 1933
4 Claims. (Cl. 219—29)



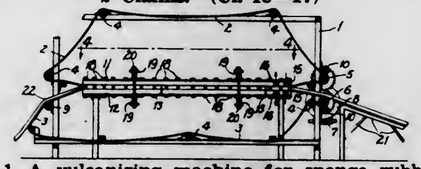
4. An electrical marking device, comprising a base member, a transformer carried by said base member having primary and secondary windings,

a support mounted above said transformer, a resistance element for marking extending between said support and said base at the front of the device, means for connecting said resistance element with the secondary winding, and means for varying the effective length of said resistance element.

1,943,101
VULCANIZING MACHINE

George H. Wheatley, Fond du Lac, Wis.

Application October 22, 1930. Serial No. 490,366
2 Claims. (Cl. 18—17)



1. A vulcanizing machine for sponge rubber comprising at least one pair of plates, means for holding said plates apart in spaced relationship, means for maintaining said plates at substantially uniform temperature throughout their opposing surfaces, an upper and a lower endless fabric carrying belt, said belts passing between said heating plates, means for moving said carrying belts between said heating plates at a substantially uniform speed and in the same direction, and at least one of said carrying belts having thereon a mold adapted to produce an imprint upon the material to be vulcanized.

1,943,102
GREASE PUMPING APPARATUS

Joseph W. Woodruff, Elizabeth, N. J.

Application December 12, 1930
Serial No. 501,752
2 Claims. (Cl. 103—42)

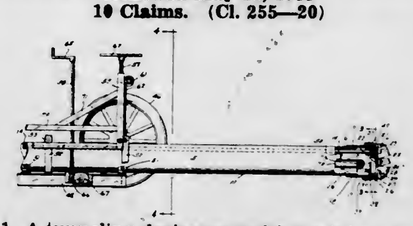


1. Pumping apparatus for heavy viscous material comprising a cylinder, a valved piston reciprocable therein intermediate its ends and forming an inlet chamber at one end and an outlet chamber at the other end, said outlet chamber having a discharge opening and an outlet check-valve therein, means for reciprocating said piston, a check-valve controlled inlet for said inlet chamber, so that on each upward stroke of said piston the material being pumped is drawn into said inlet chamber, on the downward stroke a portion of the material in the inlet chamber is forced into said outlet chamber, and on the next upward stroke said material in the outlet chamber is ejected through said discharge opening, said inlet chamber having a maximum working capacity several times greater than said outlet chamber so as to receive a quantity of material in excess of the maximum working capacity of the outlet chamber between the limits of stroke of the piston, and the ends of said piston in the inlet chamber having an effective area several times greater than the end of the piston in said outlet chamber so as to draw material at low pressure into said inlet chamber in excess of the amount required to fill said outlet chamber to its maximum working capacity and to eject the material from said outlet chamber at a substantially higher pressure respectively, and a relief valve for releasing the excess material from said inlet chamber when said outlet chamber is completely filled.

1,943,103
TUNNEL EXCAVATING MACHINE

George J. Benson, Cleveland, Ohio

Application May 29, 1930, Serial No. 456,849
Renewed May 13, 1933
10 Claims. (Cl. 255—20)

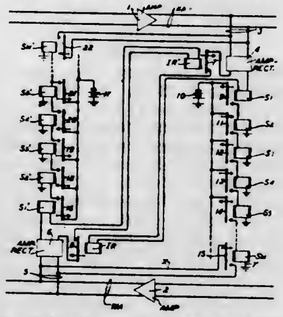


1. A tunneling device comprising a tube, a supporting frame therefor, a cutter rotatably mounted on one end of the tube, a source of power on said tube for driving the cutter, the tube having an elongated toothed slot, means including a gear for engaging the teeth of the slot for adjusting the tube on said frame and means for lifting bodily the tube and frame vertically.

1,943,104
TRANSMISSION CONTROL IN SIGNALING SYSTEMS

Bjorn G. Bjornson, Brooklyn, N. Y., and Doren Mitchell, Martinsville, N. J.; said Mitchell assignor to American Telephone and Telegraph Company, a corporation of New York, and said Bjornson assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

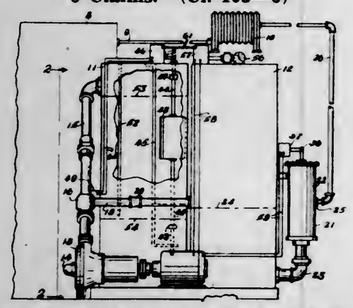
Application March 27, 1931. Serial No. 525,752
3 Claims. (Cl. 179—170)



1. In combination, two two-way circuits, two oppositely directed one-way paths for transmit-

ting signals in opposite directions between said circuits, a mechanical relay which when operated disables one of said one-way paths at a certain point therein, control means connected to the other one-way path and operatively responsive to transmission of signals therein, and a chain of mechanical relays operating in sequence in response to operation of said control means to cause operation of the first-mentioned relay, said first-mentioned relay and the relays in said chain having such operating times as to delay the disabling of said one path in response to transmission of signals in said other path until the time at which echoes or reflected waves due to said signals begin to arrive at said certain point in said one path.

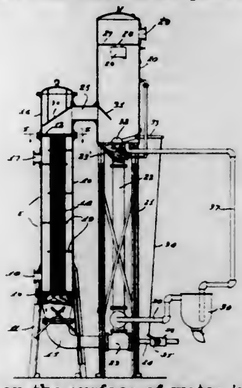
1,943,105
VACUUM CONDENSATION SYSTEM
Clayton D. Breese, Wyoming, Ohio, assignor to The Breese Brothers Company, Cincinnati, Ohio, a corporation of Ohio
Application September 14, 1932
Serial No. 633,139
6 Claims. (Cl. 103—6)



1. Vacuum condensation means for steam heat systems and comprising a circulation tank, a condensation tank communicating with the circulation tank, a condensation chamber communicating with the condensation tank and the return pipe of the system and serving as the primary condensation receiver, vacuum creating means for drawing air and condensation from the system into the condensation chamber, condensation tank and circulation tank successively and means associated with the condensation chamber for starting operation of the vacuum creating means upon accumulation in said chamber of a selected volume of condensation and for stopping such operation upon evacuation of said chamber.

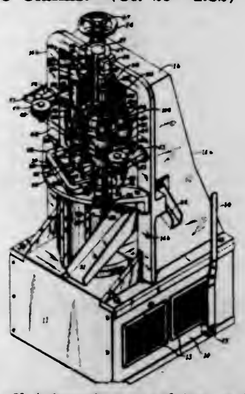
1,943,106
EVAPORATOR
Clifford L. Burnham, Chicago, Ill.
Application July 6, 1931. Serial No. 548,896
2 Claims. (Cl. 202—197)

1. A steam generator comprising a vertical shell having crown-sheet means therein defining a bottom chamber for incoming water, a top chamber for outgoing steam, and an intermediate chamber for the flow of a heating medium, tubes connecting said crown-sheets and opening into the bottom and top chambers, said shell being provided with an upper inlet and a lower outlet for a heating medium, another shell defining a flash chamber positioned extending above the top chamber of said first shell, said second shell having an inlet connection with said first shell for steam, and defining a reservoir below the inlet for water, said second shell having an upper outlet for steam and being provided with means interposed between its inlet and its outlet to reject water particles from steam, a vertical conduit connected extending between the bottoms of said first and second shells adapted to normally provide a water leg, another conduit connected extending between said second shell and a lower portion of said first conduit adapted to by-pass



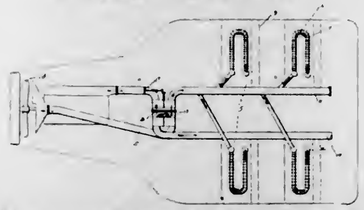
solid matter on the surface of water in said reservoir and to provide a path in parallel fluid flow relation to said first conduit, means connected in said second conduit adapted to entrap sludge passing therethrough, a connection in fluid communication with said first shell for make-up water, and means connected to said make-up connection to maintain a predetermined height of water in the reservoir.

1,943,107
VERTICAL AUTOMATIC SHELL-TRIMMING MACHINE
Zenas P. Candee, Watertown, Conn., assignor to The Waterbury Farrel Foundry & Machine Company, Waterbury, Conn., a corporation of Connecticut
Application June 11, 1931. Serial No. 543,620
18 Claims. (Cl. 29—1.32)



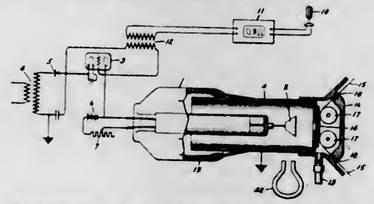
2. In a shell-trimming machine, a base, a rotary main shaft, a shell-carrying rotary mandrel supported by said main shaft and rotatable therewith, a stationary elongated horizontal arcuate cutter blade located in the arcuate path of said shell for cutting off the end thereof as it passes along the length of said blade, and means for driving said main shaft to cause said shell to travel by said cutter blade.

1,943,108
MOTOR VEHICLE HEATING SYSTEM
Haldwell S. Colby, Wellsville, N. Y.
Application December 26, 1928
Serial No. 328,542
3 Claims. (Cl. 237—12.3)



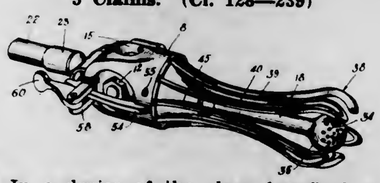
1. In a motor-driven vehicle, an internal combustion driving engine, a passenger body, radiators in said passenger body, a regenerative heat exchanger comprising a rotor, means for selectively passing hot exhaust gases from the driving motor through the rotor, and for passing air through the rotor to be heated, means for conducting the heated air from said rotor to said radiators, and means driven by said exhaust gases for rotating said rotor.

1,943,109
CATHODE RAY SOUND RECORDING
William D. Coolidge, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 18, 1931. Serial No. 557,935
10 Claims. (Cl. 179—100.3)



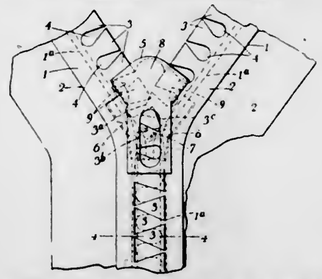
1. Apparatus for recording electrical variations comprising a cathode ray tube constructed to eject cathode rays therefrom, said tube having a narrow window through which the rays are ejected on a member sensitive thereto, and having a line cathode arranged parallel with said window.

1,943,110
VAGINAL DOUCHE
Mitchell S. Corbett, Chicago, Ill.
Application September 10, 1932
Serial No. 632,570
5 Claims. (Cl. 128—239)



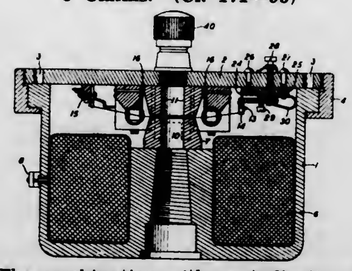
1. In a device of the class described, a discharge nozzle, distending means, valve means controlling flow to said discharge nozzle, expanding means for said distending means, and operating means including independent portions for simultaneously operating said valve means and expanding means.

1,943,111
SLIDING CLASP FASTENING
Charles John Crawford, London, England, assignor of one-half to Thomas Bateman Powell, Surrey, England
Application March 28, 1930, Serial No. 439,619, and in Great Britain April 8, 1929
27 Claims. (Cl. 24—205)



1. A sliding clasp fastening of the kind described comprising strips having interpenetrating interlocking fastening pieces the fastening pieces on each strip being spaced from each other and formed with relatively narrow neck portions supporting considerably wider head portions; and a slider movable along said strips for joining together or separating said strips, said pieces being shaped and arranged so as to interlock positively by interdigitated relationship, and said slider having means for causing such pieces to be successively rotated about axes parallel to the line of junction of the strips for the purpose of positively interlocking such pieces.

1,943,112
LIGHT VALVE
Austen M. Curtis, East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a corporation of New York
Application November 26, 1930
Serial No. 498,257
3 Claims. (Cl. 171—95)

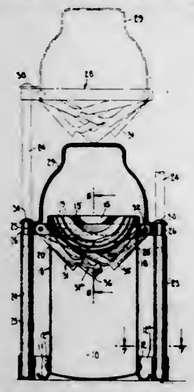


3. The combination with an indicating device having a tensioned movable element suspended in a magnetic field of a bi-metallic support for said element, said support responsive to temperature changes in such manner as to maintain constant the original tension in said movable element.

1,943,113
FOOD SLICER
Charles Daum, New York, N. Y.
Application April 25, 1931. Serial No. 532,820
2 Claims. (Cl. 146—160)

1. A slicer for food products comprising a hollow base, the upper surface of which is shaped

substantially to conform to the lower half of a food product, the said surface having a series of parallel slots formed therealong, and a slicing mechanism for such food product comprising a series of cutting elements of different size and depth, and having piercing points at the lowermost point of each of the same, and means for

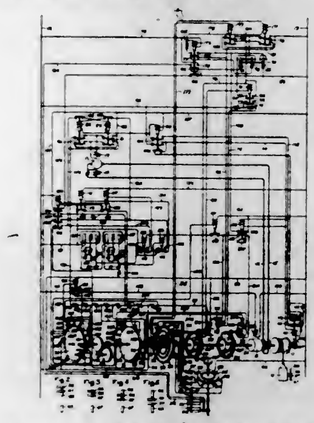


causing said slicing member to act on the food products carried on said base, the cutting elements being adapted to pass through the slotted portion and enter into the hollow of the base portion, guide members disposed on said base, and means reciprocable in said guide members and carrying said cutting elements for displacement with respect to the base.

1,943,114
CONTROL SYSTEM
John Eaton, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 20, 1931. Serial No. 509,973
36 Claims. (Cl. 172—152)

11. A control system for elevators and the like, comprising a main electric driving motor for the elevator, a control means for said motor driven by said motor, an auxiliary motor differentially connected to drive said control means jointly with said main driving motor, a manually operated switch for starting said auxiliary motor, floor selector means driven by said auxiliary motor for stopping said auxiliary motor, whereby said control means is driven by said main driving motor to decelerate the elevator, means associated with said floor selector for preselecting the floor at which a stop is to be made and auxiliary means in the path of travel of the elevator for controlling said resistances to still further decelerate the elevator.

30. A control system for elevators and the like, comprising a main driving motor for the elevator, switches and resistances for controlling said main driving motor, means for controlling said switches and said resistances, a driving connection between said control means and said main driving motor including a pair of differential devices, an advance motor connected to an element of one of said differential devices so as to drive said control means jointly with said main driving motor, a correction motor connected to an element of the other of said differential devices so as to drive said control means jointly with said main driving motor, means controlled by said control means for operating said correction motor to establish a predetermined relation between said control means and said elevator, a manually operated switch for starting said advance motor to start said main driving motor and means driven by said advance motor for stopping said advance motor to decelerate said main driving motor in accordance with its own operation.



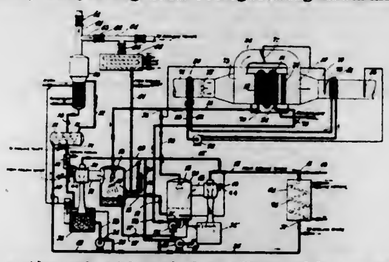
36. A control system for elevators and the like, comprising a main driving motor for the elevator, an auxiliary motor, control means for said auxiliary motor movable to a predetermined position to open the circuit of said auxiliary motor, a differential gear, connections between the input elements of said differential gear and said motors, a connection between the output element of said differential gear and said control means, switching means in circuit with said control means and said auxiliary motor for closing the circuit of said auxiliary motor in the event that said control means is in a position to complete the circuit of said auxiliary motor, and means responsive to the stopping of said elevator for closing said switching means whereby said auxiliary motor is operated to turn said controller to said predetermined position.

1,943,115
ELECTRICAL INSULATION FOR MAGNETIC BODIES
William C. Ellis, Malverne, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 24, 1933
Serial No. 672,643
8 Claims. (Cl. 175—21)

1. A magnetic body comprising finely divided particles of a magnetic material and insulation between the particles produced by mixing the magnetic particles with colloidal clay, milk of magnesia and sodium silicate in a volatile liquid and evaporating the mixture to dryness.

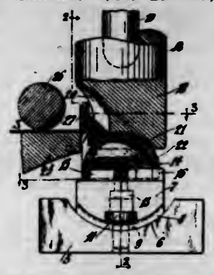
1,943,116
REFRIGERATING SYSTEM
Henry O. Forrest, West Englewood, Lee Van Horn, Elizabeth, and Percy C. Keith, Short Hills, N. J., and Robert B. Crawford, Brooklyn, N. Y.
Application March 14, 1932. Serial No. 598,558
8 Claims. (Cl. 62—170)

1. A method of cooling a refrigerating medium including the steps of subjecting said medium to the action of a medium having lower vapor pressure characteristics than said refrigerating medium, cooling said second medium and subsequently subjecting said refrigerating medium to



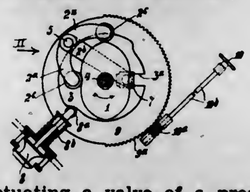
the action of said cooled medium of lower vapor pressure characteristics.

1,943,117
ARTIFICIAL EYES FOR DOLLS, MANIKINS, AND THE LIKE
Leo J. Grubman, Belle Harbor, Long Island, N. Y., assignor to Margen Corporation, New York, N. Y., a corporation of New York
Application October 17, 1931. Serial No. 569,411
2 Claims. (Cl. 46—40)



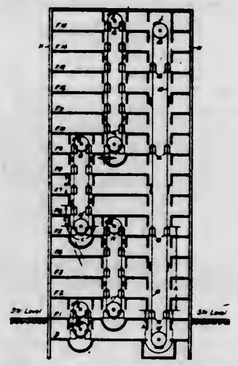
1. An artificial eye for dolls and the like consisting of an eye shell of thermo-plastic material having a pupil represented on the outer surface thereof, and eyelash forming strands impregnated with a thermo-plastic solution, and said solution constituting attaching means for the eyelash strands homogeneously incorporated in the structure of the eye shell wall.

1,943,118
VALVE GEAR FOR FLUID PRESSURE UNITS
Verena Winifred Holmes, Lenzie, near Glasgow, Scotland
Application November 7, 1930, Serial No. 494,018, and in Great Britain January 21, 1930
20 Claims. (Cl. 121—127)



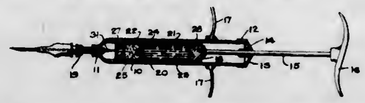
1. For actuating a valve of a pressure fluid unit, a valve gear comprising a rotary cam, lever means provided with a normally stationary fulcrum and adapted to be oscillated with substantially constant amplitude by said rotary cam, means for adjusting said fulcrum and an oscillatory valve-actuating cam adapted to be moved with substantially constant amplitude by said lever means through a range of effective movement which can be varied, so as to vary the period of valve actuation, by appropriately adjusting said fulcrum.

1,943,119
CIRCUITOUS ELEVATOR
Henry D. James, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 17, 1929. Serial No. 414,683
22 Claims. (Cl. 187—16)



1. In combination, means defining two adjacent hatchways, a plurality of cages movable in succession through the hatchways in a circuitous path, means for moving said cages, and means disposed at the extremities of the hatchways and movable in accordance with the movement of the cages for guiding said cages during their movement between hatchways, said guiding means comprising adjustable means for engaging and releasing said cages, and means for adjusting said cage engaging and releasing means while said cages are moving.

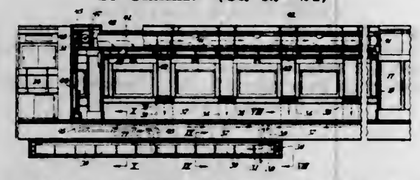
1,943,120
HYPODERMIC SYRINGE
Stuart Kabnick, Philadelphia, Pa.
Application May 21, 1930. Serial No. 454,356
10 Claims. (Cl. 128—218)



4. A cartridge for hypodermic syringes comprising a main tubular body member, a frangible partition located intermediate the ends and extending transversely of said member whereby to provide a pair of longitudinally spaced compartmental sections in said body member which are adapted to respectively receive a drug and a solvent therefor, a pierceable seal for closing the open end of the drug-receiving section, and a piston type of seal for closing the open end of the solvent receiving section.

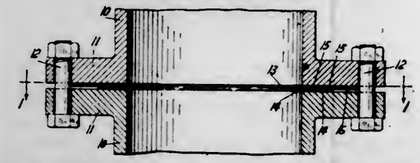
7. In a hypodermic syringe, in combination, a barrel, a plunger operatively associated with said barrel, and a cartridge including a pair of compartmental sections respectively adapted to contain a drug and a solvent therefor, said sections being maintained in separated sealed condition by an intermediate disruptible seal, said seal being disruptible upon actuation of said plunger.

1,943,121
AIR CONDITIONING FOR RAILWAY CARS
William F. Kiesel, Jr., Hollidaysburg, Pa.
Application November 12, 1931
Serial No. 574,512
13 Claims. (Cl. 62—24)



1. The combination with a railway car of means for cooling the air therein including an ice chamber and radiators outside of and adjacent the same, all thermoinsulatively housed in a common casing beneath the car, and means for the circulation of air from the interior of the car through said casing, in contact with said radiators, and back into the car.

1,943,122
GASKET
Arch H. Kinzel, Akron, Ohio
Application November 3, 1931. Serial No. 572,752
5 Claims. (Cl. 288—1)



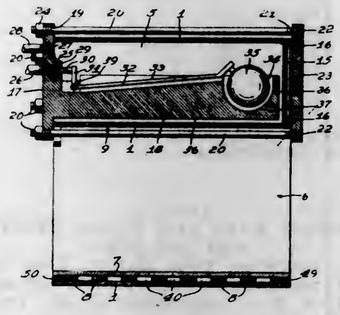
2. A gasket comprising a series of lengths of comparatively stiff, resilient sheet metal substantially U-shape in section embracing one another with the lengths in nested relation, and soft, resilient packing material between said lengths and entirely enclosed thereby in the spaces between the nested lengths.

1,943,123
PROCESS OF WELDING
Willy Kreutz, Duren, Germany, assignor to Felix Schull, Duren, Germany
No Drawing. Application October 9, 1931, Serial No. 567,982, and in Germany November 11, 1930
1 Claim. (Cl. 219—10)

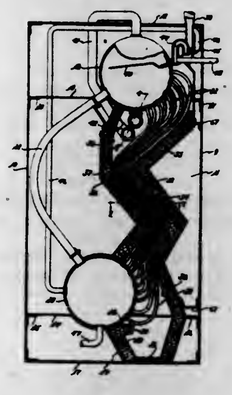
Process for electric welding work pieces without the formation of a ridge on the weld, which consists in subjecting the contacting faces of the work pieces to be welded, to the action of an electric current at welding temperature without pressing the contacting faces towards each other, and simultaneously passing a flame over the surfaces containing an excess of carbon for depositing carbon on the surfaces to be welded, continuing the passage of said current during the reduced melting point of the material resulting from the presence of the deposited carbon, until the faces are fused together, whereby a weld is produced without formation of ridges or slags at the weld.

1,943,124
REFRIGERATING UNIT
Richard W. Kritzer, Chicago, Ill., assignor, by mesne assignments, to Edwin W. Hammer, New York, N. Y.
Application February 20, 1929. Serial No. 341,525
7 Claims. (Cl. 62—95)

3. In a refrigerating system, a refrigerating unit comprising a float chamber and a freezing chamber, said freezing chamber comprising inner and outer shells disposed in spaced relation, a plurality of displacement means disposed between said inner and outer shells for providing a plurality of refrigerant liquid passageways communicating with said float chamber, displacement means disposed within said float chamber for providing a film of refrigerant liquid between the walls of the float chamber and said displacement means, and valve means for controlling the level of the refrigerant liquid within said float chamber.



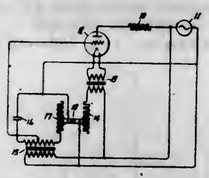
1,943,125
BOILER CONSTRUCTION
Charles N. Lawless and John Blackwood, Detroit, Mich.
Application May 31, 1932. Serial No. 614,416
5 Claims. (Cl. 122—331)



1. A boiler construction of the class described comprising: a pair of superimposed drums, in spaced relation to each other; a combustion chamber, a portion of each of said drums being exposed in said combustion chamber; tubes exterior of said combustion chamber connecting said drums in communication with each other; a plurality of tubes within said combustion chamber establishing communication of said drums with each other, said last mentioned tubes being formed sinuous between their ends; and a sinuous baffle formation embracing said last mentioned tubes.

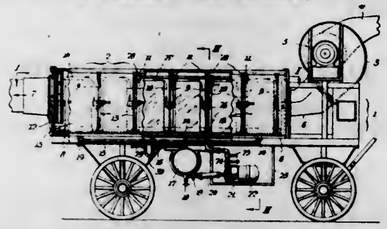
CARNEGIE LIBRARY OF ATLANTA

1,943,126
ELECTRIC TRANSLATING CIRCUITS
Paul Lenz, Berlin-Grunewald, Germany, assignor to General Electric Company, a corporation of New York
Application May 3, 1932, Serial No. 609,005, and in Germany May 20, 1931
5 Claims. (Cl. 175—363)



1. An electric translating circuit comprising a source of current, an electric valve provided with a thermionic cathode, a heating circuit for said cathode, a load circuit connected to said source through said valve, means including a variable impedance device for controlling the current transmitted through said valve, a variable impedance device for controlling the energization of said heating circuit, and means for simultaneously varying the impedances of said devices to maintain the temperature of said thermionic cathode substantially constant.

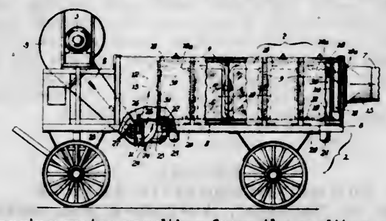
1,943,127
PORTABLE AIR COOLING APPARATUS
William J. Madden, Lansdowne, Pa.
Application October 20, 1932. Serial No. 638,730
6 Claims. (Cl. 62—133)



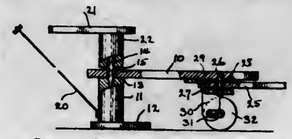
1. An air cooling unit including a cooling chamber adapted to be substantially filled with cakes of ice spaced longitudinally within the chamber, the interior surfaces of said cooling chamber defining with the surfaces of said ice cakes narrow passages for a current of air, spray nozzles directed downward between said ice cakes to form shower curtains across said air passages, and means for conducting ice water from the bottom of said cooling chamber to said spray nozzles, whereby, as the ice melts, water from said spray nozzles becomes the cooling medium for the air in the regions above and around said ice cakes.

1,943,128
PORTABLE AIR COOLING APPARATUS
William J. Madden, Lansdowne, Pa.
Application October 20, 1932. Serial No. 638,731
9 Claims. (Cl. 62—24)

1. A portable car cooling apparatus comprising a cooling chamber having a duct connection with the car to be cooled, said chamber being divided into compartments, each adapted to be substantially filled with ice, a blower for effecting a circulation of air through said chamber around said ice whereby the air is cooled by successive stages, a radiator in the air passage, said radiator being disposed below the bottom of said chamber and in advance of one end thereof, and means for discharging water resulting from the melting of the ice by gravity through said radiator.

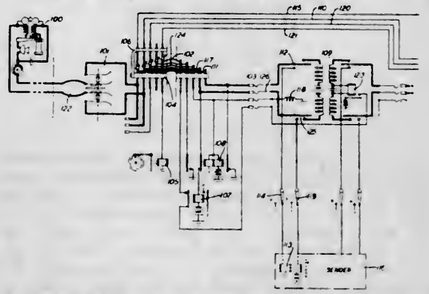


1,943,129
TOY
Clifford J. McLeod, Quincy, Mass.
Application June 17, 1931. Serial No. 544,939
19 Claims. (Cl. 46—45)



6. A toy figure having a flat, generally horizontal body having a bore therethrough near its forward end, a fore member supporting the forward part of said body, said fore member including a horizontal plate and an upstanding post secured thereto, a spindle extending upwardly from the top of said post and loosely through said bore, a head-piece mounted on the upper end of said spindle, a flat tail-piece pivotally mounted on said body beneath the rear portion thereof, said tail-piece having portions projecting laterally and rearwardly beyond the contour of said body, bearing members carried by said tail-piece, a shaft journaled in said bearing members, and a pair of wheels eccentrically mounted on said shaft.

1,943,130
TELEPHONE SYSTEM
Hugh D. MacPherson, West New Brighton, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 6, 1933. Serial No. 650,370
6 Claims. (Cl. 179—175.2)



1. In a telephone system, a calling subscriber's line having switching control means and a call charging device, a called subscriber's line, means controlled by said switching control means to establish and disestablish a connection from said calling line to said called line, means for

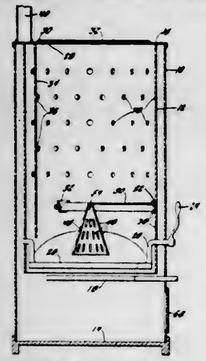
operating said charging device upon the response of said called subscriber, and a service complaint trunk associable with said calling line, said trunk having a tape recording means comprising means for recording signals transmitted by said switching control means, means for recording signals indicative of the operation of said charging device and means for recording the time when said signals are recorded.

1,943,131
MOLDED DECORATIVE ARTICLE
Lester O. Marsteller, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 25, 1933. Serial No. 653,552
7 Claims. (Cl. 41—35)



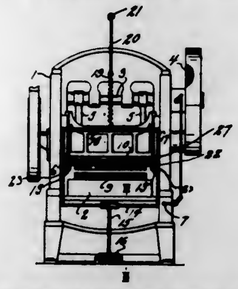
1. An article comprising a base of plastic composition molded with colorant and exhibiting metallic lustre with depth and relative permanence, said colorant comprising anodic aluminum.

1,943,132
INCINERATOR
Henry C. Maul, Detroit, Mich., assignor to Detroit-Michigan Stove Company, Detroit, Mich., a corporation of Michigan
Application October 21, 1930. Serial No. 490,137
6 Claims. (Cl. 110—18)



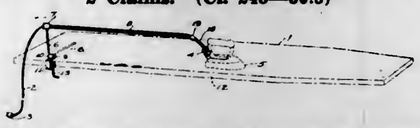
1. In an incinerator, a grate, an outer casing, a casing inside said outer casing and spaced therefrom and provided with a plurality of perforations in its wall, a flue in communication with the space between said outer casing and said inner casing and with the interior of the latter, a refuse receiving opening in communication with the interior of said inner casing, and means positioned within said inner casing to lead products of combustion from said grate to the space between said casings, and into proximity with portions of the refuse mass, said means including a hollow vessel supported in said inner casing by hollow arms extending from the vessel to the wall of said inner casing the spaces within the arms being in communication with the interior of the vessel.

1,943,133
DIE PLACING AND SHIFTING
Louis A. Mayle, Fremont, Ohio
Application September 11, 1933
Serial No. 688,981
10 Claims. (Cl. 164—24)



1. The combination with a press having a pair of opposing members and directing means for layers of fabric to be received between the members, of a track extending into the press adjacent the members, a carrier movable along said track into position adjacent the members, a die mounted directly on the carrier, sustaining means for the carrier locating the die clear of the layers of fabric at the members, and control means operable to bring the die to repose on the layers of fabric.

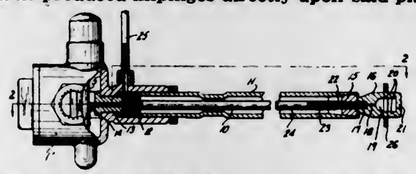
1,943,134
TAKE-UP DEVICE FOR FLEXIBLE CONDUCTORS
Albert McKesson, Chicago, Ill.
Application October 20, 1933. Serial No. 694,507
2 Claims. (Cl. 248—30.5)



1. A take-up device for flexible electric conductors comprising a base member adapted for attachment to a supporting surface, a bracket hinged on said base member, a hollow bearing member swiveled on the upper end of said bracket to form a guide for the conductor, and a coil spring adapted to surround a portion of the conductor with one end of the spring attached to the conductor, the other end of said coil spring being connected to said bearing member.

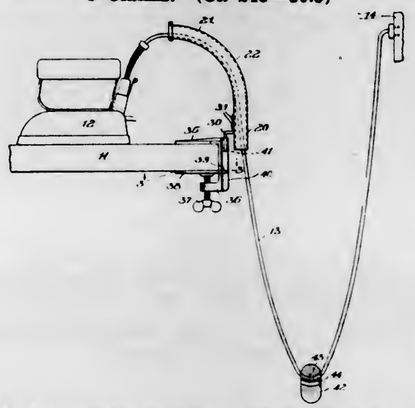
1,943,135
THERMOSTATIC PILOT BURNER
Clarence H. Morrow, Cleveland, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application June 22, 1932. Serial No. 618,732
3 Claims. (Cl. 158—113)

1. Thermostatic mechanism of the class described, comprising two cooperating thermostatic elements, one of which is formed of relatively expansible and the other of relatively non-expansible material, the expansible element having directly connected thereto a one-piece burner member comprising a body portion having forwardly extending arms and a central jet orifice and a plate attached to the outer ends of said arms in advance of said orifice, whereby the flame produced impinges directly upon said plate



and the heat thereof is communicated directly to the expansible thermostatic element, and an air guiding member of washer-like form surrounding said arms between said jet orifice and said plate.

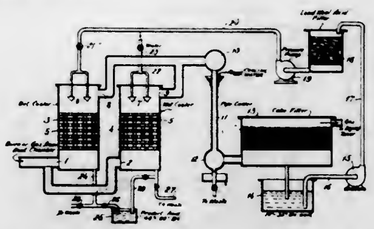
1,943,136
GUIDE AND TAKE-UP FOR ELECTRIC CORDS
Helen H. Moser, Rochester, N. Y.
Application July 26, 1932. Serial No. 624,890
5 Claims. (Cl. 248—30.5)



3. A guide for an electric extension cord connected to a movable electrical appliance, comprising a base member, a tubular guide member having a longitudinal opening therethrough of a cross-sectional size materially larger than that of said cord so that said cord may readily slide longitudinally through said guide member, said guide member extending upwardly and curving laterally, a slot in one side of said guide member, so that said cord may be placed in and removed from said guide member laterally through said slot, a pivotal connection between said guide and base member so that said guide and cord may move freely to follow the movements of said appliance, and means for moving the cord in one direction through said guide member to take up the slack in the portion of the cord between said appliance and said guide member.

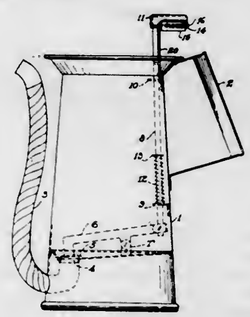
1,943,137
PROCESS OF COOLING AND PURIFYING BURNER GASES
Edwin J. Mullen, New Rochelle, N. Y., assignor to General Chemical Company, New York, N. Y., a corporation of New York
Application September 28, 1927
Serial No. 222,826
19 Claims. (Cl. 23—178)

13. The process of cooling and purifying burner gas which comprises passing hot burner gas through a tower in contact with a stream of sulfuric acid, and at intervals stopping the flow of acid and substituting a stream of water, while continuing the flow of burner gas, whereby any impurities deposited in the tower from the stream of acid will be washed out of the tower by the stream of water.



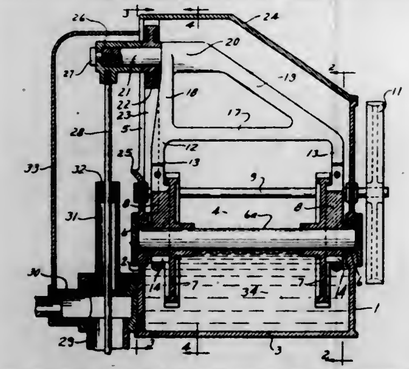
18. The process of cooling and purifying burner gas which comprises the step of contacting hot burner gas with sulfuric acid and so limiting the amount of the acid with respect to the gas affected in any single period of contact between the said acid and the said gas as to cause a concentration of said acid of at least 15° Baumé in such single period of contact, by effecting the transfer of heat from the hot gas practically wholly by evaporation of water from said acid into said gas.

1,943,138
MEANS FOR INDICATING THE OPEN AND CLOSED POSITIONS OF THE DISCHARGE MEANS OF A LIQUID MEASURE
Richard B. Munday, Oakwood, Ohio, assignor, by mesne assignments, to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a corporation of Ohio
Application March 18, 1932. Serial No. 599,737
3 Claims. (Cl. 221—16)



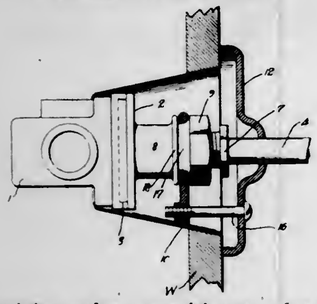
1. A liquid measure comprising a container, an outlet for the latter, a discharge spout connected to said outlet, a valve for said outlet, a lever arm for opening and closing said valve, a vertical push rod for operating said lever arm, a block pivoted to said rod, one face of said block displaying the word "Open" and another the word "Closed", a fixed element secured to said container, and means connected between the fixed element and the block for turning the block bringing the side bearing the "Open" designation to appropriate display position when the push rod is depressed to open the valve, and for bringing the side bearing the "Closed" designation to appropriate display position when the push rod is elevated to close said valve.

1,943,139
POWER HEAD FOR A PUMP
Philip A. Myers, Ashland, Ohio, assignor to The F. E. Myers and Bro. Company, Ashland, Ohio, a corporation of Ohio
Application February 12, 1931. Serial No. 515,365
15 Claims. (Cl. 74—14)



1. In a power head, a casing, a reciprocating member guided thereby, a shaft mounted in said casing for rotation, an eccentric adjacent each end of said shaft, and means operated by said eccentrics for causing the reciprocating member to reciprocate.

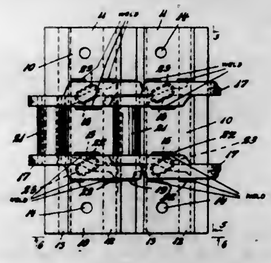
1,943,140
MIXING VALVE
Edward F. Niedecken, Milwaukee, Wis.
Application September 20, 1930
Serial No. 483,277
3 Claims. (Cl. 137—111)



1. A mixing valve comprising a valve casing, a removable screw cap threadedly connected to the valve casing and provided with a tubular extension, an operating spindle for the valve, a dial plate associated with the operating spindle and means for securing the dial plate in proper position and comprising an anchor clamp encircling and interengaged with said tubular extension of the screw cap and provided with a nut and a screw engaged with the dial and threaded to said nut.

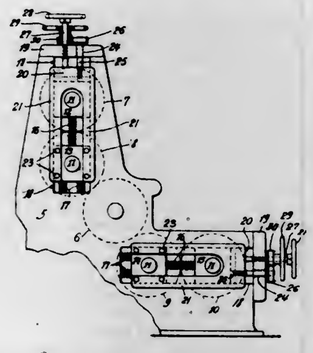
1,943,141
TRACTION BELT FOR TRACTORS
Ralph T. Osman, Milwaukee, Wis., assignor to Kochring Company, Milwaukee, Wis., a corporation
Application March 10, 1931. Serial No. 521,583
1 Claim. (Cl. 305—10)

A link section of the character described, comprising a shoe plate provided with transverse upstanding ribs defining a groove therebetween, and a plurality of links positioned edgeways relative to the said shoe plate, in engagement therewith and substantially parallel to each other, each of the said links being provided with reduced portions thereof adapted to overlap similar reduced portions of similar links mounted in a next succeeding link section of a series of link sections, each of the first mentioned links being secured to the said shoe plate by a rivet weld located



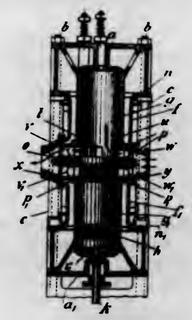
in and through the base of the above mentioned groove and on the edge face of the link which engages the shoe plate, at the approximate longitudinal center of the said edge face, and by a plurality of welds located in the angles formed by nonengaging faces of the first-mentioned links and a surface of the shoe plate with which the aforesaid edge-face of the link engages, on each side of the longitudinal center of the said edge face and substantially remote therefrom.

1,943,142
ROLLER MILL ADJUSTING DEVICE
Elmer P. Peters, Richmond Hill, N. Y., assignor to Kent Machine Works, Inc., a corporation of New York
Application July 14, 1932. Serial No. 622,384
3 Claims. (Cl. 308—60)



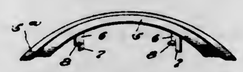
1. In a roller mill, a main frame, a fixed grinding roll mounted therein, an auxiliary frame movably mounted with respect to the main frame, bearing boxes supported in said auxiliary frame, movable grinding rolls journaled in said bearing boxes, a shaft for adjusting one of said bearing boxes within the auxiliary frame, a second shaft for adjusting the auxiliary frame with relation to the main frame whereby to adjust the said movable grinding rolls with respect to the said fixed grinding roll.

1,943,143
DOUBLE ACTING INTERNAL COMBUSTION ENGINE
Ove Petersen, Copenhagen, Denmark
Original application October 3, 1928, Serial No. 310,062, and in Denmark October 14, 1927. Divided and this application July 17, 1930. Serial No. 468,704
6 Claims. (Cl. 123—61)



1. Improvements in vertical, double-acting internal combustion engines comprising a cylinder liner divided into an upper and lower part, an upper cover and a lower cover cast integral with said liner parts, said covers being interconnected by long throughgoing bolts serving to clamp the cylinder liner parts together.

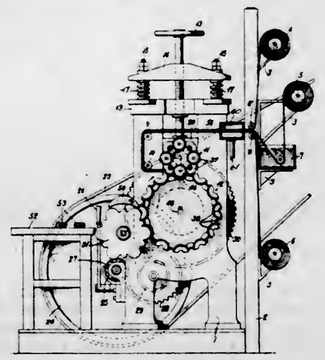
1,943,144
HOT PLATE MOUNTING
William Richardson, Huntsville, Ala., assignor to George Steingruber, Huntsville, Ala.
Application May 1, 1930, Serial No. 448,996
Renewed May 31, 1933
5 Claims. (Cl. 219—37)



5. The combination with a stove top having an opening, of an electric hot plate loosely fitting within said opening, a metal ring overlapping the adjacent edges of said opening and hot plate and covering the space between them, and clips attached to said ring for detachably securing said ring both to said hot plate and to said stove top.

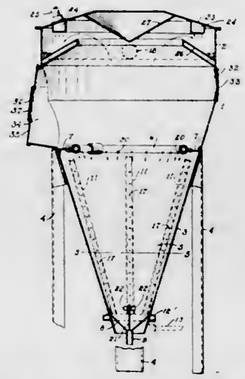
1,943,145
METHOD OF PRODUCING PACKING STRIPS
Gottfried Ruegenberg, Olpe Westphalia, Germany
Application August 31, 1932. Serial No. 631,262
6 Claims. (Cl. 154—33)

1. The method of producing a packing strip having a series of successive depressions for the accommodation of frangible articles which comprises forming a flat composite sheet of material by coating a web of paper with a binding medium, and superposing a web of paper upon each side of said coated web, passing said flat composite sheet of material with no preliminary forming between two rotary cooperating molding male and female roller units for impressing said depressions in said flat sheet and allowing a supplementary freely rolling movement of the molding members on the male roller unit rela-



tively to the roller units and the sheet of material passing therebetween, whereby a tearing and undue stretching of the sheet of material is obviated.

1,943,146
METHOD OF AND APPARATUS FOR DEODORIZING AND DEHYDRATING FLUIDS
Philip F. Rust, New Bremen, Ohio, assignor of one-half to The Industrial Equipment Company, Minster, Ohio, a corporation of Ohio
Application February 14, 1933. Serial No. 656,752
7 Claims. (Cl. 99—2)



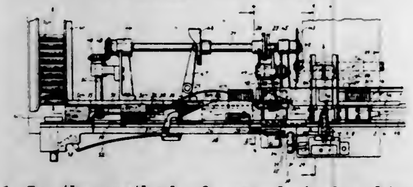
1. A method of deodorizing and dehydrating fluids continuously, which consists of introducing live steam in whirling motion into a vacuum chamber, then introducing a fluid to the top portion of the envelope of expanded steam whereby the fluid will descend outwardly and downwardly through said steam, and then discharging the treated fluid through the bottom of said vacuum chamber.

2. In a device of the type described, a container, means for creating a vacuum in the latter, means for inducing a cyclonic entrance of steam into said container, means for discharging a fluid downwardly upon the top portion of the whirling envelope of expanded steam, for treatment thereby, and means for discharging the treated fluid from the lower portion of the container.

1,943,147
PROCESS FOR THE MANUFACTURE OF TWO-PART BOXES

Johannes Schmiedel, Dresden, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Co., Dresden, Germany

Application November 24, 1931, Serial No. 577,117, and in Germany February 28, 1931
18 Claims. (Cl. 93—39)



1. In the method of manufacturing hinged boxes of card-board, paper and the like the step of pressing the sides of the boxes having the hinge together to secure the hinge of edging strip to the sides of the boxes.

1,943,148
PROCESS FOR PREPARING DISUBSTITUTED TETRAZOLES

Georg Scheuing and Bruno Walach, Nieder-Ingelheim-on-the-Rhine, Germany, assignors, by mesne assignments, to E. Bilhuber, Incorporated, Jersey City, N. J., a corporation of New Jersey

No Drawing. Application April 5, 1929, Serial No. 352,905, and in Germany April 18, 1928
11 Claims. (Cl. 260—44)

1. The process of preparing tetrazoles which comprises treating with a hydrazine a compound having the structure

$$\begin{matrix} R'-C-O-Ac \\ \| \\ R''-N \end{matrix}$$

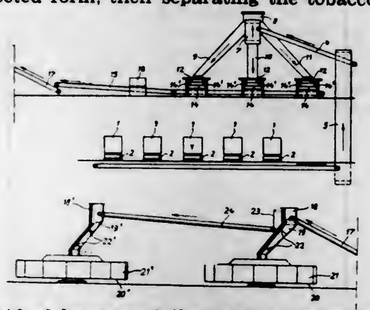
wherein Ac is a monovalent radical selected from the group consisting of —PCl_4, —SOCl, —$POCl_2$, —SO_2—C_6H_5 and —SO_2—C_6H_4—CH_3 and R′ and R″ respectively represent a radical selected from the group consisting of the phenyl radical and any saturated aliphatic radicals, and methylene radicals cyclically connected together by three further methylene radicals to the pentamethylene ring, and then treating the hydrazidine thus formed with a compound containing and yielding the nitrous acid radical under the conditions of the process.

1,943,149
PROCESS FOR PREPARING RAW TOBACCO FOR A TOBACCO CUTTING MACHINE

Willy Friedrich Schneider, Dresden, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Company, Dresden, Germany

Application March 6, 1931, Serial No. 520,701, and in Germany March 10, 1930
12 Claims. (Cl. 131—60)

1. A process for preparing raw tobacco for tobacco cutting machines comprising assembling the raw tobacco directly from the bales in piles in certain predetermined proportions, moistening the tobacco in said piles and allowing said piles to stand for a considerable time in order to effect an equalization of the aroma of the different types of tobaccos, then transferring said tobacco from said piles along separate paths to a common channel, separating the individual hands of tobacco from said separate paths upon said common channels, then transferring the tobacco in collected form, then separating the tobacco into

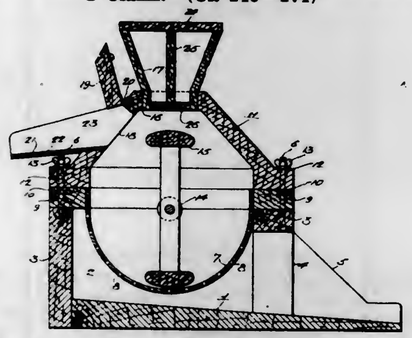


individual leaves and then again collecting said leaves in order to secure a thorough mixture.

1,943,150
FRUIT AND VEGETABLE PRESS

Raffaele Stoico, Camden, N. J.

Application October 11, 1932. Serial No. 637,329
1 Claim. (Cl. 146—174)



In a mill the combination with a box-like structure including a discharge trough, of a frame removably superimposed on said box, a foraminous screen mounted on the frame and depending into the box, a cover removably superimposed on said frame, a split bearing in each side of the mill, one half being formed in the upper face of each side of the frame and the other half in the abutting face of the cover, a shaft rotatably residing in said bearing and removable therefrom when the cover is removed, diametrically opposed crushing members rigidly mounted on the shaft and arranged to rotate adjacent the upper surface of the screen, a waste trap in the cover at the opposite end of the mill from the discharge trough, said trap being arranged to receive a trough for the removal of the unused portions of fruit and vegetables after grinding and the shaft is rotated in a direction opposite to the direction of the shaft during grinding, and a bolt releasably engaging the trough, frame and cover securing the various parts of the machine in operative relation.

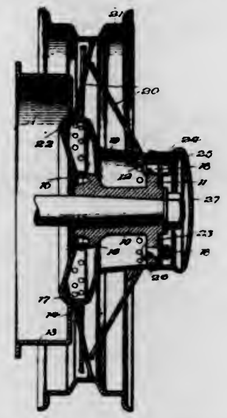
1,943,151
DEMOUNTABLE WHEEL

James H. Wagenhorst, Detroit, Mich., assignor, by mesne assignments, to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application January 21, 1930. Serial No. 422,384
1 Claim. (Cl. 301—6)

A wire spoke wheel, comprising an inner hub member, a brake drum having a brake flange and

a web secured to said inner hub member, said web having an annular depressed portion extending on the inboard side thereof, a rim member, an outer hub member having a tubular portion with its inboard end fitting in said depression and abutting said web and a radially inwardly extending portion at its outboard end, wire spokes

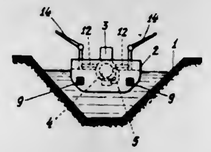


connecting said rim member to the inboard and outboard ends of said outer hub member and threaded members detachably engaging said radially inwardly extending portion for detachably securing said outer hub member to said inner hub member with said outer hub member abutting said brake drum web.

1,943,152
METHOD OF IRRIGATING

Jenö Weiss, Budapest, Hungary

Application July 15, 1931, Serial No. 551,020, and in Hungary July 22, 1930
1 Claim. (Cl. 299—52)

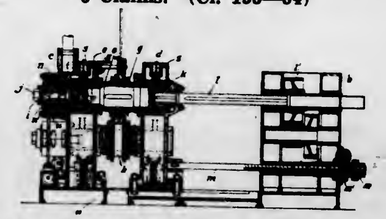


A method of supplying water to vegetation on large tracts of land having widely separated water channels extending therethrough, comprising moving a floating vessel through the water channels, withdrawing water from the channels and projecting the same in streams flowing at high velocity from each side of the vessel in directions substantially transverse to the path of movement of the vessel and upwardly at an angle calculated to effect substantially uniform sprinkling of the area of land traversed by the projected streams of water, the exact direction of projection of the streams of water being adjusted to avoid the production of a turning moment on the floating vessel and the resultant lateral propulsive force of the stream of water projected from one side of the vessel being balanced with respect to the resultant lateral propulsive force of the stream projected from the other side thereof to avoid side slip of the vessel in the water channels.

1,943,153
ROLLER STRAIGHTENING MACHINE

Alfred Wirth, Erkelenz, Rheinland, Germany

Application July 6, 1931, Serial No. 549,033, and in Germany July 11, 1930
6 Claims. (Cl. 153—54)

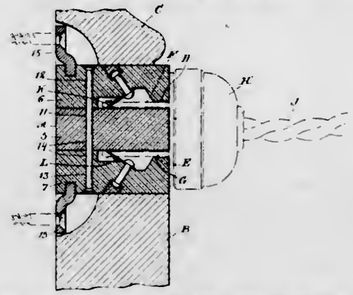


1. A roller straightening machine including gearing for driving the straightening rollers, a stationary driving box carrying the whole of the driving gearing, a stationary outer housing, and an inner housing slidably mounted between the driving box and the outer housing.

1,943,154
ELECTRIC PLUG RECEPTACLE

Harry Zucker, New York, N. Y.

Application March 1, 1932. Serial No. 596,091
1 Claim. (Cl. 247—3)



A continuous receptacle for electric attachment plugs including an elongated body of insulating material having parallel grooves for receiving the plug terminal fingers and continuous resilient contact strips arranged in said body and normally intersecting the grooves for frictionally engaging with and transmitting electrical energy through said fingers, said body being fabricated of upper, lower and intermediate sections, the latter being throughout of a depth approximating the spacing of the standard plug fingers and the former sections having the faces confronting the intermediate section rabbeted to define the finger receiving grooves, the rabbeted faces which confront the intermediate section having grooves provided with rearwardly angled walls and the contact strips being secured against said angled walls and protruding at a rearward inclination into the finger receiving grooves.

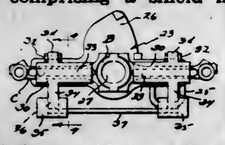
1,943,155
PROTECTOR FOR TINNING CONNECTING RODS AND THE LIKE

William H. Bagley, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan

Application July 20, 1931. Serial No. 551,997
3 Claims. (Cl. 91—12.2)

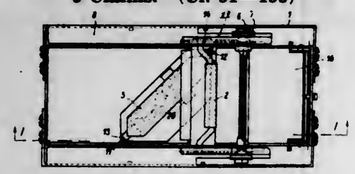
1. In an apparatus of the class described, means for producing and maintaining a free

column of molten tinning metal, a support for a connecting rod or the like for holding the bearing portions of the same in the path of said column, and a protector for the body of the connecting rod comprising a shield member piv-



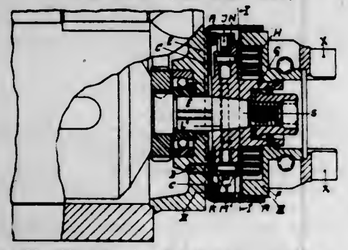
otally mounted on said support and having a portion substantially enclosing the body of said connecting rod, and means for holding said shield against accidental displacement when in operative position.

1,943,156
DEVICE FOR SHARPENING THE BLADES OF SAFETY RAZORS
William Barsch, Paris, France, assignor to the firm Industrie A. G. Allegro Ernmenbrucke, Lucerne, Switzerland
Application October 29, 1930, Serial No. 492,065, and in Germany February 6, 1930
6 Claims. (Cl. 51—153)



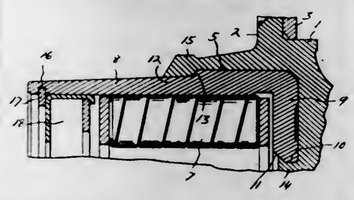
4. A sharpening device for razor blades comprising a frame, a blade carrier slidably mounted in said frame, a sharpening body, said sharpening body being provided with a convex operative side and arranged obliquely to the cutting edges of a blade in the blade carrier, means for supporting said body on said frame while permitting a limited turning movement thereof, and resilient means resisting at all times but not preventing such turning movement, whereby successive generatrices of the sharpening body are automatically brought into engagement with the cutting edge of the blade during movement thereof across the body.

1,943,157
MAGNETO
Jakob Bohli, Solothurn, Switzerland, assignor to Scintilla Aktiengesellschaft, Solothurn, Switzerland
Application December 22, 1930, Serial No. 504,106, and in Germany March 10, 1930
1 Claim. (Cl. 123—149)



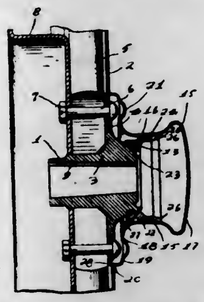
An adjusting device for break couplings of magneto electric ignition apparatus comprising a coupling casing, an annular segment rigidly connected to the coupling casing and having a radially inwardly directed toothed flange, an annular segment rotatable in the coupling casing and provided with axially directed fine teeth, a fixing disc securing the two annular segments and the coupling casing to a magneto, said disc being provided on its outer radially extending edge with axially directed teeth meshing with the teeth of the two annular segments.

1,943,158
WHEEL HUB
William N. Booth, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a corporation of New York
Application June 18, 1928. Serial No. 286,410
6 Claims. (Cl. 301—105)



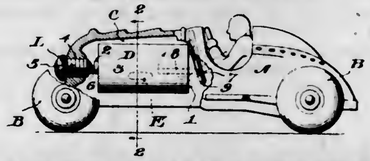
1. A wheel hub adapted to be mounted upon a bearing, said hub having an external barrel section provided with an axially extending cup-shaped recess, a cup-shaped internal barrel section for engaging said bearing and insertable into the recess, and means upon said external barrel section and engageable with the side and base of said internal barrel section for rigidly securing the latter to the former.

1,943,159
HUB CAP AND MEANS FOR SECURING SAME TO WHEEL HUBS
William N. Booth, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a corporation of New York
Application October 15, 1928. Serial No. 312,714
5 Claims. (Cl. 301—108)



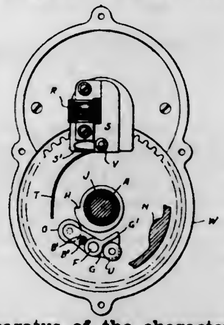
1. An adapter for alternatively securing a hub cap to vehicle wheel hubs having barrel portions of different lengths, comprising a member having an annular portion engageable with the barrel portions aforesaid and provided with another annular portion having an internal diameter greater than the external diameter of the barrel portions for sleeving over the latter and arranged to engage said cap for securing the same in assembled position.

1,943,160
ILLUMINATED WHEELED TOY
Jacob E. Brubaker, Lancaster, Pa., assignor to The Hubley Manufacturing Company, Lancaster, Pa., a corporation of Pennsylvania
Application May 26, 1933. Serial No. 673,056
2 Claims. (Cl. 46—48)



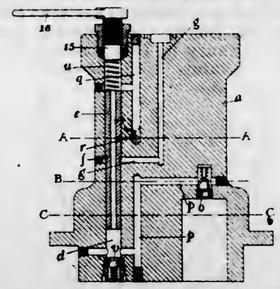
1. A wheeled toy including a cast metal body having a battery receiving cavity provided with rigid side walls and opening at one side of the body, means for constricting the width of the opening forming the entrance to the cavity, and said body formed with a threaded opening communicating with the cavity, an electric lamp simulating a headlight for the toy and having its screw shell terminal engaged with said threaded opening and the center contact thereof exposed in said cavity, a battery cell having an insulating cover adapted to be inserted in the cavity and wedged therein by said means and the rigid walls thereof, said battery having electrical terminals at opposite ends thereof and one of said terminals contacting directly with the center contact of the lamp, and a metallic lever in conductive relationship to the body, said lever being pivoted in the body at the end of the cavity opposite the lamp and including a cam portion, said cam portion serving as a contact for the other of said battery terminals and as means for forcing the battery toward the lamp.

1,943,161
MECHANISM FOR ELECTRICALLY CONTROLLING MECHANICAL MOTION
Thomas Albert Briggs Carver, Cheadle Hulme, England
Application October 8, 1930, Serial No. 487,359, and in Great Britain December 3, 1929
7 Claims. (Cl. 192—125)



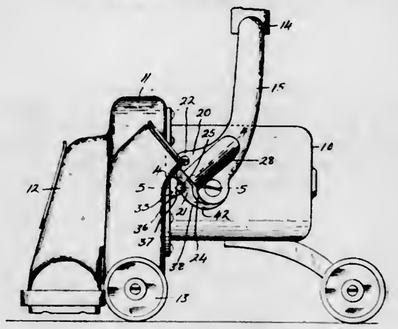
1. An apparatus of the character herein referred to, wherein the mechanism controlling the operation to be effected includes in a unitary structure a rotating shaft, an electrical generator driven therefrom, an electromagnet adapted to be energized by current derived from said generator, a movable element governing the operation of the apparatus to be controlled, a clutch device rotating with said shaft, and means governed by the energizing of the electromagnet operating to connect the said clutch device with the said movable element.

1,943,162
FUEL PUMP
Louis Coatalen, Wolverhampton, England
Application December 23, 1930, Serial No. 504,388, and in Great Britain June 4, 1930
2 Claims. (Cl. 103—40)



1. In fuel pumps, the combination of a plunger, a piston of larger diameter than the plunger, separate chambers containing the plunger and piston and arranged in communication with each other, a control valve subject to pressure of the fluid in the pump outlet for controlling the passage of fluid from one chamber to the other, which control valve comprises a cylindrical member having two parts of different external diameters and a passage therethrough through which fluid can flow and which establishes communication between the opposite ends of the said parts, a spring acting on the valve, and means for by-passing liquid from the chamber containing the piston when the control valve is closed, substantially as described.

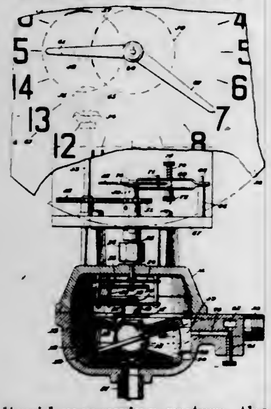
1,943,163
HANDLE LOCK FOR VACUUM CLEANERS
Edwin S. Crispin, Detroit, Mich., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan
Application November 14, 1932. Serial No. 642,677
9 Claims. (Cl. 306—11)



9. In combination, a handle, a support therefor, a pivotal connection between said handle and support, means for detachably holding the handle in a predetermined position relative to the support including a projection on the support, a pivotally mounted member carried by the handle and provided with a cam portion and a notch that are successively engageable with the projection upon movement of the handle, and means constantly urging the plate toward the projection so that the latter will be engaged by either the cam portion or notch, a portion of said

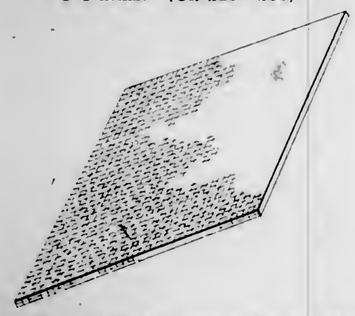
last mentioned means being yieldable to permit disengagement of the notch from said projection by mere force exerted upon the handle.

1,943,164
METER CALIBRATING DEVICE
James M. Dayton, Torrington, Conn.
Application January 9, 1930. Serial No. 419,693
8 Claims. (Cl. 73—98)



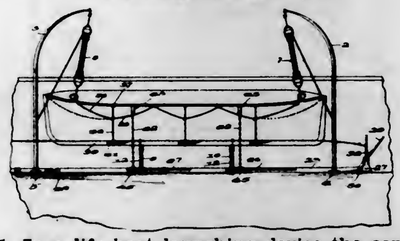
1. In a liquid measuring system, the combination of a liquid meter including a liquid inlet and a liquid outlet and a device operated by the flow of the liquid for measuring the flowing liquid and provided with an auxiliary passage for liquid from the meter inlet to the meter outlet and having a greater proportion of the total flow at a low rate of discharge passing through said auxiliary passage than at a high rate of discharge, and including a frame, an indicating system and a driving shaft therefor connected to said device, a friction member driven by said shaft, and friction means fixed to the frame and engaged with said friction member for constantly imposing a retardation upon the movement of said shaft, and a spring for maintaining said friction means engaged with said friction member.

1,943,165
FILTERING ELEMENT
Jesus de la Torre, Mexico, Mexico, assignor to J. De La Torre E. Hijo, of Mexico City
Application July 29, 1932, Serial No. 626,186
and in Mexico April 21, 1932
3 Claims. (Cl. 210—204)



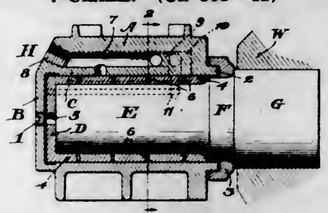
1. A filtering element comprising a thoroughly degreased woven fabric body of readily permeable vegetable fibres so as to offer thereby a minimum of resistance to the passage or flow through said fibres of a fluid to be filtered by said element.

1,943,166
LIFEBOAT LAUNCHING DEVICE
Joseph R. Dickinson, New York, N. Y., assignor of one-half to William A. Ryan, Brooklyn, N. Y.
Application October 12, 1931. Serial No. 568,466
4 Claims. (Cl. 9—22)



1. In a life boat launching device the combination with a life boat supported adjacent the side of a ship, of a cover for said life boat, means carried by the keel of the life-boat to which the cover is detachably secured, collapsible cradles in which the life boat rests, gripes for securing the life boat to the cradles, slidable means for releasing the cover and independent slidable means, partial operation of which releases all the gripes and subsequent operation of which releases all of the cradles.

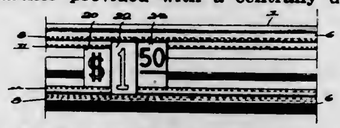
1,943,167
JOURNAL BEARING
Paul W. Dieter, New York, N. Y., assignor to P. W. Dieter, Inc., New York, N. Y., a corporation of Delaware
Application April 18, 1933. Serial No. 666,768
7 Claims. (Cl. 308—41)



2. In a railway journal bearing, the combination with a journal box having an outer end wall and an interior bore and also having lubricant supply means in a wall thereof communicating with said bore, of a floating bushing fitting in said bore and including a cylindrical perforated body portion and a thrust bearing wall positioned adjacent the inside face of the said outer end wall of the box, said body and end wall receiving lubricant from the lubricant supply means to lubricate a journal portion of a rotatable car axle fitting within said bushing.

1,943,168
CARD OR LABEL HOLDER
Harry B. Doppel, Forest Hills, N. Y.
Application March 23, 1933. Serial No. 662,333
8 Claims. (Cl. 40—16)

5. A label or card holder of the class described comprising a body member provided with two pairs of longitudinally extending, card-holding grooves, one pair near each longitudinal edge of the holder, whereby cards of three different sizes are readily held in said grooves, the holder being further provided with a centrally disposed



longitudinally extending stiffening rib, parallel to the grooves, and projecting outwardly towards cards held in the grooves.

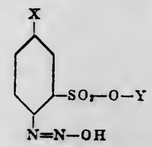
1,943,169
PROCESS OF MAKING FILM-SUPPORTS FOR COLOR PHOTOGRAPHY
John Eggert, Leipzig, and Gerd Heymer, Dessau, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of New York
Application October 22, 1929, Serial No. 401,623,
and in Germany October 23, 1928
13 Claims. (Cl. 18—57)



1. A method of making a support for casting lenticular films which comprises impressing the surface of the casting support by means of a roller provided with a relief formed by elements having a cylindrical curvature, thus producing parallel grooves forming a lined grating.

1,943,170
AZO-DYESTUFFS AND PROCESS OF MAKING SAME
Friedrich Felix, Basel, Switzerland, assignor to firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application May 8, 1933, Serial No. 670,035, and in Switzerland May 15, 1932
10 Claims. (Cl. 260—90)

1. A process for the manufacture of azo-dyestuffs, consisting in coupling a diazo-compound of the general formula

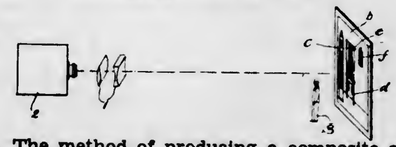


wherein X stands for a member selected from a group of substituents consisting of NO_2 and NH-acyl groups and Y for a nucleus of the benzene series, with such coupling components of the naphthalene series which, due to the presence of an NH-R group in the 2-position, R being H, alkyl, aralkyl or aryl, couple in the 1-position.

1,943,171
CEMENTATION MIXTURE FOR FERROUS METALS
Alexandre Folliet and Nicolas Sainderichin, Paris, France
No Drawing. Application October 23, 1930, Serial No. 490,813, and in France October 30, 1929
5 Claims. (Cl. 91—70.1)

1. A cementation mixture for treating ferrous articles, comprising an oxide of a metal selected from a group consisting of titanium, manganese, nickel, chromium and tungsten, a chloride of the same metal and a quantity of finely-divided aluminium.

1,943,172
PRODUCTION OF DISTORTED PHOTOGRAPHS
George William Ford, Patcham, Brighton, England
Application July 17, 1933, Serial No. 680,839,
and in Great Britain July 15, 1932
17 Claims. (Cl. 88—16)



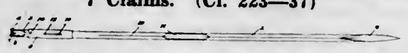
1. The method of producing a composite and distorted photograph which consists of conjointly forming a single image of normal and distorted objects through a distorting optical medium of such characteristics that the distortion of said distorted object is corrected and said normal object appears distorted.

1,943,173
SAFETY RAZOR
Antonio E. Frandi, Mexico, Mexico
Application August 23, 1932. Serial No. 630,108
1 Claim. (Cl. 30—12)



A safety razor comprising a handle having a horizontal flange at its upper end, a pair of superposed blade guards seated on the flange and having their ends curved inwardly from their corners to form a recess, the maximum depth of which is along the longitudinal axes of the blade guards, the latter having their guarding edges bevelled to form sharply defined angles, widely spaced guard teeth along said plate guarding edges, the teeth on the upper guard corresponding with those of the lower one, the teeth of the upper guard being straight to form continuations thereof, while the teeth of the lower guard are substantially at right angles thereto to extend above the level thereof, means for holding the guards in rigid relationship comprising spaced male members along the longitudinal axis of the lower blade guard and corresponding apertures formed in the upper blade guard, a screw member mounted above the handle flange cooperating with the guards, and a blade having concaved ends conforming in shape to the recessed ends of the guards and held therebetween by said male members and screw.

1,943,174
UPHOLSTERY NEEDLE
William J. Gagnon, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut
Application January 25, 1933. Serial No. 653,513
7 Claims. (Cl. 223—37)



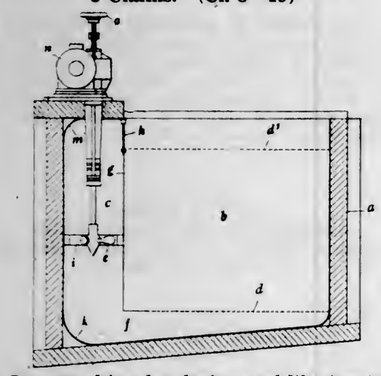
1. An upholstery needle having a recess to receive a chain end and an abutment forming an

end wall for said recess, said abutment being slotted to receive a chain link and a sleeve slidable upon said needle to close said recess and retain said chain therein.

1,943,175
MACHINE FOR DYEING YARN

Harold Gough, Manchester, England, assignor to The British Cotton & Wool Dyers' Association Limited, Manchester, England, a British company

Application October 17, 1932, Serial No. 638,236, and in Great Britain December 12, 1931
3 Claims. (Cl. 8—19)



1. In a machine for dyeing and like treatment of yarn and loose articles, the combination of a vat divided into dyeing and propeller compartments with communication between the tops and bottoms of the two compartments for the flow of the dye liquor, a Venturi construction in said propeller compartment, a propeller with blades of gradually reversible pitch in the throat of said Venturi construction, and means for gradually reversing said blades successively to slow down, reverse and speed up the flow of the dye liquor whereby entanglement of the articles is obviated.

1,943,176
CELLULOSE SOLUTION

Charles Graenacher, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application September 16, 1931, Serial No. 563,218, and in Switzerland September 27, 1930
21 Claims. (Cl. 260—100)

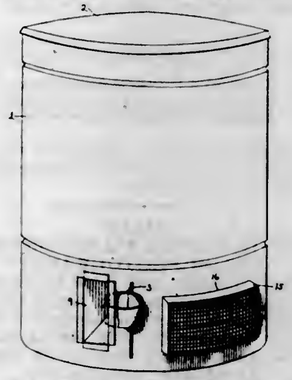
1. A manufacture of solutions of cellulose by dissolving cellulose in a liquefied quaternary ammonium salt obtained by addition of a halogen hydracid ester of an alcohol containing not more than 8 carbon atoms to a tertiary amine of the pyridine series.

1,943,177
TRAP

Parley F. Harris, Washington, D. C.

Application May 13, 1930. Serial No. 452,009
3 Claims. (Cl. 43—66)

1. A trap comprising a casing to removably receive a refuse container to permit the odors therefrom to accumulate within said casing, said casing having a passageway between the interior and exterior thereof to permit the escape of odors and the entrance of rodents to the interior of the casing, and a rodent trapping means removably secured in said casing and extending through a wall of the casing to receive light from the exterior of the casing and permit rodents caught therein to be viewed from the exterior of the casing.



1,943,178
METHOD OF KNITTING STOCKINGS ON FLAT KNITTING MACHINES

Woldemar Heinitz, Chemnitz, Germany, assignor to Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany

Application August 1, 1931, Serial No. 554,550, and in Germany August 19, 1930
4 Claims. (Cl. 66—187)



4. The method of knitting stockings in a single operation on flat knitting machines comprising widening the heel by widening of selvedge meshes to be seamed, narrowing heel loops for obtaining the rounding of the heel while skipping the selvedge loops, narrowing all heel loops for obtaining the narrowing at the heel for two needles while the tickler is retracted for two needles in the first half of the narrowing stage, and for one needle in the second half, and adding several narrowing rows in the manner of instep gussets during said second half.

1,943,179
PREPARATION OF NONDYEING METALLIFEROUS SULPHURIZED PHENOL DERIVATIVES

Valentin Kartaschoff and Oskar Knecht, Basel, Switzerland, assignors to the firm Chemical Works Formerly Sandoz, Basel, Switzerland

No Drawing. Application March 30, 1931, Serial No. 526,562, and in Germany April 8, 1930
10 Claims. (Cl. 260—18)

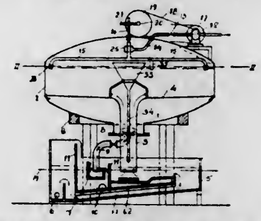
1. A process for the manufacture of non-dyeing metalliferous phenol derivatives, consisting in heating phenols other than those containing nitrogen, with a compound of a polyvalent metal containing partial valences in presence of sulphur and an accelerator selected from the class consisting of the salts of organic and weak inorganic acids and iodine and treating the condensation products thus obtained with an alkali selected from the class consisting of alkali metal carbonates and hydroxides.

9. The non-dyeing metalliferous sulphurized phenol derivatives which are in dry state non-hygroscopic powders, easily soluble in water, yielding more or less colored precipitates on addition of mineral acids and difficulty soluble compounds with earth alkali metal and heavy metal salts and which possess mordanting, tanning and reserving properties and may be used as insecticides and as intermediates for the production of dyestuffs and pharmaceutical preparations.

1,943,180
APPARATUS FOR THE SEPARATION OF PARTICLES FROM LIQUIDS

Adolf Magnus Rupert Karlström, Hyltebruk, Sweden

Application October 2, 1929, Serial No. 396,745, and in Sweden October 3, 1928
2 Claims. (Cl. 210—53)



1. An apparatus for the separation of particles such as fibres from liquids comprising in combination a closed tank, an upwardly directed inlet for the introduction of liquid intermingled with particles and gas into the tank, said inlet extending substantially centrally into the tank, a stationary suction conduit connected to the tank, a rotatable suction nozzle movable substantially horizontally within the tank and adapted to maintain a reduced pressure within the tank whereby the particles by adhering gas bubbles are lifted to the surface of the liquid and to suck up the ascended particles and forward the same to the stationary suction conduit, the vertical distance between the mouth of the central inlet within the tank and the horizontal plane in which the suction nozzle operates being much smaller than the lateral extension of the tank in said plane, an outlet for the purified liquid at the lower part of the tank, and means whereby the purified liquid is supplied to the outlet in a substantially evenly distributed flow all round the tank.

1,943,181
COMPOSITION OF MATTER

William J. Lilpfert, Fort Valley, Ga.

No Drawing. Application February 15, 1930 Serial No. 428,836
1 Claim. (Cl. 167—14)

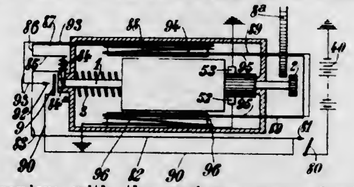
A bactericide and fungicide composition comprising basic zinc sulphate intermixed with free calcium hydroxide in the form of a powder adapted to be dusted on plants and trees.

1,943,182
STARTING DEVICE AND STARTING CIRCUIT

Joseph Ernest Octave Louette, Poissy, France

Application December 8, 1930, Serial No. 500,922, and in France May 3, 1930
2 Claims. (Cl. 290—38)

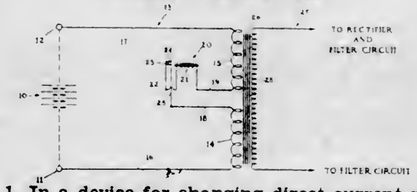
1. In an electric starting motor for an explosion engine, a source of electric currents, an inductor carrying pole pieces and a first winding arranged thereon, a rotor adapted to be moved in translation and comprising an armature winding, a spring for acting against the translation of the armature, a circuit comprising in series the first winding arranged on the pole pieces and the armature winding, a switch in the said circuit, means for automatically closing the said switch at the end of the translation of the rotor in antagonism with the spring, a second winding mounted on the pole pieces, a supply circuit of the said second winding mounted directly on the terminals of the source and a switch mounted on the said circuit of the second winding and adapted to be operated manually, a locking device adapted to act in its normal position against the translation of the rotor and means for disengaging the said device when the said second winding is put in circuit.



1,943,183
DEVICE FOR CHANGING DIRECT CURRENT POTENTIALS TO ALTERNATING CURRENT POTENTIALS

Donald H. Mitchell, Chicago, Ill., assignor to P. R. Mallory & Co., Incorporated, Indianapolis, Ind., a corporation of Indiana

Application September 27, 1932
Serial No. 635,000
3 Claims. (Cl. 175—365)



1. In a device for changing direct current potentials to alternating current potentials, the combination with a transformer secondary adapted to deliver alternating current potential to any desired device, of a primary circuit including a source of direct current potential, a transformer primary split into a plurality of sections, and a mechanical circuit interrupter interposed between two adjacent sections of said primary.

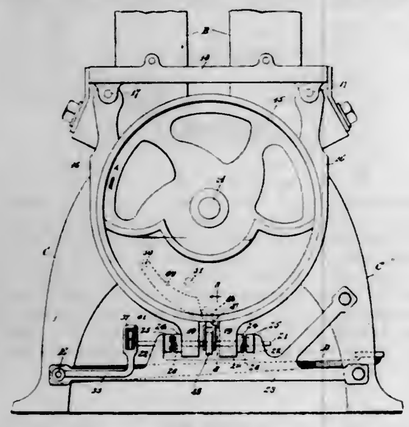
1,943,184
BRAKE MECHANISM

Henry Naeder, St. Louis, Mo., assignor of one-half to Emil W. Reitermann, St. Louis, Mo.

Application October 16, 1929. Serial No. 400,024
8 Claims. (Cl. 192—144)

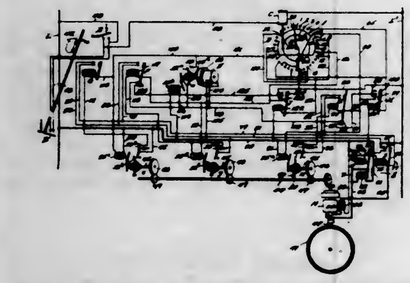
1. The combination with a machine having a rotary member adapted to make a single revolution upon each operation thereof and including a pedal for initiating each operation; of a mechanism for stopping said member precisely upon the completion of a single revolution, for preventing retrograde movement thereof and for instantly releasing said member at the beginning of each operation, said mechanism including a brake wheel secured to the rotary member for

turning movement therewith, a brake shoe normally disposed out of contact with the brake wheel, a rockable element, interengageable means on the brake shoe and rockable element operable to apply the shoe to the wheel when said element is rocked in one direction and serving when the element is rocked in the opposite direction, to permit of the movement of the shoe



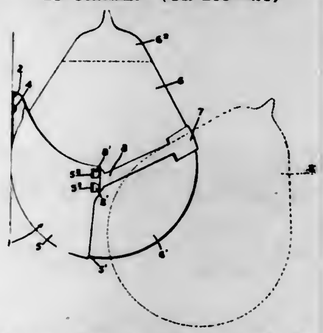
to its normal released position; co-operating means on the rockable element and wheel for actuating the rockable element at each complete revolution of the wheel and for preventing retrograde movement of the wheel; and means of conpection between the machine pedal and the rockable element for imparting rocking motion to the latter.

1,943,185
ELECTRIC MOTOR CONTROL SYSTEM
William H. Neville, Birmingham, Ala., assignor to Monitor Controller Company, Baltimore, Md., a corporation of Maryland
Application November 7, 1932. Serial No. 641,636
8 Claims. (Cl. 172—239)



1. The combination with an electric motor and a load to be moved thereby, of a starter for the motor, a plurality of normally open relay switches adapted to independently control the operation of the starter, a master switch having a plurality of contacts and a contact member adapted to engage said contacts, step by step, in succession, means for operating said switch intermittently, independent circuits for the magnets of said relays connected to independent contacts on said switch, and a plurality of slip-switch mechanisms operated by the motor, each adapted to open a separate one of said circuits.

1,943,186
FIRE EXTINGUISHER
John B. Quinn, Los Angeles, Calif., assignor, by mesne assignments, of one-half to Wendell S. MacFarland, Alice MacFarland, and Edgar L. Tompkins, all of Los Angeles, Calif., and one-half to Herman Miller, South Pasadena, Calif.
Application October 23, 1930. Serial No. 490,672
13 Claims. (Cl. 169—26)



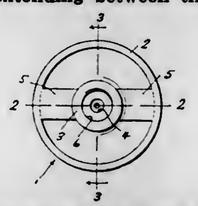
5. The combination of a grenade fire extinguisher having a curved bottom and a reduced top, a support adapted to be fastened to a wall and having its lower portion projecting forwardly to form a fixed seat for a portion only of the bottom of the grenade so that the center of gravity of the grenade will lie in a vertical line passing outside of said seat, a grenade retaining member having its ends releasably secured to the seat at opposite sides of the grenade, and a fusible connection between each end of the retaining member and the seat so that on the failure of the fusible connection the retaining member will be released from said seat and permit the grenade to fall.

11. The combination of a grenade fire extinguisher, a support having a fixed seat projecting forwardly therefrom for the reception of the bottom of the grenade, the grenade and seat being so shaped that the grenade when on its seat will tend to fall therefrom under the action of gravity, a retaining member embracing the grenade about a central zone and having one end secured to the support in pivotal relation, a fusible connection interposed between the retaining member and the support so that on the failure of the fusible connection the retaining member will swing on its pivoted end to release the grenade and permit same to fall from the seat, the fusible connection comprising an outer plate provided with means for holding the retaining member, a plate intermediate the outer plate and the support and permanently secured to the latter, and a fusible layer between the outer and intermediate plates holding said plates together.

1,943,187
BLOWGUN
David G. Re Vley and Jay E. Hirsh, Los Angeles, Calif.
Application July 14, 1932. Serial No. 622,548
1 Claim. (Cl. 239—95)

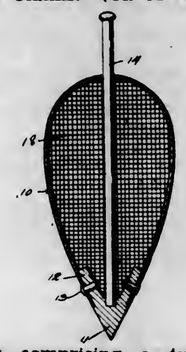
A blow gun comprising an elongated, tubular barrel including a substantially flared end portion, the rest of the barrel being substantially of uniform diameter, said barrel being open at both ends, a nozzle projecting centrally into the flared end portion of the barrel, the bore of the nozzle being tapered toward its discharge end, the outer end portion of the nozzle being counterbored and internally threaded for connection with an air

supply conduit, and integral circumferentially spaced webs extending between the nozzle and



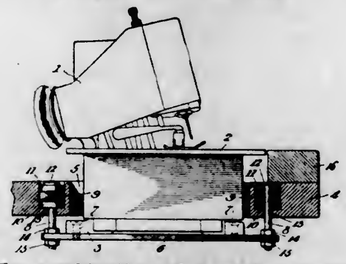
the flared end portion of the barrel for mounting the nozzle in spaced relation to the barrel.

1,943,188
SEWER FOR SAND
George W. Richards, Wilmington, Del.
Application May 3, 1932, Serial No. 608,970
Renewed June 24, 1933
8 Claims. (Cl. 61—10)



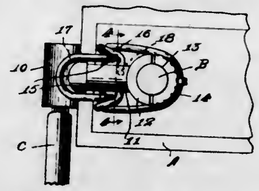
1. A sewer comprising a tubular member formed of sheet material bent upon itself in a manner to form a substantial V along its longitudinal edges, and a driving edge uniting said longitudinal edges.

1,943,189
SUSPENDED RESILIENT MOUNTING FOR SEWING MACHINES
Charles F. Rubel, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application May 19, 1932. Serial No. 612,372
2 Claims. (Cl. 112—258)



1. The combination of a sewing machine, a supporting table therefor having an opening therethrough in which the sewing machine is adapted to be placed, a supporting bed plate beneath the table on which said machine is fixedly mounted, hangers for suspending the bed plate, each hanger including a bolt rigidly attached to the supporting bed plate and extending through the table, a resilient member carried by the table surrounding said bolt and supporting the same.

1,943,190
BATTERY TERMINAL CONNECTION
Jesse L. Sands, New Martinsville, W. Va., assignor of one-half to Pearl S. McCarty, Fairmont, W. Va.
Application September 8, 1931. Serial No. 561,728
6 Claims. (Cl. 173—259)



1. Means for clamping a conductor to the terminal post of a storage battery, comprising a connector mounted upon the end of the conductor and terminating in a curved saddle member disposable against one side of the battery terminal post, a complementary clamping member disposed against the opposite side of the post, a lever pivoted upon said connector, and a yoke embracing and permanently pivotally connected with said complementary clamping member and pivotally engaged with said lever intermediate the ends thereof, said lever having a portion engageable with the connector for maintaining a non-alined relation between the pivots.

1,943,191
FABRICATED TANK
William Schwemlein, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a corporation of West Virginia
Application February 16, 1933. Serial No. 657,117
6 Claims. (Cl. 220—1)



5. In a stave for fabricated cylindrical tanks comprising a transversely arcuate sheet metal body having an outstanding flange at one vertical extremity provided with a series of fastening element receiving openings arranged on an arcuate line eccentric to the curvature of the body of the stave, the radius of curvature of said arcuate line being equal to the radius of curvature of the outer surface of the body of the sheet plus the distance from said outer surface to said arcuate line substantially centrally of its length.

1,943,192
RELEASABLE SINKER
Louis Semar, Anacortes, Wash.
Application November 11, 1932
Serial No. 642,301
6 Claims. (Cl. 43—28)

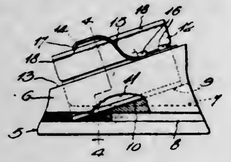
2. A sinker for fishing lines, including a weight, means adapted to slidably connect said weight to a fishing line, and means pivoted at one end to said first-mentioned means about which last-mentioned means the line is adapted to be wound to form a bight for securing the weight in fixed position on the said line, said last-mentioned means being swingable to an angular position

with the first-mentioned means by a pull in one direction on the line for releasing the weight



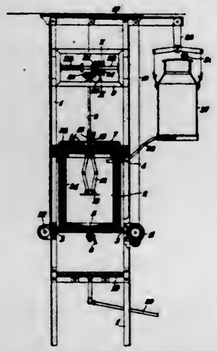
from said fixed position to a slidable position on said line.

1,943,193
ENVELOPE OPENER
Joseph Stephan, Union City, and Paul Henckel, North Bergen, N. J.
Application November 1, 1932, Serial No. 640,728 Renewed August 11, 1933
2 Claims. (Cl. 120—35)



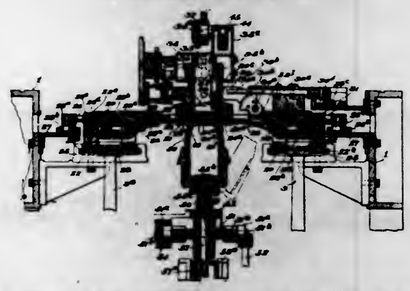
1. An envelope opener comprising a block having a horizontal open-ended groove opening laterally to receive an edge portion of an envelope, said block being formed with a vertical blade-receiving kerf which opens through the upper edge of the block and opens into the upper side of said groove, an inclined blade received in said kerf and having a lower corner portion extending across said groove, said blade being provided with a longitudinal back over said block, and a spring arm secured to said block and having a portion resting upon said back to yieldably hold the blade in the kerf.

1,943,194
LIQUID DISPENSING APPARATUS
William Vachoux, Geneva, Switzerland
Application June 8, 1932, Serial No. 616,103, and in Switzerland June 19, 1931
7 Claims. (Cl. 221—67)



1. A liquid dispensing apparatus comprising a liquid containing reservoir, a dispensing valve provided in the bottom of the reservoir, a piston vertically movable in the reservoir, a piston rod mounted for rotation relative to the piston, a hoist, a casing suspended from the hoist to be vertically movable and carrying the piston rod, means in the casing to impart a movement of rotation to the piston rod, and a liquid agitating device carried by the piston rod.

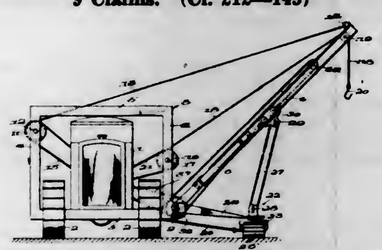
1,943,195
GLASS WORKING APPARATUS
Willard L. Van Ness, Toledo, Ohio, assignor to Corning Glass Works, Corning, N. Y.
Application December 18, 1928
Serial No. 326,735
20 Claims. (Cl. 49—5)



1. In a glass working apparatus, the combination with a travelling glass conveyor apron comprising a plurality of articulated sections, of glass working elements associated with and mounted for swinging movement on the several sections of the conveyor.

4. In a glass working machine, the combination with a glass conveying apron comprising a series of articulated plates, each having a concave upper surface with an orifice therein, of means for feeding a ribbon of glass to the apron, and glass feeding mechanisms moving with the plates and entering the cavities in the concave surfaces thereof.

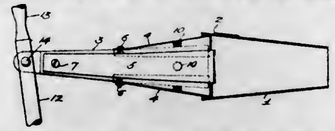
1,943,196
ATTACHMENT FOR TRACTOR CRANES
Clarence F. Ward, Birmingham, Ala.
Application July 18, 1932. Serial No. 623,234
9 Claims. (Cl. 212—145)



1. In a crane having an adjustable boom, a supporting leg, means at one end of said leg for adjustably engaging said boom, rotary means at the other end of said leg for progressively engaging the ground upon the movement of the crane and means for transmitting power to said last-named means.

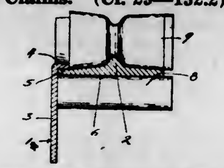
1,943,197
STUFFING DEVICE
John Alvin Weiland, Phoenixville, Pa., assignor to Weiland Packing Company, Inc., Phoenixville, Pa., a corporation of Pennsylvania
Application July 15, 1932. Serial No. 622,751
9 Claims. (Cl. 17—38)

1. An apparatus for stuffing material into a casing comprising a cone section to receive said material, a piston reciprocable in said cone, and a sectional pressure head on said piston, each of said sections being movable radially of the piston and having at least a portion of their radial edges overlapping whereby a relative traverse of said sections is effected to conform to changes in cross section area of the cone as the piston



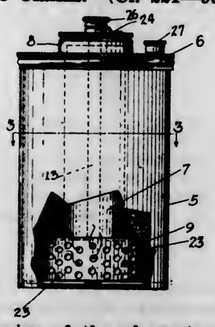
moves therethrough and a substantially solid pressure head surface is afforded irrespective of the position of said sections radially of the piston.

1,943,198
METHOD OF FORMING A BRAKE DRUM
John William White, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a corporation of New York
Application January 8, 1932. Serial No. 585,617
4 Claims. (Cl. 29—152.2)



1. In the method of forming a brake drum, the centrifugal casting of an annular brake engaging member within a mold to a back plate and the subsequent rolling of a surface of the member while hot.

1,943,199
SUGAR DISPENSER
August Asplund, San Francisco, Calif.
Application June 8, 1932. Serial No. 616,140
3 Claims. (Cl. 221—98)



1. In a device of the character described, a container, a housing positioned in said container, rotatable compartments positioned in said housing, a tube extending from said housing and communicating with the apertured cover of said container, said compartments having ports formed therein, said housing having a port formed therein, and means for successively rotating said compartments to align the respective ports of said cover and said housing with one of the ports of said compartments.

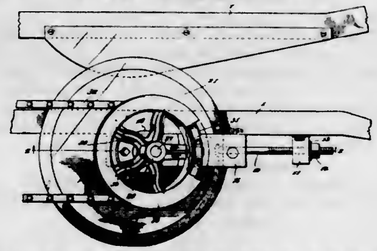
1,943,200
BRACKET
Libbie Bisset, Newark, N. J.
Application April 10, 1933. Serial No. 665,429
1 Claim. (Cl. 156—26)

A bracket comprising an attaching portion for attachment to the face of a window frame, a member carried by the attaching portion and offset laterally therefrom and bifurcated to form spaced guide arms, said arms being in a single



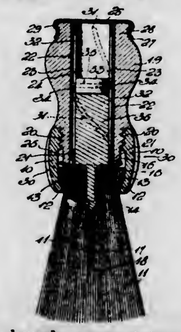
surface approximately parallel to said attaching portion and being arcuately curved and providing therebetween an arcuately curved slot opening outwardly through one end of the member.

1,943,201
CUTTER FOR CORN HARVESTERS
Frederick W. Bueker, Brookville, Kans.
Application February 3, 1932. Serial No. 590,719
6 Claims. (Cl. 56—102)



1. In a corn harvester, a frame, a stationary cutter secured to the frame, a rotary cutter mounted on the frame and coacting with the stationary cutter, means for adjusting the rotary cutter with respect to the stationary cutter and holding said rotary cutter in adjusted position, and means mounted on the frame above the rotary cutter for positively rotating the same.

1,943,202
SHAVING BRUSH
Eugene J. Charles, New Haven, Conn.
Application January 25, 1933. Serial No. 653,535
3 Claims. (Cl. 15—137)



1. A shaving brush comprising a bristle-carrying cup having a shaving cream discharge opening in its bottom, a handle, means for detachably connecting said handle and said cup and for holding them against relative rotation except when detaching one from the other, said handle having a central cylindrical bore which opens through both of its ends, the wall of said bore having helical grooves, a tubular shaving cream cylinder rotatably fitted in said bore, said cylinder being open at its lower end, being closed at its upper end and having longitudinal slots,

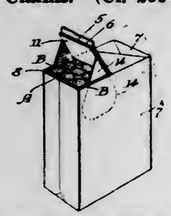
a cream extruding piston in said cylinder having studs passing through said longitudinal slots into said helical grooves, and means on the upper end of said cylinder whereby the latter may be rotated with respect to said cup and handle to effect movement of said piston.

1,943,203
PRESSER FOOT FOR PLAIN STITCHING AND SHIRRING
Joseph Chudner, Brooklyn, N. Y.
Application March 2, 1932. Serial No. 596,375
9 Claims. (Cl. 112—235)



1. The combination with a pivoted spring-actuated presser foot, of means to variably limit the pivotal movement of the foot subject to the action of the spring thereof, for the purpose of producing shirring.

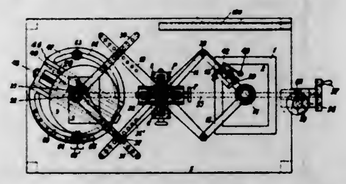
1,943,204
CIGARETTE PACKAGE
Thomas J. Chute, Los Angeles, Calif.
Application August 18, 1931. Serial No. 557,924
2 Claims. (Cl. 206—41)



1. As a new article of manufacture, a closure device for cigarette packages of the kind employing a wrapper of material capable of being torn by the hand for the purpose of gaining access to the cigarettes and a discharge of same from one end of the package; comprising a closure member characterized by a thin strip of sheet material having a surface thereof scored transversely, whereby to provide a portion adapted to be angularly adjusted relative to another portion thereof; the said strip adapted to be positioned at one end of the package and to lie beneath a portion of the wrapper of the package; and a pair of wings formed as a part of the strip and extending from the respective side edges of the first said portion of the strip and adapted to be folded to positions at right angles to said portion so as to be disposed against the inner faces of opposite sides of the package, the side edges of the said first named portion of the strip being projected to a point in advance of the wings so that same may be engaged by the finger nail when it is desired to angularly adjust said portion.

1,943,205
PANTOGRAPHIC MAP DRAWING APPARATUS
Oswald Coradi, Zurich, Switzerland
Application April 2, 1929, Serial No. 351,981, and in Switzerland April 4, 1928
6 Claims. (Cl. 33—25)

2. Apparatus of the class described, comprising a pantograph having a substantially centrally arranged anchor point, a tracer point at one end and a reproducing point at the other end; means to shift the anchor point in either of two directions at an angle to each other, a copy holding



element, and means to so shift said copy holding element as to vary the distance between any point on the said element and the anchor point, as may be desired.

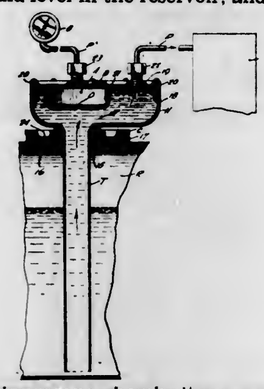
1,943,206
FOLDING LADDER WITH REAR PROP
Louis Corneloup, Paris, France
Application November 9, 1931, Serial No. 573,983, and in France November 12, 1930
4 Claims. (Cl. 228—38)



1. A folding ladder, comprising a prop, uprights, pivot joints at the top of said uprights, and the prop, guides provided in the interior of one of the uprights, slidable members longitudinally-movable in the said guides, and rounds pivoted at their ends to the said slidable members.

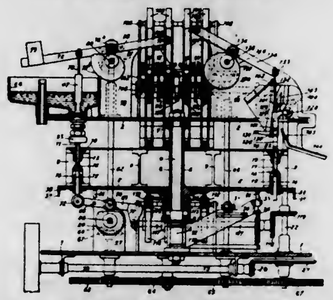
1,943,207
LIQUID LEVEL GAUGE
Nephi W. Cummings, San Bernardino, Calif.
Application October 29, 1928. Serial No. 315,852
6 Claims. (Cl. 73—54)

1. In a liquid level gauge, the combination of a liquid reservoir, a tube leading upward from a level near the bottom of the reservoir, communicating at its lower end with the reservoir, and having a sufficiently large cross section to make the error due to the velocity in liquid flow in the tube negligible, a pipe adapted for communication with a region of relatively low pressure, an enclosure above the upper portion of the tube having a wall provided with a port, a chamber at the upper portion of the tube extending below the enclosure and communicating with the said enclosure through said port and communicating with said pipe, said enclosure having a wall provided with a passage through which air can pass slowly and communicating with the reservoir so as to maintain the air at the outer end of the passage at practically the same pressure as that at the liquid level in the reservoir, and a pressure



gauge having means whereby it may communicate with the said enclosure.

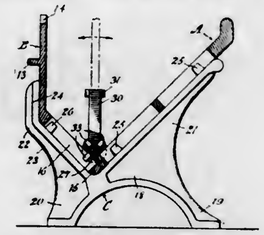
1,943,208
MACHINE FOR FILLING AND CORKING BOTTLES OF ANY SHAPE AND DIMENSION
Edouard Fernand Dauteuil, Saint-Denis, France
Application August 17, 1931, Serial No. 557,688, and in Germany January 29, 1931
4 Claims. (Cl. 226—76)



1. A machine for filling and corking bottles comprising a frame composed of upper and lower fixed plates, a horizontally disposed rotatable plate between the fixed plates, a crown carried by the rotatable plate and provided with bottle receiving compartments, a superimposed filling mechanism on the frame occupying a fixed stationed position, a superimposed corking device occupying a second fixed stationed position, a bottle ejecting mechanism occupying a third fixed stationed position, bottle lifting devices situated below on the lower plate and beneath the rotatable plate for cooperating with the filling and corking devices, weighted levers associated with the filling, corking, ejecting and bottle lifting mechanisms, cams for periodically actuating the levers, and cam controlled means for intermittently rotating said plate and crown when the said mechanisms are inoperative.

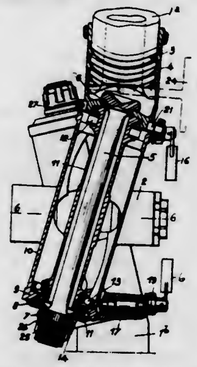
1,943,209
OPEN FIREPLACE GRATE
Gervase Peveril Davis, Lake Placid, N. Y.
Application September 27, 1932
Serial No. 635,106
4 Claims. (Cl. 126—164)

1. An open fireplace grate comprising a rear wall having an imperforate vertical portion, a forwardly and downwardly inclined lower slotted portion, a slotted front wall inclining upwardly and forwardly and a pair of spaced supporting members having arms fashioned to fit the



front and rear grate walls and having lugs engaging in the slotted portions thereof to maintain the grate in assembled relation.

1,943,210
AUTOMATICALLY VARIABLE PITCH PROPELLER
Dimitri Sensaud de Lavaud, Paris, France
Application November 14, 1931, Serial No. 575,431, and in France November 14, 1930
10 Claims. (Cl. 170—162)

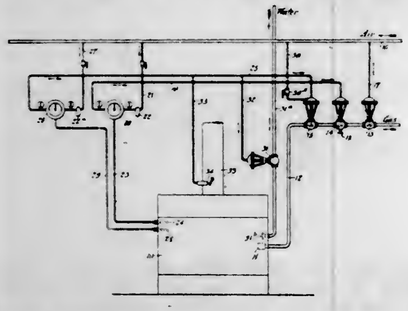


1. In a propeller having a variable pitch, a hub, blades, means for pivoting each blade on the hub about an oblique geometrical axis with respect to the geometrical axis of the hub, the blades being arranged so that the geometrical extension of their neutral axis passes outside the geometrical axis of the hub and so that in a predetermined initial position this neutral axis is in a plane perpendicular to the geometrical axis of the hub, and resilient means for bringing back the blades to this initial position.

1,943,211
METHOD FOR ROASTING COFFEE
Edward J. Dent, Montclair, N. J., assignor to American Coffee Corporation, Brooklyn, N. Y., a corporation of New York
Application January 20, 1931. Serial No. 510,038
4 Claims. (Cl. 99—11)

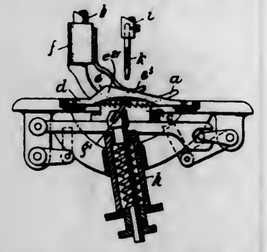
1. The method of roasting coffee consisting in subjecting coffee during the roasting period in a roaster to a continually rising temperature beginning at approximately a roasting temperature and continuing until the temperature of the roaster reaches a predetermined relatively higher degree, and thereafter continuing to roast the coffee in the roaster at a more slowly rising tem-

perature until a predetermined higher temperature of the coffee is reached indicating that the



roasting has been completed when the supply of heat is discontinued.

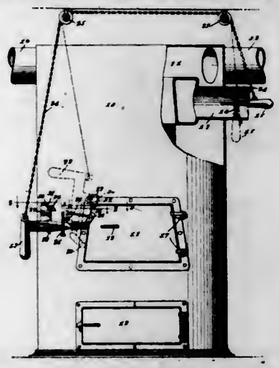
1,943,212
THREAD DRAWING DEVICE
Nikolaus Deutsch, Budapest, Hungary
Application July 8, 1930, Serial No. 466,606, and in Hungary February 3, 1930
3 Claims. (Cl. 112—78)



1. A device for drawing threads from woven fabrics, comprising a throat plate having an opening therein, means for feeding the fabric forward over the throat plate, two ribs on the throat plate, one on either side of the said opening and inclined upwards in the direction in which the fabric is fed forward, means for stretching the fabric tautly over the said ribs, a cutter head capable of swinging to and fro with respect to the throat plate, said cutter head having a slot therein, a cutter capable of oscillating laterally in the said slot and a counter cutting edge on the throat plate for coacting with the said cutter, as and for the purpose set forth.

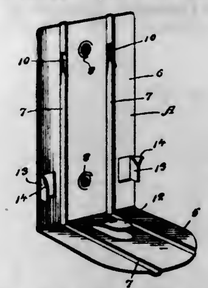
1,943,213
AUTOMATIC LEVER FOR FURNACES
George E. Dietz, Louisville, Ky.
Application October 26, 1931. Serial No. 571,260
2 Claims. (Cl. 126—287)

1. In combination with a furnace fire door and smoke pipe damper, a lever pivoted adjacent the door for swinging movement in a vertical direction, said lever having a weighted free end and having a flexible connection with the damper, said lever being movable from a normal horizontal position to a substantially vertical position, means for limiting the upward swinging movement of the lever, means pivoted on the lever and located in obstructing relation to the door when the lever is in vertical position, said means being engageable by the door for starting movement of the lever from vertical to horizontal position, and guide means on the lever located outwardly of the



door for assisting to close the same and for maintaining the closed relation.

1,943,214
MATCH BOX HOLDER
Isadore H. Dube, Cincinnati, Ohio
Application February 16, 1933. Serial No. 657,148
1 Claim. (Cl. 206—31)



A holder of the character described comprising a single piece of material forming a body bent on itself to provide a shelf and a back wall at right angles thereto, pointed prongs cut and bent from the back wall near the upper end thereof, a spring finger cut and bent from the shelf and acting upon a match box to force the same in a direction for the automatic engagement of the prongs therewith when the box is brought in place relative to the body, strengthening ribs struck from the body throughout the longitudinal extent thereof and extending through the shelf and back wall, and tongues cut and bent from the back wall of the body to engage with opposite sides of the match box to hold the same against lateral displacement.

1,943,215
TEXTILE ROLL AND METHOD OF MAKING THE SAME
Charles K. Dunlap, Hartsville, S. C., assignor to Sonoco Products Company, Hartsville, S. C., a corporation of South Carolina
Application October 13, 1932. Serial No. 637,638
2 Claims. (Cl. 19—143)

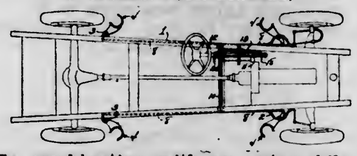
1. The method of fabricating tubes, cots, or the like which comprises forming an elongated strip of material having the capacity to stretch under tension, all cross-sections through said strip being trapezoidal and of equal area, and

thereafter winding the same helically upon a cylindrical mandrel, the wider of the parallel faces being outermost, the bending incident to the winding operation deforming the strip trans-



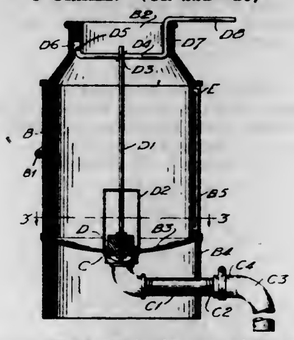
versely and causing all cross-sections thereof to become parallelograms, whereby the helical faces of the meeting edges of adjacent windings will closely engage.

1,943,216
THEFT PREVENTIVE DEVICE FOR AUTOMOBILES
George T. Ellis, Trenton, N. J.
Application January 9, 1933. Serial No. 650,929
3 Claims. (Cl. 192—13)



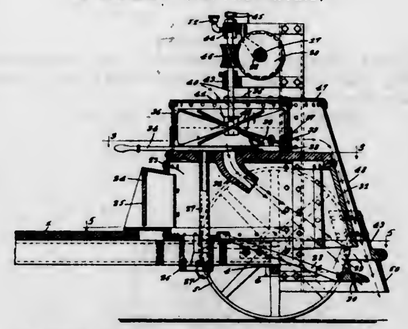
1. In combination with an automobile chassis pivotally mounted tire and wheel engaging elements on the chassis, means for engaging and disengaging said elements with the tires and wheels of the chassis, means for locking said first means, and means for effecting disengagement of the clutch by said first means and during engagement of the elements with the tires and wheels of the chassis.

1,943,217
DISPENSING RECEPTACLE
Elmore M. Godfrey, Jr., Knoxville, Tenn.
Application September 24, 1932
Serial No. 634,768
6 Claims. (Cl. 221—16)



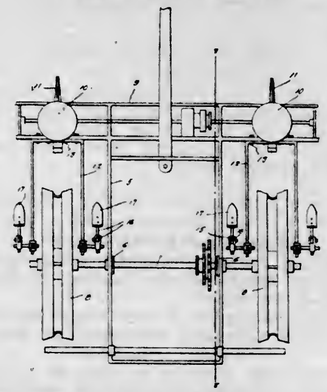
1. A measuring receptacle comprising side walls having an upper open end, a bottom therefor having a discharge opening, a valve arranged in position to control said opening, a valve stem connected with the valve and extending upwardly therefrom toward the upper open end, a horizontally arranged valve lever pivotally connected intermediate its ends with the upper end portion of the valve stem, and means pivotally connecting one end portion of said lever with a side of the receptacle, the other end portion of the lever extending horizontally over the opposite edge of the receptacle and being free therefrom to swing upward on said pivotal support to unseat the valve.

1,943,218
WEED BURNER
Greger E. Guttormson, Fort Ransom, N. Dak.
Application December 16, 1931
Serial No. 581,449
4 Claims. (Cl. 126—271.3)



1. A weed burner comprising a wheel carried platform, a combustion member mounted upon the platform and having a receiving chute, a door hingedly mounted in said chute, a fire box located below the forward end of the combustion chamber, a grate constituting the bottom of the combustion chamber, said chamber having an opening at its lower rear end, a wall disposed in rear of said combustion chamber and spaced from the rear wall thereof to define a downwardly directed air passage across the opening in said combustion chamber, means for discharging air through said air passage and means at the top of said combustion chamber and in communication with the air discharging means for directing air downwardly in a diagonal direction from the top and through the opening in said combustion chamber.

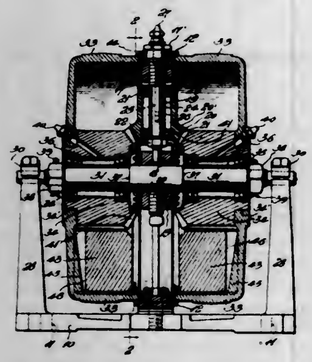
1,943,219
CORN COVERER
Fred William Greimann, Sheffield, Iowa
Application February 3, 1932, Serial No. 590,697
Renewed June 16, 1933
1 Claim. (Cl. 111—52)



A corn covering attachment for corn planting machines having a frame supported by wheels, comprising a U-shaped frame member adapted

to be secured to the frame of the machine forwardly of the wheels thereof and its leg portions extending rearwardly and disposed upon opposite sides of the wheel, a block mounted on each leg portion of said U-shaped frame for adjustment longitudinally thereof, a clamp carried by each of said blocks, and a shovel associated with each of said clamps and having its shank mounted for vertical adjustment therein.

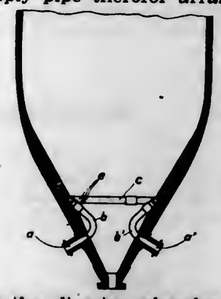
1,943,220
VIBRATOR
Walter L. Keefer, Chambersburg, Pa., assignor to The Wolf Company, Chambersburg, Pa., a corporation of Pennsylvania
Application December 28, 1932
Serial No. 649,213
3 Claims. (Cl. 74—14)



1. A vibrating device comprising a base, a spider secured to and projecting upwardly from said base, said spider having a horizontal bearing and an annular rim concentric with said bearing, two standards secured to and projecting upwardly from said base at opposite sides of said spider, said standards having bearings alined horizontally with said spider bearing, a horizontal shaft received in the three bearings, two relatively rotatable axially alined cupped pulleys having hubs mounted on said shaft between said standards and said spider, said pulleys having their cupped sides disposed toward said spider, the rims of said pulleys being annular, being concentric with said hubs and being disposed substantially in running contact with opposite sides of said annular rim of said spider, off-center weights secured within said cupped pulleys, axially alined beveled gears carried by said hubs of the pulleys and disposed adjacent said spider, and a beveled pinion mounted radially on said spider within the confines of the cupped pulleys and meshing with said beveled gears.

1,943,221
CELLULOSE DIGESTER
Fritz Krüger, Mannheim-Waldhof, Germany, assignor to Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany
Application November 5, 1931, Serial No. 573,287, and in Germany December 30, 1930
2 Claims. (Cl. 92—7)

1. A cellulose digester having fluid conduits for the pump-operated circulation of the digesting lye, the parts of the fluid conduits lying within the digester consisting essentially of an annular pipe of circular cross-section, perforated on one side to provide sieve-like apertures and a short supply pipe therefor arranged close to



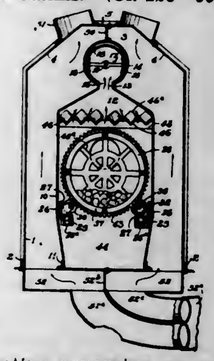
the wall of the digester whereby fluid will be squirted in divergent jets into the digester.

1,943,222
MUSICAL TAP DANCING SHOE
Emanuele Landi, New York, N. Y.
Application January 16, 1933. Serial No. 652,038
1 Claim. (Cl. 36—8.3)



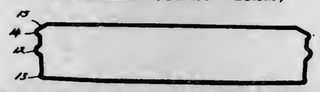
The combination with a dancing shoe of a casing secured to and partly set in the sole of the shoe and having an arcuate bottom positioned at an angle to the sole, a bell within said casing and including a shell and a pivotally mounted hammer, a vertical plunger adapted to contact the floor and when impacted thereagainst to cause the hammer to strike said shell, spring means normally holding said hammer away from said shell, and spring means normally holding the lower end of said plunger below the bottom of said casing, the latter having openings for emitting sounds.

1,943,223
HEATING APPARATUS
George William Lutz, Dayton, Ohio
Application December 12, 1931
Serial No. 580,605
3 Claims. (Cl. 126—99)



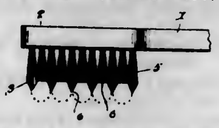
1. In a heating apparatus, an outer casing, a fire box therein, having a throat portion, a long substantially cylindrical flue passage connected to the throat portion of said fire box and coextensive with the latter, in said casing, an axial shaft mounted for rotation in said flue passage, a crank for turning said shaft, and a damper mounted on said shaft, and co-extensive with the depth of the fire box, to control the admission of the combustion gases from the fire box to the flue.

1,943,224
METHOD OF FORMING BRAKE DRUMS
John MacLennan, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a corporation of New York
Application July 18, 1932. Serial No. 623,243
6 Claims. (Cl. 29—152.2)



1. The method of forming a brake drum, which comprises cupping a sheet metal blank, rolling the flange of the cupped blank to form an outwardly extending annular bead therein intermediate its edges and to decrease the width of the flange, again rolling the flange to form a plurality of outwardly extending beads therein, shrinking the roller blank to make the flange round and of predetermined dimensions and to stabilize the metal, and then casting a lining within the flange.

1,943,225
TOOTHBRUSH
Harold W. McIntyre, Sweetwater, Tex.
Application May 1, 1933. Serial No. 668,846
1 Claim. (Cl. 15—167)



A toothbrush including a handle having a head, pairs of tufts of bristles secured to the head in parallel rows, an intermediate row of tufts of bristles secured to the head between the parallel rows of tufts of bristles and with each tuft of bristles of the intermediate row positioned between pairs of tufts of bristles of the parallel rows, said intermediate row of tufts of bristles being of a shorter length than the tufts of bristles of the parallel rows, said tufts of bristles having their ends cut to form opposite beveled faces and presenting to each tuft of bristles a crest, the crests of the parallel rows of tufts of bristles being arranged transversely of the head, while the crests of the intermediate row of tufts of bristles being arranged longitudinally of the head.

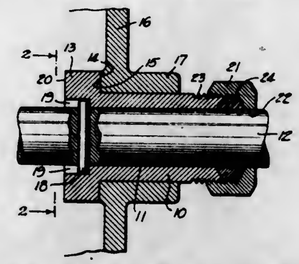
1,943,226
SPINDLE FOR NET MAKING MACHINES
Yeiichi Okuma, Fujitsuka-Cho, Higashi-Ku, Nagoya-Shi, Aichi-Ken, Japan
Application November 16, 1932
Serial No. 642,958
2 Claims. (Cl. 96—13)

1. A spindle for net making machines comprising a casing having a thread discharge nipple at one end and a bobbin receiving chamber at the other end, means for mounting a bobbin in said chamber, a tubular guide longitudinally movable in the casing between the bobbin chamber and the nipple to guide the thread passing from the bobbins to the nipple, a spring mounted in the casing normally tending to press the tubular guide toward the bobbin chamber, spring-pressed gripping means carried by the tubular guide normally operating to engage the thread passing through said guide, the engagement of the gripping means with the thread operating to move



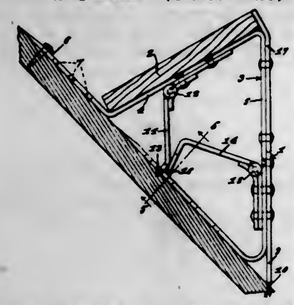
the guide against the action of its spring toward the nipple as the thread is drawn from the bobbin through the nipple, and means operating to trip the gripping means from the thread as the guide approaches the nipple, the release of the guide from the thread permitting the return of the guide to its initial position so that its gripping means again engages the thread to repeat the tensioning of the thread.

1,943,227
PRESSURE SEAL FOR SHAFTS
Marshall Parker, South Gate, Calif., assignor of one-half to Herbert S. Walker, South Gate, Calif.
Application April 25, 1932. Serial No. 607,439
2 Claims. (Cl. 308—134)



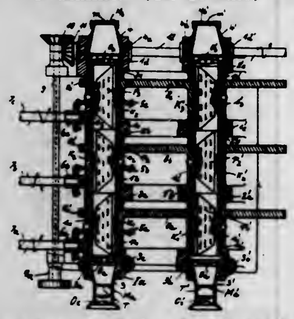
1. In a pressure fluid device, a casing having a bearing; a shaft extending from the casing through the bearing; a sleeve mounted on the shaft and journaled in the bearing; a radial flange on one end of the sleeve having a lateral sealing face adapted to be urged by fluid pressure into sealing engagement with the casing; the flange having diametrically opposed recesses communicating with the bore of the sleeve and extending longitudinally of the sleeve from the outer face of the flange; and a pin extending diametrically through the shaft into the recesses to provide a splined connection compelling the sleeve to rotate with the shaft while rendering the sleeve free to shift axially as wear occurs on the sealing face of the flange.

1,943,228
ROOF BRACKET
Niels L. Pearson, Chester, Conn.
Application April 25, 1933. Serial No. 667,929
2 Claims. (Cl. 304—20)



1. A roof bracket comprising a rest, a toe strip carried by the rest, a supporting strip carried by the rest, a base strip carried by the supporting strip and arranged in parallelism with the toe strip, a heel plate carried by the supporting strip to bite into the roof, a holding dog hinged to the rest to bite into the roof and a locking dog hinged to the supporting strip to bite into the roof and engage the holding dog.

1,943,229
APPARATUS FOR MECHANICALLY DETERMINING THE ALGEBRAIC SUM OF ANGLES OF ROTATION AND OF ANGULAR SPEEDS OF SHAFTS AND FOR TRANSMITTING SUCH SUMS TO OTHER APPARATUS
Karl Petschenig, Vienna, Austria, assignor to the firm Actiengesellschaft C. P. Goerz Optische Anstalt Actiova Spolecnost K. P. Goerz Opticky Ustav, Bratislava, Czechoslovakia, a company of Czechoslovakia
Application May 20, 1932, Serial No. 612,578, and in Germany May 29, 1931
5 Claims. (Cl. 88—2.7)



1. An apparatus of the class hereinbefore described comprising the combination of a plurality of reversing prisms arranged coaxially and in series with a pointer mark at one end of the said series, means including an angle scale provided at the opposite end of the series for observing the said pointer mark through the series of reversing prisms, and means comprising measuring shafts for rotating each of the said reversing prisms individually and independently of each other around their common axis whereby the apparent angle of rotation of the image of the said pointer mark on the said angle scale is made equal to the algebraic sum of the angles of rotation of the said measuring shafts.

1,943,230
NONREVERSING HAND CRANK
Carl Walter, Barmen, Germany
Application March 13, 1931, Serial No. 522,401, and in Germany March 14, 1930
10 Claims. (Cl. 123—185)



1. In combination, a shaft, a sleeve rotatable with respect to said shaft, a crank rotatable with respect to said sleeve, means operated by movement of said crank in one direction to clutch said crank to said sleeve and said sleeve to said shaft, and thereby to rotate said shaft, and means to prevent rotation of said sleeve in the opposite direction, the shaft rotating with respect to the sleeve upon overload.

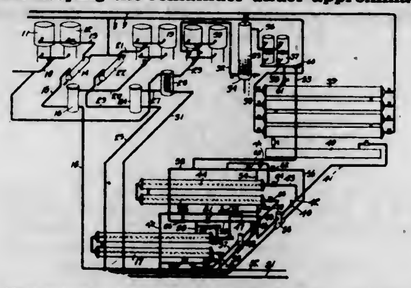
1,943,231
NITRO-MIXED FATTY ACID ESTERS OF CELLULOSE AND METHOD FOR PRODUCING
David R. Wiggam, Kennett Square, Pa., and John S. Tinsley, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 13, 1932 Serial No. 592,840
17 Claims. (Cl. 260—101)

1. The method of producing a nitro-mixed fatty acid ester which includes esterifying cellulose with a mixture of a fatty acid anhydride, a fatty acid of different molecular weight than the acid represented in the anhydride, a mineral acid catalyst and a salt of nitric acid with a weak base.

1,943,232
METHOD AND APPARATUS FOR PRODUCING LOW TEMPERATURE HIGH PRESSURE LIQUID CARBON DIOXIDE
Frank R. Zumbro, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a corporation of Pennsylvania
Application October 15, 1928. Serial No. 312,702
7 Claims. (Cl. 62—121)

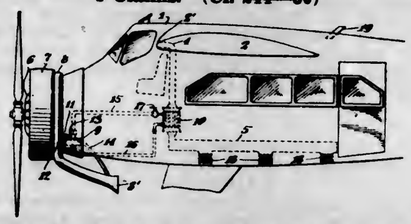
1. A pre-compressing and cooling system for a snow making system comprising a series of compressors having coolers arranged therebetween in series, a liquid filtering system in said series, a condenser, a plurality of liquid coolers, means for mixing a portion of high pressure, low temperature fluid with the suction gases to the compressors, whereby a low temperature gas is delivered to the compressor stages, substantially as set forth.

5. The method of making carbon dioxide ice which consists in compressing carbon dioxide through a series of stages, cooling the gas between each of the compressing stages and mixing cold gas therewith, condensing the gas after passing through the last compressing stage, expanding a portion of the liquid to cool the remainder while keeping the remainder under approximate-



ly the same pressure, expanding the cold liquid to a snow machine and conducting all gaseous carbon dioxide from the snow machine and introducing it into gaseous carbon dioxide prior to the entry of said gas into the first compression stage, substantially as set forth.

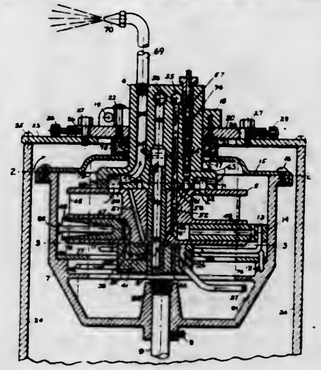
1,943,233
HEATING AND VENTILATING SYSTEM
Myron G. Beard, Farmingdale, N. Y., assignor to The Aviation Patent and Research Corporation, New York, N. Y., a corporation of New York
Application August 28, 1931. Serial No. 559,921
3 Claims. (Cl. 244—30)



1. A heating and ventilating system for the cabin of an engine propelled aircraft comprising conduits open to the outside atmosphere and extending into the cabin for conveying air therein into, valve controlled air registers in the conduits in the cabin and a Venturi outlet for said air from the cabin, means for heating the air while in the conduit prior to the entrance of the air into the cabin, said means comprising a pair of containers of fluid of low freezing and high boiling point with communicating pipes therebetween, one of said containers being arranged adjacent to the air intake conduit and the other adjacent the exhaust pipe of the engine of said aircraft, valve means for controlling the circulation of said fluid, and thermostatically controlled valve means for controlling the direction of flow of the engine exhaust gases so as to control the heating effect thereof on said fluid.

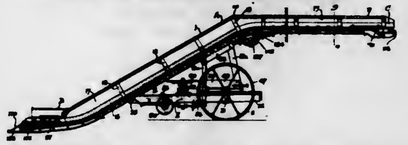
1,943,234
LIQUID AND GAS SPRAY PUMP
William Douglas Carter, Caldwell, N. J.
Application May 6, 1930. Serial No. 450,156
28 Claims. (Cl. 261—28)

24. In a rotary pumping device, the combination of a casing for holding a revolving ring of liquid the inner free surface of which liquid tends to assume cylindrical shape, a wheel having pockets formed therein, said wheel being eccentrically mounted to rotate in said casing, conduit means in said casing extending substantially beneath said surface of said ring of liquid for withdrawing a supply of liquid from said ring of liquid, a discharge conduit in said casing, said discharge



conduit having an inlet orifice located beneath said wheel at said inner free surface of said revolving liquid to convey surplus liquid from said ring of liquid, and a third conduit leading from a source of liquid supply and communicating with said wheel.

1,943,235
COAL LOADING MACHINE
Thomas A. Collison, Mount Vernon, Ill., assignor to Mt. Vernon Car Manufacturing Co., Mount Vernon, Ill., a corporation of Illinois
Application June 14, 1930. Serial No. 461,213
15 Claims. (Cl. 198—11)



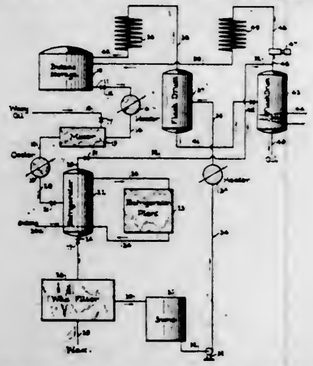
1. A conveyer frame for loading machines comprising a pair of rigid side members at each side of the frame, a bed plate composed of a single metallic sheet extending the entire length of the frame, means for clamping the edges of said bed plate between the side members at each side of the frame, and a stationary tracked conveyer shoe mounted in the frame at each end of said bed plate.

1,943,236
DEWAXING MINERAL OILS
Roy N. Giles, Casper, Wyo., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 31, 1931. Serial No. 560,361
21 Claims. (Cl. 196—18)

1. The method of removing wax from a wax-bearing oil which comprises heating said wax-bearing oil with butane to effect complete solution of oil and wax therein, refrigerating the solution to cause crystallization of the wax, and mechanically separating said wax from said butane-oil mixture.

21. The process of separating wax mixture from heavy lubricating oil stock containing the same which comprises dissolving one volume of said stock in from two and one-half to twelve volumes of a liquefied normally gaseous hydro-

carbon diluent at a temperature of about 140° F. and a pressure of at least 110 pounds per square inch, releasing the pressure on the system whereby the diluent is allowed to vaporize, removing said vapors at a rate to effect chilling at a rate of from 35° to 350° per hour, leaving at least



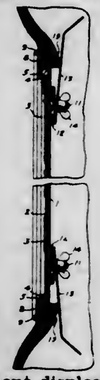
about two and one-half parts of diluent per part of oil in the cooled slurry for facilitating wax separation, mechanically removing solidified wax from the diluted oil, removing diluent from the diluted oil by heating it at superatmospheric pressure, and finally removing the last traces of diluent at a lower pressure.

1,943,237

ADVERTISING DEVICE

Ralph H. Harrington, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application September 21, 1932
Serial No. 634,131
4 Claims. (Cl. 40—125)



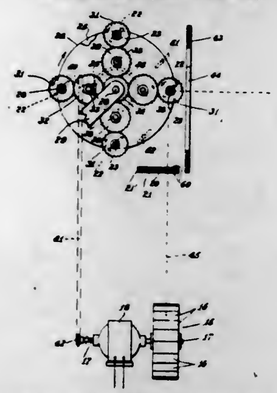
1. An advertisement display frame for mounting in a tire casing having bead portions comprising, a sheet metal plate having a radially extending flange portion offset outwardly from said plate and designed to overlie the bead portion of the tire casing, an annular axially extending portion connecting said flange and said plate, said annular portion slightly overhanging the edge portions of said plate to provide a spring ring engaging face inclined toward the plate, and a spring ring designed to engage the inclined face whereby said spring ring is forced against said plate portion by the expansion forces in said ring and means for securing the frame to a bead of the tire.

1,943,238

TELEVISION METHOD AND APPARATUS

John V. L. Hogan, Forest Hills, N. Y., and Harold P. Donle, Meriden, Conn., assignors to Radio Inventions, Inc., New York, N. Y., a corporation of New York

Application September 5, 1931. Serial No. 561,380
9 Claims. (Cl. 178—6)



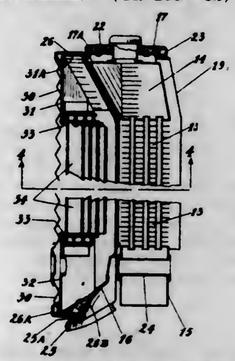
1. Television apparatus comprising a light source, line scanning means operating in conjunction therewith, selective uni-directional diffusing means receiving the line-scanned light, a system of mirrors receiving light from said diffusing means, and planetary gear means for moving each of said mirrors successively across the field of view and maintaining them substantially mutually parallel so as to cause the rays reflected from said mirrors to any point of image viewing to appear emergent from successive portions of said mirrors.

1,943,239

CONTROL SHUTTER FOR ENGINE RADIATORS

Udo K. Johannsen, Cortland, N. Y., assignors to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York

Application November 3, 1931. Serial No. 572,753
10 Claims. (Cl. 189—62)



1. In an automobile shutter assembly serving to control air-flow between a pair of radiator tanks and through an interposed cellular core including a front face and complementary end faces having a U-shaped housing shell mounted astride one of the tanks to shelter the respective core end faces and the cross-section of which

shell is given a channel-like profile of which one flange is inturned toward the core, an apron mounted to mask the other tank therebehind and which apron is provided with a marginal bead that extends forwardly of said one inturned flange in a bridging relation to the free flange extremities, and a shutter-carrying frame of the detachable type exteriorly mounted in overlapping relation to the innermost marginal edge of said one flange and which frame is supported upon and extends into cooperative engagement with the apron bead to make an air-seal therewith.

1,943,240

MAGNETIC INTERRUPTER

William P. Lear, Chicago, Ill., and Marvin E. Nulsen, Indianapolis, Ind., assignors to P. R. Mallory & Co., Incorporated, Indianapolis, Ind., a corporation of Indiana

Application September 27, 1932
Serial No. 635,057
8 Claims. (Cl. 200—87)



1. In a potential changer operated with a direct current source as the "B" supply of an automobile radio, an article of manufacture consisting of a removable mechanical interrupter unit comprising a base of iron having prongs insulated therefrom and adapted to cooperate with receptive jacks in the electrical circuit of the potential changer, a magnetic interrupter electrically connected to the prongs of said base, a layer of resilient material interposed between said magnetic interrupter and said base, a sound isolating casing to cooperate with said layer of resilient material to form a substantially sound-proof enclosure for said interrupter, spiders of metal of high specific gravity secured to the ends of the frame structure of said interrupter to center said interrupter in said casing and to steady the mechanical oscillation of the reed system thereof, and a case of iron to cooperate with said base to form an enclosing iron case for said magnetic interrupter.

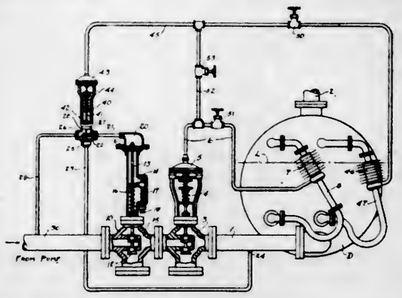
1,943,241

MEANS FOR CONTROLLING FLUID FLOW

Henry J. Mastenbrook, Cleveland Heights, Ohio, assignor to The Swartwout Company, Cleveland, Ohio, a corporation of Ohio

Application December 6, 1928. Serial No. 324,187
26 Claims. (Cl. 122—451.2)

12. In a boiler feed pipe, the combination of a fluid actuated valve having a part subjected to opposed fluid pressures for moving it, means for establishing valve outlet pressures on one side of said part, means for conducting fluid from said pipe to the other side of said part, and means responsive to changes in boiler condi-



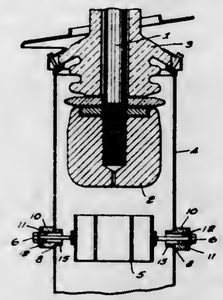
tions associated with said last named means for controlling the flow of fluid therethrough.

1,943,242

INSULATING MOUNTING FOR ANODE GRIDS

John T. Mathews, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application May 6, 1931. Serial No. 535,409
3 Claims. (Cl. 250—27.5)



1. An insulating support for an anode grid comprising a tubular shield surrounding an anode, a grid within said shield, grid-supporting members interposed between the grid and the shield and embodying tubular insulators, said insulators projecting inwardly and being circumferentially spaced from the cooperating elements of the supporting members, and tubular screens surrounding and spaced from the inner portions of said insulators.

1,943,243

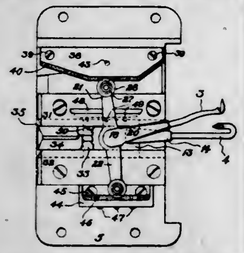
LUBRICATING MEANS

Joseph M. Merrow, Hartford, Conn., assignor to The Merrow Machine Company, Hartford, Conn., a corporation of Connecticut

Application June 17, 1932. Serial No. 617,849
7 Claims. (Cl. 112—256)

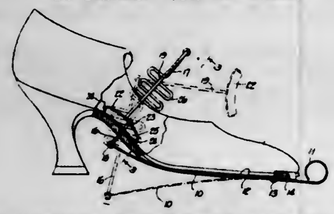
1. Mechanism including in combination, a stationary support, a carrier movably associated with the support, an element pivotally associated with the carrier, said element having a stud associated therewith at an extremity of the element which terminates in an arcuate surface concentric to the pivotal axis of the element, whereby said surface, in any position thereof established by movement of the carrier on its support or movement of the element upon its axis, remains

tangent to a definite plane, and means for supplying lubricant to the arcuate surface at different



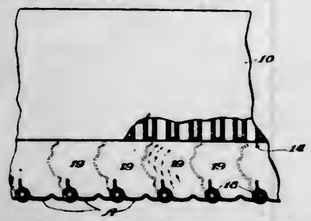
points in the plane to which said surface may become tangent.

1,943,244
BOOT TREE
Peter J. Muenchen, Los Angeles, Calif.
Application October 27, 1931. Serial No. 571,398
12 Claims. (Cl. 12—129.1)



2. A boot tree comprising a resilient member having means at one end attachable to the sole of a shoe at the toe portion thereof while the member extends longitudinally of the shoe substantially to the shank portion thereof, a yieldable abutment member connected to the opposite end of the resilient member and extending laterally therefrom; and means connected to the abutment member and engageable with the shank portion of the shoe interiorly thereof to place the resilient member under stress by drawing the resilient member towards the sole for co-action of the resilient member with the first means in straightening the sole and holding the latter in a straightened position.

1,943,245
VEHICLE-ENGINE RADIATOR SHUTTER
Edgar G. Petersen, Chicago, Ill., assignor to Pines Winterfront Company, Chicago, Ill., a corporation of Delaware
Application June 7, 1930. Serial No. 459,665
7 Claims. (Cl. 189—62)



1. A vehicle shutter equipment comprising a plurality of pivoted shutters, each having a round beaded longitudinal edge, each shutter cooperating with the other to constitute a variable obstruction to the flow of engine cooling air, each of said shutters comprising a closure portion, an adjacent portion extending obliquely rearwardly therefrom and a contiguous free edge portion directed rearwardly and substantially at right angles to the plane of the closure portion.

1,943,246
PYROLYSIS OF HYDROCARBON GASES
Charles C. Towne, Elizabeth, N. J., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application January 28, 1931
Serial No. 511,928
2 Claims. (Cl. 260—168)

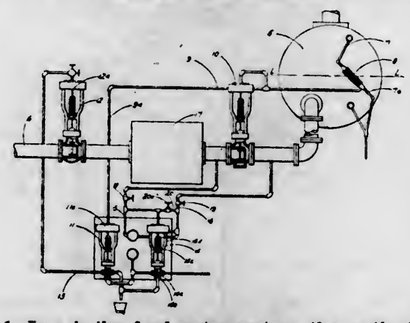
1. In the manufacture of liquid aromatic compounds, such as benzol and its homologues, from gaseous hydrocarbons, the process that comprises subjecting normally gaseous hydrocarbons containing a large proportion of paraffinic constituents heavier than methane, to a conversion temperature of about 650° to about 950° C. while in the presence of a clay type of catalyst selected from the group consisting of bauxite and fuller's earth, and separating the aromatic compounds from the products of reaction.

1,943,247
POTHEAD DEVICE
Cecil W. Sward, Chicago, Ill., assignor to G. & W. Electric Specialty Co., Chicago, Ill., a corporation of Illinois
Application August 13, 1929. Serial No. 385,643
4 Claims. (Cl. 173—353)



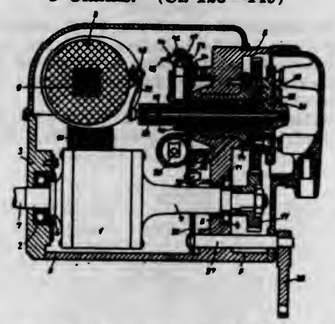
2. A device of the class specified having a tubular insulator adapted to receive a cable at its lower end and open at its upper end, a tubular transparent member mounted at the upper end of the insulator and arranged so that said transparent member forms substantially a continuation of the upper end of the tubular insulator, a cap mounted upon the upper end of said transparent member and a metallic connecting member arranged within the upper end of the tubular insulator and in the tubular transparent member and having its lower end adapted for connection with the upper end of the cable and having its upper end threaded to fit into a threaded socket of said cap, said metallic connecting member having upwardly tapered spacing webs for centering the same axially within said tubular insulator and said transparent member, and said tubular insulator having similar webs thereon which co-operate with said spacing webs to prevent rotation of said metallic member.

1,943,248
FEED WATER REGULATION
Denton K. Swartwout, Jr., Cleveland, Ohio, assignor to The Swartwout Company, Cleveland, Ohio, a corporation of Ohio
Application March 25, 1931. Serial No. 525,153
9 Claims. (Cl. 122—451.2)



1. In a boiler feed water system, the method of controlling the differential pressure across a feed water valve which consists in utilizing the differential pressure to control a separate operating pressure which in turn is used to effect control of the excess pressure in advance of said valve.

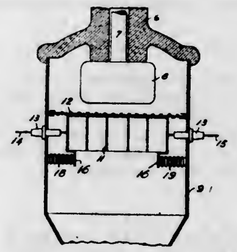
1,943,249
MAGNETO IGNITION APPARATUS
Wilhelm Walther, Stuttgart, and Heinrich Bischoff, Stuttgart-Botnang, Germany, assignors to Robert Bosch Aktiengesellschaft, Stuttgart, Germany
Application February 12, 1932, Serial No. 592,646, and in Germany February 21, 1931
5 Claims. (Cl. 123—149)



1. A magneto ignition apparatus comprising a rotary magnet, a stationary armature, an interrupter, a chamber enclosing said magnet, armature and interrupter, a distributor having an extension thereon, a cam mounted on said extension operating said interrupter, a chamber enclosing said distributor and a wall common to and separating said chambers.

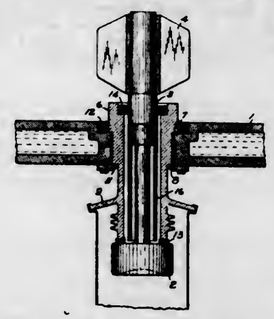
1,943,250
ANODE GRID STRUCTURE
Stefan Widmer, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application November 16, 1931, Serial No. 575,488, and in Germany October 11, 1930
4 Claims. (Cl. 250—27.5)

1. In combination with an electric current rectifier of the vapor arcing type having an electrode constituting a terminal for the establishment of arcs thereto, of a grid structure arranged within the path of said arcs comprising an element formed of plates extending substantially parallel to the longitudinal axis of said arc path of such length and so spaced relative to each other as to establish such electric space charge therebetween as to control the flow of electrons and ions in said path, and a wire mesh element



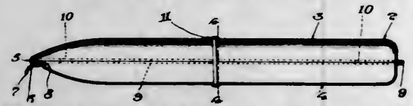
extending transversely to the longitudinal axis of said path, the said mesh element being supported intermediate said electrode and said plates in direct mechanical contact with the latter to thereby absorb the heat of arcs flowing in said path whereby the density of vapor about said electrode is reduced during momentary non-operating periods thereof.

1,943,251
RECTIFIER ANODE BUSHING
Stefan Widmer and Arthur Gaudenzi, Baden, Switzerland, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application November 16, 1931, Serial No. 575,489, and in Germany November 12, 1930
3 Claims. (Cl. 250—27.5)



1. In an anode structure for electric power rectifiers of the metallic vapor type, an anode having a head portion and a stem portion, a poorly heat conductive electric insulator arranged about the stem portion of said anode and spaced therefrom, and a cylinder of highly heat conductive metal arranged about the stem of said anode in spaced relation therewith and supported therefrom out of contact with the head portion of said anode, the inner and outer surfaces of said cylinder being highly polished to thereby diminish the transfer of heat thereto from the stem of said anode, and to also diminish the transfer of heat therefrom to said insulator.

1,943,252
SCRAPER
Alfred W. Abrahamsen, Queens Village, N. Y., assignor to Hook Scraper Company, Incorporated, Queens Village, N. Y., a corporation of New York
Application February 17, 1932. Serial No. 593,471
17 Claims. (Cl. 145—47)

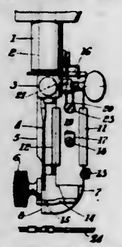


17. A scraper comprising a two-part elongated handle, a detachable blade, means carried by the handle for holding the blade in position, and means inclined to the longitudinal axis of the handle for clamping the first named means in engagement with the blade.

1,943,253
TOILET SOAP POWDER
William H. Alton, New York, N. Y., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application November 16, 1929
Serial No. 407,789
5 Claims. (Cl. 87—16)

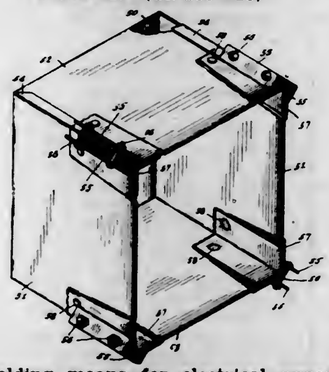
1. A toilet soap powder comprising finely divided high grade soap and pyrophyllite in the proportions of about 25% of soap to 75% of pyrophyllite, and both ingredients being in a finely subdivided state, the particles of pyrophyllite for the most part or entirely passing through a 100 mesh screen and the soap particles being of similar fineness and the particles of pyrophyllite and soap being thoroughly intermixed with each other, said soap particles dissolving almost instantaneously when the powder is added to water.

1,943,254
DARNING FOOT FOR SEWING MACHINES
William L. Barron, Laurence Harbor, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 25, 1932. Serial No. 639,403
5 Claims. (Cl. 112—236)



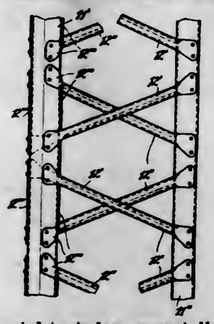
1. A darning foot for sewing machines comprising, a plate adapted to be fixed to the presser-bar of a machine, said plate being formed with a rearwardly extending longitudinal cavity, a presser-member mounted to reciprocate vertically on said plate, a compression spring disposed within the rearwardly extending cavity in the plate, said spring having one of its ends acting against the plate and its other end against a stop carried by the presser-member, and a laterally extending arm carried by said presser-member, said arm being adapted to contact with the needle-clamp when it approaches its highest position to cause the needle-bar to lift the presser-member.

1,943,255
RADIO CONTAINER
Earl C. Booth, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application March 30, 1933. Serial No. 663,564
6 Claims. (Cl. 250—16)



1. Shielding means for electrical apparatus, comprising a box adapted to contain the electrical apparatus and having an open end, a cover for said box, said cover being formed of conducting material and having an end wall, side walls, and an open end adapted to receive said box, the adjacent side walls near the open end of the cover being free from any rigid connection at their meeting edges, and clamping means mounted at each edge of said cover near the open end thereof and acting between adjacent side walls for constricting such open end.

1,943,256
LIGHT WEIGHT GIRDER FOR AIRCRAFT
Ludwig Dürr, Friedrichshafen, Germany, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Bodensee, Germany
Application January 8, 1931, Serial No. 507,409, and in Germany January 29, 1930
8 Claims. (Cl. 189—37)



1. A light weight girder, especially for aircraft comprising; at least three substantially parallel main chords made from open channels; and main braces connecting said channels with one another; said braces each having a first and a second chord portion and connecting brace portions; said channels in cross section having substantially polygonal shape; said first chord portions of said main braces being connected to one leg of said channels, and said second chord portions of said main braces being connected to another leg of said channels.

1,943,257
METHOD OF ACCELERATING THE SATURATION OF FABRIC BASED SHEETS WITH BITUMINOUS MATERIAL
Norman P. Harshberger, Pasadena, Calif., assignor to Bakelite Building Products Co., Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application April 11, 1930
Serial No. 443,600
5 Claims. (Cl. 91—68)

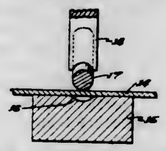
1. The method of manufacturing composition roofing consisting of treating a sheet of felt with a solution of starch which when dry will form a smooth coating on the fibres of said felt, and then applying a bituminous waterproofing material to the felt sheet thus treated, said waterproofing material quickly penetrating the fibres of the sheet due to the smooth coating thereon.

1,943,258
METHOD OF PRODUCING BUILDING MATERIAL
Norman P. Harshberger, Scarsdale, N. Y., assignor to Bakelite Building Products Co., Inc., New York, N. Y., a corporation of Delaware
Application September 20, 1930
Serial No. 483,311
1 Claim. (Cl. 91—70)



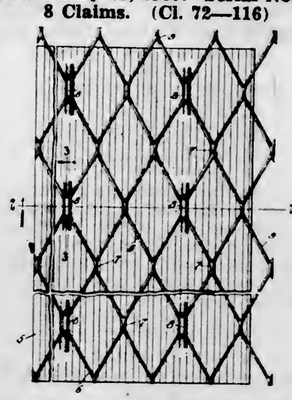
The method of producing roofing and siding elements comprising impregnating a fibrous roofing material with a starch containing liquid responsive to heat and pressure to maintain the material in a desired form, forming the material into curved shapes by the application of heat and pressure, and applying a weather-proofing bituminous substance to the stiffened material, said substance being capable of continuously withstanding outdoor weather conditions.

1,943,259
METHOD OF ELECTRIC WELDING
Grover A. Hughes, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan
Application May 18, 1929. Serial No. 364,093
4 Claims. (Cl. 219—10)



1. The method of electrically welding together two members of different thicknesses which consists in causing said members to contact at the desired point of welding, leaving the thinner member unsupported at said point of contact, causing sufficient pressure to be brought to bear to cause the thicker element to bodily deform the thinner element at the point of welding and welding together the thicker member to the deformed portion of the thinner member by passing a welding current through said members at the point of contact and deformation.

1,943,260
PLASTER SUPPORTING STRUCTURE
Julius Kahn and Walter F. Schulz, Youngstown, Ohio, assignors to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan
Application July 29, 1930. Serial No. 471,522
8 Claims. (Cl. 72—116)



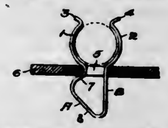
1. A plaster supporting structure, comprising a backing sheet having a corrugated surface, and a sheet of expanded metal overlying the corrugated surface and secured to the backing sheet, said sheet of expanded metal having substantially flat faced strands located on edge with relation to the corrugations and extending across the corrugations and the spaces between them.

1,943,261
CONDUIT-HOLDING DEVICE
Carl L. Knutson, Maywood, Ill., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 10, 1931
Serial No. 580,087
3 Claims. (Cl. 24—73)



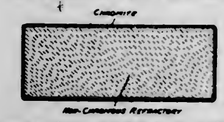
3. A spring fastener comprising two arms of different length connected together at one end thereof, the shorter arm having shoulders for engaging a support, and the longer arm being bent to engage an article.

1,943,262
CONDUIT-HOLDING DEVICE
Carl L. Knutson, Maywood, Ill., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 10, 1931
Serial No. 580,088
5 Claims. (Cl. 24—73)



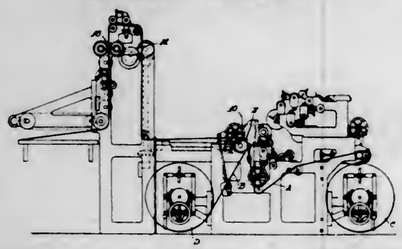
5. A spring fastener comprising a strip of metal bent adjacent the midportion thereof to provide two arms, each arm having a shoulder for engaging a support and having the outer ends thereof bent to receive an article.

1,943,263
REFRACTORY AND METHOD OF MANUFACTURE
Kenneth M. Simpson, New York, N. Y., assignor to International Chromium Process Corporation, New York, N. Y., a corporation of Delaware
Application February 23, 1932. Serial No. 594,673
13 Claims. (Cl. 25—156)



12. A process for producing refractories from fire-clay and chrome ore which comprises pressing the major portion of the clay into bricks, mixing a small amount of the clay with the chrome ore and water, covering the bricks with the resultant mixture, and then drying and burning the bricks.

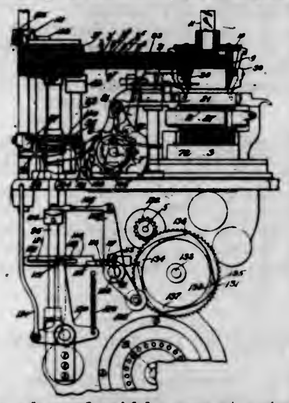
1,943,264
METHOD OF MAKING MANIFOLD PAPER WEBS
Louis M. Snyder, Brooklyn, N. Y., assignor, by mesne assignments, to George Schorling, Woodridge, N. J.
Application October 29, 1929, Serial No. 403,184
Renewed April 20, 1933
13 Claims. (Cl. 270—18)



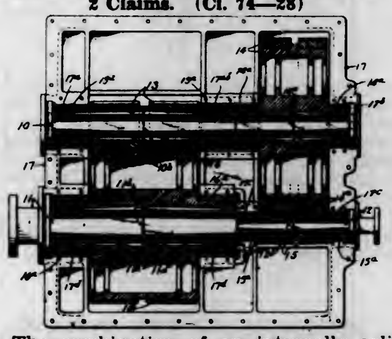
2. The method of forming manifold writing strips which consists in superposing a copy receiving web upon a transfer web, each of which webs are of greater width than the finished strips, printing said copy receiving web to present a plurality of form blanks thereon, severing said webs longitudinally between the printed forms to provide a plurality of copy receiving strips, each having an associated transfer sheet and transversely perforating the severed strips between the printed forms.

1,943,265
KNITTING MACHINE
Albert E. Stewart, Franklin, N. H., assignor to Acme Knitting Machine & Needle Company, Franklin, N. H., a corporation of New Hampshire
Application November 9, 1929
Serial No. 405,949
14 Claims. (Cl. 66—135)

1. A knitting machine having, in combination, a series of needles, a support for said needles, means for operating said needles to produce a knit fabric, a series of loopers associated, respectively, with individual needles of said series and serving to guide supplemental yarns, respectively, to their respective needles, each of said loopers having an open sided fulcrum socket in one edge thereof, a fulcrum ring entering the sockets of said loopers and on which the loopers are mounted for rocking movement, a looper head on which said ring is mounted, and means for engaging the edges of said loopers at points opposite their respective sockets to hold the loopers seated on said fulcrum ring.



1,943,266
AUTOMATIC ADJUSTING SPLINED GEAR-WHEEL-SEAT
Mark M. Condron, Memphis, Tenn.
Application April 2, 1932. Serial No. 602,768
2 Claims. (Cl. 74—28)

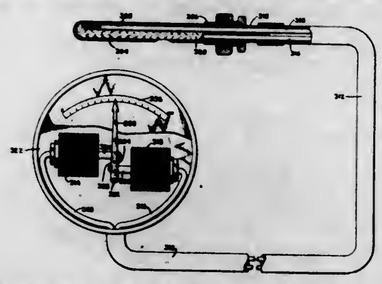


1. The combination of an internally splined gear wheel, bearings in which said wheel is mounted to turn, and a splined shaft, the splines of the gear wheel being substantially rectilinear on all sides, the splines of the shaft including gear wheel bearing seats which are thicker and wider at their middle parts than at their ends, the splines of the gear-wheel being respectively seated between and against splines of the shaft whereby the splined shaft is permitted to have free movement for adjusting itself to eliminate the tendency to mal-adjust the wheel on its bearings, substantially as described for the purposes specified.

1,943,267
REMOTE TEMPERATURE INDICATOR
Clarence A. de Giers, Forest Hills, N. Y., assignor, by mesne assignments, to Richard C. Murphy, New York, N. Y.
Original application October 1, 1930, Serial No. 485,808. Divided and this application April 27, 1932. Serial No. 607,683
1 Claim. (Cl. 73—52)

Apparatus for indicating temperature at a remote point, comprising in combination, a bulb adapted to be exposed to change of temperature,

an indicator remote from said bulb, and a pair of sylphons operatively connected to said indicator, one of said sylphons being connected by a tube to the interior of said bulb, the other sylphon having a similar tube leading to said bulb but closed at its end adjacent the bulb, said first sylphon being effective to move said indicator in response to change of temperature of said bulb,

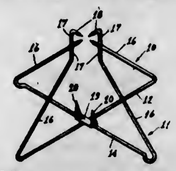


and said second sylphon being effective to compensate for change of temperature of parts of the apparatus between said bulb and said indicator, said indicator including a pointer, and the means for operatively connecting said sylphons to said indicator including a link fulcrumed on said pointer and means for pivotally connecting each of said sylphons to an opposite end of said link, substantially as described.

1,943,268
CHEMISTRY
Joseph Fleischer, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware
No Drawing. Application April 30, 1932
Serial No. 608,573
15 Claims. (Cl. 62—170)

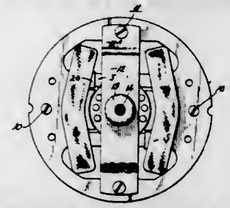
1. A hold-over solution for refrigerating apparatus comprising a plurality of liquids, in the mixture of which one liquid freezes at a constant temperature leaving liquid remaining interspersed between the crystals.

1,943,269
CHRISTMAS TREE HOLDER
Charles E. Holden, Chicago, Ill.
Application January 26, 1933. Serial No. 653,574
2 Claims. (Cl. 248—38)



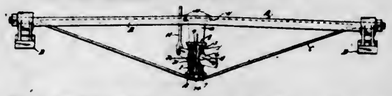
2. A tree holder comprising a pair of detachable sections each having a base and two upwardly and inwardly extending arms terminating in spurs adapted to be driven into the trunk of the tree, a member centrally secured to one of said bases and defining therewith a passage through which said other section may be passed lengthwise in assembling said sections in operative position, said other section having an offset portion cooperating with the remaining section within said passage to prevent relative lateral movement of said sections, and a spur carried by said member and adapted to be driven into the butt end of the tree.

1,943,270
SHADED-POLE INDUCTION MOTOR
James J. Gough, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 2, 1933. Serial No. 673,987
11 Claims. (Cl. 172—278)



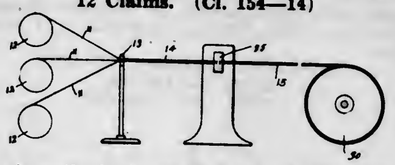
1. In a stator core, two counterpart and relatively reversed core-halves, each comprising a semi-annular frame portion and a salient portion extending radially inward of the said frame portion from the midlength of the latter; the said salient portion having its free end concaved approximately as a semi-cylindrical surface about an axis at right angles to the general plane of the said frame portion; the adjacent ends of the two frame portions of the two core-halves as well as the adjacent ends of the two salient portions presenting interengaging mortise and tenon formations; and fastening means connecting the two core-halves, the fastening means being spaced from the salient portions of both halves.

1,943,271
BRAKE BEAM STRUT
Jacob Ivemeyer, Beardstown, Ill.
Application February 16, 1933. Serial No. 657,003
8 Claims. (Cl. 188—232)



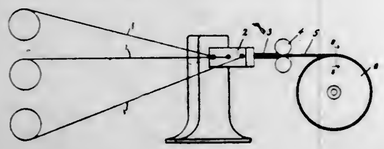
1. In a brake beam strut, a body portion having a pair of slots extending and crossing at right angles, the said slots having sockets at their outer sides, and pivot pin blocks adapted for removable mounting in the said sockets.

1,943,272
TIRE BEAD
William G. Lerch, Akron, Ohio, assignor, by direct and mesne assignments, to National-Standard Company, Niles, Mich., a corporation of Michigan
Application July 22, 1931. Serial No. 552,401
12 Claims. (Cl. 154—14)



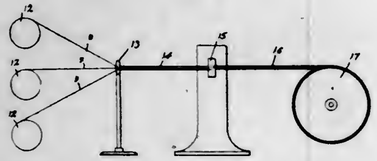
1. A method of reenforcing tire beads which comprises the successive steps of grouping a plurality of bare wires in untwisted generally cylindrical individually spaced arrangement, surrounding said wires with rubber composition to form a cable and arranging said cable in turns in side by side relation in successive superposed layers of regularly diminishing width.

1,943,273
TIRE BEAD
William G. Lerch, Akron, Ohio, assignor, by direct and mesne assignments, to National-Standard Company, Niles, Mich., a corporation of Michigan
Application May 13, 1932. Serial No. 611,001
12 Claims. (Cl. 154—14)



1. A method of forming tire beads which comprises coating wires separately with a sticky plastic composition, grouping the coated wires in paraxial relation, arranging said wires in successive turns in a formation of generally triangular cross section with the base inward, and maintaining the wires in formation by the mutual adhesion of said coatings.

1,943,274
TIRE BEAD
William G. Lerch, Akron, Ohio, assignor, by direct and mesne assignments, to National-Standard Company, Niles, Mich., a corporation of Michigan
Application July 22, 1932. Serial No. 624,041
15 Claims. (Cl. 154—14)



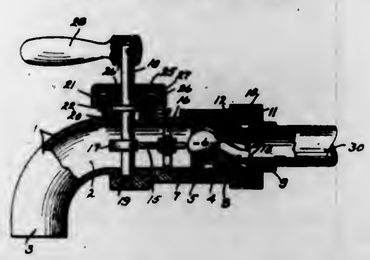
1. A method of forming material for the reenforcement of tire beads which comprises grouping a plurality of bare wires in paraxial contacting arrangement and molding a covering of a flexible plastic composition in intimate contact with the individual wires of the grouping, binding the same in the form of a cable, while leaving the individual wires in contactual relation.

1,943,275
TIRE BEAD
William G. Lerch, Akron, Ohio, assignor, by direct and mesne assignments, to National-Standard Company, Niles, Mich., a corporation of Michigan
Application December 29, 1932
Serial No. 649,286
7 Claims. (Cl. 154—14)



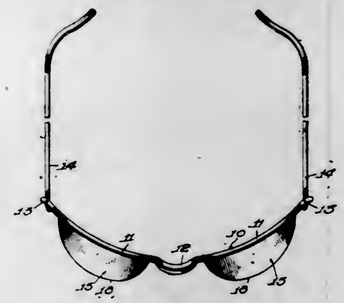
1. A method of forming tire beads which comprises grouping a plurality of wires in a plurality of groups within a surrounding mass of rubber, and maintaining said wires as groups in substantially their original position while causing the rubber to flow to the top of the bead.

1,943,276
FAUCET
Lewis J. Miller, Syracuse, N. Y., assignor of one-third to George E. Wiley
Application January 18, 1932. Serial No. 587,189
9 Claims. (Cl. 251—131)



1. In a faucet of the class described, a casing having a fluid passage therethrough and provided with a valve seat in said passage, a valve movable axially into and out of engagement with said seat, a valve guide positioned adjacent the seat for maintaining the valve in substantially coaxial alignment with said seat, said guide being provided with spiral grooves, and arms associated with the valve adapted to travel in said grooves for rotating the valve during the axial movement thereof.

1,943,277
EYESHADE
Fred E. Place, Peekskill, N. Y.
Application October 7, 1932. Serial No. 636,757
3 Claims. (Cl. 2—12)

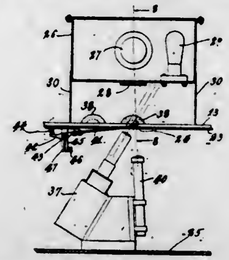


1. An eyeshade comprising an integral frame curved horizontally substantially throughout its length to substantially conform to the shape of the forehead, said frame having a vertically arched bridge formed centrally thereof and arched rims on opposite sides of said bridge, the inner extremities of said rims coinciding with and terminating at the lower extremities of said bridge, the outer extremities of said rims terminating below the inner extremities thereof when the frame is in position on the wearer, and a shield element for each rim having an upwardly arched edge portion corresponding in shape to and permanently secured to the corresponding rim, the remaining portions of each shield element projecting outwardly and downwardly toward its lower forward edge portion, the extremities of the upper edge portion of each shield element terminating substantially at the extremities of its rim, the lower forward edge portion of each shield element being curved horizontally and arched vertically intermediate its ends.

1,943,278
METHOD OF AND APPARATUS FOR CLASSIFYING FRUIT AND VEGETABLES
Albert R. Thompson and Kaare Omsted, San Jose, Calif., assignors, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif, a corporation of California
Application April 14, 1930. Serial No. 444,049
13 Claims. (Cl. 209—111)

1. A method of grading fruit for ripeness, comprising subjecting fruit to illumination substantially uniform in intensity, measuring the intensity of light transmitted through the fruit, and sorting the fruit according to a scale of such intensities.

4. In a device for selectively classifying fruit, the combination of a photoelectric cell adapted to receive light transmitted through fruit at a point of selection, light projecting means adapted to project a light of substantially uniform intensity upon fruit at a point of selection, means for bringing fruit to be tested to said point of selection, a thermionic tube circuit connected to



said photoelectric cell and adapted to amplify current variations of said photoelectric cell, means for measuring said amplified current variations, and means for maintaining the current output of said photoelectric cell at a predetermined minimum.

Patents Nos. 1,943,279 to 1,944,146

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January 16, 1934

Trade-Marks	119—No.	309,438 to No.	309,556, inclusive.
Labels	19—No.	43,106 to No.	43,124, inclusive.
Prints	4—No.	14,507 to No.	14,510, inclusive.
Reissues	11—No.	19,045 to No.	19,055, inclusive.
Plant Patent	1—No.	85	
Designs	39—No.	91,344 to No.	91,382, inclusive.
Patents	868—No.	1,943,279 to No.	1,944,146, inclusive.
Total	1,061		

Trade-Marks Canceled

132,177. Portland cement. Indiana Portland Cement Company, Indianapolis, Ind. Registered June 15, 1920. Canceled December 5, 1933.

202,819. Ginger ale. Rapken and Company, Ltd., San Francisco, Calif. Registered September 1, 1925. Canceled November 29, 1933.

227,996. Windshield wipers of the squeegee type. American Bosch Magneto Corporation, Springfield, Mass. Registered May 17, 1927. Canceled December 18, 1933.

240,495. Certain named hardware and plumbing and steam fitting supplies. Mueller Brass Co., Port Huron, Mich. Registered March 27, 1928. Canceled December 18, 1933.

242,364. Certain named metals and metal castings and forgings. Mueller Brass Co., Port Huron, Mich. Registered May 22, 1928. Canceled December 18, 1933.

243,791. Motion pictures. Tiffany-Stahl Productions, Inc., New York, N. Y. Registered June 26, 1928. Canceled November 27, 1933.

249,779. Medicine. Knox Company, Kansas City, Mo. Registered November 20, 1928. Canceled December 20, 1933.

289,790. Ice cream. Love-Me Ice Cream Company, Milwaukee, Wis. Registered December 8, 1931. Canceled December 11, 1933.

306,013. Malt beverages. The Koch Beverage and Ice Co., doing business as The Koch Beverage Co., Wapakoneta, Ohio. Registered August 29, 1933. Canceled December 11, 1933.

Adjudicated Patents

(D. C. N. Y.) Farrand patent, No. 1,402,589, for rule, *Held* valid and infringed. *Hiram A. Farrand, Inc.*, v. *McCrory Stores Corporation*, 4 F. Supp. 829.

(C. C. A. Calif.) Petzoldt patent, No. 1,584,644, for power-lift implement, claim 1 *Held* invalid. *Killefer Mfg. Co.* v. *Dinuba Associates*, 67 F.(2d) 362.

(C. C. A. N. Y.) Buono patent, No. 1,706,392, for method of treating furs and machine therefor, claims 1, 2, 3, 4, and 5 *Held* invalid. *Id.*

(D. C. N. J.) Schletter patent, No. 1,713,628, for attachment for flat-knitting machines, claims 1, 3, 14, and 15 *Held* valid and infringed. *Textile Mach. Works* v. *Hofmann*, 4 F. Supp. 837.

(D. C. Del.) Golber patent, No. 1,774,367, for calculating machine, claims 123, 130, 164–169, and 172 *Held* not infringed. *Complete Calculator Co.* v. *Monroe Calculating Mach. Co.*, 4 F. Supp. 842.

(D. C. N. Y.) Farrand patent, No. 1,799,644, for means for controlling resilient rules, claim 21 *Held* valid and infringed. *Hiram A. Farrand, Inc.*, v. *McCrory Stores Corporation*, 4 F. Supp. 829.

(D. C. N. Y.) Farrand patent, No. 1,799,094, for means for controlling resilient rules, claims 1 and 2 *Held* valid and infringed. *Id.*

(D. C. N. Y.) Farrand patent, No. 1,828,401, for resilient rule, claims 10–20, inclusive, *Held* valid and infringed. *Id.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,796,764, M. W. Perry, Edge gluing machine, decided November 29, 1933, claims 1, 3, 5, 6, and 7.

Pat. 1,801,015, T. F. Luffman, Soffit clip, decided November 29, 1933, claims 1, 2, 3, and 4.

Pat. 1,856,982, F. R. West, Method and apparatus for cooling drinking water, decided October 31, 1933, claims 5 and 6.

Pat. 1,859,620, Joseph Dyer, Process of making printing surfaces, decided December 21, 1933, claims 1, 2, 3, 4, 5, and 6.

Condition of Applications Under Examination at Close of Business December 29, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 42,242; Trade-Mark Division, 977. Oldest new case, August 16, 1933; oldest amended, August 16, 1933.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Sept. 8	Sept. 9	464
6708	2. HERRMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Sept. 5	Sept. 5	738
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Oct. 2	Oct. 2	612
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Sept. 15	Sept. 21	388
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Oct. 2	Oct. 2	471
4898C	6. LEWERS, A. M., Carbon Chemistry	Sept. 1	Sept. 12	973
5725	7. JARBOE, C. G., Optics; Photography	Sept. 14	Sept. 13	859
3687	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov. 1	Nov. 10	258
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 23	Oct. 23	453
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Sept. 13	Sept. 26	495
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 2	Sept. 5	571
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms.	Sept. 20	Sept. 20	512
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Oct. 16	Oct. 16	512
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Oct. 27	Oct. 31	338
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 17	Sept. 17	1,101
3612	16. SPENCER, C. J., Telegraphy; Telephony	Oct. 20	Oct. 20	390
5701	17. ARMSTRONG H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 2	Sept. 2	842
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Nov. 1	Nov. 2	298
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Aug. 18	Aug. 23	1,063
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Nov. 6	Nov. 3	188
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Sept. 1	Sept. 1	839
5724	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Sept. 1	Sept. 1	861
7802	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Sept. 8	Sept. 1	508
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 3	Oct. 5	507
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 2	Sept. 1	922
5803	26. ADAMS, W. M., Electricity, Generation; Motive Power	Nov. 1	Nov. 2	293
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Oct. 2	Oct. 2	457
4628	28. BENSON, A. R., Internal-Combustion Engines	Sept. 2	Sept. 2	821
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Oct. 20	Oct. 20	261
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Sept. 28	Sept. 19	586
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Aug. 30	Aug. 30	1,081
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 13	Oct. 18	393
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Sept. 8	Sept. 6	815
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid-Pressure Brakes.	Aug. 22	Aug. 23	980
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Sept. 11	Sept. 8	719
7624	36. McFAYDEN, A. D., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Aug. 16	Aug. 16	1,213
5686B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 3	Oct. 2	407
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Sept. 2	Sept. 2	639
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 19	Sept. 19	687
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Sept. 18	Sept. 20	991
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Sept. 11	Sept. 14	433
5882	42. CUTTING, H. O., Electric Signaling	Sept. 1	Sept. 1	860
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Aug. 28	Aug. 28	1,017
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Sept. 2	Sept. 1	738
7007	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Nov. 10	Nov. 18	241
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Oct. 7	Oct. 7	380
7900	47. BARKER, H., Clutches; Brakes; Motors	Sept. 6	Sept. 2	958
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Sept. 6	Sept. 9	612
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Sept. 1	Sept. 1	699
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Sept. 7	Sept. 8	969
5628	51. BACKUS, C. D., Radiant Energy	Oct. 4	Oct. 4	723
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Oct. 9	Oct. 12	470
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Oct. 12	Oct. 12	384
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Sept. 7	Sept. 12	735
6987	55. BOWEN, S. T.—(Bread, Pastry, and Confection Making; Cutlery	Oct. 4	Oct. 4	293
	(Designs	Dec. 3	Dec. 8	341
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Sept. 11	Sept. 6	749
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 2	Oct. 5	297
5605	58. DOWELL, E. F., Abrading	Oct. 27	Nov. 1	224
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Sept. 14	Sept. 14	599
5896	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 5	Sept. 5	844
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus	Sept. 12	Sept. 6	445
3876	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Sept. 5	Sept. 5	1,194
4886	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Sept. 12	Sept. 12	807
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Oct. 2	Oct. 2	855
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Sept. 1	Sept. 1	869
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND—(Trade-Marks	Dec. 1	Dec. 16	887
	(Labels and Prints	Dec. 6	Dec. 21	90

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

STEINREICH *v.* THE COCA COLA COMPANY

No. 3,182. Decided December 4, 1933

1. TRADE-MARKS—GOODS OF THE SAME DESCRIPTIVE PROPERTIES — NONALCOHOLIC BEVERAGES AND SYRUP.

A nonalcoholic maltless beverage *Held* goods of the same descriptive properties as a nonalcoholic beverage and syrup used for making same.

2. SAME—SIMILARITY—"VERA-COCA" AND "COCA-COLA."

"Vera-Coca" *Held* confusingly similar to "Coca-Cola" when used upon goods of the same descriptive properties

APPEAL from the Patent Office. Affirmed.

GARRETT, *J.*, specially concurs.

Messrs. Herbert J. Jacobi and *William J. Jacobi* for Steinreich.

Messrs. Harold Hirsch, Marion Smith, Frank Troutman, and *Thomas L. Mead, jr.*, for The Coca-Cola Company.

LENROOT, *J.*:

This is an appeal from a decision of the Commissioner of Patents, affirming a decision of the Examiner of Interferences, sustaining a notice of opposition of appellee and holding that appellant, whose application was filed on July 15, 1929, was not entitled to the registration of the mark "Vera-Coca" for use upon a noncereal, nonalcoholic, maltless beverage, sold as a soft drink.

In its notice of opposition appellee alleged prior adoption and use, through its predecessor, continuously since about 1886, of the mark "Coca-Cola" upon a nonalcoholic beverage and syrup for making it, and claimed ownership of said mark and registration of the same in the United States Patent Office. It further alleged that the mark of appellant was applied to goods of the same descriptive properties as the mark of appellee, that the marks are confusingly similar, and that the registration of appellant's mark would be injurious to appellee.

The answer of appellant to said notice of opposition denied that there was confusing similarity in the marks of the parties.

Both parties took testimony. Both tribunals of the Patent Office found that the marks involved were confusingly similar, and sustained the opposition of appellee.

The Commissioner of Patents held that the goods to which the respective marks are applied are substantially identical in class and descriptive properties, and that appellee had used its mark for 40 years before appellant entered the field, had expended large sums in advertising its goods under its mark, and had sold such goods in very great quantities throughout the United States. In view of these facts, which are undisputed in the record, the Commissioner further held that the question to be determined was confined to a comparison of the marks. Upon this question the Commissioner said:

> Both marks include the word "Coca"; the applicant places the notation "Vera" before the word and the opposer places the word "Cola" after the common word, and both parties separate their words by a hyphen. It is at least reasonable to suppose that customers in ordering goods of this kind might abbreviate the entire name or notation and if this were done the goods of the opposer and those of the applicant might well be called for by the word "Coca". At any rate the goods are of the character to be ordered carelessly without much thought or consideration and it is deemed at least probable there would be some confusion of goods as well as of origin. Those familiar with the opposer's trade-mark and goods might be led to think, even if the difference in the trade-marks were noted, that the applicant's goods had their origin with the opposer; and that the latter was putting out a new kind of beverage. It is considered the applicant has approached too nearly opposer's trade-mark and should have, from the practically unlimited field before him, selected a mark as to which there could be no question of confusion.
>
> The decision of the Examiner of Trade-Mark Interferences sustaining the opposition and adjudging the applicant not entitled to the registration for which he has applied is affirmed.

We are in entire agreement with the foregoing conclusion of the Commissioner. Appellant challenges the statement of the Commissioner that the goods upon which the marks are applied are of the character to be ordered carelessly, without much thought or consideration.

The goods to which the marks of both parties are applied include syrups which are sold to proprietors of soda fountains and like dispensaries, and the drink of which such syrup is an ingredient is sold to the public. While it is no doubt true that dealers would not carelessly order the goods, the purchaser of such drinks at the soda fountain would not be apt to exercise care and precision in giving his order. As was said by the Circuit Court of Appeals, Sixth Circuit, in the case of *Federal Trade Commission* v. *Good-Grape Co.*, 45 F.(2d) 70, with respect to a soft drink of a different character:

> * * * The average purchaser makes for himself only a casual if any examination of the real character of this 5-cent drink. * * *

We are also in agreement with the Commissioner that customers, in ordering goods of the kind here involved, might abbreviate the entire name or notation, and that if this were done the goods of appellant and appellee might well be called for by the word "Coca." Testimony introduced by appellant is to the effect that customers at soda fountains often order appellee's product "Coca-Cola" by ordering a "small coke" or a "large coke."

The testimony with respect to the adoption of the mark "Vera-Coca" by appellant supports our conclusion that the Commissioner committed no error in sustaining the opposition of appellee.

According to the testimony of appellant, he did not originate the name "Vera-Coca", but commenced to use it through one Harry J. Tober. His testimony upon this point is as follows:

> Q. Mr. Steinreich, did you originate the name Vera-Cocoa? A. Not me.
>
> Q. Who did? A. I don't know.
>
> Q. How did you happen to commence the use of the name? A. Through this fellow Tober.
>
> Q. Would you mind explaining how that came about? A. To be in a position where you want to tell something that is worth while he just came into my office and used the telephone, and a little bottle dropped out of a package. I said: "What have you got there?" "I've got something that's worth while". Then he told me what it was. He showed me a little book with the name Vera-Coca, and thinking it might be worth while I says: "O. K., it's a go with me." Now, here's where the trouble started He told me the name Vera-Coca was registered in Washington and I found out differently.

Appellant now claims that in April, 1929, after the visit of the said Tober, he, appellant, appropriated the mark "Vera-Coca" with the consent of said Tober, and thereupon, under the name of the Vera-Coca Company, proceeded to sell goods of the kind here involved, applying thereto the mark "Vera-Coca."

The booklet to which appellant apparently referred in his testimony above quoted was offered in evidence, and it appears in the record. The first page following the title page contains the following:

THE HISTORY OF VERA-COCA AND COCA-COLA
By the woman who first owned Coca-Cola
MRS. DIVA BROWN
Proprietor of the Vera-Coca Co., 314 East Bay Street, Savannah, Ga.

The Price of a Name

The purpose of this book is to convince you that Coca-Cola and Vera-Coca are made from one and the same formula.

With the sworn testimony of Judge John S. Candler—printed on the next page—it cannot fail in its purpose.

In these pages you will learn that truth is stronger than fiction.

Get these facts: Judge Candler, attorney for the Coca-Cola Company, and a former Associate Justice of the Supreme Court of Georgia on his oath in the United States Court at Chattanooga—declares that there is no change today from Dr. Pemberton's original formula in making Coca-Cola. And Mrs. Diva Brown offers incontrovertible evidence of the possession of Dr. Pemberton's original Coca-Cola formula from which she today manufactures Vera-Coca.

The difference in the price you pay for Coca-Cola and the price you pay for Vera-Coca is the Price of a Name.

As hereinbefore stated, appellant claims now that he appropriated the mark "Vera-Coca" in April, 1929. He lays no claim to deriving title to the mark through Tober or through the author of the booklet above referred to.

Assuming, without deciding, that any prior use of the mark "Vera-Coca" had been abandoned, and that appellant independently appropriated the same in April, 1929, it is too clear for argument that he did so in the hope and expectation that he would profit by the similarity of the marks "Vera-Coca" and "Coca-Cola", for he was aware of the extent to which the original users of the mark "Vera-Coca" had associated the marks "Vera-Coca" and "Coca-Cola" and the products to which they were applied, in offering their product to the public.

In the case of *Coca-Cola Co.* v. *Old Dominion Beverage Corporation*, 271 Fed. 600, before the Circuit Court of Appeals, Fourth Circuit, there was involved, among other things, the question of the confusing similarity between the trade-mark "Coca-Cola" and the mark "Taka-Kola", both marks being applied to beverages. The court in its opinion said:

By using the words "Taka-Kola", and by imitating the ornamentation of the crowns of plaintiff's bottles, defendant has unfairly competed and is still doing so; but has it not also infringed upon plaintiff's exclusive right to the use of its federally registered trade-mark? A trade-mark is property of a limited and qualified kind, it is true. It cannot exist apart from the business with which it is connected, nor in jurisdictions into which that business has not gone, leaving on one side the possible effect of State or Federal registration. But it is property still within the somewhat restricted limits thus imposed upon its owner's rights. It would seem to follow, as we think it does, that it is entitled to protection against the attempt of a competitor to use it to push his wares to the possible and probable damage of the owner. Plaintiff's rights are limited at the most to two words. All the rest of infinity is open to defendant. It will be safe if it puts behind it the temptation to use in any fashion that which belongs to the plaintiff. It has not done so voluntarily, and compulsion must be applied.

We think that the mark "Vera-Coca" is equally susceptible of the observations above quoted with respect to the mark "Taka-Kola."

Had appellant wished clearly to indicate the origin of his goods there were many thousands of words which he might have selected as a trade-mark for his product, or he could have coined a word or words, none of which could be open to the claim of similarity to appellee's mark. He did not see fit to do so, and in view of the facts above recited, the conclusion is irresistible that he hoped and expected, by using the mark "Vera-Coca", that he would profit by the similarity of his mark to the mark "Coca-Cola."

This motive being clear from the record before us, we have little patience with any claim now made by appellant that confusion in the use of the two marks would not result. *Lever Brothers Co.* v. *Riodela Chemical Co.*, 17 C. C. P. A. (Patents) 1272, 41 F.(2d) 408, 398 O. G. 356; *The Procter & Gamble Co.* v. *J. L. Prescott Co.*, 18 C. C. P. A. (Patents) 1433, 49 F.(2d) 959, 413 O. G. 1105; *The Celotex Co.* v. *Bronston Bros. & Co. (Inc.)*, 18 C. C. P. A. (Patents) 1490, 49 F.(2d) 1048, 413 O. G. 280.

Appellant relies largely upon the case of *Coca-Cola Co.* v. *Carlisle Bottling Works*, 43 F.(2d) 101, decided by the District Court for the Eastern District of Kentucky, affirmed by the Circuit Court of Appeals, Sixth Circuit, 43 F.(2d) 119, wherein it was held that the mark "Roxa-Kola" did not infringe upon appellee's mark "Coca-Cola."

We have examined the opinions in that case and do not find it necessary to express either approval or disapproval of the conclusion there reached. It is sufficient to say that under the facts in the case at bar, which differ in material respects from the facts in the case last cited, we are satisfied that there was no error in sustaining the opposition of appellee and denying appellant's application for registration.

Appellee contends that, even though it should be held that the marks of the respective parties are not confusingly similar, the record shows that at the time appellant applied for registration he was not the owner of the mark "Vera-Coca." We find it unnecessary to consider this question in view of the conclusion we have reached as to the similarity of the marks of the parties.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

GARRETT, *J.* (specially concurring):

I am in agreement with the majority holding that registration of appellant's mark must be denied because of the near resemblance of the marks. When applied to identical goods, or goods of the same descriptive properties, I think undoubtedly appellant's mark would "be likely to cause confusion or mistake in the mind of the public or to deceive purchasers", and so, I regard it as falling within the inhibition proclaimed in section 5 of the act commonly referred to as the Trade-Mark Registration Act of February 20, 1905. It is not, in my opinion, necessary to consider the inferred motive of appellant-applicant in deciding the case, and for the reasons stated in my specially concurring opinion in the case of *Lever Brothers Co.* v. *Riodela Chemical Co.*, 17 C. C. P. A. (Patents) 1272, 41 F.(2d) 408, 398 O. G. 356, I am unwilling so to do in the instant case. That matter was not considered by the tribunals of the Patent Office and hence is not referred to in appellant's reasons for appeal.

U. S. Court of Customs and Patent Appeals

MARSHALL AND LEVANDOSKY *v.* LEDWINKA

No. 3,186. Decided December 4, 1933

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIM.

Record reviewed and *Held* that the senior party, L. has a right to make the claim in issue and priority was properly awarded to him, since his application was filed prior to any date of invention alleged by the junior parties.

APPEAL from the Patent Office. Affirmed.

Messrs. Milans & Milans, Mr. Calvin T. Milans, and *Mr. William H. Gross* for Marshall and Levandosky.

Mr. John P. Tarbox, Mr. J. Calvin Bright, and *Mr. J. Hanson Boyden* for Ledwinka.

LENROOT, *J.*:

This is an appeal in an interference proceeding wherein the Board of Appeals of the United States Patent Office affirmed a decision of the Examiner of Interferences, awarding priority of invention to appellee upon a count which reads as follows:

In combination, an automobile door comprising an extensible portion substantially of the full width of the body of the door, a latch operating mechanism on opposite sides of the path of movement of said extensible portion, one of which connects with the other through an oscillating member journalled exteriorly of the jamb face of the door rail.

Appellee contends, and appellants do not deny, that grammatically, the phrase "a latch operating mechanism" should be in the plural and should be considered as reading "latch operating mechanisms."

The general character of the alleged invention in issue is sufficiently stated in the count.

Appellants' application, No. 6,425, was filed February 2, 1925; appellee's application, No. 683,144, was filed December 28, 1923.

It appears from the record that appellee's application and the application of one Tarbox are owned by a common assignee; that the count here in issue was first claimed in the Tarbox application, No. 50,170, filed August 14, 1925, and was later copied by appellee in an amendment of his application. Said claim was suggested to appellants for purposes of interference, and the claim was added to their application by proper amendment. This interference was thereafter declared.

No testimony was taken by either party, the award of priority being predicated on a record judgment by reason of the failure of appellants to overcome in their preliminary statement the filing date of appellee's application.

After the preliminary statement of appellants was opened, they moved to dissolve the interference upon the following grounds:

First. That the interference be dissolved, on the ground of non-patentability of the count constituting the single issue of the interference, when said count is construed of sufficient breadth to be readable on the disclosure of the Ledwinka application;

Second. That the interference be dissolved, on the ground that the party Ledwinka has no right to make the claim, in view of an absence of disclosure in the Ledwinka application of the subject-matter of the count constituting the single issue of the interference;

Third. That the interference be dissolved, on the ground that the party Ledwinka is estopped from contesting the subject-matter of the interference;

Only the second of these grounds is urged here. While there is included in the reasons of appeal a statement that the Board of Appeals erred in not holding that appellee is barred by estoppel from an award of priority herein, this reason of appeal was not urged or argued before us. In their brief appellants state:

The sole question for determination on appeal is whether or not the disclosure in the Ledwinka application is sufficient to form a basis for the single interference count when the latter is properly construed in the light of the disclosure of the party (not Ledwinka) who first made the claim corresponding to the count.

It is therefore not necessary for us to discuss the question of estoppel at length. We think it proper to observe that we find nothing in the record upon which such claim of estoppel could properly be based.

With respect to the right of appellee to make the claim corresponding to the count in issue, it is contended by appellants that the count should be construed in the light of the disclosure of the Tarbox application, from which the claim corresponding to the count was copied, and that only by such construction can the count be held to be patentable in view of the prior art, as shown by patents in the record; that when so construed the count does not read upon appellee's disclosure, and hence he cannot make the claim.

The Board of Appeals held that the count is fairly readable upon appellee's disclosure. In making this finding the board said:

Considering the Ledwinka disclosure, obviously an automobile door comprising an extensible portion substantially the full width of the body of the door is illustrated in this disclosure. The party Ledwinka also discloses a handle on the outside and inside of the door to operate a latch on the door and such handles are certainly latch operating mechanism on opposite sides of the path of movement of the extensible portion. These handle members are interconnected through the operating member 14 arranged exteriorly of the jamb face of the door rail. It is true that this member 14 acts as a latch, but it also extends across the jamb face of the door so that the handles and cooperating members on either side of the door can operate the same and forms a connection between said oppositely arranged operating members. This member 14 pivots about a pin 13 and can therefore be said in a very broad sense to be journalled thereon, considering the word "journalled" to imply a bearing for the oscillating member. We consider that the claim is fairly readable on the Ledwinka construction.

We are in full accord with the foregoing views of the Board of Appeals. Only by reading into the count limitations not therein expressed or implied can it be found that it does not read upon appellee's disclosure.

That in an interference proceeding the counts must be given the broadest interpretation which they will reasonably support is so well established that citations of authority are unnecessary.

While appellants, of course, recognize this rule, they contend that there is another rule which must also be considered, viz, that the count should not be so interpreted as to render it unpatentable if a narrower construction may properly be given it that will avoid anticipation by prior art patents.

It is apparent, however, that the Board of Appeals in the case at bar did give the count here involved

a broad interpretation, and we are not at liberty in this proceeding to inquire whether such broad interpretation renders the count unpatentable. *McCabe* v. *Cramblet*, 20 C. C. P. A. (Patents) 1220, 65 F.(2d) 459, 437 O. G. 576; *Deibel* v. *Heise & Schumacher*, 18 C. C. P. A. (Patents) 907, 46 F.(2d) 570, 405 O. G. 845; *Brogden* v. *Slater*, 17 C. C. P. A. (Patents) 1240, 40 F.(2d) 988, 399 O. G. 630.

We said in the case last cited that, had the Board of Appeals narrowly construed the claims and held that if broadly construed they would not be patentable, a different question would be presented. A like observation is applicable here. So far as this case is concerned, the count as construed by the board must be regarded as patentable, and therefore there is no occasion here for the application of the rule contended for by appellants, that the count must be given a narrower construction than that given it by the board to avoid anticipation by the prior art.

Whether the count, as construed by the board, is in fact patentable is a matter for ex parte consideration by the Patent Office tribunals, and cannot be inquired into upon this appeal. *Gowen* v. *Hendry et al.*, 17 C. C. P. A. (Patents) 789, 37 F.(2d) 426, 393 O. G. 1024; *Brogden* v. *Slater*, *supra*.

There is included in the record the Tarbox application from which the count here in issue was copied. Said application contains 12 claims, the count here involved being identical with claim 9. An examination of said claims reveals the fact that the limitations which appellants now seek to read into the count in issue were included in certain claims of Tarbox, but not in claim 9. This leads us to the conclusion that Tarbox deliberately framed claim 9, corresponding to the count here in issue, in order to secure a broader protection than would be afforded him in the claims containing said limitations. This fact supports our conclusion that the Board of Appeals did not err in refusing to construe the count as contended for by appellants.

That it is proper, in construing a claim of an application, to consider other claims in the application, is well established. *Oldroyd* v. *Morgan*, 19 C. C. P. A. (Patents) 1111, 57 F.(2d) 358, 421 O. G. 858; *Andrews* v. *Nilson*, 27 App. D. C. 451, 123 O. G. 1667; *Ryder* v. *Schlichter*, 126 Fed. 487.

Appellants contend that the decision of the Board of Appeals in the case at bar is contrary to its decisions in companion interferences denying appellee's right to make claims similar to the count here involved. Said claims alleged to be similar to the count here in issue are contained in the record. While not necessary to our decision herein, we would observe that in each of the said claims the latch is recited as a positive element, but is not so recited in the count before us. This clearly distinguishes said claims from the count here involved. In its decision in the case at bar the Board of Appeals said:

> Appellants have maintained that the latch should be inferentially included into the count and therefore the oscillating member and the latch being the same member would be included twice in the claim. The latch is not included as a positive element in the claim and therefore the question of whether the latch and operating member are the same member, does not arise as to this claim.

We are in accord with the foregoing statement of the board, and we find no conflict in its decisions as claimed by appellants.

We find no error in the decision of the Board of Appeals, and it is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

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1,181,370, A. C. Brown, Adjustable faucet attachment, D. C., N. D. Ohio, E. Div., Doc. E 1697, *A. C. Brown* v. *The Empire Brass Co.* Dismissed Oct. 6, 1933.

1,200,121, 1,255,614, E. J. Knapp, Sanctuary lamp, C. C. A., 2d Cir., Doc. 12915. *Muench-Kreuzer Candle Co., Inc.*, v. *Mack, Miller Candle Co.* Decree affirmed (notice Nov. 3, 1933).

1,206,044, D. G. Smart, Rope clamp, appeal filed Nov. 1, 1933, C. C. A., 2d Cir., Doc. 13040, *J. R. Kearney Corp.* v. *Burndy Engineering Co., Inc.*

1,223,165, W. D. Hamerstadt, Paper pulley, D. C., E. D. Ill. (East St. Louis), Doc. E 4563, *The Rockwood Mfg. Co.* v. *Atlas Leather Co.* Dismissed without prejudice May 1, 1933.

1,223,659, W. S. Barnickel, Treatment of crude oil; 1,467,831, same, Process for treating petroleum; 1,596,589, M. DeGroote, Process for treating petroleum emulsions, filed Nov. 2, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E 104–J, *The Tretolite Co. et al.* v. *R. Bromberg et al.*

1,255,614. (See 1,200,121.)

1,317,431, L. P. Clutter, Ditching or excavating machine; 1,476,121, G. E. Wagner, Excavating scoop, filed Nov. 3, 1933, D. C., N. D. Ohio, W. Div., Doc. E 1380, *Keystone Driller Co.* v. *The Ohio Power Shovel Co.*

1,321,150, H. C. Root, Controlling valve for vacuum operated power means, C. C. A., 2d Cir., Doc. 12,889, *Bragg-Kliesrath Corp.* v. *W. S. Vogel & Co.* Decree reversed (notice Nov. 6, 1933).

1,347,183, R. S. Smith, Metal wheel; 1,413,030, D Kapuczin, Wheel; Des. 88,509, C. L. Eksergian, Artillery wheel; Des. 88,510, Eksergian & Davenport, same; Des. 85,511; same. Torpedo disc wheel, filed Oct. 17, 1933, D. C. Del., Doc. E 1041, *Budd Wheel Co.* v. *General Motors Corp. et al.*

1,376,390, A. J. Michelin, Demountable wheel, filed Oct. 21, 1933, D. C. Del., Doc. E 1042, *Michelin & Cie et al.* v. *General Motors Corp. et al.*

1,392,437. (See Re. 15,813.) 1,401,376. (See 1,550,396.)

1,402,589, H. A. Farrand, Rule; 1,799,044, 1,799,094, same, Means for controlling resilient rules; 1,828,401, same, Resilient rule, D. C., E. D. N. Y., Doc. E 6602, *H. A. Ferrand, Inc.*, v. *McCrory Stores Corp. et al.* Decree for plaintiff Nov. 6, 1933.

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1,550,396, R. B. Smith, Method of oiling cotton raw stock; 1,401,376, A. W. Thompson, Fibre conditioning process and apparatus, C. C. A., 4th Cir., Doc. 3512, *The Texas Co. et al.* v. *Borne Scrymser Co.* Decree affirmed Oct. 3, 1933.

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1,690,723, M. S. Frankle, Deflector for motor vehicle hot air heaters; 1,830,090, H. J. Cocks, Automobile heater, D. D., S. D. Iowa (Des Moines), Doc. E 4467, *N. C. Barnes et al.* v. *Iowa Auto Market.* Dismissed Oct. 27, 1933.

1,706,392, Buono & Buono, Method of treating furs and machine therefor, C. C. A., 2d Cir., Doc. 12681, *U. S. Blind Stitch Machine Corp.* v. *Reliable Machine Works, Inc.* Decree affirmed (notice Nov. 6, 1933).

1,706,471, Woodman & Smith, Removable head for metal containers, D. C., N. D. Ohio, E. Div., Doc. 4703, *W. S. Woodman et al.* v. *The National Steel Barrel Co.* Dismissed without prejudice Nov. 6, 1933.

1,710,073, 1,714,191, S. Ruben, Electrical condenser; 1,891,207, same, Electrolytic condenser, filed Nov. 6, 1933, D. C., S. D. N. Y., Doc. E 76/381, *Ruben Condenser Co. et al.* v. *R. H. Macy & Co., Inc.*

1,714,191. (See 1,710,073.)

1,718,025, R. Bishinger, Hair curling appliance, D. C., N. D. Ohio, E. Div., Doc. E 4302, *R. Bishinger et al.* v. *E. Baum et al.* Dismissed Oct. 6, 1933.

1,761,735, T. J. McCormick, Tire cover; 1,865,031, Des. 87,671, McCormick & Linn, same, 1,889,773, C. P. Chamberlain, Method of making annular objects; 1,889,774, same, Construction of annular objects, such as tire covers, filed Nov. 3, 1933, D. C., S. D. N. Y., Doc. E 76/377, *T. J. McCormick* v. *Cluff Cover Co.*

1,774,367, H. Golber, Calculating machine, D. C. Del. Doc. E 874, *Complete Calculator Co.* v. *Monroe Calculating Machine Co.* Dismissed for want of equity Oct. 27, 1933.

1,792,422, Des. 81,976, J. Granat, Wedding ring; Des. 80,787, same, Ring, D. C., N. D. Calif. (San Francisco), Doc. E 2814–K, *Granat Bros.* v. *Baker & Co., Inc.* Dismissed with prejudice Oct. 27, 1933.

1,799,044. (See 1,402,589.) 1,799,094. (See 1,402,589.)

1,819,660, A. A. Stone, Broiling device, D. C., N. D. Ohio, E. Div., Doc. E 4658, *McFriedman, et al.* v. *The Buckeye Aluminum Co.* Dismissed without prejudice Oct. 28, 1933.

1,823,163, J. B. Picard, Pumping jack, filed Nov. 1, 1933, D. C., N. D. Tex. (Ft. Worth), Doc. E 783, *The National Supply Co.* v. *American Mfg. Co. of Texas.*

1,828,401. (See 1,402,589.) 1,830,090. (See 1,690,723.)

1,830,768, I. M. Rod, Art of making garments, D. C., S. D. N. Y., Doc. E 76/340, *Rokap Corp.* v. *Royaltex Clothes, Inc.* Consent decree for plaintiff Nov. 3, 1933.

1,865,031. (See 1,761,735.) 1,889,773. (See 1,761,735.)

1,889,774. (See 1,761,735.) 1,891,207. (See 1,710,073.)

1,900,629, R. P. Wuerfel, Radio circuit, filed Oct. 12, 1933, D. C. Del., Doc. E 1040, *International Research Corp.* v. *U. S. Radio & Television Corp.*

1,911,099, White & Ruttiman, Tank and liquid level indicator therefor; Des. 88,497, Berry & White, Combined liquid fuel reservoir and bowl; Des. 88,594, F. E. White et al., Combination liquid fuel reservoir bowl and support therefor, filed Nov. 7, 1933, D. C. Conn. (New Haven), Doc. E 2319, *Florence Stove Co.* v. *The Ameroil Burner Mfg. Corp.*

1,919,018, L. Goebbel, Ornamented lining fabric, filed Nov. 6, 1933, D. C., S. D. N. Y., Doc. E 76/382, *L. Goebbel* v. *Art Silk Corp.*

Re. 15,313 (of 1,392,437), H. D. Morton, Arc welding system; 1,648,560, same, Electric arc welding; 1,648,563, same, Electric arc welding apparatus, D. C., N. D. Ohio, E. Div., Doc. E 3552, *Automatic Arc Welding Co.* v. *The Lincoln Electric Co.* Dismissed Oct. 23, 1933.

Re. 17,395, J. Mayer, Automatic train control, D. C., N. D. Ohio, E. Div., Doc. 3728, *The Philad Co.* v. *A. L. Greenfield et al.* (Dealers Supply Co.). Dismissed without prejudice Nov. 8, 1933.

Re. 17,800, J. G. Gross, Bevel-cut patch for tubes and other rubber goods, filed Nov. 1, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E 103–J, *Patco, Inc.*, v. *Featherstone's, Inc., et al.*

Des. 77,477, A. C. Elishewitz, Imitation straw braid fabric for hats; Des. 77,478, same, Braid, C. C. A., 2d Cir., Doc. 12764, *J. Elishewitz & Sons Co., Inc.*, v. *Bronston Bros. & Co., Inc.* Decree affirmed (notice Nov. 6, 1933).

Des. 77,478. (See Des. 77,477.)

Des. 80,787. (See 1,792,422.)

Des. 81,976. (See 1,792,422.)

Des. 84,811, R. De Boer, Combination ash receiver and electric lighter, C. C. A., 6th Cir., Doc. 6275, *Applied Arts Corp.* v. *Grand Rapids Metalcraft Corp.* Patent held not infringed Nov. 7, 1933.

Des. 87,671. (See 1,761,735.)

Des. 88,497. (See 1,911,099.)

Des. 88,509. (See 1,347,183.)

Des. 88,510. (See 1,347,183.)

Des. 88,511. (See 1,347,183.)

Des. 88,594. (See 1,911,099.)

Disclaimers

Re. 16,825.—*Mary Hallock Greenewalt*, Philadelphia, Pa. METHOD OF AND MEANS FOR ASSOCIATING LIGHT AND MUSIC. Patent dated December 20, 1927. Disclaimer filed December 23, 1933, by the patentee.

Hereby enters the following disclaimer, the aforesaid claims numbers 1 to 4 inclusive, and 7 to 17 inclusive, as follows:

I disclaim the use of stereoptically focussed images such as are known as painted pictures and the like, projected between lenses as distinguished from the use of substantially shapeless flood of light.

1,390,349.—*James H. Emery*, New York, N. Y. ARTIFICIAL GRAPE AND METHOD OF PRODUCING SAME. Patent dated September 13, 1921. Disclaimer filed December 23, 1933, by the patentee.

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 6, 7, 12 and 13 of said Letters Patent, which are in the following words, to wit:

"1. An artificial grape comprising a core of thermoplastic material and a coating of colored material covering said core.

"2. An artificial grape comprising a core of translucent thermoplastic material and a colored translucent coating covering said core.

"3. An artificial grape comprising a core of colorless translucent wax and a coating of colored translucent wax covering said core.

"4. An artificial grape comprising a core of colorless translucent wax, a coating of colored translucent wax covering said core and a light colored powder adhering to the surface of said coating.

"5. An artificial grape comprising a core of colorless translucent wax, a coating of colored translucent wax covering said core and an oxid of zinc powder adhering to said coating.

"6. An artificial grape comprising a core of thermoplastic material, a stem projecting from said core, and a colored coating covering said core.

"7. An artificial grape comprising a core of thermoplastic material and a stem projecting from the core, said stem having a bent portion embedded within said core."

"12. An artificial grape comprising a core of thermoplastic material and a coating covering said core.

"13. An artificial grape comprising a core of thermoplastic material and a stem projecting from the core, said stem having a portion embedded within said core."

1,642,826.—*Joseph S. Reynolds*, Long Beach, Calif. ROTARY SCRAPER WITH AUTOMATIC ELEVATING CONTROL. Patent dated September 20, 1927. Disclaimer filed December 26, 1933, by *Olive M. Reynolds*, trustee of the Estate of Joseph S. Reynolds, deceased.

Hereby enters this disclaimer to that part of the claims in said specification which is in the following words, to wit:

"1. In a rotary scraper, the combination of: a draft frame; a scoop supporting one end of said draft frame to which said scoop pivotally attaches; a control mechanism

for retaining said scoop in digging position; and an intermediate member pivotally secured to said draft frame whereby said scraper is pulled, said intermediate member being associated with said control mechanism so as to operate said mechanism and remove said scoop from digging into carrying position when said scoop is loaded."

"8. In a rotary scraper the combination of: a scoop having digging and carrying positions; a draft frame supported at one end by said scoop through which said scoop may be pulled by a tractor, said frame being extensible by the tractive pull of said tractor when said pull reaches a certain value, the front end of said frame being raised by said extension thereof; means for fixing said value; and means operated by the extension of said frame to move said scoop from digging to carrying position."

"9. In an automatic scraper control, the combination of: a frame; a scoop pivotally supporting one end of said frame; and a draft connection pivotally secured to the said frame and adapted to operate at a predetermined load within the scraper to rotate the said scraper to a non-scraping position."

"11. In an automatic scraper control, the combination of: a frame; a scraper pivotally mounted within the frame and supporting one end thereof; means for connecting the said frame with a draft implement and operable at a predetermined load for rotating the said scraper in the said frame; and means for adjusting the said draft connecting means so as to regulate the load at which the said scraper is rotated."

"12. In an automatic scraper control, the combination of: a frame; a scraper pivotally mounted in the frame and supporting one end thereof; latch means secured to the frame and adapted to be engaged with the said scraper for latching the said scraper in the scraping position; means pivotally connecting the said frame with a draft implement; means pivotally connecting the said last named means with the said latch means and operable at a predetermined load for rotating the said scraper to a non-scraping position; and means associated with the said latch means for releasing the same to permit the scraper to rotate in the frame to dump the load."

"13. In a scraper of the character described, the combination of: a draft device; a scoop pivotally supporting one end of said draft device and adapted to be drawn thereby; a stop supporting member secured to said scoop substantially midway between the ends thereof; a stop secured to said member; means mounted on said draft device for holding or releasing said stop so as to permit the scoop to be held in scraping position, or released to dumping position as may be desired; and means pivotally secured to the draft device and adapted to operate at a predetermined load within the scoop to rotate the said scoop to a non-scraping position."

"14. In an automatic scraper control, the combination of: a frame; a scraper pivotally mounted within the frame; latch means secured to the frame and adapted to engage the said scraper to hold the same in the scraping position; draft means secured to the said frame; means connecting the draft means with the said latch means so as to automatically actuate the said latch means at a predetermined load in the said scraper to rotate the said scraper to a non-scraping position; and means secured to the said latch means, and manually operable before the said scraper has picked up the predetermined load for rotating the said scraper to the non-scraping position."

"17. In a rotary scraper the combination of: a scoop having digging and carrying positions; a draft frame through which said scoop may be pulled by a tractor, said frame being extensible by the tractive pull of said tractor when said pull reaches a certain value; means for fixing said value; and means operated by the extension of said frame to move said scoop from digging to carrying position."

"20. In a rotary scraper the combination of: a scoop having digging and carrying positions; a draft frame through which said scoop may be pulled by a tractor, said frame being extensible by the tractive pull of said tractor when said pull reaches a certain value; means for fixing said value; means operated by the extension of said frame to move said scoop from digging to carrying position; and means permitting said scoop to be moved manually from digging position to carrying position."

"21. In a rotary scraper the combination of: a scoop having digging, carrying and dumping positions; a draft frame through which said scoop may be pulled by a tractor, said frame being extensible by the tractive pull of said tractor when said pull reaches a certain value; means for fixing said value; means operated by the extension of said frame to move said scoop from digging to carrying position; and means for manually disengaging said scoop from digging or carrying positions, and freeing said scoop for movement to dumping position."

"24. In a rotary scraper the combination of: a scoop having digging, carrying and dumping positions; a draft frame through which said scoop may be pulled by a tractor, said frame being extensible by the tractive pull of said tractor when said pull reaches a certain value; means for fixing said value; means operated by the extension of said frame to move said scoop from digging to carrying position; means permitting said scoop to be moved manually from digging position to carrying position; and means for manually disengaging said scoop from digging or carrying positions, and freeing said scoop for movement to dumping position."

"25. In a rotary scraper the combination of: a scoop having digging and carrying positions; a draft frame through which said scoop may be pulled by a tractor, said frame being extensible by the tractive pull of said tractor when said pull reaches a certain value, the front end of said frame being raised by said extension thereof; means for fixing said value; and means operated by the extension of said frame to move said scoop from digging to carrying position."

"26. In an automatic scraper control, the combination of: a frame; a scraper pivotally mounted in the frame; and a draft connection pivotally secured to the said frame and adapted to automatically operate at a predetermined load within the scraper to rotate the said scraper to a non-scraping position."

"28. In a rotary scraper, the combination of: a scoop; a draft frame to which said scoop is pivotally attached; a control mechanism for retaining said scoop in digging position; means secured to said draft frame whereby said scraper is pulled, said means being associated with said control mechanism so as to automatically operate said mechanism and remove said scoop from digging into carrying position when said scoop is loaded.

"29. In a rotary scraper the combination of: a scoop having digging and carrying positions; a draft frame through which said scoop may be pulled by a tractor; a link in said draft frame through which link tractive pull from said tractor is transmitted to said scoop, said link being misaligned an adjustable degree with the direction of said tractive pull so that a tendency is set up proportional to said tractive pull to align said link with the direction of said pull; and means, operated by said tendency of said link, to move said scoop from digging position to carrying position when said tractive pull reaches a certain value.

"30. In a rotary scraper the combination of: a scoop having digging and carrying positions; a draft frame through which said scoop may be pulled by a tractor; a mechanism for moving said scoop from digging position to carrying position; and a lever receiving tractive pull from said tractor, transmitting tractive pull to said frame, and operating the aforesaid mechanism when the tractive pull received thereby reaches a given value."

1,801,234.—*Karl M. Hamilton*, Chicago, Ill. RAILWAY-CAR TRUCK. Patent dated April 14, 1931. Disclaimer filed December 27, 1933, by the assignee, *The Bettendorf Company*.

Hereby enters this disclaimer to that part of claim 4 in the following words:

"Said plank having adjacent each end thereof, portions wider than the balance of the spring plank" except where the portions wider than the balance of the spring plank are disposed inwardly from the ends of the spring plank and the ends of the spring plank are narrower than said wider portions.

1,815,524.—*John D. Pedersen*, Jackson, Wyo. REVERSIBLE CLIP FOR AMMUNITION. Patent dated July 21, 1931. Disclaimer filed December 20, 1933, by the patentee.

Hereby enters this disclaimer to claim 4 in said specification which is in the following words, to wit:

"4. An ammunition clip for holding a double row stack of cartridges in staggered relation and adapted to be inserted therewith into the receiver of a gun, said clip comprising a back plate and two forwardly extending spring pressed side walls for embracing said ammunition stack with a compressing action, said side walls having inturned portions at their upper and lower ends, each side wall having formed therein adjacent its junction with the back plate an inwardly projecting rib for engaging in front of the cartridge extracting rims and also an outwardly projecting rib for engaging behind a shoulder in said receiver so as to position said clip within the receiver."

1,821,366.—*Edward Timbs*, Los Angeles, Calif. ROTARY MACHINE FOR WELL DRILLING. Patent dated September 1, 1931. Disclaimer filed December 22, 1933, by the assignee, *The National Supply Company of Delaware*.

Hereby enters this disclaimer to that part of the claims in said specification which is in the following words, to wit:

"5. In a rotary machine, the combination of a base, a table rotatably supported by the base, the base having a circumferentially extending flange, a hold-down bracket in the form of a ring mounted on and secured to the flange, the rotary table having gear teeth formed on its under side under the hold down ring, the hold-down ring having an annular flange which extends into a circumferential recess formed in the rotary table above the gear teeth in position to engage the bottom surface of the recess in the table."

TRADE-MARKS

OFFICIAL GAZETTE, JANUARY 16, 1934

[VOL. 438. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

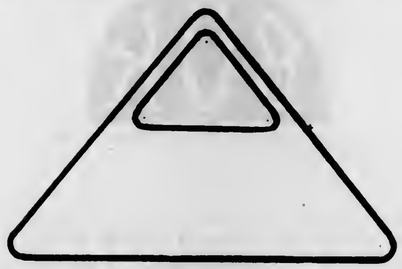
Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 2

Receptacles

Ser. No. 332,718. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed Dec. 3, 1932.



For Pails Made of Base Metal, Particularly Those Made of Nickel or Alloys of Nickel and/or Copper.

Claims use since Apr. 29, 1919.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 336,058. BARNES-NOBLE COMPANY, INC., Minneapolis, Minn. Filed Mar. 25, 1933.

BRITE-IZE

For Cleanser and Scouring Compound for Woodwork, Painted and Enameled Surfaces, Metals, Porcelain, Marble, Linoleum, and the Like.

Claims use since Mar. 17, 1933.

Ser. No. 337,058. WORLD SPECIALTIES, Portland, Maine. Filed Apr. 21, 1933.

KLEAN-POL

No claim is made to the word "Klean" apart from the mark as shown on the drawing.

For Chemically Impregnated Polishing Cloths or Pads, and a Powdered Compound for Cleaning and Polishing Glass, Metal, Porcelain, and Enameled Surfaces.

Claims use since Jan. 16, 1933.

Ser. No. 341,943. DREXELL PRODUCTS CORP., Brooklyn, N. Y. Filed Sept. 28, 1933.

DREXELL

For Window Cleaner Compound, Wall Cleaner Compound, Pumice Soap, Shaving Cream, and Scouring Powder.

Claims use since Aug. 16, 1933.

Ser. No. 342,585. G. A. HOSMER COMPANY, Buffalo, N. Y. Filed Oct. 17, 1933.

DOUBLE POWER BELT GRIP



The drawing is lined for red. No claim is made for the words "Belt Grip" apart from the mark as shown.

For Grip Dressing for Leather, Cotton, Canvas, Rubber, and Other Belts, and for Rope and Cable Drives.

Claims use since Oct. 5, 1927.

Ser. No. 342,988. MICHAEL L. UZIT, doing business as Uzit Clay Products Co., Chicago, Ill. Filed Oct. 27, 1933.

UZIT

For Polishes for Metals, Washing Compounds, Paint Cleaning Compounds for Painted Surfaces, Valve Grinding Compounds, Stain Removers in the Nature of Dry Cleaning Preparations, Road Tar Removing Compounds, Window Washing Compounds, Calcimine Washing Compounds, and Cleaning Compounds for Removing Spots and Stains.

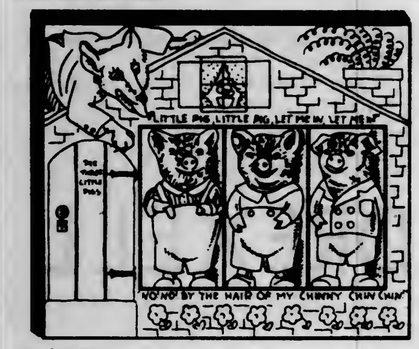
Claims use since June 1, 1903.

Ser. No. 344,009. WILLIAM L. SCHULTZ, New York, N. Y. Filed Nov. 22, 1933.

Three Little Pigs

For Soaps.
Claims use since Nov. 10, 1933.

Ser. No. 344,010. WILLIAM L. SCHULTZ, New York, N. Y. Filed Nov. 22, 1933.



For Soaps.
Claims use since Nov. 10, 1933.

Ser. No. 344,198. LOS ANGELES SOAP COMPANY, Los Angeles, Calif. Filed Nov. 27, 1933.

OUR
LEADER

For Laundry Soap.
Claims use since 1903.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 330,728. OBREN C. RICHARDS, doing business as Propho-San Laboratories, Portland, Oreg. Filed Sept. 26, 1932.

Propho-San

For Nonpoisonous, Soothing, and Prophylactic Jel y for Feminine Hygiene.
Claims use since Sept. 10, 1931.

Ser. No. 332,081. REEFER'S NO-MOTH, INC., New York, N. Y. Filed Nov. 11, 1932.

INJECT-O

For Preparation for the Destroying of Moth Larvæ and Eggs.
Claims use since Apr. 4, 1930.

Ser. No. 334,675. ETHICAL LABORATORIES, Brooklyn, N. Y. Filed Feb. 6, 1933.

HEXAL-PHOSPHATE

The word "Phosphate" is disclaimed apart from the mark as shown.
For Genito-Urinary Antiseptics.
Claims use since January, 1925.

Ser. No. 337,380. BAKER & COMPANY, INC., Newark, N. J. Filed May 2, 1933.

ORALBRITE

For Electrodepositing Solution for Dentures.
Claims use since Jan. 24, 1933.

Ser. No. 337,780. ERNESTO V. GALIARDO, doing business as B-OK Co., New York, N. Y. Filed May 13, 1933.



For Preparation for the Treatment of Indigestion.
Claims use since 1928.

Ser. No. 338,303. AIR ICE RESEARCH & DEVELOPMENT CORP., Los Angeles, Calif. Filed May 29, 1933.



For Gasifiable Refrigerants in Solid Form.
Claims use since Apr. 26, 1933.

Ser. No. 338,357. THE BUROMIN COMPANY, Pittsburgh, Pa. Filed May 31, 1933.

NOCA
WATER SOFTENER

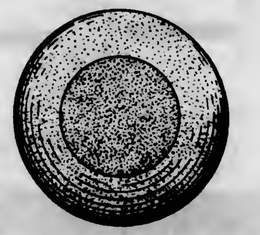
The words "Water Softener" are disclaimed apart from the mark as shown.
For Water Softening and Water Conditioning Chemical for Industrial, Laundry, and Semi-Industrial Use.
Claims use since May 9, 1933.

Ser. No. 338,890. SCHWARTZ MERCHANDISE CORPORATION, New York, N. Y. Filed June 15, 1933.

HY-TECH

For Dental Powder.
Claims use since June 15, 1933.

Ser. No. 338,934. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed June 17, 1933.



No claim is made to the representation of the tablet appearing in the drawing, for the trade-mark does not consist in any representation of the tablet but in the flat circular disk applied to the tablet itself as above stated.
For Hypnotic Medicinal Tablets.
Claims use since June 14, 1933.

Ser. No. 340,502. DAVID WRÓBLEWSKI, doing business as D. Wróblewski, Brooklyn, N. Y. Filed Aug. 8, 1933.

MARVO-LEK

The word "Lek" is disclaimed apart from the mark as shown.
For a Tonic for Building Up the System, Enriching the Blood, Increasing the Appetite and Aiding Digestion.
Claims use since June 1, 1914.

Ser. No. 341,187. NANCY A. MORGAN, MARGARET MORGAN and AGNES MORGAN, doing business as Morgan & Morgan, Munhall, Pa. Filed Aug. 30, 1933.



The words "Green Salve" appearing in the drawing are disclaimed apart from the mark as shown. The drawing is lined for green.
For Pharmaceutical Preparations Consisting of a Healing Salve for Human Application.
Claims use since June 20, 1933.

Ser. No. 341,293. KABUSHIKI-KAISHA TAKEDA CHOBEI SHOTEN, Osaka, Japan. Filed Sept. 2, 1933.

RODEALIN
ロデアリン

The Japanese characters are the phonetic equivalent of the coined word "Rodealin" and have no other significance.
For Diuretics and Heart Tonic.
Claims use since December, 1926.

Ser. No. 341,665. PINAUD, INCORPORATED, New York, N. Y. Filed Sept. 18, 1933.



No claim is made to the words, "Trade Mark, A Delightful Hair Lotion Suppling Freshening Protects From or Corrects Dryness, Paris—New York, Printed in France", apart from the mark shown. The label is red. The border is black. The words are white except for the facsimile signature, and the words "Trade Mark, Printed in France" which are black. The representation of a basket with flowers, is black and white.
For Liquid for Use on the Hair.
Claims use since Sept. 6, 1933.

Ser. No. 341,942. DREXELL PRODUCTS CORP., Brooklyn, N. Y. Filed Sept. 28, 1933.

DREXELL

For Foot Comforter Cream.
Claims use since Aug. 16, 1933.

Ser. No. 341,977. MAGIC-LAX CORP., Newark, N. J. Filed Sept. 28, 1933.



The drawing is lined for green, red, and gold.
For Chocolate Laxatives.
Claims use since Mar. 15, 1933.

Ser. No. 342,124. FRANK G. BOYER, Kansas City, Mo. Filed Oct. 4, 1933.



No claim is made to the representation of the label appearing in the drawing.
For Tooth Powder.
Claims use since September, 1932.

Ser. No. 342,433. ESTHER F. GOODSON, doing business as Kent Hygienic Laboratory, Grand Rapids, Mich. Filed Oct. 13, 1933.



No claim is made to the words "Hygienic", "Antiseptic", "Protective", or the phrase "Commended for Feminine Hygiene" other than their use in connection with "Gyno-San".
For Antiseptic Jelly Used in Feminine Hygiene.
Claims use since Sept. 15, 1932.

Ser. No. 342,540. WU KONG LABORATORIES, INC., Detroit, Mich. Filed Oct. 16, 1933.



For Medicinal Compounds Used as a Blood Builder, General Tonic, and Kidney Medicine.
Claims use since Sept. 14, 1933.

Ser. No. 342,644. THE CHATTANOOGA MEDICINE COMPANY, Chattanooga, Tenn. Filed Oct. 19, 1933.



The words "Syrup of" are disclaimed apart from the mark as shown. The portrait on the drawing is that of A. Q. Simmons, deceased.
For Liver Cathartic and Laxative Medicine.
Claims use since Sept. 8, 1931.

Ser. No. 342,728. ALBERT J. BOLLAND, Garrett, Ind. Filed Oct. 21, 1933.



The signature is a facsimile of applicant's signature. The representation of a man is fanciful. The words "Penetrating Liniment", are disclaimed apart from the mark shown on the drawing.
For Liniment for External Purposes Recommended for the Alleviation of Pain Due to Neuritis, Neuralgia, Traumatic Arthritis, Rheumatism, Lumbago, and Muscular Disorders.
Claims use since Oct. 20, 1933.

Ser. No. 342,802. FRANK D. GATES, doing business as Rockwell Laboratories, Kansas City, Mo. Filed Oct. 23, 1933.



The group of words appearing in the drawing is a facsimile signature of applicant's predecessor in business.
For Insecticides.
Claims use since November, 1923.

Ser. No. 342,809. CAROLINE E. LONG, Dayton, Ohio. Filed Oct. 23, 1933.



The silhouette is that of the applicant. Disclaimer is made of all wording on the mark excepting the word "Carolyn's."
For Hand Lotion.
Claims use since Sept. 1, 1932.

Ser. No. 342,869. THE ASSOCIATED PERFUMERS INCORPORATED, West Haven, Conn. Filed Oct. 25, 1933.

LA CASTELLO

For Cold Cream, Vanishing Cream, Face Cream, Massage Cream, Bleaching Cream and/or Lotions, Massage Cream for the Removal of Wrinkles, Chemical Fluids for the Dissolving and Removing of Nail Polish and Cuticles, Hand and Face Lotions, Deodorants, Depilatories, Face Powder, Toilet Water, Perfumes, Antiseptic Solutions, Camphor Ice, Lip and Face Rouge, Eyebrow Pencil.
Claims use since April, 1926.

Ser. No. 342,927. SALIVER, INC., Seattle, Wash. Filed Oct. 25, 1933.

Saliver

For Medicinal Oil to Be Used in Vitamine Therapy Alone or in Combination with Other Oils, if Necessary to Balance the Vitamine.
Claims use since June 12, 1933.

Ser. No. 342,965. THE CROOKES LABORATORIES, INCORPORATED, New York, N. Y. Filed Oct. 27, 1933.

HALIMALT

For Medicinal Preparation for Use as a Source of Additional Vitamins A, B, C, and D and Comprising Halibut-Liver Oil, Barley Malt, and Orange Juice.
Claims use since Oct. 18, 1933.

Ser. No. 343,192. STEIN, HALL & COMPANY, INC., New York, N. Y. Filed Nov. 2, 1933.

ELASTINE

C

For Artificial Silk Sizing.
Claims use since Aug. 28, 1933.

Ser. No. 343,238. HILDA GOULDON, New York, N. Y. Filed Nov. 3, 1933.

hilda rejane

For Face Powder, Hair Tonic, Skin Tonic, Rouge, Lip Stick, Nail Cream Polish, Face Creams, Cleansing Creams, Nail Whiting, Nail Polish, Cuticle Remover.
Claims use since Sept. 1, 1931.

Ser. No. 343,401. LEONARD E. GRIFFITH, doing business as Griffith Drug Company, Townsend, Mont. Filed Nov. 8, 1933.

RU-AID TABLETS

The word "Tablets" is disclaimed apart from the other features of the mark shown.
For Medicinal Preparation Generally in Tablet Form Recommended for the Treatment of Neuralgia, Rheumatism, Arthritis, and Ailments of this General Nature.
Claims use since May 1, 1933.

Ser. No. 343,518. NYANZA COLOR & CHEMICAL CO., New York, N. Y. Filed Nov. 10, 1933.

HUMIDOGENE

For Compound Used as a Moisture-Producing Agent in the Treatment of Textile Fabrics.
Claims use since January, 1933.

Ser. No. 343,604. RUFUS F. GARDNER, Rocky Mount, Va. Filed Nov. 13, 1933.



The signature on the drawing is a facsimile of the signature of the applicant. The representation of a girl's head is fanciful.
For Hair Preparation for Restoring Grey Hair to its Natural Color.
Claims use since July 25, 1933.

Ser. No. 343,628. MARTIN C. SCHWAB, Chicago, Ill. Filed Nov. 13, 1933.



BEAUTYGLO

The words "Hair Beauty Depends Upon Hair Health" are disclaimed apart from the mark as shown.
For Shampoo.
Claims use since Nov. 2, 1933.

Ser. No. 343,685. HOPE, INC., New York, N. Y. Filed Nov. 15, 1933.

HOPE

For Laxatives and Denture Suction Powders.
Claims use since 1910.

Ser. No. 343,789. WM. P. POTTHRESS & CO., INC., Richmond, Va. Filed Nov. 17, 1933.



For Analgesic and Antipyretic Preparation for the Relief and Alleviation of Pain and Fever.
Claims use since August, 1933.

Ser. No. 343,791. WM. P. POTTHRESS & CO., INC., Richmond, Va. Filed Nov. 17, 1933.



For Preparation for the Treatment of Nervous and Undernourishment Disorders.
Claims use since June 30, 1931.

Ser. No. 343,801. STALLERI COMPANY, Philadelphia, Pa. Filed Nov. 17, 1933.

STALLERI

For Vaginal Antiseptic Jelly, Vaginal Antiseptic Powder, Vaginal Antiseptic Suppositories, Preparation for Relief of Neuralgia, Headaches, and Menstrual Pains, and Preparation for Use as an Ovarian Tonic or as an Emenagogue.
Claims use since August, 1929.

Ser. No. 343,829. LEONARD JAMES COMPANY, San Saba, Tex. Filed Nov. 18, 1933.

Bracine

For Antiseptic Liniment and Veterinary Liniment Preparation.
Claims use since May, 1933.

Ser. No. 343,830. D. H. LE BLANC, Long Lake, N. Y. Filed Nov. 18, 1933.



For Preparation for the Treatment of the Hair and Scalp.
Claims use since Nov. 1, 1933.

Ser. No. 343,837. PHARMEDIC CORPORATION, New York, N. Y. Filed Nov. 18, 1933.

METHATROPIN

For Medicinal Preparation for Use in the Treatment of Headache, Neuralgia, Colds, and Muscular Aches and Pains.
Claims use since Nov. 1, 1933.

Ser. No. 343,849. E. BILHUBER, INC., Jersey City, N. J. Filed Nov. 20, 1933.

KLIMAKTON

For Medicinal Preparation for the Treatment of Disturbances of Menstruation and Disorders of the Menopause.
Claims use since June, 1926.

Ser. No. 343,874. PLOUGH, INC., Memphis, Tenn. Filed Nov. 20, 1933.

KING TUT

For Medicinal Preparation—Namely, Liquid Latex Prophylactic.
Claims use since Sept. 6, 1933.

Ser. No. 343,875. PLOUGH, INC., Memphis, Tenn. Filed Nov. 20, 1933.

Rough Rider

For Medicinal Preparation—Namely, Liquid Latex Prophylactic.
Claims use since Sept. 13, 1933.

Ser. No. 343,905. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio. Filed Nov. 21, 1933.

OZONITE

For Liquid Chemical Composition for the Protection of Rubber Insulation Against Corona Cutting.
Claims use since June 13, 1933.

Ser. No. 344,067. SPOONER, INC., New York, N. Y. Filed Nov. 23, 1933.



For Rouge, Talcum, Body Powder, Perfume, Toilet Water, Florida Water, Tooth Paste, Bay Rum, Bath Salts, Lemon Cream, Vanishing Cream, Massage Cream, Nail Polish, Shampoo, Hair Tonic, Sachet, Vegetal, Face Powder, Face Creams, Face Lotions, Astringent, Skin Tonic, Cold Cream, Lip Sticks, Honey and Almond Cream, Brilliantine, Hair Pomade, Smelling Salts, After-Shaving Lotions, Astringent Cream, Eye Shadow, Mascara, and Lip Rouge.
Claims use since March, 1931.

Ser. No. 344,088. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Nov. 24, 1933.

COTONEROL

For Dyestuffs.
Claims use since January, 1930.

Ser. No. 344,154. JOSEPH INGRAOS, doing business as Sphinx Laboratory, New Orleans, La. Filed Nov. 25, 1933.

SPHINX



For Preparation for the Treatment of Hay Fever.
Claims use since July 1, 1933.

Ser. No. 344,221. J. A. CASE, INC., Denver, Colo. Filed Nov. 28, 1933.

J. A. Case

The mark is a facsimile of the signature of the president of the corporation.
For Soluble Tooth Powder.
Claims use since Nov. 1, 1933.

CLASS 11

Inks and Inking Materials

Ser. No. 343,375. A. B. DICK COMPANY, Chicago, Ill. Filed Nov. 6, 1933.

Edison-Dick

For Duplicating Machine Ink.
Claims use since September, 1921.

CLASS 12

Construction Materials

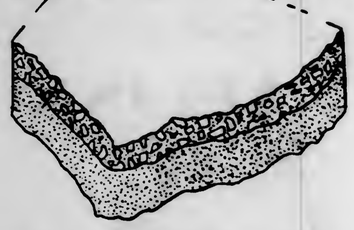
Ser. No. 340,862. THE BARRETT COMPANY, New York, N. Y. Filed Aug. 21, 1933.

FLEXIGUM

For Roof Coating Comprising Bitumen and Fibrous Material and Roofing Cement.
Claims use since May 26, 1933, and since Oct. 10, 1930, respectively.

Ser. No. 343,264. VEN-ITE COMPANY, INCORPORATED, Philadelphia, Pa. Filed Nov. 4, 1933.

VEN-ITE



For Plastic Material for Forming Cement Floors.
Claims use since May 15, 1933.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 342,390. GENERAL ALLOYS COMPANY, Boston, Mass. Filed Oct. 12, 1933.

ETERNEL

For Metal Pipe Fittings, Flush Valves, Gate Valves, Globe Valves, Plug Cocks, Valve Parts.
Claims use since Mar. 5, 1932.

Ser. No. 343,302. JAY F. PITTS, Chicago, Ill. Filed Nov. 6, 1933.

Jay F. Pitts M.D. D.D.S.
DANDY DUO-PAX
TRADE MARK
CHICAGO ILLINOIS.

No claim is made to the letters M. D., D. D. S.; and the words "Trade Mark, Chicago, Illinois" are disclaimed apart from the mark as shown. The signature is that of the applicant.
For Broilers, Gridirons, Griddles, Pots, and Pans.
Claims use since November, 1932.

CLASS 15

Oils and Greases

Ser. No. 338,550. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed June 5, 1933.

Luxora

For Candles.
Claims use since Mar. 1, 1933.

Ser. No. 338,551. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed June 5, 1933.

STARLITE

For Candles.
Claims use since Mar. 1, 1933.

Ser. No. 340,166. JOHNSON & MORRIS, Richmond, Va. Filed July 27, 1933.

MOD-RN PENN

Applicant disclaims the words "Mod-rn Penn" apart from the mark as shown.
For Lubricating Oils and Greases.
Claims use since Nov. 10, 1932.

Ser. No. 343,386. COAST 2 COAST OIL COMPANY, Cleveland, Ohio. Filed Nov. 13, 1933.

VINDEX

For Lubricating Oils and Greases.
Claims use since Sept. 1,1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 337,247. CARBIDE AND CARBON CHEMICALS CORPORATION, New York, N. Y. Filed Apr. 28, 1933.

VINYLOID

For Ready-Mixed Paints, Paint Enamels, Varnishes and Lacquers, and Synthetic Resins in Solid, Liquid, or Paste Form for Use in the Coating Compositions Named.
Claims use since Apr. 20, 1933.

Ser. No. 343,834. GEORGE L. MCCONNELL, Berkeley, Calif. Filed Nov. 18, 1933.

NOGRO

For Ready-Mixed Paints.
Claims use since November, 1931.

Ser. No. 343,881. REGENT PAINT & VARNISH CORP., Jersey City, N. J. Filed Nov. 20, 1933.

REGENT A·C·M·

For Ready-Mixed Paint, Paint Enamel, and Varnish.
Claims use since Oct. 19, 1933.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 340,663. WELSH-HARTMAN COMPANY, St. Louis, Mo. Filed Aug. 12, 1933.

HEALTH-VICTORIA

Applicant disclaims the word "Health" apart from the mark as shown.
For Baby Carriages, Strollers, and Gocarts.
Claims use since July 10, 1933.

Ser. No. 344,525. CURTISS AEROCAR COMPANY, INC., Coral Gables, Fla. Filed Dec. 6, 1933.

CURTISS AEROCAR

For Trailers, Both Passenger-Carrying and Commercial.
Claims use since Nov. 15, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 340,301. THE ART METAL COMPANY, Cleveland, Ohio. Filed Aug. 2, 1933.

MURALIER

For Electric Table Lamps, Electric Floor Lamps, and Electric Ceiling Lamps.
Claims use since November, 1932.

Ser. No. 343,449. GILBERT & BARKER MANUFACTURING COMPANY, West Springfield, Mass. Filed Nov. 9, 1933.

Gilbarco

For Electric Motors, Thermostatically Controlled Electrical Switches, Transformers, Radio Filters and Condensers, Electrodes, Cables, Wires, and Binding Posts. All for Use with Oil-Burning Equipment.
Claims use since Oct. 20, 1933.

Ser. No. 344,003. PERRINE QUALITY PRODUCTS CORPORATION, Waltham, Mass. Filed Nov. 22, 1933.

POLAR BEAR

For Storage Batteries and Their Parts—Namely, Battery Cases, Battery Containers, Plates, Plate Filling, Separators, Hangers, Terminal Posts, Bushings and Nuts, Connecter Links and Straps, Battery Tops, Filling Collars and Caps, Battery Handles, Battery Carriers, Battery Sealer, Battery Clips and Connectors and Associated Battery Parts Except Electrolyte.
Claims use since June 1, 1931.

Ser. No. 344,034. ALLIED BATTERY CORPORATION, Dayton, Ohio. Filed Nov. 23, 1933.

Allied
BATTERY CORPORATION
COAST TO COAST

For Storage Batteries.
Claims use since November, 1932.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 335,858. CELIA CRAIG, doing business as Craig Craft, Evanston, Ill. Filed Mar. 20, 1933.

CRAIG CROSS WORDS

No claim is made to the words "Cross Words" apart from the mark shown in the drawing.
For Cross-Word Puzzle Game Played with Cards, Pieces, and Definitions.
Claims use since Mar. 7, 1933.

Ser. No. 341,623. STORRS M. BISHOP, Schenectady, N. Y. Filed Sept. 16, 1933.

PLAYED ON THE STONES
MANKALI
An Ancient Game
BEFORE HEROD'S COURT

No claim is made by the applicant to the words "Played on the Stones", "Mankali", and "Game."
For Game to be Played by Two People on a Special Board Containing Two Rows of Depressions Among Which Counters are Moved in Accordance with Fixed Rules Until One Player is in Possession of All the Counters.
Claims use since Sept. 13, 1933.

Ser. No. 344,430. ANNA ROOSEVELT DALL, New York, N. Y. Filed Dec. 4, 1933.

Scamper

For Dolls, Toy Figures, and the Like.
Claims use since Nov. 17, 1933.

Ser. No. 344,437. JOHN F. MEYER, doing business as Exhibit Supply Company, Chicago, Ill. Filed Dec. 4, 1933.

"Go-Getter"

For Coin-Controlled Amusement Apparatus.
Claims use since Nov. 1, 1933.

Ser. No. 344,455. ALBERT STITH MOORMAN, West Englewood, N. J. Filed Dec. 5, 1933.

BERT'S BAG-A-BALL GOLF

No claim is made to the word "Golf" apart from the mark shown on the drawing.
For Pin Board Games.
Claims use since Jan. 9, 1933.

Ser. No. 344,726. JOHN F. MEYER, doing business as Exhibit Supply Company, Chicago, Ill. Filed Dec. 9, 1933.

$weet $ally

For Coin-Controlled Amusement Apparatus.
Claims use since Nov. 3, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 339,702. BENDIX STROMBERG CARBURETOR COMPANY, South Bend, Ind. Filed July 13, 1933.

BENDIX-STROMBERG

For Carburetors.
Claims use since Mar. 5, 1931.

Ser. No. 340,937. YORK RAZOR BLADE COMPANY, INC., Passaic, N. J. Filed Aug. 22, 1933.

York

The lining used in the drawing indicates the colors blue and orange. Applicant disclaims the word "York".
For Razor Blades.
Claims use since Apr. 1, 1933.

Ser. No. 343,653. HEPWORTH & GRANDAGE LIMITED, Bradford, England. Filed Nov. 14, 1933.

HEPOLITE

For Pistons and Valves for Internal-Combustion Engines.
Claims use since Apr. 16, 1924.

CLASS 24

Laundry Appliances and Machines

Ser. No. 344,796. NATIONAL WASHBOARD COMPANY, Chicago, Ill. Filed Dec. 11, 1933.

NO. 152

No claim is made to the word "No".
For Ironing Tables.
Claims use since Oct. 31, 1933.

Ser. No. 344,797. NATIONAL WASHBOARD COMPANY, Chicago, Ill. Filed Dec. 11, 1933.

LEADER

For Ironing Tables.
Claims use since Oct. 31, 1933.

Ser. No. 344,798. NATIONAL WASHBOARD COMPANY, Chicago, Ill. Filed Dec. 11, 1933.

NO. 134

No claim is made to the word "No".
For Ironing Tables.
Claims use since Oct. 31, 1933.

CLASS 25

Locks and Safes

Ser. No. 341,181. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed Aug. 30, 1933.

STANFORD

For Automobile Door Lock and Latch Handles.
Claims use since Jan. 1, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 342,420. GEOPHYSICAL SERVICE INC., Dallas, Tex. Filed Oct. 12, 1933.

GSI

For Oscillographs, Seismometers, Galvanometers.
Claims use since Aug. 15, 1933.

Ser. No. 343,641. COLUMBIA PROTEKTOSITE CO., INC., Carlstadt, N. J. Filed Nov. 14, 1933.

Cerulite

Trade-mark consists in part of the word "Cerulite".
For Goggles and Goggle Lenses.
Claims use since July 25, 1933.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 334,265. NEO BRUSH HOLDER CORPORATION, Spokane, Wash. Filed Jan. 23, 1933.



No claim is made to the representation of the brush which appears on the drawing.

For Floor Brooms, Floor Brushes, Dusters, and Brush Handle Holders.

Claims use since Jan. 6, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 343,285. JABURG BROTHERS, INC., New York, N. Y. Filed Nov. 6, 1933.

JAY BEE

For Tables, Stands, Chairs, Stools for Other Than Household and/or Office Uses; Racks and Counters Made of Wood and/or Metal; Display Cases; Window Display Fixtures, That is, Display Stands, Display Cabinets and Cases, and Display Clothing Racks and Stands.

Claims use since April, 1915.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 343,039. LOUIS D. HOULIS, doing business as Cincinnati Oven Company, Batavia, Ohio. Filed Oct. 30, 1933.

THE
MASTER
OVEN

No claim is made to the words "The" and "Oven."

For Baking Ovens Heated by Gas, Oil, Charcoal, Coal, or Steam.

Claims use since Mar. 1, 1928.

Ser. No. 344,096. JAYNELL MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 24, 1933.

mechanical
MATCH

For Pyrophoric Lighters.

Claims use since Oct. 1, 1933.

Ser. No. 344,339. MAJESTIC NEW YORK, INCORPORATED, New York, N. Y. Filed Dec. 1, 1933.

Mayfair

For Gas Stoves, Gas Ranges, and Gas Ovens.

Claims use since Nov. 16, 1933.

Ser. No. 344,348. NATIONAL ENAMELING AND STAMPING COMPANY, Milwaukee, Wis. Filed Dec. 1, 1933.

NESCO IMPERIAL

For Woven Wicks.

Claims use since Nov. 1, 1933.

Ser. No. 344,367. THERMADJUST CORPORATION, Newark, N. J. Filed Dec. 1, 1933.

THERMADJUST

For Unit Apparatus for Conditioning Air.

Claims use since Nov. 6, 1933.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 341,298. NATIONAL TIRE STORES, INC., Denver, Colo. Filed Sept. 2, 1933.

National

For Tires Made of Cotton Cords, Rubber Cotton Cords and Rubber with Reenforced Steel Bead; Rubber Inner Tubes, Automobile Fan and Generator Belts, Transmission Belting of All Types; Tire Patches Made of Rubber, Cotton Cords, Rubberized Fabric, Valve Bases Made of Rubber, Rubberized Cotton Fabric, Rubber Tube Patches; Hose of All Types Made of Rubber, Cotton, Cord, and Rubber, and Rubberized Cotton Fabric, and Rubber; Tire Flaps Made of Rubber, Rubberized Cotton Fabric, and Rubberized Cotton Cord.

Claims use since November, 1926.

CLASS 36

Musical Instruments and Supplies

Ser. No. 330,003. THE WOODWIND COMPANY, New York, N. Y. Filed Aug. 30, 1932.

CROWN

For Clarinets, Saxophones, Clarinet Mouthpieces, Saxophone Mouthpieces, Clarinet Reeds, Saxophone Reeds, Clarinet Accessories and Saxophone Accessories—i. e., Ligatures and Caps Therefor.

Claims use since Aug. 12, 1932.

Ser. No. 341,593. STANDARD MUSICAL STRING & MFG. CORP., New Brunswick, N. J. Filed Sept. 14, 1933.

TRUESOLO

For Strings Used or Intended for Use in Musical Stringed Instruments—to wit, Violins, Violoncellos, Violas, Double-Bass Violins, Mandolins, Mandolas, Mandocellos, Guitars, Contra-Bass Guitars, Pianos, Banjos, Zithers, Guitar-Mandolins, Banjo-Mandolins, Tenor Banjos, Tenor Guitars, and Bandurias.

Claims use since Nov. 15, 1905.

CLASS 37

Paper and Stationery

Ser. No. 343,679. HILL-INDEPENDENT MFG. CO., Philadelphia, Pa. Filed Nov. 15, 1933.

CROWN

For Hand Stamps.

Claims use since Jan. 2, 1899.

Ser. No. 343,680. HILL-INDEPENDENT MFG. CO., Philadelphia, Pa. Filed Nov. 15, 1933.

JEWEL

For Hand Stamps.

Claims use since May 1, 1899.

Ser. No. 343,682. HILL-INDEPENDENT MFG. CO., Philadelphia, Pa. Filed Nov. 15, 1933

PIONEER

For Hand Stamps.

Claims use since Aug. 1, 1907.

Ser. No. 343,683. HILL-INDEPENDENT MFG. CO., Philadelphia, Pa. Filed Nov. 15, 1933.

★STAR★

For Hand Stamps.

Claims use since Sept. 1, 1907.

CLASS 38

Prints and Publications

Ser. No. 341,817. TECK PUBLICATIONS, INC., New York, N. Y. Filed Sept. 22, 1933.

RADIO
NEWS
and
SHORT-WAVE

For Periodicals Issued Monthly.

Claims use since Sept. 11, 1933.

Ser. No. 342,373. DAVID ZIMMERMAN, Brooklyn, N. Y. Filed Oct. 11, 1933.

AUNT TILLIE SAYS

For Title of a Monthly Column Appearing in a Periodical.

Claims use since Apr. 1, 1933.

Ser. No. 343,927. THE MODERN MILLER, Chicago, Ill. Filed Nov. 21, 1933.

Modern Miller

For Weekly Publication.

Claims use since 1883.

CLASS 39

Clothing

Ser. No. 342,684. ABRAHAM & STRAUS, INC., Brooklyn, N. Y. Filed Oct. 20, 1933.



For Men's, Women's, and Children's Shoes Made of Leather, Fabric, and Combinations of Leather and Fabric.

Claims use since July 14, 1933.

Ser. No. 342,840. THE CROWN OVERALL MFG. CO., Cincinnati, Ohio. Filed Oct. 24, 1933.

THE BIG SHOT
UNION MADE
America's Biggest Overall Value
LOT SIZE

All wording with the exception of the words "The Big Shot" is disclaimed apart from the mark as shown.
For Men's and Boys' Overalls, Men's Trousers and Work Shirts.
Claims use since Feb. 20, 1933.

Ser. No. 343,171. GEORGE W. GABRIEL, New York, N. Y. Filed Nov. 2, 1933.

DEBUT-UNDIES

No claim is made for the word "Undies" apart from the mark.
For Women's Silk Underwear.
Claims use since Aug. 1, 1933.

Ser. No. 343,429. ALFREDA, INC., New York, N. Y. Filed Nov. 9, 1933.

Ere Nouvelle

Trade-mark consists of the word "Ere Nouvelle"; translated meaning "The New Era".
For Ladies' and Misses' Hats.
Claims use since Oct. 25, 1933.

Ser. No. 343,618. MANDEL & COHEN, New York, N. Y. Filed Nov. 13, 1933.

CRUCIBLE

For Hats; Shoes of Leather, Fabric, Rubber and/or Combinations Thereof; Hosiery, Coats, Suits, Pajamas, Bathing Suits, Sweaters, Bath Robes, Scarfs, Garters, Hose Supporters; Underwear of Knitted, Netted, and Textile Fabrics for Men, Women, and Children; Skirts, Blouses, Corsets, Step-Ins (Drawers), Brassières, Kimonos for Women and Children.
Claims use since July 11, 1922.

Ser. No. 343,647. THE GOTTFRIED-HUEBSCHMAN CO., Cleveland, Ohio. Filed Nov. 14, 1933.

MAREÉDRES

For Ladies' Dresses.
Claims use since Oct. 1, 1933.

Ser. No. 343,689. LEVY BROS. & ADLER ROCHESTER, INCORPORATED, Rochester, N. Y. Filed Nov. 15, 1933.



The drawing is lined for orange. No claim is made to the exclusive use of the word "Flannel" apart from the mark as shown in the drawing.
For Men's and Boys' Suits.
Claims use since Oct. 24, 1933.

Ser. No. 343,691. LEVY BROS. & ADLER ROCHESTER, INCORPORATED, Rochester, N. Y. Filed Nov. 15, 1933.



The drawing is lined for blue. No claim is made to the exclusive use of the word "Crash" apart from the mark as shown.
For Men's and Boys' Suits.
Claims use since Oct. 24, 1933.

Ser. No. 344,103. THE MANHATTAN SHIRT CO., New York, N. Y. Filed Nov. 24, 1933.

Mansco

For Knit Underwear and Cut and Sewn Underwear as Follows: Shirts, Drawers, and Union Suits; Athletic Drawers, Also Known as Running Pants or Track Pants; Sport Shirts and Negligee Shirts, Pajamas, Sweaters, Pull-Overs, Bathing Suits, Swim Suits, Surf Suits, Swim Shirts, Swim Shorts, Swim Pants, Sport Shorts, Belts for Personal Wear, and Sport Coats Worn by Males and Females.
Claims use since June 16, 1915.

Ser. No. 344,122. M. L. VICTORIUS & CO., INC., New York, N. Y. Filed Nov. 24, 1933.

Official

For Hosiery.
Claims use since Nov. 15, 1933.

Ser. No. 344,243. CHARLES N. WINSHIP, doing business as Winship, Bolt & Co., Wakefield, Mass. Filed Nov. 28, 1933.

Breechettes

For Pull-Over Garment for Protecting the Hips and Thighs, Made of Silk, Wool, Cotton or Rayon or Combinations of These Fibres, and Worn by Women and Children.
Claims use since Oct. 19, 1929.

Ser. No. 344,491. WM. FILENE'S SONS COMPANY, Boston, Mass. Filed Dec. 5, 1933.

MOOR-SCOT

For Women's, Misses', and Girls' Coats.
Claims use since Oct. 15, 1933.

Ser. No. 344,652. HICKEY-FREEMAN COMPANY, Rochester, N. Y. Filed Dec. 8, 1933.

THE GOTHAMER

For Men's Suits, Topcoats, and Overcoats.
Claims use since Aug. 22, 1933.

Ser. No. 344,813. TABIN, PICKER & Co., Chicago, Ill. Filed Dec. 11, 1933.

Glorianna

For Dresses, Frocks, and Uniforms for Nurses and Maids, Including Wash Dresses and Wash Frocks.
Claims use since Nov. 15, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 329,620. I. P. BEMBERG AKTIENGESELLSCHAFT, Wuppertal-Oberbarmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Filed Aug. 18, 1932.

Menuett

For Knitted and Netted Piece Goods Made of Artificial Fibre.
Claims use since June 26, 1929.

Ser. No. 336,844. TONIC MESH COMPANY, Bayville, N. J. Filed Apr. 15, 1933.

TONIC MESH

The drawing is lined for shading only. The word "Mesh" is disclaimed apart from the mark as shown on the drawing.
For Wash Cloths.
Claims use since Sept. 1, 1932.

Ser. No. 342,701. W. E. MCKAY & CO., INC., New York, N. Y. Filed Oct. 20, 1933.

"Lovely Lady"
Anti-Crease-Process

The expression "Anti-Crease-Process" is disclaimed apart from the mark as shown on the drawing.
For Fabrics in the Piece of Silk, Cotton, Rayon and/or Combinations of the Same.
Claims use since Mar. 30, 1933.

Ser. No. 342,916. THOMAS J. L. MCCONNELL, New York, N. Y. Filed Oct. 25, 1933.

Erin Isle

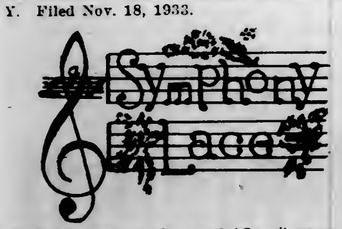
For Fabrics in the Piece, Including Silk, Cotton, Rayon, Wool, and Combinations Thereof; Toweling, Tablecloths, Napkins, Sheetings, Pillowcases, Bedspreads, Doilies, and Handkerchiefs.
Claims use since Mar. 15, 1930.

Ser. No. 343,201. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Nov. 3, 1933.

Haut de Laine

The right to the exclusive use ofthe word "Laine" is disclaimed except in association with the mark shown herein.
For Pile Fabrics.
Claims use since Oct. 28, 1933.

Ser. No. 343,833. LEON & JOSEPH SUTTON, New York, N. Y. Filed Nov. 18, 1933.



No claim is made to the word "Lace" apart from the mark as shown.

For Piece Laces.

Claims use since July 7, 1932.

Ser. No. 344,045. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Nov. 23, 1933.

BARA-CEL

For Piece Goods Made Wholly or Partially of Cellulose Derivatives.

Claims use since Nov. 21, 1933.

CLASS 43

Thread and Yarn

Ser. No. 328,157. JOS. BRANDT & CO., New York, N. Y. Filed June 21, 1932.

ROMANTIQUE

For Cellulose Filaments, Flat Straws for Sewing and Weaving Into Fabrics, and Yarns.

Claims use since Mar. 11, 1932.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 337,379. BAKER & COMPANY, INC., Newark, N. J. Filed May 2, 1933.

ORALIUM

For Dental Alloy.

Claims use since Jan. 5, 1933.

Ser. No. 342,104. BEAUTY UTILITIES, INC., Newark, N. J., and Dover, Del. Filed Oct. 3, 1933.



The drawing is lined for shading only.

For Permanent-Waving Machines, Permanent-Waving Hair Curling Machines, and Supplies Therefor—Namely, Electrolytic Curl Heating Pads, Permanent-Waving Curling Rods, Inserts for Steaming the Interior of Wound Tresses of Hair.

Claims use since Sept. 20, 1933.

Ser. No. 343,825. INTERSTATE DENTAL COMPANY, INC., New York, N. Y. Filed Nov. 18, 1933.

DENTSTONE

For Grinding or Cutting Points or Wheels or Discs Such as Are Used by Dentists.

Claims use since Sept. 28, 1933.

Ser. No. 344,342. N. V. PHILIPS' GLOEILAMPENFABRIEKEN, Eindhoven, Netherlands. Filed Dec. 1, 1933.

CENTRALIX

For Electromedical Apparatus—Namely X-Ray Tubes and Apparatus, Including Autotransformers for X-Ray Tubes, Converters for X-Ray Tubes, Viewing Lanterns for X-Ray Tubes, X-Ray Tables, Film Holders and Supports Therefor, X-Ray Stands, X-Ray Screens and Holders Therefor, Photographic Apparatus for X-Ray Films, X-Ray Filters, Rectifiers for Supplying X-Ray Tubes with Direct Current.

Claims use since Oct. 20, 1933.

Ser. No. 344,343. N. V. PHILIPS' GLOEILAMPENFABRIEKEN, Eindhoven, Netherlands. Filed Dec. 1, 1933.

DENTALIX

For Electromedical Apparatus—Namely X-Ray Tubes and Apparatus, Including Autotransformers for X-Ray Tubes, Converters for X-Ray Tubes, Viewing Lanterns for X-Ray Tubes, X-Ray Tables, Film Holders and Supports Therefor, X-Ray Stands, X-Ray Screens and Holders Therefor, Photographic Apparatus for X-Ray Films, X-Ray Filters, Rectifiers for Supplying X-Ray Tubes with Direct Current.

Claims use since May 10, 1930.

Ser. No. 344,344. N. V. PHILIPS' GLOEILAMPENFABRIEKEN, Eindhoven, Netherlands. Filed Dec. 1, 1933.

OVALIX

For Electromedical Apparatus—Namely X-Ray Tubes and Apparatus, Including Autotransformers for X-Ray Tubes, Converters for X-Ray Tubes, Viewing Lanterns for X-Ray Tubes, X-Ray Tables, Film Holders and Supports Therefor, X-Ray Stands, X-Ray Screens and Holders Therefor, Photographic Apparatus for X-Ray Films, X-Ray Filters, Rectifiers for Supplying X-Ray Tubes with Direct Current.

Claims use since June 2, 1933.

Ser. No. 344,345. N. V. PHILIPS' GLOEILAMPENFABRIEKEN, Eindhoven, Netherlands. Filed Dec. 1, 1933.

LINIX

For Electromedical Apparatus—Namely X-Ray Tubes and Apparatus, Including Autotransformers for X-Ray Tubes, Converters for X-Ray Tubes, Viewing Lanterns for X-Ray Tubes, X-Ray Tables, Film Holders and Supports Therefor, X-Ray Stands, X-Ray Screens and Holders Therefor, Photographic Apparatus for X-Ray Films, X-Ray Filters, Rectifiers for Supplying X-Ray Tubes with Direct Current.

Claims use since Aug. 5, 1933.

Ser. No. 344,346. N. V. PHILIPS' GLOEILAMPENFABRIEKEN, Eindhoven, Netherlands. Filed Dec. 1, 1933.

ROTALIX

For Electromedical Apparatus—Namely X-Ray Tubes and Apparatus, Including Autotransformers for X-Ray Tubes, Converters for X-Ray Tubes, Viewing Lanterns for X-Ray Tubes, X-Ray Tables, Film Holders and Supports Therefor, X-Ray Stands, X-Ray Screens and Holders Therefor, Photographic Apparatus for X-Ray Films, X-Ray Filters, Rectifiers for Supplying X-Ray Tubes with Direct Current.

Claims use since May 27, 1930.

Ser. No. 344,347. N. V. PHILIPS' GLOEILAMPENFABRIEKEN, Eindhoven, Netherlands. Filed Dec. 1, 1933.

TALIX

For Electromedical Apparatus—Namely, X-Ray Tubes and Apparatus, Including Auto-Transformers for X-Ray Tubes, Converters for X-Ray Tubes, Viewing Lanterns for X-Ray Tubes, X-Ray Tables, Film Holders and Supports Therefor, X-Ray Stands, X-Ray Screens and Holders Therefor, Photographic Apparatus for X-Ray Films, X-Ray Filters, Rectifiers for Supplying X-Ray Tubes with Direct Current.

Claims use since June 12, 1933.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 319,305. BERDY'S FOOD PRODUCTS CORP., New York, N. Y. Filed Sept. 23, 1931.



The words "Better Quality" are disclaimed apart from the complete trade-mark shown in the drawing.

For Gherkins, Strawberry Preserves.

Claims use since Apr. 1, 1931.

Ser. No. 319,860. B. FILIPPONE & CO., Passaic, N. J., assignor to B. Filippone & Co. Inc., Passaic, N. J., a corporation of New Jersey. Filed Oct. 8, 1931.

LA PERLA



The portrait of the boy shown is that of John Filippone, son of Bartolo Filippone, a member of applicant firm.

For Canned Tuna Fish, Canned Salmon, Canned Corn, Canned String Beans, Canned Anchovies, Cheese, Rice, Lentils, Dried Peas and Beans, Olives, Coffee, and Tomato Paste.

The trade-mark has been continuously used in its business in interstate commerce since November, 1928, for Canned Tuna Fish; since September, 1931, for Canned Salmon; since September, 1931, for Canned Corn; since August, 1931, for Canned String Beans; since June, 1928, for Canned Anchovies; since February, 1931, for Cheese; since January, 1928, for Rice; since March, 1929, for Lentils; since March, 1929, for Dried Peas and Beans; since May, 1928, for Olives; since February, 1928, for Coffee, and since December, 1927, for Tomato Paste.

Ser. No. 336,802. JULES WEBER, INC., New York, N. Y. Filed Apr. 14, 1933.

CONNOISSEUR

For Coffees, Teas, Capers, Canned Vegetables as Follows: Beets, Corn, Lima Beans, Okra, Pumpkins, Peas, String Beans, Succotash, Tomatoes; Preserved Jellies and Jams as Follows: Currant Jelly, Strawberry, Raspberry; Canned Fruits as Follows: Cherries, Pineapple; Horse-Radish, Olives, Pure Cider Vinegar.

Claims use since August, 1913.

Ser. No. 337,042. JONES DAIRY FARM, INC., Fort Atkinson, Wis. Filed Apr. 21, 1933.

SLICED  **BACON**

Applicant hereby disclaims the words "Sliced Bacon, Hickory Smoked, Made by, Fort Atkinson, Wis.", apart from the mark as shown on the drawing.

For Sliced Bacon.

Claims use since May 1, 1933.

Ser. No. 340,242. LUIGI SAPUTO, doing business as West New York Grocery Co., West New York, N. J. Filed July 29, 1933.



The word "Marca" is disclaimed apart from the mark as shown.
For Olive Oil.
Claims use since Jan. 1, 1928.

Ser. No. 340,590. MRS. HIRAM J. HAYS, New Rochelle, N. Y. Filed Aug. 9, 1933.



All notations except "Mrs. H. J. Hays, Orangall" are disclaimed apart from the mark as shown on the drawing.
For Jars of Preserves.
Claims use since July 1, 1933.

Ser. No. 340,924. NESTLÉ'S MILK PRODUCTS, INC., New York, N. Y. Filed Aug. 22, 1933.

NESTLÉ
BRAND
MILK

The applicant is the owner of registration No. 188,089, under the ten-year proviso. Applicant disclaims the words "Brand" and "Milk" apart from the mark as shown.
For Evaporated and Condensed Milk.
Claims use since Aug. 7, 1933.

Ser. No. 341,215. W. A. TAYLOR & CO., New York, N. Y. Filed Aug. 31, 1933.

ALPI

For Olive Oil.
Claims use since Feb. 1, 1932.

Ser. No. 342,203. STAHL-MEYER, INC., New York, N. Y. Filed Oct. 6, 1933.

Crock of the Farm

For Sausages.
Claims use since Aug. 30, 1933.

Ser. No. 342,514. FRANK ALESSIO, Chicago, Ill. Filed Oct. 16, 1933.

GREEN STAR

For Olive Oil, Canned Tomatoes, Tomato Paste, Tuna Fish, and Filets of Anchovies.
Claims use since Sept. 21, 1933.

Ser. No. 342,625. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Oct. 18, 1933.

DIACO

For Amylo-Dextrin Malt Mixture, a Substantially Flavorless Product Used as an Ingredient of Foods and Food Beverages.
Claims use since Apr. 3, 1933.

Ser. No. 342,791. SIDNEY COHEN, doing business as Morris Cohen, New York, N. Y. Filed Oct. 23, 1933.

Ganeden

גן עדן

The word "Ganeden" means "Garden of Eden" in Hebrew. The Hebrew characters may be translated into English as "Garden of Eden."
For Canned Food Products—Namely, Canned Salmon and Canned Tuna Fish.
Claims use since December, 1932.

Ser. No. 343,035. THE GOBELIN COMPANY, INC., Cambridge, Mass. Filed Oct. 30, 1933.

GOBELIN CO-OPERATIVE CHOCOLATES

No claim is made to the word "Chocolates" except in the precise relation and association in which the same appears herein.
For Candy.
Claims use since Apr. 17, 1933.

Ser. No. 343,299. NEW ENGLAND IMPORTATION COMPANY, Boston, Mass. Filed Nov. 6, 1933.

MURI

N.E.I. CO.
MURI BRAND

The word "Brand" is disclaimed apart from the mark as shown on the drawing.
For Antipasto, Individual Roquefort Cheese, Imported Grated Cheese, Portion Imported Camembert Cheese, Limburger Cheese, Capers, Maraschino Type Cherries, Filet of Anchovies, Honey, Horse-Radish, Jams, Jellies, Preserves, Macaroni, Spaghetti, Mayonnaise, Prepared Mustard, Olive Oil, Cotton-Seed Oil, Olives (Queen, Stuffed Manzanilla), Pickles (Sweet Gherkins, Sweet Mixed, Sour Gherkins, Sour Mixed, Dill), Piccalilli, Pickled Onions, Pickled Limes, Pickled Peppers, Peanut Butter, Tomato Catsup, Granulated Gelatine, Tomato Juice, Vinegar, Maple Syrup, Spanish Pimentos, Italian Tomatoes, Tomato Paste, French Mushrooms, Worcestershire Sauce.
Claims use since July 30, 1933.

Ser. No. 343,597. WILLIAM J. CONNORS, San Jose, Calif. Filed Nov. 13, 1933.

Vi-tonic

No claim is made to the exclusive use of the word "Tonic" apart from the mark as shown in the drawing.
For Bread.
Claims use since Jan. 15, 1933.

Ser. No. 343,605. GENERAL MILLS, INC., Minneapolis, Minn. Filed Nov. 13, 1933.

Why Not Now?

For Cereal Products, Particularly Wheat Flour, Cereal Breakfast Foods, Pancake Flour; Buckwheat, Wheat, and Corn Pancake Flour; Cake Flour, and Biscuit Flour.
Claims use since June, 1912.

Ser. No. 344,056. INTERNATIONAL MATE COMPANY, INC., New York, N. Y. Filed Nov. 23, 1933.

JOYZ



For Mate Tea.
Claims use since Jan. 6, 1925.

Ser. No. 344,607. HARRY A. SIONS, doing business as Ortolana Company, Philadelphia, Pa. Filed Dec. 7, 1933.

ORTOLANA

For Vegetable Salad Oil.
Claims use since Nov. 24, 1933.

CLASS 47

Wines

Ser. No. 344,015. SOCIETE ANONYME CHAMPAGNE ERNEST IRROY, Reims, France. Filed Nov. 22, 1933.



Trade-mark consists of a gold stripe on a black or opaque background.
For Champagne and Sparkling Wines.
Claims use since Nov. 21, 1904.

Ser. No. 344,454. MARVIN AND SNEAD, INC., New York, N. Y. Filed Dec. 5, 1933.

Metropole

For Wines.
Claims use since Nov. 15, 1933.

Ser. No. 344,526. DELBECK & CIE, SOCIETE A RESPONSABILITE LIMITEE, Reims, France. Filed Dec. 6, 1933. Under 10-year proviso.



For Champagne Wines.
Claims use since 1865.

Ser. No. 344,590. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y. Filed Dec. 7, 1933.



For Wines.
Claims use since Aug. 10, 1894.

Ser. No. 344,621. DISTILLERS PRODUCTS CORPORATION OF AMERICA, New York, N. Y. Filed Dec. 8, 1933.



For Wine.
Claims use since Dec. 6, 1933.

Ser. No. 344,697. BENEDICT-SWENSON CO., Los Angeles, Calif. Filed Dec. 9, 1933.

Don Pedro

For Wines.
Claims use since July 12, 1933.

CLASS 48

Malt Beverages and Liquors

Ser. No. 333,115. CLOVERDALE SPRING CO., Baltimore, Md. Filed Dec. 16, 1932. Under section 5b of the act of 1905, as amended in 1920. Under 10-year proviso.



Cloverdale

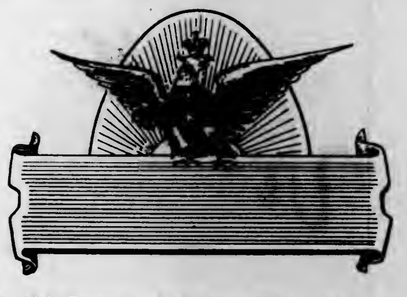
Applicant is owner of registration No. 120,016.
For Malt Beverage with Not More Than the Legal Alcoholic Content.
Claims use since Dec. 9, 1932.

Ser. No. 343,910. BOWLER BREWING COMPANY, Worcester, Mass. Filed Nov. 21, 1933. Under 10-year proviso.

TADCASTER

Applicant is owner of T. M. Reg. No. 58,274.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1st of the year, 1885.

Ser. No. 344,422. BAVARIA-UND ST. PAULI-BRAUEREI, Hamburg, Germany. Filed Dec. 4, 1933.



For Malt Beverage of Not More Than Legal Alcoholic Content.
Claims use since March, 1893.

Ser. No. 344,424. BAVARIA-UND ST. PAULI-BRAUEREI, Hamburg, Germany. Filed Dec. 4, 1933.



For Malt Beverage of Not More Than Legal Alcoholic Content.
Claims use since July, 1893.

Ser. No. 344,425. BAVARIA-UND ST. PAULI-BRAUEREI, Hamburg, Germany. Filed Dec. 4, 1933.



For Malt Beverage of Not More Than Legal Alcoholic Content.
Claims use since January, 1924.

Ser. No. 344,441. PHOENIX BREWING COMPANY, Bay City, Mich. Filed Dec. 4, 1933.

"MICHIGAN'S PRIDE"

For Beer.
Claims use since May, 1933.

Ser. No. 344,622. DISTILLERS PRODUCTS CORPORATION OF AMERICA, New York, N. Y. Filed Dec. 8, 1933.



For Beer and Ale.
Claims use since Dec. 6, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 342,352. HERMAN KRAUS, New York, N. Y. Filed Oct. 11, 1933. Under 10-year proviso.

LONDON CLUB

For Gin, Whiskey, Rum, and Brandy.
Claims use since 1894.

Ser. No. 342,902. FRATELLI FERRERO DI RICCARDO, Turin, Italy. Filed Oct. 25, 1933.



No claim is made to any of the words appearing on the drawing with the exception of the name "Ferrero", "Flli Ferrero di Riccardo", and the initials "FFR." The drawing is lined for red and gold.
For Vermuth.
Claims use since Oct. 1, 1903.

Ser. No. 342,935. ALFRED ZWEIFEL, MALAGA-KELLEREIEN A. G., Lenzburg, Switzerland. Filed Oct. 25, 1933.



The words "Marca Registrada" are disclaimed apart from the mark shown on the drawing.
For Whiskey, Rum, Gin, Brandy, and Beverages Containing Distilled Alcoholic Liquors.
Claims use since Apr. 19, 1910.

Ser. No. 343,160. D. H. & J. H. CARSTAIRS, Philadelphia, Pa. Filed Nov. 2, 1933. Under 10-year proviso.

CARSTAIRS

For Whiskey.
Claims use since 1894.

Ser No. 343,270. COURVOISIER, LIMITED, Jarnac, France. Filed Nov. 6, 1933. Under 10-year proviso.

Courvoisier

For Brandies.
Claims use since 1828.

Ser. No. 343,324. HORACIO DE CORDOVA, New York, N. Y. Filed Nov. 7, 1933.



The words "Rum" and "Superfine Products" are disclaimed apart from the mark as shown in the drawing.

For Rum, Brandy, Cognac, Gin, Whiskey, Creme de Menthe, Anisette, and Distilled Alcoholic Cocktails and Cordials.

Claims use since Oct. 15, 1933.

Ser. No. 343,417. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 8, 1933.

London Country Club

No claim is made to the word "Club" apart from the mark shown on the drawing.

For Gin.

Claims use since Sept. 1, 1929.

Ser. No. 343,422. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 8, 1933.

RHUM NEGRESSO

No claim is made to the exclusive use of the word "Rhum."

For Rum, Whiskey, and Gin.

Claims use since July 1, 1929.

Ser. No. 343,424. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 8, 1933.

Three Swallows

For Gin.

Claims use since July 15, 1931.

Ser. No. 343,444. THE FREIBERG & WORKUM CO., Cincinnati, Ohio. Filed Nov. 9, 1933.

EAGLE

For Gin.

Claims use since 1883.

Ser. No. 343,503. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 10, 1933.



The term "Highland" is disclaimed apart from the mark as shown.

For Whiskey and Other Potable Distilled Spirits.

Claims use since April, 1924.

Ser. No. 343,523. SOCIETE ANONYME DES PRODUITS MARNIER-LAPOSTOLLE, Paris, France. Filed Nov. 10, 1933.



COGNAC

Grand Marnier



All the wording is disclaimed except "Cordon Rouge", "Grand Marnier", "Chateau de Bourg", and "Marnier-Lapostolle."

For Brandies.

Claims use since Oct. 3, 1933.

Ser. No. 343,654. HERCULES PRODUCTS & DISTILLING CORPORATION, Brooklyn, N. Y. Filed Nov. 14, 1933.

HERCULES



No claim is made to the words "Trade-Mark."

For Gin.

Claims use since June, 1933.

Ser. No. 343,660. ALEXANDER MCGAVIN & CO., LIMITED, Glasgow, Scotland. Filed Nov. 14, 1933.

OLD MONARCH

For Scotch Whisky.

Claims use since 1914.

Ser. No. 343,713. UNITED DISTILLERS & WINERS, INC., Detroit, Mich. Filed Nov. 15, 1933.

Old Nobility

For Whiskies and Other Potable Distilled Alcoholic Liquors.

Claims use since Sept. 1, 1933.

Ser. No. 343,733. HERCULES PRODUCTS & DISTILLING CORPORATION, Brooklyn, N. Y. Filed Nov. 16, 1933.



No claim is made to the words "Trade-Mark."

For Gin.

Claims use since June, 1933.

Ser. No. 343,734. HERCULES PRODUCTS & DISTILLING CORPORATION, Brooklyn, N. Y. Filed Nov. 16, 1933.



The figure in the drawing is fanciful. No claim is made to the words "Trade-Mark."

For Gin.

Claims use since June, 1933.

Ser. No. 343,901. EDMUND MELHADO & CO., INC., New York, N. Y. Filed Nov. 16, 1933.



No claim is made to the words "Light Colour, Old Jamaica Rum, Product of Jamaica", nor to the outline of the label apart from the mark shown.

For Rum and Other Spirituous Liquors.

Claims use since Sept. 15, 1933.

Ser. No. 343,997. LOW, ROBERTSON & COMPANY, LIMITED, Leith, Scotland. Filed Nov. 22, 1933.

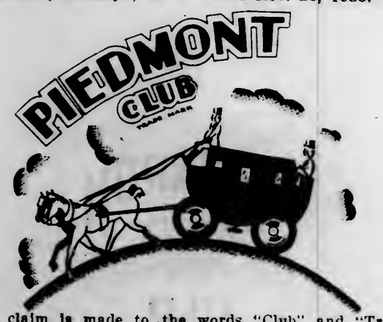


The drawing is lined for the color red which is an essential feature of the mark. Applicant disclaims all wording shown save applicant's name and the word "Loretto" except in the relation in which the same appear herein.

For Scotch Whisky.

Claims use since Dec. 31, 1910.

Ser. No 344,093. HERCULES PRODUCTS & DISTILLING CORPORATION, Brooklyn, N. Y. Filed Nov. 24, 1933.



No claim is made to the words "Club" and "Trade-Mark."

For Gin.

Claims use since June, 1933.

Ser. No. 344,340. FRED. L. MYERS & SON, Kingston, Jamaica. Filed Dec. 1, 1933.



For Rum.

Claims use since March, 1914.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JANUARY 16, 1934

309,438. DENTIFRICE, MOUTH WASH, AND MOUTH GARGLE. CLARE S. WEINBERG, doing business as Denticol Company, New York, N. Y.
Filed August 2, 1933. Serial No. 340,329. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,439. REFRACTORY BRICKS. OESTERREICHISCH AMERIKANISCHE MAGNESIT AKTIENGESELLSCHAFT, Radentheln, Austria.
Filed August 5, 1933. Serial No. 340,452. PUBLISHED NOVEMBER 7, 1933. Class 12.

309,440. MEDICINAL PREPARATION. THIOPHENE LABORATORIES, INC., Chicago, Ill.
Filed August 12, 1933. Serial No. 340,660. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,441. DORMANT SPRAY CONSISTING OF AN EMULSIFIED BLEND OF TAR AND PETROLEUM OILS COMPOUNDED FOR EFFECTIVE CONTROL OF APHIS, SCALE, AND LIKE CONDITIONS ON FRUIT TREES. CENTRAL CHEMICAL COMPANY, INC., Hagerstown, Md.
Filed August 14, 1933. Serial No. 340,670. PUBLISHED OCTOBER 31, 1933. Class 6.

309,442. VALVES, PIPE HANGERS, TORCHES, ETC. MUELLER BRASS CO., Port Huron, Mich.
Filed May 25, 1931. Serial No. 315,003. PUBLISHED OCTOBER 27, 1931. Class 13.

309,443. TOILET LOTION FOR THE SKIN AND HANDS. L. JENNINGS SHAW, doing business as Lady Marie Products Co., McKeesport, Pa.
Filed August 14, 1933. Serial No. 340,697. PUBLISHED OCTOBER 31, 1933. Class 6.

309,444. TABLETS FOR REDUCING, HAVING A LAXATIVE EFFECT. EMILIE R. LIPPINCOTT, Ventnor City, N. J.
Filed August 8, 1933. Serial No. 340,704. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,445. SOAP. NASSOUR BROTHERS INC. LTD., Los Angeles, Calif., and Chicago, Ill.
Filed August 19, 1933. Serial No. 340,858. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,446. COSMETIC PREPARATIONS. STANDARD BEAUTY PARLOR SUPPLY CO., New York, N. Y.
Filed August 21, 1933. Serial No. 340,900. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,447. COFFEE. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y.
Filed September 1, 1933. Serial No. 341,228. PUBLISHED OCTOBER 31, 1933. Class 46.

309,448. TABLE FOOTBALL BOARD GAME PLAYED WITH PIECES. SAMUEL A. DUNCAN, Englewood, N. J.
Filed September 2, 1933. Serial No. 341,277. PUBLISHED NOVEMBER 7, 1933. Class 22.

309,449. WHISKEY. EMIL NATHAN, St. Louis, Mo.
Filed September 2, 1933. Serial No. 341,299. PUBLISHED OCTOBER 24, 1933. Class 49.

309,450. WHISKEY AND OTHER POTABLE DISTILLED LIQUORS. THE J. KRAMER COMPANY, COMMISSION MERCHANTS INC., New York, N. Y.
Filed September 6, 1933. Serial No. 341,369. PUBLISHED OCTOBER 31, 1933. Class 49.

309,451. MINIATURE TOY MODELS OF THE SKY RIDE CENTURY OF PROGRESS ELECTRICALLY OPERATED, WITH TOY CARS OPERATING ON AN ENDLESS BELT SUSTAINED BY METAL STAMPED TOWERS. RAY M. COPE, Chicago, Ill.
Filed September 7, 1933. Serial No. 341,416. PUBLISHED NOVEMBER 7, 1933. Class 22.

309,452. GOLF PRACTICE BALL RETURNING DEVICE. THE BOOMERANG CO., INC., Chicago, Ill.
Filed September 9, 1933. Serial No. 341,451. PUBLISHED NOVEMBER 7, 1933. Class 22.

309,453. WHISKY. GEORGE COWIE & SON, LIMITED, Dufftown, Scotland.
Filed September 9, 1933. Serial No. 341,452. PUBLISHED OCTOBER 31, 1933. Class 49.

309,454. WINES. MOUQUIN, INCORPORATED, New York and Brooklyn, N. Y.
Filed September 9, 1933. Serial No. 341,464. PUBLISHED NOVEMBER 7, 1933. Class 47.

309,455. SCOTCH WHISKY. REID, WRIGHT & HOLLOWAY (DISTILLERS), LIMITED, London, England.
Filed September 11, 1933. Serial No. 341,494. PUBLISHED NOVEMBER 7, 1933. Class 49.

309,456. WHISKEY. CHIVAS BROTHERS, Aberdeen, Scotland.
Filed September 12, 1933. Serial No. 341,525. PUBLISHED NOVEMBER 7, 1933. Class 49.

309,457. WHISKEY. GLENCOE DISTILLERY CO., INC., Louisville, Ky.
Filed September 13, 1933. Serial No. 341,551. PUBLISHED OCTOBER 31, 1933. Class 49.

309,458. WHISKEY. NICHOLSON & SONS LIMITED, Maidenhead, England.
Filed September 14, 1933. Serial No. 341,586. PUBLISHED OCTOBER 31, 1933. Class 49.

309,459. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. WALTER H. WEBER, doing business as National Brewing Company, Saginaw, Mich.
Filed September 15, 1933. Serial No. 341,616. PUBLISHED NOVEMBER 7, 1933. Class 48.

309,460. INSECTICIDAL AND FUNGICIDAL SPRAYS USED FOR AGRICULTURAL PURPOSES. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif.
Filed June 6, 1933. Serial No. 338,556. PUBLISHED JULY 25, 1933. Class 6.

309,461. TOILET PREPARATIONS—TO WIT, SKIN DRESSING (A MASSAGE CREAM), TISSUE CREAM, SKIN FRESHENER, STRAWBERRY CREAM, CLEANSING CREAM, HAND LOTION. DON C. GRIFFITH, Rochester, N. Y.
Filed June 20, 1933. Serial No. 339,029. PUBLISHED OCTOBER 31, 1933. Class 6.

309,462. ALUMINUM INGOTS. U. S. REDUCTION CO., East Chicago, Ind.
Filed June 29, 1933. Serial No. 339,372. PUBLISHED NOVEMBER 7, 1933. Class 14.

309,463. EAR-DROPS. THE DOHO CHEMICAL CORPORATION, New York, N. Y.
Filed July 6, 1933. Serial No. 339,512. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,464. CLEANING AND WASHING COMPOUND. SERENE KLEANER COMPANY, Cleveland, Ohio.
Filed July 14, 1933. Serial No. 339,767. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,465. COSMETIC PREPARATIONS, CORN-SALVE, ETC. PARFUMERIE ST. DENIS, New York, N. Y.
Filed July 15, 1933. Serial No. 339,794. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,466. INSULATION PRODUCTS, ESPECIALLY ADAPTED AS A PIPE COVERING. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed July 15, 1933. Serial No. 339,785. PUBLISHED OCTOBER 31, 1933. Class 12.

309,467. BOWEL REGULATOR OR INTESTINAL CLEANSER. GEORGE H. HYLAND, doing business as Standard Homeopathic Company, Los Angeles, Calif.
Filed July 17, 1933. Serial No. 339,826. PUBLISHED OCTOBER 31, 1933. Class 6.

309,468. FOODS PREPARED ACCORDING TO CHINESE RECIPES—NAMELY, CHOP SUEY. WIELAND'S GLORIFIED KITCHENS, INC., Chicago, Ill.
Filed July 17, 1933. Serial No. 339,846. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,469. HONEY. ROBERT COLE, Oakland, Calif.
Filed July 17, 1933. Serial No. 339,884. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,470. CEREAL BREAKFAST FOOD. MARSHALL E. JONES, Canonsburg, Pa.
Filed July 21, 1933. Serial No. 340,073. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,471. SCOTCH WHISKY. A. & A. CRAWFORD, Leith, Scotland.
Filed March 16, 1933. Serial No. 335,719. PUBLISHED MAY 30, 1933. Class 49.

309,472. WHISKEY. GLENMORE DISTILLERIES CO., Owensboro, Ky.
Filed August 24, 1933. Serial No. 340,976. PUBLISHED NOVEMBER 7, 1933. Class 49.

309,473. WHISKEY. GLENMORE DISTILLERIES CO., Owensboro, Ky.
Filed August 24, 1933. Serial No. 340,975. PUBLISHED OCTOBER 17, 1933. Class 49.

309,474. BRANDIES. JOSEPH GALLIN-MARTEL, Cognac, France.
Filed August 19, 1933. Serial No. 340,833. PUBLISHED NOVEMBER 7, 1933. Class 49.

309,475. BEER-PIPE CLEANING APPARATUS CONSISTING OF A CLEANING COMPOUND RECEPTACLE, TUBING, AND COUPLINGS. WALTER L. SCHWARTZ, doing business as Ritz Chemical Company of New Jersey, Newark, N. J.
Filed August 18, 1933. Serial No. 340,816. PUBLISHED NOVEMBER 7, 1933. Class 13.

309,476. PNEUMATIC TIRES AND INNER TUBES. BENTON-BAILEY COMPANY, INCORPORATED, Richmond, Va.
Filed August 18, 1933. Serial No. 340,788. PUBLISHED NOVEMBER 7, 1933. Class 35.

309,477. BRAKE LINING. RAYBESTOS-MANHATTAN, INCORPORATED, Passaic, N. J., and Bridgeport, Conn.
Filed August 11, 1933. Serial No. 340,666. PUBLISHED NOVEMBER 7, 1933. Class 35.

309,478. PORTABLE HAND FIRE EXTINGUISHERS. THE GENERAL FIRE TRUCK CORPORATION, St. Louis, Mo.
Filed August 10, 1933. Serial No. 340,578. PUBLISHED NOVEMBER 7, 1933. Class 23.

309,479. AUTOMOBILE ACCESSORIES—NAMELY, AUTOMOBILE HEATERS UTILIZING FLUIDS FROM MOTOR, AUTOMOBILE WINDSHIELD WIPERS, AND AUTOMOBILE REAR VIEW MIRRORS. DAISY ELECTRICAL MANUFACTURING CORPORATION, Brooklyn, N. Y.
Filed August 4, 1933. Serial No. 340,427. PUBLISHED NOVEMBER 7, 1933. Class 19.

309,480. CRUSHER PARTS. OLIVER J. WILLIAMS, San Francisco, Calif.
Filed July 26, 1933. Serial No. 340,142. PUBLISHED NOVEMBER 7, 1933. Class 23.

309,481. OLIVE OIL. BERNARDO LO CURTO, doing business as R. Lo Curto, New York, N. Y.
Filed July 18, 1933. Serial No. 339,870. PUBLISHED OCTOBER 31, 1933. Class 46.

309,482. MALT BEVERAGES AND WORT. GABRIEL U. JOS. SEDLMAYR SPATEN-FRANZISKANER-LEISTBRAU A.-G. MÜNCHEN, Munich, Germany.
Filed July 17, 1933. Serial No. 339,821. PUBLISHED NOVEMBER 7, 1933. Class 48.

309,483. MEN'S AND BOYS' CLOTHING—NAMELY, SUITS, COATS, PANTS, VESTS, OVERCOATS, TOPCOATS, AND JACKETS. ALCO-ZANDER COMPANY, Philadelphia, Pa.
Filed July 12, 1933. Serial No. 339,662. PUBLISHED OCTOBER 31, 1933. Class 39.

309,484. PAPER BAGS. E-Z OPENER BAG COMPANY, Tuscaloosa, Ala.
Filed July 7, 1933. Serial No. 339,555. PUBLISHED NOVEMBER 7, 1933. Class 2.

309,485. OUTER WEARING APPAREL FOR WOMEN AND GIRLS—NAMELY, DRESSES AND FROCKS. FOREST CITY MANUFACTURING CO., St. Louis, Mo.
Filed June 12, 1933. Serial No. 338,772. PUBLISHED SEPTEMBER 12, 1933. Class 39.

309,486. NEGLIGÉE SHIRTS, PAJAMAS, AND UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. THE B. V. D. COMPANY, INC., Baltimore, Md.
Filed June 10, 1933. Serial No. 338,714. PUBLISHED AUGUST 15, 1933. Class 39.

309,487. HAND-OPERATED COMPRESSED-AIR-USING TOOL FOR CLEANING DRAINS AND PIPES, TRAPS, AND SINK AND THE LIKE. SILVERS MANUFACTURING COMPANY, Waterloo, Iowa.
Filed May 27, 1933. Serial No. 338,293. PUBLISHED NOVEMBER 7, 1933. Class 23.

309,488. OLIVE OIL. MUTASCIO BROTHERS, New York, N. Y.
Filed May 26, 1933. Serial No. 338,255. PUBLISHED OCTOBER 31, 1933. Class 46.

309,489. SHOWER SHEETS, ALSO KNOWN AS SHOWER CURTAINS, FOR BATH ROOMS. JACOB C. REZNIK, doing business as Ajed Textiles, New York, N. Y.
Filed May 11, 1933. Serial No. 337,719. PUBLISHED NOVEMBER 7, 1933. Class 13.

309,490. DOLLS. LEO FISHER, Highland Park, Ill.
Filed January 23, 1933. Serial No. 334,251. PUBLISHED NOVEMBER 7, 1933. Class 22.

309,491. BEER WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. THE STANDARD BREWING COMPANY, Cleveland, Ohio.
Filed September 19, 1933. Serial No. 341,701. PUBLISHED NOVEMBER 7, 1933. Class 48.

309,492. BOTTLED BEER. FAUST IMPERIAL BOTTLERS, doing business as Stein King Beer Co., Columbia, S. C.
Filed September 14, 1933. Serial No. 341,619. PUBLISHED NOVEMBER 7, 1933. Class 48.

309,493. COGNAC BRANDY. SOCIETE A RESPONSABILITE LIMITEE THOMAS HINE & CIE., Jarnac, France.
Filed September 16, 1933. Serial No. 341,639. PUBLISHED OCTOBER 31, 1933. Class 49.

309,494. WINES. MOUQUIN, INC., New York and Brooklyn, N. Y.
Filed September 22, 1933. Serial No. 341,790. PUBLISHED NOVEMBER 7, 1933. Class 47.

309,495. WINES. L. GANDOLFI & CO., INC., New York, N. Y.
Filed September 25, 1933. Serial No. 341,863. PUBLISHED NOVEMBER 7, 1933. Class 47.

309,496. SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed March 21, 1933. Serial No. 335,025. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,497. SOAPS. HOUSE OF TRE-JUR, INC., New York, N. Y.
Filed March 23, 1933. Serial No. 336,005. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,498. PREPARATION FOR CHAPPED LIPS. ALFRED G. E. WOELBING, doing business as Carma Laboratories, Chicago, Ill.
Filed March 23, 1933. Serial No. 336,030. PUBLISHED JUNE 6, 1933. Class 6.

309,499. TIRE VALVE CAPS, TIRE VALVES, AUTO TOW CHAINS, AND TIRE CHAINS. THE TENAS COMPANY, New York, N. Y.
Filed September 29, 1933. Serial No. 342,017. PUBLISHED NOVEMBER 7, 1933. Class 13.

309,500. DISINFECTANT, COD-LIVER OIL, TISSUE CREAM, INSECT DESTROYERS—NAMELY, INSECTICIDES, LIQUID COAL TAR, AND POULTRY MINERAL. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 15, 1933. Serial No. 335,695. PUBLISHED OCTOBER 31, 1933. Class 6.

309,501. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. BOURJOIS, INC., New York, N. Y.
Filed June 3, 1933. Serial No. 338,481. PUBLISHED OCTOBER 31, 1933. Class 6.

309,502. WINES. L. GANDOLFI & CO., INC., New York, N. Y.
Filed September 25, 1933. Serial No. 341,864. PUBLISHED NOVEMBER 7, 1933. Class 47.

309,503. PERFUME. CHANEL, INC., New York, N. Y.
Filed April 6, 1933. Serial No. 336,496. PUBLISHED OCTOBER 31, 1933. Class 6.

309,504. INSECTICIDES, INCLUDING AGRICULTURAL SPRAY, BED-BUG SPRAY, FLY SPRAY, MOSQUITO SPRAY, ANIMAL SPRAY, ROACH POWDER, RAT EXTERMINATOR, AND MOTH SPRAY. J. E. MILLER TRANSFER AND STORAGE CO., Wheeling, W. Va.
Filed April 29, 1933. Serial No. 337,304. PUBLISHED OCTOBER 31, 1933. Class 6.

309,505. WINES. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y.
Filed August 25, 1933. Serial No. 341,021. PUBLISHED NOVEMBER 7, 1933. Class 47.

309,506. SILOS, STORAGE POCKETS, STORAGE TANKS, COAL POCKETS, AND BINS. CRAINE, INC., Norwich, N. Y.
Filed August 28, 1933. Serial No. 341,075. PUBLISHED NOVEMBER 7, 1933. Class 2.

309,507. FAUCETS FOR BARRELS AND LIKE CONTAINERS. ALBERTO LOUIS MAGGENTI, San Francisco, Calif.
Filed August 29, 1933. Serial No. 341,134. PUBLISHED NOVEMBER 7, 1933. Class 13.

309,508. EDUCATIONAL APPLIANCE ELECTRICALLY OPERATED AND DESIGNED PRIMARILY FOR THE SOLUTION OF ELEMENTAL PROBLEMS IN ARITHMETIC, AS ADDITION AND SUBTRACTION, AND FOR THE FURTHER PURPOSE OF CORRECTLY ANSWERING QUESTIONS IN HISTORY, LANGUAGE, AND OTHER KINDRED SUBJECTS. JAMES K. ALLEN, doing business as Educational Specialties Company, Spokane, Wash.
Filed August 28, 1933. Serial No. 341,084. PUBLISHED NOVEMBER 7, 1933. Class 22.

309,509. PORT WINE. VALENTE, COSTA & COMPANHIA, LIMITADA, Villa Nova de Gaya, Portugal.
Filed August 30, 1933. Serial No. 341,172. PUBLISHED NOVEMBER 7, 1933. Class 47.

309,510. COFFEE. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y.
Filed August 30, 1933. Serial No. 341,164. PUBLISHED OCTOBER 31, 1933. Class 46.

309,511. COFFEE. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y.
Filed August 31, 1933. Serial No. 341,200. PUBLISHED OCTOBER 31, 1933. Class 46.

309,512. CASTERS FOR FURNITURE. THOMAS P. DUNCAN, Jr., Newport News, Va.
Filed August 31, 1933. Serial No. 341,197. PUBLISHED NOVEMBER 7, 1933. Class 13.

309,513. SOLVENT NAPHTHA CLEANING FLUID. SOCONY-VACUUM CORPORATION, New York, N. Y.
Filed September 22, 1933. Serial No. 341,810. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,514. PREPARED DOUGHNUT COMPOUND. THE C. M. PITT & SONS CO., Baltimore, Md.
Filed September 21, 1933. Serial No. 341,773. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,515. STOP-LEAK FOR RADIATORS AND RADIATOR CLEANER. WIZARD, INC., Chicago, Ill.
Filed September 23, 1933. Serial No. 341,847. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,516. STOVES BURNING COAL, WOOD, AND SIMILAR FUELS. CHARLES W. HUGY, San Jose, Calif.
Filed September 21, 1933. Serial No. 341,824. PUBLISHED NOVEMBER 7, 1933. Class 34.

309,517. SEPARABLE SNAP FASTENERS VARIOUSLY APPLIED TO ARTICLES OF MANUFACTURE IN THE INDUSTRIAL ARTS. UNITED-CARR FASTENER CORPORATION, Cambridge, Mass.
Filed September 28, 1933. Serial No. 341,999. PUBLISHED NOVEMBER 7, 1933. Class 13.

309,518. TIRE CHAINS. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del.
Filed September 27, 1933. Serial No. 341,940. PUBLISHED NOVEMBER 7, 1933. Class 13.

309,519. CIGARS. WEBSTER EISENLOHR, INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,704. PUBLISHED NOVEMBER 7, 1933. Class 17.

309,520. CIGARS. H. DE CABANAS Y CARBAJAL, Jersey City, N. J.
Filed September 19, 1933. Serial No. 341,683. PUBLISHED NOVEMBER 7, 1933. Class 17.

309,521. LEATHER. R. NEUMANN & COMPANY, Hoboken, N. J.
Filed September 20, 1933. Serial No. 341,734. PUBLISHED NOVEMBER 7, 1933. Class 1.

309,522. CIGARS. WEBSTER EISENLOHR, INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,705. PUBLISHED NOVEMBER 7, 1933. Class 17.

309,523. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. ELIZABETH BREWING CORPORATION, Elizabeth, N. J.
Filed September 22, 1933. Serial No. 341,792. PUBLISHED NOVEMBER 7, 1933. Class 48.

309,524. ICE-CREAM BAR. NORTH AMERICAN CREAMERIES, INCORPORATED, Paynesville, Minn.
Filed September 20, 1933. Serial No. 341,735. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,525. BEER. KUHN'S BEER INC., Jamestown, N. Y.
Filed September 20, 1933. Serial No. 341,727. PUBLISHED NOVEMBER 7, 1933. Class 48.

309,526. BEER, ALE, AND PORTER OF THE LEGALIZED ALCOHOLIC PERCENTAGE. HARRY J. OSTERSTOCK, doing business as Seitz Brewery, Easton, Pa.
Filed September 20, 1933. Serial No. 341,736. PUBLISHED NOVEMBER 7, 1933. Class 48.

309,527. WINE. WIDMER'S WINE CELLARS, Naples, N. Y.
Filed September 19, 1933. Serial No. 341,709. PUBLISHED NOVEMBER 7, 1933. Class 47.

309,528. GIN. COMMANDITAIRE VENNOOTSCHAP ONDER DE FIRMA P. HOPPE, Schiedam, and Amsterdam, Netherlands.
Filed September 20, 1933. Serial No. 341,724. PUBLISHED OCTOBER 31, 1933. Class 49.

309,529. FRANKFURTER SAUSAGE. JOHN N. MATSCHEK, Portland, Oreg.
Filed September 18, 1933. Serial No. 341,659. PUBLISHED OCTOBER 31, 1933. Class 46.

309,530. MATTRESSES AND UPHOLSTERED BOX SPRINGS. NATIONAL MATTRESS COMPANY, Huntington, W. Va.
Filed April 19, 1933. Serial No. 336,953. PUBLISHED JUNE 6, 1933. Class 32.

309,531. FIRE-CLAY BRICKS OR BLOCKS OF SPECIAL SHAPES SPECIALLY TREATED AND BURNED SO AS TO PRODUCE A LIGHTWEIGHT REFRACTORY PRODUCT OF HIGH-INSULATING VALUE WITH LOW-HEAT STORAGE. NATIONAL FIREPROOFING CORPORATION, Pittsburgh, Pa.
Filed September 14, 1933. Serial No. 341,585. PUBLISHED OCTOBER 31, 1933. Class 12.

309,532. SOAP POWDER. IOWA SOAP COMPANY, Burlington, Iowa.
Filed September 12, 1933. Serial No. 341,519. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,533. IMPREGNATED OR COATED FABRICS. THE MANTLE LAMP COMPANY OF AMERICA, Chicago, Ill.
Filed September 8, 1933. Serial No. 341,467. PUBLISHED NOVEMBER 7, 1933. Class 50.

309,534. CLEANING PREPARATIONS FOR WASHING TEXTILES, ETC. GREAT EASTERN PRODUCTS CORPORATION, New York, N. Y.
Filed September 8, 1933. Serial No. 341,429. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,535. TALCUM POWDER, TOOTH PASTE, ETC. DAVIS & LAWRENCE CO., New York, N. Y.
Filed September 7, 1933. Serial No. 341,397. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,536. DYES FOR HAIR, EYELASHES, AND EYEBROWS. EY-TEB, INC., New York, N. Y.
Filed September 6, 1933. Serial No. 341,362. PUBLISHED OCTOBER 31, 1933. Class 6.

309,537. POLISHING AND CLEANSING POWDER FOR KITCHEN USE. PAL PRODUCTS CO., INC., Brooklyn, N. Y.
Filed September 5, 1933. Serial No. 341,337. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,538. COOKING AND HEATING STOVES BURNING GAS, OIL, COAL, WOOD, COKE, OR ANY OTHER FUEL. HARRY C. WEISKITTEL COMPANY, INC., Baltimore, Md.
Filed September 2, 1933. Serial No. 341,311. PUBLISHED NOVEMBER 7, 1933. Class 34.

309,539. CIGARS. ESTABROOK & EATON COMPANY, Boston, Mass.
Filed September 2, 1933. Serial No. 341,279. PUBLISHED NOVEMBER 7, 1933. Class 17.

309,540. OLIVE OIL. W. A. TAYLOR & CO., New York, N. Y.
Filed August 31, 1933. Serial No. 341,217. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,541. CHEMICAL COMPOUNDS ADAPTED FOR THE TREATMENT OF TEXTILE FIBERS AND FABRICS. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed August 31, 1933. Serial No. 341,213. PUBLISHED OCTOBER 31, 1933. Class 6.

309,542. DEODORIZERS. THE CANDO CORPORATION, Cambridge, Mass.
Filed August 30, 1933. Serial No. 341,159. PUBLISHED OCTOBER 31, 1933. Class 6.

309,543. COMPOSITION FOR SEALING THREADED, FLANGED, AND GASKET JOINTS. QUIGLEY COMPANY, INC., New York, N. Y.
Filed September 1, 1933. Serial No. 341,257. PUBLISHED NOVEMBER 7, 1933. Class 12.

309,544. IRRADIATED OIL PREPARATION FOR THE TREATMENT OF DRY SKIN. VITA-RAY CORPORATION, Lowell, Mass.
Filed August 29, 1933. Serial No. 341,145. PUBLISHED OCTOBER 31, 1933. Class 6.

309,545. EMULSIFIED OIL BASE PORTLAND CEMENT DECORATIVE WALL FINISH IN PLASTIC FORM. CHARLES F. MAUER, New York, N. Y.
Filed August 21, 1933. Serial No. 341,146. PUBLISHED OCTOBER 31, 1933. Class 12.

309,546. PREPARATION FOR THE TREATMENT OF DERMATOMYCOSIS (ATHLETE FOOT, RING WORM, TRICHOPHYTOSIS). LAWRENCE BRYANT FARRIOR, doing business as Lawrence Bryant Farrior and Lawrence Laboratory, New York, N. Y.
Filed August 29, 1933. Serial No. 341,118. PUBLISHED OCTOBER 31, 1933. Class 6.

309,547. DYESTUFFS. GENERAL DYESTUFF CORPORATION, New York, N. Y.
Filed August 25, 1933. Serial No. 341,022. PUBLISHED OCTOBER 31, 1933. Class 6.

309,548. EMULSION OF MINERAL OIL WITH CASCARA SAGRADA. ANGIER CHEMICAL COMPANY, Allston, Boston, Mass.
Filed August 25, 1933. Serial No. 341,010. PUBLISHED OCTOBER 31, 1933. Class 6.

309,549. HOUSEHOLD AND STORE ELECTRICAL REFRIGERATORS. THE ACE PRODUCTS CORPORATION, Cincinnati, Ohio.
Filed October 20, 1932. Serial No. 331,395. PUBLISHED NOVEMBER 7, 1932. Class 31.

309,550. SOAPS, SHAVING CREAM, ETC. WILLIAM SCHER, New York, N. Y.
Filed October 6, 1932. Serial No. 331,010. PUBLISHED NOVEMBER 7, 1933. Class 4.

309,551. TOILET AND COSMETIC PREPARATIONS. WILLIAM SCHER, New York, N. Y.
Filed October 6, 1932. Serial No. 331,009. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,552. CANNED SARDINES. FRANK H. REYNOLDS, doing business as B. O. Bowers Co., New York, N. Y.
Filed August 25, 1932. Serial No. 329,840. PUBLISHED OCTOBER 31, 1933. Class 46.

309,553. TOILET PAPER. SEMINOLE PAPER CORPORATION, Chicago, Ill.
Filed June 22, 1932. Serial No. 328,228. PUBLISHED OCTOBER 10, 1933. Class 37.

309,554. SCYTHES, SICKLES, PLANING MACHINES, MILLING MACHINES, ETC. SIEMENS-SCHUCKERTWERKE AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany.
Filed November 6, 1931. Serial No. 320,877. PUBLISHED NOVEMBER 7, 1933. Class 23.

309,555. SMOKE SAUCE TO BE USED IN COOKING MEATS. THE FIGARO COMPANY, Dallas, Tex.
Filed August 18, 1931. Serial No. 318,099. PUBLISHED OCTOBER 31, 1933. Class 46.

309,556. COFFEE. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed July 11, 1930. Serial No. 303,396. PUBLISHED OCTOBER 31, 1933. Class 46.

LABELS

REGISTERED JANUARY 16, 1934

43,106.—*Title:* BEECH-NUT SPEARMINT GUM. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published April 23, 1933.

43,107.—*Title:* CAMPANA'S THE ORIGINAL SKIN INVIGORATOR. For Skin Invigorator. CAMPANA CORPORATION, Batavia, Ill. Published August 3, 1933.

43,108.—*Title:* CAMPANA'S THE ORIGINAL SKIN INVIGORATOR. For Skin Invigorator. CAMPANA CORPORATION, Batavia, Ill. Published August 10, 1933.

43,109.—*Title:* SECCO. For Canned Tomatoes. COMSTOCK CANNERIES, INC., Newark, N. Y. Published December 5, 1933.

43,110.—*Title:* PICCADILLY. For Gin. INTERNATIONAL IMPORTING CORP., New York, N. Y. Published December 6, 1933.

43,111.—*Title:* SHANNON DAWN. For Whiskey. INTERNATIONAL IMPORTING CORP., New York, N. Y. Published December 6, 1933.

43,112.—*Title:* KELLOGG'S ALL-BRAN. For Bran Food. KELLOGG COMPANY, Battle Creek, Mich. Published July 10, 1933.

43,113.—*Title:* KELLOGG'S BRAN FLAKES. For Bran Food. KELLOGG COMPANY, Battle Creek, Mich. Published September 15, 1933.

43,114.—*Title:* KELLOGG'S CORN FLAKES. For Ready-to-Eat Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published May 8, 1933.

43,115.—*Title:* KELLOGG'S PEP. For Toasted Wheat Cereal. KELLOGG COMPANY, Battle Creek, Mich. Published September 9, 1933.

43,116.—*Title:* KELLOGG'S WHEAT KRUMBLES. For Ready-to-Eat Wheat Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published January 5, 1933.

43,117.—*Title:* KELLOGG'S WHOLE WHEAT BISCUIT. For Shredded Wheat Biscuit.. KELLOGG COMPANY, Battle Creek, Mich. Published October 17, 1933.

43,118.—*Title:* KELLOGG'S WHOLE WHEAT FLAKES. For Ready-to-Eat Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published October 1, 1933.

43,119.—*Title:* HOLLYWOOD UNDIES. For Women's and Misses' Underwear. NATIONAL UNDERWEAR CORPORATION, Metropolis, Ill., and Chaffee, Mo. Published April 15, 1933.

43,120.—*Title:* SILVER WAVE. For Strawberries. OLYMPIA CANNING COMPANY, Olympia, Wash. Published November 15, 1933.

43,121.—*Title:* STERLCO IMPROVED SAFETY INK. For Ink. STERLCO INK COMPANY, Boston, Mass. Published October 6, 1932.

43,122.—*Title:* TAN-EX. For Sun Tan Oil. MAX M. WARSAW, Chicago, Ill. Published September 29, 1933.

43,123.—*Title:* HER GRACE BRAND FRUIT CAKE. For Fruit Cake. WESCO FOODS COMPANY, Cincinnati, Ohio. Published October 30, 1933.

43,124.—*Title:* HER GRACE BRAND FRUIT CAKE. For Fruit Cake. WESCO FOODS COMPANY, Cincinnati, Ohio. Published October 30, 1933.

PRINTS

REGISTERED JANUARY 16, 1934

14,507.—*Title:* ALT HEIDELBERG LAGER BEER. For Lager Beer. COLUMBIA BREWERIES INC., Seattle, Wash. Published August 7, 1933.

14,508.—*Title:* NOW! HAVE PERFECT BISCUITS! For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published Nov. 10, 1932.

14,509.—*Title:* IT COST $25,000 TO GIVE YOU THIS LATEST "KITCHEN-TESTED" RECIPE SET FREE! For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published November 28, 1933.

14,510.—*Title:* BUY MORE—PAY LESS. For Jewelry. GEORGE D. HORNING, Washington, D. C. Published November 24, 1933.

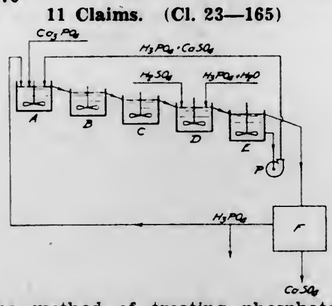
19,045

METHOD OF TREATING PHOSPHATE ROCK

Markus Larsson, Berlin, Germany, assignor to Kunstdunger - Patent - Verwertungs Aktiengesellschaft, Glarus, Switzerland

Original No. 1,836,672, dated December 15, 1931, Serial No. 508,830, January 15, 1931. Application for reissue December 29, 1932. Serial No. 649,970

11 Claims. (Cl. 23—165)



9. The method of treating phosphate rock which comprises dissolving the rock with a solvent, adding a precipitating reagent to the resulting solution to form a precipitate and to liberate phosphoric acid, and diluting the precipitating reagent with a quantity of the unseparated reaction products of precipitation.

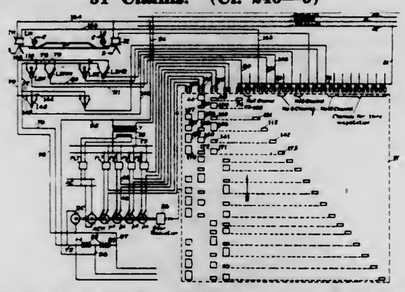
19,046

TRAIN DISPATCHING SYSTEM FOR RAILROADS

William D. Hailes, Brighton, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Original No. 1,824,135, dated September 22, 1931, Serial No. 401,729, October 23, 1929. Application for reissue July 13, 1932. Serial No. 622,364

31 Claims. (Cl. 246—3)



1. In a train dispatching system of the synchronous selector type, the combinations with a selector circuit and a message circuit, means at a dispatcher's office for applying a plurality of distinctive currents to said selector circuit in distinctive order, one relay for each distinctive current at a distant way station responsive only to such distinctive current, contacts at said way station in said message circuit closed in accordance with the order in which said relays assume their energized positions, contacts in said message circuit at said dispatcher's office closed when said first mentioned contacts are closed, and means for transmitting a message current over said message circuit.

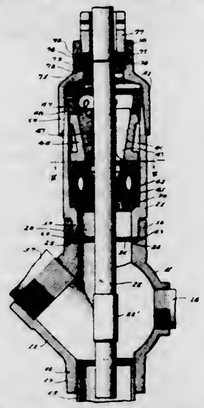
19,047

CASING HEAD WITH BLOW-OUT PREVENTER

Frank J. Hinderliter, Tulsa, Okla.

Original No. 1,918,810. dated July 18, 1933, Serial No. 601,950, March 30, 1932. Application for reissue October 27, 1933. Serial No. 695,538

34 Claims. (Cl. 166—14)



1. In a casing head, a vertically disposed extension thereon for surrounding a pipe passing therethrough, supporting means in said extension, a packing assembly on said supporting means, said packing assembly comprising an annular resilient packing element disposed for engagement with the pipe and including a depending skirt portion on its inner edge, and means for urging downwardly on said packing assembly to depress the same and form a high pressure seal between the pipe and said extension.

19,048

DETECTING, INDICATING, AND RECORDING THE PRESENCE OF INFLAMMABLE VAPORS OR GASES

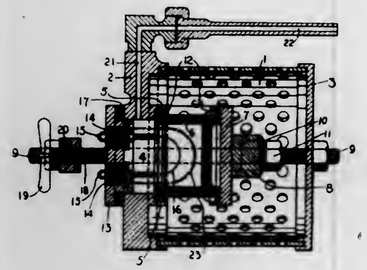
Henry Thomas Ringrose, West Park, Leeds, England

Original No. 1,645,404, dated October 11, 1927, Serial No. 181,414, April 6, 1927, and in Great Britain September 28, 1925. Application for reissue January 27, 1933. Serial No. 653,908

17 Claims. (Cl. 23—255)

2. In an apparatus for detecting the presence of combustible gas, the combination of a substantially closed vessel affording a substantially continuous admission of gas thereto and being capable of maintaining for an appreciable period of time sudden changes in gaseous pressure created therein, means in said vessel for causing said combustible gas entering the same to be gradualy burned therein, said vessel being constructed and arranged to condense the water vapor produced by such combustion, means con-

nected with said vessel and arranged for actuation by changes in the gaseous pressure created in the vessel by said combustion of gas and condensation of water vapor therein, and an indicating means connected to said last named means for actuation thereby.



13. That improvement in methods of detecting the presence of marsh gas or other combustible gases in the atmosphere, which consists in exposing to the atmosphere a substantially closed vessel, passing said atmosphere into said vessel under restricted conditions and diffusing same through the vessel, as a substantially continuous operation, burning combustible gaseous constituents thereof in said vessel as they diffuse through the interior of said vessel, condensing the water vapor produced in said vessel by such combustion, while preventing any substantial absorption of the gases in said vessel, and utilizing the changes in gaseous pressure created in said vessel by said condensation to operate a pressure responsive apparatus.

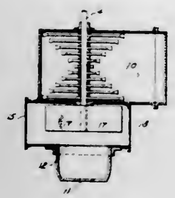
19,049

PULVERIZING PROCESS AND APPARATUS

Walter B. Pedelty, Mason City, Iowa

Original No. 1,783,975, dated December 9, 1930, Serial No. 343,078, February 27, 1929. Application for reissue July 18, 1931. Serial No. 551,782

5 Claims. (Cl. 83—11)



1. The process of pulverizing and feeding fuel consisting in generating a vortex in unobstructed space, feeding air and entrained fragments of fuel into such vortex at one side thereof, and subjecting the vortex at the opposite side to pulsating agitation tending to develop cross currents and counter-currents.

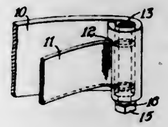
19,050

BUMPER END CONSTRUCTION

Harry R. McMahon, Coraopolis, Pa., assignor to Standard Steel Spring Company, a corporation of Pennsylvania

Original No. 1,793,948, dated February 24, 1931, Serial No. 468,615, July 17, 1930. Application for reissue May 29, 1931. Serial No. 541,087

3 Claims. (Cl. 293—55)



1. In an automotive bumper construction adapted to resist and yield under substantially horizontal impacts, a front bar and a rear bar, the rear bar being narrower than the front bar and substantially centrally disposed with reference to said front bar, each of said bars having each of its ends bent around substantially into contact with the bar to form closed cylindrical terminals, the terminals of the front bar being of a size to receive the terminals of the rear bar therewithin and the terminals of the front bar having their inner edges, which are contiguous to the rear surface of the bar, of substantially inverted L-shape to provide for each terminal a vertical slot extending for a major portion of the height of the terminal and a unitary upper shoulder, the rear bar extending outwardly through said vertical slot and limited as to vertical movement by abutment of the upper edge of such bar wtih the under edge of said unitary shoulder, the rear bar being limited in pivotal movement by the rear surface of the front bar and the vertical wall of said vertical slot, and means for pivotally maintaining said front and rear bar terminals in operative position as aforesaid in nested relationship.

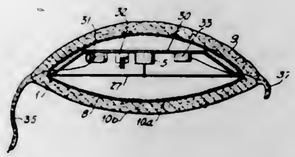
19,051

ART OF SOUND REPRODUCTION

Alexander McLean Nicolson, New York, N. Y., assignor to Communication Patents, Inc., New York, N. Y., a corporation of Delaware

Original No. 1,851,208, dated March 29, 1932, Serial No. 199,895, June 20, 1927. Application for reissue September 9, 1932. Serial No. 632,386

19 Claims. (Cl. 250—14)



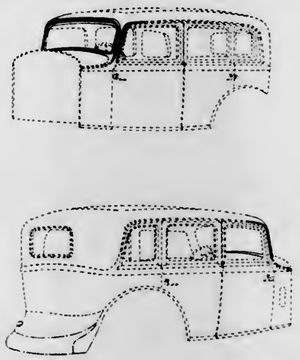
1. Acoustic apparatus comprising a loud speaker adapted to convert electrical oscillations into sound waves corresponding thereto, a protecting framework surrounding said loud speaker and a yielding and flexible covering having minimum acoustic damping characteristics mounted upon said framework.

19,052

DESIGN FOR AN AUTOMOBILE BODY

Amos E. Northup, Pleasant Ridge, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware

Original No. 89,448, March 14, 1933, Serial No. 42,895, February 17, 1932, for 3½ years. Application for reissue March 16, 1933, Serial No. 47,480. Term of patent 14 years



The ornamental design for an automobile body substantially as shown and described.

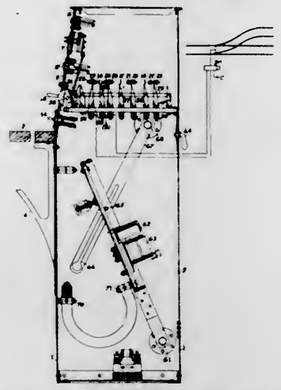
19,053

TRAIN DISPATCHING SYSTEM FOR RAILROADS

Sedgwick N. Wight, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Original No. 1,759,383, dated May 20, 1930, Serial No. 257,643, February 28, 1928. Application for reissue May 14, 1932. Serial No. 611,429

15 Claims. (Cl. 246—122)



1. A dispatching machine for dispatching by signal indications visible to the engineer the movement of trains and indicating train movements to the dispatcher comprising, a control board, a plurality of levers on said board, one for each track switch, an indicator for each lever indicating the passage of a train by the track switch controlled by the corresponding lever, and indicating means between two adjacent levers for indicating the direction of train movement between the track switches controlled by such adjacent levers.

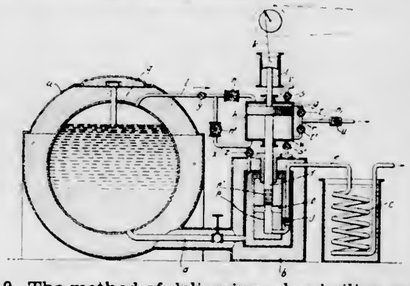
19,054

METHOD AND DEVICE FOR PRODUCING COMPRESSED GAS FROM LIQUEFIED GAS

Christian Wilhelm Paul Heylandt, Berlin-Britz, Germany, assignor to Fluga Aktiengesellschaft, St. Moritz, Switzerland, a corporation of Switzerland

Original No. 1,812,954, dated July 7, 1931, Serial No. 418,345, January 3, 1930, and in Germany January 5, 1929. Application for reissue March 28, 1933. Serial No. 663,169

15 Claims. (Cl. 62—1)



9. The method of delivering a low boiling point gas, which comprises charging a transport container with a body of gas in the liquid phase at a relatively low pressure, withdrawing portions of said charge and delivering the same unimpededly to a transportable pump, mechanically actuating said pump to force a discharge of all of said withdrawn portions against a substantially higher pressure, and excluding substantially completely the entry of heat from said portions until discharged at said higher pressure.

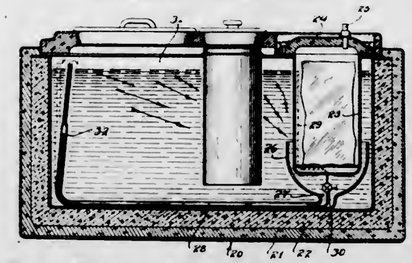
19,055

REFRIGERATING SYSTEM

Lloyd G. Copeman, Flint, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a corporation of Michigan

Original No. 1,840,619, dated January 12, 1932, Serial No. 525,786, March 27, 1931. Application for reissue August 2, 1933. Serial No. 683,396

22 Claims. (Cl. 62—91.5)



16. A refrigerating system, comprising a container for receiving a body of liquid to be cooled, a second container for receiving a body of solid CO_2, the lower portion of said second container and body of solid CO_2 being directly positioned in said body of liquid when in operation, means for conducting evaporated CO_2 gases from the bottom portion of said container into the body of liquid being cooled whereby the gases will flow downwardly in wiping the inside of the CO_2 container and a portion of the body of liquid will wipe the outside of the container and move in the same downward direction, and relief means set to discharge to the atmosphere any surplus CO_2 accumulating above a predetermined pressure.

PLANT PATENTS

GRANTED JANUARY 16, 1934

85
APPLE TREE
William Uecker, Cashmere, Wash., assignor to Stark Bro's Nurseries & Orchards Company, Louisiana, Mo.
Application May 9, 1932. Serial No. 610,183
1 Claim. (Cl. 47—62)

A new and distinct variety of apple tree characterized particularly by the early coloring of its fruit, as described, said fruit having a deep blazing all-over red color, as shown.

DESIGNS

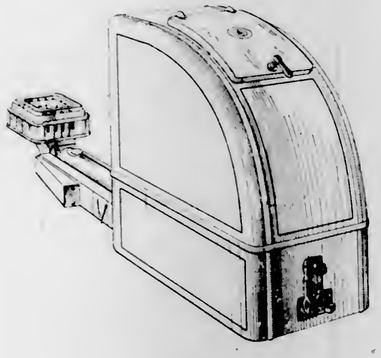
JANUARY 16, 1934

91,344
DESIGN FOR A KEY RING OR SIMILAR ARTICLE
Lawrence E. Baer, Attleboro, Mass., assignor to The Baer & Wilde Company, Attleboro, Mass.
Application June 20, 1933. Serial No. 48,475
Term of patent 14 years



The ornamental design for a key ring or similar article as shown and described.

91,345
DESIGN FOR A COAL BURNING STOKER
Thomas H. Banfield, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application September 11, 1933. Serial No. 49,233
Term of patent 14 years



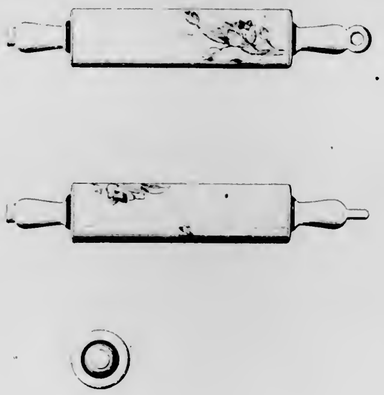
The ornamental design for a coal burning stoker, as shown and described.

91,346
DESIGN FOR A RUG
Lucien Biva, Brooklyn, N. Y., assignor to E. F. Timme & Son, New York, N. Y., a firm composed of Otto Timme, Albert A. Levy, and William E. Roschen
Application December 1, 1933. Serial No. 49,905
Term of patent 3½ years



The ornamental design for a rug, as shown.

91,347
DESIGN FOR A ROLLING PIN CONTAINER
Robert Esterly Boyce, Chester, W. Va.
Application November 4, 1933. Serial No. 49,652
Term of patent 3½ years



The ornamental design for a rolling pin container as shown.

91,348
DESIGN FOR A SHOE
Charles H. Caldwell, Brockton, Mass., assignor to Geo. E. Keith Company, Campello, Mass., a corporation of Massachusetts
Application November 16, 1933. Serial No. 49,758
Term of patent 3½ years



The ornamental design for a shoe, as shown and described.

91,349
DESIGN FOR A SHOE
Charles H. Caldwell, Brockton, Mass., assignor to Geo. E. Keith Company, Campello, Mass., a corporation of Massachusetts
Application November 16, 1933. Serial No. 49,757
Term of patent 7 years



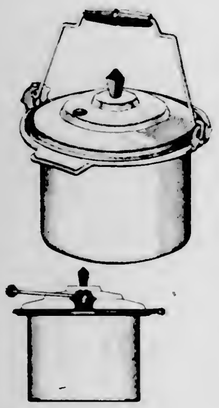
The ornamental design for a shoe, as shown and described.

91,350
DESIGN FOR A TEAKETTLE
William T. Christman, Mount Lebanon, Pa., assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa., a corporation of Pennsylvania
Application November 14, 1933. Serial No. 49,715
Term of patent 14 years



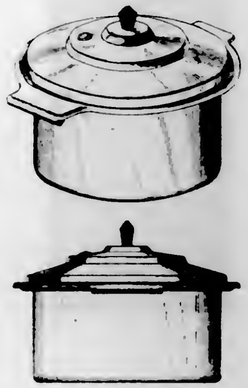
The ornamental design for a teakettle substantially as shown.

91,351
DESIGN FOR A COMBINED COOKING KETTLE AND COVER THEREFOR
William T. Christman, Mount Lebanon, Pa., assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa., a corporation of Pennsylvania
Application November 14, 1933. Serial No. 49,718
Term of patent 14 years



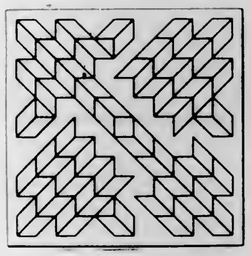
The ornamental design for a combined cooking kettle and cover therefor, as shown and described.

91,352
DESIGN FOR A COMBINED COOKING PAN AND COVER THEREFOR
William T. Christman, Mount Lebanon, Pa., assignor to Federal Enameling & Stamping Company, McKees Rocks, Pa., a corporation of Pennsylvania
Application November 14, 1933. Serial No. 49,717
Term of patent 14 years



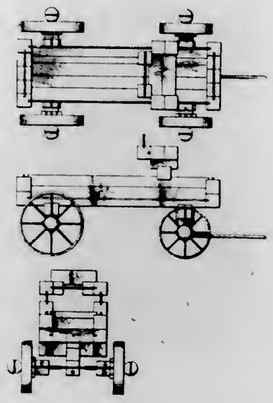
The ornamental design for a combined cooking pan and cover therefor, substantially as shown.

91,353
DESIGN FOR A GAME BOARD
Elmer R. Frase, Chicago, Ill.
Application May 31, 1932. Serial No. 43,938
Term of patent 3½ years



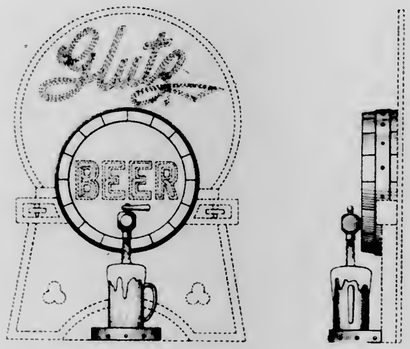
The ornamental design for a game board substantially as shown and described.

91,354
DESIGN FOR A TOY VEHICLE
Walter A. Gruenberg, Royal Oak, Mich., assignor to Bilz-Em Toys, Inc., Detroit, Mich., a corporation of Michigan
Application May 13, 1933. Serial No. 48,110
Term of patent 14 years



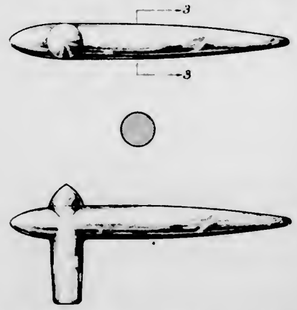
The ornamental design for a toy vehicle as shown.

91,355
DESIGN FOR A SIGN
Herbert G. Hammar, Chicago, Ill., assignor to Federal Electric Company, Chicago, Ill., a corporation of New York
Application November 15, 1933. Serial No. 49,733
Term of patent 14 years



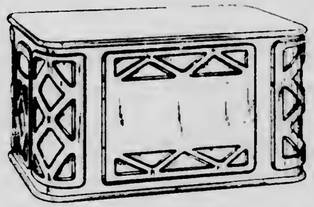
The ornamental design for a sign as shown.

91,356
DESIGN FOR AN OUTSIDE DOOR HANDLE OR SIMILAR ARTICLE FOR AN AUTOMOTIVE VEHICLE
Thomas L. Hibbard, Bloomfield Hills, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application November 23, 1933. Serial No. 49,830
Term of patent 7 years



The ornamental design for an outside door handle or similar article for an automotive vehicle substantially as shown.

91,357
DESIGN FOR A BOTTLE SHIPPING CASE
Herman L. Kraeft, Cleveland, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application May 24, 1933. Serial No. 48,205
Term of patent 7 years



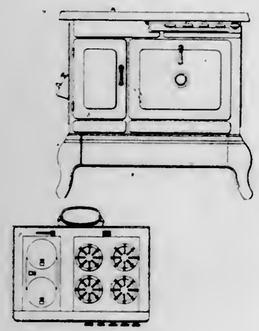
The ornamental design for a bottle shipping case, substantially as shown and described.

91,358
DESIGN FOR A FINGER RING OR SIMILAR ARTICLE
Max Kronstadt, Brooklyn, N. Y.
Application February 23, 1933. Serial No. 47,297
Term of patent 7 years



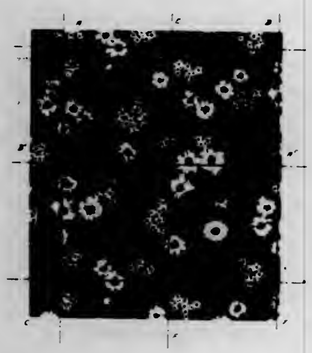
The ornamental design for a finger ring or similar article, substantially as shown.

91,359
DESIGN FOR A COMBINATION COAL AND GAS RANGE
Henry Lange, Quincy, Ill., assignor to The Quincy Stove Manufacturing Company, Quincy, Ill., a corporation of Illinois
Application February 20, 1932. Serial No. 42,951
Term of patent 14 years



The ornamental design for a combination coal and gas range as shown and described.

91,360
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Paul Lesser, Brooklyn, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 11, 1933. Serial No. 50,021
Term of patent 3½ years



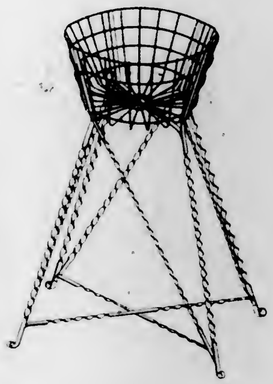
The ornamental design for a textile fabric or similar article as shown and described.

91,361
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
John B. Little, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 12, 1933. Serial No. 50,043
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,362
DESIGN FOR A LAWN VASE
William F. Mahoney, Indianapolis, Ind., assignor to Indianapolis Reed Company, Incorporated, Indianapolis, Ind.
Application February 13, 1933. Serial No. 47,203
Term of patent 7 years



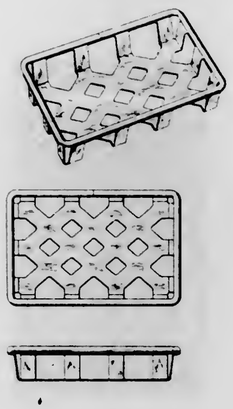
The ornamental design for a lawn vase as shown.

91,363
DESIGN FOR A BOTTLE
Clement S. McPhee, Cranston, R. I., assignor to Everett & Barron Company, Providence, R. I.
Application August 5, 1933. Serial No. 48,932
Term of patent 7 years



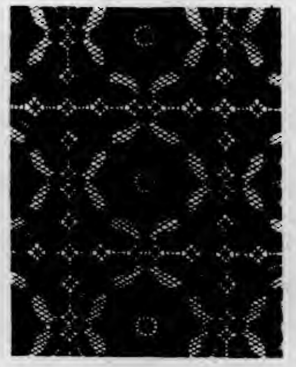
The ornamental design for a bottle, as shown.

91,364
DESIGN FOR A SOAP DISH
Charles A. Mosgrove, Waterbury, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application April 11, 1933. Serial No. 47,755
Term of patent 7 years



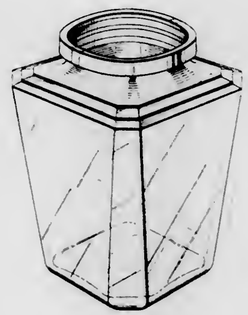
The ornamental design for a soap dish substantially as shown.

91,365
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application December 9, 1933. Serial No. 49,995
Term of patent 7 years



The ornamental design for lace, substantially as shown.

91,366
DESIGN FOR A JAR OR SIMILAR ARTICLE
Theodore J. Piazzoli, Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a corporation of Delaware
Application November 16, 1933. Serial No. 49,762
Term of patent 14 years



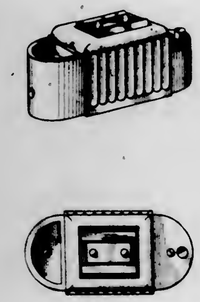
The ornamental design for a jar or similar article, substantially as shown.

91,367
DESIGN FOR A BUTTON
Samuel Posner, Jackson Heights, N. Y.
Application June 15, 1933. Serial No. 48,417
Term of patent 3½ years



The ornamental design for a button, as shown.

91,368
DESIGN FOR A RAZOR BLADE SHARPENER
Willis O. Prouty, Hermosa Beach, Calif.
Application November 6, 1933. Serial No. 49,659
Term of patent 14 years



The ornamental design for a razor blade sharpener substantially as shown.

91,369
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Paul Reiman, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application December 16, 1933. Serial No. 50,089
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,370
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Paul Reiman, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application December 16, 1933. Serial No. 50,090
Term of patent 3½ years



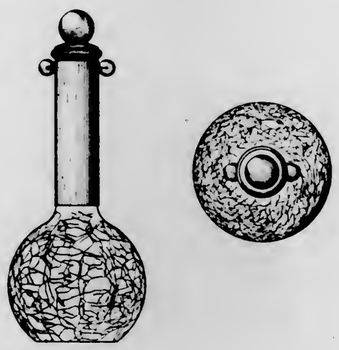
The ornamental design for a textile fabric or similar article as shown and described.

91,371
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Paul Reiman, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application December 16, 1933. Serial No. 50,091
Term of patent 3½ years



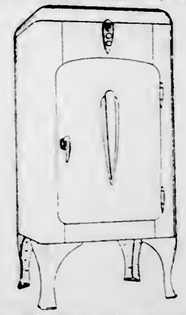
The ornamental design for a textile fabric or similar article as shown and described.

91,372
DESIGN FOR A BOTTLE OR SIMILAR ARTICLE
Joseph S. Stein, Highland Park, Ill., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application May 1, 1933. Serial No. 47,953
Term of patent 7 years



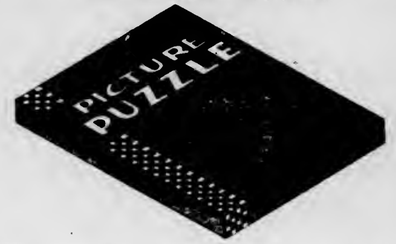
The ornamental design for a bottle or a similar article, as shown.

91,373
DESIGN FOR A CABINET
Russell T. Smith, Greenville, Mich.
Application May 20, 1933. Serial No. 48,167
Term of patent 7 years



The ornamental design for a cabinet as shown.

91,374
DESIGN FOR A COVER FOR A BOX, CARTON, OR THE LIKE
Louis Tichnor, Newton, Mass., assignor to Tichnor Brothers, Inc., Cambridge, Mass., a corporation of Massachusetts
Application April 1, 1933. Serial No. 47,670
Term of patent 3½ years



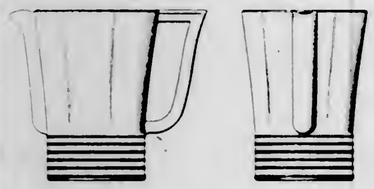
The ornamental design for a cover for a box, carton, or the like as shown.

91,375
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
August Von Eisenbarth, Bronxville, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,962
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

91,376
DESIGN FOR A PITCHER OR ARTICLE OF ANALOGOUS NATURE
Walter von Nessen, New York, N. Y., assignor to Ilfcolite Corporation, a corporation of New York
Application December 2, 1933. Serial No. 49,924
Term of patent 7 years



The ornamental design for a pitcher or article of analogous nature substantially as shown.

91,377
DESIGN FOR A PACKAGE OR SIMILAR ARTICLE
Charles Weiner, Chicago, Ill., assignor to Chicago Printed String Co., Chicago, Ill., a corporation of Illinois
Application February 27, 1933. Serial No. 47,338
Term of patent 7 years



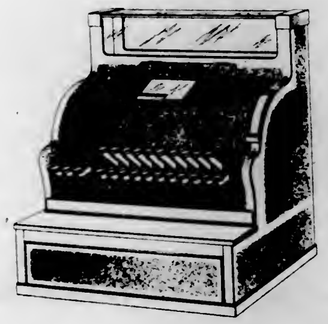
The ornamental design for a package or a similar article, as shown.

91,378
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 12, 1933. Serial No. 50,041
Term of patent 3½ years

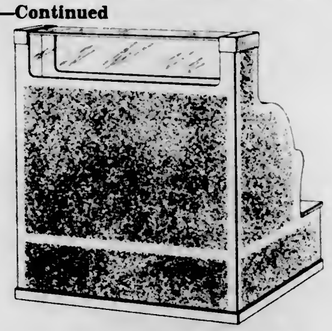


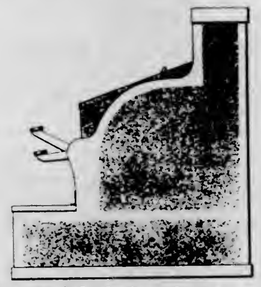
The ornamental design for a textile fabric or similar article as shown.

91,379
DESIGN FOR A CASH REGISTER CABINET
Harry J. Williams, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application April 21, 1933. Serial No. 47,847
Term of patent 14 years



91,379—Continued





The ornamental design for a cash register cabinet, as shown and described.

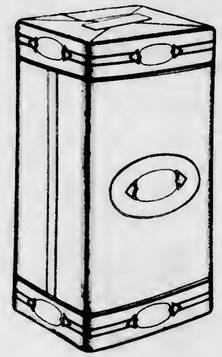
91,380
DESIGN FOR A KETTLE OR SIMILAR ARTICLE
Philip E. Willman, Chicago, Ill.
Original application March 24, 1933, Serial No. 47,565, now Design No. 90,608, dated August 29, 1933. Divided and this application June 9, 1933. Serial No. 48,358
Term of patent 7 years





The ornamental design for a kettle or similar article, substantially as shown.

91,381
DESIGN FOR A CARTON OR SIMILAR ARTICLE
Lester R. Zimmerman, Chicago, Ill., assignor to The John B. Canepa Company, Chicago, Ill., a corporation of Illinois
Application December 30, 1932. Serial No. 46,661
Term of patent 7 years



The ornamental design for a carton or similar article as shown.

91,382
DESIGN FOR A DRESS
Johnnye Lee Caston, Chicago, Ill., assignor to The Sterling Company, Chicago, Ill., a corporation of West Virginia
Application November 23, 1933. Serial No. 49,829
Term of patent 3½ years

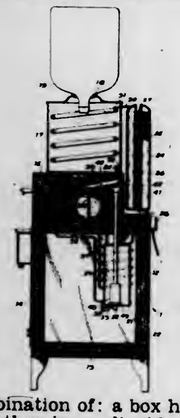


The ornamental design for the dress as shown and described.

PATENTS

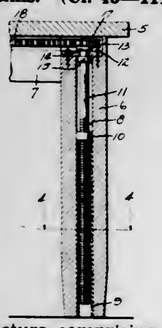
GRANTED JANUARY 16, 1934

1,943,279
COMBINATION REFRIGERATOR AND BEVERAGE DISPENSER
Max Alex, Alhambra, Calif.
Application May 31, 1933. Serial No. 673,592
10 Claims. (Cl. 62—141)



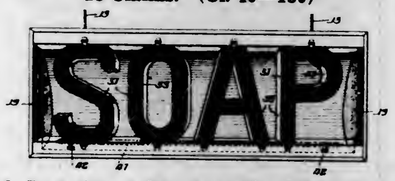
1. The combination of: a box having a cooling compartment therein; a liquid-receiving reservoir mounted above said cooling compartment; a cold-liquid storage reservoir mounted in said compartment; means for delivering liquid from said receiving reservoir to said storage reservoir; an outlet connection in said storage reservoir; an absorber generator containing a dry absorbent and a fluid refrigerant; means for periodically heating said absorbent to expel said refrigerant; conduit means communicating with said absorber generator and arranged in heat-transferring relation with the liquid in said receiving chamber; and a condensate container communicating with said last mentioned conduit, said condensate container having a part thereof exposed in said compartment.

1,943,280
TABLE
Harold A. Arnold, Knoxville, Tenn.
Application June 10, 1932. Serial No. 616,396
6 Claims. (Cl. 45—111)



3. A table structure comprising the combination with a set of legs having central bores of polygonal cross section and recesses opening horizontally inwardly adjacent their upper ends, of screw anchorage means applied to said legs, screws rotatable in and axially confined by said means, extension members reciprocable in said legs and provided with nuts to which said screws are threaded, rotors within the recesses of said legs and connected with the screws, and endless actuating connecting means extending about the several rotors for their simultaneous operation.

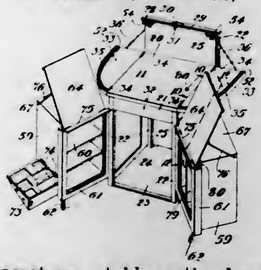
1,943,281
SIGN
Robert E. Barclay and Nels Berggren, Chicago, Ill., assignors to Federal Electric Company, Chicago, Ill., a corporation of New York
Application April 11, 1932. Serial No. 604,396
18 Claims. (Cl. 40—130)



16. In a sign, a frame, a silhouette letter carried by the frame, and a concealed lamp mounted on the frame and positioned to directly illuminate the sides of the letter with stroboscopic light, said sides being treated to glow when illuminated and having forwardly facing surfaces of contrasting visual appearance.

18. A sign comprising a block character of substantial depth having light reflecting side edges and forwardly facing surfaces of contrasting visual appearance, and means for illuminating the light reflecting edges without illuminating the forwardly facing surfaces.

1,943,282
SECRETARY
Peter Bellavia, Garwood, N. J.
Application May 20, 1930. Serial No. 453,922
9 Claims. (Cl. 45—92)



9. In a secretary, a table section having a back wall extending from one edge thereof, a pair of outwardly swingable wings, each mounted on the respective marginal edges of said section, forming an enclosure with an open top on said table section, a roll member slidable intermediate the wings toward the back wall and covering the top of said enclosure, counter-weighting means in connection with the wings for counterbalancing

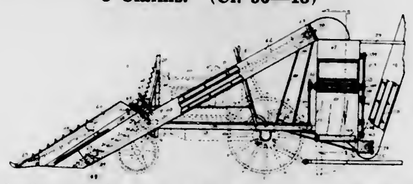
the same upon outwardly swinging said wings, and releasable latching means between the back wall and each wing permitting outward swinging of the wings upon movement of the roll member.

1,943,283
TROLLING SPINNER
Bertie D. Bell, Renton, Wash.
Application October 13, 1931. Serial No. 568,604
2 Claims. (Cl. 43—45)



1. The combination with a non-rotary shank, of a spinner having front and rear perforated bearing lugs on the shank, said spinner having a flat substantially triangular central portion, the plane of which is parallel with the shank, oppositely turned diverging edges forming grooves at the sides of said flat portion, oppositely turned, spaced, tail-portions forming outwardly flaring extensions of the grooves, and said tail portions located in the rear of the rear lug.

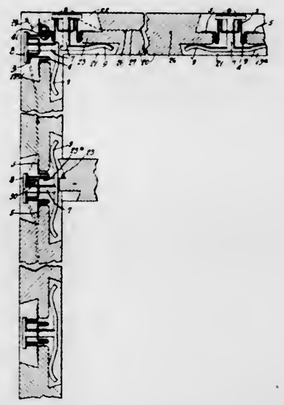
1,943,284
CORN PICKER AND MEANS FOR ATTACHING THE SAME TO A TRACTOR
George R. Binau, Allerton, Iowa
Application January 19, 1931, Serial No. 509,607
Renewed May 12, 1933
8 Claims. (Cl. 56—18)



1. In combination with an automotive vehicle such as a tractor, a frame embracing said vehicle and pivoted at its rear end portion to the rear end portion of said vehicle, an arch designed to be secured to the front portion of said vehicle, a coil spring having one end secured to said arch and its other end secured to the front end portion of said frame for yieldingly supporting the front end portion of said frame, a manually adjustable means operatively connected to said arch and said frame for limiting the downward movement of the forward end of said frame, a pair of rotatably mounted snapping rolls, rigid members for contacting and guiding stalks of corn to said snapping rolls, a husking mechanism supported on said frame, an elevator for conveying snapped ears from said snapping rolls to said husking mechanism, and a means for operatively connecting said snapping rolls, said elevator and said husking mechanism with the motor of said vehicle.

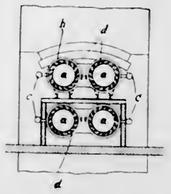
1,943,285
WALL CONSTRUCTION
Frank M. Boyland, New York, N. Y.
Application October 3, 1932. Serial No. 635,900
18 Claims. (Cl. 72—46)

1. In a panel board wall construction, a stud formed with a central body portion having longitudinal openings at suitable intervals therein and longitudinal flanges extending laterally, parallel with the plane of the wall, and with pairs of front and rear flanges between said body portion and said lateral flanges; together with a se-



ries of tension devices extending through said body openings and detachably engaging the studs and clamping the border portions of the panel boards against the faces of said lateral flanges.

1,943,286
BURNER FOR FURNACES
Eugen Burg, Essen, Germany
Application February 7, 1929, Serial No. 338,236, and in Germany March 16, 1928
2 Claims. (Cl. 110—28)



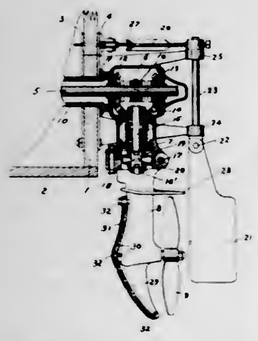
1. In a furnace, a unit for the combustion of pulverized fuel comprising a group of four coacting burners arranged in relatively superimposed pairs, having their longitudinal axes substantially horizontal and parallel and having their outlets in the same vertical plane, a pair of said burners being in the same upper level and in spaced apart relation and the other pair in the same lower level also in spaced apart relation, the burners being arranged so that a vertical plane passing between the members of one pair passes between the members of the other pair, nozzles in connection with the burners for supplying fuel to said burners, a casing for each pair of burners on the same level, and oppositely disposed inlet conduits arranged in the same horizontal plane communicating with each casing for feeding a supply of air therein, said burners having passages in their walls inclined respectively to the radii of the nozzles at the outlets of the passages, whereby air forced into each burner from the opposite conduits is whirled through the passages in a relatively counter-whirling direction within the burners.

1,943,287
BRAKING SYSTEM FOR LAND VEHICLE TRAINS
Lorn Campbell, Jr., Cleveland, Ohio
Application August 12, 1929. Serial No. 385,199
1 Claim. (Cl. 188—3)



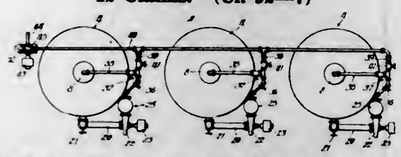
In a land vehicle train including a tractor and a trailer, a braking system comprising brakes and brake drums for wheels of the tractor and trailer, and means including levers on each vehicle for simultaneously actuating the brakes of such vehicle, air compressor means including a pressure storage tank on the tractor, housings on each vehicle having flexible diaphragms, a valve controlled air line connecting the compressor means with each housing, the diaphragm on each vehicle being connected to the brake actuating means on such vehicle, spring means on each vehicle operatively associated with the brake actuating means of such vehicle to apply the brakes whenever the air pressure in the air line falls below a predetermined pressure, and mechanically operable means having a lost motion connection with the brake actuating means on the tractor to release the brakes thereon after they have been actuated into braking position coincident with a drop in air pressure.

1,943,288
OUTBOARD PROPELLER AND RUDDER MOUNTING
David G. Chandler and Robert T. Svendsen, Minneapolis, Minn.
Application August 20, 1931. Serial No. 558,302
11 Claims. (Cl. 115—41)



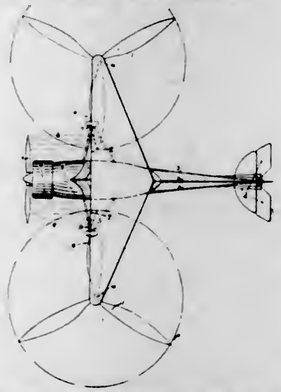
1. A boat propulsion and steering mechanism comprising a normally depending housing having a propeller at its lower end and mounted for swinging movement laterally and upwardly to regulate the propeller depth in the water, said housing having a breakable joint to permit rearward and upward movement of the propeller and a rearwardly adjustable rudder carried by the boat independently of the propeller mounting whereby predetermined steering angles of the rudder may be maintained irrespective of said depth adjusted positions of the propeller.

1,943,289
DIGESTER SYSTEM
Andreas Christensen, Rhinelander, Wis., assignor to Fibre Making Processes, Inc., Chicago, Ill., a corporation of Illinois
Application December 10, 1932
Serial No. 646,660
12 Claims. (Cl. 92—7)



1. In combination in a digester system, a plurality of digesters for containing digesting liquor and material to be digested, independent liquor circulating systems associated with the respective digesters and each including an indirect heater and pump means for circulating liquor from the digester to and through the heater and back to the digester, and means supplemental to the circulating systems for selectively delivering liquor from one of the digesters to the other digesters.

1,943,290
AIRCRAFT
Frank F. Clarke, New York, N. Y.
Application July 9, 1932. Serial No. 621,611
1 Claim. (Cl. 244—15)

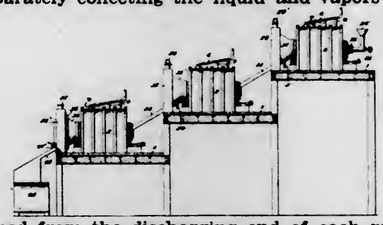


In an airplane, a fuselage, a wing extending transversely of the fuselage, a propeller carried by the fuselage and power means for rotating the same, a relatively short shaft carried by each wing near the end thereof and depending from the wing said shaft being mounted angularly with respect to the longitudinal axis of the wing, a freely rotatable rotor comprising a plurality of vanes carried by each shaft, the vanes being of such length as to extend within the airstream from the propeller rearwardly thereof and to extend substantially beyond the end of the wing, in each case, during rotation.

1,943,291
PROCESS FOR THE LOW TEMPERATURE DISTILLATION OF COAL
Arthur V. Abbott, Richmond, Va.
Application February 4, 1931. Serial No. 513,419
2 Claims. (Cl. 202—22)

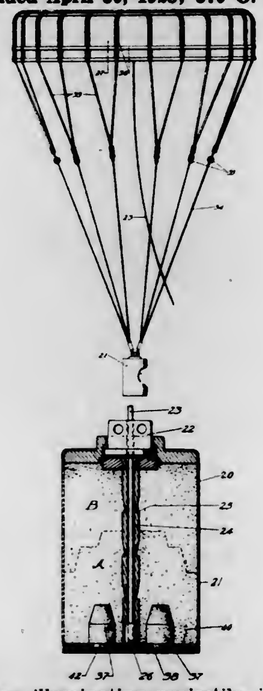
1. The process for the low distillation of bituminous coal, consisting in passing the coal through

a distillation chamber in one retort at a comparatively low temperature, then passing the coal through a distillation chamber of a second retort subjected to a higher temperature, thence passing the coal through the distillation chamber of a third retort at a still higher temperature, separately collecting the liquid and vapors pro-



duced from the discharging end of each retort, then quenching by water the hot coke produced within the discharge end of said third retort, then passing the gases produced commingled with the vapors emanating from the quenching operation to a container, and finally separating the coke and liquid by-products and conveying them to their respective containers.

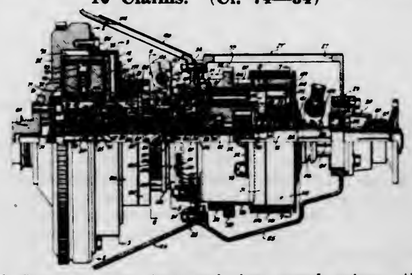
1,943,292
ILLUMINATING PROJECTILE
Herbert S. Babbitt, Baldwin, N. Y., assignor to the Government of the United States, represented by the Secretary of the Navy
Application March 11, 1926. Serial No. 94,092
9 Claims. (Cl. 102—24.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an illuminating projectile, in combination, an assembly adapted to be ejected rearwardly from the projectile body, such assembly comprising a parachute, an illuminating element supported by the parachute, shrouds, and swivelling members connecting the shrouds to the parachute.

9. In an illuminating projectile, in combination, an assembly adapted to be ejected rearwardly from the projectile body, said assembly comprising a parachute, an illuminating member including a container, a plurality of flare compositions within the container, a swivel in the wall of the container, a hollow member within the container about which the compositions are placed, a fusible member within said hollow member, powder pellets embedded in one of the compositions, a filling disk having openings therethrough and supporting the compositions, an igniting powder in the openings contacting with the pellets, and a cover over said disk having openings aligning with those in the disk, means connecting the fusible member with the parachute, and means attaching the container to the parachute.

1,943,293
AUTOMATIC CHANGE SPEED TRANSMISSION
Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application July 24, 1931. Serial No. 552,860
10 Claims. (Cl. 74—34)

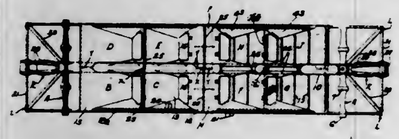


1. In a power transmission mechanism, the combination with the engine shaft and flywheel, of a drum mounted on said flywheel, a pair of drive shafts, a driven shaft, a planetary gear unit between said drive shafts and driven shaft including drive gears, a driven gear, a planetary gear carrier and planet gears on said carrier, clutch mechanism for connecting the engine shaft with one of said drive shafts, a drum on the flywheel, a coiled spring clutch member for engaging said drum, speed responsive means mounted on the other one of said drive shafts for actuating said clutch member, a drum on said driven shaft, a coil spring clutch member connected to said planetary gear carrier, and speed responsive means on said driven shaft operable on a temporary reduction in speed of said engine drive shaft relative to said driven shaft to actuate said last named coiled spring clutch member for direct connection between said engine shaft with said driven shaft through said gearing unit and the parts connected by said spring clutch members.

1,943,294
RAILWAY HOPPER CAR STRUCTURE
Frederic H. Bender, Chicago, Ill., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application December 30, 1931
Serial No. 583,825
23 Claims. (Cl. 105—249)

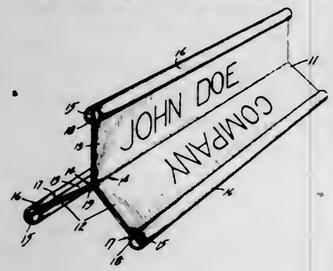
1. In a railway hopper car, a body bolster member, a center sill member, a plurality of hopper

members, and draft sill members, each of said members comprising a separately formed unit of



integral structure and all of said members being welded together to form an integral underframe structure.

1,943,295
ADVERTISING DEVICE
William I. Block, Maywood, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application August 4, 1931. Serial No. 555,048
10 Claims. (Cl. 40—146)



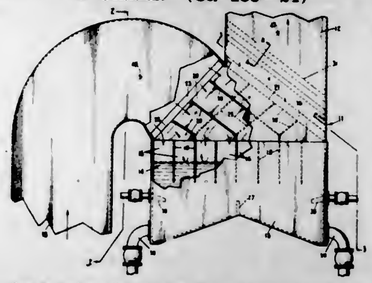
5. An advertising device, comprising three angularly bent sheets joined together back to back to provide three radial legs, two of said legs serving as a support, and the remainder providing advertising surface.

1,943,296
BRAKE CONTROL
Charles A. Brewer, Noroton Heights, and Philip J. Kury, Arverne, N. Y.
Application December 20, 1928. Serial No. 327,402
2 Claims. (Cl. 188—152)



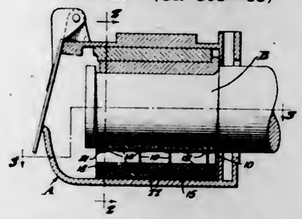
1. In a brake control mechanism, a brake mechanism, a foot lever having a lost motion connection to the brake for operating it, a power device operatively connected to the brake, a snap action control for said power device so that the control is either in one or the other of its extreme positions, and a lost motion connection from the lever to the snap action control so that the control is shifted on initial movement of the lever and is held in that position until the lever moves in the opposite direction.

1,943,297
CINDER OR DUST COLLECTOR
George C. Cook, Millington, N. J.
Application November 8, 1929. Serial No. 405,593
9 Claims. (Cl. 183—24)



1. Apparatus for trapping particles in suspension in a gas current, embodying a tank containing liquid, an inlet duct conveying said current and an outlet duct for the cleansed gas, an interposed separator casing comprising a plurality of adjacent compartments in juxtaposed relation to the said ducts, alternate compartments being in communication with and out of communication with each of said ducts to form alternate passageways all of which open to the said tank, and transverse partitions in said tank adjacent the base of the separator and the lower edges thereof dipping into the liquid of the tank.

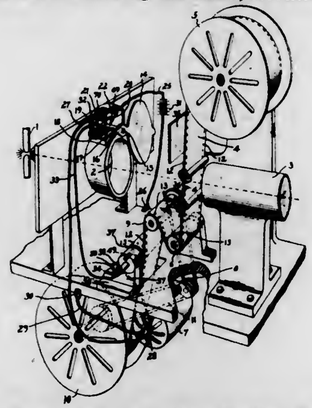
1,943,298
JOURNAL LUBRICATOR
Homer B. Cunningham and James William Tucker, Connellsville, Pa.
Application November 15, 1932
Serial No. 642,796
4 Claims. (Cl. 308—88)



1. A lubricator of the character described comprising a cylindrical flexible core having resilient inserts spaced from each other and circumferentially of the core, a pad carried by the core, a mat held within the core, and anchoring spiders connected interiorly of the core and passed through the mat.

1,943,299
PICTURE PROJECTION MACHINE
Noah Louis Dauplaise, Manchester, Conn., assignor, by mesne assignments, to Dauplaise Safety Equipment Corporation, Springfield, Mass., a corporation of Massachusetts
Application October 18, 1927. Serial No. 226,904
21 Claims. (Cl. 88—17)

1. In a device of the character described, a movable belt like band, means for moving the band, a rotatable circuit controller engaging and rotated by the band, electric circuits one containing the means for moving the band, and the other the circuit controller, said controller having movable contact members that gravitationally close the controller circuit when the controller is not rotating and break said circuit when the controller is rotated through the centrifugal force of the rotating controller to start and stop the means for moving the band, serrations on the



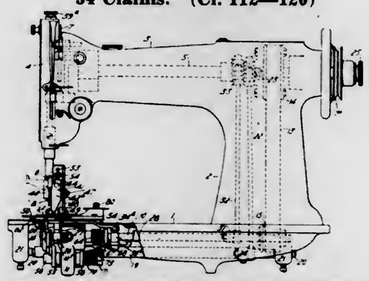
rotatable circuit controller, a pawl lever operated by the band and adapted to be held out of contact with the serrations when the pawl lever is engaged by the band and to drop down by gravity and engage the serrations when the band is broken.

1,943,300
SEAM FOR SEWED ARTICLES AND METHOD OF MAKING SAME
Albert H. De Voe, Westfield, N. J.
Application July 31, 1931. Serial No. 554,289
6 Claims. (Cl. 112—262)



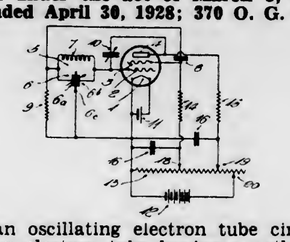
1. A lock stitch seam comprising two threads engaging a fabric at spaced intervals and twisted together a plurality of times between adjacent points of engagement.

1,943,301
SEWING MACHINE
Albert H. De Voe, Westfield, N. J.
Application September 14, 1931
Serial No. 562,753
34 Claims. (Cl. 112—120)



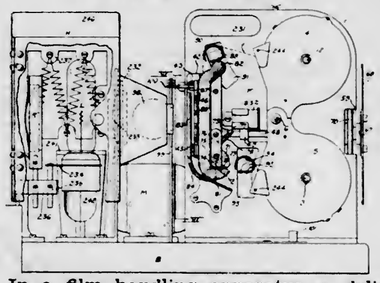
1. In a sewing machine, the combination of stitch forming mechanism; a first feeding mechanism for feeding a fabric relative to said stitch forming mechanism; and a second feeding mechanism spaced from said first feeding means in the path of travel of the fabric and operable simultaneously with the first feed mechanism, for feeding the fabric in a direction transverse to its movement by said first feeding mechanism.

1,943,302
OSCILLATOR SYSTEM
Jennings B. Dow, Alexandria, Va.
Application April 22, 1931. Serial No. 532,056
16 Claims. (Cl. 250—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



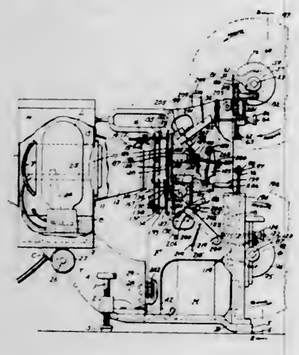
1. In an oscillating electron tube circuit including an electron tube having a cathode element, a control grid element, an anode element and an auxiliary element associated with the electron stream of said tube, means including said auxiliary element and the main source of electric energy for said oscillating electron tube circuit for compensating for changes in the frequency of oscillation arising from variations in the voltage of the said main source of electric energy, through the application of such increments of potential to said auxiliary element as substantially neutralize the tendency to frequency change caused by simultaneous increments in potential applied to said anode element.

1,943,303
PHOTOGRAPHIC APPARATUS
Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application September 19, 1925
Serial No. 57,392
178 Claims. (Cl. 88—17)



1. In a film handling apparatus, a delivery member, a taking up member, an intermittently moving means for feeding a film between said delivery member and said taking up member, means for compensating for the differences in character of movement of said members and said feeding means, operable mechanism for initially positioning said compensating means and the film in operative relation one with the other, and means actuated by the moving film for operating said mechanism.

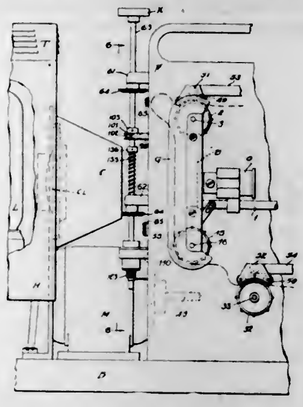
1,943,304
FILM HANDLING APPARATUS
Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application January 29, 1929. Serial No. 335,832
60 Claims. (Cl. 88—17)



1. In a film handling apparatus, a continuously operating driving mechanism, a member for intermittently feeding a film through said apparatus, a member for taking up the film so fed, a first means for operatively connecting and disconnecting said intermittent feeding member and said driving mechanism, a second and separate means for operatively connecting and disconnecting said taking up member and said driving mechanism, and sequential control mechanism, said sequential control mechanism including two control stations, an actuating member movable between said control stations, and devices connecting said actuating member and said intermittent member for first operating said first connecting means upon the first portion of the movement of said actuating member from one of said control stations to the other and for thereafter operating said second connecting means upon a succeeding portion of such movement whereby said intermittent member is operated before said taking up member.

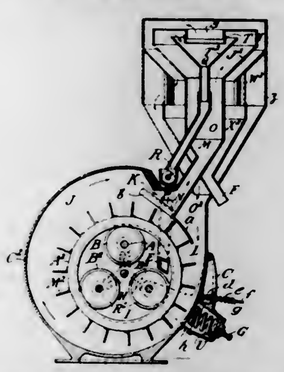
1,943,305
FILM HANDLING APPARATUS
Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application April 19, 1929. Serial No. 356,564
52 Claims. (Cl. 88—18)

1. In a film handling apparatus, a first feeding member, means for continuously operating said first member, a second feeding member, means for intermittently operating said second feeding member, a third feeding member, means for continuously operating said third member, and means for producing slack in the film between said first and second members and between said second and third members, said slack producing means comprising mechanism operatively connected with all of said members and so constructed and arranged as to operate said first member and said second concurrently, said first member being so operated at a number of revolutions per minute substantially twice that at which said second member is so operated, and to maintain said means for operating said second member intermittently without effect thereupon and



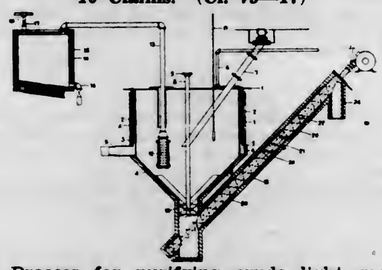
said means for operating said third member continuously without effect thereupon.

1,943,306
PULVERIZER AND SEPARATOR
George Holt Fraser, Brooklyn, N. Y.
Application November 30, 1931
Serial No. 577,918
20 Claims. (Cl. 83—9)



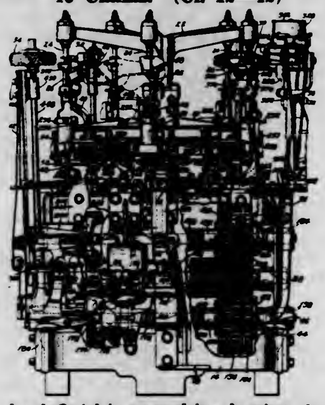
1. In combination, a casing enclosing a crushing chamber, a rotatable die within said chamber having an inner annular crushing face disposed around a substantial horizontal axis, a movable and rotatable roll within and eccentric of said die and having a peripheral crushing face acting toward said face to crush material between said faces, rotary means for rotating one of said parts, supply means for supplying material to be crushed to said faces, a movable bearing movably mounted on said casing and on which said roll is rotatably mounted, an adjustable spring for pressing said roll toward said die with an adjustable crushing pressure, and an additional spring around said adjustable spring and between said casing and said bearing member, without and reactant inwardly toward said casing and inwardly of and reactant outwardly toward said bearing member, for positioning the latter relatively to said casing additionally to said adjustable spring.

1,943,307
PURIFYING LIGHT METALS
Harvey Nicholas Gilbert, Niagara Falls, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, a corporation of Delaware
Application August 24, 1931, Serial No. 558,859
Renewed April 6, 1933
10 Claims. (Cl. 75—17)



1. Process for purifying crude light metals comprising maintaining said light metal liquid in an inert atmosphere and at a temperature at which impurities have solidified, withdrawing light metal from said liquid through a filter and concomitantly collecting and removing sludge from said liquid from a level below filtration.

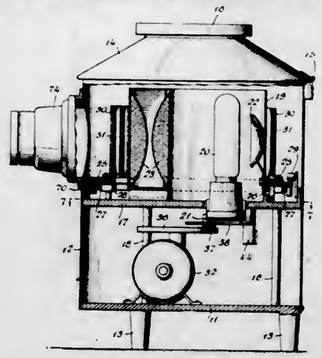
1,943,308
HEEL FINISHING MACHINE
Henry B. Greenough, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application March 21, 1931. Serial No. 524,271
46 Claims. (Cl. 12—42)



1. A heel-finishing machine having, in combination, shoe-supporting means, a heel-finishing tool mounted for free rotation, and means for producing a relative movement between said tool and said shoe-supporting means to cause the tool to roll around the periphery of the heel of the shoe.

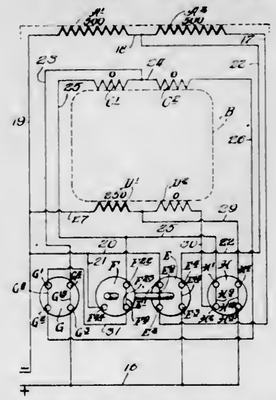
1,943,309
PROJECTION APPARATUS
James Geier, Troy, N. Y.
Application August 15, 1932. Serial No. 628,842
2 Claims. (Cl. 88—27)

1. In a projection apparatus, a revolvable horizontal carrying member with a plurality of receivers receiving projection slides, said horizontal member having a vertical axis of rotation and being provided with a peripheral ring, supporting roller members cooperating with said ring to fix the axis of rotation of the member, said apparatus being provided with a projection position located between a source of illumination and a focusing device, into which position said slides



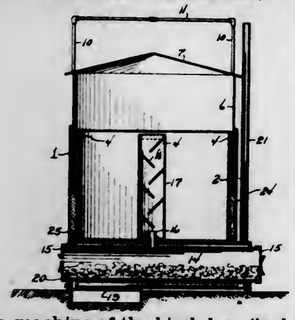
are to be successively placed, means for intermittently rotating said member including a lever and roller arrangement whereby the slides are slowly moved out of and into projection positions, and automatic operating means for stopping the revolving or rotation of said member after all of said slides have passed the projection position.

1,943,310
WIRING SYSTEM FOR ELECTRIC OVENS
Roscoe S. Heise, Wauseon, Ohio; Eyda Heise executrix of said Roscoe S. Heise, deceased
Application June 27, 1928, Serial No. 288,610
Renewed March 6, 1933
8 Claims. (Cl. 219—20)



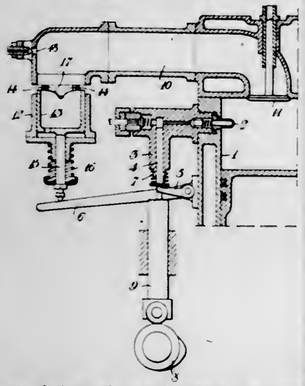
8. In an electrical heating system in combination, three heating units each having two heating elements, one of said units having a capacity of substantially double that of each other unit, a switch for each unit having connections for controlling its corresponding heating elements, the switch for the larger capacity unit being interconnected with the elements of the other units whereby when said larger capacity unit is connected for any heating capacity the circuits of the other units will be modified to limit the total consumption not to exceed a maximum amount less than the total capacity of the several units.

1,943,311
GAS MAKING DEVICE
Charles Rush Hemenway, Oklahoma City, Okla.
Application February 16, 1931. Serial No. 516,165
2 Claims. (Cl. 183—30)



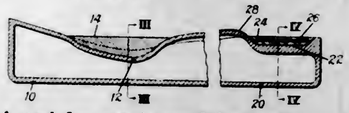
1. In a machine of the kind described, an outer tank, a false bottom disposed in said outer tank above the lower edge thereof, a purifying tank disposed upon the false bottom and having a closed top, a cylinder centrally arranged within the purifying tank and having an open top in communication with said tank, reversely inclined spaced baffle plates arranged within the cylinder and disposed in overlapped relation to each other, said purifying tank having slots arranged diametrically opposite each other therein, and inclined baffles exteriorly on the purifying tank to overhang the slots.

1,943,312
MECHANISM FOR CONTROLLING THE ADMISSION OF AIR TO INTERNAL COMBUSTION OIL ENGINES
Knut Jonas Elias Hesselman, Saltsjo-Storangen, near Stockholm, Sweden
Application November 5, 1929, Serial No. 404,913, and in Sweden November 13, 1928
2 Claims. (Cl. 123—32)



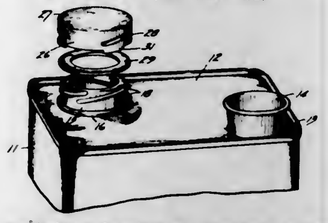
1. In an internal combustion oil engine, in combination, a fuel pump, regulating means for governing the quantity of fuel delivered by the pump for each working stroke of the engine, means providing a channel for supplying air to the engine for combustion and throttle valve means for controlling the flow of air through said channel, said throttle valve means comprising a cylindrical casing having peripherally disposed ports for the admission of the main air supply for the engine and a reciprocable piston valve in said casing movable in response to movement of said regulating means, said ports having edges substantially normal to the direction of movement of said valve and said valve having a cooperating edge of curved contour and including a recess extending longitudinally of the valve, said edges and recess providing for closing of said ports at a rate variable with respect to the rate of closing movement of the valve whereby to provide for a substantially constant ratio between the quantities of air and fuel supplied for each working stroke of the engine in the range of low engine loads.

1,943,313
PRESSING PAD
Patrick James Hogan, Montreal, Quebec, Canada, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application April 13, 1932. Serial No. 604,980
6 Claims. (Cl. 12—38)



1. A pad for use in applying pressure to shoe bottoms having a depression in its operative pressing surface to accommodate a bulge on the bottom of the shoe to be treated, in combination with a cover member arranged to cover said depression and to form, with the remainder of the operative surface of the pad, a flatter operative surface shaped to conform approximately to the bottom of a shoe having a flatter contour than that of the first-mentioned shoe.

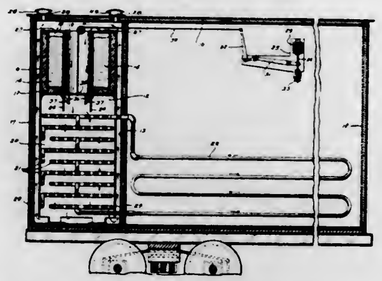
1,943,314
CAPTIVE SCREW CAP FOR CANS
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 8, 1931. Serial No. 535,992
5 Claims. (Cl. 220—44)



1. A container having a pouring spout, and an air-admission nozzle provided with a captive screw cap, comprising a cylindrical body having threads formed in its side walls, the outer edge of said walls being extended at spaced intervals as lugs which are adapted to be bent inwardly, after the cap has been engaged with a container, to provide stops, the said nozzle being provided with threads under which said stops engage and prevent displacement of the cap from said container when it is partially unscrewed therefrom.

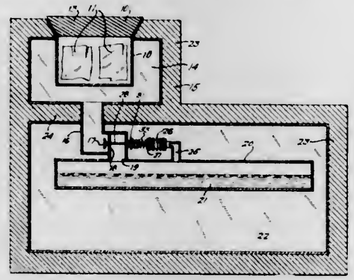
1,943,315
ART AND APPARATUS FOR COOLING
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application February 7, 1929. Serial No. 338,113
17 Claims. (Cl. 62—91.5)

1. In apparatus of the class described, in combination, a refrigerating chamber, an evaporator within said chamber to contain a solidified gas at atmospheric pressure and having a vent for the escape of gas into the chamber and a pipe line for circulating a liquid having a low temperature freezing point through said chamber and the medium to be cooled.



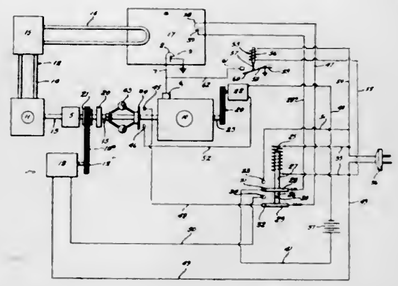
17. In apparatus of the class described, in combination, means forming a space whose temperature is to be regulated, a chamber thermally insulated from said space, containing means situated substantially near the top of said chamber and adapted to hold solid carbon dioxide, a continuous coil located in the lower part of said chamber below said containing means and extending into thermal contact with said space, said coil containing a low temperature heat absorbing fluid, means for controlling the flow of gas from said containing means to said chamber so that sublimation of said carbon dioxide may take place when said connection exists, and thermostatic means adapted to control said last-mentioned means to make said connection when the temperature of said space rises above that preferred.

1,943,316
REFRIGERATION
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application December 6, 1929. Serial No. 412,123
15 Claims. (Cl. 62—91.5)



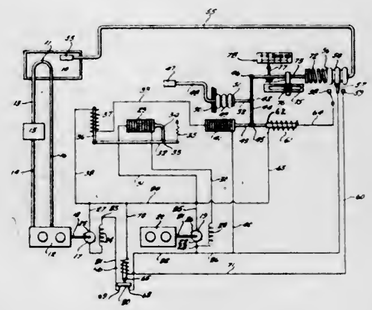
15. In refrigerating apparatus, in combination, means forming a space to be maintained at a certain temperature, containing means within said space for a volatile liquid, means forming a condensing chamber adapted to contain solid carbon dioxide and thermally insulated from said space, a single conduit connecting said containing means with said condensing chamber, and a valve responsive to the pressure in said containing means for controlling the flow of liquid or vapor through said conduit.

1,943,317
REFRIGERATION SYSTEM
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application October 9, 1930. Serial No. 487,435
25 Claims. (Cl. 62—4)



1. In a refrigeration system, in combination, means forming a space whose temperature is to be regulated, a refrigeration unit for said space, motive means for actuating an element of said unit, a second motive means for actuating said element, and means responsive to the application of a source of energy for said second motive means for stopping one of said motive means.

1,943,318
REFRIGERATION SYSTEM AND APPARATUS
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application January 15, 1931. Serial No. 508,836
55 Claims. (Cl. 62—4)



1. In a refrigeration system, in combination, a chamber whose temperature is to be regulated, a refrigeration unit for said chamber, an electric motor for driving an element of said refrigeration unit, motive means adapted to run continuously for substantial periods of time, generator means driven by said motive means for supplying current to said motor, and means responsive to varying needs for refrigeration in said chamber adapted to affect the operative standard of said generator means to change the rate of drive of said refrigerating unit.

1,943,319
MANUFACTURE OF SULPHONATED OILS AND FATS

Richard Huttenlocher, Oberlahnstein-on-the-Rhine, Germany, assignor to firm Farb- & Gerbstoffwerke Carl Flesch Jr., Frankfort-on-the-Main, Germany

No Drawing. Application December 17, 1927, Serial No. 240,935, and in Germany December 23, 1926

8 Claims. (Cl. 87—12)

1. The process of sulphonating fats and oils which contain unsaturated or hydroxyl groups in the carbon chain, or the fatty acids corresponding thereto, which comprises reacting upon a material of the character aforesaid with a material selected from the herein described group consisting of sulphur as such and chlorosulphonic acid in the presence of a material selected from the herein described group consisting of lower fatty acids, their anhydrides and chlorides.

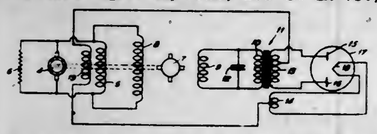
1,943,320
VOLTAGE REGULATOR

Lawrence A. Hyland, Washington, D. C., assignor by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Application January 6, 1932. Serial No. 585,012

6 Claims. (Cl. 171—119)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a regulator system, a direct-current generator having a main field winding, an alternator drivably connected to and rotatable with said generator and having a field winding energized by the latter, the frequency of the alternating-current from said alternator varying directly as the speed of the generator, a rectifier connected to the output of the alternator, said rectifier having a tuned input circuit tuned to reject frequencies below the normal operating frequency of the alternator so that the output of the rectifier increases with the frequency of the alternator, and means comprising a differential field winding in opposed relation with the main field winding of the generator and connected to the output of the rectifier for causing an increase in the output current of said rectifier to produce a change in the field excitation of the generator inversely with the speed thereof for maintaining the output voltage of said generator constant.

1,943,321
CLUTCH AND BEARING FOR AVIATION GENERATORS

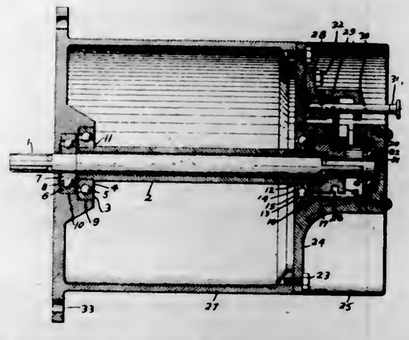
Lawrence A. Hyland, Washington, D. C.

Application February 6, 1932. Serial No. 591,442

1 Claim. (Cl. 192—67)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

An aviation type generator comprising a main frame member, an auxiliary end frame member mounted thereon having a clutch housing integral therewith, a hollow armature shaft supported in bearings in said frame members and extending beyond the supporting bearing of the auxiliary frame member into said clutch housing, a second shaft mounted within the hollow of said hollow shaft concentric thereto and extending beyond the hollow shaft at both ends, bearings for said second shaft carried by said frame members, splined portions on each of said shafts at the ends extending into the clutch housing, a collar mounted for axial movement on said second



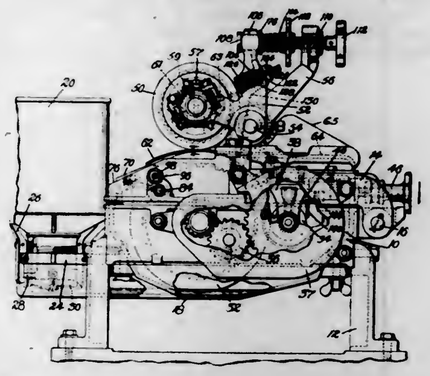
shaft, said collar being provided with a small opening extending all of the way therethrough for engaging said second shaft and a larger opening extending part of the way therethrough for engaging said hollow shaft and means for moving said collar into and out of engagement with said hollow shaft.

1,943,322
CEMENTING MACHINE

Arthur S. Johnson, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application August 5, 1930, Serial No. 473,155, and in Germany July 8, 1930

12 Claims. (Cl. 91—51)



1. In a cementing machine, a cement-applying roll arranged to coat pieces of work, a presser roll cooperating therewith, a work stripper cooperating with the delivery side of the applying roll, and adjustable supporting means for said work stripper movable from a position where the work stripper is substantially parallel with a line tangent to the surface of the cement-applying roll at the point of contact with said presser roll to a position where it is at an acute angle thereto.

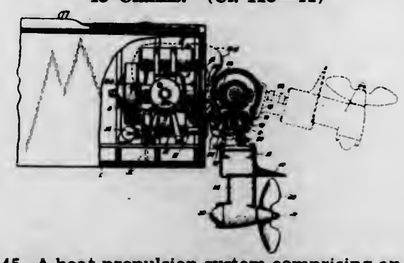
1,943,323
MARINE MOTOR FOR BEVEL GEAR PIVOTS FOR LOWER CASINGS

Harry L. Johnson, Waukegan, Ill., assignor to Johnson Brothers Engineering Corporation, South Bend, Ind., a corporation of Indiana

Application July 14, 1928, Serial No. 292,876

Renewed September 14, 1931

45 Claims. (Cl. 115—41)



45. A boat propulsion system comprising an inboard motor, a drive shaft and casing extending therefrom to the hull, and an outboard transmission unit having a driving connection with the shaft and hinged to the outer end of the casing to tilt rearwardly upward.

1,943,324
AUTOMATIC TORQUE ADJUSTER

Otto F. Kendler, New York, N. Y.

Application May 11, 1933. Serial No. 670,421

18 Claims. (Cl. 74—34)



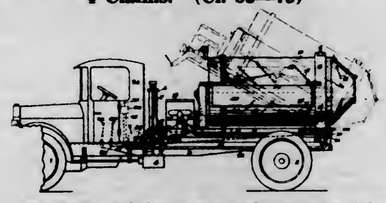
1. In combination with driving and driven members, mechanism for transmitting power from said driving to said driven member, said mechanism including a rotatable inertia mass and kinetic couplings between said inertia mass and driving member, said inertia mass and driven member, said couplings comprising a plurality of intermeshed external gears and two eccentrics upon which two of said gears are rotatably mounted.

1,943,325
CONCRETE MIXING APPARATUS

Albert Knowles, San Francisco, Calif., assignor to Transit Mixers Inc., a corporation of Nevada

Application February 24, 1931. Serial No. 517,900

4 Claims. (Cl. 83—73)



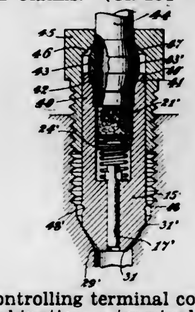
1. Concrete mixing apparatus comprising a vehicle having propelling means thereon, a frame tiltably mounted on the vehicle, an engine mounted on the frame, a mixing drum rotatably mounted on the frame, and means operatively connecting said mixing element with both the engine and the propelling means, whereby the mixing element may be operated at one and the same time by both the engine and the propelling means.

1,943,326
FLUID CONDUIT TERMINAL

Edward H. Kocher, Boonton, N. J., assignor to Auto Research Corporation, a corporation of Delaware

Application April 10, 1925. Serial No. 22,104

61 Claims. (Cl. 184—7)



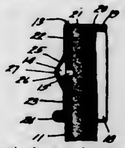
1. A flow controlling terminal connection comprising in combination, a terminal carrying support, a mounting element adapted to be secured thereinto, a flow control cartridge housed between said mounting element and said support and fitting at its outer end into a cavity in the inner end of said mounting element, said cartridge carrying strainer means and flow restricting means and a lubricant inlet through said mounting element delivering into said cartridge.

1,943,327
CONTAINER

Amon W. Langdon, New York, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application August 14, 1930. Serial No. 475,158

6 Claims. (Cl. 229—5.7)



1. In a fibre container, in combination, a fibre body having metal rivets arranged annularly adjacent its top edge and having shanks passing through said body, a cap arrangeable over said body and having a depending flange provided with a recess on its inner surface and adapted to snap over the heads of said rivets to provide a removable locking engagement between said body and said cap.

1,943,328
REENFORCED PAVEMENT AND METHOD OF LAYING SAME

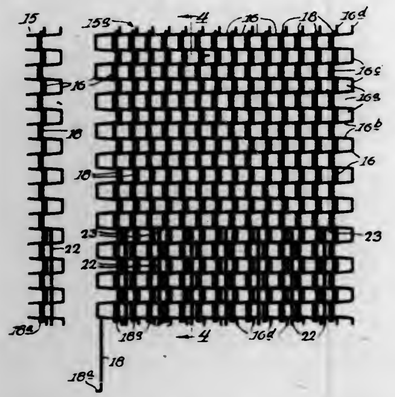
Chester M. MacChesney, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois

Application August 2, 1929. Serial No. 382,924

9 Claims. (Cl. 94—8)

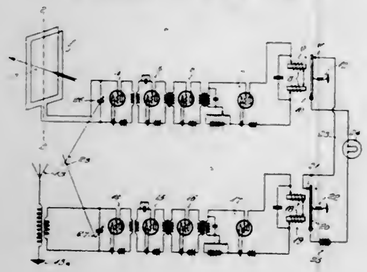
1. The method of laying a pavement which consists in forming a paving base, applying to

said base a plurality of parallel metallic matting sections each having a series of connecting pins slidably mounted therein along one edge and a series of openings along its other edge adapted to align with the connecting pins of an adjacent



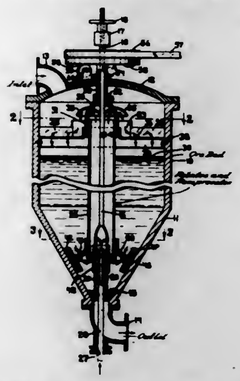
matting section, moving said pins into engagement with said openings of adjacent matting sections after said sections have been arranged in parallel relation, and then embedding said matting sections in paving material.

1,943,329
VISUAL INDICATING RADIOCOMPASS
Carlos B. Mirick, Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a corporation of Virginia
Application February 19, 1930, Serial No. 429,702
Renewed April 3, 1933
8 Claims. (Cl. 250—11)



8. In a signal receiving system, a directive receiving circuit, a responsive device connected with said directive receiving circuit and operative in accordance with signaling energy receivable by moving said directive receiving means to different positions, non-directional receiving means, a responsive circuit connected with said non-directional receiving means, a pair of relays each including an actuating winding, an armature and a contact member, a visual indicator, a source of potential, and a series circuit interconnecting said indicator, said source and said armatures and contact members, one of said relays being connected with said responsive device and the other of said relays being connected with said responsive circuit.

1,943,330
METHOD AND APPARATUS FOR THE INTERTREATMENT OF LIQUID AND SOLID MATERIALS
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application September 25, 1929
Serial No. 395,640
11 Claims. (Cl. 23—268)



7. A leaching apparatus comprising a tank having a bottom outlet, a pipe having an end communicating with the space at the top of the tank and an inlet end near said outlet, means for introducing air into the pipe for elevating liquid therethrough, and means for moving the pipe to agitate the material outside of the pipe so that material will be elevated with the liquid.

9. The method of leaching an ore material comprising the steps of forming a filter bed of the ore material in a loose, granular condition and holding the major portion thereof stationary, and passing a leaching liquid through the bed, while continuously removing ore material from one side of the bed and returning it to the other to re-form the filter bed and so present the material for further treatment and cause a rapid passage of the liquid therethrough.

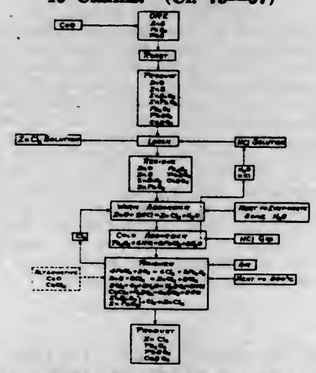
1,943,331
METHOD OF TREATING ORES
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
No Drawing. Application May 1, 1930
Serial No. 449,079
38 Claims. (Cl. 75—60)

1. The method of treating an ore containing metal values and gangue comprising the steps of grinding the ore, roasting it in the presence of and intimately associated with a considerable amount of an alkaline earth metal compound and a sulfur-bearing material which are capable of and are proportioned for reacting during the roasting operation to form an insoluble alkaline earth metal sulfate, maintaining low temperature conditions and agitating the material to minimize the tendency for the ore particles to sinter together, and thereby forming a roasted product, containing said sulfate intimately interspersed with the ore metal values, which is in a pulverulent or friable, non-sintered condition and is readily permeated by gaseous or liquid reagents, and thereafter treating said product with a reagent for converting an ore metal value to a soluble and recoverable compound which is readily separated from the gangue and insoluble alkaline earth metal sulfate.

1,943,332
METHOD OF CHLORIDIZING ORES BY MEANS OF FERRIC CHLORIDE
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
No Drawing. Application December 30, 1930, Serial No. 505,579. Renewed August 17, 1933
26 Claims. (Cl. 75—67)

1. The method of chloridizing an ore material containing a chloridizable metal sulfide comprising the steps of providing an intimate mixture of the ore material with ferric chloride and heating the mixture with oxygen to a temperature at which said chloride is not stable and in the presence of sufficient material provided for the purpose which is capable of reacting with the available sulfate radical formed by oxidation of the sulfide sulfur to prevent the ore metal from going to the sulfate form.

1,943,333
METHOD OF CHLORIDIZING METALLURGICAL ORES
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application December 30, 1930, Serial No. 505,580
Renewed January 30, 1933
19 Claims. (Cl. 75—67)

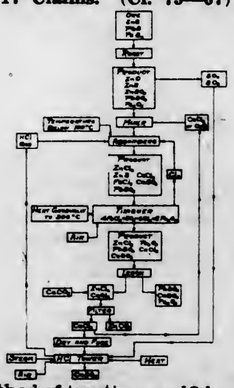


1. The method of treating a metallurgical ore material containing zinc oxide comprising the steps of leaching a considerable proportion of said oxide from said material and subsequently treating the residue with a gaseous chloridizing reagent to convert zinc compound therein to a chloride.

1,943,334
METHOD OF TREATING METALLURGICAL ORES
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
No Drawing. Application January 20, 1931, Serial No. 510,063. Renewed January 30, 1933
25 Claims. (Cl. 75—18)

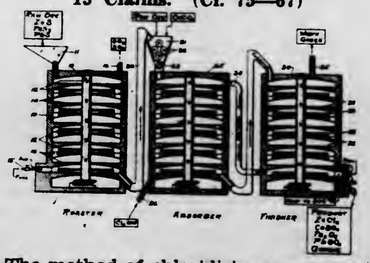
1. The method of treating a metallurgical ore comprising the steps of adding thereto a suitable compound of an alkaline earth metal and roasting the mixture in the presence of a reactable sulfur compound, and so proportioning the ingredients prior to the roasting operation that sufficient alkaline earth compound is present to react with substantially all of the reactable sulfate radical present and with the other reactable ingredients of the ore and maintaining such furnacing conditions as to produce a considerable amount of alkaline earth metal sulfate and alkaline earth metal compound with the various reactable ingredients of the ore.

1,943,335
METHOD OF CHLORIDIZING METALLURGICAL ORES
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application March 4, 1931, Serial No. 520,050
Renewed February 20, 1933
17 Claims. (Cl. 75—67)



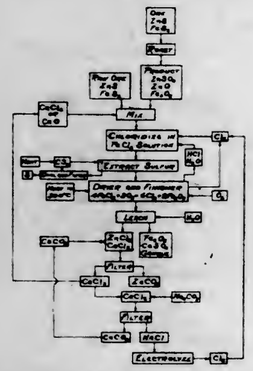
1. The method of treating a sulfide ore comprising the steps of roasting the ore under oxidizing conditions to a low sulfide sulfur content and in the absence of a sulfate fixing reagent, adding to the ore a quantity of calcium chloride proportioned in amount to react with all available sulfate radical during the chloridizing operation and causing an ore metal sulfate to be chloridized, and subsequently treating the mass with chlorine and under conditions which produce an ore metal chloride and form calcium sulfate from the available sulfate radical.

1,943,336
METHOD OF CHLORIDIZING SULPHIDE ORES
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application April 2, 1931, Serial No. 527,253
Renewed October 7, 1933
15 Claims. (Cl. 75—67)



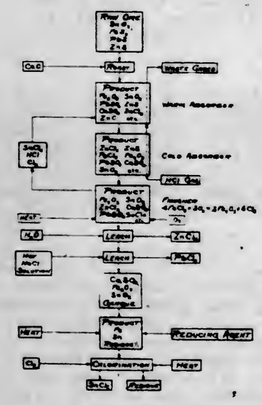
1. The method of chloridizing an ore material containing a large quantity of an unroasted chloridizable ore metal sulphide comprising the steps of passing a current of chlorine gas into contact with the ore material, while the latter is in a substantially dry condition and maintained at a low temperature, and carrying on the reaction in the presence of an alkaline earth metal compound added for the purpose which is capable of and proportioned for fixing the available sulphate radical formed during the process as an insoluble alkaline earth metal sulphate and thereby preventing the transposition of an ore metal chloride to a sulphate.

1,943,337
METHOD OF TREATING SULPHIDE ORES TO CHLORIDIZE THE SAME
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application April 6, 1931. Serial No. 528,014
18 Claims. (Cl. 75—67)



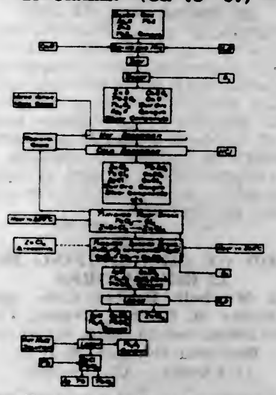
1. The method of treating a metallurgical sulphide ore comprising the steps of digesting the ore in an aqueous solution of a metal chloride capable of reducing from a higher to a lower valency and chloridizing the ore and then removing the material from the aqueous solution and heating it to a temperature at which said metal chloride is not stable and under conditions which cause further chloridizing of the ore materials.

1,943,338
METHOD OF TREATING TIN BEARING ORES
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application May 25, 1931. Serial No. 539,820
19 Claims. (Cl. 75—18)



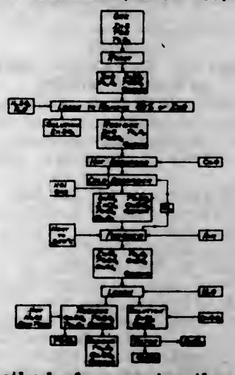
1. The method of dechloridizing stannic chloride comprising the steps of treating it with zinc oxide and maintaining conditions which cause the formation of stannic oxide and thereafter separating the zinc chloride thus formed from the tin oxide.

1,943,339
METHOD OF TREATING SILVER BEARING ORES
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application October 27, 1931. Serial No. 571,459
15 Claims. (Cl. 75—67)



1. The method of treating a complex ore containing sulfides of silver and other ore metals, comprising the steps of coating the ore in a finely divided condition with the oxide of an alkaline earth metal, roasting the coated material under conditions required to remove the sulfur from the silver sulfide and producing alkaline earth metal sulfate intimately associated with the silver-bearing portions of the ore particles, and thus minimizing any tendency for the silver to become globulized or to contact with other portions of the ore and physically or chemically combine therewith, and thereafter treating the roasted ore to convert the silver to a soluble compound and recovering the same.

1,943,340
METHOD OF RECOVERING VALUES FROM A SULPHIDE ORE
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application December 24, 1931
Serial No. 582,938
9 Claims. (Cl. 75—67)

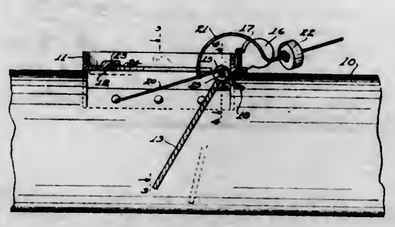


1. The method of recovering the zinc from a complex ore containing zinc and iron sulphides comprising the steps of roasting the ore to produce zinc and ferric oxides, leaching the roasted material with dilute sulphuric acid to remove the major portion of the zinc oxide as zinc sulphate and reducing the zinc oxide content of the roasted material to such an extent that, with reference to the capability of the residue to absorb the water of reaction during the chloridizing step, the amount of zinc chloride and water thus formed will be insufficient to materially hinder the penetration of the reagent gas, but leaving sufficient zinc oxide to prevent the iron from going into the solution as a sulphate, thereafter chloridizing the remaining zinc oxide content of the ore with hydrochloric acid and forming ferric chloride and heating the chloridized material with air to a temperature at which ferric chloride is not stable so as to form nascent chlorine for further chloridizing of the ore and leave the iron as an insoluble ferric oxide, whereby the zinc chloride may be dissolved and obtained substantially free of iron.

1,943,341
METHOD OF PRODUCING METAL CHLORIDES FROM ORES
Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
No Drawing. Application March 8, 1932
Serial No. 597,627
36 Claims. (Cl. 75—67)

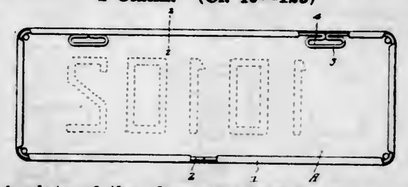
1. The method of treating a metallurgical ore to form a chloride of an ore metal value comprising the steps of roasting the ore in the presence of a sulfur-bearing material and an added compound of an alkaline earth metal which are capable of and are proportioned for reacting to form an alkaline earth metal sulfate and producing a non-sintered product containing said sulfate interspersed with an ore metal oxide which is permeable to chemical reagents, and thereafter chloridizing the roast to form an ore metal chloride therefrom.

1,943,342
DRAFT REGULATOR
Winfield F. Mortimer, Milwaukee, Wis., assignor to Emco Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 16, 1931. Serial No. 522,847
5 Claims. (Cl. 126—293)



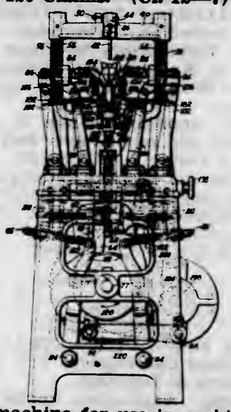
1. A draft regulator, comprising a smoke pipe having a check draft opening, a combined check-draft and damper device in which there is a movable damper member adapted in its various positions to obstruct more or less the passageway through the smoke-pipe and close more or less the check-draft opening, in combination with a regulator flap mounted on the damper to have relative movement and biased to a position for closing the check-draft opening but sensitive to the draft in the smoke-pipe for opening the check-draft more or less by such relative movement.

1,943,343
LICENSE PLATE
Thomas Wynn Posey, Brownwood, Tex., assignor of one-fourth to Sterling Clark Holloway
Application February 24, 1933. Serial No. 658,411
1 Claim. (Cl. 40—125)



A plate of the class described having a reinforcing wire extending around the edges of the plate at the rear thereof, with said edges bent over the wire, said plate having openings therein for receiving fastening means and portions of the wire being bent to form loops, the openings of which register with the openings in the plate.

1,943,344
MACHINE FOR USE IN THE MANUFACTURE OF SHOES
Charles F. Pym, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application August 4, 1931. Serial No. 555,035
120 Claims. (Cl. 12—7)

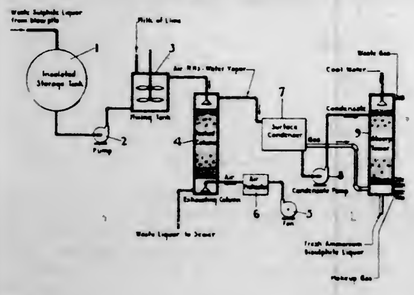


46. In a machine for use in making shoes in which the uppers are fastened in lasted position by cement, means for conforming an upper to the contour of a last substantially from its toe-end portion to its heel-end portion at one operation, comprising members movable inwardly toward the last at its opposite sides into positions to press the upper close to the last adjacent to the edge of the last bottom with its lasting margin projecting beyond said edge, and means for maintaining said members in those positions to permit cement to be applied to the lasting margin of the upper materials.

1,943,345
RECOVERY OF AMMONIA FROM COOK LIQUOR
Roger W. Richardson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 16, 1931. Serial No. 530,640
2 Claims. (Cl. 23—193)

1. In a process for the recovery of ammonia from the cook liquor in the manufacture of paper

pulp by the ammonium bisulfite process the step which comprises making the hot cook liquor alkaline and recovering the ammonia it contains by bringing it, while still hot, into intimate contact



with air, cooling the resulting gas, and absorbing in the thus condensed liquid part of the condensable ammonia, the remaining uncondensed ammonia being recovered by subsequently scrubbing the uncondensed gas free of ammonia.

1,943,346
METHOD OF PREPARING REGENERATED CELLULOSE STRUCTURES
Waldemar Schwalbe, Wiesbaden, and Otto Schnecko, Biebrich-on-the-Rhine, Germany, assignors to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany, a corporation of Germany
No Drawing. Application June 30, 1931, Serial No. 548,032, and in Germany July 11, 1930
2 Claims. (Cl. 18—57)

1. A method of producing opaque or turbid sheets, films, tubes, caps and bands without appreciably decreasing the strength thereof which comprises molding a viscose solution containing titanic acid in the known manner.

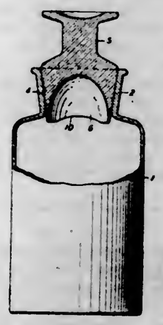
1,943,347
SPRING STEEL
Joseph Kent Smith, Detroit, Mich., assignor to The Beryllium Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 10, 1931
Serial No. 556,324
2 Claims. (Cl. 75—1)

2. A steel comprising from about 0.30% to about 5% beryllium; about 0.35% but not more than 1.5% molybdenum; about 1% but not more than 1.5% chromium; about 0.35% but not more than 0.50% carbon; about 1% but not more than 1.5% manganese; and the balance iron.

1,943,348
STEEL FOR NITRIDING
Joseph Kent Smith, Detroit, Mich., assignor to The Beryllium Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 10, 1931
Serial No. 556,326
2 Claims. (Cl. 75—1)

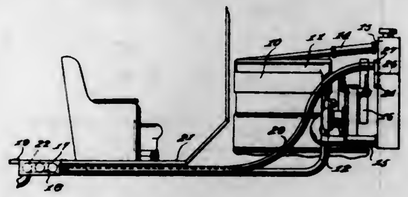
2. A steel for nitriding comprising carbon approximately from 0.15% to 0.5%, chromium from 1.5% to 3.0%, manganese about 0.5%, molybdenum from about 0.5% to 5%, beryllium from about 0.35% to about 5% and the balance iron with its common contaminants.

1,943,349
EYECUP
Francis J. Sperisen, San Francisco, Calif.
Application September 19, 1932
Serial No. 633,757
4 Claims. (Cl. 128—249)



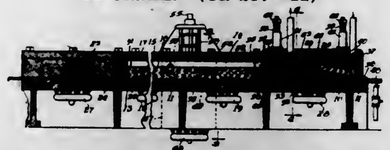
1. In combination, a bottle having a neck provided with a conical internal bearing surface, and a stopper for said bottle having a substantially elliptical cavity therein, the upper portion of said stopper being conically shaped to fit the bearing surface of the bottle neck, and the lower portion thereof tapering to an elliptical shape to provide a rim of substantially uniform width around said cavity.

1,943,350
AUTOMOBILE HEATING APPARATUS AND SYSTEM
Leslie L. Steindler, Mamaroneck, N. Y., assignor of one-fourth to Charles B. Waters, Montclair, N. J.
Application October 8, 1928. Serial No. 311,173
6 Claims. (Cl. 237—12.3)



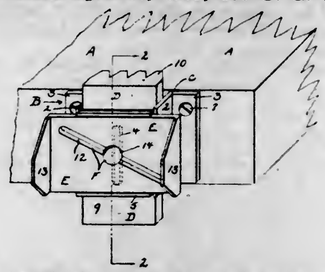
1. A heating system for an automobile having an engine cooling system including a jacketed internal combustion engine, a cellular radiator, and connections between said jacketed engine and radiator, comprising means disposed at the rear of said radiator adjacent the top thereof and closing a portion of the cellular radiator at the top thereof so as to collect air passing through the upper portion of the radiator due to the motion of the automobile, an adjustable shutter disposed below said means so as to control the flow of air through the remainder of said radiator other than covered by said means, mechanism to control the extent of opening of said shutter to thereby vary the temperature of the liquid in the radiator and a conduit to convey air collected by said means to the interior of the automobile.

1,943,351
METHOD AND MEANS FOR FORMING BIMETAL STRIPS FOR BEARING SLEEVES
Berger Stockfleth and Glenn L. Sherwood, Niles, Mich., assignors, by mesne assignments, to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio
Application December 15, 1930, Serial No. 502,443
Renewed April 1, 1933
14 Claims. (Cl. 207—11)



1. The herein described method of making a bi-metal strip which consists in passing a strip of sheet metal through a quantity of molten metal beneath the top thereof and as it leaves the molten metal, passing it through a die opening greater in height than the strip whereby a layer of the molten metal is carried with the strip, and congealing the molten metal on the strip before it emerges from the die opening.

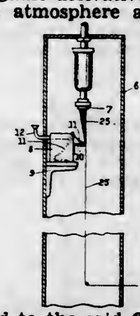
1,943,352
BENCH DOG
Charles J. Symmonds, Chevy Chase, Md.
Application May 3, 1933. Serial No. 669,108
4 Claims. (Cl. 144—306)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A bench stop comprising a bracket adapted to be secured to the edge of a work bench, said bracket including a longitudinally slotted front section, a dog mounted on and adjustable over one surface of the front section, a diagonally slotted slide disposed upon and movable over the opposite surface of the front section, the movement of said slide being at right angles to that of the dog, and a lug projecting from the central portion of said dog and extending through the slots in said front section and slide, whereby movement of the latter will effect adjustment of the dog to any desired position.

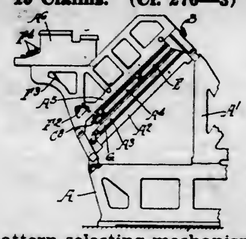
1,943,353
PRODUCTION OF ARTIFICIAL FILAMENTS OR THREADS BY THE DRY SPINNING METHOD
William Ivan Taylor, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application September 17, 1929, Serial No. 393,288, and in Great Britain October 6, 1928
9 Claims. (Cl. 18—54)

1. Process for the production of filaments of organic derivatives of cellulose by the dry-spinning method, said process comprising extruding filaments of organic derivatives of cellulose into an evaporative atmosphere applying a lustre-



modifying liquid to the said filaments and subjecting said filaments to the further action of said evaporative atmosphere while they contain a relatively high proportion of solvent.

1,943,354
PATTERN SELECTING MECHANISM
George Herbert White, Hartford, Conn., assignor to Chester A. Macomic, Chicago, Ill.
Application January 3, 1933. Serial No. 649,800
19 Claims. (Cl. 276—3)



1. In a pattern selecting mechanism, two parallel fixed tracks, a carriage constrained for movement along one of them in a direction parallel therewith, a plunger guide mounted on said carriage for longitudinal movement with respect thereto in a direction perpendicular to the track and a support between the free end of the guide and the other track movable both longitudinally and transversely thereof.

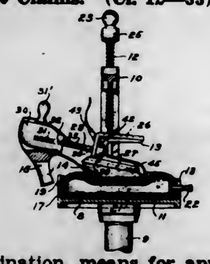
1,943,355
KEY OPENING CONTAINER
John M. Young, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application January 6, 1933. Serial No. 650,379
6 Claims. (Cl. 220—52)



1. The combination of a container scored to provide a removable area, and an integral member

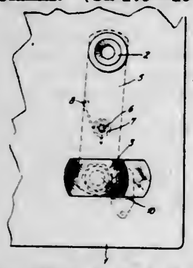
having a key part and a handle part and permanently secured at its handle part to the top of said container, said member being frangible to permit separation of the key part from said handle part for removing said removable area.

1,943,356
PRESS FOR ATTACHING SOLES TO SHOES
John O. Yunker, Wauwatosa, Wis.
Application May 23, 1932. Serial No. 612,992
10 Claims. (Cl. 12—33)



1. In combination, means for applying resilient pressure to a sole coacting with a piece of footwear along a cement coated surface, a last coacting with the interior of the footwear adjacent to said surface, a pressure block, and a heater disposed between said block and said last.

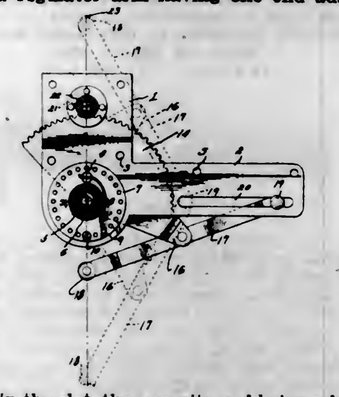
1,943,357
SOUND RECORDING APPARATUS
Arthur G. Zimmerman, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 9, 1932. Serial No. 646,444
6 Claims. (Cl. 179—100.3)



1. Sound recording apparatus of the photographic type including a casing, an inspection aperture in the said casing, a switch mounted in the wall of said casing and adapted to close an electrical circuit for the actuation of the exciter lamp of the said apparatus, and means for obscuring the said aperture connected to the said switch whereby when the said switch is closed the said aperture will be opened.

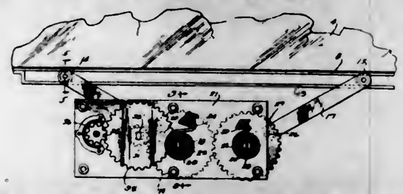
1,943,358
WINDOW REGULATOR
Edward L. Ackerman, Detroit, Mich., assignor to Ackerman-Blaesser-Fenzey, Incorporated, Detroit, Mich., a corporation of Michigan
Application May 18, 1929. Serial No. 364,181
6 Claims. (Cl. 268—126)

1. In a window regulator mechanism, a base plate having a lateral extension, a shaft adjacent the lower edge of the base plate rotatably supported therein, a gear segment fixed to the shaft, a spring fixed to the shaft tending to turn the shaft in one direction, a control device mounted on said plate including a gear meshing with the gear segment, said lateral extension of the plate having a horizontally positioned slot in alignment with the longitudinal center line of the shaft, a regulator arm having one end adapted



to ride in the slot, the opposite end being adapted to engage a sash on approximately its vertical center line, said gear segment having pivotal connection with the regulator arm intermediate its ends, and means for varying the tension of the spring.

1,943,359
SASH OPERATING MECHANISM
Edward L. Ackerman, Detroit, Mich., assignor to Ackerman-Blaesser-Fenzey, Inc., Detroit, Mich., a corporation of Michigan
Application October 14, 1931. Serial No. 568,795
4 Claims. (Cl. 268—126)

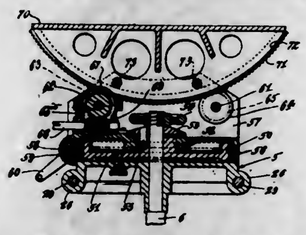


1. A device of the character described, including a sash, means for engaging the sash at two points for imparting vertical movement to the same, an actuating device for said sash engaging means, and spring means for exerting downward pressure on one of the sash engaging means, and a second spring means for exerting upward pressure on the other.

1,943,360
PHOTOGRAPHIC APPARATUS
John C. Arnold, Los Angeles, Calif., assignor to Metro-Goldwyn-Mayer Corporation, Culver City, Calif., a corporation of New York
Application November 2, 1931. Serial No. 572,501
2 Claims. (Cl. 248—47)

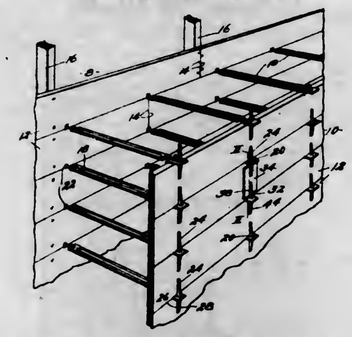
2. In an apparatus of the character described, a supporting plate, a ring gear provided with a face rotatably mounted on said supporting plate, a housing provided with vertical side plates rotatably mounted on said supporting plate and enclosing said ring gear, a driving shaft journaled in said housing, said shaft being provided with a worm gear in engagement with said ring gear whereby said housing may be rotated on

said supporting plate by actuating said driving shaft, spaced shafts journaled in said side plates, spaced spur gears carried by one of said shafts, a second ring gear loosely journaled on said shaft, a sleeve provided with an external male thread keyed on said shaft for longitudinal motion thereon, the end of said sleeve being provided with means adapted to engage with said second ring gear, a second sleeve mounted on said shaft,



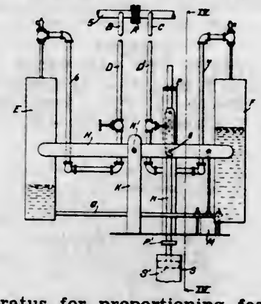
said second sleeve being provided with an internally cut thread adapted to engage the male thread of said sleeve whereby rotation of the second sleeve with respect to said shaft will impart longitudinal motion to said sleeve into and out of engagement with said second ring gear, and a camera head provided with segmental gears in operative engagement with said spur gears.

1,943,361
MOLD FORM STRUCTURE
Samuel C. Awbrey, Kansas City, Mo., assignor to Floor Accessories Company, Inc., Kansas City, Mo., a corporation of Missouri
Application April 4, 1931. Serial No. 527,822
7 Claims. (Cl. 25—131)



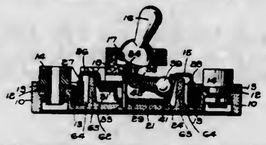
1. A mold form structure comprising, a pair of spaced walls, each having a plurality of boards disposed in edge to edge relation; certain boards in each wall being positioned to abut the ends of certain other boards; a plurality of spreader and tie bars extending transversely of said form walls between the edges of abutting boards and projecting therebeyond; means for receiving a key positioned between each projected end of each bar respectively and the outer face of the adjacent wall; and a key member in each receiving means; a tie member being above and below respectively the end-abutting boards near the point of abutment; the key carried by the lower-most tie member having an integral spanning plate whereby to bridge the joint between said abutting-board ends; the key carried by the spreader and tie bar above the end-abutting boards having a portion thereof extending over said spanning plate of the key therebelow.

1,943,362
LIQUID-FEED PROPORTIONING-DEVICE
Edward Arvel Bailey, Neodesha, Kans., assignor to The Standard Oil Company, Neodesha, Kans., a corporation of Kansas
Application September 8, 1930. Serial No. 480,348
6 Claims. (Cl. 210—31)



1. Apparatus for proportioning feed of fluid reagent which comprises means for circulating said reagent from and to a supply tank, means for throttling said flow, an orifice for discharging said reagent into the atmosphere, an orifice whereby a stream of liquid to be treated is divided into an up-stream and downstream portion, two mercury chambers connected respectively with said up-stream and down-stream portions and also with each other near the bottoms thereof, means for supporting said mercury chambers balanced on a beam about a central fulcrum, and means connecting one arm of said beam with the means for throttling the flow of the reagent.

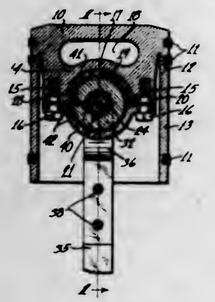
1,943,363
ELECTRIC TUMBLER SWITCH
Robert Bain, Handsworth, Birmingham, and Neville Allday, Four Oaks, England
Application July 15, 1933, Serial No. 680,512, and in Great Britain July 23, 1932
20 Claims. (Cl. 200—67)



20. An electric tumbler switch comprising an insulating base, upstanding walls on said base, arcuate recesses in said base at the outer sides of said walls, stationary contacts mounted in said recesses, a movable contact, a pivot on which said movable contact moves in a plane parallel to the plane of the base, a tumbler, a pivot for said tumbler, a support for said pivot, said tumbler moving in a plane at right angles to the plane of the base, an intermediate link connecting the inner end of said tumbler and said movable contact, said intermediate link comprising a rod and a tubular extension telescoping on said rod, a forked end on said rod for engaging the tumbler, a part spherical end on said extension, said part spherical end movably engaging said movable contact, a coiled spring disposed on said intermediate link between said forked end and said part spherical end, said movable contact being formed from strip metal with bent up ends, said bent up ends extending over said walls and projecting downwardly on the outside of said walls to engage said stationary contacts, said downwardly projecting portions moving in said arcuate

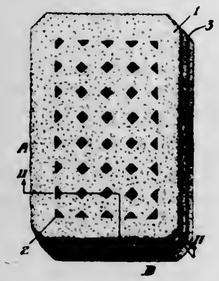
recesses, said intermediate link moving through an over-dead-centre position relative to the movable contact, when the tumbler is moved, a spring on said intermediate link, and said spring being compressed until said over-dead-centre position is reached after which the spring imparts rapid movement to the movable contact.

1,943,364
PISTON PIN ASSEMBLY
Charles F. Betz, East St. Louis, Ill.
Application March 27, 1933. Serial No. 662,973
11 Claims. (Cl. 309—20)



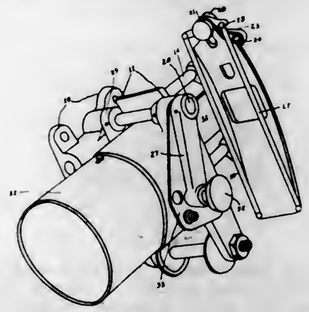
1. In a piston, pin and connecting rod assembly, a piston, a piston-pin bracket dependingly supported from the piston crown, a connecting rod having arms spaced to extend on opposite sides of said bracket, a piston pin free of connection with the skirt of the piston, and bridging said rod arms, a bushing element embracing said pin between its ends, a cap structure coacting with said bracket to form a journal for said bushing element, means for detachably securing said cap structure to said bracket, and means for detachably securing the piston pin to the rod arms.

1,943,365
BATH SPONGE OR THE LIKE
Charles R. C. Borden, Brookline, Mass.
Application January 13, 1933. Serial No. 651,572
4 Claims. (Cl. 15—244)



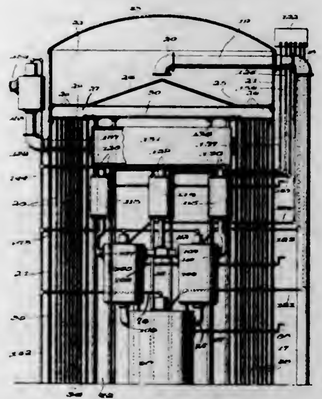
1. A sponge rubber article comprising two sponge rubber boards superposed one on the other and secured together with a sheet of non-porous material therebetween, said article having distributed over substantially its entire area a plurality of spaced normally open ducts extending entirely through it transversely of said non-porous sheet whereby the sponge cells adjacent thereto are freely vented.

1,943,366
MOTION PICTURE GATE
Freeman L. Brown, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 18, 1931. Serial No. 557,818
4 Claims. (Cl. 88—17)



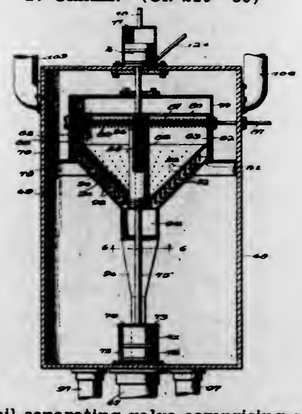
1. A film gate including a supporting member, a pair of flexible shoes fixed to said member at one of their ends and connected to a pivotal support at the other of their ends, and means for adjusting the position of said pivotal support to vary the tension applied to said shoes.

1,943,367
OIL AND WATER SEPARATOR AND PETROLEUM PURIFIER
Wilburn D. Champion, Pampa, Tex.
Application March 19, 1929. Serial No. 348,249
37 Claims. (Cl. 210—59)



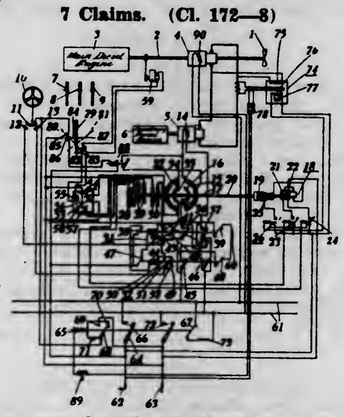
1. An oil separator of the character described comprising an inlet chamber, an approximately conical deflection shield arranged in the bottom of said chamber and having a series of openings therethrough, means for discharging crude oil onto the deflection shield approximately at the apex thereof, a series of relatively small tubes arranged approximately vertically in the separator and communicating with the openings through the shield, and a heating chamber arranged in the separator and through which the tubes extend for maintaining an approximately constant temperature of the oil during the passage through said tubes.

1,943,368
OIL AND WATER SEPARATOR AND PETROLEUM PURIFIER
Wilburn D. Champion, Pampa, Tex.
Original application March 19, 1929, Serial No. 348,249. Divided and this application May 21, 1930. Serial No. 454,491
17 Claims. (Cl. 210—59)



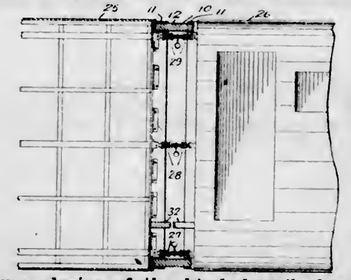
1. An oil separating valve comprising separate chambers, a structure interposed between and for regulating the flow of fluid between said chambers, including spaced shields having a series of relatively small tubes arranged therebetween, and through which the oil is forced for the removal of impurities therefrom.

1,943,369
CONTROL SYSTEM FOR POWER PLANTS COMPRISING ELECTRIC MOTORS AND PRIME MOVERS
Herbert John Coates, Erdington, Birmingham, England, assignor to The General Electric Company, Limited, London, England
Application November 30, 1932, Serial No. 644,944, and in Great Britain December 3, 1931
7 Claims. (Cl. 172—8)



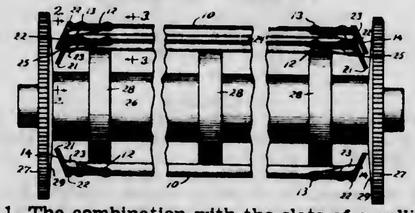
7. A power plant for driving a variable speed load, such as a ship propeller shaft, comprising a direct current electric motor, means for coupling the electric motor to the load, a prime mover, means for coupling the prime mover to the load for operation jointly with the motor, means for varying the speed of the prime mover, a direct current electric generator for supplying current to the motor, a second prime mover arranged to drive the generator at constant speed, a field regulator for controlling the excitation of the generator to vary the current supplied to the motor, an independent motor for driving said regulator, current operated control means for controlling the starting and stopping of the regulator motor, a second generator driven by the first prime mover for supplying current to said current operated control means in proportion to the speed of the load, variation in said current controlling operation of the control means to start said regulator motor, means for supplying an independent current to said control means, which current is adapted to control operation of the control means to stop the regulator motor, and a second regulator driven by the motor driving the first regulator and arranged to vary said independent current to the control means so as to stop said regulator motor when the first regulator has reached a predetermined position.

1,943,370
COUPLING FOR VEHICLES
Manuel Gomis Cornet, Madrid, Spain
Application January 15, 1931, Serial No. 508,960, and in Spain January 21, 1930
4 Claims. (Cl. 213—9)



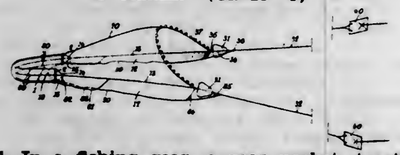
1. In a device of the kind described and in combination, a pair of vehicles, and means for coupling said vehicles together, said means comprising a ring-like elastic member disposed between the adjacent ends of said vehicles and in contact therewith, and coupler means for holding said vehicles together and against said elastic member.

1,943,371
END LOCK FOR ROLLING SHUTTERS
Earl F. Cross, Elmhurst, Ill., assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Application March 2, 1931. Serial No. 519,632
9 Claims. (Cl. 189—56)



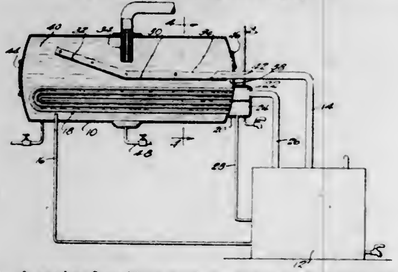
1. The combination with the slats of a rolling shutter, of end locks secured to the slats at opposite edges of the shutter, said end locks having inclined heads extending a material distance beyond one face of the slats so that upon the shutter being wound upon a drum, the heads of adjacent layers will nest together.

1,943,372
FREE GROUND-ROPE TRAWL GEAR
Oscar Dahl, La Rochelle, France, assignor to V. D. Limited, London, England
Application March 29, 1932, Serial No. 601,760, and in France May 6, 1931
5 Claims. (Cl. 43—9)



1. In a fishing gear, a rear pocket, traction cables for said rear pocket, weighted loose bands suspended from said traction cables, a covering sheet whose edges are attached to said traction cables, substantially conical members attached at their rear bases to said traction cables, and towing means attached to the front apex of said conical members, respectively.

1,943,373
DIRECT-INDIRECT WATER HEATING SYSTEM
Harry Del Mar, New York, N. Y.
Application April 1, 1933. Serial No. 663,904
4 Claims. (Cl. 122—33)



1. A water heating system comprising a storage tank and a heater, a pipe connection for the passage of hot water direct to said storage tank from said heater and a return line from the tank to said heater, in combination with an indirect heating means utilizing heat from the hot water of said heater to heat the lower water area of said tank.

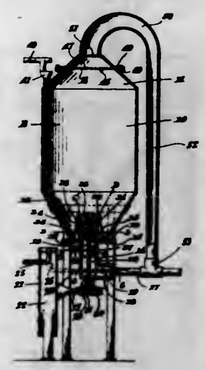
1,943,374
FOODSTUFF
Camille Dreyfus, New York, N. Y.
No Drawing. Application July 8, 1931
Serial No. 549,567
4 Claims. (Cl. 99—11)

1. A foodstuff adapted to promote peristaltic action containing a relatively water-resistant organic derivative of cellulose.

1,943,375
PROCESS FOR THE MANUFACTURE OF ALKYL ETHERS OF HYDROXY ALIPHATIC ACIDS
Henry Dreyfus, London, England
No Drawing. Application March 8, 1929, Serial No. 345,442, and in Great Britain March 16, 1928
12 Claims. (Cl. 260—112)

1. Process for the manufacture of alkyl ethers of omega hydroxy aliphatic acids which comprises reacting upon alkyl ethers with carbon dioxide at elevated temperatures.

1,943,376
STOKER FOR PULVERIZED FUEL
Harvey Newell Dilling, Trail, British Columbia, Canada
Application May 11, 1932, Serial No. 610,816, and in Canada June 4, 1931
4 Claims. (Cl. 302—42)



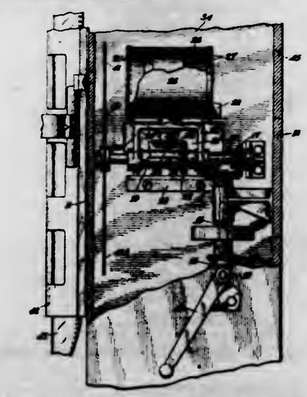
1. A stoker for combustion units comprising a fuel hopper provided with a discharge outlet, an ejector in communication with the discharge outlet and with the combustion unit, means in connection with the ejector for blowing fuel into the combustion unit, means operating within the discharge outlet for regulating the quantity of fuel, including a fixedly mounted orificed casing projecting within the hopper, a cooperating relatively movable orificed casing, an operating member projecting outside the hopper for moving the second casing relative to the first casing for controlling the size of the orifices and means operating within the hopper cooperating with said fuel regulating means for positively discharging fuel to the ejector during the operation of the stoker, including an agitator formed with a series of vanes adapted to lie adjacent to the fixedly mounted casing and overlie said orifices during rotation and means for rotating said agitator.

1,943,377
TREATMENT OF CELLULOSE ESTERS
George Holland Ellis, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of America
No Drawing. Application December 21, 1928, Serial No. 327,759, and in Great Britain January 30, 1928
7 Claims. (Cl. 95—6)

1. Process for the production of pattern effects, comprising diazotizing a material comprising a cellulose ester containing a diazotizable amine, exposing to the action of light of locally varying intensity and fixing the pattern by development.

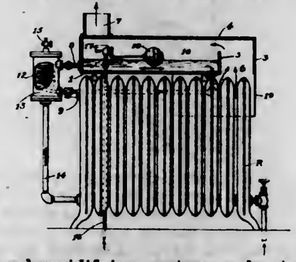
1,943,378
MOTION PICTURE CAMERA
John D. Elms, Staten Island, N. Y., assignor to Films Revo Corporation, New York, N. Y., a corporation of New York
Application July 3, 1931. Serial No. 548,539
14 Claims. (Cl. 88—16)

1. In a motion picture camera, a multi-way rotatably mounted lens capable of making a plurality of photographic images of equal photographic value during each rotation, and means for rotating said lens to present its ends successively toward a scene.



11. An optical system for a motion picture camera including a rotatable objective, characterized in that the two nodal points of the objective are coincident with the axis of rotation.

1,943,379
HUMIDIFIER
Clifford C. Emerson, Portland, Maine
Application February 24, 1930. Serial No. 430,625
2 Claims. (Cl. 261—15)

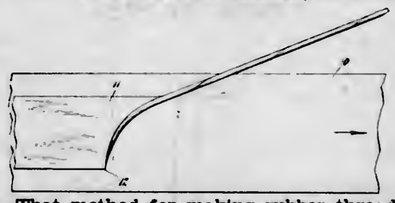


1. In a humidifying system, a heat source, a covered casing disposed above said heat source and having top, bottom, side and end walls, said bottom having an upturned flange defining with said side walls a water compartment and providing with the end wall distant from the air outlet a hot air inlet, whereby hot air rising from said heat source is guided over said water chamber and means passing a current of water through said compartment in opposite direction to the current of air passing over said water to said air outlet.

1,943,380
PROCESS OF MAKING ORTHOCHROMATIC COLLODION-EMULSION DRY PLATES
Theodor Freundorfer and Roman Freundorfer, Munich, Germany
No Drawing. Application February 27, 1932, Serial No. 595,649, and in Germany March 28, 1931
2 Claims. (Cl. 95—7)

1. The herein described method of preparing orthochromatic collodion emulsion dry plates, which consists in preparing a collodion emulsion layer containing a silver salt in suspension and a color sensitizing dye, adding to a strongly alkaline silver solution preservatives and protective colloids adapted to maintain the plate in useful condition, and applying said solution to the collodion emulsion layer.

1,943,381
METHOD FOR MAKING RUBBER THREAD
John R. Gammeter, Akron, Ohio, assignor to Revere Rubber Company, Providence, R. I., a corporation of Rhode Island
Application May 4, 1932. Serial No. 609,178
4 Claims. (Cl. 117—57)

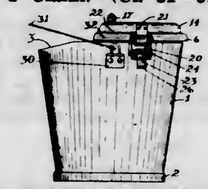


1. That method for making rubber thread of round cross-section which comprises depositing liquid rubber upon a travelling surface to form a film of determinate width, withdrawing said film from said surface at an angle thereto, and forming a thread of round cross-section therefrom.

1,943,382
ADHESIVE SUBSTANCE
Fred O. Giesecke, Evanston, Ill., assignor to International Patents Development Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application December 26, 1928, Serial No. 328,577, and in Great Britain December 26, 1928. Divided and this application July 20, 1931. Serial No. 552,080
5 Claims. (Cl. 127—32)

1. Gelatinized corn starch product containing substances in approximately the following proportions by weight: starch 78% to 81%; protein 7% to 9%; soluble substances 7% to 9%; dextrine 6% to 8%; oil 0.7% to 0.9%; cellulosic material 1% to 2%; and having a water absorption capacity of approximately 10.

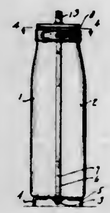
1,943,383
MILK PAIL
Charles Otto Gysler, Winnipeg, Manitoba, Canada
Application May 10, 1932. Serial No. 610,376
1 Claim. (Cl. 31—51)



A milk pail comprising a body having a hood extending partially over its upper portion leaving an opening, an inset chamber detachably supported in said opening, said chamber having a filler opening directed into the body of the pail, and an inwardly extending curved peripheral flange leaving a milking opening, said flange being formed with an opening aligned with the filler opening, a weight adapted to be supported above the opening in said flange, a flexible member depending from said weight and extending through the flange and filler openings, a resilient ball sus-

pended from said flexible member below the filler opening and adapted on displacement of said weight to close said opening, and fastening devices for detachably securing said inset chamber to the body of the pail.

1,943,384
MOLD FOR MAKING EDIBLE BOTTLES AND METHOD OF FILLING THE SAME
Charles G. Hall, Caldwell, Idaho
Application August 29, 1932. Serial No. 630,841
7 Claims. (Cl. 107—1)



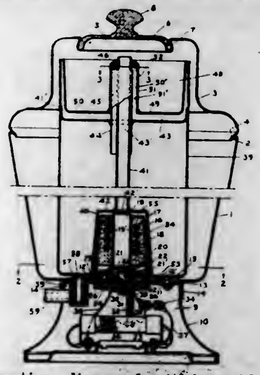
1. In a device of the class described the combination of separable hinged members, a compressible gasket disposed within the meeting face of one of the hinged members, a gasket receiving recess disposed within the meeting face of the other of the hinged members, removable clamping means for clamping the two hinged members together in closed position, a cork mounted within the united and open ends of the hinged members, a valve extending through the cork, a compressible and expansible secondary air-holding member suspended from the cork and in open communication with the valve disposed therein and a filler hole formed through the cork.

1,943,385
PROCESS FOR PRODUCTION OF OXIDATION PRODUCTS OF ACETYLENE
Wilhelm Heckel and Paul Nashan, Oberhausen-Rheinland, Germany, assignors to the firm Gutehoffnungshutte Oberhausen Aktiengesellschaft, Oberhausen-Rheinland, Germany
Application July 27, 1931, Serial No. 553,352, and in Germany August 2, 1930
3 Claims. (Cl. 260—116)

1. The process of producing acetic acid and acetaldehyde from acetylene, which consists in mixing acetylene with free oxygen containing gases, adding to said mixture small quantities of nitric oxides, intimately mixing all the constituents, and heating the mixture to the required temperature so as to cause the oxidation of the acetylene to acetic acid and acetaldehyde.

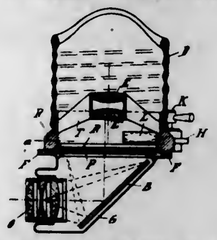
1,943,386
INFUSION DEVICE
Claude T. Johnson, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application June 1, 1931. Serial No. 541,201
19 Claims. (Cl. 219—43)

1. In a device of the class described, in combination, a tank adapted to contain a liquid, a second tank disposed within said first named tank with its bottom in spaced relationship to the bottom of said first tank and having a reentrant portion, and a heating unit mounted in association with one of said tanks, said heating unit com-



prising a portion disposed within said reentrant portion.

1,943,387
OPTICAL AIMING-DEVICE FOR MACHINE GUNS
Karl Jung, Munich, Germany
Application December 16, 1931, Serial No. 581,359, and in Hungary December 19, 1930
5 Claims. (Cl. 88—2.2)

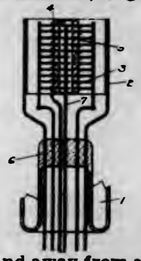


1. An optical aiming device for guns, comprising a projection lens, optical means for visualizing objects projected thereon by said lens, a mark pin for sighting, a casing for the aiming device, a magnifying lens rigidly attached to said casing over the visualizing means, and a second magnifying lens movably disposed in said casing and adapted to be moved over the entire area of said visualizing means, said two magnifying lenses being adapted to combine their power.

1,943,388
CATHODE DEVICE
Frederick S. McCullough, Wilkinsburg, Pa.
Application July 18, 1925, Serial No. 44,504, and in Canada May 11, 1925
2 Claims. (Cl. 250—27.5)

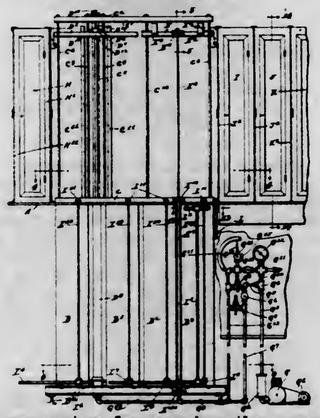
1. An audion tube including an electrode comprising a tubular heat absorbing member of insulating material, a member adapted to emit electrons when heated by alternating current passing therethrough, said emitting member being spirally arranged about said absorbing member in intimate engagement therewith to heat said absorbing member by both radiation and conduction during flow of current therethrough and receive heat from said absorbing member at the nil point of current flow through said emitting member whereby said emitting member is maintained at a substantially constant temperature by the flow of alternating current therethrough, the return conductor from one end of said spirally

arranged emitting member being positioned within said tubular member, a grid electrode posi-



tioned around and away from said emitting member, and a plate electrode positioned around and away from said grid electrode.

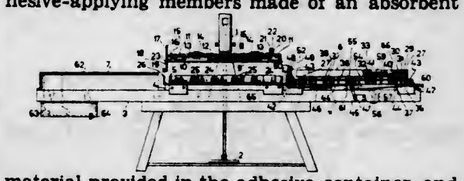
1,943,389
MEANS FOR TREATING MOTION PICTURE FILMS TO PROVIDE FADE-IN AND FADE-OUT EFFECTS
Raymond C. Mercer, Los Angeles, Calif.
Application April 26, 1929. Serial No. 358,296
6 Claims. (Cl. 95—89)



1. An apparatus for varying the opacity of motion picture films comprising a vertically disposed elongated tank for containing a dye or bleaching solution, a frame superposed relative to said tank, a film carrier vertically movable on said frame relative to said tank, means removably held on said carrier for supporting a plurality of strips of film to be treated in suspended positions above said tank, means for lowering said carrier and said films at selected speeds, whereby successive portions of the films will be immersed in the dye or bleaching solution for gradually increasing periods of time corresponding to the relative positions of the said portions of films in the tank at the completion of the lowering operation, and connections between said carrier operating means and a fluid pressure system for imparting movement to the carrier.

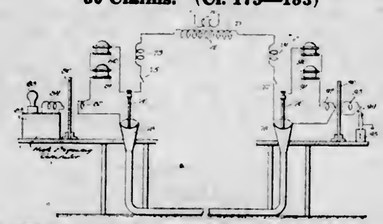
1,943,390
APPARATUS FOR MOUNTING SAMPLES ON CARDS AND THE LIKE
Alfred Oser, Vienna, Austria
Application September 26, 1931, Serial No. 565,245, and in Austria October 13, 1930
22 Claims. (Cl. 216—14)

1. An apparatus for mounting samples on cards and the like, comprising a head for carrying a card, a bed underneath said head, an adhesive-container and a sample-container slidably mounted and positively guided on said bed, adhesive-applying members made of an absorbent



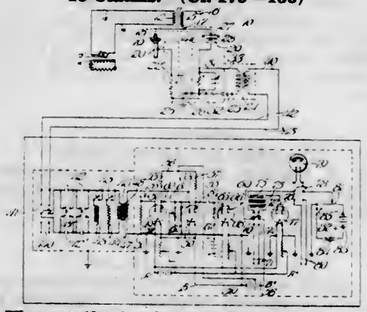
material provided in the adhesive-container, and means for alternately lowering said head over said adhesive-container so as to apply adhesive to said card, and over said sample-container so as to cause the samples to adhere to said card.

1,943,391
METHOD OF AND MEANS FOR TESTING INSULATION
Ellery B. Paine, Joseph Tykocinski-Tykociner, and Hugh A. Brown, Urbana, Ill., assignors to Board of Trustees, University of Illinois, Urbana, Ill., a corporation of Illinois
Application December 22, 1930
Serial No. 504,045
30 Claims. (Cl. 175—183)



1. The method of testing insulation which comprises impressing on the insulation a potential below the breakdown potential of the insulation and sufficient to cause insulation inhomogeneities to set up disturbance currents, and measuring the disturbance currents set up in the insulation by that potential.

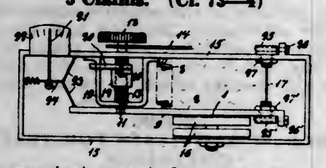
1,943,392
METHOD OF AND MEANS FOR TESTING CABLES
Ellery B. Paine, Joseph Tykocinski-Tykociner, and Hugh A. Brown, Urbana, Ill., assignors to Board of Trustees, University of Illinois, Urbana, Ill., a corporation of Illinois
Application December 22, 1930
Serial No. 504,046
18 Claims. (Cl. 175—183)



1. The method of testing insulation which comprises impressing a known potential on a sample, balancing out the charging current of

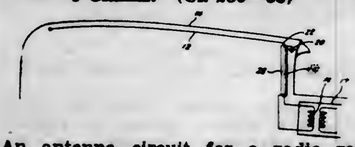
said sample, filtering out the harmonics of said potential and current, and measuring the high frequency discharge currents set up in the insulation by said potential.

1,943,393
MEASURING AND REGISTERING INSTRUMENT
Josua Gabriel Paulin, Eskilstuna, Sweden
Application May 21, 1930, Serial No. 454,371, and in Sweden June 3, 1929
3 Claims. (Cl. 73—4)



2. In an instrument for measuring variable forces, a measuring member adapted to be moved in response to said forces, a lever connected with said measuring member, a flexible member connecting a point of said lever with a stationary point of the instrument for providing a frictionless pivotal suspension of the lever, a spring-system connected with said lever to counter-act the forces to be measured, a zero-izing mechanism for adjusting the magnitude of the counter-acting spring power to thereby balance the forces to be measured, and means for displacing the point of connection of said flexible member with the lever whereby to vary the ratio between the length of the arms of the lever.

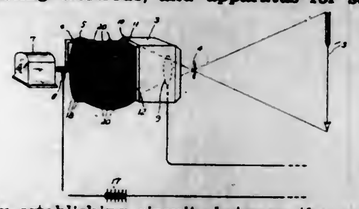
1,943,394
ANTENNA
Laurence M. Perkins, Dayton, Ohio, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application May 31, 1930. Serial No. 457,727
3 Claims. (Cl. 250—33)



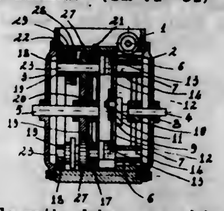
1. An antenna circuit for a radio receiver mounted on a motor vehicle or the like containing a framework of conducting material, said antenna circuit including a signal receiving portion, a lead in, a reactance unit and a ground lead, said ground lead extending substantially parallel to the lead in so that the circuit is grounded to said conducting frame adjacent to the juncture of the receiving portion and the lead in.

1,943,395
TELEVISION APPARATUS
George S. Pfeiffer, Oak Park, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application November 29, 1929
Serial No. 410,377
4 Claims. (Cl. 178—6)

1. A photo-electric cell including a light sensitive member divided in sections insulated from each other, a commutator having sectors equal in number to the sections of said light sensitive member, each of said sections being electrically connected to one of said commutator sectors, a collecting electrode, and apparatus for successively establishing circuits between the sections of said light sensitive member and said collecting electrode.



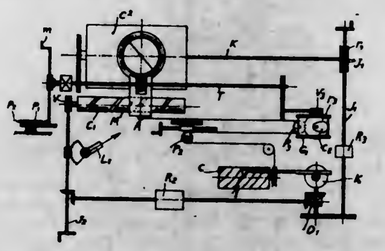
1,943,396
CHANGE SPEED GEAR
Léon Quevrain and Hippolyte Quevrain, Paris, France
Application February 6, 1932, Serial No. 591,374, and in France February 12, 1931
2 Claims. (Cl. 74—54)



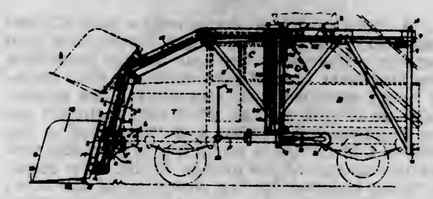
1. A variable ratio drive comprising a driving shaft and a driven shaft, a crown arranged concentrically about and provided with a central sleeve bearing and rotatable on the driving shaft and bearing a ring of equally spaced pivots, a crank pin on the free end of the driving shaft and a plate on this pin, driving levers pivotally connected at their outer ends to the equally spaced pivots and having their inner ends pivotally connected by links to the plate on the crank pin, a ring of shafts arranged concentrically about the driven shaft and each carrying a pinion meshing with a central toothed wheel keyed on this shaft, driven levers secured at one end to the said pinion shafts and having at their other ends a pin and a sliding pivotal connection between the driving levers and the pins on the driven levers, and means whereby the pinions are locked on their shafts for one direction of rotation and are free on their shafts for the opposite direction of rotation.

1,943,397
APPARATUS FOR DETERMINING THE COURSE AND SPEED OF AIRCRAFT
René Riberolles, Paris, France
Application July 18, 1931, Serial No. 551,728, and in France August 6, 1930
8 Claims. (Cl. 235—61.5)

1. In an apparatus for determining the course and speed of flight of an aircraft making a sight angle and an azimuth angle in travel, and moving at known altitude, the combination of a rotatable tracing cylinder, a telescope adapted to be trained upon the aircraft and movable in azimuth, means connecting said telescope with said tracing cylinder and communicating movements of said telescope in azimuth to said cylinder and rotating the same upon its axis in predetermined relation to said movements and thereby in proportion to the travel of said aircraft, a stylus shiftably disposed upon the generatrix of said cylinder, guide means for guiding said stylus along the generatrix of the cylinder, means also connecting said telescope with said stylus and communicating the movements of the telescope in sight thereto so as to shift the stylus in predetermined relation to said movements and cause the stylus to trace a curve on said cylinder which makes an angle with said generatrix which is equal to the angle made by the course of the aircraft with respect to the vertical plane of sight.



1,943,398
COMBINED LOADING AND TRANSPORTING EQUIPMENT
Don A. Sargent, Portland, Maine
Application September 19, 1932
Serial No. 633,711
5 Claims. (Cl. 214—85)



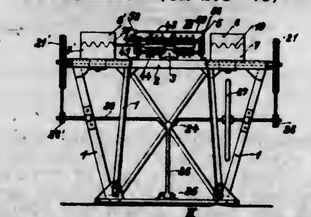
1. In a loading equipment adapted to be demountably installed on a motorized vehicle having a body therefor, comprising a non-endless track-way, including two channel members relatively spaced and extending from a location immediately above the ground line upwardly at a rearward inclination and thence horizontally over the said vehicle to the rearward end thereof, a scoop having an imperforate bottom and two sides, means on said scoop adapted to engage said channel members and guide it as it traverses said members, a door hinged on the rearward end and at the bottom of said scoop, means to hold said door closed until said scoop, in its rearward movement, reaches a predetermined location on the horizontal portions of said channel members, and means, positively acting in both directions and having interconnection with the propulsion power unit for said vehicle, to move said scoop along said track-way.

1,943,399
GOLF CLUB SEAL AND METHOD OF MAKING THE SAME
Kenneth Smith, Kansas City, Mo.
Application February 23, 1933. Serial No. 594,444
5 Claims. (Cl. 273—81)

1. In a golf club, a shaft; a wrapping for the shaft; a plurality of perforations formed through the wrapping; and a cap over the end of said shaft and a portion of said wrapping, said cap having integral projections extending through the said perforations underlying the cap.

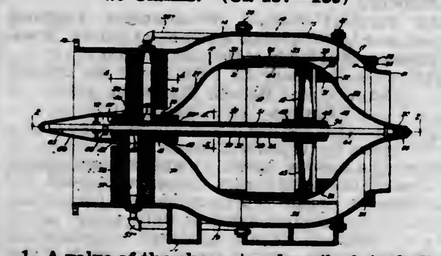


1,943,400
MEANS FOR STRINGING TENNIS RACKETS WITH STRINGS
Siegfrid Taaber and Ladislaus Fischmann, Vienna, Austria, assignors, by mesne assignments, to Dunlop Rubber Company Limited, London, England
Application March 19, 1929, Serial No. 348,328, and in Austria July 17, 1928
5 Claims. (Cl. 273—73)



1. In an apparatus for stringing tennis racket frames, the combination of clamping means for gripping the racket frame, clamping means for gripping the strings, actuating means associated with said second clamping means to move the same and tension the strings clamped thereby, and shed forming means to open a passage-way to receive a transverse string therethrough.

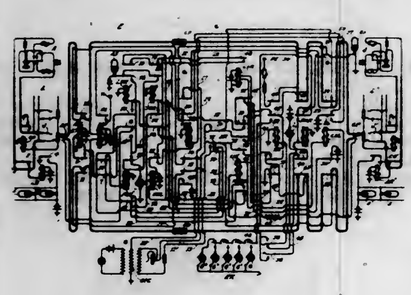
1,943,401
VALVE
James A. Thomas, Los Angeles, Calif.
Application February 24, 1932. Serial No. 594,766
20 Claims. (Cl. 137—139)



1. A valve of the character described, including a tubular body having an internal valve seat, a

plug in the body operable into and out of cooperation with the seat, the plug having an internal cylindrical portion, a plurality of spaced guides on the interior of the body carrying the plug for movement into and out of cooperation with the seat, said spaced guides being operable to slidably guide the plug when it is in and adjacent the fully opened position, and means for operating the plug including, a stationary piston dividing the cylindrical portion into two chambers, and means for circulating fluid under pressure to and from the said chambers.

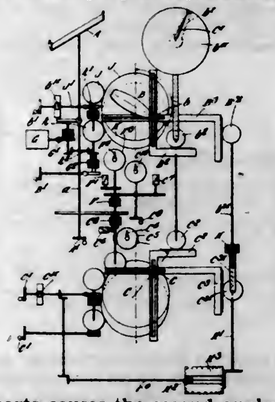
1,943,402
TELEPHONE SYSTEM
Bert A. Wallace, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application June 16, 1932. Serial No. 617,537
17 Claims. (Cl. 179—41)



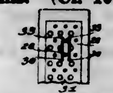
1. A telephone system comprising local calling lines and called local and trunk lines, an operator's link circuit having a pair of terminals for connecting said calling line to a called local line or a trunk line, means in said link circuit controlled by said calling local line on a local to local connection for operatively disassociating said calling line from said link circuit, a supervisory signal in said link circuit lighted upon the operation of said means, means in said link circuit for rendering ineffective the said first means when said local line is connected to a trunk line, and subscriber controlled means for operatively disassociating said link circuit from said trunk line.

1,943,403
APPARATUS FOR USE IN DETERMINING THE COURSE TO BE GIVEN TO TORPEDOES
John Percival Watson, Westminster, England, assignor to Vickers-Armstrongs Limited, Westminster, England, a British company
Application February 18, 1932, Serial No. 593,835, and in Great Britain March 16, 1931
7 Claims. (Cl. 235—61.5)

2. Apparatus for use in determining the course to be given to torpedoes, comprising a sight for observing a moving target, an analyzer adjustable in accordance with target course and speed and including a vector representing the component of target course and speed at right angles to the line of sight, a second analyzer adjustable in accordance with torpedo speed and which is also adjustable to give the torpedo course, and an indicator having parts adjustable by the two analyzers, whereby equal adjustment of the indicator parts causes the second analyzer to give the required torpedo course.

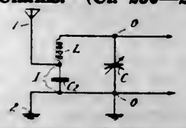


1,943,404
FOUNTAIN PEN CHECK PROTECTOR
Carl D. Weston, Glendale, Calif.
Application February 28, 1933. Serial No. 658,910
3 Claims. (Cl. 101—26)



1. A check protector, comprising a pair of complementary members, a hinge connecting said members adjacent to one end, prongs projecting from the inner face of each member, each member being provided with recesses for the accommodation of said prongs when said members are closed against each other, a spring seated in one member and having a portion overlying the face thereof and one of the prongs on the other member being notched for the reception of the overlying portion of said spring when said members are closed against each other.

1,943,405
ELECTRIC COUPLING CIRCUITS
Harold A. Wheeler, Jackson Heights, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application September 10, 1930
Serial No. 480,948
3 Claims. (Cl. 250—20)



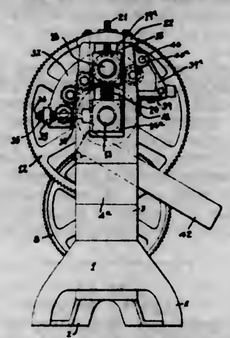
1. A high frequency electric coupling circuit comprising an input terminal, an output terminal and a common terminal, a fixed capacity connected directly between said input and common terminals, a variable condenser of smaller capacity connected between said output and common terminals, and an inductance connected between said input and output terminals, whereby there is formed a closed circuit tunable over a frequency range, the elements of said closed circuit being proportioned to provide uniformly high selectivity and sensitivity throughout said frequency range.

1,943,406
AWNING FRAME
Henry S. Wilson and Henry Lauten, New York, N. Y.
Application November 1, 1932. Serial No. 640,607
6 Claims. (Cl. 156—44)



1. In an awning frame, an arm having a lateral substantially U-shaped bend at one end with an out-turned free end on the outer arm of said U-shaped bend, the bend and the outer arm of said U-shape having a longitudinal slot, a support arm against the outer arm of said U-shaped bend, and a screw mounted upon said support arm engaging through said longitudinal slot for holding the arm movable from an extended position in which said out-turned free end prevents further motion to a position in which said arm is considered collapsed.

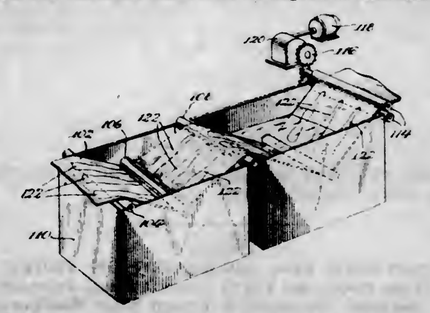
1,943,407
BENDING MACHINE
Carl M. Yoder, Lakewood, Ohio
Application February 24, 1930. Serial No. 430,873
6 Claims. (Cl. 153—56)



1. In a machine for bending metal sections, the combination of a guiding roll, a series of cooperating rolls disposed about the axis of said guiding roll, means for driving one of said rolls, a guide for supporting each section while it is fed to said rolls, said guide being movably supported to permit it to be moved to an inoperative position after each section has been fed to said rolls, whereby the section may be re-passed to said rolls, and means carried by said guide arranged to be engaged by each blank as it completes its pass through said rolls and arrest it and guide it to a receiver.

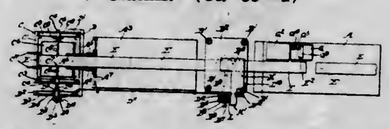
1,943,408
HOSIERY AND METHOD OF MAKING THE SAME
Oscar U. Zerk, Chicago, Ill.
Application May 28, 1930. Serial No. 456,334
1 Claim. (Cl. 8—5)

The method of dyeing hosiery which comprises passing the hose to be dyed longitudinally through a dyeing solution at a varying speed with only a comparatively small transverse section being in the dyeing at one time whereby different portions thereof will be dyed to different degrees of color depth, the changes in speed being sufficiently gradual that the difference in degree of saturation



of the dye between successive incremental transverse zones of the hose will be very small.

1,943,409
METHOD OF AND APPARATUS FOR MAKING BELTS
Charles A. Ball, Chicago, Ill., assignor to Chicago Belting Company, Chicago, Ill., a corporation of Delaware
Application September 14, 1931
Serial No. 562,649
5 Claims. (Cl. 69—1)

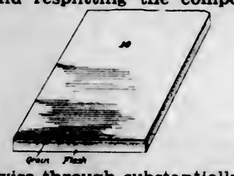


3. The method of manufacturing belts by joining in succession shorter pieces of leather to each other to form a longer piece, which includes subjecting an inactive adhesive sheet to immersion for a predetermined period in a liquid softening medium, terminating said immersion and said period at a predetermined time in relation to the application of pressure to the joints between the individual pieces of leather, applying, substantially immediately upon the termination of its immersion, said sheet to a joint between adjacent pieces of leather to be joined, thereafter and substantially immediately subjecting said joint to pressure, maintaining said pressure for a determined time, and thereafter advancing the joint so formed from the zone of pressure and continuing the process by similarly joining additional pieces of material to the belt so formed, and so timing the periods of pressure and the periods of immersion that when one joint has been completed and advanced from the pressure zone an adhesive sheet is ready for immediate application to the ensuing joint.

1,943,410
METHOD OF MAKING WELTING FILLETS AND STRIPS
Walter G. Barbour, Quincy, Mass., assignor to Perley E. Barbour, Quincy, Mass., doing business as Barbour Welting Company, Brockton, Mass.
Application August 2, 1930. Serial No. 472,721
6 Claims. (Cl. 12—146)

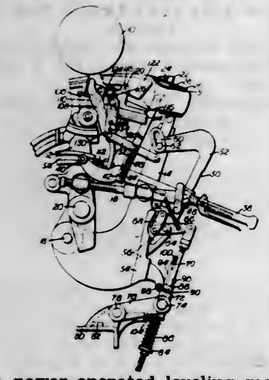
1. The method of making welting fillets and strips which consists in preparing a grain leather fillet of at least double the desired thickness of the welting, splitting said leather fillet widthwise through its thickness, reversing a grain

splitting and securing it grain down on a flesh splitting, and resplitting the composite leather



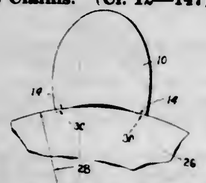
fillet widthwise through substantially the middle of the grain substance.

1,943,411
MACHINE FOR OPERATING ON SHOES
Arthur Bates and Frank Bycroft Keall, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 14, 1929, Serial No. 414,152, and in Great Britain December 28, 1928
83 Claims. (Cl. 12—34)



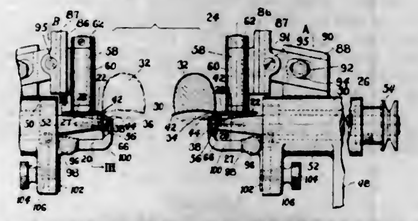
1. In a power-operated leveling machine, the combination with a shoe support having means for supporting a shoe and its last at the forepart and at the heel end, and a leveling tool for applying leveling pressure to the bottom of a shoe on said support, of mechanism movable automatically after the starting of the power operation of the machine to jack the shoe on the shoe support.

1,943,412
HEEL AND METHOD OF MAKING THE SAME
Lewis J. Bazzoni, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application January 24, 1931. Serial No. 511,036
18 Claims. (Cl. 12—147)



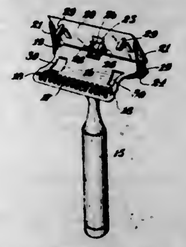
1. That improvement in methods of making covered heels which consists in relieving the lateral margins of the breast of a heel so as only partially to allow for the thickness of covering material for the sides of the heel, applying covering material to the sides of the heel and laying marginal portions of said material upon said relieved breast margins, and thereafter reducing said marginal portions of the side covering material to form thereon outer surfaces flush with the unrelieved surface of the heel breast.

1,943,413
MACHINE FOR TRIMMING COVERS OF HEELS
Lewis J. Bazzoni, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 27, 1931. Serial No. 553,323
28 Claims. (Cl. 12—42)



1. A machine of the class described having, in combination, members having convex surfaces curved about axes inclined at a substantial angle to each other, said surfaces of the members comprising portions constructed and arranged to engage surfaces of a shoe part to which a cover is attached and beyond which the cover projects, said members being spaced from each other to provide an opening through which the cover projecting beyond the shoe part extends when the shoe part engages said surfaces, the two said gaging surfaces having their tangent planes at their shoe engaging portions extending nearly parallel to each other, and a cutter mounted for engagement with one of said members and constructed and arranged to cooperate therewith to trim the cover extending through said opening.

1,943,414
SAFETY RAZOR
Marcus B. Behrman, Brooklyn, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application November 16, 1928
Serial No. 319,956
8 Claims. (Cl. 30—12)



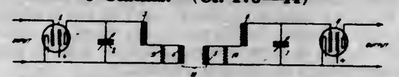
1. In a razor, a blade seat provided with a guard edge and blade stops associated with the latter, a single-edged blade applicable to the seat with its cutting edge over said guard edge, a cover movable onto and off said seat, and means operable upon the rear edge of the blade and also upon a midportion of the blade, during closure of the cover, for advancing said cutting edge against said stops.

1,943,415
SAFETY RAZOR AND BLADE
Marcus B. Behrman, Brooklyn, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application August 23, 1930. Serial No. 477,265
9 Claims. (Cl. 30—12)



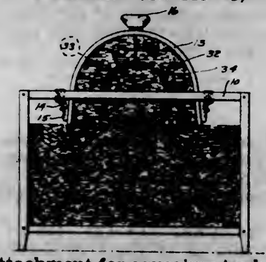
3. A safety razor comprising a split blade seat having a pair of opposed guard edges, said seat being adapted to receive a double-edged blade thereon, and a cover for said seat, each end of said cover being provided with a plug depending and spaced from said cover and adapted to pass downwardly through the split in said seat, said cover being also provided with a pair of depending walls, one on each side of said plug and a third member intermediate thereof, said walls being adapted to engage the side portion of the blade on said seat so as to position the blade with respect to said cover and said third member being adapted to first position itself between the sections to maintain them spaced and then to pass therebeyond.

1,943,416
BAND PASS AMPLIFIER
Rene A. Braden, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 3, 1929. Serial No. 411,261
9 Claims. (Cl. 178—44)



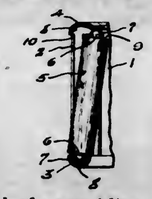
1. In combination, a pair of oscillation circuits, means for inductively coupling the circuits, variable tuning means in each of said circuits for tuning the circuits to a desired radio frequency, and an impedance in each circuit, independent of the tuning means, of a magnitude such that current is diverted from said coupling means in proportion with increase in frequency of coupling current.

1,943,417
ATTACHMENT FOR AQUARIUM TANKS
George W. Bringman, Cleveland, Ohio
Application September 3, 1932. Serial No. 631,643
4 Claims. (Cl. 119—5)



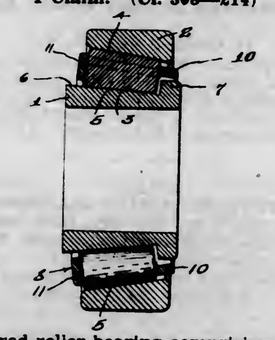
1. An attachment for aquarium tanks, comprising a hollow arch having a transparent wall, and movable up and down in the tank, a valve in the top of the arch, to permit the escape of air when the arch is lowered into the tank, and acting to close when the arch is raised, and means to support the arch in raised position.

1,943,418
ROLLER BEARING CONSTRUCTION
Charles S. Brown, Syracuse, N. Y.
Application September 22, 1932
Serial No. 634,413
2 Claims. (Cl. 29—84)



1. The method of assembling rollers in a one-piece cage, which consists of barrel portions formed with roller receiving slots, and heads at the ends of the barrel portions having annular grooves for receiving axles at the ends of the rollers, consisting in leaving one of the heads initially displaced outwardly for permitting the insertion of the rollers into the slots, inserting the rollers with their axles in the groove of the undisplaced head at an inclined angle to their final position and tilting them about the ends of the axles, as fulcrums, in the groove of the undisplaced flange to carry the axle at their other end under the displaced flange, and thereafter folding the initially displaced flange into final position.

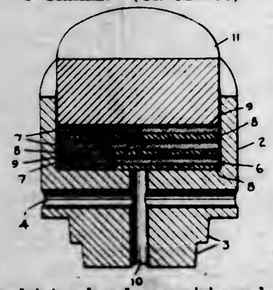
1,943,419
TAPERED ROLLER BEARING
Charles S. Brown, Syracuse, N. Y.
Application September 22, 1932
Serial No. 634,414
1 Claim. (Cl. 308—214)



A tapered roller bearing comprising inner and outer raceways having opposing conical surfaces, the conical surface of the inner raceway at the larger end of the cone extending to the outer end of the inner raceway and beyond the outer ends of the tapered rollers, the tapered rollers between said conical surfaces and bearing throughout their entire length on both of said surfaces, and a cage for the rollers, said cage being provided with spacing bars between the rollers engaging the peripheries of the rollers, and a flat annular shoulder engaging the end faces of the rollers at the larger ends thereof,

the surfaces of the shoulder opposed to each roller being nearly as of great area as that of the end surface of the roller, whereby the surfaces of the shoulder thrusting against the larger ends of the rollers holds the rollers in alinement and from outward displacement.

1,943,420
PILE-DRIVING HEAD
Robert D. Budd, New York, N. Y., assignor to Pierce Steel Pile Corporation, New York, N. Y., a corporation of New York
Application August 5, 1930. Serial No. 473,189
6 Claims. (Cl. 61—77)

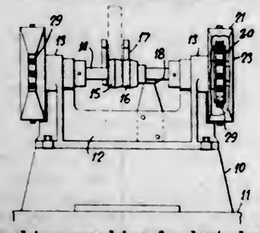


1. A pile-driving head comprising a head proper formed with a cup, said head proper adapted to rest on the upper end of a tubular pile to transmit the driving stress thereto, shock-absorbing means in said cup consisting of a loose assemblage of steel discs separated by layers of non-metallic, non-combustible, compressible material, and an anvil resting on said assemblage.

1,943,421
PROPELLENT EXPLOSIVE
Robert Burns and Oliver Ward Stickland, Stevenston, Scotland, assignors to Imperial Chemical Industries Ltd., a corporation of Great Britain
No Drawing. Application January 6, 1931, Serial No. 507,041, and in Great Britain January 6, 1930
12 Claims. (Cl. 52—5)

1. A propellent explosive containing as an ingredient a stable, non-volatile organo-metallic tin compound in which the metal is linked directly to carbon and which has no destabilizing action on the constituents of the powder.

1,943,422
UPPER-ROUGHING MACHINE
William C. Card, Jr., Waverly, Mass., assignor to Compo Shoe Machinery Corporation, New York, N. Y., a corporation of Delaware
Application May 29, 1929. Serial No. 366,828
2 Claims. (Cl. 12—51)



1. A roughing machine for lasted shoe uppers, comprising a rotatable roughing element, and means for rotating said element; said element comprising a circular block, a plurality of pivotally-disposed cup elements circumferentially mounted thereon in limp relationship therewith; each of said cup elements carrying a plurality of wire bristles, the free ends of which are adapted to be impelled outwardly in a radial direction as the block is rotated, and cushioned supporting means between said cup elements and said circular block.

1,943,423
RUBBER ADHESIVE
Walter W. Dunfield, Yonkers, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a corporation
No Drawing. Application January 25, 1929 Serial No. 335,152
6 Claims. (Cl. 87—17)

1. An adhesive compound comprising previously melted rubber, rubber, a solvent and vulcanizing ingredients.

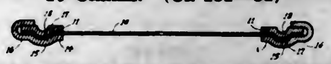
4. In the art of making adhesives, the steps of heating rubber from 10–20 hrs. at temperatures in the neighborhood of 300° C., mixing the thus treated rubber with vulcanizing ingredients and rubber cement.

1,943,424
RUBBER ADHESIVE
Walter W. Dunfield, Yonkers, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn, a corporation of Connecticut
No Drawing. Application October 24, 1931 Serial No. 570,983
11 Claims. (Cl. 87—17)

6. An adhesive compound comprising "melted rubber", Newbrough rubber, unmelted rubber, a solvent and vulcanizing ingredients.

10. An adhesive material containing "melted rubber" and Newbrough rubber in the range from 25 parts of "melted rubber" and 75 parts of Newbrough rubber, to 75 parts of "melted rubber" and 25 parts Newbrough rubber, and a minor proportion of unmelted rubber.

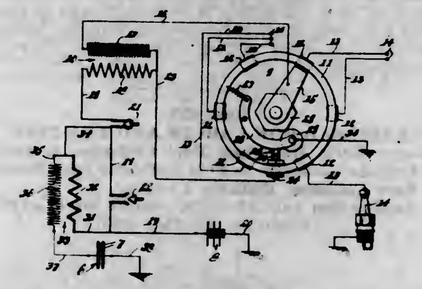
1,943,425
DIAPHRAGM
George R. Eaton, Oak Park, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application December 26, 1931. Serial No. 583,300
10 Claims. (Cl. 181—31)



1. The method of manufacturing a stretched diaphragm which consists in clamping the peripheral edge of the diaphragm between a pair of annular members one of which has a groove therein and then forcing a portion of the diaphragm and of the other annular member into said groove to form a unitary structure.

1,943,426
OZONATOR
John R. Fischer and Joseph G. Sola, Chicago, Ill., assignors to Sola Corporation, Chicago, Ill., a corporation of Illinois
Application November 21, 1929 Serial No. 409,684
3 Claims. (Cl. 123—146.5)

1. An apparatus of the type described, comprising in combination two primary coils, a circuit breaker, a battery, a primary circuit connecting said foregoing elements in series, a secondary coil in transformer relationship to one of said primary coils, secondary circuit means for said secondary coil whereby a high tension current impulse is sent through said secondary coil when said primary circuit is broken, a second secondary coil in transformer relationship to the other one of said primary coils, an ozonator, and secondary circuit means connecting said ozonator with said second secondary coil whereby a high tension current impulse is impressed upon said ozonator for rendering it effective when said primary circuit is broken.

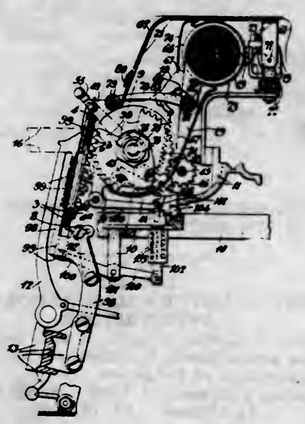


1,943,427
PRODUCTION OF ORGANIC ACIDS
Hans Franzen, Mannheim, Hans Beller, Ludwigshafen-on-the-Rhine, and Martin Luther, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application October 11, 1929, Serial No. 399,090, and in Germany November 1, 1928
11 Claims. (Cl. 260—116)

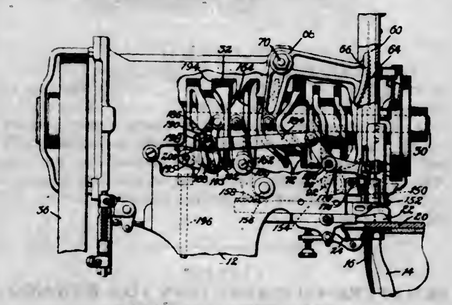
1. In the production of organic acids from oxidation products of high molecular aliphatic compounds, the steps which comprise treating said oxidation products with an aqueous solution of a saponifying agent, adding to the aqueous solution of the crude soaps, so formed, a water-insoluble non-aromatic organic solvent, thereby forming two layers of liquid, the lower of which consists entirely of soap solution and the upper of which contains soap solution, solvent and the unsaponifiable portion of the initial oxidation product, withdrawing so much of the lower layer as is free from unsaponifiable matter, thereby leaving an emulsion containing solvent, soap solution and unsaponifiable matter, breaking said emulsion by adding thereto a lower member of the aliphatic alcohol series, thereby breaking the emulsion into two layers, the lower of which consists entirely of soap solution and the upper of which contains the aforesaid solvent and the unsaponifiable matter and separating the layers so formed.

1,943,428
TYPEWRITING MACHINE
Carl Gabrielson, Syracuse, N. Y., assignor to L C Smith & Corona Typewriters Inc., Syracuse, N. Y., a corporation of New York
Application April 22, 1931. Serial No. 531,993
17 Claims. (Cl. 197—135)

3. A stencil card typing machine having a card holding frame, a platen of less length than the width of the window portion of the frame, and means for shifting the frame edgewise across the printing line of the platen and also transversely of the path of edgewise movement of the frame into and out of a position in which a segment of the platen including the printing line is embraced within the frame.



1,943,429
FASTENING-INSERTING MACHINE
George Goddu, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application October 8, 1931. Serial No. 567,658
10 Claims. (Cl. 1—30)

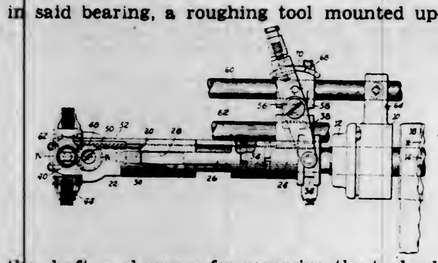


1. A machine for inserting fastenings having, in combination, an awl arranged for work penetrating and work feeding movements, means for operating the awl including a connection arranged to yield when the awl strikes an excessive resistance, and means for imparting to the awl a positive movement of retraction between its work penetrating and feeding movements.

1,943,430
ROUGHING MACHINE FOR SHOE PARTS
George Goddu, deceased, late of Winchester, Mass., by Isabelle W. Goddu, executrix, Winchester, Mass., assignor to United Shoe Machinery Corporation, Boston, Mass., a corporation of New Jersey
Application February 23, 1933. Serial No. 657,983
7 Claims. (Cl. 69—1)

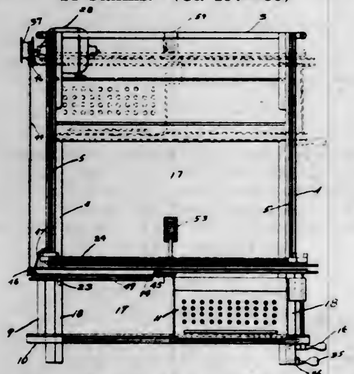
1. A roughing machine for shoe parts, comprising a bearing, a rotatable shaft journaled

in said bearing, a roughing tool mounted upon



the shaft, and means for reversing the tool relatively to the shaft.

1,943,431
MOTOR RETURN MECHANISM FOR TYPEWRITERS
Frederick P. Gorin, Seattle, Wash., assignor, by mesne assignments, to Elliott-Fisher Company, a corporation of Delaware
Application February 11, 1926. Serial No. 87,699
14 Claims. (Cl. 197—66)



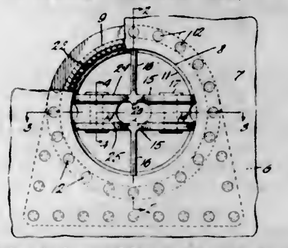
14. In a machine of the class described, a platen, a carriage movable both longitudinally and transversely thereof, and means for moving the carriage in both directions, including a single connecting member extending between the motor and carriage.

1,943,432
ARMATURE CONSTRUCTION FOR DYNAMO-ELECTRIC MACHINES
Hugo Grob, Berlin, Germany
Application October 3, 1930, Serial No. 486,185, and in Germany October 4, 1929
3 Claims. (Cl. 171—228)



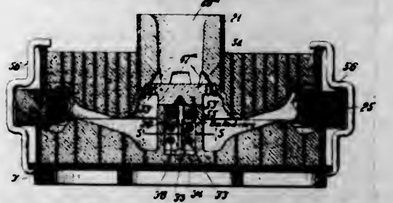
1. In a dynamo electric machine wherein a rotatable armature core with its associated commutator is rotated at a variable speed in a suitable magnetic field, the combination with said armature core of windings on said core and means for reducing the effect of cross-flux produced by said armature windings and hence for reducing commutator sparking, said means including slots in said core extending in a general radial direction for receiving therein said windings, and said windings being of uniform thickness, the distance between the uniformly thick armature windings within a slot and the walls of the slot increasing in a direction from the base of the slot toward the periphery of said armature core whereby the reluctance of the magnetic path of said cross-flux is proportionally greater and the cross-flux correspondingly more reduced as the outermost end of the armature slot is approached.

1,943,433
FAIRLEAD FOR CABLES AND THE LIKE
Henry Edric Heighton, Port Colborne, Ontario, Canada, assignor to Port Colborne Iron Works, Port Colborne, Ontario, Canada
Application July 27, 1932. Serial No. 625,176
9 Claims. (Cl. 254—190)



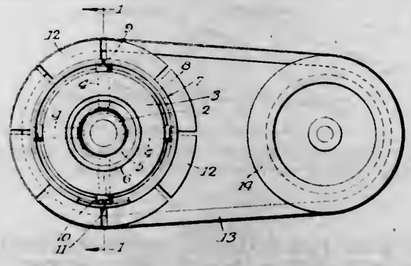
2. A fairlead for cables, ropes and the like, comprising a support, a housing rotatably mounted within said support, a pair of cable-guiding sheaves carried by said housing and arranged at opposite sides and spaced from the center of rotation of said housing, and means extending into the space between said sheaves and closer to said center than the faces of said sheaves, whereby a cable will be directed into either of said sheaves when said cable is drawn taut.

1,943,434
APPARATUS FOR MOLDING CAST WHEELS
Ralph C. Hempstead and Joseph W. Marshall, Milwaukee, Wis.
Application January 29, 1931. Serial No. 512,016
6 Claims. (Cl. 22—131)



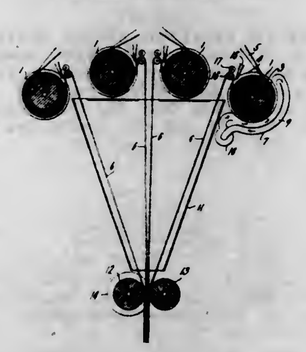
1. In car wheel casting apparatus provided with a wheel-forming annular chamber, wheel-hub forming means comprising a vertically disposed centering anchor member arranged centrally in the bottom of said chamber and having a vertically disposed body terminating at top in a centering tip and provided with a central bore and gas passages in the body sides communicating with the bore, said member having radially disposed wing portions adapted to receive green sand therebetween to provide a hub core, and a baked core adapted to rest on the sand core and provided on its bottom with a socket adapted to receive the centering tip of the anchor member and held thereby, the baked core at its perimeter being formed to provide an outwardly and downwardly sloping pouring passage disposed in a circumferential plane beyond the wheel hub green sand core and said anchor member.

1,943,435
EXPANSION PULLEY
Jacob R. Hertenstein, Nashville, Tenn., assignor to Nashville Machine and Supply Company, Nashville, Tenn., a corporation of Tennessee
Application June 25, 1932. Serial No. 619,177
4 Claims. (Cl. 64—8)



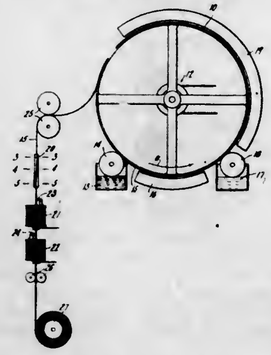
1. In an expansible pulley including a hub member and a series of radial pins slidingly mounted in said hub member and means for equally shifting said pins radially, a transversely split rim member connected with the outer ends of said radial pins and formed with a spring inner section, and two series of arcuate flange sections arranged in opposite divergent relation together forming a substantially continuous belt-receiving channel adapted to engage a V-shaped belt, whereby expansion of the spring inner section of said rim member will vary the effective diameter of the belt-receiving channel formed by said arcuate flange sections.

1,943,436
MANUFACTURE OF FILAMENTARY MATERIAL
Ernest Hopkinson, New York, N. Y., assignor to National India Rubber Company, Providence, R. I., a corporation of Rhode Island
Application December 23, 1930, Serial No. 504,237
Renewed August 24, 1933
8 Claims. (Cl. 18—54)



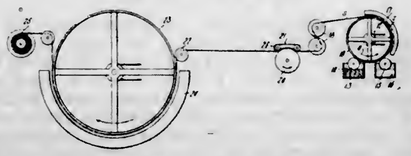
1. Process for making rubber thread which comprises depositing a rubber dispersion in separate grooves, withdrawing moisture from the separate deposits, removing the deposits in the form of filaments, and forming a thread by superposing and compacting said filaments.

1,943,437
MANUFACTURE OF RUBBER THREAD
Ernest Hopkinson, New York, N. Y., assignor to National India Rubber Company, Providence, R. I., a corporation of Rhode Island
Application May 9, 1931. Serial No. 536,194
5 Claims. (Cl. 117—57)



1. The method of manufacturing elastic thread, which comprises continuously forming a thin, narrow band of rubber dispersion on a moving surface, heating the band to coagulate and withdraw moisture from the dispersion, continuously folding the band into thread shape, and continuously spirally covering the formed thread with fibrous material.

1,943,438
MANUFACTURE OF RUBBER THREAD
Ernest Hopkinson, New York, N. Y., assignor to National India Rubber Company, Providence, R. I., a corporation of Rhode Island
Application May 9, 1931, Serial No. 536,195
Renewed December 3, 1932
4 Claims. (Cl. 18—54)

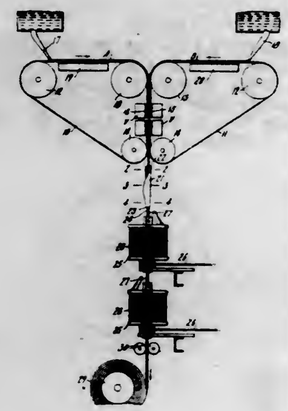


1. The method of manufacturing elastic thread which comprises forming a strip from an aqueous dispersion of rubber, folding the strip transversely, and rolling the folded strip to form a substantially round thread.

1,943,439
MANUFACTURE OF FILAMENTARY MATERIALS
Ernest Hopkinson, New York, N. Y., assignor to National India Rubber Company, Providence, R. I., a corporation of Rhode Island
Application June 15, 1931, Serial No. 544,431
Renewed June 17, 1933
15 Claims. (Cl. 18—54)

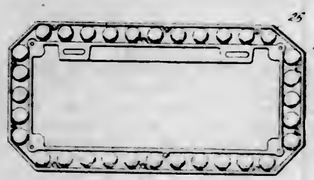
9. The method of manufacturing rubber thread, which comprises continuously forming a

plurality of strips from liquid rubber composition, associating said strips in plied formation



and vulcanizing the same, coiling the plied strip transversely of its length to form a thread, and covering said thread with fibrous material.

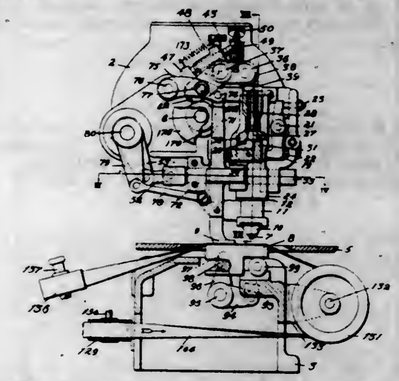
1,943,440
REFLECTING UNIT FOR VEHICLES
Joseph T. Herni, Newark, N. J.
Application October 3, 1930. Serial No. 486,100
3 Claims. (Cl. 88—1)



1. In a reflector unit, the combination of a frame adjacent an object to be illuminated, a reflector button thereon for locating the object by reflecting light from a remote source, and an angle reflector mounted adjacent said button and extending beyond it for reflecting light from said remote source on the object to illuminate the same, said reflector and strip having a wide angle of reflection for directing reflected light upon each other.

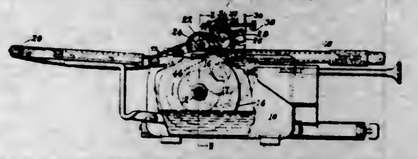
1,943,441
PERFORATING MACHINE
Frank Bycroft Keall, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 28, 1930, Serial No. 471,168, and in Great Britain August 15, 1929
33 Claims. (Cl. 164—88)

1. In a perforating machine having a punch and a work support constructed and arranged to cooperate therewith in punching the work, mechanism for feeding the work step by step between punching operations comprising means for moving the punch and the work support transversely one after the other, and means for maintaining



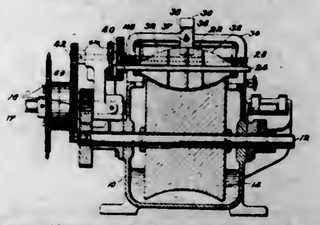
the work in engagement with the work support during feeding movements of the latter.

1,943,442
MACHINE FOR COATING SHEET-MATERIAL
Charles O. Kilham, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 10, 1930. Serial No. 451,451
7 Claims. (Cl. 12—80)



1. In a coating apparatus, coacting rolls one of which is concave and the other of which is convex whereby a piece of work having beveled edges passed between the rolls is distorted and one face of the piece of work is stretched or tensioned more than the opposite face, and means for supplying coating material to the concave roll to coat only that face of the piece of work which is under greater tension whereby the thin edges of the work, placed next to the concave roll, will be drawn into contact with the applying surface.

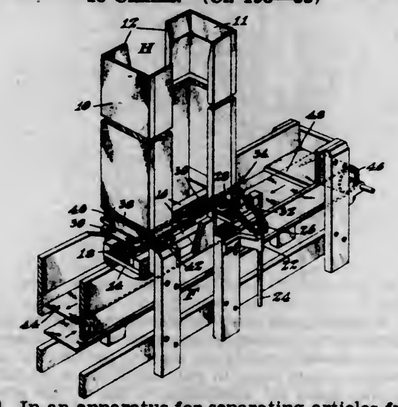
1,943,443
METHOD OF COATING SHEET MATERIAL
Charles O. Kilham, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Original application May 10, 1930, Serial No. 451,451. Divided and this application February 6, 1933. Serial No. 655,368
6 Claims. (Cl. 12—146)



1. The method of coating a piece of sheet material having opposite thin marginal portions

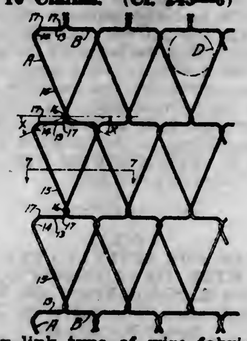
which consists in applying a coating progressively to one face of the material and simultaneously bending the sheet about a line substantially parallel to the direction of progress thereby to stretch one face more than the opposite face, the coating being applied to that surface which is under greater tension.

1,943,444
APPARATUS FOR SEPARATING ARTICLES
Cutler D. Knowlton, Beverly, Mass., assignor to Hoague-Sprague Corporation, Lynn, Mass., a corporation of Massachusetts
Application April 21, 1932. Serial No. 606,606
18 Claims. (Cl. 198—35)



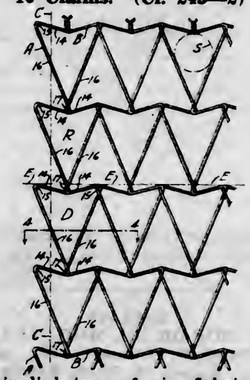
1. In an apparatus for separating articles from a series, means for supplying a series of articles, and continuously traveling means movable in cooperation with the supplying means in opposite directions and provided with an article-engaging surface, the same surface having separating engagement with the articles during movement in both directions.

1,943,445
RESILIENT TENSIONING WIRE FABRIC
Arthur A. G. Land, Chicago, Ill.
Application March 9, 1931. Serial No. 521,203
10 Claims. (Cl. 245—6)



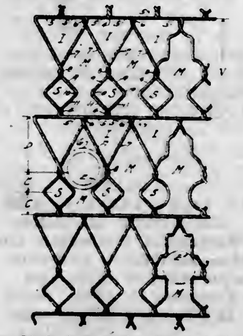
1. A chain-link type of wire fabric comprising zigzag flattened spiral strands extending transversely of the fabric and intertwined to form longitudinal rows of mesh; the strands so formed that the fabric presents longitudinal rows of zigzag mesh sides which are long and longitudinal rows of zigzag mesh sides that are shorter than the long sides, with each of the shorter mesh sides having intermediate its ends a bent portion.

1,943,446
TRANSVERSE EXPANDING WIRE FABRIC
Arthur A. G. Land, Chicago, Ill.
Application March 11, 1931. Serial No. 521,702
10 Claims. (Cl. 245—2)



1. A chain-link type of wire fabric comprising flattened spiral strands extending transversely of the fabric and intertwined to form longitudinal rows of mesh in which each mesh is so formed that the apex of two sides points in the same direction as the apex of the other two sides.

1,943,447
CHAIN LINK WIRE FABRIC
Arthur A. G. Land, Chicago, Ill.
Application March 26, 1931. Serial No. 525,459
12 Claims. (Cl. 245—6)

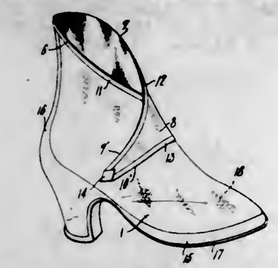


1. A chain-link type of wire fabric comprising consecutively intertwined spiral strands of zigzag formation in elevation, each presenting a row of alined bights at each longitudinal edge of the zigzag strand, the said formation being such that two consecutive strands border meshes presenting at least six interlocked bights, with the strand portions which extend from the interlocked bights at one end of each such mesh in alinement with each other longitudinally of the fabric.

1,943,448
WATERPROOF FOOTWEAR
Henrietta Porr Manville, Woodbury, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Co., Naugatuck, Conn., a corporation of Connecticut
Application February 25, 1933. Serial No. 658,479
7 Claims. (Cl. 36—7.3)

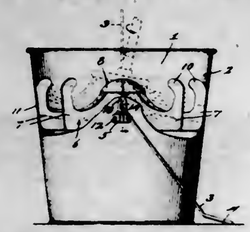
1. A waterproof gaiter of elastic material, its upper having a top opening the side edges of

which curve forwardly and downwardly in crossed relation to opposite sides of the gaiter,



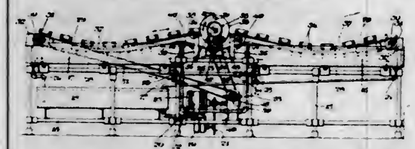
the overlapped portions of the upper below said crossing being connected only along their bottoms.

1,943,449
DUST MOP OR OIL MOP CLEANER
Jean H. Marshall, Chicago, Ill., assignor of one-half to Robert W. Muir, Barrington, Ill.
Application May 22, 1929. Serial No. 365,058
2 Claims. (Cl. 15—142)



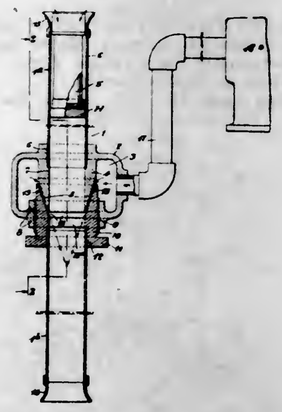
1. A device of the class described comprising a receptacle, a plurality of radially disposed curved blades removably set within the receptacle, and a cover cap over the central portion of the blades for the purpose above set forth.

1,943,450
APPARATUS FOR STAINING THE MARGINS OF SHEET BLANKS
Edward J. Molyneaux, Barberton, Ohio, assignor to The Diamond Match Company, Baltimore, Md., a corporation of Maryland
Application February 16, 1933. Serial No. 657,031
12 Claims. (Cl. 91—46)



1. An apparatus for staining the margins of sheet blanks, comprising dye-liquor containing means affording two elongated dipping zones, an endless carrier mounted to travel longitudinally of said zones and having a succession of spaced holders for compact bundles of vertically-disposed blanks, means whereby the carrier is deflected in its travel through each of said zones to lower and raise the holders and their contained bundles in respect to the level of the liquor, and mechanism for removing each succeeding bundle of blanks from its holder and returning it thereto in inverted position as the holder progresses from one zone to the other.

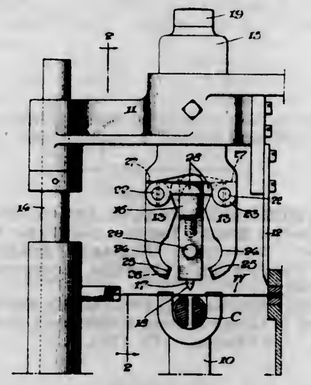
1,943,451
PNEUMATIC DISPATCH TUBE APPARATUS
John T. Needham, North Plainfield, N. J., assignor to General Conveyors Limited, Montreal, Quebec, Canada, a corporation of Canada
Application August 23, 1930. Serial No. 477,369
3 Claims. (Cl. 243—25)



3. A pneumatic pressure-vacuum dispatch tube apparatus for transmitting carriers from a sending station to a receiving station by suction and pressure, comprising in combination, a dispatch tube line open for admission of air at the sending station and open for discharge of air at the receiving station and constantly unobstructed from end to end except for said carriers, an injector device to inject air into said line at an intermediate point between the sending and receiving station and positively direct it along the line toward the receiving station, means to supply said injector with air under pressure for forcible injection into the line in the direction of carrier travel to create a low pressure in the line between the sending station and the injector and to create a high pressure in the line between the injector and the receiving station, and a carrier forming a partition fitted in the dispatch tube and substantially filling it crosswise to constitute a freely movable abutment to first partition the tube between the sending station and the injection point and be subject to the suction created by the injection to impel it forward to the injector and to then partition the tube between the injector and the receiving station and be subject to the pressure of the injection thrust to impel it forward from the injector toward the receiving station.

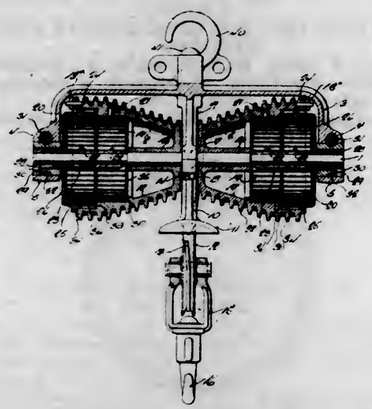
1,943,452
MECHANISM FOR APPLYING REENFORCING WIRE TO CLOTHESPINS
John R. Nolan, New York, N. Y.
Application September 30, 1932
Serial No. 635,485
3 Claims. (Cl. 140—102)

1. Mechanism for bending reenforcing wire about a clothespin, comprising two associated members independently reciprocable longitudinally of each other, normally-open wire-bending fingers supported by one of said members to extend longitudinally of and embrace the adjacent portion of the other member, said fingers having acting end portions, means limiting the outward movement of the fingers to enable the said end portions in the first part of the active stroke of the fingers to hug a clothespin and thereby bend the opposing wire into U-form and against the opposite sides of the clothespin, and



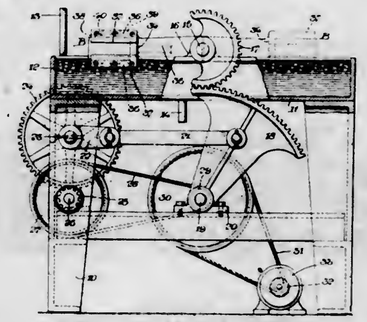
co-acting means on the fingers and on said adjacent portion of the other member for forcibly closing the fingers during the remaining part of the active stroke to draw the wire uniformly into close encircling relation to the clothespin.

1,943,453
BALANCER
Reinhold A. Norling, Aurora, Ill., assignor to Independent Pneumatic Tool Co., Chicago, Ill., a corporation of Delaware
Application March 16, 1931. Serial No. 523,168
5 Claims. (Cl. 242—107)



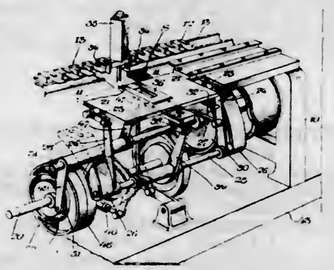
5. In a counter-balance of the character described, a reel adapted to have a cable wound thereon, and spring means for turning the reel to wind the cable thereon, said reel having its cable carrying portion tapered or inclined to the axis of the reel in one part and substantially parallel to the reel axis in another part to allow for a slight up and down movement of the cable when suspending a load from the last mentioned part without appreciable resistance offered by the spring means of the reel.

1,943,454
APPARATUS FOR STAINING THE MARGINS OF SHEET BLANKS
Michael Paridon, Barberton, Ohio, assignor to The Diamond Match Company, Baltimore, Md., a corporation of Maryland
Application August 31, 1932. Serial No. 631,120
12 Claims. (Cl. 91—46)



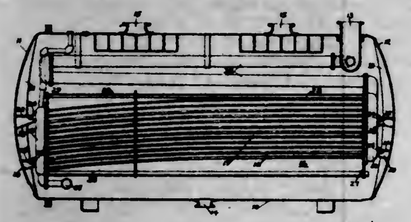
1. An apparatus for staining the margins of sheet blanks, comprising a tank to contain dye liquor, a holder to support a pack of blanks, and means for rocking said holder through a vertical arc to present the respective lower and upper edges of the supported blanks in alternation to the liquid contents of the tank, and substantially parallel to the level of said contents, to stain the margins of the blanks without staining the intermediate portions of the blanks.

1,943,455
MACHINE FOR MAKING BOOK MATCHES
Michael Paridon, Barberton, Ohio, assignor to The Diamond Match Company, Baltimore, Md., a corporation of Maryland
Application February 16, 1933. Serial No. 657,024
4 Claims. (Cl. 93—2)



1. In a book-match machine, the combination with match-strip cutting and match-card seting elements movable in intersecting paths in timed relation to each other, and means including connections for operating the setting element, said setting element having an abutment portion, of a member projecting into the path traversed by the abutment portion, and means for independently reciprocating said member in the same direction as the setting element.

1,943,456
HEAT EXCHANGE APPARATUS
John A. Potter, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 17, 1933. Serial No. 666,579
9 Claims. (Cl. 257—236)



1. In apparatus of the character described, a tube bundle including tubes and boxes connected to the ends thereof and means for resisting relative spreading of the boxes due to tube expansion including a shell encompassing the bundle and having end covers disposed in abutting relation with respect to the boxes.

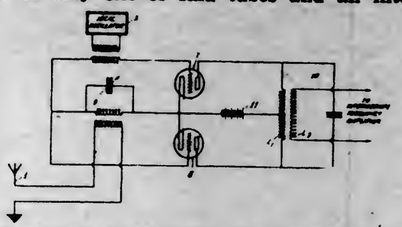
1,943,457
SHOE FINISHING TOOL
William A. Reed, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application March 26, 1929, Serial No. 350,081, and in Great Britain June 7, 1928
2 Claims. (Cl. 51—194)



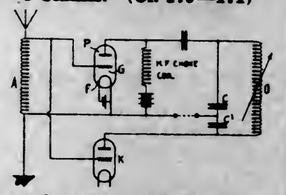
1. A yieldable support for a finishing cover of a shoe finishing tool comprising a strip of flannel having its lateral edges folded to form the strip into a tube having two flat walls, one wall of the tube comprising the central portion of the strip and the opposite wall comprising the two lateral edges of the strip, the two walls of the tube being secured together and the two lateral edges of the strip being maintained in said folded position by stitching applied in a manner to maintain the full lengthwise elasticity of the strip.

1,943,458
SUPERHETERODYNE FREQUENCY CHANGING CIRCUITS
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 19, 1930. Serial No. 429,522
5 Claims. (Cl. 250—20)

1. In a superheterodyne receiver a frequency changing circuit comprising a pair of electronic tubes, push-pull output circuits therefor, input circuits for said tubes including a common portion, a source of high frequency signal energy, a source of heterodyning frequency energy, means for impressing energy from one of said sources across the common portion of the input circuits of both tubes whereby energy from said source affects both tubes in phase consonance, means for impressing energy from the other of said sources across a portion of the input circuit of only one of said tubes and an intermediate frequency amplifier differentially coupled to the push-pull output circuit of said tubes.

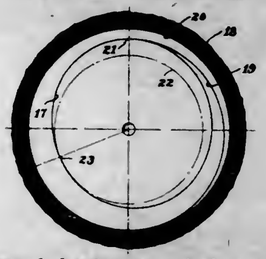


1,943,459
THERMIONIC VALVE CIRCUITS
Henry Joseph Round, London, and Peter William Willans, Towcester, England, assignors to Radio Corporation of America, a corporation of Delaware
Application February 2, 1924, Serial No. 690,220, and in Great Britain February 5, 1923
6 Claims. (Cl. 179—171)



1. The combination with a three electrode valve of a circuit connected to the anode and containing two condensers, a connection from the filament to a point between the said condensers, a circuit connected to the grid and a capacity inserted between the two circuits to balance the capacity between the grid and anode of the valve.

1,943,460
ECCENTRIC CONTROL GROOVE FOR RECORDS
Harold F. Stose, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 28, 1932. Serial No. 614,079
11 Claims. (Cl. 274—42)

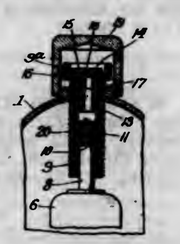


1. A record having a spiral sound groove adapted to be traversed by a reproducing stylus and a supplementary control groove cooperatively associated with said sound groove, said control groove comprising a substantially oval-shape groove eccentrically arranged with respect to the center of said record and adapted to equalize the lateral forces of said groove on said reproducing stylus throughout a cycle of revolution.

1,943,461
CELLULOSE ETHER AND METHOD OF MAKING SAME
David Traill and Alfred Stoyell Levesley, Saltcoats, Scotland, assignors to Imperial Chemical Industries, Ltd., a corporation of Great Britain
No Drawing. Application February 18, 1931, Serial No. 516,827, and in Great Britain April 16, 1930
9 Claims. (Cl. 260—152)

1. Process of reducing the viscosity of a cellulose ether comprising treating the ether with a dilute acid from the group consisting of hydrochloric, oxalic, acetic, formic, sulphuric, and phosphoric acids at a pressure of 10–75 pounds per sq. in. and a temperature of 115–160° C. for not substantially over one hour.

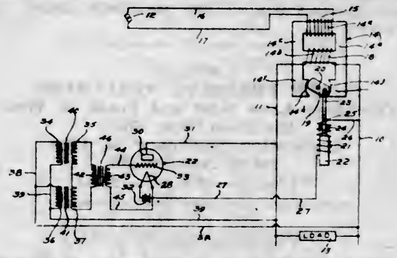
1,943,462
AIR VALVE
Frederick H. Tweed, Chicago, Ill.
Application August 1, 1929. Serial No. 382,714
2 Claims. (Cl. 137—122)



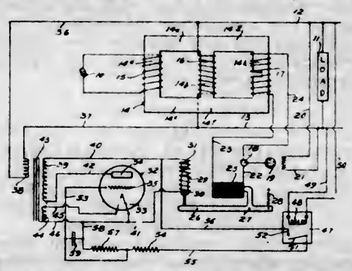
1. A valve comprising a casing, an outlet piece connected with said casing and having a passageway extending therethrough, provided with two valve seats, a valve member projecting into said passageway and being provided with a face adapted to engage a seat on the outlet piece, a hollow valve piece closed at the upper end projecting into said outlet piece and provided with a face which engages a second seat on said outlet piece, the passage in said outlet piece being enlarged at its upper end, said valve piece having an enlarged upper end which is received into the upper enlarged portion of the passageway in said outlet piece, said valve piece adapted to be moved to its open or closed positions by the difference in the pressure of the air on the opposite ends thereof.

1,943,463
SYSTEM AND APPARATUS FOR REGULATION
Louis H. Von Ohlsen and Frank W. Godsey, Jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application January 13, 1931. Serial No. 508,472
20 Claims. (Cl. 171—119)

1. In apparatus of the character described, in combination, a source of alternating current, a load, a transformer interposed between said source and said load and having means for varying the flux linkage between its windings, means responsive to departures from intended value of a function of the energy supplied said load for producing a potential in one direction and responsive to departures in opposite direction for producing a potential in opposite direction, and means responsive to directional changes in said potential for controlling said first-mentioned means.



1,943,464
SYSTEM AND APPARATUS FOR REGULATION
Louis H. Von Ohlsen and Frank W. Godsey, Jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application January 13, 1931. Serial No. 508,473
17 Claims. (Cl. 171—119)



1. In apparatus of the character described, in combination, a source of alternating current and a work circuit and a transformer interposed therebetween, said transformer having electromagnetic means for affecting the ratio of transformation of said transformer, a compressible carbon pile for controlling said electromagnetic means, a winding for controlling the pressure on said carbon pile, an electronic conduction device for affecting the energization of said winding, a contactor for affecting the conductivity of said device, and means responsive to changes in a function of the output of said source for controlling said contactor.

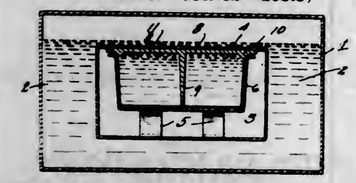
1,943,465
LOOSE LEAF BINDER
Richard M. Watson, Detroit, Mich.
Application March 23, 1931. Serial No. 524,513
7 Claims. (Cl. 129—24)



4. A loose leaf binder comprising in combination a back, a two piece base member comprising an attaching member secured to the binder adjacent the back and a shell extending substantially the length of the binder and having inturned portions and apertures formed in said inturned portions, and lug members carried by said attaching member and projecting through said apertures and directly contacting with said

inturned portions to clamp the same in position, the exposed portions of the shell above said apertures and lug members being imperforate.

1,943,466
SHARP FREEZING STRUCTURE
Constance Lane West and Frank R. West, Highland Park, Mich.
Application November 20, 1929
Serial No. 408,588
9 Claims. (Cl. 62—108.5)



1. The method of accelerating the freezing of liquids in sharp freezing containers of the type having a sharp freezing chamber for receiving the container, which comprises positioning the container into contacting relation with the upper wall of the chamber, resiliently holding the container against said top wall and allowing a portion of the expanding frozen liquid to contact with said top wall whereby the container is forced away as a unit from said top wall due to said expanding action.

1,943,467
PHARMACEUTICAL PREPARATION
Rudolph S. Bley, Washington, D. C.
No Drawing. Application February 8, 1932
Serial No. 591,755
18 Claims. (Cl. 167—93)

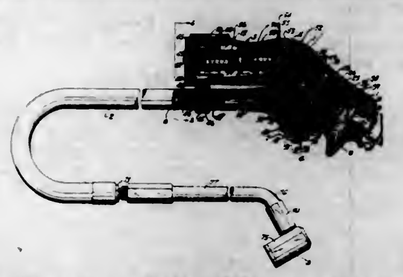
1. An antiseptic dentifrice, which does not deleteriously affect animal tissue comprising final reaction products of organic acids with hydroxybenzenes and an enzyme in active state.

1,943,468
WAX EMULSION COATING, AND COATING PROCESS
Walter A. Bridgeman and John Alan Schade, Owego, N. Y., assignors to The Wilbur White Chemical Company, Owego, N. Y., a corporation of New York.
No Drawing. Application November 22, 1932
Serial No. 643,950
14 Claims. (Cl. 99—8)

11. Process of providing a natural food product with a lustrous protective waxy coating, which consists in passing the natural food product into and out of a bath of an emulsified composition consisting essentially of a waxy component including carnauba wax 5 to 15%, emulsifying agent 1 to 4%, resinous material 2 to 6% and water the remainder, said bath showing at 20° C. a surface tension of from about 45 dynes to about 33 dynes per centimeter, and thereafter draining and drying the so-treated product.

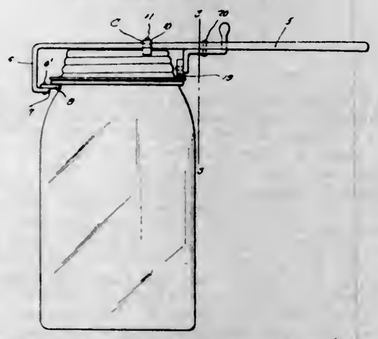
1,943,469
AIR PRESSURE GAUGE
Otto C. Druge and Daniel O. Druge, Oakland, Calif.
Application March 24, 1930. Serial No. 438,332
9 Claims. (Cl. 73—111)

1. In an air pressure gauge, a casing having a sight opening therein, a cylinder in the casing and into which air is introduced at one end thereof, a plunger including a piston reciprocably mounted in the cylinder and engaging the walls thereof, means holding said plunger against rotation in said cylinder, a spring against the action of which said plunger moves upon introduc-



tion of said air into the cylinder, a rotary gauge member visible through the sight opening, a tubular shaft fixed for rotation with the gauge member and which telescopes said plunger, and means of connection between the shaft and said plunger providing for rotation of the shaft on reciprocation of said plunger.

1,943,470
FRUIT JAR SEALER AND TIGHTENER
Walter Fabrick, Elgin, Ill.
Application February 2, 1932, Serial No. 590,443
Renewed October 18, 1933
3 Claims. (Cl. 81—15.1)



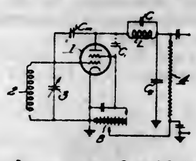
1. A device of the class described including an elongated handle bar merging at one end into a depending extension which terminates in an ear underslung with respect to the bar, an arcuate plate fixed to the ear, a lever rockable under the bar, a wheel rotatable on the lever, said lever having a depending extension at one end with a trunnion thereof on which the wheel is rotatable, and at the other end provided with an oblique extension terminating in an upstanding handle.

1,943,471
DYNATRON CIRCUIT
Paul O. Farnham, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a corporation of New Jersey
Application January 15, 1932. Serial No. 586,937
13 Claims. (Cl. 250—27)

1. Apparatus for producing a negative resistance effect between two terminals, comprising a vacuum tube and means for impressing on the elements thereof potentials effective to impart a

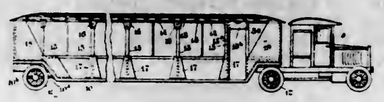
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negative plate resistance to said tube, a capacitive load in the plate circuit of said tube, a capacity coupling the plate and control grid of said tube,



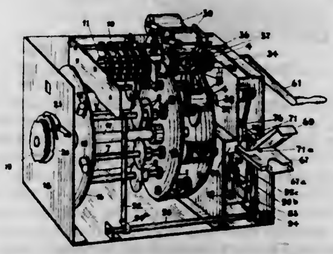
a connection from one of said terminals to the control grid of said tube, and a connection from the other terminal to the cathode of said tube.

1,943,472
BUS
Charles H. Fraser, Columbus, Ohio
Application February 20, 1930. Serial No. 429,849
2 Claims. (Cl. 296—28)



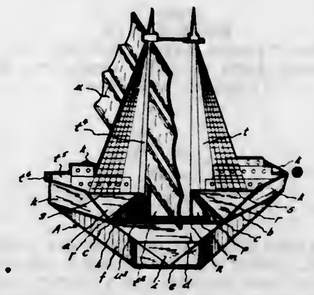
1. A bus having supporting wheels at its ends, the frame of said bus including a trussed roof frame, a floor frame dropped from above to a level below the tops of and between the supporting wheels, and side gusset plates at the terminal portions only of the bus connecting the ends of the roof and floor frames at the sides thereof and extending across the angle between the floor above the supporting wheels and the dropped floor and upright beams between the gusset plates suspending the floor from the roof truss frame.

1,943,473
CASH FRANKING MACHINE
Wilhelm Friedrichs, Berlin, Germany
Original application August 8, 1922, Serial No. 580,450, and in Germany August 10, 1921. Divided and this application December 20, 1928. Serial No. 327,396
12 Claims. (Cl. 235—101)



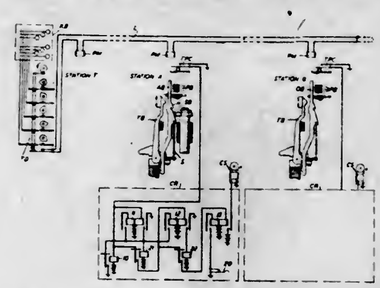
1. In a franking machine comprising means for applying franks of various values to postal matter, a totalizer, means for differentially actuating said totalizer in accordance with the values of franks applied, means controlled by said totalizer for locking the machine against further use when said totalizer has reached a predetermined total value, means for unlocking the machine adapted to be rendered operative by insertion of a separable device therein from outside of the casing of the machine, and means for altering said separable device while it is in the machine to show its use.

1,943,474
TOY BOAT
Victor Goldberg and Max L. Goldberg, Baltimore, Md.
Application November 28, 1932
Serial No. 644,730
21 Claims. (Cl. 46—37)



1. A toy boat comprising fore and aft decks, laterally inclined sides between said decks terminating in a keel, vertical sides beneath each of said decks and in the same plane with the longitudinal axis of said boat, transverse walls connecting said decks and vertical sides with said laterally inclined sides, a longitudinal separable insert positioned between said vertical sides, and a transverse separable insert interconnected with said longitudinal insert and positioned adjacent said transverse walls.

1,943,475
SYSTEM FOR SELECTIVE CALLING OF TELEGRAPH STATIONS
Roger K. Gurley, Chatham, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application June 14, 1932. Serial No. 617,210
6 Claims. (Cl. 178—2)



1. A selective signaling system comprising a signal transmitter, a line circuit, a plurality of receiving stations connected by said line circuit to said transmitter for simultaneous operation, each of said stations including a receiving instrument having a plurality of operating elements individually selectable by different codes, a control circuit and a current source therefor, circuit closing contacts adapted to close said control circuit in response to the operation of a selected one of said elements, counting means operative in a plurality of successive stages and responsive to each closure of said control circuit to advance from one stage to the next, an operating device operatively associated with an

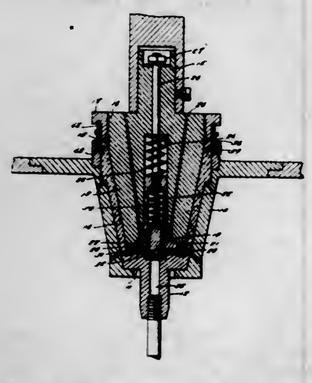
advanced stage of said counting means to place said station in a called condition, the control circuits at said stations being connected to contacts responsive to dissimilar operating elements for the selective calling of individual stations in response to different impulse series from said transmitter.

1,943,476
HEEL BRACE
Harry James Hagan, Roanoke, Va.
Application April 18, 1932. Serial No. 606,052.
2 Claims. (Cl. 36—76)



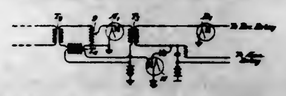
1. As a new article of manufacture, a shoe heel brace comprising a plate having a substantially rectangular end portion and a tapered end portion, the lateral edges of which merge into a point at the extremity of the plate; the rectangular end portion having spaced longitudinal ribs pressed therefrom whereby said end portion is laterally contracted and reduced in width beyond the normal width of the plate; said plate at the widest portion thereof being also provided adjacent its side edges with short longitudinal slits and bent to provide lugs projecting at right angles from the plate at opposite sides of the tapered end thereof; and strengthening ribs for the lugs struck out from the widest portion of the plate in substantial alinement with the first named ribs.

1,943,477
MOLDING MACHINE
Grant H. Haecredt, Edison, Ohio
Application July 14, 1932. Serial No. 622,538
4 Claims. (Cl. 25—24)



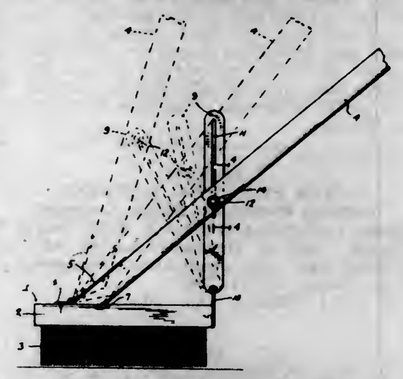
1. A device of the class described comprising a mold, a rotary plunger movable axially into and out of the mold, a top forming collar movable with the plunger and provided adjacent its lower edge with an annular rib provided on diametrically opposite sides of the collar with slots, retaining plates removably secured to said rib and extending across said slots, and knives slidably arranged in said slots, and spring means bearing on top of the knives to yieldably project the same below said rib and retaining plates.

1,943,478
TRANSMISSION LEVEL CONTROL IN TELEGRAPH SIGNALING SYSTEMS
Joseph Herman, Westfield, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application August 23, 1930. Serial No. 477,366
8 Claims. (Cl. 178—44)



1. In a carrier current signaling system, a transmission line equipped for signaling on a plurality of transmission channels, a receiving station therefor comprising a detector for detecting the carrier frequency wave on one channel, an unbalanced hybrid coil associated with the line and transmitting signal impulses of amplitude proportional to its unbalance, and means for changing the unbalance as the transmission level of the line changes to reduce changes in the level of the received signals, said means being controlled by the slowly changing bias of the detector grid due to change in transmission level.

1,943,479
BRUSH
Lester L. Hesson, Berne, Ohio
Application March 20, 1933. Serial No. 661,852
1 Claim. (Cl. 300—11)



An adjustable handle for an implement, comprising a handle hingedly secured to the forward and upper portion of the implement, said handle having a longitudinally extending slot therein, a brace hingedly connected to the implement at a point rearwardly of said handle, said brace extending thru the slot in the handle and having a longitudinal slot therein, the slot in the handle being substantially greater in length than the width of said brace, a bolt mounted transversely in the handle and extending through the slot in the brace, and a nut threaded on the bolt for coaction with said bolt for frictionally clamping the handle on the brace.

1,943,480
AUTOMATIC SPRINKLER
Willis K. Hodgman, Jr., Taunton, Mass.
Application September 16, 1932
Serial No. 633,488
12 Claims. (Cl. 169—38)

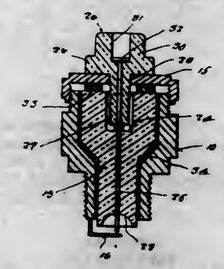
12. A releasing device having opposed abutments; a strut between said abutments compris-

ing a frangible vessel of non-corrosive material having an opening presenting a flat end surface and containing a predetermined amount of an expansible fluid, a stopper of non-corrosive material presenting a flat surface fitting against the flat end surface of the vessel and hermetically



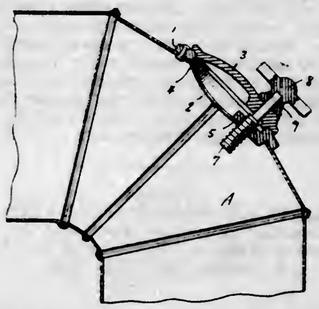
closing the vessel; the said fluid acting when the stopper and vessel are held tightly closed by pressure exerted between said abutments longitudinally of the vessel and stopper and the pressure of the fluid has been raised to a predetermined degree, to expand, burst and scatter the vessel.

1,943,481
SPARK PLUG
Lara J. Jones, Crowley, La.
Application July 17, 1931. Serial No. 551,495
1 Claim. (Cl. 123—169)



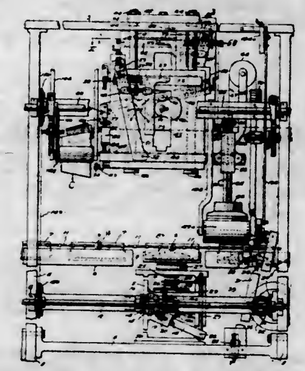
A spark plug comprising a metallic shell exteriorly screw-threaded at one end for reception in a spark plug opening, a beveled shoulder within the shell, an insulator in the shell having a bevelled shoulder cooperable with the first mentioned bevelled shoulder, a gasket between and separating the shoulders and spacing the insulator from the shell, a cap exteriorly threaded on the outer end of the shell for cooperation with the adjacent end of the shell, a second gasket between and separating the adjacent end of the insulator and the cap and enabling forcibly holding the insulator in position in the shell and compressing the gaskets by screwing on the cap, electrode means traversing the insulator and having a portion exposed at the inward end thereof, and second electrode means on the inward end of the shell in spark-gap forming relation to the said electrode means, and supply conductor connecting means comprising an insulated body having a reduced portion adjustably threadable through an opening provided in the cap and formed in its outer end with a conductor receiving opening, conductive means traversing the insulated body and its reduced portion and exposed within the opening for contact with a supply conductor inserted therein and extending beyond the reduced portion for cooperation with an outer portion of the said electrode means in contact and in different spark-gap forming relations.

1,943,482
CLEANOUT FOR STOVEPIPES OR ELBOWS
George Madro, Cleveland, Ohio
Application May 31, 1932. Serial No. 614,529
1 Claim. (Cl. 126—310)



In a device of the class described, a seat forming member having an opening therein, an inwardly offset ear connected with said member and extending into the opening and having a threaded opening therein, a cover for closing the opening of the seat forming member and having a rib thereon for engaging the internal wall of the seat forming member, said cover having a smooth hole passing therethrough adjacent an edge part thereof, a shaft having a reduced smooth portion passing through the hole, the inner part of the shaft being enlarged and threaded and passing through the hole in the ear, the junction of the enlarged part of the shaft with the smooth part forming a shoulder for engaging the cover to lift the same when the shaft is turned in one direction, and a knob connected to the outer end of the shaft for rotating the same and for holding the cover on the smooth part of the shaft.

1,943,483
WARE TRANSFERRING APPARATUS
William J. Miller, Swissvale, Pa.
Application July 2, 1927. Serial No. 203,186
23 Claims. (Cl. 214—1)

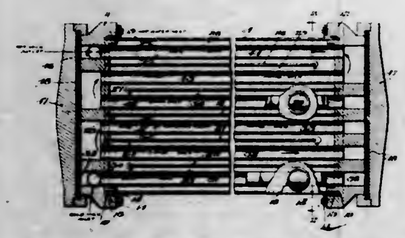


7. Apparatus of the class specified comprising, in combination, a main frame, mold conveying means, chambered ware pick-up devices, ware conveyors, means for driving said latter conveyors in timed relation with said mold conveying means,

valve means for admitting a fluid medium to said ware pick-up devices, and a means for imparting transfer movements to said pick-up devices, said means being adjustable while in operation to position said devices relatively to the mold conveying means and ware conveyors.

18. In an apparatus for handling fragile ware, a carriage, means for bodily reciprocating the carriage vertically, a ware pick-up device, and means for floatingly mounting the ware pick-up device on the carriage for substantially unresisted vertical movement relatively to the carriage, whereby the pick-up device may be gently moved into contact with the fragile ware to be handled.

1,943,484
HEAT EXCHANGE APPARATUS
Cornelius Mortensen, Louisville, Ky.
Application June 9, 1931. Serial No. 543,213
6 Claims. (Cl. 257—240)



1. A heat exchange device comprising a casing, a partition within said casing dividing the same into two separate compartments, means dividing each compartment into a series of passageways each extending from side to side and substantially from end to end of the compartment, a separate means for the supply of a heat exchange medium into one of the terminal passageways of each compartment, means for the delivery of the heat exchange means from the opposite end of the other terminal passageway of each compartment, means whereby the heat exchange mediums are required to circulate substantially throughout the length of each passageway of the related compartment in their flow from said inlet means to said outlet means, respectively, and series of communicating conduits in the passageways of each of said compartments through which a medium to be heated or cooled is adapted to be circulated.

1,943,485
SPACER FOR JOINTS IN WALL CONSTRUCTION
Herbert A. Osborne, Brookville, Pa.
Application July 20, 1932. Serial No. 623,609
5 Claims. (Cl. 72—103)



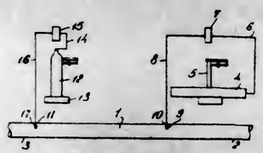
4. A spacer for the joints between the units of a wall, comprising a metal rod extending over the surface of a unit and having downwardly extending end portions projecting over the ends of the unit for positioning the rod on the unit and determining the depth of the mortar joint between the overlying and adjoining units of the wall.

1,943,486
PLANOGRAPHIC PRINTING BASE AND PROCESS OF PREPARING IT
Ulrich Ostwald, Wiesbaden-Biebrich, Germany, assignor to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany, a corporation of Germany
Application March 10, 1931, Serial No. 521,613, and in Germany March 14, 1930
11 Claims. (Cl. 95—5.4)



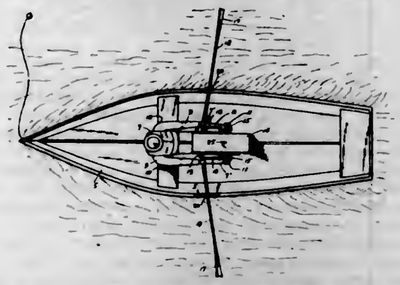
1. In the process of preparing planographic printing bases, the step which consists in using as printing bases sheets of cellulose esters capable of being saponified, producing the desired printing design being resistant to a saponifying agent upon that base and causing a saponifying agent to act upon the places of the printing base which are free from the printing design.

1,943,487
PROCESS OF CHLORINATING WATER
Edward D. Ruth, Lancaster, Pa., assignor to Howard J. Pardee, Long Island City, N. Y.
Application June 16, 1931, Serial No. 544,918
Renewed November 22, 1933
5 Claims. (Cl. 210—28)



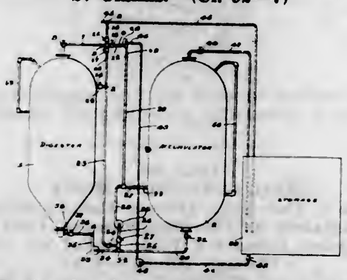
1. In the sterilization of contaminated liquids, the process which comprises introducing ammonia gas (anhydrous ammonia) into the liquid, and after a predetermined elapsed time subjecting the liquid to the action of chlorine.

1,943,488
TOY BOAT
Ralph B. Schlegelmilch, Flint, Mich.
Application June 1, 1933. Serial No. 673,918
1 Claim. (Cl. 46—40)



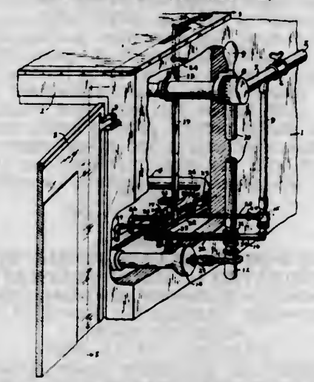
In a toy of the class described, a boat, a seat across the boat, a figure including a pair of legs fixed to the seat, a body swingably mounted between the legs, and arms pivotally mounted on the body, a rotating shaft, means for rotating the shaft, cranks on the shaft, oar locks rockable in the boat, oars rockably mounted in the oar locks, said oars including stems projecting through openings in the arms and the cranks, foot rests for said legs and clips on the legs to engage with the seat.

1,943,489
PROCESS AND APPARATUS FOR DIGESTING FIBROUS MATERIAL
Otto C. Schoenwerk, Chicago, Ill., assignor to Chemipulp Process, Inc., Watertown, N. Y., a corporation of New York
Application May 4, 1932. Serial No. 609,299
27 Claims. (Cl. 92—7)



1. In the chemical cooking of fibrous material, venting a relief fluid from a digester during the cooking period, circulating an acid liquor by pumping the same in an annular path, and introducing said relief fluid into the circulating liquor at the suction side of the pump.

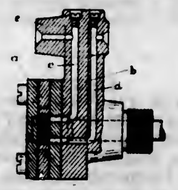
1,943,490
SAFETY GAS BURNER CONTROL
Conrad Schuck and George Layer, East Orange, N. J.
Application August 17, 1928. Serial No. 300,217
36 Claims. (Cl. 236—1)



1. A safety gas burner control comprising, an endless main burner having a series of regularly spaced burner ports formed therein said series of burner ports being separated by a space in said burner which is not provided with burner ports, a pilot burner adjacent one end of said burner ports, and means cooperating with the flames supported at the other end of said series of burner ports to control the flow of gas thereto.

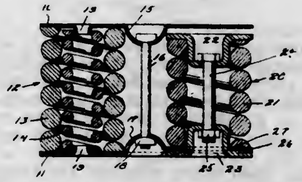
1,943,491
GEAR-WHEEL PUMP FOR ARTIFICIAL SILK SPINNING MACHINES
Fritz Sieper, Barmen-Langerfeld, Germany, assignor to the firm Barmer Maschinenfabrik A.-G., Barmen-Rittershausen, Germany
Application October 11, 1929, Serial No. 399,644, and in Germany October 25, 1928
2 Claims. (Cl. 103—126)

1. The combination with a main supporting member having a shaft bearing and having a plane face, said member having a journal bore extending perpendicularly from said plane face and opening through the back of the member and having an inlet port and an outlet port opening through the plane face; of a unitary pump adapted to be secured to and removed from the plane face of said member as a unit and including three plates of equal length and width, each of said plates being provided with alined bolt holes, one of said plates being adapted to rest against said plane face and having a shaft hole and inlet and outlet ports extending there-



through and registering with the corresponding openings in the main member, the second of said plates having an opening therein to receive a pump impeller and having the ports and shaft hole of the first plate opening thereinto, the third of said plates covering the second and being imperforate except for the bolt holes, a shaft extending through the bore of the main member and shaft hole of the first plate and provided with an impeller located in the opening of the second plate, and bolts passing through the bolt holes and screwed into the main member.

1,943,492
SNUBBED SPRING NEST
Thomas H. Symington, Baltimore, Md., assignor to T. H. Symington & Son, Inc., Baltimore, Md., a corporation of Maryland
Application August 5, 1930. Serial No. 473,268
14 Claims. (Cl. 267—4)



1. In a railway car truck cushioning mechanism, a spring nest comprising upper and lower caps, a plurality of standard spring units arranged between the caps for supporting normal loads, a modified spring unit located between the caps and adapted to become energized subsequently to the energization of the standard units, guide means at the lower end of the modified unit, separate and distinct from the lower cap, and means for interengaging said guide means with the lower cap of the nest in flush relation thereto for preventing relative displacement.

1,943,493
ELECTRIC SWITCH
Frank Taubner, Bronx, N. Y., assignor to Meteor Electric Corporation, New York, N. Y., a corporation of New York
Application March 23, 1929. Serial No. 349,298
2 Claims. (Cl. 200—67)

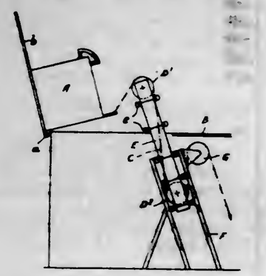
1. In a snap switch, parallel plates, a switch operating member pivoted on said plates, a U-shaped switch carrying member, pins on said

plates upon which said U-shaped member is pivoted, said U-shaped member having one arm bent outwardly with a slot in the bend for one of



said pins, and a tension spring connecting said switch operating member and said switch carrying member.

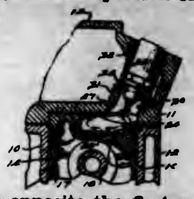
1,943,494
MEANS FOR TILTING A FURNACE OR OTHER APPARATUS
George Edward Taylor and Leslie Ellett Thompson, London, England, assignors to Ajax Electrothermic Corporation, Ajax Park, N. J., a corporation of New Jersey, and Ajax Electric Furnace Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application December 14, 1931, Serial No. 580,967, and in Great Britain December 18, 1930
9 Claims. (Cl. 214—130)



1. In furnace mechanism, a furnace, fixed pivotal mounting for the furnace, a flexible connection secured to the furnace, a pulley over which the flexible connection passes, means for pulling on the flexible connection to swing the furnace about its fixed pivot and means for moving the pulley bodily upward to a position above the fixed pivot, whereby the furnace may be tilted more than 90°.

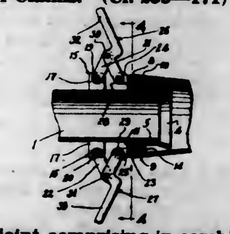
1,943,495
COMBUSTION CHAMBER FOR DIESEL ENGINES
Horace T. Thomas, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a corporation of Michigan
Application June 4, 1931. Serial No. 542,012
5 Claims. (Cl. 123—32)

1. In an internal combustion engine, of the compression ignition type in combination, a cylinder having a bore and an end wall, a piston slidable in said bore and having a closed end wall of substantially the same general contour as said end wall and adapted to closely approach said end wall at one end of its stroke, said piston having a relatively flat ovoid pocket formed in and substantially parallel to the plane of the head thereof eccentrically to the axis of said piston, that portion of the end wall of said pocket closest to said axis being reversely curved to form a lip overhanging the corresponding side of said pocket and providing a hot spot during engine operation, and that portion of said end wall



of said pocket opposite the first mentioned portion being outwardly and upwardly curved.

1,943,496
IRRIGATION PIPE JOINT
Lynden E. Thompson, Lompoc, Calif., assignor to Margaret T. Thornton, Lompoc, Calif.
Application January 2, 1932. Serial No. 584,410
4 Claims. (Cl. 285—171)



1. A pipe joint comprising in combination with a pair of pipes having outwardly flared conical end portions of reverse pitch telescoping one within the other, the outermost portion provided with an inwardly turned flange permitting the end of the adjacent section to be inserted therethru, a gasket held in said outermost portion against said flange for leakproof engagement with the flared portion of said other pipe, and toggle means secured to one of said pipes for engagement with the other pipe and operative for drawing said pipes into leakproof association.

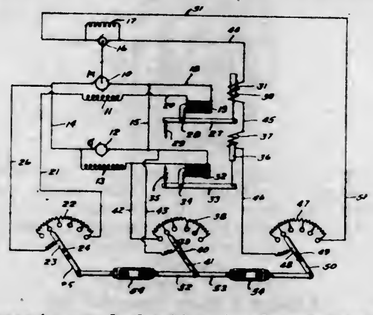
1,943,497
METHOD FOR PRODUCING FINELY DIVIDED HYDRATED CALCIUM SULPHATE
Foord von Bichowsky, Glendale, Calif.
No Drawing. Application March 19, 1932
Serial No. 600,075
2 Claims. (Cl. 23—122)

1. Method for producing finely divided hydrated calcium sulphate which consists in acting upon heating acicular hydrated calcium sulphate material with an aqueous solution of a sulphuric acid containing substance, in which solution the concentration of the free sulphuric acid does not exceed that of sulphuric acid of specific gravity 1.3, and then heating the acicular material with said acid solution until the acicular material disintegrates without, however, being appreciably dehydrated.

1,943,498
SYSTEM AND APPARATUS FOR ELECTRIC REGULATION
Louis H. Von Ohlsen, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application October 15, 1930. Serial No. 488,877
24 Claims. (Cl. 172—239)

1. In apparatus of the class described, in combination, a motor, a carbon pile affecting the

speed of said motor, a coil affecting said carbon pile, a generator supplying energy to said motor, a carbon pile for varying the voltage of said generator, a coil controlling said second carbon pile, a source of electrical energy responsive to



changes in speed of said motor for affecting the energization of said coils, a plurality of rheostats individually affecting the actions of said carbon piles and said coils, and means for conjointly affecting the setting of said rheostats.

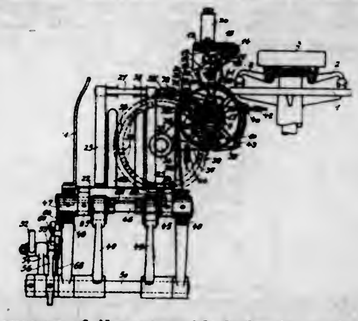
1,943,499
SOUND AMPLIFIER
Selden T. Williams, Woodbury, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application April 6, 1928. Serial No. 267,968
39 Claims. (Cl. 181—27)



1. A device of the class described comprising a diaphragm and a pair of horns loading opposite sides thereof, one of said horns comprising an amplifying passage formed between relatively flaring, similarly curved surfaces of revolution.

1,943,500
APPARATUS FOR HANDLING SHEETS AND THE LIKE
Alfred Winkler and Max Dunnebier, Neuwied, Germany
Application August 23, 1930, Serial No. 477,258, and in Germany October 2, 1929
8 Claims. (Cl. 93—93)

1. Apparatus of the character described for handling and stacking sheets and the like comprising an assembling member, means for delivering the sheets to such member, means for conveying the assembled sheets on said member, a toothed counting wheel operated by the delivery of the sheets to the said member, variable cam means on said wheel for controlling the



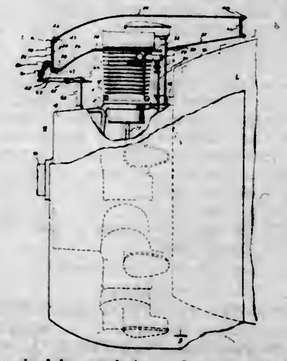
conveyance of the assembled sheets, and means for receiving the said sheets.

1,943,501
MANUFACTURE OF PAPER TUBES
Watson H. Woodford, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application November 15, 1929
Serial No. 407,581
2 Claims. (Cl. 93—94)

7. A paper tube for shot shells impregnated with a char-preventing substance and coated on its inner wall with a lacquer to prevent creeping of said substance into the contents of the tube.

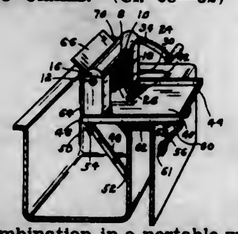
9. The method of rendering a paper shot shell tube waterproof and charproof which comprises first immersing the tube in a solution having char preventing and lacquer plasticizing properties, and subsequently dipping the tube in a solution comprising a lacquer base and a solvent, whereby a complete lacquer is formed on the tube surface.

1,943,502
INTERNAL COMBUSTION ENGINE
Lionel M. Woolson, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application December 12, 1929
Serial No. 413,462
7 Claims. (Cl. 244—31)



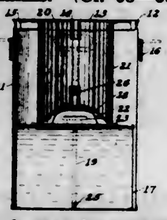
6. In an airship, an internal combustion engine, a hollow cowling for the engine, the interior of said cowling forming a manifold open to atmosphere, and means establishing communication between the manifold and the interior of the cylinders during their intake periods.

1,943,503
FOLDING CLOTHES WRINGER
John H. Adams, Seattle, Wash., assignor of one-half to Albert C. Phillips, Seattle, Wash.
Application February 27, 1932. Serial No. 595,624
3 Claims. (Cl. 68—32)



1. The combination in a portable wringer with a platform forming a base and provided with flanged sides, of a pair of diagonal legs, brackets fixed at the underside of the base and pivot joints in said brackets for said legs, said brackets having stop walls for the legs, a pair of resilient arms mounted on the underside of the base, and pads mounted on adjoining faces of the free ends of the legs and arms, for the purpose described.

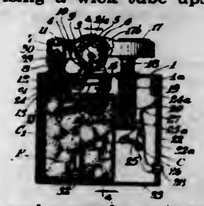
1,943,504
DRY CLEANING MACHINE
Lossie E. Andersen, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application June 30, 1932. Serial No. 620,144
5 Claims. (Cl. 68—38)



1. A portable home dry cleaning machine, comprising: a vessel; a removable closure for said vessel, said closure and said vessel forming a chamber; an agitating device; a handle and operating rod for removable attachment to said agitating device, said agitating device, handle and operating rod all completely disposed within said chamber; and means located in said closure to cooperate with said operating rod to permit the operation of said agitating device by means of said handle from outside said chamber; said agitating device, operating rod and handle when attached together having a maximum dimension in excess of the inside vertical dimension of said chamber, the minimum distance from the bottom of said agitating device, when attached to said operating rod and handle, to the bottom of said handle being slightly less than the vertical distance from the inside bottom of said chamber to the outside top thereof.

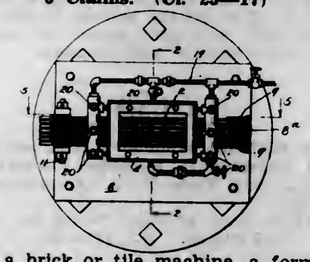
1,943,505
PYROPHORIC LIGHTER ARRANGEMENT
Louis V. Aronson, Newark, N. J., assignor to Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application April 11, 1930. Serial No. 443,269
5 Claims. (Cl. 67—7.1)

5. In combination, a main casing, a plate detachable from said main casing and forming the top wall thereof, means interiorly of said main casing for retaining said plate thereon, pyrophoric flame-producing mechanism both above and below said plate and carried thereby, said mechanism comprising a wick tube upstanding from



said top wall, and a supplementary fuel-containing casing insertable into said main casing through the open top thereof and carrying a wick which extends through said wick tube.

1,943,506
BRICK MACHINE
Edward S. Baer, Streator, Ill.
Application October 16, 1931. Serial No. 569,301
6 Claims. (Cl. 25—17)



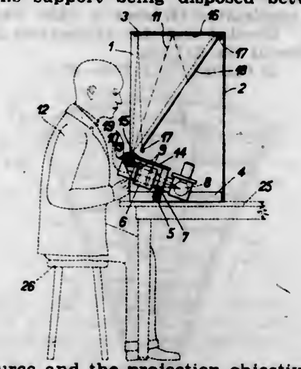
1. In a brick or tile machine, a forming die through which a clay column is extruded, a cutter which sub-divides the column at a plane parallel to its direction of movement, a slicker die through which said column passes from the cutter, and means for applying lubricant to the surface of the clay after it passes the cutter and before it leaves the slicker die, and means for separately regulating the supply of lubricant to each separate surface of the clay column.

1,943,507
PROCESS OF PRODUCING CELLULOSE ESTERS
Henri Louis Barthelemy, Milan, Italy, assignor to Ruth Aldo Company (Inc.), New York, N. Y., a corporation of New York
No Drawing. Application July 28, 1927, Serial No. 209,166, and in France December 28, 1926
6 Claims. (Cl. 260—101)

1. The process for the esterification of cellulose by means of organic acid anhydrides; consisting in effecting the esterification in the presence of organic acids as solvents and a complex catalyst consisting of a strong mineral acid and an oxidizing agent for the cellulosic material.

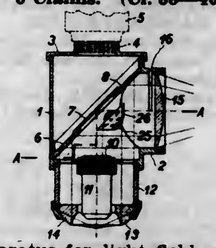
1,943,508
INSTRUMENT FOR RAPID EXAMINATION OF TRANSPARENT MICROSCOPIC PREPARATIONS
Walther Bauersfeld and Max Hübschmann, Jena, Germany, assignors to firm Carl Zeiss, Jena, Germany
Application March 5, 1932, Serial No. 596,934, and in Germany March 10, 1931
2 Claims. (Cl. 88—24)

1. An instrument for rapid examination of transparent microscopic preparations, containing a light source, a projection objective, a projection screen, the axis of the projection objective being inclined away from a vertical direction and towards the projection screen, a support for the preparations to be examined, this support being disposed between the



light source and the projection objective, and a horizontal reflector provided above the projection objective, the projection surface of the projection screen being approximately parallel to the rear exterior rays of the projection ray pencil striking the reflector.

1,943,509
APPARATUS FOR ILLUMINATING MICROSCOPIC OBJECTS
Walther Bauersfeld, Jena, Germany, assignor to firm Carl Zeiss, Jena, Germany
Application September 26, 1932, Serial No. 634,944, and in Germany September 28, 1931
3 Claims. (Cl. 88—40)



1. An apparatus for light-field and dark-field illumination of microscopic objects with incident light, comprising a partly reflecting plate, a plane annular reflector, a converging optical system adapted to surround a microscope objective and coacting with the annular reflector, the said plate and the annular reflector being rigidly interconnected, and interchangeable means disposed in front of the said plate and annular reflector, these means restricting the cross section of the pencil of light rays entering the apparatus to that of the pencil of light rays striking one of the plane reflectors.

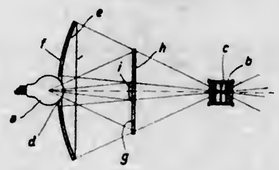
1,943,510
DEVICE FOR LIGHT-FIELD AND DARK-FIELD ILLUMINATION OF MICROSCOPIC OBJECTS
Walther Bauersfeld and August Köhler, Jena, Germany, assignors to firm Carl Zeiss, Jena, Germany
Application October 10, 1932, Serial No. 637,024, and in Germany October 15, 1931
3 Claims. (Cl. 88—40)

1. A device for illuminating microscopic objects alternatively in a light and in a dark field, comprising a converging optical system, a diaphragm disposed in the front focal plane of this system, another converging system provided behind the first said system and adapted to receive the light rays traversing the central part of the first said system, a light-field condenser, the front focal plane of the light-field condenser coinciding approximately with the rear focal



plane of the said other system, another diaphragm disposed in the front focal plane of the said other optical system, a third diaphragm, this third diaphragm being removable and adapted to stop down the central part of the rays having traversed the first said converging system, and an annular dark-field condenser surrounding the light-field condenser.

1,943,511
APPARATUS FOR PROJECTING LUMINOUS DASHES AND DOTS ON A DARK GROUND
Walther Bauersfeld, Jena, Germany, assignor to the firm Carl Zeiss, Jena, Germany
Application October 17, 1932, Serial No. 638,154, and in Germany October 20, 1931
4 Claims. (Cl. 88—24)



1. An apparatus for projecting linear and punctiform perforations in a reflecting layer of a plane transparent object plate, comprising a projection objective, a source of light and a concave reflector, a central light entrance aperture provided in the concave reflector, the source of light being located in front of the said light entrance aperture and outside the said concave reflector, the object plate being disposed between the source of light and the projection objective and facing the source of light with its reflecting layer, the said parts being so arranged that the concave reflector produces approximately in the entrance pupil of the projection objective a real image of the virtual image of the source of light produced by the reflecting layer of the object plate.

1,943,512
SWIFT
Morris W. Becker, Brooklyn, N. Y.
Application May 18, 1932. Serial No. 611,961
6 Claims. (Cl. 242—110)



1. In a swift, a spoke provided with a skein supporting means and an element slidably mounted on the end of the spoke, whereby the swift is adapted to receive skeins of various bulks.

1,943,513
CHEMICAL COMPOUND
Willi Brün, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application October 19, 1931
Serial No. 569,238
13 Claims. (Cl. 52—4)

1. As a composition of matter, a lead salt of 3–5 di-nitro ortho cresol.

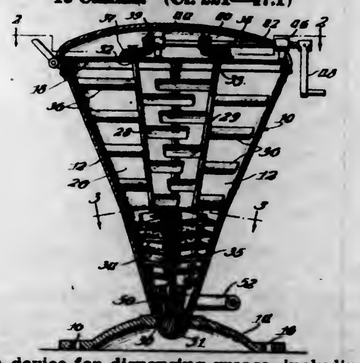
5. A priming composition containing a lead salt of 3–5 di-nitro ortho cresol.

1,943,514
WIRE CONNECTER MEANS
William C. Burnham, Fair Oaks, Calif.
Application July 5, 1932. Serial No. 620,890
8 Claims. (Cl. 140—119)



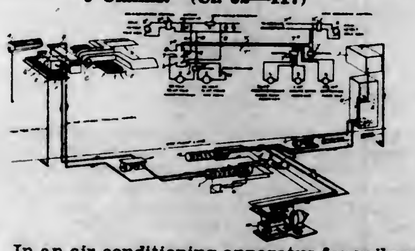
1. In a device of the character described, handle means, a head on said handle means, a connecter sleeve engaging member having a slot extending inwardly from the periphery thereof to receive and pass a connecter sleeve, said head including a stationary member and a hinged member cooperating to form a receptacle in which said sleeve engaging member rotates, one of said head members surrounding more than half of said sleeve engaging member so that said sleeve is retained therein in substantially all positions but one.

1,943,515
GREASE DISPENSING APPARATUS
Ernest W. Davis, Oak Park, Ill., assignor to Alemite Corporation, Chicago, Ill., a corporation of Delaware
Original application October 9, 1929, Serial No. 398,323. Divided and this application May 16, 1932. Serial No. 611,494
15 Claims. (Cl. 221—47.1)



1. A device for dispensing grease, including an inverted bi-conoidal-shaped grease chamber, a discharge conduit communicating with its lower end, a plurality of conveyor shafts mounted therein, means for rotating said shafts in opposite directions, a plurality of inclined blades rigidly attached to at least one of said shafts and intermeshing screw conveyors on said shafts adjacent the lower end of said chamber.

1,943,516
AIR CONDITIONING APPARATUS FOR PASSENGER CARS
Jesse H. Davis, Baltimore, Md., assignor to B. F. Sturtevant Company, Boston, Mass., a corporation of Massachusetts
Application January 15, 1931. Serial No. 508,997
9 Claims. (Cl. 62—117)

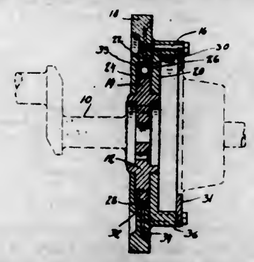


1. In an air conditioning apparatus for railway cars, a motor driven air circulating fan, a motor driven compressor, a motor driven refrigerant circulating pump, electrical current supplying means for the motors including high and low voltage sources, and controlling means for supplying current through said current supplying means to the fan motor alone from the low voltage source or the fan and pump motors from the low voltage source and the compressor motor from the high voltage source.

1,943,517
CUSHION FLYWHEEL
John F. Daukus, Detroit, Mich.
Application September 12, 1930
Serial No. 481,287
2 Claims. (Cl. 74—6)

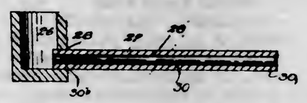
1. A cushion flywheel including, in combination, an inner axial member having an annular

flange extending around the central portion of its peripheral face, an outer peripheral member having a centrally disposed annular groove, the wall extremities of which are adapted to seat on the



peripheral face of said inner member adjacent each side of the flange, and cooperating yielding and rigid driving connections between said members.

1,943,518
PIPESTEM LINER
John M. Denney, Depew, Okla.
Application February 17, 1931. Serial No. 516,313
1 Claim. (Cl. 131—12)



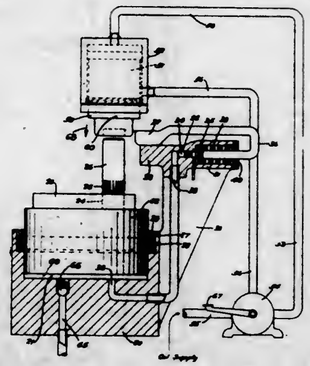
The combination with a single piece stem for pipes and like smoking implements of a liner extending from the outer end of the stem inwardly toward its opposite end, said liner comprising a single flexible tube tapered to a somewhat smaller diameter toward the end opposite the outer end, the liner's outer end forming a draft seal with the stem at that point.

1,943,519
WASHING COMPOSITION
Paul S. Denning, Joliet, Ill., assignor, by direct and mesne assignments, of one-half to F. E. Schundler & Company, Inc., Joliet, Ill., a corporation of Illinois, and one-half to The Wyodak Chemical Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application May 25, 1931
Serial No. 540,006
1 Claim. (Cl. 87—5)

A non-gel fabric cleaning composition in liquid form comprising water into which has been dispersed 50 to 70 parts of bentonite, 30 to 50 parts of soda ash for maintaining the bentonite in a highly fluid condition beyond the maximum gel effect on the bentonite and a small amount of soap.

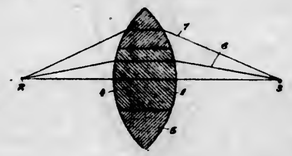
1,943,520
PRESSURE REGULATOR FOR PRESSURE PRESSES
George W. Elsey, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware
Application July 30, 1932. Serial No. 626,862
8 Claims. (Cl. 29—86)

1. A device of the character described comprising, in combination, a work-piece supporting base; a pressure exerting member adapted to engage the work-piece; means normally directly engageable by said member for limiting its move-



ment toward the work-piece; and means adapted to render said means unengageable by the pressure exerting member in response to a predetermined pressure upon the supporting base.

1,943,521
LENS FOR OPTICAL PURPOSES
Waldemar Ewald, Berlin-Lichterfelde-Ost, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application November 3, 1932, Serial No. 640,921, and in Germany October 30, 1931
1 Claim. (Cl. 88—57)



An optical projection lens comprising a plurality of portions, one portion being disposed on the optical axis of the lens and being formed of glass of a certain index of refraction and other portions more remote from said optical axis being formed of glass of a different index of refraction, said portions being joined together along non-optical surfaces and said indices of refraction of the various portions being such as to counteract spherical aberration in the lens as a whole.

1,943,522
STANDING VALVE CONTROL APPARATUS
Harold W. Fletcher, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Texas
Application September 3, 1932. Serial No. 631,612
8 Claims. (Cl. 103—52)

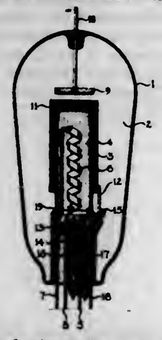
1. A plunger lift apparatus including a well casing, a casing head thereon, an eduction tube in said casing, a standing valve at the lower end of said tube, a barrel about said tube having an opening at a level above the liquid level in the well and allowing the passage of gas from the

well to the lower end of said tube above said standing valve, and a plunger in said tube mov-



able by gas pressure from the lower to the upper end of said tube.

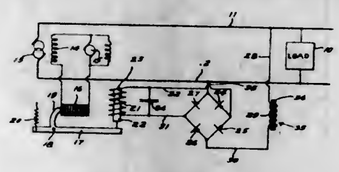
1,943,523
ELECTRON TUBE
Eugene A. Giard, Shorewood, and Earl A. Fritz, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application June 29, 1931. Serial No. 547,466
7 Claims. (Cl. 250—27.5)



1. A gas tight electron discharge tube comprising a plurality of non-communicating compartments, energy translating elements arranged within said tube in different compartments, a glass portion for said tube forming a stem, and exhaust tubes for the several compartments forming passages through said stem for independent exhaustion of said compartments and comprising a material which is rigid at the melting temperature of the glass.

1,943,524
SYSTEM AND APPARATUS FOR REGULATION
Frank W. Godsey, Jr., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application May 11, 1931. Serial No. 536,405
11 Claims. (Cl. 171—229)

1. In apparatus of the character described, in combination, a source of alternating current, a carbon pile for controlling a function of the output of said source, a winding and a movable magnetic member related and constructed to each other so that said movable member is held by said winding in whatever position said member is moved thereby upon the reestablishment of a given effective energization of said winding, said movable member being connected to affect said

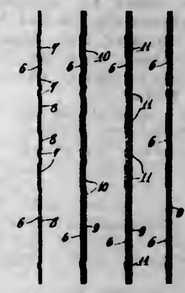


carbon pile, rectifying means interposed between said winding and said source, and a reactance having a magnetic core operating at substantial saturation so as to require a high magnetizing current, for amplifying the effect of changes in said function upon said winding.

1,943,525
COLORED ROOFING GRANULE
Henry R. Gundlach, Baltimore, Md., assignor to Central Commercial Company, a corporation of Illinois
No Drawing. Application August 19, 1931
Serial No. 558,105
10 Claims. (Cl. 91—70)

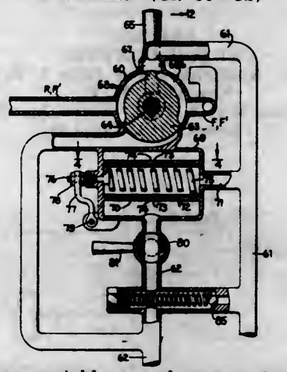
1. A method of coloring granules of mineral matter suitable for use on composition roofing which consists in attaching color pigments to the granules with a waterproof cement comprising a mixture of phosphoric acid, a filler and zinc oxide.

1,943,526
METHOD OF BACKING ELECTROTYPE PLATES
Rush T. Haines, Lansdowne, Pa., assignor to Royal Electrotype Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 11, 1930
Serial No. 494,917
8 Claims. (Cl. 101—401.1)



1. The method of backing a printing plate, which consists in depositing backing metal upon the nonprinting face of the plate, in heating and fluxing the plate, in flowing metal or alloy into union with the nonprinting face of the plate to fill up the hollows of the nonprinting face of the plate and in cutting from the nonprinting face of the plate until the plate is of such thickness that the electrodeposited backing metal is exposed over a portion of the nonprinting face.

1,943,527
CONTROLLING MEANS FOR VARIABLE SPEED POWER TRANSMISSION MECHANISMS
Frank A. Hayes, Middletown, N. J.
Application October 9, 1930. Serial No. 487,453
4 Claims. (Cl. 60—52)



1. In a variable speed power transmission mechanism having a driving element and a driven element, in combination, oil-actuated means for producing a change of speed ratio between the driving element and the driven element, means for delivering oil from a source thereof to the oil-actuated means at a pressure dependent upon the speed of a driving engine connected with the driving element to increase the speed ratio of the mechanism as the engine speed increases, means for by-passing a part of the oil back to the oil source, temperature-responsive means cooperating with the oil by-passing means to vary the capacity of said by-passing means in accordance with the temperature of the oil, and operator-operable means in series with the temperature-responsive means to decrease the total amount of oil by-passed.

1,943,528
COWLING RING FOR AIRPLANE ENGINES
Harold A. Hicks, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application April 6, 1931. Serial No. 528,129
20 Claims. (Cl. 244—31)

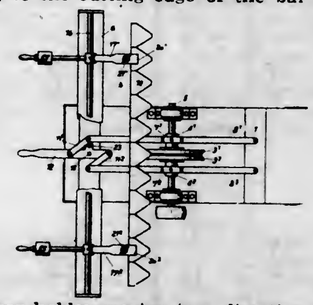


17. In aircraft, a motor, a cowling ring, and means secured to said ring and bearing on said motor but not secured to said motor.

19. Aeroplane anti-drag-ring for use with radial type engines, comprising an anti-drag-ring and a series of pads on the inner surface of said ring, adapted to engage projections carried by the head of each cylinder of a radial type engine.

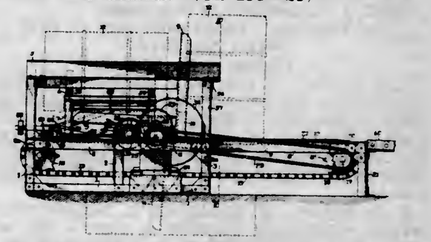
1,943,529
APPARATUS FOR GRINDING CUTTER BARS OF MOWING MACHINES
Alphonse Hirth, Burnhaupt-le-Haut, France
Application June 15, 1933, Serial No. 675,987, and in France June 20, 1932
6 Claims. (Cl. 51—36)

1. An apparatus for grinding cutter bars of mowing machines comprising a frame, a driving shaft, bearings for the shaft on the frame, a grinding disc slidably mounted on the driving shaft and having a working surface inclined according to the cutting edge of the bar teeth, a



cutter bar holder moving in a direction perpendicular to the disc axis and means for effecting in combination the lateral displacement of the grinding disc and the advancing movements of the bar holder.

1,943,530
BARREL HANDLING MACHINERY
Arthur Hoeffleur, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application May 25, 1931. Serial No. 539,825
8 Claims. (Cl. 198—25)

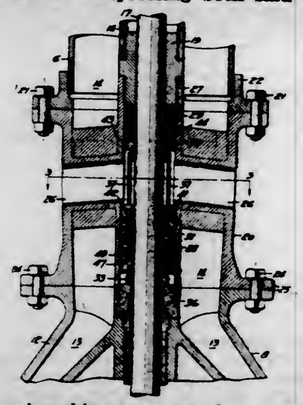


1. A machine for changing the axial position of cylindrical containers from one position to another which comprises, a frame, a saddle mounted upon said frame, and an intermittently rotatable means operative upon receipt of the containers to the saddle for removing the containers from the saddle, changing their axial position, and placing them upon a conveyor means, the saddle comprising means to engage the periphery of the container and stationarily support the container at opposite sides of the rotatable means and in the path of the rotatable means.

1,943,531
WELL PUMP
Aladar Hollander, Pasadena, Calif., assignor to Byron Jackson Co., Berkeley, Calif., a corporation of Delaware
Application September 6, 1930. Serial No. 480,062
6 Claims. (Cl. 103—102)

1. In a well pump, a pump casing, a shaft in said casing, a tubular shield around the shaft and providing a channel for liquid between the shield and the casing, bearings for said shaft in said shield, an impeller on said shaft, a duct having an inlet to said shield and adapted to discharge to the exterior of the casing, a first packing means between said duct and said bearings, a second packing means between said duct and said impeller, a spacing member between said first and

said second packing means, common mechanical means for compressing both said first and



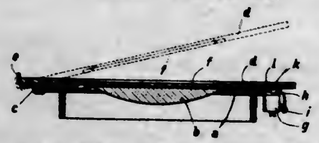
said second packing means, and means for limiting the compression of said first packing means by said mechanical means.

1,943,532
SYNTHETIC INORGANIC GEL AND PROCESS FOR MAKING SAME
Charles S. Howe, Los Angeles, Calif., assignor to Los Angeles Testing Laboratory, Los Angeles, Calif., a corporation of California
No Drawing. Application July 27, 1929
Serial No. 381,677
5 Claims. (Cl. 252—6)

1. A method of making a viscous gel forming composition comprising the steps of adding a fusible alkali salt to an ordinary composition for making cement by calcination and subjecting the aggregate mass to calcination, said alkali salt being potentially reactive with said ordinary composition.

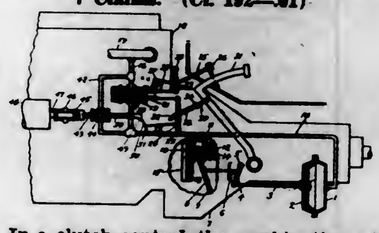
3. A method of producing a composition of matter capable of forming a viscous gel with water comprising adding to a composition of Portland cement and an alkali silicate an acid salt which will liberate silica in a colloidal form and increase the solubility of the alkaline earth salt.

1,943,533
OBJECT STAGE FOR PROJECTION APPARATUS
Max Hübschmann, Jena, Germany, assignor to firm Carl Zeiss, Jena, Germany
Application January 6, 1933, Serial No. 650,464, and in Germany January 14, 1932
1 Claim. (Cl. 88—26)



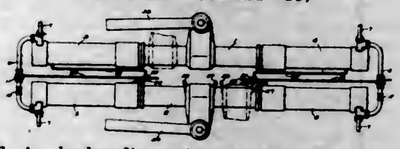
An object stage for apparatus projecting in transmitted light objects of great dimensions, the object stage having a plane upper surface, a plano-convex lens disposed in the object stage, this lens having its plane surface lying approximately in the plane surface of the stage, a folding plate pivotally attached to the stage, at least that part of this plate which corresponds to the said lens being of a transparent material and having substantial contact with the plane surface of the lens, a push-button switch being disposed in the object stage, and a cap adapted to be placed on the push-button of the switch, the switch being adapted to be operated by the folding plate when the said cap rests on its push-button.

1,943,534
CLUTCH CONTROL
Sergy N. Koulichkov and John J. Drabin, New York, N. Y.
Application May 4, 1932. Serial No. 609,224
7 Claims. (Cl. 192—.01)



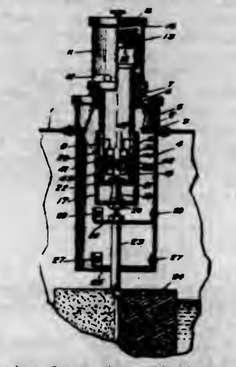
1. In a clutch control, the combination with a vacuum motor, operative connections between said motor and the engine clutch of an automobile, said motor when in its operative condition being adapted to release said clutch, a pipe connecting said motor with the intake manifold of said engine, two valves in said pipe, one of said valves being operatively connected with the throttle control of said engine and being adapted to close said pipe when said throttle is opened, the other valve being operatively connected with the brake pedal and being adapted to close said pipe when said pedal is depressed, a bypass valve connected with said pipe in parallel with said first valves, engine operated means to close said bypass valve when the engine speed exceeds a predetermined low limit, and an operative connection between said bypass valve and said brake pedal adapted to close said bypass valve during the first portion of the movement of said pedal, said connection between the bypass valve and the brake pedal being adapted to become inoperative during the second portion of the operative movement of said brake pedal.

1,943,535
AUTOMATIC CUT-OUT SAFETY DEVICE FOR HYDRAULIC SYSTEMS
Robert C. Lamond, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 31, 1931. Serial No. 526,749
6 Claims. (Cl. 121—38)



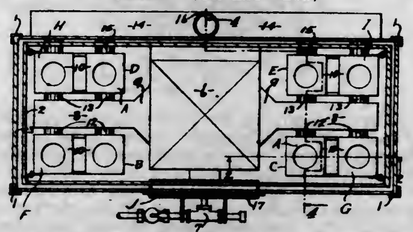
6. An hydraulic motor comprising, a pair of rams arranged substantially in side by side relation, cylinders embracing the opposite ends of each of said rams, piping connecting the cylinders of one ram with the diagonally opposite cylinders of the other ram, whereby pressure may be simultaneously applied to either of said connected pairs of cylinders while exhausting the other, bypass means between said connected pairs of cylinders, normally closed valves in said bypass means, one of said valves controlling the flow of fluid from the cylinders subjected to pressure to the cylinders connected to exhaust when said rams are actuated in one direction, the other of said valves controlling the flow of fluid from the cylinders subjected to pressure to the cylinders connected to exhaust when said rams are actuated in the reverse direction, means for opening one of said valves when the rams approach their limit of travel in one direction, means for opening the other of said valves when the rams approach their limit of travel in the reverse direction, a pump for supplying fluid pressure to said cylinders, and means for urging said valve to closed position.

1,943,536
VALVE MECHANISM FOR CUTTING OFF THE SUPPLY OF LIQUID TO RESERVOIRS, CASKS, AND OTHER CONTAINERS
Jacques Muller, La Garenne Colombes, France
Application May 24, 1928, Serial No. 280,339, and in France May 25, 1927
3 Claims. (Cl. 137—104)



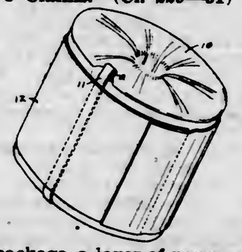
1. Apparatus for automatically cutting off the liquid supply to reservoirs, comprising a filling tube for the reservoir, a slide obturator, associated with the filling tube and operated by a float and means for effecting a closing action of the obturator which becomes more powerful as the pressure and the speed of flow of the liquid increases.

1,943,537
FURNACE
Leon R. Johnson, Wichita, Kans.
Application August 26, 1931. Serial No. 559,387
1 Claim. (Cl. 126—108)



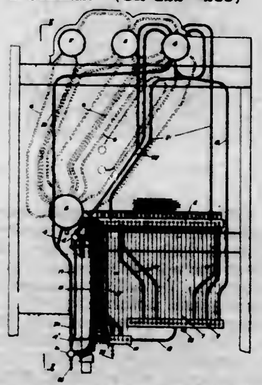
In a furnace, in combination, an insulated shell comprising end and side walls and a top enclosure, the bottom being open, a manifold positioned on one side of the shell and near the top thereof, a combustion chamber contained in the shell, a pair of lateral flues extending in opposite directions and communicating with the combustion chamber the side walls of the lateral flues adjacent the combustion chamber being flared outward toward the connection thereof with the combustion chamber, a pair of heating drums connected with one side of each lateral flue, a second pair of heating drums on the opposite side of each lateral flue and having connection with the first said heating drums adjacent the bottoms thereof, each drum of the last said pair connecting with the manifold adjacent the top of the drums.

1,943,538
PACKAGE OPENER
Samuel C. Kahn, Indianapolis, Ind., assignor to Capital Paper Company, Indianapolis, Ind.
Application December 5, 1932. Serial No. 645,672
3 Claims. (Cl. 229—51)



1. For a package, a layer of paper on the package, a tape extending across and secured to the paper, said tape being sufficiently and continuously united with the paper to tear away a strip of the paper with the tape upon pulling the tape, and an outer layer of paper overlapping the tape, said tape having a projecting end whereby said end may be pulled laterally to cause the tape to shear through the outer paper simultaneously with the tearing open of the inner paper.

1,943,539
STEAM GENERATOR
Howard J. Kerr, Westfield, N. J., assignor to Fuller Lehigh Company, Fullerton, Pa., a corporation of Delaware
Application December 10, 1930
Serial No. 501,174
4 Claims. (Cl. 122—235)



1. In a boiler, a furnace having panels of water wall tubes along one wall thereof, upper and lower headers connected to tubes of each of said panels, one of said lower headers being at

a lower level than another, connections from said headers to the circulation system of said boiler, and a direct connection between two lower headers that are at different levels.

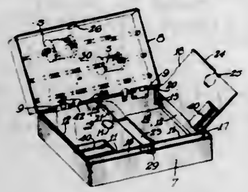
1,943,540
SEED DISINFECTANT
Morris S. Kharasch, Chicago, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application May 15, 1929, Serial No. 363,401. Divided and this application May 12, 1930. Serial No. 451,851
4 Claims. (Cl. 167—38)

1. A disinfectant in dust form for the control of seed and plant diseases, comprising in combination an alkyl mercuric acetate and a dry diluting agent.

1,943,541
METHOD OF RECLAIMING AND REUSING METALLIC SCRAP MIXTURES
Russell H. McCarroll and Gosta Vennerholm, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
No Drawing. Application February 4, 1930 Serial No. 425,901
8 Claims. (Cl. 219—4)

8. A method of reclaiming scrap pieces of welding electrodes which are composed of sintered masses of tungsten particles impregnated with copper, consisting of comminuting said pieces to a powder, the individual particles of said powder consisting of tungsten particles coated with copper and copper oxide, then reducing said copper oxide coatings to metallic copper, then pressing said powder in dies to the shape of an electrode, and then sintering said electrode, whereby said coatings will form an intimately connected cellular matrix of high electrical conductivity.

1,943,542
SEWING COMPACT
Henry McDonough, Elgin, Ill.
Application June 17, 1932. Serial No. 617,699
4 Claims. (Cl. 223—56)



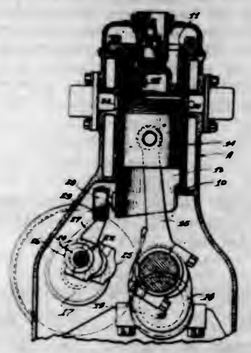
1. In a sewing compact, a plate having aligned openings therein and notches in the side edges thereof aligned with the openings, spool retaining members including limb portions projecting through adjacent of said openings and an adjacent opening and notch to project beyond one side of said plate, adjacent of said limb portions projecting through the same opening and respectively cooperating with the limb portion projecting through the adjacent opening or notch, means securing said spool retaining members to said plate, and means on said spool retaining members for rotatably supporting spools of thread.

1,943,543
SURGICAL INSTRUMENT
William J. McFadden, Cedar Rapids, Iowa
Application June 21, 1932. Serial No. 618,457
12 Claims. (Cl. 174—89)



1. A surgical instrument for electrical treatment comprising a handle and a stem portion of insulating material, conductors secured to the handle portion and extending through the stem portion, the stem being slidable within the handle portion whereby the length of the uncovered portion of the conductors may be regulated from the handle end of the instrument, and the stem having a groove located beneath the handle and the handle having a projection extending into the groove whereby the motion of the stem within the handle may be limited.

1,943,544
ENGINE
Andre J. Meyer, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application August 10, 1931. Serial No. 556,172
20 Claims. (Cl. 123—81)



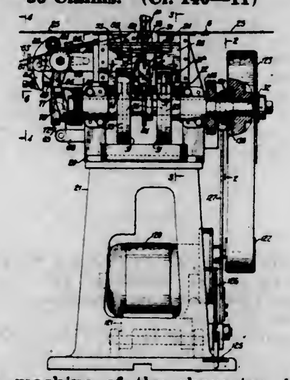
1. In an engine of the reversing type having a cylinder and associated sleeve valve means adapted to move with a combined reciprocation and oscillation, said cylinder and sleeve valve means having cooperating intake and exhaust ports, said cylinder and sleeve intake ports being substantially triangular and having apices extending axially of the sleeve, each of said cooperating intake ports having a greater area of opening to one side of the axial line of the ports passing through the mid-point of the base of said substantially triangular ports than to the other side thereof.

1,943,545
STEERING WHEEL
Courtney N. Mitchell, Cleveland Heights, Ohio, assignor to The J. & M. Machine Company, Cleveland, Ohio, a corporation of Ohio
Application November 21, 1929
Serial No. 408,784
7 Claims. (Cl. 74—33)



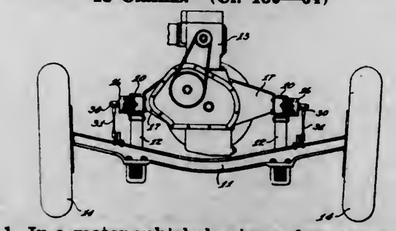
1. A steering wheel comprising a hub, a plurality of spokes secured to the peripheral surface of said hub and extending radially therefrom, and a reinforcing member for each of said spokes, each of said reinforcing members comprising a channel-shaped element engaging the under side of one of said spokes and embracing the same.

1,943,546
CLIPPING MACHINE
David T. Owen, Cleveland, Ohio, assignor to The Owen Automatic Spring Machinery Company, a corporation of Ohio
Application August 15, 1931. Serial No. 557,298
33 Claims. (Cl. 140—11)



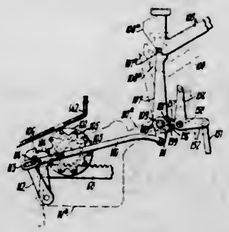
1. In a machine of the character described, means for holding three wires in juxtaposition, dies adapted to fold a metal clip about the juxtaposed wires, means for operating the dies, and means for interlocking the clip and at least one of the wires.

1,943,547
MOTOR VEHICLE
Clyde R. Paton, Birmingham, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application July 15, 1932. Serial No. 622,683
13 Claims. (Cl. 180—64)



1. In a motor vehicle having a frame, a motor, and an axle, the combination with a shock absorbing connecting means between the motor and the axle of a resilient connecting means between said shock absorbing connection and said frame.

1,943,548
COMBINED TYPEWRITING AND COMPUTING MACHINE
Henry L. Pitman, Westfield, N. J., assignor to Elliott-Fisher Company, New York, N. Y., a corporation of Delaware
Original application June 2, 1926, Serial No. 113,133. Divided and this application August 14, 1931. Serial No. 556,968
4 Claims. (Cl. 235—60)



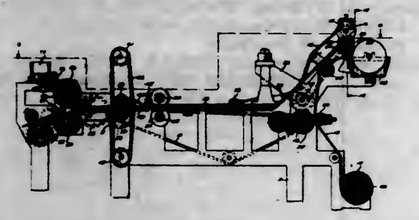
1. In a combined typewriting and computing machine, the combination with a typewriter-key-lever manually operable to print, a plurality of computing wheels and indexible devices wherein an amount to be registered in said wheels may be set up, of a shiftable interponent whereby the operation of said key-lever may be thwarted, means controlled by the rotary positions of said wheels whereby said interponent is caused to be effective or ineffective to thwart said operation of said key-lever, and means operatively connected to said interponent whereby said key-lever when operated unsets said indexible devices directly by the key-lever stroke, said key-lever being formed so as to be capable of shifting said interponent when the latter is in ineffective position.

2. In a combined typewriting and computing machine, the combination with a set of computing wheels, of clearance key-mechanism including a member adjacent the computing wheels, capable of assuming two positions depending on whether or not all of said wheels stand at a given position, said member having a vibratory movement as said wheels are rotated, a key-lever operable to print a clear sign, an interponent for preventing operation of said key-lever and movable into and out of effective position, the movement to effective position being limited by an abutment, and a yielding connection between said interponent and member whereby said interponent is effective or ineffective depending on the aforesaid positions of said wheels, said abutment and yielding connection co-operating to prevent the vibration of said interponent when the latter is in effective position and the wheels are rotated.

1,943,549
BAG MAKING MACHINE
George W. Poppe, Brooklyn, N. Y., assignor to Equitable Paper Bag Co., Inc., Brooklyn, N. Y., a corporation of New York
Original applications May 16, 1931, Serial No. 537,844, and August 8, 1931, Serial No. 555,893. Divided and this application June 16, 1932. Serial No. 617,544
7 Claims. (Cl. 93—18)

1. In a bag machine, in the combination, mechanism for folding the bottom flap of a bag including a clamp and tucker blade and means for conveying a bag to said folding mechanism so that only the flap is engaged with the clamp, a

reciprocatory paste bar for applying paste to the bag wall for securing the flap thereto and means



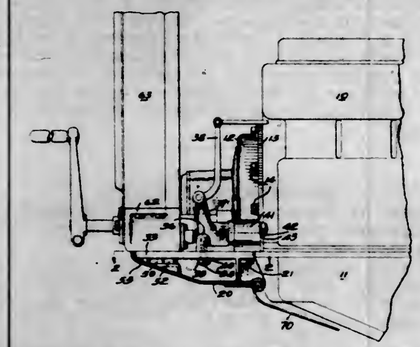
for engaging said wall during withdrawal of the paste bar.

1,943,550
SEAT CONTROL MECHANISM
Albert T. Potter, Detroit, Mich., assignor to Ainsworth Manufacturing Corporation, a corporation of Michigan
Application October 17, 1932. Serial No. 638,149
14 Claims. (Cl. 155—14)



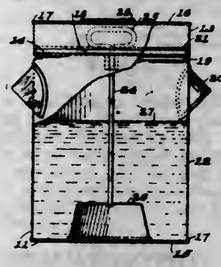
14. The combination with a seat element and a supporting element, of a pair of elongated plate members secured to the elements respectively, roller elements between the members for supporting one on the other, one of said members having a portion bent to form a longitudinally directed guideway laterally spaced from the rollers, and means for locking the plate members in relatively adjusted positions longitudinally thereof and including a movable member extending longitudinally in the guideway.

1,943,551
MOTOR VEHICLE
William H. Radford, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application December 16, 1930. Serial No. 502,729
11 Claims. (Cl. 180—54)



1. In a motor vehicle, a motor, a housing secured thereto, a bracket separable from and secured to said housing as an independent unit, and a radiator supported on said bracket.

1,943,552
DRY CLEANING DEVICE
Harold D. Read and Leonard C. Neufeld, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application September 7, 1932. Serial No. 631,973
3 Claims. (Cl. 68—38)



2. A dry cleaning device comprising: an open-mouthed vessel; a closure therefor; sealing means forming a fluid-tight union between said vessel and said closure; supporting means located on the inside of said vessel near the mouth thereof; an inner closure adapted to be carried by said supporting means, said inner closure having a small aperture therein; an agitator disposed within the chamber formed by said vessel and said inner closure; and operating means connected to said agitator and extending through said aperture, said operating means being completely enclosed within the chamber formed by said vessel, said sealing means and said first-mentioned closure.

1,943,553
HYDRAULIC PLUNGER STOP
Norman H. Ricker, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Texas
Application February 13, 1932. Serial No. 592,826
5 Claims. (Cl. 103—52)

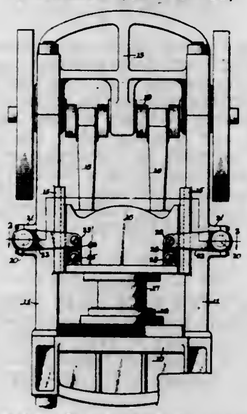


1. An eduction tube for plunger lift devices, a nipple closing the lower end of said tube, said nipple having inlet openings spaced above the lower end thereof, in combination with a plunger, a valve controlled passage therethrough, and a closed extension on said plunger below said valve formed to fit loosely in said nipple, said openings serving to admit pressure fluid to lift said plunger.

1,943,554
QUARTZ PLATE FOR HALF-SHADE POLARIMETERS
Robert Richter, Jena, Germany, assignor to the firm Carl Zeiss, Jena, Germany
No Drawing. Application August 19, 1930, Serial No. 476,439, and in Germany September 11, 1929
2 Claims. (Cl. 88—14)

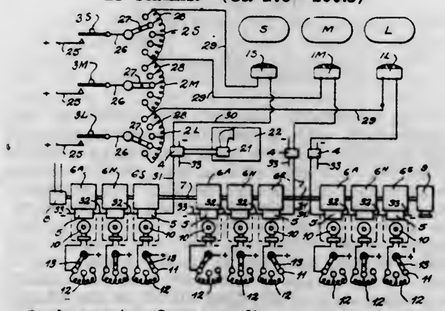
1. A quartz plate, system Laurent, for half-shade polarimeters, having a thickness between 0.2 mm. and 1.0 mm., which at the same time is an odd multiple of 0.03236 mm. and of 0.02977 mm.

1,943,555
METAL WORKING PRESS
Fredrich J. Rode, Chicago, Ill.
Application June 10, 1932. Serial No. 616,373
10 Claims. (Cl. 113—38)



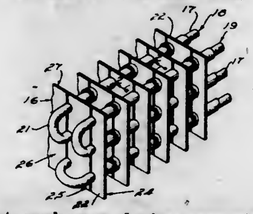
1. In a press, a frame, a reciprocable die slide operable therein, a shaft mounted in the frame, a direct pitman rod connection between the slide and said shaft, rock shafts journaled in a stationary part of the frame, the axes of said rock shafts intersecting the axis of the first said shaft, and lever and link connections between the rock shafts and different portions of the said slide for maintaining the slide against tilting.

1,943,556
SYSTEM FOR RECORDING SOUND
Oscar A. Ross, New York, N. Y.
Application September 18, 1928
Serial No. 306,655
15 Claims. (Cl. 179—100.3)



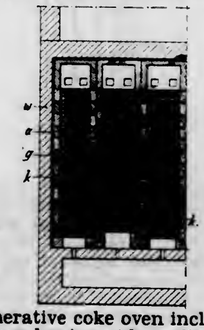
1. Apparatus for recording sound comprising, sound recording apparatus arranged to synchronously advance a plurality of light sensitive photographic sound tracks for recording the sound thereon, an energized circuit including sound responsive apparatus arranged to receive the sound to be recorded, a plurality of light controlling devices associated with the recording apparatus responsive to the circuit including the sound responsive device apparatus arranged to effect recording of the sound onto the sound tracks, a light source for each light controlling device arranged to effect recording of the sound onto the tracks in response to the operation of the light controlling device, and means associated with each light source for adjustably varying the light intensity thereof relatively whereby sound records of differing sound amplitude may be synchronously recorded onto the tracks as advancement thereof is effected by the recording apparatus.

1,943,557
HEAT EXCHANGE DEVICE
Louis Ruthenburg, Birmingham, and John R. Replogle and Harold R. McPhail, Detroit, Mich., assignors to Copeland Products, Inc., a corporation of Michigan
Application June 13, 1932. Serial No. 616,856
3 Claims. (Cl. 257—263)



1. A heat exchange device comprising a pair of oppositely disposed fins having flanged openings formed in the adjacent edges thereof, the flanges of said fins terminating in spaced relation with the edges thereof, a tube extending through a pair of said openings between said fins and a tubular member surrounding said flanges and tube for holding said flanges in contact with said tube and for pressing the ends of said flanges rigidly against said tube for preventing displacement of the fins thereon.

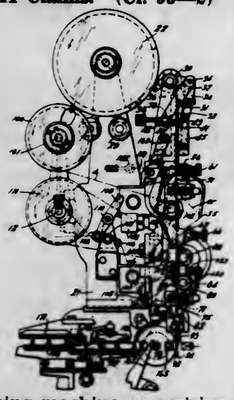
1,943,558
REGENERATIVE OVEN
Josef Schaefer, Dortmund, Germany
Application December 31, 1930, Serial No. 505,674, and in Germany February 10, 1930
2 Claims. (Cl. 263—19)



1. A regenerative coke oven including regenerator chambers having side walls, of removable

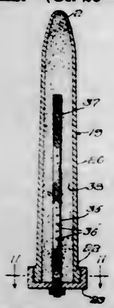
refractory cases mounted in said regenerator chamber, said refractory cases being in spaced relation to the regenerator walls permitting independent expansion of the refractory cases, a plurality of superimposed boxes mounted in said refractory cases and filling bodies formed in each of said boxes.

1,943,559
MACHINE FOR MAKING PACKAGES WITH INTEGRAL TEARING STRIPS
Elmer L. Smith, Longmeadow, and Carl E. Melhorn, Springfield, Mass., assignors to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application February 13, 1933. Serial No. 656,666
11 Claims. (Cl. 93—2)



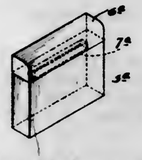
1. A wrapping machine comprising means for forming a wrapper with a flattened pleat extending along it, and means for folding the pleated wrapper around an article with one end of the pleat exposed to form a tearing strip.

1,943,560
METHOD OF MAKING AIRPLANE PROPELLER BLADES
John Squires, Detroit, Mich.
Application January 25, 1929. Serial No. 334,876
11 Claims. (Cl. 29—156.8)



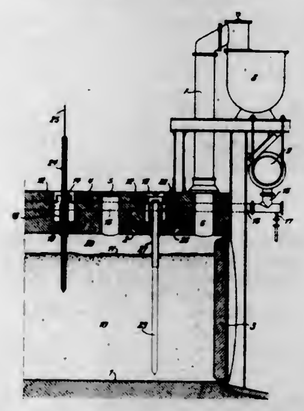
10. The method of forming a propeller blade comprising forging a metal billet into an elongated cup-shaped member, filling the interior of said member with a mass of relatively finely divided solid material substantially non-fusing at the temperature required to forge the metal from which said member is made, closing the interior of said member to the escape of said material by capping the open end thereof with a cap provided with a venting member extending into said mass of material, and then heating and forging said member to the desired shape and contour.

1,943,561
BLADE FOR ROTARY PUMPS
Benjamin M. Staley, Oil City, Pa., assignor to National Transit Pump & Machine Company, Oil City, Pa., a corporation of Pennsylvania
Application July 6, 1932. Serial No. 621,027
4 Claims. (Cl. 103—136)



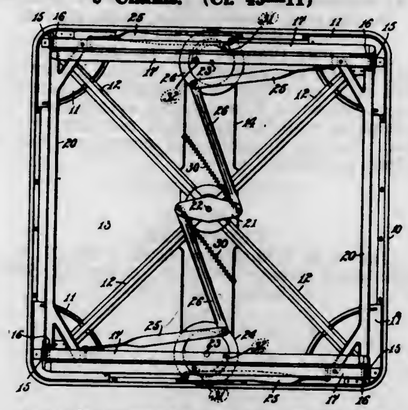
1. A rotary pump blade comprising a bearing tip formed of high wear-resisting material provided on its outer end with a curved pump-wall-engaging surface and on its inner end with an undercut tongue of lesser length than the body of the tip, and a metal body portion die-cast upon said tip with its tip-engaging end rigidly engaging said tongue in a manner to prevent endwise movement of said tip with respect to said body and its side walls extending in alignment with those of the tip.

1,943,562
CHAMBER OVEN FOR COAL DISTILLATION
Carl Still, Recklinghausen, Germany
Application January 9, 1931, Serial No. 507,678, and in Germany January 14, 1930
2 Claims. (Cl. 202—257)



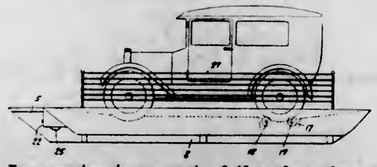
1. In apparatus of the class described, the combination with a chamber oven including a roof having apertures, said oven being adapted to contain a charge of coal and having a space between said charge and the roof, means operating through the apertures in said roof for forming ducts in the interior of the charge, discharge tubes extending into the charge and sealed within the charge in the upper end of said ducts, means within the roof for sealing said tubes against the space between the charge and the roof, and a horizontal gas collecting pipe connected with the upper end of said tubes.

1,943,563
FOLDING LEG TABLE
Robert V. Stoner and Ervin A. Schlaak, Muncie, Ind.
Application July 5, 1932. Serial No. 620,764
9 Claims. (Cl. 45—11)



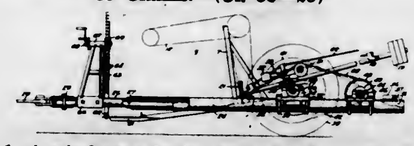
1. A table comprising a top, a plurality of leg units pivotally supported on the top and arranged to be swung to positions either substantially parallel with or normal to the plane of the top, a plurality of levers pivotally supported on the top on axes normal to the top, one for each leg unit, a plurality of links each pivotally connected to one of said levers and to an adjacent leg unit, an intermediate lever pivotally supported upon the top intermediate the first-mentioned levers, and a plurality of links, one for each of the first-mentioned levers, each of said last links connecting one of said first-mentioned levers with the intermediate lever.

1,943,564
WATER TRANSPORT FOR AUTOMOBILES AND THE LIKE
Garland H. Sturgell, Skagway, Territory of Alaska
Application December 6, 1932. Serial No. 645,991
2 Claims. (Cl. 115—.5)



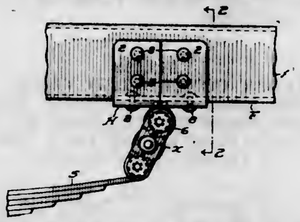
1. In a water transport of the class described, the combination of three pontoons disposed alongside of one another in spaced relation, a pair of longitudinally extending shafts one to each side of the center pontoon and to the inner sides of the other pontoons, means for mounting the shafts and holding the pontoons together, the side pontoons being provided in their upper surfaces with longitudinally extending channels in which are rollers, shafts journalled in the side pontoons on which said rollers are mounted, said second mentioned shafts being operatively connected with the first mentioned shafts, the channels also being provided with chock recesses, and propeller structure comprising elongated screw propellers on the front of the first mentioned shafts and blade propellers on the rear ends thereof.

1,943,565
WINDROW ADAPTER
Lowell H. Thoen, Stockton, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application May 28, 1929. Serial No. 366,561
39 Claims. (Cl. 56—23)



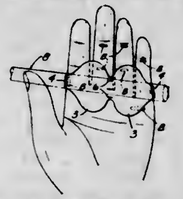
1. A windrow adapter for a header unit comprising a pair of telescoping tubes, a supporting wheel mounted on the first of said tubes, means for fastening said header to said first tube, a draft connection on the second of said tubes, and means for fastening said header to said second tube.

1,943,566
SPRING HANGER
William A. Tryon, Elmira, N. Y.
Application October 9, 1930. Serial No. 487,388
5 Claims. (Cl. 267—54)



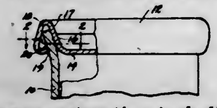
1. A spring hanger of the class described formed from a single unitary blank of sheet metal and comprising a flange adapted to engage the vertical web of an automobile frame, a base extending angularly from the flange and adapted to engage the lower flange of said frame and laterally separated eye-like portions adapted for the reception of spring attaching means depending below the base, and welding metal uniting the adjacent ends of said eye-like portion.

1,943,567
HAND PROTECTOR
Charles Tweedie, Jefferson City, Mo.
Application October 3, 1932. Serial No. 635,864
6 Claims. (Cl. 2—20)



1. A single ply leather hand protector comprising a free portion which widens for a distance from the mid portion thereof and thence narrows to the ends thereof and back portions continuous with said face portion and disposed substantially along the longitudinal axis thereof and secured thereto at said narrow mid portion to form a finger loop at each end.

1,943,568
CONTAINER END CONSTRUCTION
Richard P. Ware, Detroit, Mich., assignor to Package Improvement Company, Inc., Detroit, Mich., a corporation of Michigan
Application September 28, 1932 Serial No. 635,261
10 Claims. (Cl. 229—5.5)



1. A container construction including an open ended cylindrical body of relatively soft material, and an end therefore of relatively hard material, the end having a plate like closure portion and a channelled rim including an inner flange turned upwardly and tapering outwardly from the plate like portion, and an outer flange connected thereto at the upper edge thereof, and having an inwardly directed lower edge, the radial distance between the edge and the inner flange being considerably greater than the thickness of the body, the inner flange deflecting the body radially outwardly, from an annular line closely adjacent the lower edge of the outer flange and causing the body portion to be annularly grooved by and receive the lower edge of the outer flange.

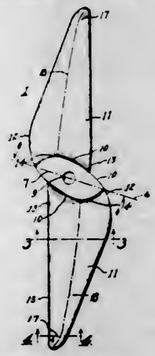
1,943,569
FLOAT-CONTROLLED VALVE
Frederick Henry Warner, Ipswich, England
Application March 27, 1931, Serial No. 525,794, and in Great Britain May 9, 1930
2 Claims. (Cl. 137—104)

1. Float-controlled mechanism for a liquid container, comprising the combination with a float and a receptacle surrounding the float provided with an overflow inlet of large area in relation to its capacity at the level of the predetermined upper limit of liquid level in the container and with an opening in the bottom thereof, of a tubular member mounted vertically within said opening, a low level float located below the tubular member, a disc-like valve member mounted on the low level float for controlling the lower end of the tubular member, a valve stem integral with the valve member, a guide within the tubular member for the valve stem, an upstanding annular wall around the upper face of the low level float and a drainage opening in said upstanding wall substantially at the level of the upper face of the low level float.

1,943,570
ACCELERATOR FOR THE VULCANIZATION OF RUBBER
Carl S. Williams, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application March 25, 1932 Serial No. 601,298
22 Claims. (Cl. 18—53)

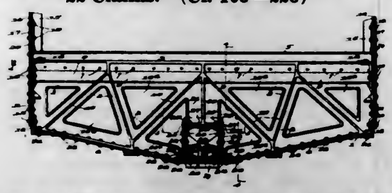
5. Method of removal of residual water from resin type of rubber vulcanization accelerators which comprises treating said accelerators with a chemical material capable of reacting with the water therein to produce a compound non-injurious to rubber.

1,943,571
PROPELLER
James H. Williamson, Little Falls, N. J.
Application October 22, 1931. Serial No. 570,315
11 Claims. (Cl. 170—159)



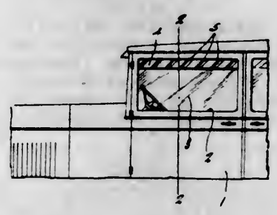
1. A propeller comprising a hub having outer surfaces cambered after the manner of an aerofoil, the aerofoil camber of said hub outer surfaces extending helically about the rotating axis of said propeller, and blades extending outwardly from said hub, said blades having forward surfaces merging into the cambered outer surfaces of the hub.

1,943,572
RAILWAY CAR
William E. Wine, Toledo, Ohio
Application March 29, 1929. Serial No. 351,013
22 Claims. (Cl. 105—228)



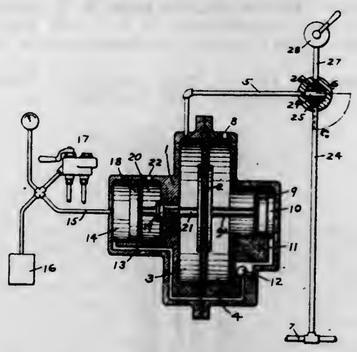
1. In a railway car having a floor, the combination with a center sill involving spaced beams each having an inwardly projecting top flange and an outwardly projecting bottom flange, and a cover plate secured to said top flanges, of a body bolster having a tension member interposed between said center sill and the floor for supporting the latter, said body bolster being provided with compression members extending outwardly in opposite directions from the sides of the center sill, the inner ends of said compression members being overlappingly supported upon and rigidly secured to the outwardly projecting bottom flanges of the center sill, the portions of the bolster adjacent the sides of the center sill being spaced outwardly from the latter, and a plate extending beneath the center sill and rigidly secured to the bottom flanges of the latter and to said compression members of the bolster.

1,943,573
VENTILATOR
Paul Wingert, Lorain, Ohio
Application February 1, 1933. Serial No. 654,710
2 Claims. (Cl. 98—2)



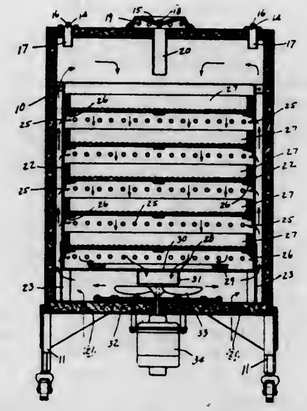
1. A ventilator for vehicles comprising an elongated, imperforate vertical plate mounted longitudinally on the inside of the upper portion of a window of the vehicle in spaced relation thereto, and fins mounted at longitudinally spaced points on the outer side of the plate, said fins being inclined upwardly and having their lower ends forwardmost.

1,943,574
FLUID PRESSURE BRAKE
Harry J. Winter, London, England, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application August 2, 1928, Serial No. 296,919, and in Great Britain August 27, 1927
7 Claims. (Cl. 303—4)



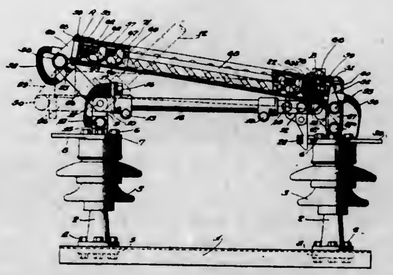
1. In a fluid brake equipment, the combination with a fluid pressure train pipe and a vacuum train pipe, of an equalizing reservoir, a brake valve device for venting fluid from said reservoir to effect a reduction in pressure in the fluid pressure train pipe and a valve device subject to the pressure in said reservoir and operated upon a reduction in pressure in said reservoir for supplying fluid to the vacuum train pipe.

1,943,575
INCUBATOR
Elmer T. Abendroth, Tipton, Ind., assignor to The Oakes Manufacturing Company, Inc., Tipton, Ind.
Application January 25, 1932. Serial No. 588,638
8 Claims. (Cl. 119—37)



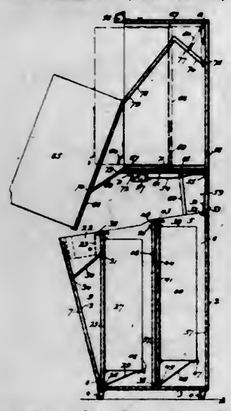
1. An incubator comprising a cabinet, a plurality of egg trays, perforated walls embracing and supporting said egg trays one above the other, means for supporting said walls in spaced relation with the walls of the cabinet, a heating element mounted in said cabinet centrally of and below the egg trays when in position, a fan intermediate said heating element and trays, and a motor for driving said fan, said fan being constructed and positioned in the cabinet to draw the air downwardly through said trays and force it laterally over the heating element into the space between the cabinet and perforated walls.

1,943,576
TWO INSULATOR HIGH TENSION SWITCH
Ernest E. Anderson, Chicago, Ill.
Application July 17, 1929. Serial No. 378,848
28 Claims. (Cl. 200—48)



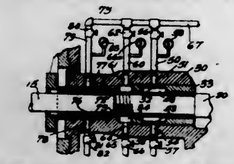
4. In an electric switch, a female contact member comprising a sheath having a plurality of sockets therein, balls disposed in said sockets and projecting past the inner wall of said sheath, current carrying strips secured to said sheath and engaging said balls, resilient means for forcing said strips and balls inwardly, and a male contact member for engaging said balls.

1,943,577
FILING CABINET
Zemach Auerbach, New York, N. Y.
Application August 2, 1929, Serial No. 383,002
Renewed June 10, 1933
25 Claims. (Cl. 45—2)



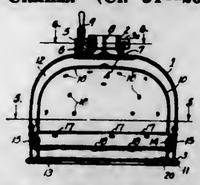
1. In a device of the class described, a cabinet having a compartment to contain holders, a door pivoted adjacent the lower portion of said cabinet to permit the upper end of the door to be swung forwardly from the cabinet, a plurality of holders adapted to lie in vertical planes in said compartment and to be raised relatively to said door into substantially horizontal position at the top of said door and means for guiding said holders when moving between their vertical and horizontal positions, said means including pivoted members and means forming a sliding connection between the pivotal members and said holders.

1,943,578
PRESSURE REDUCING SEAL FOR CENTRIFUGAL PUMPS
George E. Bigelow, Southgate, and Arthur R. Weis, Huntington Park, Calif., assignors of one-half to Pacific Pump Works, Huntington Park, Calif., a corporation of California
Application February 16, 1931. Serial No. 516,664
2 Claims. (Cl. 286—9)



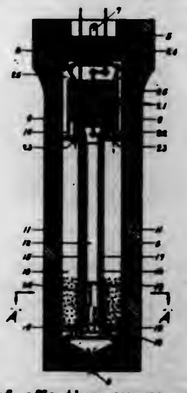
1. In a sealing device for sealing a rotatable member relative to a body containing high temperature, high-pressure liquid, the combination of: walls defining a bore through which said rotatable member extends and being of a greater diameter than said rotatable member whereby said walls are spaced from said rotatable member to define a throttle space, one end of which communicates with a high-pressure region of said body whereby the hot liquid in said body tends to enter said throttle space; walls defining a primary chamber communicating with the other end of said throttle space; means for supplying a liquid under pressure to said primary chamber; means for withdrawing liquid from said primary chamber whereby at least a portion of the discharge of said throttle space is removed with the liquid supplied to said primary space; walls around said rotatable member and spaced therefrom to define an auxiliary throttle space communicating with and receiving fluid from said primary chamber; walls defining an auxiliary chamber into which said auxiliary throttle space discharges; means for supplying a liquid under pressure to said auxiliary chamber; means for withdrawing liquid from said auxiliary chamber; means for maintaining the pressure in said primary chamber lower than the pressure in said high-pressure region and for maintaining the pressure in said auxiliary chamber below the pressure in said primary chamber; and packing means around said rotatable member for sealing said auxiliary chamber from the atmosphere.

1,943,579
HAIR DRYING HELMET
Charles E. Blomquist, Kansas City, Mo., assignor to Butler Manufacturing Company, Kansas City, Mo., a corporation of Missouri
Application July 25, 1932. Serial No. 624,454
5 Claims. (Cl. 34—26)



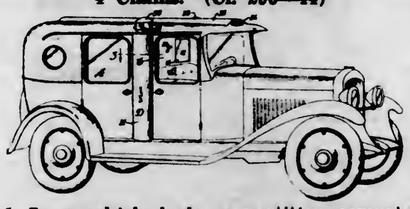
4. A hair drying helmet comprising in combination an outer member, an inner perforated member having a lower edge and telescoped therein in spaced relation thereto and forming an air manifold therewith, said inner member being formed with a plurality of reentrant portions near the lower edge thereof, said reentrant portions being provided with a plurality of perforations on the inner slope thereof whereby air from said manifold is adapted to be directed upwardly, and an air inlet to said manifold.

1,943,580
PROCESS FOR CONDUCTING CATALYTIC REACTIONS
Mortimer J. Brown, Niagara Falls, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, a corporation of Delaware
Application July 17, 1929. Serial No. 378,892
2 Claims. (Cl. 23—289)



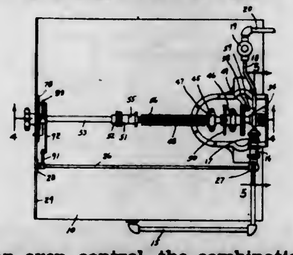
2. Process of effecting vapor phase catalytic reactions which comprises introducing reactant gases into a pressure sustaining bomb, causing said gases to pass in contact with the inner side of the pressure sustaining walls of the bomb, thence passing the gases in heat exchange relationship within the bomb with outgoing gases, passing the partially heated gases over a preheater and causing said preheated gases to enter a single catalyst mass at a plurality of adjacent places distributed along the main line of flow of reacting gases with the catalyst mass.

1,943,581
VEHICLE BODY CONSTRUCTION
Cora A. Butler, Chicago, Ill.
Application March 26, 1930. Serial No. 438,954
4 Claims. (Cl. 296—44)



1. In a vehicle body, a partition comprising two panels in spaced relation, the panels having aligned openings therein, the partition dividing the body into front and rear compartments, windows having notches in one edge slidably mounted between the panels and adapted to open or close the openings, spring means attached to the windows tending to keep them in closed position, a spring-pressed latch adapted to engage the notches in the windows and hold them in open position, and means extending from the latch into the front compartment for releasing the latch from the windows.

1,943,582
OVEN CONTROL
Alden P. Chester and Dewey H. Hill, Kokomo, Ind., assignors to Globe American Corporation, Kokomo, Ind., a corporation
Application February 15, 1932. Serial No. 592,970
6 Claims. (Cl. 126—39)



1. In an oven control, the combination of an oven chamber having a vent opening adjacent the rear thereof, a closure for said vent opening, a burner for heating said oven, a fuel supply pipe leading to said burner, a pair of valves in said fuel supply pipe located adjacent said vent closure, a rockably mounted shaft extending from a position adjacent said vent opening and said valve to a position adjacent the front of the oven, connections between said shaft and said vent closure and between said shaft and one of said valves for opening said closure and said valve when said shaft is in one position and for closing the same when said shaft is in another position, thermostatically operated mechanism for moving said shaft to close said closure and said valve when a predetermined temperature is reached in the oven, a second shaft extending from a position adjacent said valves to a position adjacent the front of the oven, connections between said last mentioned shaft and the other of said valves for regulating the opening of said last mentioned valve, a lever rockably mounted upon the first of said shafts adjacent the forward end thereof, and a connection between said lever and said last mentioned shaft for moving the same when said lever is moved.

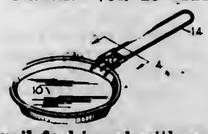
1,943,583
METHOD OF REFINING LIQUID HYDROCARBONS
Gerald C. Connolly and Albert F. Wurzbacher, Baltimore, Md., assignors, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland
No Drawing. Application May 22, 1931
Serial No. 539,408
11 Claims. (Cl. 196—23)

2. In refining liquid hydrocarbons, the steps comprising, treating said hydrocarbon at a slightly elevated temperature with an agent to form a sludge, separating the heavy sludge, introducing steam into direct contact with said treated hydrocarbon at a temperature at which said steam condenses, and settling out the condensed steam and remaining sludge collected thereby.

1,943,584
INORGANIC GEL COMPOSITION
Roy Cross, Kansas City, Mo., assignor to Silica Products Co., Kansas City, Mo., a corporation of Delaware
No Drawing. Application March 28, 1929
Serial No. 350,823
7 Claims. (Cl. 252—6)

3. A composition of matter comprising bentonite and calcined dolomite, the latter constituent ranging from five-tenths per cent to ten per cent of the bentonite.

1,943,585
DETACHABLE HANDLE FOR COOKING UTENSILS
Norman W. Cummins and John Adolph Johnson, Louisville, Ky.
Application November 30, 1931
Serial No. 577,976
5 Claims. (Cl. 16—114)

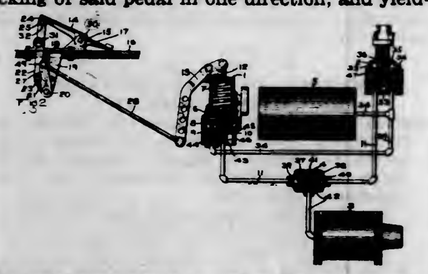


1. In a utensil fashioned with an integral extension provided with wings, a removable handle, the attaching or inner end of which has a pair of spaced parallel depending free arms adapted to engage and contact the surface of said utensil, said handle being equipped with a sliding jaw member adapted to cooperate with said wings and slidably wedge said handle onto said extension.

1,943,586
PEDAL LOCKING DEVICE
Joseph M. Dapron, St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application August 15, 1930. Serial No. 475,517
10 Claims. (Cl. 74—81)

1. In a control mechanism, the combination with a fixed bracket, a shaft rotatably carried by said bracket, an arm secured to said shaft operable to rotate said shaft, a pedal for operating said arm, said pedal being rockably mounted on

said bracket and operatively connected to said arm, another arm secured to said shaft and adapted to be operated thereby, a rod operatively connected to said arm and to means adapted to be controlled, said arms, shaft and rod being operable to a predetermined control position upon the rocking of said pedal in one direction, and yield-

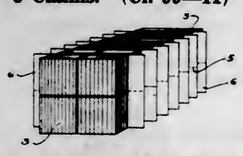


able resistance means opposing the operation of the mechanism, the axis of the connection between said other arm and the rod being moved past the axis of the shaft in the operation of the mechanism to said predetermined control position for holding the mechanism in said predetermined position against the opposing force of said yieldable resistance means.

1,943,587
BUTTER PACKING

Elmer M. Davis, Chicago, Ill., assignor to Swift and Company, Chicago, Ill., a corporation of Illinois

Application May 20, 1932. Serial No. 612,425
3 Claims. (Cl. 99—11)

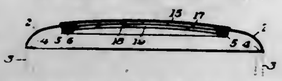


1. A cake of butter subdivided into chips or pieces for individual service, and separators interposed between the chips or pieces to facilitate separation when required, said separators being waxed on one side and unwaxed on the other.

1,943,588
ROOF STRUCTURE

Howard J. Dinstbir, Butler, Pa.

Application December 9, 1931. Serial No. 579,843
3 Claims. (Cl. 296—137)



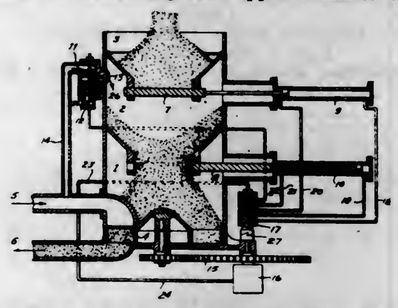
1. In combination with a car body, a metallic roof therefor, and a rubber shock absorbing and compensating means between said roof and said car body, said rubber means being substantially L-shaped in cross-section, one portion of the L being relatively thicker than the other portion.

1,943,589
APPARATUS FOR BACKFILLING AND THE LIKE

Georg Domina, Berlin, Germany, assignor to Cement Gun Company, a company of Delaware

Application August 26, 1933, Serial No. 687,021, and in Germany August 16, 1932
3 Claims. (Cl. 302—55)

1. In backfilling apparatus and the like for transporting loose material by a high pressure air current, an upper chamber, a lower chamber, an upper door to close the top of the upper chamber, a lower door to separate the upper chamber from the lower, a feed wheel provided with pockets and located beneath the lower chamber, a main air supply pipe having an outlet across which said pockets pass in succession, an air duct connecting the main air line with the upper chamber, controlling means in said air duct operable for connecting said upper chamber with

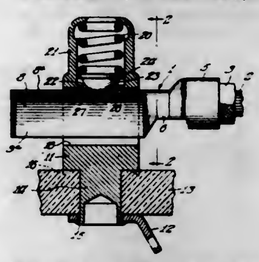


the main air line to equalize the pressure in the two chambers before charging the lower chamber or for shutting off the upper chamber from the main air line and connecting it with the outside air for venting purposes before charging the upper chamber, air operated devices for said doors and the controlling means in said air duct, an air control device connected with said air operated devices to control the supply thereto of compressed air, and an air motor for operating said feed wheel and said air control device.

1,943,590
SNAP TERMINAL

Harry A. Douglas, Bronson, Mich.

Application March 14, 1932. Serial No. 598,576
8 Claims. (Cl. 173—328)



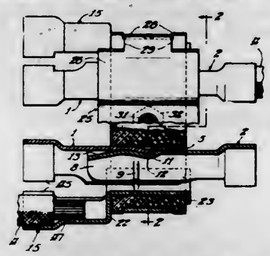
2. In a structure of the class described, the combination with a triangular metallic plug; of a metallic block having a triangular slot therethrough to telescopically receive said plug, said slot having an opening at one vertex of the triangle to receive one corner of the triangular plug; and a resilient detent carried by the block pressing the plug laterally into the opening and wedging the plug in said slot.

1,943,591
ELECTRICAL CONNECTER

Harry A. Douglas, Bronson, Mich.

Application March 19, 1932. Serial No. 599,930
7 Claims. (Cl. 173—328)

1. In an electrical connecter, the combination of an insulating block having a bore therein and two symmetrical telescoping metallic members received in said bore, and a third metallic member complementary in form to the first two

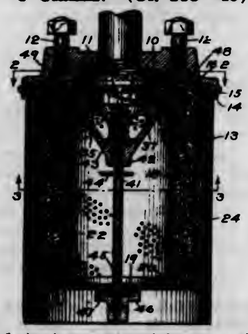


members and wedged between one of said telescoping members and the wall of said bore.

1,943,592
AIR STRAINER

Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application November 24, 1931
Serial No. 576,995
8 Claims. (Cl. 183—49)



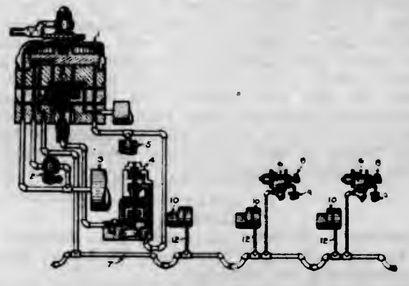
1. A fluid strainer comprising a casing, a strainer element adapted to be releasably secured in said casing, said strainer element comprising a perforated core, a sheet of pervious straining material adapted to be wrapped about said core, means for releasably retaining said material on said core, said means comprising a perforated flexible element adapted to surround said straining material, clamping means on said perforated flexible element operable to releasably retain said material on said core, and means for yieldably retaining said strainer element in said casing.

1,943,593
FLUID PRESSURE BRAKE

Ellery R. Fitch, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application July 29, 1932. Serial No. 625,632
6 Claims. (Cl. 303—38)

1. In a fluid pressure brake, the combination with a brake pipe and a brake controlling valve device operable upon a reduction in brake pipe pressure for effecting an application of the brakes, of a valve mechanism separate from said brake controlling valve device and operable to effect a local reduction in brake pipe pressure, said mechanism comprising a control chamber normally charged with fluid under pressure from the brake pipe, valve means subject to the opposing pressures of the brake pipe and control chamber operable upon a light reduction in brake pipe pressure at a predetermined rate to a position for venting fluid under pressure from the brake pipe to effect a local reduction in brake pipe pressure, a valve operative to a position for venting fluid under pressure from the brake pipe, a piston subject to the opposing pressures of the brake pipe and control reservoir operable upon a reduction in brake pipe pressure for actuating said valve, a passage around said piston through

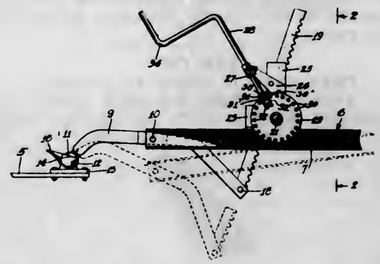


which fluid under pressure is supplied from the brake pipe to the control chamber and adapted to be closed upon the initial movement of said valve, means operative upon further movement of said valve for venting fluid under pressure from the control chamber and means operative upon still further movement of the valve for venting fluid under pressure from the brake pipe, and means for yieldably opposing the final movement of the valve.

1,943,594
COMBINED CONNECTING AND ADJUSTING DEVICE

John H. Flatley, Little York, Ill., assignor to Brown Lynch Scott Co., Monmouth, Ill., a corporation of Illinois

Application April 24, 1931. Serial No. 532,512
10 Claims. (Cl. 280—33.44)

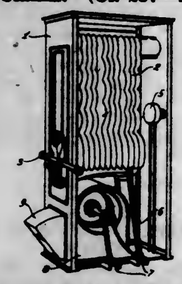


6. The combination with a tractor drawbar and an implement drawbar, of a draft lever having the medial portion thereof pivotally connected to the implement drawbar and including depending end portions, means connecting one of said end portions to the tractor drawbar, a rack connected to the other of said end portions, a pinion meshed with said rack, a disc movable with said pinion and having a plurality of pins thereon, and means engaged with said pins for rotating said disc and for holding said disc against movement to thereby move said rack to move said draft lever into different angular positions with respect to the implement drawbar.

1,943,595
HARDENED ALLOY STEEL AND PROCESS OF HARDENING SAME
Francis B. Foley, Philadelphia, Pa.
No Drawing. Application September 26, 1931
Serial No. 565,495
5 Claims. (Cl. 148—21.5)

1. The process of hardening alloy steel containing substantial but minor proportions of nickel and aluminum not exceeding a combined percentage of 30% which comprises heating the steel to such temperature below its Ac_1 as will cause the solution of the nickel and aluminum in ferrite and cooling at such rate as will retain the nickel and aluminum in solid solution, and then reheating to a temperature at least 300° F. below its Ac_1 and cooling, the time and temperature of reheating and rate of cooling being such as will cause nickel and aluminum to form and retain a new crystalline phase imparting greatly increased hardness.

1,943,596
HEATER
Clarence S. Franke, St. Louis, Mo., assignor to American Furnace Company, St. Louis, Mo., a corporation of Missouri
Application August 24, 1931. Serial No. 558,920
6 Claims. (Cl. 257—137)



2. A heater, comprising, a casing, a heating element therein, means for forcing air downwardly through said casing, means for preventing upward circulation of air through said casing, and means controlling the operation of said air-forcing means in accordance with the temperature in said casing.

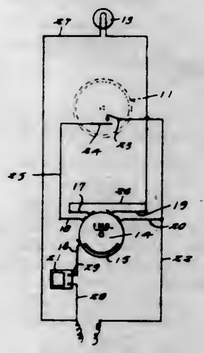
1,943,597
PROCESSING SHINGLE SHAKE
Ernest E. Gilmer, Portland, Oreg.
Application April 8, 1932. Serial No. 604,033
5 Claims. (Cl. 144—309)



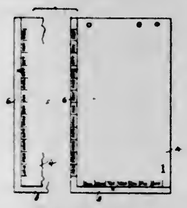
1. The process of manufacturing imitation shingle shakes by subjecting the weather surface of a planed shingle to two separate grooving processes for forming grooves of different depths and different widths of ribs between said grooves.

1,943,598
ALARM MECHANISM FOR CLOCKS
David S. Gourley, Lynchburg, Va.
Application April 30, 1931. Serial No. 534,033
1 Claim. (Cl. 58—19)

In a structure of the character described, a time controlled switch, a lead-in wire therefor, a return wire, a manually rotatable switch, an electric lamp, an electrically actuated alarm, the alarm on one side being electrically connected to the return wire and on the other side being connected to an alarm contact, the electric light being connected on one side to the return wire and on its other side to two spaced lamp contacts, the time controlled switch being connected on one side to the lead-in wire and on its other side to a contact, all of the contacts coacting with and bearing against the rotatable switch, the rotatable switch having a metal segment of a length such as in one position of the switch to electrically connect the alarm contact and the return contact of the time switch, in another position to electrically connect the return contact of the time switch, one of the lamp contacts and the alarm contact, and in another position of the switch to electrically connect one of the lamp contacts to the lead-in wire and the time switch contact.

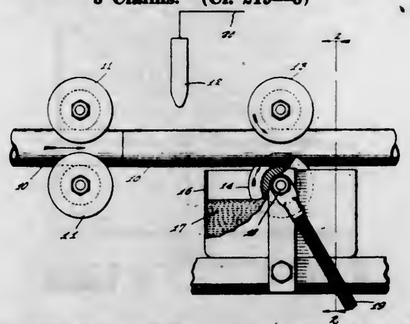


1,943,599
CALENDAR PAD
Roy M. Hall, Long Lake, Ind.
Application October 30, 1931. Serial No. 572,104
4 Claims. (Cl. 283—2)



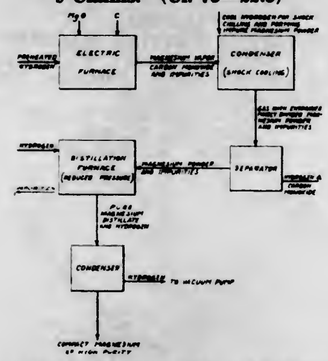
1. In calendar pads, a plurality of sheets consecutively numbered from 1 to 31 inclusive each sheet having printed alongside one edge the seven days of a week in register with each other from sheet to sheet and in consecutive advancing order from sheet to sheet, a support on which the sheets are assembled said support projecting from beneath the sheets adjacent the names of the days of the week, and also projecting adjacent another edge of the sheets on which edge indicia representing the twelve months of a year are imprinted both projecting edges adapted to receive pencil or other indications adjacent a selected month, and adjacent the day of the week corresponding to the first day of the selected month.

1,943,600
WELDING MACHINE
Bertis F. Hamilton, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application July 29, 1932. Serial No. 625,752
3 Claims. (Cl. 219—8)



1. In a continuous arc-welding machine, a pair of superposed rollers between and in contact with which the article being welded is fed as it is welded, a tank associated with the lower of said rollers, a supply of conducting liquid in said tank, the parts being arranged so that the lower roller dips into said liquid, and an electrical connection to said lower roller, said liquid being sufficiently viscous to adhere to the lower roller as it rotates whereby said liquid will be carried into contact with the article being welded.

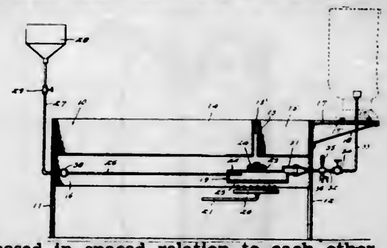
1,943,601
PRODUCTION OF METALLIC MAGNESIUM
Fritz Hansgirg, Radenthein, Austria, assignor to American Magnesium Metals Corporation, Pittsburgh, Pa., a corporation of Delaware
Application February 27, 1931, Serial No. 518,915, and in Austria August 4, 1930
9 Claims. (Cl. 75—22.5)



1. A process of producing magnesium which comprises extracting magnesium in finely divided form from its compounds and then distilling the thus formed magnesium under reduced pressure and in contact with an indifferent gas.

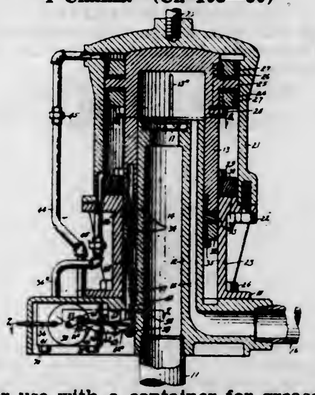
1,943,602
STEAM VAT FOR CREAMERY USE
Everett H. Harrison, Wichita, Kans.
Application December 6, 1932. Serial No. 646,021
4 Claims. (Cl. 141—7)

1. A can cleansing means comprising a steam generator, a burner below the generator, a cleansing basin supported above the generator for heating of a liquid therein coactive with the generation of steam in the generator, and means supported at one end of the basin and connected to the generator for cleansing the interior of a can, said basin comprising two compartments



disposed in spaced relation to each other, the space between the two compartments being disposed above the generator and receiving heat therefrom to heat the confronting walls of the compartments.

1,943,603
GREASE PUMPING MECHANISM
George H. Hartman, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application December 15, 1930
Serial No. 502,461
4 Claims. (Cl. 103—50)

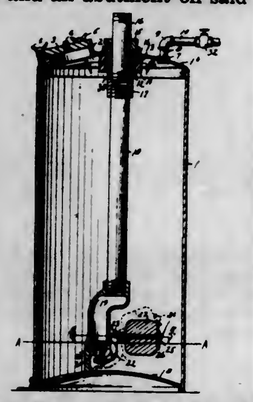


1. For use with a container for grease or the like, a stationary tubular piston having an intake end extending into said container, a tubular plunger over said piston, a stationary cylinder over said tubular plunger and enclosing the end thereof opposite said intake end, means for reciprocating said tubular plunger relative to said tubular piston and said cylinder, a passageway through said piston from the inner end thereof to a point beyond one limit of travel of said plunger through which grease may be expelled from between said piston and said tubular plunger.

1,943,604
GREASE DELIVERY DEVICE
George H. Hartman, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application April 6, 1931. Serial No. 528,015
9 Claims. (Cl. 221—74)

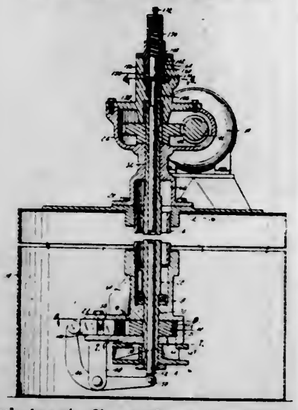
1. In a grease delivery device, a container having a top provided with an opening, a removable shoulder element in said opening, a discharge tube extending removably through said opening

and through said shoulder element to a point near the bottom of said container, a tubular retainer fixed in said opening and spaced from said shoulder element and an abutment on said discharge



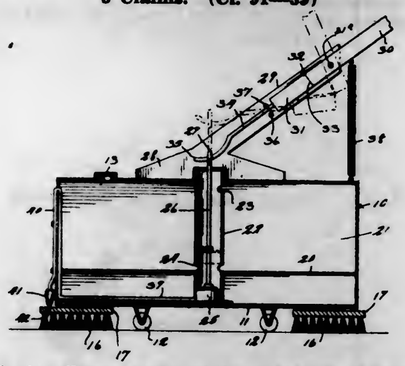
tube engaging the inner end of said shoulder element to lock said tube against sliding movement outwardly through said opening and shoulder element.

1,943,605
GREASING APPARATUS
George H. Hartman, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application November 23, 1931
Serial No. 576,689
12 Claims. (Cl. 221—47.1)



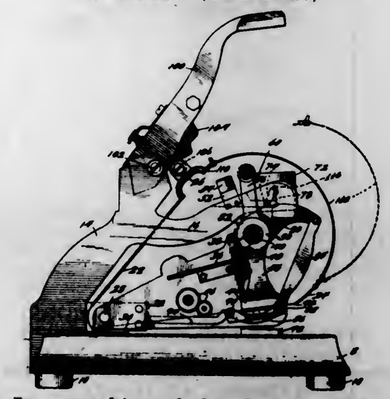
1. A lubricant dispensing structure comprising first, second and third stage pumps, a discharge nozzle, means for normally causing dispensation of a large volume of lubricant therethrough at low pressure by said second stage pump, said third stage pump being operative to pump a small volume of lubricant through said discharge nozzle at high pressure upon the lubricant encountering a predetermined resistance during dispensation from said discharge nozzle and means operated by the increased pressure of the lubricant in said nozzle for rendering said second stage pump ineffective as a pump and operable only as a movable element in the lubricant flowing from said first stage pump to said third stage pump upon such operation of said third stage pump.

1,943,606
FLOOR OILER AND WAXER
Edgar F. Hawley, Pueblo, Colo.
Application March 25, 1933. Serial No. 662,775
5 Claims. (Cl. 91—39)



1. An oiler or waxer of the character described including a tank for containing liquid, brushes carried upon the under side of the tank, a pump having its cylinder operatively connected to the interior of the tank and having a discharge pipe provided with a sprayer, a plunger operating within the pump cylinder, means for operating the plunger including a handle whereby the oiler may be pushed and pulled, said handle being pivotally supported upon the top of the tank and having an operative connection to the plunger, the movement of the handle in one direction away from its normal position upon its pivot acting to raise the plunger and permit the passage of liquid from the tank into the space beneath the plunger and in the other direction to normal position acting to depress the plunger and force out the liquid on to the brushes.

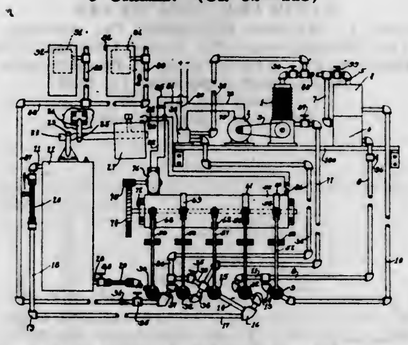
1,943,607
SIGNATURE WRITING MACHINE
Herbert R. Hedman, Chicago, Ill., assignor to Hedman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 23, 1927
Serial No. 221,458
10 Claims. (Cl. 101—20)



1. In a machine of the class described, the combination of a platen having an irregular surface, a die having a surface complemental to the surface of said platen and adapted to co-operate

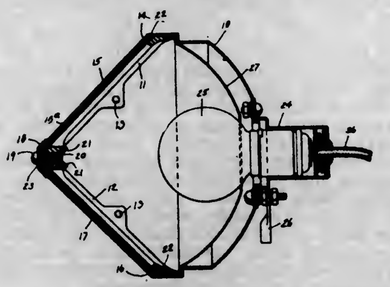
therewith to make an impression upon a piece of paper positioned therebetween, means for aligning said die with said platen, and key controlled locking means to prevent removal of said die from the machine.

1,943,608
REFRIGERATION SYSTEM
Paul G. Hollinger, Chicago, Ill.
Application September 23, 1929
Serial No. 394,705
9 Claims. (Cl. 62—115)



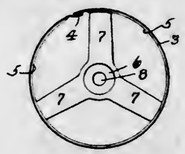
1. In a refrigeration system, a movable, liquid-refrigerant receiver, a cooling unit, valve-controlled connections between the receiver and said cooling unit, and power means influenced by the movement of said receiver when the latter has been provided with a definite amount of refrigerant liquid for causing a movement of the latter within the system.

1,943,609
AIRPLANE LANDING LIGHT
Samuel W. Hyatt, Columbus, Ohio
Application October 3, 1932. Serial No. 635,912
4 Claims. (Cl. 240—7.7)



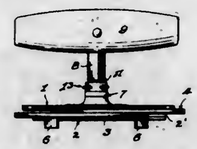
1. In an airplane landing light, the combination of a lamp casing having a forward portion with an upwardly and rearwardly inclined upper face and a downwardly and rearwardly inclined lower face, a lamp in said casing, a reflector in said casing directing light from said lamp in a beam toward said forward casing portion, a lens in the lower face of said forward portion permitting passage of a portion of said beam without substantial apparent change of direction as viewed in side elevation, and means mounted in said upper face for intercepting another portion of said beam and for redirecting the same downwardly through said lens, said means being formed to maintain said portion in a beam of apparently substantially parallel rays as viewed in side elevation and said lens being formed to permit passage thereof without substantial apparent change of direction as viewed in side elevation.

1,943,610
GOLF HOLE CUP OR RIM
Albert J. John, Brookfield, Ill.
Application February 28, 1931. Serial No. 518,952
2 Claims. (Cl. 273—34)



1. A golf cup comprising a radially yieldable shell member; a perforated hub member insertable in said shell member; and widely separated interlocking elements on said hub and shell members, there being spaces between the intermediate portions of said hub and shell members to permit inward movements of said intermediate portions of said shell member under outward tension from said locking elements on said hub member.

1,943,611
JAR-COVER WRENCH
John F. Johnson, Peoria, Ill.
Application October 6, 1932. Serial No. 636,479
14 Claims. (Cl. 81—3.1)

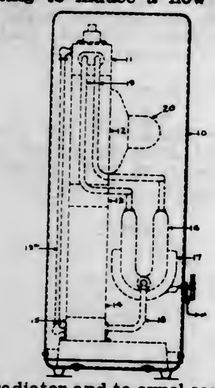


1. A wrench including in its construction a pair of members capable of movement in opposite directions with respect to each other, each including a pair of spaced legs and a jaw, and an adjustable operating member adapted for simultaneously operatively engaging either leg of one of the members and an opposite leg of the other of the members whereby in a movement of said operating member the said pair of members will be moved in said opposite directions.

1,943,612
HEATER
Donald W. Lake, Chicago, Ill.
Application September 9, 1929, Serial No. 391,244
Renewed September 29, 1932
2 Claims. (Cl. 257—137)

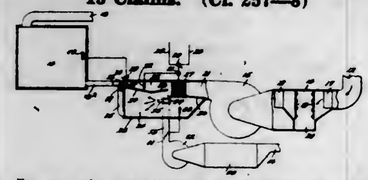
1. In a heat exchanging device, a casing having a bottom, top and sides, one of said sides having an opening therein, a radiator positioned adjacent the aforesaid opening in the upper portion thereof, a second radiator operatively connected to said first radiator and disposed immediately below same, a water tank connected to said second radiator, means for effecting circulation of the heat exchanging medium through said radiators and a fan positioned within said

casing and rearwardly of said first radiator, said fan operating to induce a flow of air through



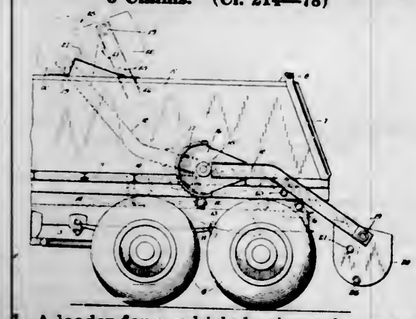
the lower radiator and to expel same through the upper radiator.

1,943,613
AIR CONDITIONING SYSTEM
Samuel R. Lewis, Chicago, Ill., assignor, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland
Application November 2, 1931. Serial No. 572,685
15 Claims. (Cl. 257—8)



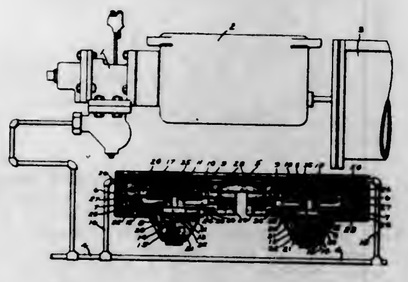
1. In an air conditioning system, in combination, a pair of air chambers, means to deliver air into one of said chambers, means in said chamber to lower the dry bulb temperature of the air delivered thereto, means discharging the colder portion of said cooled air into the other chamber, means to mix air from the two chambers to produce a desired temperature and delivery means for said mixture to a room to be cooled.

1,943,614
TRUCK LOADER
William E. McCarron, Chicago, Ill.
Application October 19, 1931. Serial No. 569,727
8 Claims. (Cl. 214—78)



1. A loader for a vehicle having a frame and a truck body pivoted thereon and power means at the sides of the frame, comprising loading arms at the sides of the truck body and a pivot support for the arms engaging the driving means only when the truck body is in load carrying position, a loading receptacle movable with the arms and pivoted therebetween, projections on the receptacle below the pivotal mounting thereof and an inclined bracket at the top of the truck body to engage first one and then the other projection in overturning the receptacle.

1,943,615
FLUID PRESSURE BRAKE
Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application September 11, 1930
Serial No. 481,270
8 Claims. (Cl. 303—82)



1. In a fluid pressure brake, the combination with a brake pipe, of two quick action valve mechanisms, each valve mechanism having one side communicating with the brake pipe at one point in the brake pipe through a communication which permits the substantially free flow of fluid from said valve mechanism to the brake pipe, and having the opposite side communicating with the brake pipe at another point in the brake pipe, through a communication which permits the substantially free flow of fluid from the valve mechanism to the brake pipe, each valve mechanism being therefore subject to opposing fluid pressures continually varying according to variations in fluid pressure at different points in the brake pipe and operated upon creation of a differential between said opposing pressures for venting fluid from the brake pipe, one valve mechanism being operative upon an emergency rate of reduction in brake pipe pressure initiated at one point in the brake pipe and the other valve mechanism being operative upon an emergency rate of reduction in brake pipe pressure initiated at another point in the brake pipe.

1,943,616
REFRIGERATION APPARATUS
Ernest B. Miller, Baltimore, Md., assignor, by mesne assignments, to Chester F. Hockley, Receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland
Application June 11, 1930. Serial No. 460,520
25 Claims. (Cl. 62—5)

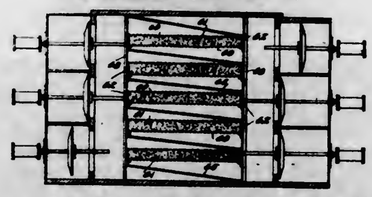
1. In a refrigeration device, in combination, a plurality of adsorbers, a casing housing said adsorbers and having means separating them, a burner in said casing beneath said means to heat

said adsorbers, and means to direct the heat therefrom to one adsorber at a time, said last



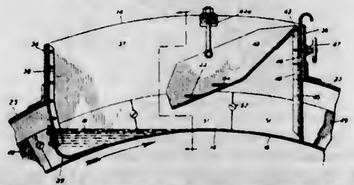
mentioned means deflecting air for cooling over another adsorber.

1,943,617
ADSORBER
Ernest B. Miller, Baltimore, Md., assignor, by mesne assignments, to Chester F. Hockley, Receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland
Application November 13, 1930
Serial No. 495,474
8 Claims. (Cl. 183—4)



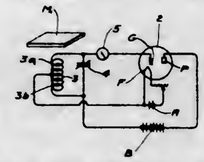
6. An adsorber including, in combination, a casing, top, bottom, and side walls therefor, a barrier of adsorbent material between the ends of said casing, a tower at each end of the casing, each tower including a wall closing the casing end, and a plurality of duct sections, each of said tower walls having a post therethrough for each duct.

1,943,618
DRYING FILTER
Charles W. Moore, St. Clair, and Carlton W. Crumb, Detroit, Mich., assignors to Oliver United Filters Inc., San Francisco, Calif., a corporation of Delaware
Application January 4, 1932. Serial No. 584,650
3 Claims. (Cl. 210—199)



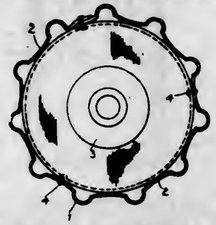
1. Filtration apparatus comprising a rotary filter drum, an enclosing casing therefor open at the top to uncover the zenith of the drum, a feed hopper carried by said casing forming the boundaries of said opening having upstanding side walls, means depending from one of said walls for maintaining a pool of filtrant on top of said drum but to the rising side of the zenith thereof, and an inclined filter feed deflector supported from one of said walls for feeding filtrant to said pool in a direction opposite to the rotation of said drum.

1,943,619
METHOD AND APPARATUS FOR TESTING MATERIALS
William Alvin Mudge and Clarence George Bieber, Huntington, W. Va.
Application January 10, 1927. Serial No. 160,287
3 Claims. (Cl. 175—183)



1. The method of measuring the property of a magnetic material which comprises bringing an oscillating circuit to a condition approaching resonance, introducing a piece of the magnetic material to be tested into an electromagnetic field generated by said oscillating circuit to vary the tuning of said circuit, and detecting such variation in the tuning of said circuit.

1,943,620
LAND WHEEL
James Daniel Murray, Lakemba, New South Wales, Australia
Application May 31, 1933, Serial No. 673,593, and in Australia May 20, 1932
1 Claim. (Cl. 301—40)

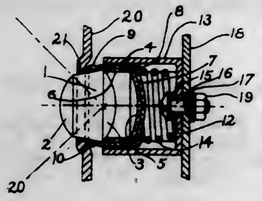


As a new article of manufacture, a land wheel having a rim portion formed with a series of semi-cylindrical cogs projecting from its circumference, said cogs being connected by sections having a curvature struck from a point outside the circumference of the wheel on a radius equal to that of the wheel, said sections having a length greater than the diameter of the semi-cylindrical cogs.

1,943,621
LIGHT REFLECTING DEVICE
Charles A. Persons, Worcester, Mass., assignor to Persons - Majestic Manufacturing Company, Worcester, Mass., a corporation of Massachusetts
Application January 23, 1929. Serial No. 334,506
2 Claims. (Cl. 88—1)

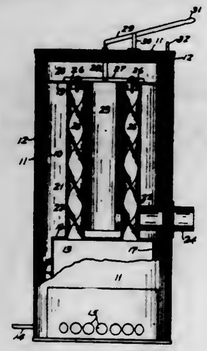
1. A light reflecting unit, comprising a double convex lens having a frusto-conical body between its convex surfaces, a hollow cylindrical housing having one end closed and its other open end initially of such diameter as to receive and close-

ly encircle the large end of said lens, a concave reflector at the closed end of said housing and a cylindrical flange closely fitting the wall of said housing for uniformly spacing the larger convex surface of said lens from said reflector



with the circular rim of said flange abutting the larger convex lens surface to positively position said lens within said housing in cooperation with a contracted portion of the housing closely encircling the frusto-conical body of the lens.

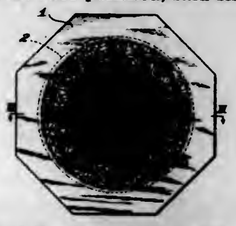
1,943,622
HEATING APPARATUS
Howard I. Platt, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application June 27, 1932. Serial No. 619,451
3 Claims. (Cl. 122—379)



1. Heating apparatus including in combination a combustion chamber, a plurality of passageways communicating therewith and through which the exhaust gases formed therein are discharged, a deflector disposed within each of said passageways to retard the flow of exhaust gases therethrough, a rack loosely connected to each of said deflectors, means for moving said rack whereby to impart a reciprocatory movement to the said deflectors, and means for limiting the movement of said rack whereby a series of sharp blows are imparted to the deflectors when they are reciprocated.

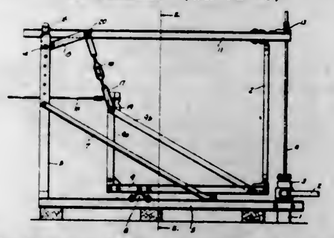
1,943,623
DECORATIVE REFLECTIVE ARTICLE
Francis Logan Porter, High Point, N. C., assignor to Logan Porter Mirror Company, a corporation of North Carolina
Application July 23, 1932. Serial No. 624,171
4 Claims. (Cl. 41—22)

4. A decorative reflective article comprising a glass plate, a sheet of thin, transparent regenerated cellulose cemented thereto having an ornamental design on its face next to the glass and having its rear face polished, said sheet covering



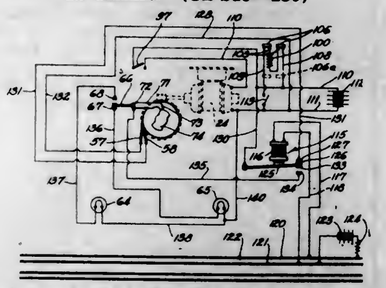
only a part of the face of the glass plate, and a precipitated metallic film covering the rear face of the sheet.

1,943,624
ATTACHMENT FOR PUMP JACKS
Erle M. Ramsey, Shiprock, N. Mex., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Application June 8, 1931. Serial No. 542,743
3 Claims. (Cl. 74—5)



1. In a pump jack assembly, the combination including a base, an upright supported by said base, a bell crank lever pivoted on said upright, a pumping beam pivoted to said lever, a pump rod connected to said beam, a jack pivotally mounted on said base, a link connecting said jack and said beam, and means interconnecting said jack and said lever whereby the pumping beam pivot is shifted to impart a straight line reciprocation to the pump rod.

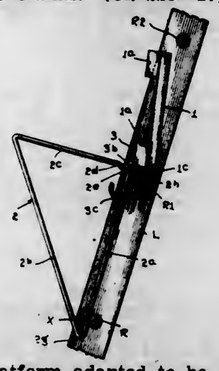
1,943,625
CROSSING SIGNAL
Daniel W. Richards, Roanoke, Va., assignor to Magnetic Signal Co., Los Angeles, Calif., a corporation of California
Application February 29, 1932. Serial No. 595,816
12 Claims. (Cl. 246—130)



1. A crossing signal of the character described, including: a supporting structure having a shield chamber with an opening at its lower end; a banner supported by said structure, said banner normally tending to reside in an exposed position

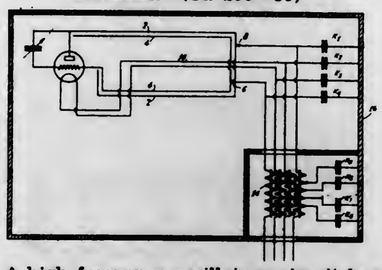
below said opening but being movable to a concealed position within said shield chamber; withdrawing means for moving said banner from exposed position to concealed position; releasable means for holding said banner in concealed position; control means associated with trackage for releasing said holding means when a railway vehicle is on said trackage, so as to permit said banner to move from concealed position to exposed position, and for actuating said withdrawing means when said vehicle leaves said trackage whereby to move said banner into concealed position; and means for producing heat within said shield chamber.

1,943,626
PLATFORM FOR USE WITH LADDERS, ETC.
Louis M. Richard, Woodbridge, Conn.
Application February 15, 1929. Serial No. 340,166
6 Claims. (Cl. 228—17)



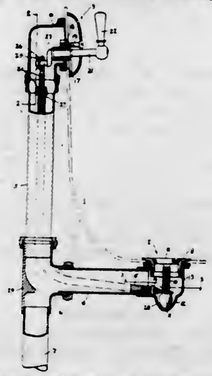
4. In a platform adapted to be used with a rung type ladder, a support comprising a metallic element shaped to form substantially parallel faces of similar geometric contour joined by a connecting member, the ends of said metallic element projecting under and beyond the connecting member joining the faces, the said ends being formed into rung engaging projections, and a platform carried by said support.

1,943,627
HIGH FREQUENCY OSCILLATOR
Horst Rothe and Hans Otto Roosenstein, Berlin, Germany, assignors to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application May 19, 1930, Serial No. 453,449, and in Germany June 1, 1929
4 Claims. (Cl. 250—36)



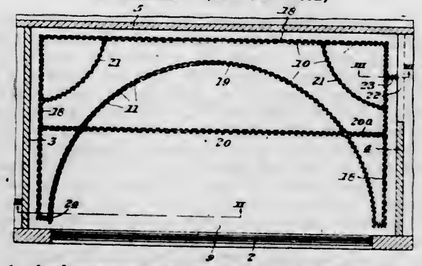
1. A high frequency oscillatory circuit having, in combination, an electron discharge device comprising an anode and a grid, an oscillatory circuit comprising two open ended, closely adjacent conductors, one of said conductors being connected with the grid, and the other of said conductors with the anode, the open end of the conductor connected to the anode being near the connection point of the other open ended conductor to the grid, and the open end of the conductor connected to the grid being near the end of the open ended conductor connected to the anode, said two conductors presenting such a high distributed capacity in relation to each other that they can be regarded as a single conductor from a radio frequency standpoint, a source of grid potential and a source of anode potential, and leads extending from said sources to the open ended conductors connecting with said grid and anode, said leads being adjustable with respect to the ends of said conductors.

1,943,628
DRAIN VALVE FOR BATHTUBS AND THE LIKE
Charles F. Schultis, Cleveland, Ohio, assignor to The Royal Brass Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 17, 1931. Serial No. 544,996
3 Claims. (Cl. 4—203)



1. In apparatus of the character described, the combination with a bathtub and the like having drain and overflow orifices, of a branched outfall conduit associated with said orifices, a valve for closing said drain orifice, a manipulating handle mounted to extend into said overflow orifice, an extensible coil spring operably connecting said handle and said valve, and an abutment on the inner periphery of said conduit at the point of convergence for guiding said spring during assembly.

1,943,629
SHOW WINDOW
Harold M. Schwartz, Pittsburgh Pa.
Application March 27, 1933. Serial No. 662,954
5 Claims. (Cl. 20—40.4)



1. A show window comprising a ceiling having a plurality of communicating tracks supported

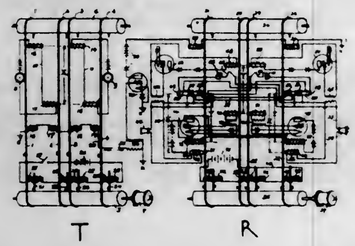
thereby, and a plurality of panels supported from at least one of the tracks and movable relative to each other along the tracks to form a window background.

1,943,630

MULTIPLEX TRANSMISSION

Erich Schwarzkopf, Jackson Heights, N. Y., assignor to Thomas W. Marshall, New York, N. Y.

Application February 24, 1930. Serial No. 430,594
13 Claims. (Cl. 179—15)



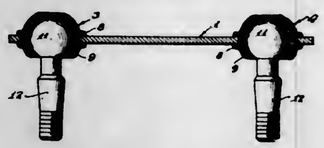
1. The method of simultaneously sending a multiplicity of messages over one transmitting means so that they may be completely separated from each other at the receiving end of said transmitting means, comprising, converting said messages into electric impulses suitable for transmission, telegraphonically recording said electric impulses, transmitting said electric impulses, and transmitting after a predetermined interval of time impulses of said messages reproduced from said telegraphonically recorded impulses.

1,943,631

METHOD OF FORMING A CONNECTING UNIT FOR SHOCK ABSORBERS AND THE LIKE

Newton Skillman, Detroit, Mich., assignor to O. & S. Bearing Company, Detroit, Mich., a corporation of Michigan

Original application July 5, 1929, Serial No. 376,657. Divided and this application October 31, 1931. Serial No. 572,339
16 Claims. (Cl. 29—149.5)



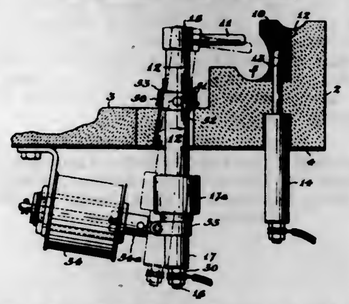
1. The method of forming bearings in an integral connecting unit for shock absorbers and the like, which comprises forming a link with spaced apertures, inserting in each aperture a bearing shell having a portion of its surfaces semi-spherical in shape and a portion cylindrical, the semi-spherical portion being closed in, deforming the walls of the bearing member to lock the same in position, inserting a cylindrical lubricant impregnated bushing inside the bearing member, inserting a ball joint within each bearing member and then deforming the cylindrical portion of each bearing member whereby to close the same in around the ball joint to form a substantially spherical bushing and a substantially spherical outer bearing shell.

1,943,632

LIQUID FUEL BURNING APPARATUS

William J. Smith, Lakewood, Ohio, assignor to Cleveland Steel Products Corporation, Cleveland, Ohio, a corporation of Ohio

Application June 24, 1931. Serial No. 546,504
11 Claims. (Cl. 175—115)



1. In a liquid fuel burning apparatus, a pair of spaced ignition electrodes providing an air gap across which a spark may be passed to ignite the fuel, and means for moving one of said electrodes relative to the other and into an efficient sparking position spaced from the other when the fuel is to be ignited and for maintaining said last mentioned electrode in such position during the ignition period.

1,943,633

PROCESS OF PREPARING ENZYMES

George Sperti, Covington, Ky., assignor to General Development Laboratories, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 8, 1931
Serial No. 507,532
4 Claims. (Cl. 99—11)

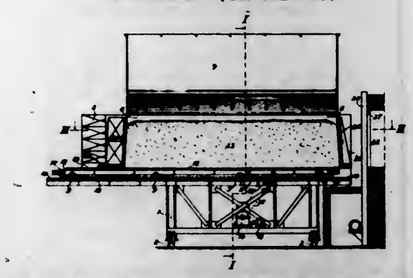
1. A process for producing a sterile enzyme which consists in irradiating growing enzyme-producing cereal plants with ultro-violet light to kill bacteria and the like while excluding from the light wave lengths short enough to cause injury to the plants and extracting the enzyme from said plants.

1,943,634

COKE OVEN CHARGING MACHINE

Carl Still, Recklinghausen, Germany

Application June 18, 1930, Serial No. 462,015, and in Germany June 20, 1929
5 Claims. (Cl. 214—18)



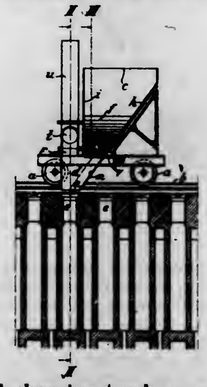
1. In a coke oven charging machine of the ramming type, a carriage travelling along the oven battery, a framing supported by said carriage, a ramming box carried by said framing, and means for moving the framing with the ramming box carried thereby in the direction of the oven axis and to such an extent that the front end of said box substantially adjoins the oven.

1,943,635

COAL CHARGING TRUCK

Carl Still, Recklinghausen, Germany

Application August 5, 1930, Serial No. 473,276, and in Germany August 9, 1929
6 Claims. (Cl. 214—18)



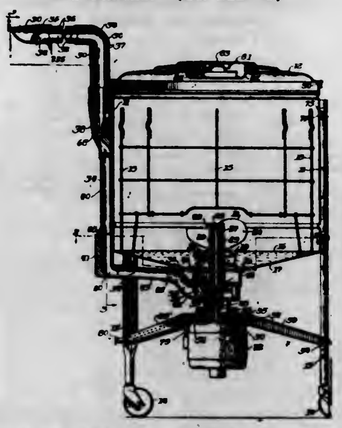
1. In a coal charging truck, a coal container having two plane opposite defining walls converging downwards, the one wall being substantially vertical and the other being inclined throughout their lengths, a closing slide at the bottom of the inclined wall which moves perpendicularly to and away from the vertical wall in opening and a second substantially vertical wall laterally displaced from the first vertical wall and projecting below the slide to form a portion of a charging duct.

1,943,636

DISHWASHING MACHINE

Edgar S. Stoddard, Berwyn, Ill., assignor to The Conover Company, Chicago, Ill., a corporation of Illinois

Application May 23, 1927. Serial No. 193,414
14 Claims. (Cl. 141—9)



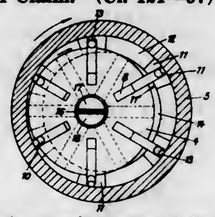
2. In a dishwashing machine, a tank having a draining bottom with an opening in the lower portion thereof, a dish holder in said tank, a rotatable spray projector in said tank having its lower portion operating in the upper portion of a pool of cleansing liquid in the tank to transfer the same to articles in the dish holder, means for rotating said spray projector, a well chamber depending from the bottom of said tank about the periphery of the opening therein, said chamber being located beneath the spray projector, means for supplying fresh cleansing liquid to the tank, a centrifugal pump in the well chamber, an outlet conduit communicating with said chamber through the wall thereof, and means for closing said outlet conduit during operation of the machine.

1,943,637

HIGH PRESSURE ROTARY ENGINE, ESPECIALLY FOR HYDRAULIC TRANSMISSIONS

Erwin Sturm, Stuttgart-Botnang, Germany

Application December 18, 1929, Serial No. 415,000, and in Germany May 18, 1928
1 Claim. (Cl. 121—57)



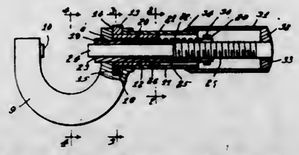
A rotary piston engine, comprising in combination a stationary outer casing, a rotary casing freely rotatable in said outer casing, a drum rotatable in said rotary casing forming therewith the working space of the engine, said rotary casing composed of a ring and two covers one on each side of said ring, said covers having annular grooves on their inner surface communicating with said working space, pistons shiftably mounted in said drum, running elements pivotably mounted one on the outer end of each of said pistons, guides in the annular grooves of said covers hingedly connected on both sides of said pistons adjacent their outer ends, the outer guide surfaces of said guides in said annular grooves being larger than their inner guide surfaces to allow said pistons to be pressed outwards by the fluid pressure and press said running elements tightly against said freely rotatable casing.

1,943,638

MICROMETER GAUGE

Edwin C. Swanson, Rockford, Ill.

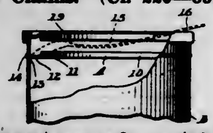
Application July 22, 1929. Serial No. 380,114
2 Claims. (Cl. 33—165)



1. A caliper of the character described having a yoke, an anvil attached to one end of said yoke, a cylindrical support attached to the opposite end of said yoke, a sleeve positioned in said support for slidable endwise movement, adapted to support a spindle in rapid movement toward and away from said anvil, said sleeve being provided with a longitudinal groove and a plurality of transverse grooves intersecting therewith, and manually operable means having a portion there-

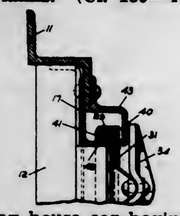
of adapted to rest in said longitudinal groove to permit endwise movement of said sleeve and to selectively engage said transverse grooves to prevent such movement, in either direction.

1,943,639
SPOON SUPPORT MEANS FOR CONTAINERS
Arthur Guy Thatcher, Boyle, Alberta, Canada
Application April 18, 1931. Serial No. 531,073
2 Claims. (Cl. 220—85)



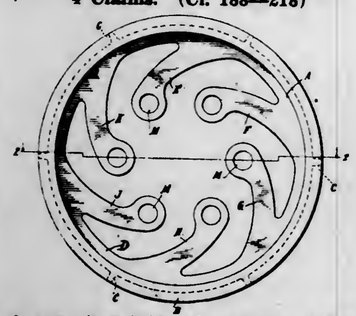
1. Spoon support means for containers comprising in combination with a container, of an insert of annular formation provided with a series of orifices and means formed in the container for retaining the said insert at a predetermined level therewithin.

1,943,640
CAR CONSTRUCTION
George R. Treptow, Chicago, Ill., assignor to Camel Company, Chicago, Ill., a corporation of Illinois
Application July 18, 1931. Serial No. 551,683
5 Claims. (Cl. 189—46)



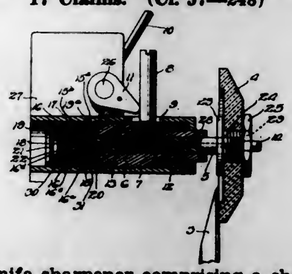
1. In a railway house car having a side door opening, a door post defining the rear of said door opening, a side plate defining the top of said opening and a header secured to said side plate and extending across said opening and beyond said door post, said post being coped to permit the extension of said header, said header comprising a trough positioned in the opening.

1,943,641
BRAKE DRUM
Stanley M. Udale, Detroit, Mich., assignor, by mesne assignments, to Erb-Joyce Foundry Company, Detroit, Mich., a corporation of Michigan
Application July 26, 1930. Serial No. 471,004
4 Claims. (Cl. 188—218)



1. A one-piece internal cast iron brake drum for motor vehicles comprising a braking, cylindrical portion having yieldable arms cast integral therewith, means at the inner ends of said arms for supporting said brake drum.

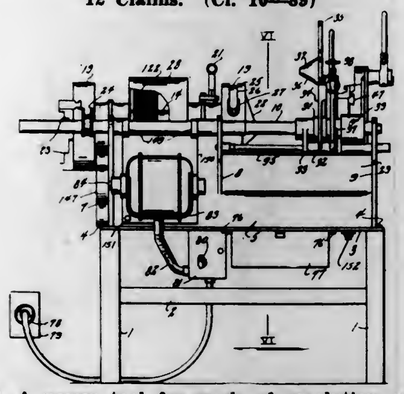
1,943,642
SHARPENER FOR SLICING MACHINES
Cornelis F. M. van Berkel, Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application December 4, 1929, Serial No. 411,662, and in Great Britain December 7, 1928
17 Claims. (Cl. 57—248)



1. A knife sharpener comprising a sharpening wheel, a spindle for carrying the same, a support for said spindle, means for locking said spindle in said support to hold the said wheel in a predetermined position, and means comprising a push button in the center of said wheel connected to said locking mechanism for moving said locking mechanism from operative to inoperative position.

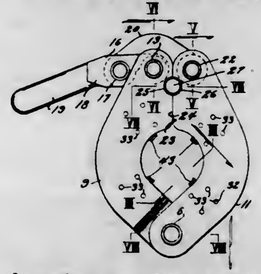
17. A knife sharpener comprising a sharpening element, a stem for carrying the same, means for retaining said sharpening element on said stem, a support for said stem, means within said support for locking said stem in a predetermined position in said support, and manually operable means, independent of the locking means and of the means for holding the sharpener on said stem, extending through said stem to said locking means for releasing said locking means to permit removal of said stem from said support without disengaging said sharpening element from said stem.

1,943,643
POWER TOOL
William W. Vosper, Toledo, Ohio, assignor to The Toledo Pipe Threading Machine Co., Toledo, Ohio, a corporation of Ohio
Application September 21, 1931
Serial No. 564,064
12 Claims. (Cl. 10—89)



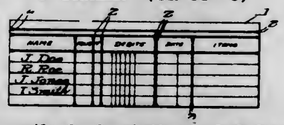
1. A power tool for work of revolution embodying a hollow carrier, a chuck mountable on the carrier, a pair of bars parallel to each other and to the axis of the carrier, a tool mounted on the bars and provided with a rack, a pinion extending transversely of the bars and engaging the rack for shifting the tool toward and from the chuck, a bearing for the pinion, there being a pointer fixed with the bearing, and a scale-providing collar angularly adjustable relatively to the pinion for checking the lineal travel of the tool along the work.

1,943,644
TOOL CARRIER
William W. Vosper, Toledo, Ohio, assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio, a corporation of Ohio
Application April 7, 1932. Serial No. 603,855
7 Claims. (Cl. 10—100)



1. A tool carrier comprising a pair of opposing sections, a direct hinge connection therebetween upon which the sections may swing in opening and closing, and a toggle connection therebetween remote from the hinge connection including a pair of links directly connected to each other and directly connected one to each of said sections for actuating the sections in said opening and closing, and one of said links having a bearing at one of said sections effective in closing position as a lock.

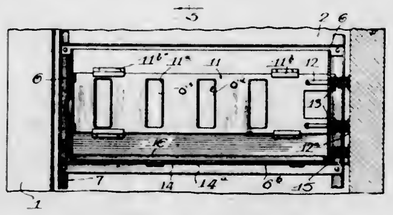
1,943,645
OFFSET PRINTING METHOD
Walter F. Wallace, Winnetka, and Lowry K. Grulee, Evanston, Ill., assignors to The Wallace Press, Chicago, Ill., a corporation of Illinois
Application May 11, 1932. Serial No. 610,531
5 Claims. (Cl. 95—5)



1. The method of printing ruled forms which comprises the steps of applying relatively heavy markings to emphasize the position of certain lines upon the copy for photographic reproduction, making a photographic negative from the marked copy, cutting in lines connecting respective markings upon the photographic negative, and using the prepared photographic negative for printing positives therefrom.

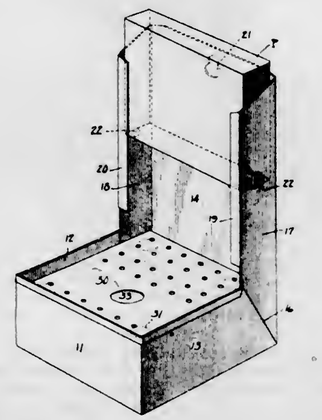
1,943,646
REFRIGERATOR
Paul C. Warren, Lakeside, Mich.
Application December 9, 1931. Serial No. 579,878
3 Claims. (Cl. 62—66)

1. A refrigerator comprising a storage space having a door opening thereinto, a drawer in said storage space slidable outwardly through the door opening, said drawer having walls provided with openings adapted to permit free circulation therethrough when said drawer is in closed position,



slidable closure members on said drawer, and means acting to operate said closure members to close said openings in said drawer when the latter is withdrawn.

1,943,647
CLEANING PAD HOLDER AND REWETTER
William W. Weller, Summit, N. J., assignor to Amalgamated Products Co. Inc., a corporation of New York
Application October 26, 1932. Serial No. 639,547
4 Claims. (Cl. 91—54.4)

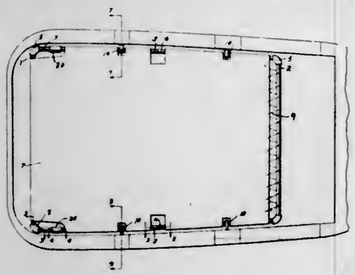


1. A holder and re-wetter for cleaning pads adapted for use in gas stations for cleaning windshields and the like which comprises a lower liquid container, an upwardly extending support at the rear of the container, a substantially rigid one-piece perforate platform provided with oppositely disposed depending flanges adapted to support a pad above the liquid and direct liquid toward the pad when depressed, and coiled springs for supporting said platform permitting the platform to be depressed so that the pad may be wetted.

1,943,648
AUTOMOBILE BED
Edwin Wessman, Chicago, Ill.
Application July 30, 1932. Serial No. 626,541
4 Claims. (Cl. 5—118)

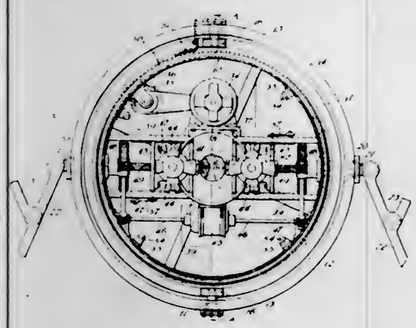
2. The combination with a tubular bed frame, of blocks loosely surrounding at least some of the

elements of the frame, each of said blocks hav-



ing at the outer edge hook-like lugs arranged one above the other.

1,943,649
POLE PEELING AND SHAPING MACHINE
Robert H. White, Jr., Atlanta, and Elam R. Gillon, East Point, Ga., assignors to Southern Wood Preserving Company, Atlanta, Ga., a corporation of Georgia
Application August 4, 1932. Serial No. 627,522
12 Claims. (Cl. 142—32)



1. A machine for shaping poles having crooks or sweeps comprising, in combination, a casing through which a pole is adapted to be fed longitudinally; a frame within which the casing is rotatably mounted; rotary cutting means within the casing; means to rotate the casing within the frame; pole clamping guides adjacent to the cutting means adapted to ride over the sweeps of the poles; and supporting means for the frame and casing connected to permit floating movement of the cutting means.

1,943,650
METHOD OF STERILIZING WATER
John C. Baker, Montclair, and Franz C. Schmelkes, Bloomfield, N. J., assignors to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey
No Drawing. Application May 20, 1931
Serial No. 538,866
2 Claims. (Cl. 210—28)

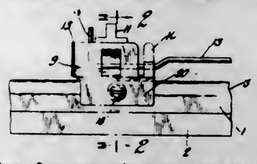
1. The method of sterilizing water comprising preparing a solution containing 0.02 to 0.3% of di-chloramine and adding such solution to the water to be treated.

1,943,651
HEALTH SCALE
Alfred Bousfield, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a corporation of Vermont
Application December 14, 1932
Serial No. 647,177
19 Claims. (Cl. 265—55)



1. In a weighing scale, the combination of a plurality of scale levers, a beam connected thereto comprising a pressed sheet metal frame U-shaped in cross-section, and a pressed sheet metal top plate U-shaped in cross-section, mounted above the said beam frame and provided with an inclined face.

1,943,652
WINDSHIELD WIPER CLIP
Victor H. Christen, Detroit, Mich.
Application December 28, 1932
Serial No. 649,183
4 Claims. (Cl. 15—250)

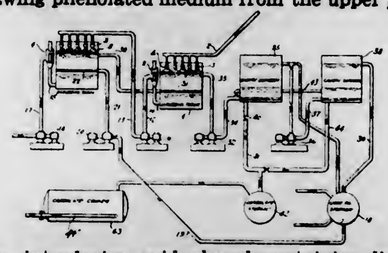


1. A device for securing a windshield wiper blade to an arm having in combination a strip of metal bent back upon itself forming two side portions, one of said side portions having a struck-out portion and one of said side portions having a flange, two of the walls of said struck out portion being sheared from the side portion to form a pocket whereby a wire windshield wiper arm may be fixed to said strip when said arm is inserted in the pocket between said struck-out portion and side portion and said flange is bent over said arm, and means for pivotally securing said strip to a windshield wiper blade.

1,943,653
PROCESS FOR THE REMOVAL OF PHENOLS FROM AMMONIA LIQUORS
Herbert B. Cobb, Chelsea, Mass., assignor to Semet-Solvay Company, New York, N. Y., a corporation of New York
Application January 26, 1928. Serial No. 249,609
7 Claims. (Cl. 260—154)

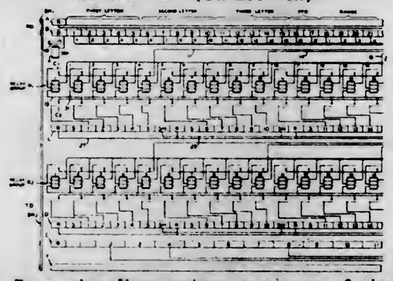
1. In the process of removing phenolic bodies from aqueous liquors containing the same by

bringing the liquor into contact with a phenol extracting medium, that improvement which comprises maintaining a body of said medium in the extraction vessel, introducing fresh medium into the lower portion of said vessel and withdrawing phenolated medium from the upper por-



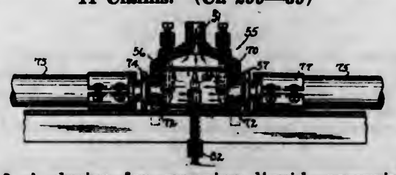
tion, introducing said phenol containing liquor into said vessel above the surface of said body of extracting medium in said vessel whereby it is distributed over said surface and caused to pass down through said body of extracting medium effectively distributed throughout said medium.

1,943,654
MONITOR PRINTER SYSTEM FOR QUOTATION BOARDS
Frederick C. Collings, Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application May 26, 1932. Serial No. 613,761
27 Claims. (Cl. 178—52)



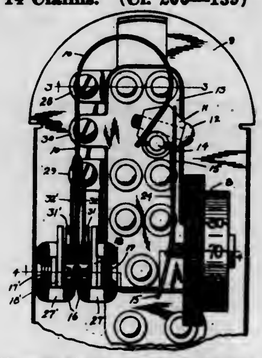
1. In a signaling system, a source of signals comprising a plurality of groups of character code signals consisting solely of selecting impulses transmitted in continuous succession and forming part of a single message, and means responsive to said signals and arranged to insert rest and start impulses intermediate each character code group.

1,943,655
SPRAYER
Charles D. Cummings, Tully, N. Y., assignor to Syracuse Chilled Plow Company Inc., Syracuse, N. Y., a corporation of New York
Application June 21, 1930. Serial No. 462,803
11 Claims. (Cl. 299—39)



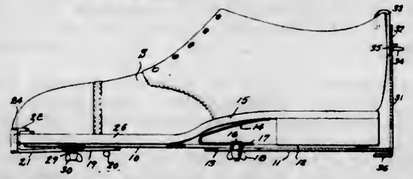
10. A device for spraying liquid, comprising the combination with a container, a pump connected to the container, conduit means receiving the discharge from the pump, said means comprising a plurality of pipes serially arranged in alignment, of a distributing chamber having one part in communication with adjacent pipes to pass the flow therethrough and a second part, a screen separating said parts, clamping means securing the chamber parts together, and a nozzle in communication with the second portion of the chamber to receive screened liquid therefrom.

1,943,656
THERMOSTATIC HEAT REGULATOR
Albert E. Doman, Elbridge, and Kenneth H. Bowen and Frederick H. Gleason, Auburn, N. Y., assignors to Bowen Products Corporation, Auburn, N. Y., a corporation of New York
Application July 2, 1931. Serial No. 548,394
14 Claims. (Cl. 200—139)



1. In a thermostatic control device, a pair of spaced electrical contacts, a thermostat element pivotally mounted at one end and having its other end positioned between said contacts, electromagnetic means associated with said contacts, magnetic means associated with said element adapted to operate in conjunction with said electro-magnetic means for selectively increasing the contact pressure between said element and either of said contacts, means for adjusting the position of said element with respect to said contacts, and means for setting the position of said element to contact with either of said contacts at a predetermined temperature, said means comprising a cam mounted on said element, and an indicator having an adjustable member in contact with said cam, said cam and said indicator being so positioned that rotation of the indicator imparts motion to said element.

1,943,657
SHOE TREE
Dorothy S. Drury, Los Angeles, Calif.
Application April 14, 1932. Serial No. 605,227
13 Claims. (Cl. 12—129.1)



1. In a shoe tree, means adapted to be positioned beneath the bottom of a shoe sole, said means carrying an extension extending upwardly over the forward end of the shoe sole, and means pivotally mounted upon said extension adapted to be caused to engage over the top of

the forward end of the shoe sole, the pivotal connection enabling the last mentioned means to accommodate itself to different shoes.

1,943,658
MANUFACTURE OF BEADED FABRIC
Bertha M. Dyckma, Chicago, Ill.
Application November 3, 1932. Serial No. 641,007
2 Claims. (Cl. 41—36)



1. A beaded fabric comprising a flexible foundation sheet, a plurality of glass beads thereon, said beads being substantially flat on one face and convex on the other, and a plastic adhesive securing said beads flat face down to said sheet, said adhesive extending beyond the outline of each of said beads and embracing the lower marginal edge thereof.

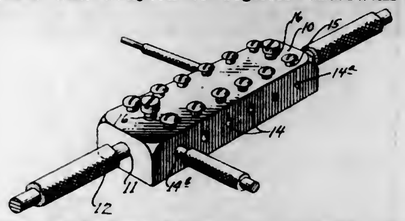
1,943,659
CHRISTMAS TREE HOLDER
Harrison Grant Eason, Lakewood, Ohio, assignor of one-half to John Wilbur, Lakewood, Ohio
Application June 10, 1929. Serial No. 369,711
2 Claims. (Cl. 248—38)



1. An apparatus of the character described comprising a supporting member, a bracket secured to and depending from said supporting member, said bracket having a hollow, cylindrical upper portion for receiving the tree supporting member and a lower portion depending from said upper cylindrical portion having a bearing member thereon for rotatably supporting a tree supporting member, a cup member, means for rotating said cup, and means for coupling said rotating means and said cup to effect the rotation of the latter.

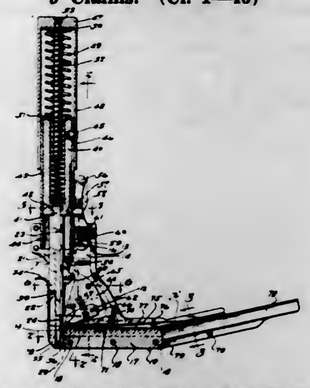
1,943,660
ELECTRICAL CONNECTER
Ray Edwards, Coalinga, Calif.
Application April 5, 1932. Serial No. 603,304
1 Claim. (Cl. 173—324)

A connecter comprising a substantially solid body which is substantially a parallelepiped in form, said body having an opening extending centrally and longitudinally therethrough of a diameter to receive a main conductor, said body being formed with a plurality of transverse openings extending transversely through the body and intersecting said longitudinal opening and capable of receiving service conductors, said openings being spaced apart longitudinally of the body and being of progressively increasing diameters, set screws threaded through the body at right angles to the axis of said openings, two set screws being provided for each transverse opening and located adjacent opposite ends thereof and adapted to register therewith to



secure conductors therein, and two set screws being provided for the longitudinal opening and being located adjacent opposite ends thereof and in register therewith for securing the main conductor in the body.
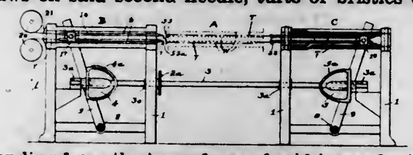
1,943,661
STAPLING MACHINE
Victor H. Ellacott, Spring Valley, Minn.
Application August 27, 1931. Serial No. 559,641
9 Claims. (Cl. 1—48)



1. In a machine of the class described, a body having an enclosed staple chamber and a staple strip guide-way leading thereto, means for feeding a staple strip on the guide-way to successively position the staples comprising said strip in the staple chamber, mechanism including a plunger for cutting the staples from the strip as they are successively positioned in the staple chamber and for driving the same, said body having an open guide-way for the plunger and also having a displaceable section mounted thereon for sliding movement to and from normal position, and a sliding lock on the body for holding the displaceable section in normal position and affording a guard for the open guide-way for the plunger.

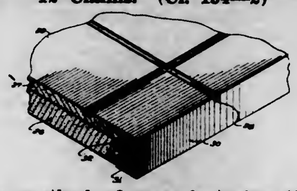
1,943,662
NEEDLE LOOM
George G. Emery, Sanford, and Ralph W. Knowlton and Harold C. Bennett, Westbrook, Maine, assignors to Sanford Mills, Sanford, Maine, a corporation
Application January 2, 1932. Serial No. 584,424
8 Claims. (Cl. 139—21)

1. A loom comprising in combination with the lay frame therefor, a tubular needle, through the interior of which passes a single strand of weft thread, reciprocably disposed on one side of said loom, adjacent the warp shed thereof, a traveller to which said needle is adjustably secured, a traveller arm one end of which is pivotally secured to said traveller, a cam adapted to actuate said traveller arm whereby said needle may be moved into and out of the warp shed, means to automatically bind the weft thread in the interior of said needle against withdrawal therefrom while said needle is advancing through said warp shed and to release it upon the retractive movement of the needle, a thread-gripping needle disposed on the opposite side of said loom in axial alignment with the said first needle, thread-gripping jaws on said second needle, tufts of bristles ex-



tending from the inner faces of said jaws adapted, on the return stroke of the gripping needle, to straighten out and axially align the weft thread projecting out of the end of the first mentioned tubular needle prior to the gripping of the thread by said jaws, means to reciprocate said second needle simultaneously with the movement of said first needle, a clamp on each end of said lay frame adapted to close upon the weft thread while it is under tension between and connected to said needles, and means on said lay frame to sever the weft thread after it has been beat up into the cloth, the cutting being made adjacent the inner end of the first mentioned needle.

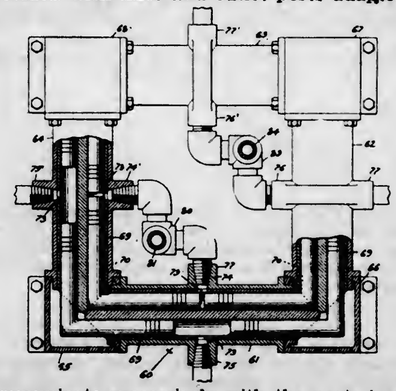
1,943,663
TILE BOARD AND METHOD OF MANUFACTURING SAME
Richard Ericson, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application October 30, 1929. Serial No. 403,387
12 Claims. (Cl. 154—2)



1. The method of manufacturing tile board which comprises advancing a plaster board, applying a plastic material to one surface thereof, moistening and heating a cover sheet and applying said cover sheet to said plastic material, and pressing an ornamental groove into said cover sheet and plastic material by the application of pressure.

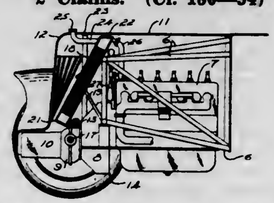
1,943,664
PUMP AND MOTOR MECHANISM
Ralph G. Fear, Los Angeles, Calif.
Application June 29, 1931. Serial No. 547,665
2 Claims. (Cl. 230—57)

1. A machine of the class described embodying: a housing member containing four cylindrical chambers arranged at right angles with each other to form a square; a cylindrical rotor in each of said chambers, said rotors having engaging bearing surfaces formed on their respective adjacent end portions, said rotors being provided with a plurality of corresponding angularly spaced piston receiving passages; a plurality of piston members having angularly disposed piston sections extending into the passages in adjacent rotors, said rotors being provided with ports communicating with said chambers between the ends of said piston sections, and said housing being provided with inlet and outlet ports adapted to



communicate successively with the ports in said rotors, part of said inlet ports communicating with a source of pressure fluid, the corresponding outlet ports exhausting to the atmosphere, and the remainder of said inlet ports communicating with a source of gas to be compressed, the corresponding outlet ports communicating with a compressed gas storage means.

1,943,665
FRONT END CONSTRUCTION FOR MOTOR VEHICLES
Lowell C. Freeman, Detroit, Mich., assignor to Resengin, Inc., a corporation of Michigan
Application November 24, 1930
Serial No. 497,697
2 Claims. (Cl. 180—54)

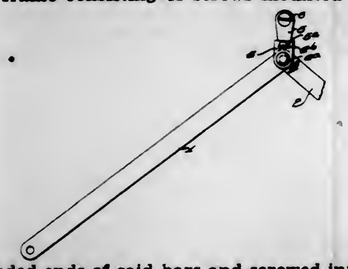


1. In a motor vehicle, the combination with a forwardly extending hood and a false front thereon provided with openings for the passage of air therethrough, of a radiator disposed beneath said hood and front, said radiator being inclined relative to said false front and having a frontal surface area exceeding the area of the openings in said false front.

1,943,666
PICTURE FRAME SUPPORT
Mary C. Gallucci, San Diego, Calif., assignor of one-half to Frank Magnetti, Los Angeles, Calif.
Application October 29, 1932. Serial No. 640,218
2 Claims. (Cl. 40—145.2)

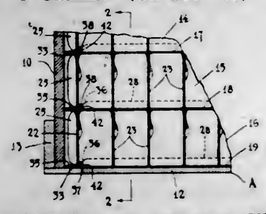
1. In a picture frame support, a pair of bars pivotally connected together at one end of the pair and provided with holes in their opposite ends, a link member swivelly connected to the

pivotally connected ends of said bars, means for adjustably connecting the extended ends of said bars to a picture frame at the opposite sides of said frame consisting of screws mounted in the



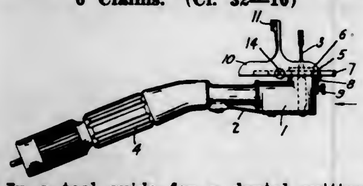
extended ends of said bars and screwed into said frame at its opposite sides, and a hook secured rigidly against the wall with its hook portion extending outwardly adapted to receive said link member.

1,943,667
FILLER AND FLAT CONSTRUCTION
Reynolds Guyer, St. Paul, Minn., assignor to Walderf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application February 20, 1933. Serial No. 657,639
8 Claims. (Cl. 206—26)



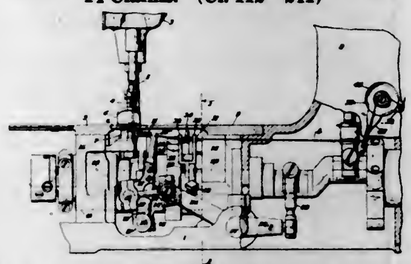
1. In combination, an egg case filler having partitions extending in spaced parallel relation and other partitions extending in spaced parallel relation and intersecting said first named partitions to form egg cells therebetween, an egg flat consisting of a body portion having parallel corrugations disposed along said first named partitions and extending up to the outer partitions of the last named partitions, means for securing the ends of said corrugations in place, said means forming facing shoulders and notches in said first named partitions forming abutments for engagement with said shoulders to hold the egg flat from movement along said corrugations.

1,943,668
TOOL GUIDE FOR DENTISTS' CONTRA-ANGLES
Carl Eugene Hartman, Denver, Colo.
Application July 10, 1931. Serial No. 549,834
6 Claims. (Cl. 32—10)



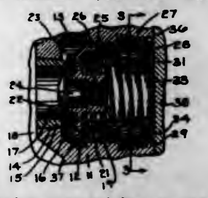
1. In a tool guide for a dental cutting tool held in a tool holder, an elongated, yoke-shaped guide having its guide surface extending at right angles to the tool and adapted to be carried by the tool holder and to contact and slide along the tooth being worked upon by the tool and thereby guide said tool, and means mounting the said guide upon the tool holder and spacing it from the adjacent side of the said tool.

1,943,669
LOOPER - THREAD CONTROLLING MECHANISM FOR SEWING MACHINES
Park A. Herr, Hillside, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application August 19, 1932. Serial No. 629,416
14 Claims. (Cl. 112—241)



1. A looper-thread controlling mechanism for sewing machines comprising a shaft, an eccentric mounted upon said shaft, an eccentric follower, a thread-cam carried by said follower, spaced thread-guides on opposite sides of and cooperating with said thread-cam and a second eccentric on said shaft connected to oscillate said thread-guides for controlling the slack in the looper-thread.

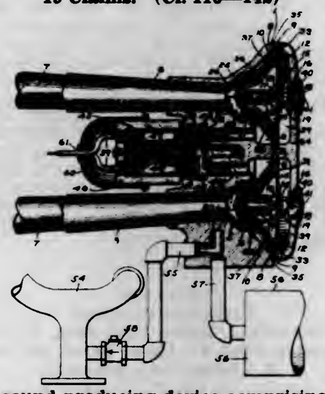
1,943,670
SPRING SEAT
Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 11, 1932. Serial No. 610,521
1 Claim. (Cl. 251—144)



A valve device comprising a casing having an undercut chamber through which fluid under pressure is adapted to flow and having a continuous annular retaining seat adjacent the mouth of the chamber, a valve seat in said chamber, a valve for said seat, a retainer having a major axis longer than the diameter of the mouth of the chamber and a minor axis shorter than said diameter permitting insertion of the retainer through said mouth when the retainer is tilted toward the longitudinal axis of the chamber, the said retainer having means at the ends of its major axis for engaging the retaining seat adjacent said mouth when the retainer is in a plane normal to the axis of said chamber for preventing outward movement of said retainer, and a spring interposed between and engaging said valve and said retainer for yieldingly retaining the retainer in operative position, the said retainer having means fitting into the mouth of the chamber and cooperating

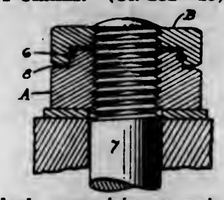
therewith for centering the retainer and having means cooperating with said spring for centering it with respect to the retainer.

1,943,671
PNEUMATIC HORN
Ellis E. Hewitt, Edgewood, Pa., and Carlton D. Stewart, Berkeley, Calif., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 23, 1932. Serial No. 624,285
19 Claims. (Cl. 116—142)



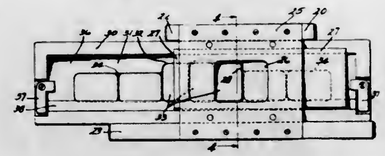
1. A sound producing device comprising a casing, a flexible diaphragm mounted in said casing, a thin disc valve operated by said diaphragm, a stem secured to said diaphragm and carrying at its outer end said valve, the portion of said stem engaging said valve having a surface of relatively small area and a surface of greater area spaced slightly from said valve when said valve is in its normal position, a washer disposed on the side of said valve opposite to said surfaces on the stem, said washer having a surface of relatively small area engaging said valve and a surface of greater area spaced slightly from said valve when said valve is in its normal position, and means for rigidly securing said washer and said valve to said stem, comprising a headed shank projecting forwardly from the stem and passing through an opening in the valve and an opening in the washer.

1,943,672
LOCK NUT
William R. Hewitt, New York, N. Y.
Application May 22, 1933. Serial No. 672,249
4 Claims. (Cl. 151—15)



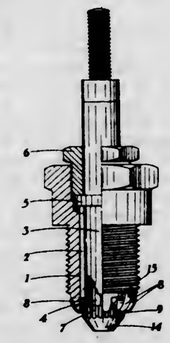
1. A nut lock comprising a pair of abutting nuts, telescoping members formed partially in abutting ends of the nuts, one of said telescoping members having an annular groove formed in its exterior surface and the other member having an annular groove formed in its inner surface, said grooves being equal in width at their open portions and being adapted to register when the nuts are assembled with a slight space between their abutting surfaces, and a radially expansible ring disposed in said grooves and securing the nuts against endwise separation.

1,943,673
FILM DISPLAY FRAME FOR PROJECTORS
Alden Hudson, Green Bay, Wis.
Application June 22, 1932. Serial No. 618,585
17 Claims. (Cl. 88—26)



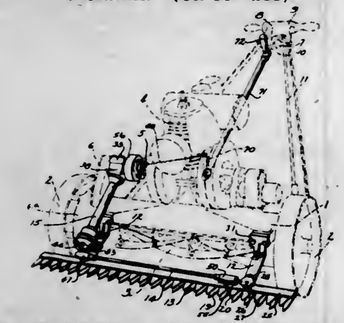
1. A frame for the display of dental films, said frame comprising a mask provided with an opening and a margin substantially rectilinear at one side of said opening and centrally offset at the other side thereof, and film mounting means associated with said mask comprising a marginal clamp associated with the rectilinear margin of the mask and adapted marginally to engage each of the series of films aligned with said margin, and transparent clamping means operative to engage other portions of films marginally held by said clamp.

1,943,674
SPARKING PLUG FOR INTERNAL COMBUSTION ENGINES
George Edward Woods-Humphery, Chelsea, London, and Henry Leonard Hall, Streatham, London, England
Application March 23, 1933, Serial No. 662,278, and in Great Britain April 19, 1932
4 Claims. (Cl. 123—169)



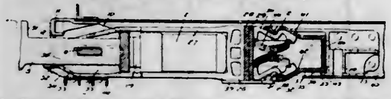
1. A sparking plug for internal combustion engines in which the head of the inner end of the central electrode is of approximately cylindro-conical form, the insulating material thereon extending to the inner face of said head and in which the inner end of the body of the plug is furnished with a plurality of narrow fingers forming between same a plurality of correspondingly narrow ports through which said insulating material is directly exposed to and scavenged by the flames of combustion.

1,943,675
AUXILIARY CUTTER FOR POWER DRIVEN LAWN MOWERS
Knud F. Jacobsen, Racine, Wis., assignor to Jacobsen Manufacturing Co., Racine, Wis., a corporation of Wisconsin
Application January 26, 1929. Serial No. 335,347
7 Claims. (Cl. 56—238)



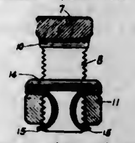
1. In combination with a lawn mower of the type having a frame, a cutting reel and motor mounted thereon and means including a shaft driven by the motor for operatively connecting the motor to the cutting reel, an auxiliary cutter mounted on the frame and positioned above the cutting plane of said reel and in front thereof, a clutch associated with said shaft and means for operatively connecting an element of the clutch to said auxiliary cutter to drive the same when the clutch is in engaged position.

1,943,676
DRAFT RIGGING
Byers W. Kadel, Baltimore, Md., assignor to The Symington Company, New York, N. Y., a corporation of Maryland
Application February 24, 1931. Serial No. 517,971
8 Claims. (Cl. 213—7)



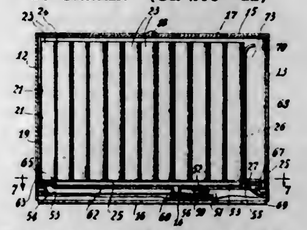
5. In railway draft rigging, in combination with draft sills, a drawbar, yoke-acting means having vertically spaced arms, outer cushioning means disposed between said arms, rigid front stop means connected to said sills, means connecting said drawbar and yoke-acting means for the transmission of draft forces, a follower disposed rearwardly of said yoke-acting means, means connecting said sills and provided with a main backstop portion, and arms, serving as backstop means for said follower and outer cushioning means, extending forwardly therefrom and connected to said sills, leaving a cushioning mechanism pocket therebetween, inner cushioning means disposed in said pocket between said arms, said follower being normally spaced from said arms a distance equivalent to the permissible compressive movement of said inner cushioning means, the compression stroke of each cushioning means being limited, whereby the total compression on buff is equal to the combined compression stroke of said two means, said yoke-acting means, during draft, transmitting the actuating force from said drawbar to said outer cushioning means only, whereby the draft stroke is limited to the permissible compression stroke of said outer cushioning means.

1,943,677
ELECTRICAL CONNECTER
James R. Kearney, St. Louis, Mo.
Application August 18, 1930. Serial No. 475,988
2 Claims. (Cl. 173—263)



1. In a wire connecter of split-bolt type including a bolt and nut, a washer member of unitary sheet metal construction comprising an annular rim having a longitudinally grooved rib extending diametrally thereof, the outer peripheral margin of said rim being turned downwardly to provide an annular flange or skirt, legs connected to said skirt near opposite ends of said rib, each of said legs extending inwardly, for a part of its length, along said rib, the lower surface of such leg part lying substantially flush with the lower edge of said skirt, the remaining portion of each leg curving outwardly away from said rim.

1,943,678
CIGARETTE CASE
Frederick J. Keefe, New York, N. Y.
Application June 24, 1931. Serial No. 546,542
10 Claims. (Cl. 206—41)



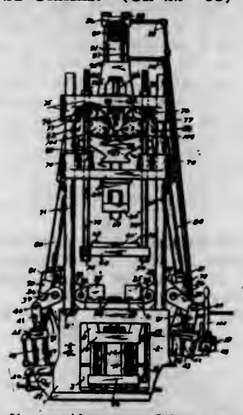
1. A cigarette case having a slide rail, an ejector and a feed member, said ejector receiving a cigarette at the rail and being operative to protrude the received cigarette from the case, said feed member being arranged for pulling actuation, to move cigarettes along the rail to the ejector, a slide adapted, when operated, to effect the operation of the ejector, and mechanism commanded by the movement of the slide for operating the feed member.

1,943,679
HYDRAULIC BRAKE
Albert E. Le Cour and Emile Le Cour, St. Louis, Mo., assignors of one-third to Harold W. Haverson, one-third to Albert E. Le Cour, and one-third to Emile Le Cour, all of St. Louis, Mo.
Application May 29, 1933. Serial No. 673,407
5 Claims. (Cl. 309—34)



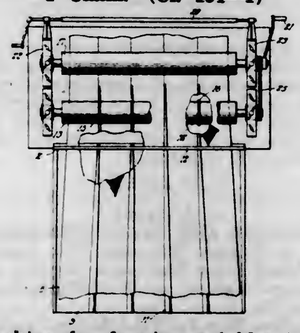
1. The combination with a piston, of a sealing device composed of elastic material and including an imperforate end wall against and unattached to the end of the piston, a cylindrical wall integrally united with said end wall and extending in a direction away from the piston, and an end wall integrally united with said cylindrical wall and having a central hole and cooperating with said end wall and said cylindrical wall to form a groove within said sealing device; and a tubular fitting member composed of solid and inelastic material extending through said hole in said second end wall and having a radial flange extending into said groove and having openings from the inside of said tubular member through said flange to the inside of said groove.

1,943,680
DIE-CASTING MACHINE
Nathan Lester, Cleveland, Ohio, assignor to Precision Castings Company, Inc., Fayetteville, N. Y., a corporation of New York
Application October 27, 1930. Serial No. 491,583
21 Claims. (Cl. 22—68)



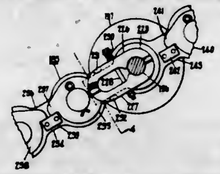
20. In a die-casting machine, a plurality of box sections mounted for movement toward and from each other, a plunger mounted intermediate said sections, means for producing relative movement of the box sections and plunger to form a delivery pot having an outlet, and means for actuating said plunger to eject metal from the pot through said outlet.

1,943,681
MEANS FOR APPLYING MUSLIN TO CORRUGATED ROOFING
John C. Lemmon, Hammond, Ind.
Application June 19, 1930. Serial No. 462,258
1 Claim. (Cl. 154—1)



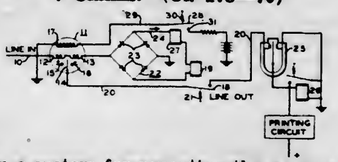
A machine for forming wrinkles in roofing muslin or other suitable material comprising a platform providing a top surface substantially plain at one end thereof and having wrinkle forming elements gradually increasing in height from said end toward the other end of said surface, means for moving the material across said surface toward the last mentioned end thereof, and pressure rolls provided with opposed interfitting annular ridges and grooves receiving said wrinkles for fixing the wrinkles in the material, said grooves and ridges being separated on their respective rolls by substantially cylindrical portions.

1,943,682
MOVING STAIRWAY
David Leonard Lindquist, Hartsdale, and Arthur Edward Handy, Lynbrook, and Samuel Gustave Margles, Brooklyn, N. Y., assignors to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Original application February 10, 1933, Serial No. 656,086. Divided and this application July 13, 1933. Serial No. 680,178
2 Claims. (Cl. 198—16)



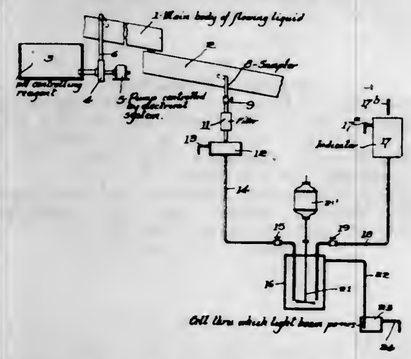
1. In a moving stairway in which each step is mounted upon a step axle that extends across the stairway and through corresponding hollow chain pins in running gear chains at opposite sides of the stairway and in which two step wheels for each step are mounted on the step axle for such step, one at either side of the stairway; means retarding rotation of a step axle with respect to said chains, comprising, a drag clutch in frictional engagement with such step axle, and mechanism interlocking said drug clutch with a link of one of said running gear chains.

1,943,683
SIGNAL REPEATER
James W. Long, Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application August 18, 1932. Serial No. 629,368
7 Claims. (Cl. 178—70)



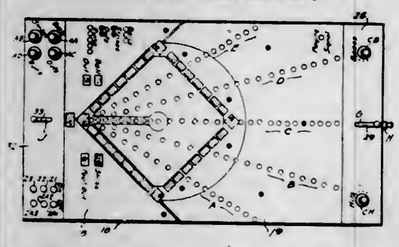
1. In a system for repeating three current signals comprising zero, positive, and negative signal pulses, the combination of an incoming and outgoing line, a repeating polar relay coupling said lines, a direct current relay biased to an open position and arranged to close and open the outgoing line, a full wave rectifier having its output coupled in the actuating circuit of said direct current relay, and means for impressing the incoming signals upon said rectifier so that either positive or negative current pulses through said rectifier produce uni-directional pulses through said relay operating the same to hold said outgoing line closed during the reception of both positive and negative pulses but to open the line during periods of zero pulses.

1,943,684
METHOD AND APPARATUS FOR CONTROLLING THE HYDROGEN-ION CONCENTRATION OF SOLUTIONS
Harold S. Martin and Thomas A. Janney, Garfield, Utah
Application June 7, 1930. Serial No. 459,817
10 Claims. (Cl. 23—230)



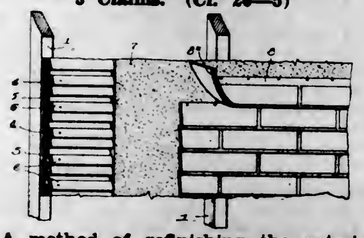
1. The method of controlling the hydrogen-ion concentration of flowing solutions which comprises continually introducing to the solution and mixing therewith a pH controlling agent, subsequently removing a portion of the solution and continuously mixing therewith an indicating agent adapted to impart to the solution a color dependent upon the hydrogen-ion concentration thereof, interposing such portion of the solution between a source of light and a photo-electric cell so as to control the current through said photo-electric cell in accordance with variations in color of said portion, and automatically controlling the rate of addition of said pH controlling agent to the solution in accordance with variations in the current passing through said photo-electric cell.

1,943,685
GAME APPARATUS
Robert I. Mayorga, Oklahoma City, Okla.
Application July 1, 1930. Serial No. 465,231
13 Claims. (Cl. 272—88)



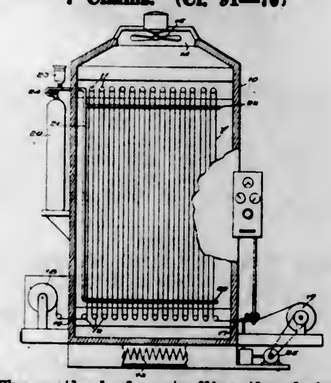
2. In a competitive game, a baseboard having a playing field thereon and provided with electric lamps for indicating the elements of the game, means for closing an electric circuit to illuminate certain of the lamps to simulate the playing action of one of the competitive sides, selective means for designating the different playing actions of said competitive sides, and a switch having selectable points of contact for closing the electric circuits to anticipate the playing action of one of said competitive sides.

1,943,686
METHOD OF SEALING BUILDING WALLS
Orville V. McGrew, Chicago, Ill.
Application September 26, 1932
Serial No. 634,883
3 Claims. (Cl. 20—5)



1. A method of refinishing the exterior of frame building walls consisting of nailing thin wood strips horizontally to the surface of the original building wall and spaced apart at intervals, applying a plastic insulating compound to the surface to fill the crevices formed between said strips and after said compound has sufficiently set and hardened, to apply an outer weather coating of sheet material in the form of strips nailed along their upper edges to said wood strips with their lower edges overlapping the strip below.

1,943,687
FILM SHRINKAGE CONTROL
Harry William Menke, Los Angeles, Calif., assignor to Cinemacolor Corporation, Chicago, Ill., a corporation of Delaware
Application May 3, 1930. Serial No. 449,669
7 Claims. (Cl. 91—70)

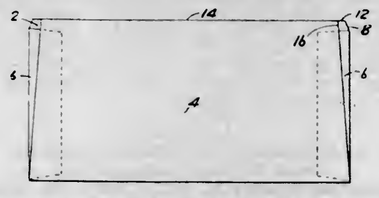


1. The method of controlling the shrinkage of uncured film consisting in enclosing the film, subjecting it to heat for a time duration sufficient to shrink the film to its point of greatest density, while exhausting the air from around the film and treating the film with a solution capable of maintaining the film pliable.

1,943,688
ENVELOPE AND BLANK THEREFOR
Edward G. Moore, Glenside, Pa., assignor to Louis Wolf, Elias Wolf, and Howard A. Wolf, copartners trading as Wolf Brothers, Philadelphia, Pa.
Application May 7, 1931. Serial No. 535,584
1 Claim. (Cl. 229—68)

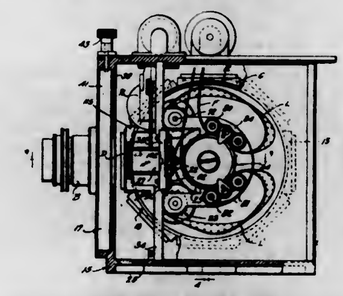
An envelope comprising a one-piece blank providing front and back walls and side flaps,

said front and back walls being defined from each other by a fold line, the front and back walls having free edges equidistant from the fold line whereby in the finished envelope they lie together, the side flaps being carried by one of said walls at its sides, the lines of junction



with the wall terminating substantially short of the free edges of the walls, the side flaps being secured to the wall which does not carry them, the last named wall being narrower at its free edge than the other whereby corners of single wall thickness are provided.

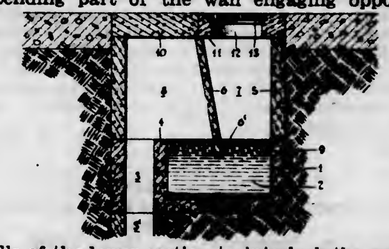
1,943,689
MOTION PICTURE OPTICAL SYSTEM AND APPARATUS
Gabriel Garcia Moreno, Los Angeles, Calif., assignor to Moreno-Snyder Cine Corporation, Ltd., Los Angeles, Calif., a corporation of Delaware
Application April 18, 1931. Serial No. 531,200
21 Claims. (Cl. 88—16.8)



1. An optical system for motion picture apparatus comprising means for moving a film, an objective lens located in front of the film so that its axis intersects the film, a moving lens unit moving in synchronism with the film and intersecting the axis of the objective lens at only one point between the objective lens and film, the direction of movement of the unit at said point being opposite to that of the film; and a corrective lens in the path of light between the objective lens and film.

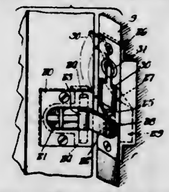
1,943,690
SEWER TRAP
Robert T. Morrison and Robert J. Croft, Le Roy, N. Y.
Application October 10, 1932. Serial No. 637,182
7 Claims. (Cl. 182—3)

1. A sewer trap comprising relatively superimposed sections each section being a unitary body having an encircling wall, the lower section having a catch basin and a discharge passage and the superimposed section having a partitioning wall dividing the same into an inlet passage and an outlet compartment and extending down into the catch basin forming therewith a water seal, said extending part of the wall engaging opposing



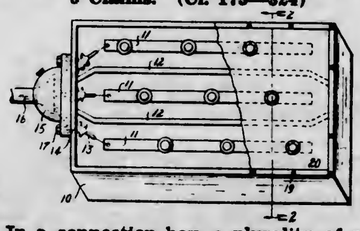
walls of the lower section to interlock the superimposed sections against lateral displacement.

1,943,691
HINGE
Charles G. Nachtrieb, Berwyn, Ill.
Application April 19, 1930. Serial No. 445,584
1 Claim. (Cl. 16—149)



A hinge construction for pivotally mounting a double hung slidable sash in its frame, comprising a plate member adapted to be seated in a recess in the sash and adapted to lie flush with the outer face thereof, said plate member having a recess, a hinge leaf pivoted to said plate member and disposed in the recess of the said plate member, said leaf having a knob formed thereon, a second plate member adapted to be seated in a recess in the frame, said second plate member having a recess and a slot provided therein, said slot communicating with the last named recess, said knob being engageable with the second plate member and receivable in said last named recess and slot, and a swinging closure mounted on a horizontal pivot and connected to the second plate member and adapted to close the recess in the second plate member whereby the knob will be retained in the said slot, when said knob is interengaged with the second plate member, said closure lying flush with the face of the second plate member.

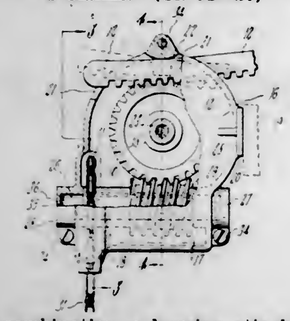
1,943,692
CONNECTION DEVICE
John D. Noyes, Detroit, Mich.
Application March 31, 1930. Serial No. 440,196
6 Claims. (Cl. 173—324)



1. In a connection box, a plurality of spaced, parallel, relatively insulated bus bars, a plurality of conductors entering said box at one end, each

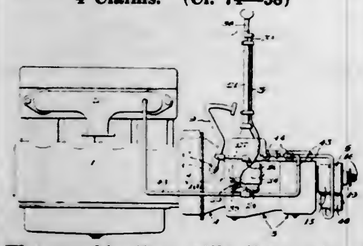
of which is connected to an end of a bus bar, a plurality of spaced upwardly projecting socket contacts on each bus bar arranged in staggered relation with respect to the contacts of adjacent bus bars, a cover secured to said box and having a plurality of openings therein each of which is aligned with one of said contacts, and a connector coupling means on said cover aligned with each opening.

1,943,693
HOUSED GEARING
Roy E. Ormsby, Wakefield, and Leslie E. Ormsby, Watertown, Mass.
Application November 19, 1931, Serial No. 576,028. Renewed June 9, 1933
4 Claims. (Cl. 74—27)



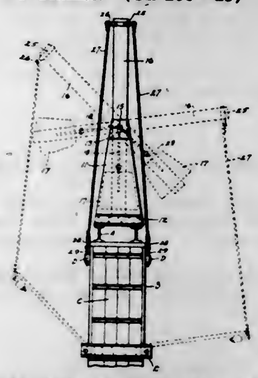
1. In combination, a housing attachable as a unit to a support, said housing including attaching means, a gear chamber, a worm chamber, a pulley chamber, and bearings associated with said chambers and arranged in pairs, a rack bar longitudinally movable in the gear chamber, a gear meshing with the rack bar teeth and having journals rotatable in the bearings of one pair, a worm shaft rotatable in the bearings of another pair and extending through the worm and pulley chambers, a worm fixed to the worm shaft within the worm chamber and meshing with the gear, and a worm-rotating pulley fixed to the worm shaft within the worm chamber.

1,943,694
CONTROL MECHANISM FOR MOTOR VEHICLES
Joseph E. Padgett, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a corporation of Virginia
Application March 23, 1932. Serial No. 600,677
4 Claims. (Cl. 74—58)



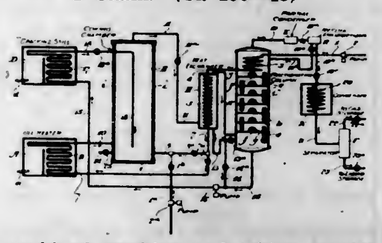
1. The combination with the main clutch throw-out mechanism and the change speed gearing of a motor vehicle, a normally engaged rear clutch operable to disconnect the change speed gearing from the propeller shaft of the vehicle during gear shifting operations, and throw-out mechanism therefor, the gearing including a gear shifting lever, of motor means for operating the throw-out mechanism for the main clutch and the rear clutch to disengage said clutches successively, a handle on the gear shifting lever and operable as a unit with the lever to actuate said lever to effect the shifting movement thereof, and operable relatively thereto, and means operated by the relative movement of the handle to the lever to control the operation of the motor means for the front throw-out mechanism, and operable by the shifting movement of the lever to operate the motor means for the rear throw-out mechanism.

1,943,695
PRESS-DOOR COUNTER-BALANCE
Frank S. Perry, Gorman, Tex.
Application October 12, 1931. Serial No. 568,491
3 Claims. (Cl. 100—19)



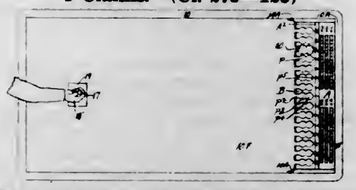
2. A counter-balance for press box doors comprising, a pair of upright standards, a shaft extending between and carried by the upper ends of said standards, an elongated lever journaled on the shaft at its mid-portion, the lower end of the lever terminating short of the bottoms of the standards, a weight mounted on the lower end of the lever, and a flexible connection having one end secured to the upper end of said lever and provided at its opposite end with means for attaching it to a press-box door.

1,943,696
OIL CONVERSION
Albert G. Peterkin, Jr., Bryn Mawr, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 14, 1929. Serial No. 363,023
1 Claim. (Cl. 196—48)



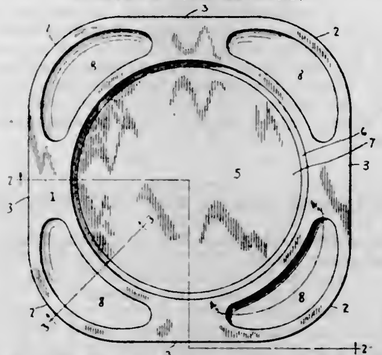
A combined cracking and coking process for converting hydrocarbon oil into a light distillate and coke as final products that comprises retaining hydrocarbons maintained at coking temperature in a coking chamber to convert the same to a coke residue, subjecting the evolved vapors to fractionation to form a vapor fraction and a reflux condensate, condensing said vapor fraction to form the final light distillate, passing the reflux condensate through a heated coil wherein the oil is subjected to cracking, directing the resultant cracked products at cracking temperature into the coking chamber, separately heating a stream of charging stock comprising a petroleum residuum to between 400° F. and a temperature at which substantial amounts of carbon would be deposited from the residuum as the heating proceeds by subjecting said residuum to indirect heat exchange with uncooled vapors leaving said coking chamber, and directing the heated stream into the coking chamber, and introducing an unheated gas-oil charging stock into the heated stream of petroleum residuum entering the coking chamber.

1,943,697
GAME
Edwin Schultz, Minneapolis, Minn.
Application July 30, 1932. Serial No. 626,936
4 Claims. (Cl. 273—123)



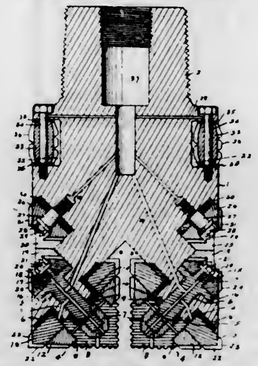
1. A game apparatus comprising an elongated quadrangular board with its rear half formed with a higher top surface than the front half and beveled therebetween, said front part provided with a row of elongated pockets each with a restricted opening in the front edge of the board and further formed with a vertical groove of relatively small proportions in the rear of each pocket and in alinement with its opening the front edge of the board having an inwardly inclined face in its lower portion and a vertical face in its upper portion, ball retrieving means between the restricted openings and attached to the vertical face, and numerical designations on said beveled upper part of the board for and adjacent each pocket.

1,943,698
LUNCHEON PLATE
William A. Schurmann, Chicago, Ill., assignor to Mapes Consolidated Manufacturing Company, Griffith, Ind., a corporation of Delaware
Application June 20, 1933. Serial No. 676,686
3 Claims. (Cl. 229—2.5)



1. In a luncheon plate, a sheet of moulded pulp having a comparatively large round central depression, a flat marginal portion having parallel edges save for rounded corners and a series of smaller depressions in the flat portion, said smaller depressions being located each between the central depression and a rounded corner.

1,943,699
DRILL
Philip N. Snell, Jr., Houston, Tex., assignor, by direct and meane assignments, of three-eighths to A. H. Snell and one-eighth to Conrad J. Landram, both of Houston, Tex.
Application December 10, 1929
Serial No. 412,961
3 Claims. (Cl. 255—71)



1. A drill comprising a head having a lower end face provided with a reduced extension, a spindle arranged axially with respect to said extension, a bushing on the lower end of the spindle, a conical cutter retained on said spindle and formed of sections, one of said sections being rotatable on the end of the spindle and enclosing said bushing and having an external abutment, a lock nut on said section engaging said bushing and retaining said section on the spindle and the other sections of the cutter being assembled to rotate about the axis of the spindle and being mounted between said abutment and end face, the end section of the cutter being reduced and fitting into the adjacent section.

1,943,700
METHOD OF AND MEANS FOR BENDING TUBES
Lester W. Snell, Alton, Ill.
Application March 31, 1930. Serial No. 440,254
17 Claims. (Cl. 153—32)

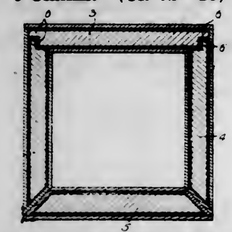


1. The method of bending tubes which comprises imparting longitudinal movement to a tube while increasing the thickness of the material that is to form the arc of relatively large radius in the bent tube, and at the same time bending portions of said tube that have been subjected to said thickening operation.

11. In a tube bending device, a bending die having a curved passageway conforming to the external diameter and curvature desired in the bent tube, and means whereby the tube is forced through said passageway, said passageway having an entrance of larger diameter, a portion of said entrance being offset to reduce the diameter of the tube as it passes into said curved passage-

way, and said offset being merged into the portion of said curved passageway having a relatively large radius.

1,943,701
INSULATION AND MEANS EMBODYING THE SAME
Wheeler S. Sprague, Swarthmore, Pa.
Application May 16, 1932. Serial No. 611,680
6 Claims. (Cl. 72—16)



1. An insulation block comprising the combination with sheets of cellulosic material of irregular and variable contour, of reinforcing sheets of substantially stiff material between which the first named sheets are placed and which are sufficiently rigid to set definite contours and planes and establish two dimensions, and an enclosing covering, confirming the two dimensions of the reinforcing sheets and following their contour and determining the third dimension of the block, so as to form a block, affording a calculation unit as a space filling means, while containing an irregularly and variably compressible mass.

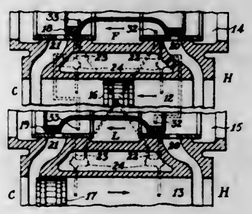
1,943,702
VENDING MACHINE
Mitsuto Takeshita, Los Angeles, Calif.
Application January 26, 1933. Serial No. 653,700
3 Claims. (Cl. 194—66)



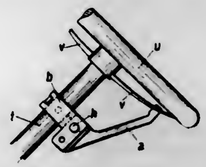
1. In a vending machine, the combination with a liquid container having a valve for controlling the discharge of its contents, a wheel having a gear rotatable therewith, a member having a groove formed therein, a gear fixed to the member adapted to mesh with said gear, an arm having a part engaged in the groove and having a geared connection with the valve, means for normally holding the wheel against rotation, a motor for driving the wheel, and means for releasing the wheel holding means to cause the motor to drive the wheel and member to actuate the arm for opening and closing the valve.

1,943,703
LOCOMOTIVE AUXILIARY PORT CONTROLLING MECHANISM
Hubert J. Titus, Paterson, N. J., assignor to Franklin Railway Supply Company, New York, N. Y., a corporation of Delaware
Application August 28, 1930. Serial No. 478,534
15 Claims. (Cl. 121—142)

1. In a limited cut-off locomotive; the combination of a pair of cylinders; a valve chest associated with each cylinder having main ports and passages; a main distribution valve in each chest; a starting steam passage for each end of each cylinder; a fluid pressure operated control valve device in each passage; and a control mechanism for said valve devices including means for actuating the devices to open the passages between the points of cut-off and release of the corresponding main ports and means for actuating the devices to close the passages between the points of release and cut-off of the corresponding main ports, the means last mentioned including a control port for each end of each chest and passages connecting said control ports and said control valve devices, the passages for the control ports in one chest being connected, respectively, with the control valve devices at the corresponding ends of the opposite cylinder, and the passages for the control ports in the other chest being connected, respectively, to the control valve devices at the opposite ends of the opposite cylinder.



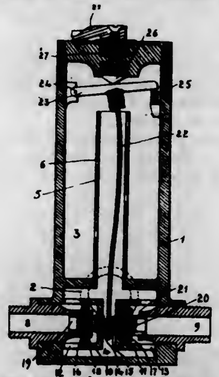
1,943,704
STEERING WHEEL LOCK
Georg Töpfer, Munich, Germany
Application December 13, 1932, Serial No. 647,019, and in Germany December 15, 1931
4 Claims. (Cl. 70—129)



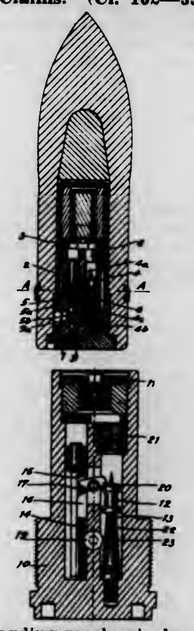
1. In a steering wheel lock, a steering post clamp including a pair of post engaging members hinged together to open and close about a steering post, the free ends of said members having opposed undercut slots coacting to form a keyway when the members are closed on the post, and a key fitting said slots and holding the members closed.

1,943,705
AUTOMATIC MIXER FOR HOT AND COLD WATER
René Trubert, Arras, Pas-de-Calais, France
Application August 31, 1932, Serial No. 631,218, and in France September 16, 1931
8 Claims. (Cl. 236—12)

1. An automatic mixer for hot and cold water comprising a mixing chamber, a hot water inlet nozzle, a cold water inlet nozzle, a bimetal strip mounted in said chamber between said nozzles, said strip cooperating with said nozzles so as to control the passage of water therethrough, a pivotally mounted lever to which said strip is secured, and means for discharging a mixture of hot and cold water from said chamber.

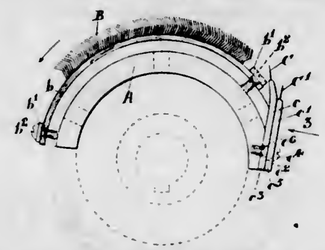


1,943,706
SELF-RETARDING MECHANICAL PERCUSSION FUSE FOR PROJECTILES
André Varaud, Geneva, Switzerland
Application August 6, 1931, Serial No. 555,442, and in Switzerland August 7, 1930
6 Claims. (Cl. 102—39)



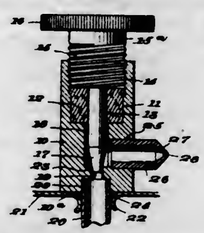
1. A self-retarding mechanical percussion fuse for projectiles, comprising a body pierced by two cylindrical bores which lie parallel to the axis of the fuse and situated at an equal distance from said axis, a striker freely slidable in one of the bores and a cylindrical mass in the other, the striker and mass being toothed in the manner of a rack, a pinion connecting these last named elements, a percussion spring associated with the striker and a centrifugal bolt cooperating with the cylindrical mass to prevent the same from urging the striker into a firing position.

1,943,707
COMBING MACHINE
Hubert Walker, Scholes, England
Application March 21, 1932, Serial No. 600,338, and in Great Britain January 30, 1932
1 Claim. (Cl. 19—116)



In a combing machine, a drum segment carrying a form of card clothing, a pair of plates secured to said segment rearwardly of said card clothing, each of said plates carrying a row of finishing pins, the inner one of said plates being secured to said segment by screws which pass through open slots in said plate and the outer plate being secured to said segment by screws which pass through open slots in both plates, said outer plate being formed with wide open slots for the free passage therethrough of the screw heads which secure the inner plate.

1,943,708
METHOD OF MAKING MANUALLY OPERATED VALVES
John F. Werder, Cleveland, Ohio, assignor of one-half to Edmund Rogers
Original application July 22, 1926, Serial No. 124,150, now Patent No. 1,833,983, dated December 1, 1931. Divided and this application October 30, 1931. Serial No. 572,159
5 Claims. (Cl. 29—157.1)

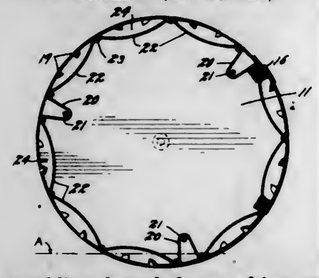


5. The method of making a manually operated valve which comprises boring an axial chamber of definite length in the end of a piece of bar stock, forming threads on the interior of said chamber, boring a lateral passage from the side of said valve body to said chamber at a point adjacent the end of said chamber, cutting off the chambered portion from the bar at a point beyond the bottom of said chamber to form a valve body blank, drilling axially from the cut-off face of such portion to said chamber with a bore smaller than said chamber, whereby an annular shoulder is formed at the bottom of said chamber to constitute a valve seat, securing within said lateral passage a discharge nozzle, and fitting within the valve body so produced a threaded member engaging the threads of said chamber and having a shank shaped at its end to constitute a valve co-operating with said seat.

1,943,709
TUMBLING BARREL FOR WASHING MACHINES

Charles L. Wilkins, Denver, Colo., assignor of fifty-one per cent to C. M. Scholl and nine per cent to H. F. Bush, both of Denver, Colo.

Application April 8, 1933. Serial No. 665,067
5 Claims. (Cl. 68—18)



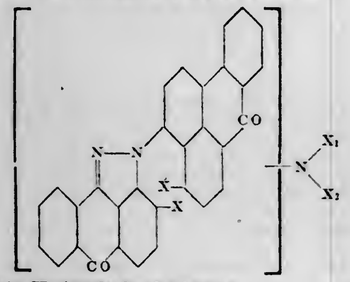
1. A tumbling barrel for washing machines comprising: two circular discs; supporting means at the centers of said discs; a perforated sheet metal cylindrical shell secured around said discs, said discs forming heads in said shell; means carried by said shell for preventing said discs from passing into said shell; and tie-bolts extending from disc to disc through said shell to maintain said discs against said latter means; ribs secured to the inner wall of said shell and extending inwardly and about said tie bolts so as to form inwardly projecting shelves therein; and inwardly curved perforated plates positioned between said ribs in spaced relation to the wall of said shell.

1,943,710
COMPOUND OF THE BENZANTHRONE-PYRAZOLANTHRONE SERIES AND A PROCESS OF PREPARING IT

Karl Wilke and Josef Stock, Frankfort-on-the-Main-Hochst, and Fritz Schubert, Frankfort-on-the-Main-Sindlingen, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application February 20, 1930, Serial No. 430,120, and in Germany March 4, 1929
16 Claims. (Cl. 260—45)

1. The process which comprises heating a compound of the following general formula:



wherein X stands for hydrogen
X_1 stands for hydrogen
X_2 represents a polynuclear ring system, or

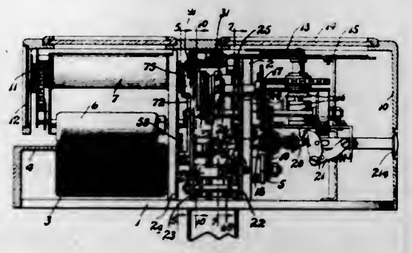


represents a polynuclear heterocyclic ring system, N, X_1 and X_2 being members of the heterocyclic nucleus with an alkaline condensing agent to a temperature of about 90° C.–200° C.

1,943,711
CLOTH MEASURING MACHINE

Walter E. Aeschbach, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a corporation of Delaware

Application September 26, 1932
Serial No. 634,812
26 Claims. (Cl. 101—74)

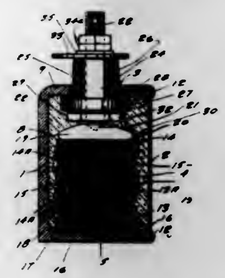


1. In a cloth measuring machine, a measuring roller adapted to be driven by cloth drawn through the machine, numbering wheels driven by the measuring roller, a sales ticket guide for guiding a ticket into proximity with one side of the numbering wheels, means for striking the ticket against said numbering wheels and position means for rendering said last mentioned means inoperative except at selected positions of the measuring roller and numbering wheels.

1,943,712
CAPACITOR

William M. Bailey, Lynn, Mass., assignor, by mesne assignments, to General Electric Company, a corporation of New York

Application October 24, 1929. Serial No. 402,164
20 Claims. (Cl. 175—41)

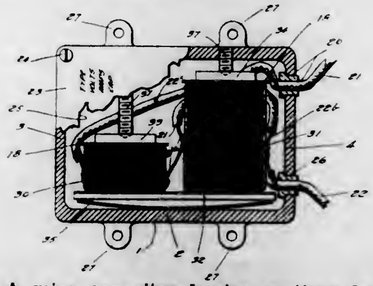


1. A condenser structure including a capacitor unit, a casing having an end including an opening, a closed end, two sides fast to the ends and one open side and enclosing the unit, an adjustable screw-threaded member having at least a portion within the casing adapted to retain the unit under compression, an abutment member adapted to have the screw-threaded member insertible thru the open side and having a shoulder adapted to rest on the inside of the end opening to take the thrust of the screw threaded member, and a locking member threaded on the screw-threaded member to take the thrust.

1,943,713
APPARATUS FOR SECURING ZERO CAPACITY-TEMPERATURE COEFFICIENT

William M. Bailey, Lynn, Mass., assignor, by mesne assignments, to General Electric Company, a corporation of New York

Application April 3, 1930. Serial No. 441,199
30 Claims. (Cl. 175—41)

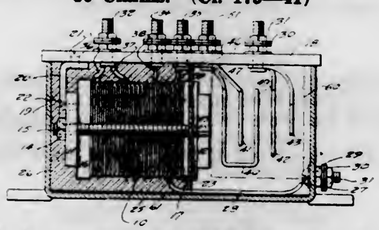


1. A mica capacitor having sections having mica and air as a dielectric and other sections having mica and a wax as a dielectric.

1,943,714
COMBINATION HIGH AND LOW CAPACITY CONDENSER

William M. Bailey, Lynn, Mass., assignor, by mesne assignments, to General Electric Company, a corporation of New York

Application May 21, 1930. Serial No. 454,337
36 Claims. (Cl. 175—41)



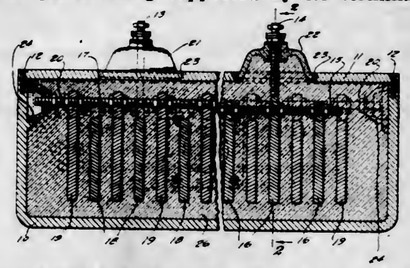
14. A composite condenser including a high capacity condenser consisting of closely associated armature and dielectric sheets, and a low capacity condenser connected thereto and including armature plates substantially spaced apart; a metallic casing for both such interconnected condensers; a barrier wall inside the casing between the two condensers; a mass of sulfur cast in place between and around the spaced armature plates of the low capacity condenser constituting the dielectric and an embedment therefor; and a mass of readily fusible insulating material other than sulfur cast in place about said high capacity condenser inside the casing as a mold and constituting an embedment of the high capacity condenser.

1,943,715
MOLDED DIELECTRIC CONDENSER

William M. Bailey, Lynn, Mass., assignor, by mesne assignments, to General Electric Company, a corporation of New York

Application June 25, 1930. Serial No. 463,619
18 Claims. (Cl. 175—41)

1. A capacitor comprising a casing, terminals thereon, a plurality of armature plates connected to one terminal, a plurality of armature plates connected to another terminal and a plurality of connected floating armatures, each set of terminal plates being supported by its terminal;

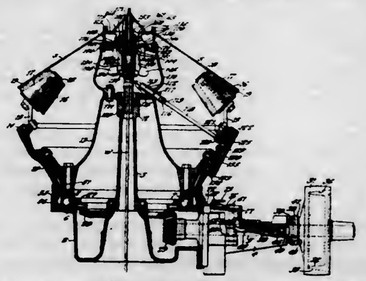


and insulating supporting means for the floating armatures, which last mentioned means is enclosed by said casing.

1,943,716
SERVING MACHINE

Willard W. Bardsley, Providence, R. I., assignor to Wardwell Braiding Machine Company, Central Falls, R. I., a corporation of Maine

Application February 1, 1932. Serial No. 590,145
21 Claims. (Cl. 117—45)



1. A rotatable flier-head for carrying a strand-supply, means for rotating the head, means for arresting the rotation of the head, centrifugally-operated means for actuating the arresting means, means for normally restraining said centrifugally-operated means from action, and means for releasing the restraining means to cause the centrifugally-operated means to be energized.

1,943,717
TUBE COUPLING

Frederick A. Barnes, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

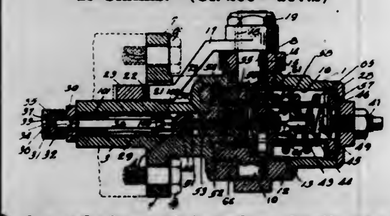
Application December 4, 1931. Serial No. 578,867
1 Claim. (Cl. 285—86)



In a two-part pipe connection having a body member provided with a threaded mouth and a curved seat adapted to receive the flared end of a pipe, means to hold said pipe on said seat comprising a threaded nut member cooperating with said threaded mouth, having a curved end adapted to clamp the flared end of the pipe against the seat, the thread on one of said members being parallel with the axis thereof throughout its length and of uniform depth, and the thread on

the opposed member being of uniform depth but inclined relative to the axis of said first mentioned member throughout its length, whereby the assembling of the two parts to clamp the flared end of the pipe is facilitated.

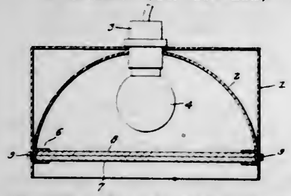
1,943,718
FUEL INJECTION DEVICE FOR INTERNAL COMBUSTION ENGINES
Guy A. Bell, Burlingame, Calif.
Application November 29, 1929
Serial No. 410,514
19 Claims. (Cl. 299—107.2)



8. A nozzle for an internal combustion engine, comprising a pressure chamber for holding fuel having communication with the engine, a valve for the communication, means for withdrawing fuel from the pressure chamber and for simultaneously introducing a corresponding amount, adapted to reintroduce the withdrawn fuel oil, means for controlling the amount withdrawn and reintroduced for controlling the pressure within the chamber and an operating means for the valve.

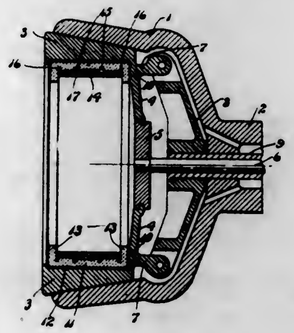
16. In a fuel injector, a pressure chamber having a retractible delivery valve and an intake valve coacting with the rear end thereof, a pin extending through the intake valve and bearing on the delivery valve and having means urging the delivery valve into closed position, pressure responsive means urging the two valves together and means for operating the intake valve.

1,943,719
ILLUMINATED CARD HOLDER
Leo John Buhr, Lake Zurich, Ill.
Application June 14, 1933. Serial No. 675,861
1 Claim. (Cl. 40—132)



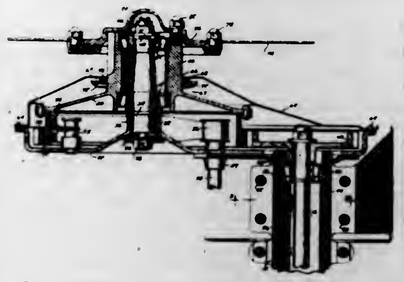
In an illuminated card holder of the character described, a casing, said casing including a back, side walls, a top wall and a bottom wall, the casing being open at its front, and having the forward edge of the top wall spaced inwardly from the corresponding edges of the side and bottom walls for providing an opening, a reflector in said casing having its forward end spaced inwardly from the front of said casing, channel guides removably disposed in the casing on the side walls and abutting the outer edge of the reflector for retaining the same in said casing, and a removable lens slidably mounted in said guides and a transparent identification card removably mounted in the guides inwardly of the lens, and a closure for the opening hingedly secured at one end to one side of the casing.

1,943,720
METHOD OF CASTING BRAKE DRUMS
Donald J. Campbell, Spring Lake Township, Ottawa County, Mich., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon Heights, Mich., a corporation of Michigan
Application November 2, 1932. Serial No. 640,793
6 Claims. (Cl. 22—206)



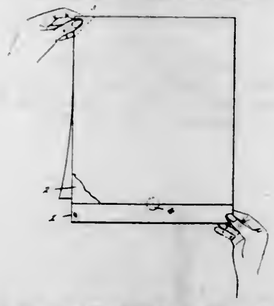
6. A method of producing a brake drum from two metals having different melting points, said metal having the higher melting point also having the greater density, which consists in, providing a rotating mold, melting and pouring the metal of the higher melting point into the mold, cooling the same for a predetermined time, and then melting and pouring the other metal into the mold and then cooling the drum.

1,943,721
INDEPENDENTLY SPRUNG WHEEL MOUNTING FOR MOTOR VEHICLES
Miles H. Carpenter, New Rochelle, and Charles B. Kirkham, Freeport, N. Y.
Application April 4, 1929. Serial No. 352,417
8 Claims. (Cl. 180—71)



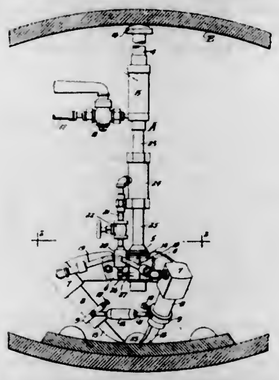
1. The combination with a body member of a motor vehicle, of a supporting member mounted for vertical movement relative to said body member, and constituting a receptacle for receiving lubricating oil, a hub portion extending into said receptacle and mounted for rotation relative thereto, an annular gear secured to said hub portion within said receptacle, the inner side of said annular gear constituting a brake drum, means within said receptacle cooperating with said drum for controlling the movement thereof, and driving means within said receptacle meshing said annular gear.

1,943,722
CARBON PAPER
William E. Clarke, Toronto, Ontario, Canada
Application September 6, 1932, Serial No. 631,902, and in Canada July 15, 1932
1 Claim. (Cl. 282—28)



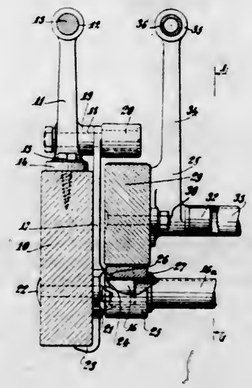
A reproducing sheet designed to be interposed between two work sheets, said reproducing sheet having a portion cut away from its reproducing area adjacent to the top end thereof, the reproducing sheet having a plain margin extension adapted to project beyond the edges of the work sheets, said reproducing sheet being formed within its margin with an opening including a part at least of the plain margin to thereby expose a portion of the edges of each of the underlying work sheets which would otherwise be covered by the reproducing sheet, whereby to determine the alignment of the edges of the work sheets by their exposure through said opening.

1,943,723
CALKING DEVICE
Charles A. Cottam, Chattanooga, Tenn., assignor to International Combustion Engineering Corporation, New York, N. Y., a corporation of Delaware
Application May 26, 1931. Serial No. 540,107
3 Claims. (Cl. 78—47)



1. In a rivet calking device a support including a reaction member, three or more hammers having reciprocating calking tools, the said hammers being rotatably and pivotally mounted on said support and substantially equally spaced peripherally thereof the said device being positioned with relation to the member to be calked by the engagements of the calking tools with the member to be calked and means for adjusting the relative position of the hammers.

1,943,724
AERIAL TRUSSED LADDER
Robert F. Cowell, Phelps Manor, Teaneck, N. J., assignor to International Motor Company, New York N. Y., a corporation of Delaware
Application June 16, 1931. Serial No. 544,800
1 Claim. (Cl. 228—18)



A truss construction for a ladder comprising a truss rod, a truss rod post secured to the ladder beam, a separate bracket, means to secure the ladder beam to the post, said bracket having a portion engaging the side of the ladder beam opposite from the post, a fly ladder roller, means to secure the bracket to the post, means coaxial with the last named means to secure the fly ladder roller to the bracket and post, and rung supporting means on the bracket.

1,943,725
METHOD OF CREATING ARTIFICIAL SEISMIC WAVES
Oscar E. Dudley and Con Lucid, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application January 9, 1929. Serial No. 331,340
3 Claims. (Cl. 181—0.5)

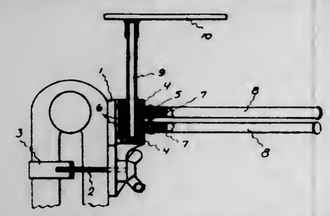


1. A method of creating artificial compressional earth waves which comprises firing an explosive charge in the ground at a depth of more than thirty feet in a tightly packed hole, said charge being insufficient to disrupt the surface of the earth from said depth, so that substantially the entire force of the explosion will be transmitted to the earth.

1,943,726
DRYING-FRAME
Ebba Catarina Maria Eklund, Lund, Sweden
Application October 14, 1931, Serial No. 568,828, and in Sweden August 3, 1931
4 Claims. (Cl. 211—86)

1. A drying frame for mounting on a radiator, comprising a plate, means for attaching said plate

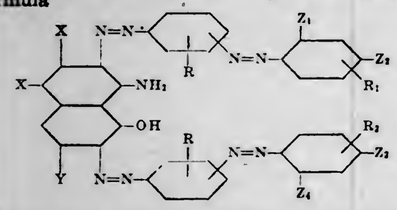
to the radiator, a plurality of lugs on said plate, a tubular stud mounted between said lugs, and a



plurality of substantially horizontally extending arms pivotally mounted about said stud between said lugs.

1,943,727
AZO-DYESTUFF
Richard Fleischhauer, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application May 12, 1932, Serial No. 610,980, and in Germany May 22, 1931
3 Claims. (Cl. 260—70)

1. The azo-dyestuffs of the probable general formula



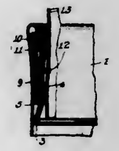
wherein one X means hydrogen, the other X a sulfonic acid group, Y hydrogen or a sulfonic acid group, one R hydrogen, an alkoxy, hydroxy, or carboxylic acid group, the other R an alkoxy, hydroxy or carboxylic acid group, Z_1, Z_2, Z_3, Z_4 mean amino- or hydroxy groups which may be substituted by alkyl, aralkyl, aryl of benzene series, and R_1 and R_2 mean hydrogen, alkyl, phenyl, halogen, sulfonic or carboxylic acid groups and wherein the azogroups of at least one benzene nucleus stand in meta-position to one another, said compounds representing when dry black powders soluble in water and dyeing vegetable fibers greenish black shades, which become fast to washing and light when after-treated with formaldehyde and copper salts.

1,943,728
BENDABLE WAVE COMB
Nell Fulton, New York, N. Y.
Original application December 17, 1932, Serial No. 647,810. Divided and this application May 10, 1933. Serial No. 670,342
4 Claims. (Cl. 132—38)



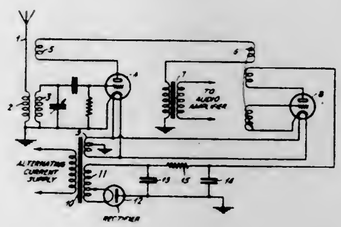
1. In a wave comb, a comb member having a tooth portion bendable lengthwise to conform substantially to the curvature of the head and adapted to lie flat thereagainst, said comb member also having a reinforcing and attaching flange extending outwardly at an angle from the tooth portion and provided with transverse slits admitting the bending of the tooth portion without flattening the flange.

1,943,729
GARMENT BAND
Milton L. Heller, New York, N. Y.
Application May 9, 1929. Serial No. 361,746
2 Claims. (Cl. 2—236)



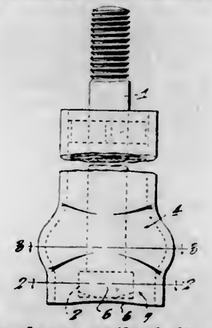
1. A garment band comprising two plies of material having a button-hole extending through and uniting said two plies of material, and said material having both edges turned over in the same direction at the upper edge of the band with one of the plies therebetween, said button-hole passing through the two plies and the included turned-in edge and the other turned edge forming a pocket adapted to receive the upper margin of a button when introduced through said button-hole.

1,943,730
RADIO FREQUENCY SHORT WAVE RECEIVER
Paul Hermanspann, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application May 12, 1932, Serial No. 610,799, and in Germany May 13, 1931
9 Claims. (Cl. 250—20)



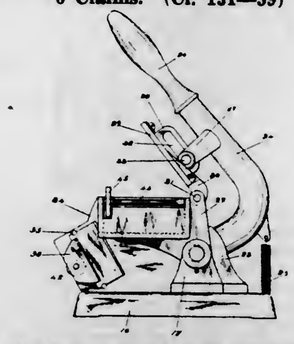
1. A super-regenerative ultra short wave circuit adapted to function on waves below ten meters comprising an electron discharge device having an anode and a control electrode, a source of alternating current for effecting the energization of the electrodes of said device, an input circuit coupled to said control electrode, a feed-back connection from said anode to said input circuit, an oscillatory circuit and an output circuit both being coupled to said feed-back connection.

1,943,731
ANCHOR BOLT
Carl F. Hetherington, St. Louis, Mo.
Application July 18, 1932. Serial No. 623,226
9 Claims. (Cl. 72—105)



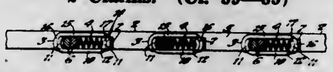
1. A bolt, a sleeve on the bolt, means to anchor one end of the bolt within the sleeve, and a spacing clip on the bolt in the sleeve.

1,943,732
DEVICE FOR OPENING PACKAGES AND OTHER WRAPPINGS
Hans Irmscher and George L. Buckley, New York, N. Y.
Application December 1, 1931. Serial No. 578,384
6 Claims. (Cl. 131—59)



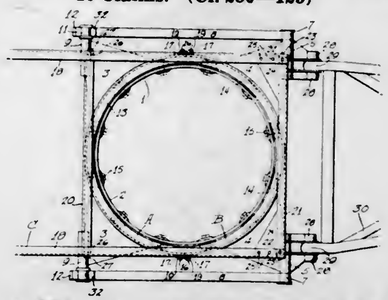
1. A package opening device comprising a base, a cutting device on the base, a package receiving receptacle on the base, means to move the receptacle toward the cutting device in the plane of the device and at an angle to the cutting edge thereof, means to hold a package in the receptacle, and means to urge a package in the receptacle in a direction across the cutting device.

1,943,733
FLEXIBLE BAND OR LINKAGE
Charles H. Kestenman, Providence, R. I., assignor to Kestenman Bros. Mfg. Co., Providence, R. I., a corporation of Rhode Island
Application January 5, 1932. Serial No. 584,813
2 Claims. (Cl. 59—85)



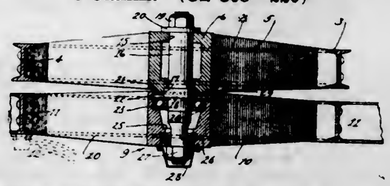
1. A band, chain or linkage comprising a plurality of loop-shaped links, certain of said links being constituted by two opposite complementary parts having arcuate portions at both ends adapted to snap one over the other in interengaging relationship to effect a unitary element for connection with other links in the series.

1,943,734
FIFTH WHEEL
John R. Konetsky, San Francisco, Calif.
Application October 5, 1932. Serial No. 636,373
10 Claims. (Cl. 280—125)



1. A fifth wheel comprising a casting having a circular band, rollers projecting radially from the band, outwardly flaring legs supporting the band and joined thereto so as to leave the outer surface of the band unobstructed, an annular channel receiving the rollers and composed of two semi-circular sections having outwardly extending threaded shanks, a trailer chassis having openings in its sides for receiving the shanks, nuts receivable by the shanks, said trailer having transverse pieces secured to the annular channel and to the trailer sides.

1,943,735
FIFTH WHEEL FOR TRAILERS
Bert F. Linton, Visalia, Calif.
Application July 27, 1929. Serial No. 381,613
6 Claims. (Cl. 308—220)

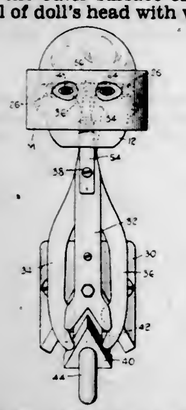


4. In a vehicle fifth wheel having upper and lower members, a shaft projecting downwardly from the upper member into the lower member and a combination anti-friction radial and axial thrust bearing for the shaft associated with the lower member, the bearing being arranged in close proximity to the axis of the shaft to prevent slight turning movements of the upper member from appreciably moving the anti-friction elements of the bearing, and lateral supporting bearings arranged above and below the said thrust bearing.

1,943,736
APPARATUS FOR AND METHOD OF MOUNTING FITTINGS IN FLEXIBLE DOLL HEADS
Samuel Marcus, Belle Harbor, N. Y., assignor to Margon Corporation, New York, N. Y., a corporation of New York
Application November 4, 1932. Serial No. 641,206
20 Claims. (Cl. 29—84)

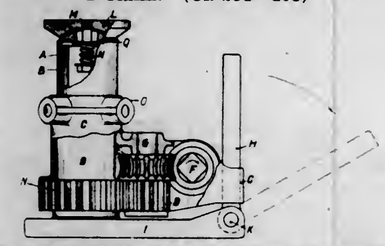
1. A restraining mask for supporting the flexible walls of a rubber doll's head during the mounting of an eye set therein, said mask comprising rigidly related support surfaces shaped

to conform to the outer surface of the particular size and model of doll's head with which the mask



is to be used, said mask being so shaped as to expose to view the eye openings of the doll's head.

1,943,737
COMBINATION JACK
Austin O. Middlemiss, Portland, Oreg.
Application May 31, 1929. Serial No. 367,285
1 Claim. (Cl. 254—103)



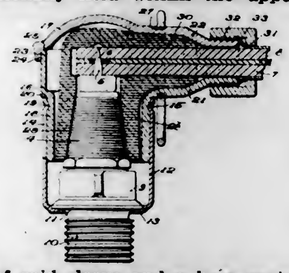
In a jack of the class described, the combination of a base with a screw attached, a threaded sleeve fitted to the screw, a gear housing surrounding the sleeve, hollow projecting bosses on the housing, a geared drive comprising a worm wheel and a worm embraced by the housing and a restraining member coacting with a notch in the housing of limited height and pivotally attached to the base member.

1,943,738
PROCESS AND COMPOSITION FOR HARDENING COPPER
Charles E. Moyer, Long, Md.
No Drawing. Application March 22, 1933
Serial No. 662,182
4 Claims. (Cl. 75—62)

1. The herein described process of hardening copper which comprises heating copper to its melting point, and adding thereto copper sulphate, salt and borax in suitable proportions.

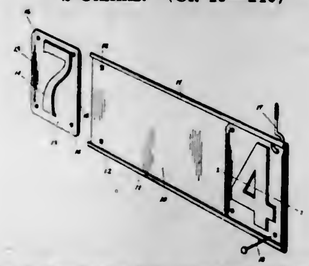
1,943,739
SPARK PLUG
Edward B. Nowosielski, Bloomfield, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application May 7, 1930. Serial No. 450,466
12 Claims. (Cl. 123—169)

1. A shield for a spark plug comprising a substantially cylindrical metallic sleeve having an inturned lip at its bottom adapted to engage the flange of a spark plug and a plurality of longitudinal slits adjacent its upper end, a metallic elbow having a cylindrical portion telescoping and frictionally held within the upper slitted



portion of said sleeve and a boss projecting at right angles to said cylindrical portion, and an elbow of insulating material within said metallic elbow adapted to insulate the positive terminal and ignition cable of a spark plug from the metallic parts of the shield.

1,943,740
INTERCHANGEABLE HOUSE NUMBER
Gustave J. Olson, Hastings, Nebr.
Application May 4, 1933. Serial No. 669,340
2 Claims. (Cl. 40—140)



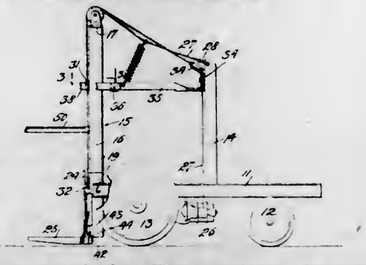
1. An interchangeable house number including a base member having its top and bottom edge portions turned outwardly and then into position parallel to the body portion of the base member, a plurality of number plates individually slidable on said base member between the outturned portions thereof, each of said number plates having outturned edge portions forming obtuse angles with the body portions of the number plates, the corners of said number plates being cut away, and means for securing said number plates against movement relative to said base member, said means being adapted to function to secure said interchangeable house number to a house.

1,943,741
HOSE INSERT
Joseph S. Pecker, Philadelphia, Pa.
Application January 27, 1932. Serial No. 589,265
2 Claims. (Cl. 223—18.6)



1. An insert and protector for hose, which insert includes a main member provided by a single piece of thin, flexible, foldable sheet material that provides the leg portion and the foot portion of the insert, and which insert has stiffening means provided at the toe and at the heel of the foot portion thereof for facilitating the initial inserting of the insert in the hose.

1,943,742
ARTICLE HANDLING DEVICE
Otis F. Presbrey, Brooklyn, N. Y.
Application October 8, 1928, Serial No. 311,233
Renewed March 15, 1932
5 Claims. (Cl. 214—65)



1. In an article handling machine, the combination of a vehicle, a support mounted to swing with respect to a transverse axis of the frame of the vehicle, a lifting fork at the lower end of the support, and a stationary forward and a stationary rearward stop on the vehicle and located above the said axis for abutment of the said support.

1,943,743
MOCCASIN
Linville S. Rice, Grace E. Rice, and Irene L. Johnson, Loomis, Calif.
Application February 24, 1930. Serial No. 430,975
1 Claim. (Cl. 36—11)



A low moccasin of the character described having an upper edge with a continuous curve in a horizontal plane defining the opening of the moccasin, a strip of material stitched to the inner upper edge of the moccasin and folded over the edge and stitched to the outside of the moccasin below the inner stitchings so as to form a continuous tube around the upper edge with a small opening in the outer face of the tube and a drawstring extending through the tube and having its free ends project though the opening so as to allow a bow to be tied adjacent the opening.

1,943,744
PROCESS OF REMOVING MERCAPTANS FROM HYDROCARBONS
Ludwig Rosenstein, San Francisco, Calif.
No Drawing. Application October 3, 1928
Serial No. 310,184
16 Claims. (Cl. 196—32)

1. In a process of treating hydrocarbons, the steps of contacting the hydrocarbons with an alkaline solution capable of removing substantially all of the hydrogen sulphide but of a strength insufficient to remove a substantial portion of the mercaptans in the hydrocarbons, subsequently contacting the hydrocarbons with a stronger alkaline solution in the absence of extraneous sulfur to remove mercaptans, and regenerating said last mentioned solution.

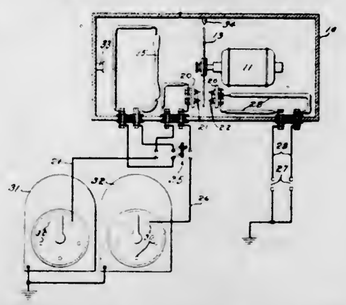
5. In a process of removing mercaptans from hydrocarbons substantially free of hydrogen sulfide, the steps of contacting the hydrocarbons with a relatively concentrated solution of an alkali, and effecting regeneration of the solution by oxidation in the presence of an oxidation catlyst consisting of a compound of a divalent element of the eighth group of the periodic system.

1,943,745
GARMENT HANGER
Henry Sanford, New York, N. Y.
Application April 8, 1931. Serial No. 528,519
2 Claims. (Cl. 223—62)



1. In a garment holder, a cross piece, a strap loop whose upper and lower plies extend from one end of the cross piece to the other, a suspension element connected to the middle of the upper ply of said strap loop, means detachably connecting said strap loop to one end of said cross piece, and means for permanently connecting said strap loop to the other end of said cross piece.

1,943,746
MEANS FOR DETERMINING THE SYNCHRONISM OF ELECTRICAL SYSTEMS
John W. Simmons, Cleveland, Ohio, assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y., a corporation of New York
Application July 22, 1929. Serial No. 380,029
2 Claims. (Cl. 234—1.5)



1. In a device for determining the synchronism of ignition systems, a light adapted to be energized by said systems, a rotating screen having a mark thereon to be illuminated by said light, and means for determining the relative positions the mark takes when the light is illuminated by either system.

1,943,747
METAL LEAF PACKAGE
Walter O. Snelling, Allentown, Pa.
Original application January 20, 1926, Serial No. 82,563. Divided and this application February 18, 1929. Serial No. 340,987
7 Claims. (Cl. 206—71)



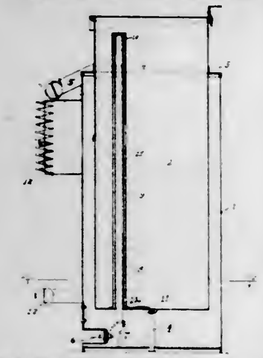
1. A package roll of metallic leaf comprising a continuous perforated supporting strip and metallic leaf on the outside of the strip so that as the package is unrolled on a surface the leaf will be next to the surface, and the user can blow gently thru the perforations to transfer the leaf from the strip to said surface.

1,943,748
APPARATUS FOR UNCOILING METAL STRIP
Howard H. Talbot, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1931. Serial No. 560,982
13 Claims. (Cl. 242—78)



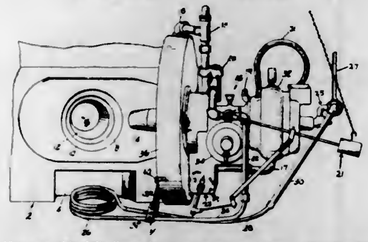
1. In an apparatus for uncoiling a coil of metal strip, the combination of a coil support, means for rotating a coil mounted on said support means, means arranged adjacent said support for engaging the end of the strip at the periphery of the coil when it is rotated into registration therewith, and means for effecting relative movement between said end engaging means and the coil to separate the strip therefrom.

1,943,749
WAX HOLDER
Harold E. Trent, Lansdowne, Pa.
Application January 22, 1929. Serial No. 334,341
6 Claims. (Cl. 219—44)



1. Apparatus for melting wax comprising a jacket containing a heating element rigidly mounted therein and a melting pot apertured to receive the said element, adapted for ready insertion into and removal from the jacket, said jacket and said pot being of such dimensions as to provide a heat insulating space between their respective walls when assembled.

1,943,750
FLUID HEATER ECONOMIZER
George G. Tryon, Glendale, Calif.
Application April 25, 1931. Serial No. 532,976
4 Claims. (Cl. 158—36)



1. In a fluid heater economizer, including a conventional heater having the usual fire box associated therewith provided with an upper firing opening and a lower clean out opening, a fluid atomizer, fluid pumping and burner assembly for conveying a combustible mixture to said atomizer, pivotally connected to said heater adjacent said upper opening, the combination of a preheating coil, means for connecting said coil in fluid circuit with said atomizer, fluid pumping and burner assembly, said means including pipe extensions from said coil, whereby said coil, as said assembly is swung toward and away from said heater, will be inserted into or withdrawn from said fire box through said lower opening, for the purpose described.

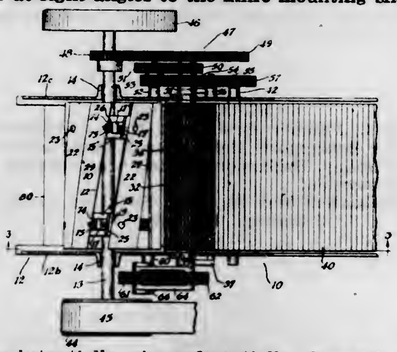
1,943,751
LIP SHIELD
Helen Louise Van Dunker, San Antonio, Tex.
Application September 13, 1932
Serial No. 633,013
2 Claims. (Cl. 2—174)



1. Means for preventing rouge from the lips of a user soiling garments when the garment is being removed or placed on the body of the user, comprising a shield formed of a single piece of non-metallic material and including upper and lower relatively narrow members having their inner ends connected together by a fold line and each having an arcuate enlargement at its outer end, said enlargement having pointed ends extending beyond the side edges of each member, an upwardly extending lip covering portion connected with the outer edge of the enlargement of the upper member and a downwardly extending lip covering portion connected with the outer edge of the enlargement of the lower member, the ends of each lip covering part extending well beyond the ends of the enlargement, each lip covering part having its inner portion sloping outwardly to cover the lip and its outer portion sloping inwardly to cover portions of the face adjacent the lip.

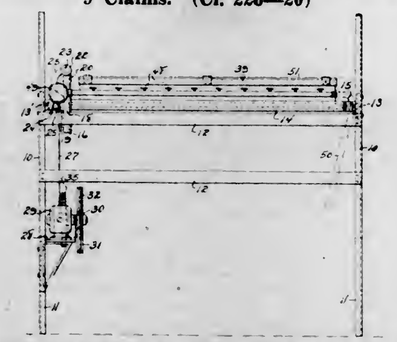
1,943,752
SHREDDING APPARATUS
Francis M. Wick, Youngstown, Ohio
Application June 12, 1933. Serial No. 675,434
9 Claims. (Cl. 164—68)

1. Apparatus for shredding paper and the like including, a rotatable shaft, a plurality of circumferentially disposed knives mounted on the shaft and each having a cutting edge, a cutting bar cooperatively associated with said knives for shearing into strips paper passing over the cutter bar, upper and lower feed rolls adapted for feeding a pack of paper sheets onto the cutter bar at right angles to the knife mounting shaft,



a substantially circumferentially disposed deflecting plate positioned adjacent to and spaced radially inward from the cutting edge of each knife for deflecting the paper strips substantially radially outward, means for driving the rotatable shaft, and means operatively connecting the rotatable shaft and the feed rolls.

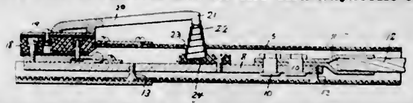
1,943,753
APPARATUS FOR CARBONATING LIQUIDS IN RECEPTACLES
Frank J. Biane, Cucamonga, and Samuel B. Rowe, Upland, Calif.
Application July 31, 1933. Serial No. 683,064
9 Claims. (Cl. 226—20)



1. In an apparatus of the character described, a supporting structure, a basket supporting frame mounted for rocking movement thereon, a basket removably fitted in said frame and divided into parallel compartments, means for clamping liquid containing receptacles in said compartments, a gas intake manifold supported by the basket and having individual valve controlled communication with each receptacle, and means for rocking and agitating said basket.

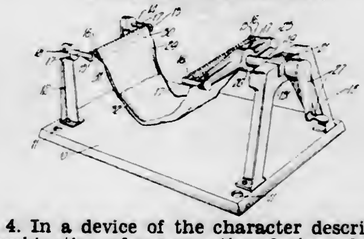
1,943,754
WELDING ROD HOLDER
Joseph Buttaci, Corona, and Joseph J. Goers, New Dorp, Staten Island, N. Y.
Application January 20, 1931, Serial No. 510,047
Renewed July 24, 1933
2 Claims. (Cl. 219—8)

1. A welding rod holder comprising a hollow insulating handle, a conductor bar projecting longitudinally in the handle and terminating at its ends therein, said handle being provided with a slot at one end thereof, a jaw swingably mounted on the conductor bar at the end adjacent the



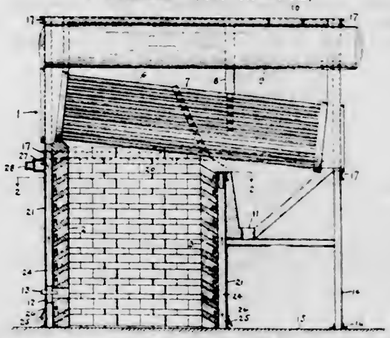
slot in the handle, a shank on the jaw operative through the handle slot, and a spring impinged against the outer end of the shank normally tensioning the jaw against the bar.

1,943,755
DEVICE FOR WRINGING HOT PACKS AND THE LIKE
Joseph M. Cantwell, Delmar, N. Y., assignor of one-half to Edward J. B. Murray, Albany, N. Y.
Application August 6, 1930. Serial No. 473,506
4 Claims. (Cl. 128—268)



4. In a device of the character described, the combination of a supporting device, of a rotatable shaft mounted thereon, a cross head mounted on said shaft, non-rotatable supporting means mounted on said supporting device, a piece of flexible material adapted to receive a hot pack and provided at its ends with openings extending transversely thereof, rods adapted to be received in said openings, said cross head and said non-rotatable supporting means being provided with members for the reception of the ends of the respective rods, means whereby said shaft may be rotated, and spring means associated with said members for normally preventing movement of said rods beyond the said members.

1,943,756
FURNACE CONSTRUCTION
George W. Davey, Mahwah, N. J.
Application July 25, 1928, Serial No. 295,178
Renewed July 27, 1931
7 Claims. (Cl. 72—101)



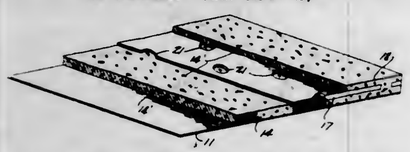
6. A furnace structure comprised of a series of vertical buckstays in spaced relation to each

other, means for supporting said buckstays in position, a series of adjustable upwardly sloping bracket members mounted on said buckstays, said bracket members supporting a horizontal tube and a series of upwardly sloping diamond-shaped refractory blocks supported on said tube.

1,943,757
SOUNDPROOF BOARD AND PROCESS OF MAKING SAME

John H. Delaney, Los Angeles, Calif.; Union Bank & Trust Co. of Los Angeles, administrator of said John H. Delaney, deceased, assignor to estate of Ada W. Delaney, deceased

Application May 13, 1930. Serial No. 451,975
5 Claims. (Cl. 154—2)



1. An acoustic board comprising two layers of plaster, said plaster having solidified gas bubbles interspersed therein, and a layer of yieldable sound absorbing material between said plaster layers, said sound absorbing material being hole punched to provide interlocks for the two plaster layers.

1,943,758
PROCESS OF CONCENTRATING ORES AND MINERALS BY FLOTATION

William A. Douglass, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 25, 1925
Serial No. 11,589
28 Claims. (Cl. 209—166)

11. In the process of concentrating ores and minerals by flotation, the step which comprises subjecting the ore in the form of a pulp to a froth flotation operation in the presence of a substance whose molecular structure is that indicated by the following general formula:

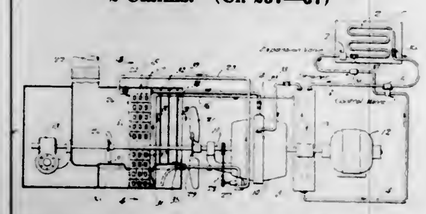
R—O—C(:S)—S—X

where R is a hydrocarbon radical, and X is a radical containing at least one carbon atom.

1,943,759
CONDENSER SYSTEM FOR MECHANICAL REFRIGERATION

Wilfred Fourness, Oakland, Calif., assignor to The Fourness Development Corporation, Ltd., New York, N. Y., a corporation of New York

Application September 19, 1932
Serial No. 633,752
2 Claims. (Cl. 257—37)

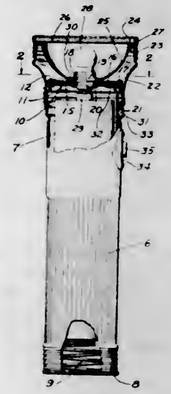


1. In a condenser cooling device for a refrigerating system, a multi-layer convoluted conduit forming a condenser space, a fan for passing air around the conduit, a spray head above the conduit, having a series of jets directed downwardly over the conduit, a spreader plate sloping downwardly toward the conduit and below the jets, a series of staggered baffle plates back of the conduit, a tank for collecting liquid at the bottom of the conduit and the baffle plates, and means for circulating an evaporizable liquid from the tank to the spray head.

1,943,760
FLASH LIGHT

Giles C. Fullmer, Bridgeport, Conn., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut

Application May 16, 1932. Serial No. 611,527
3 Claims. (Cl. 240—10.66)



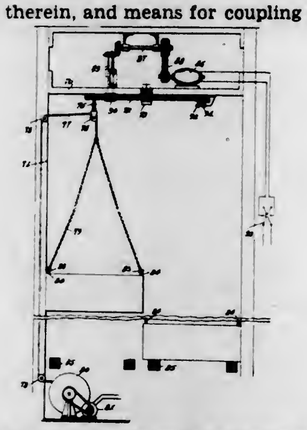
1. In a flash light, a casing having an open end, a bead in said casing inwardly of said open end, a pressed fibre ring in the open end of said casing and bearing against and supported by said bead, said fibre ring including inner and outer portions and a connecting portion, a disc of conducting material of a diameter substantially equal to the inner diameter of said casing and extending over the inner portion of said bead and supported in said ring and engaging the inner and connecting portions thereof and insulated from the casing thereby, a disc of insulating material disposed in said ring on said disc of conducting material and supported thereby, said discs being substantially co-extensive, said casing having its open end portion turned inwardly against the outer portion of said ring and maintaining said outer portion against said disc of insulating material and clamping said ring against said bead, said discs having registering openings therein, a lamp socket extending through said openings and mounted by said discs and contacting with said disc of conducting material, a conductor engaging said disc of conducting material, and a switch to close a circuit between said conductor and the casing.

1,943,761
ELEVATOR

William E. Hastings, Jetmore, Kans.

Application March 11, 1930. Serial No. 434,839
9 Claims. (Cl. 187—1)

1. In an elevator, a plurality of floor sections, an elevator shaft and means for guiding said sections therein, and means for coupling selected



sections to constitute a unit variously allocated in said shaft.

1,943,762
PACKAGING AND DISPLAY MEANS

George J. Harris, Providence, R. I., assignor of one-third to Morris L. Harris, Providence, R. I., and one-third to Harold C. Osler, Boston, Mass.

Application August 23, 1932. Serial No. 630,008
7 Claims. (Cl. 229—87)



1. A packaging and display means for merchandise consisting of a single sheet of relatively stiff material folded substantially along the central longitudinal line thereof to provide at least a double thickness of the sheet material for the walls throughout their extent and having two groups of spaced creases formed therein for separating the sheet into a central section and opposed end sections, said creases being arranged at substantially right-angles to the longitudinal fold line whereby the sections may be folded to form either a flat or a tubular container, one of said end sections being interfitted between the thicknesses of the opposite end section to bring the longitudinal fold lines of the end sections into substantial coincidence and retain the interfitted end sections in interlocking relation with each other and normally maintain the walls in merchandise holding position.

1,943,763
CURTAIN FRAME CONSTRUCTION

Frank A. Hoiles, Alliance, Ohio, assignor of one-half to Ruth E. Cope, Alliance, Ohio

Application July 29, 1932. Serial No. 626,021
8 Claims. (Cl. 45—24)

1. Curtain frame construction including relatively movable frame members, a substantially L-shaped clamp member secured on the end of one frame member and having a leg extending around the outside face of an adjoining frame member, the outside face of said adjoining frame member being provided with a surface inclined away from said leg, a clamping plate located between said leg and the outside face of the adjoining frame member for abutment with said

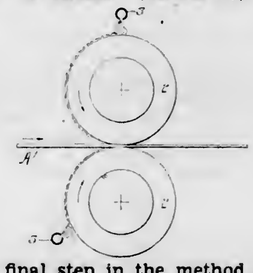


inclined face, and means on said clamp member and acting perpendicular to said inclined face for moving the clamp plate into clamping abutment therewith.

1,943,764
METHOD OF SURFACE TREATMENT OF METAL

Harry H. Holloway, Apollo, Pa., assignor to Apollo Steel Company, Apollo, Pa., a corporation of Pennsylvania

Application October 24, 1931. Serial No. 570,800
5 Claims. (Cl. 148—7)

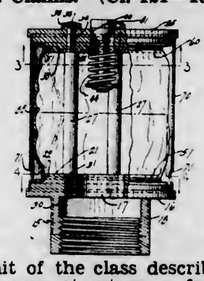


1. The final step in the method of finishing steel sheets consisting in applying an oxidizing blue finish to the opposite sides of thin previously densified steel sheets by re-heating the sheet, then passing it between a pair of polished rolls each supplied with an individual water film, and effecting instantaneous oxidation and compression of the resulting oxide upon and into opposite sides of the sheet throughout their surface areas.

1,943,765
CRANK CASE BREATHER

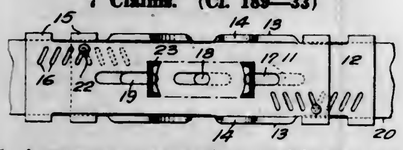
Ronald L. Jones, Muskegon, Mich.

Application March 22, 1930. Serial No. 438,186
2 Claims. (Cl. 121—194)



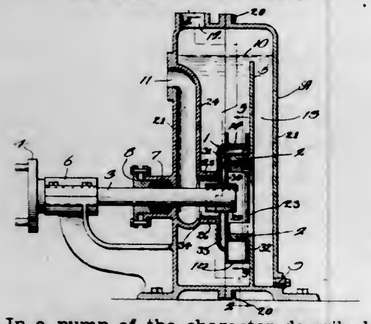
1. In a unit of the class described, a flexible hollow diaphragm structure, a frame including an upper support and a lower support, one of said supports having a passageway therethrough, means attaching an end of said diaphragm structure to the upper support and means attaching the opposite end of said diaphragm structure to the lower support, and means spacing apart said supports and limiting movement of the walls of said diaphragm toward and away from each other.

1,943,763
POLE CLAMP
John J. MacDonald, Montreal, Quebec, Canada, assignor to Frank M. Simpson, Montreal, Canada
Application September 30, 1929
Serial No. 396,224
7 Claims. (Cl. 189—33)



1. A cross arm support comprising a pair of plates, flanges on said plates adapted to engage edgewise with a pole, one of said plates being embraced between the flanges of the other plate, and lugs on said embraced plate embracing the other plate and adapted to embrace a cross arm, and means to clamp the plates between a pole and a cross arm.

1,943,767
VACUUM AND COMPRESSION PUMP
Edward F. McCarthy, Chicago, Ill., assignor of one-half to Charles H. McCarty, Chicago, Ill.
Application May 9, 1931, Serial No. 536,191
Renewed December 8, 1933
6 Claims. (Cl. 230—108)



1. In a pump of the character described, the combination with a casing vertically partitioned to provide two compartments for a circulating liquid; of a rotor mounted in one compartment and adapted to operate immersed in the liquid, said rotor having an impeller vane and a fluid passage adjacent thereto, said passage having a delivery port on the radially underside of the vane and a laterally opening admission port arranged for communication with a fixed passage for conducting the fluid to the rotor; and means for alternately opening to and shutting off communication from the liquid from the other compartment to the rotor, whereby a reduced pressure area is developed in the rotor fluid passage as the rotor is alternately shut off from communication with said second named compartment.

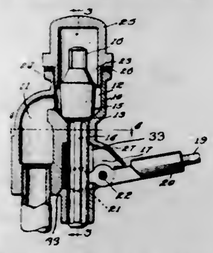
1,943,768
CURTAIN PROTECTOR
Palmer O. Melaas, Fergus Falls, Minn.
Application October 10, 1933. Serial No. 693,036
3 Claims. (Cl. 156—33)

2. A curtain protector of the class described comprising a pair of uprights, extensible members connected with the same, a front bar adjustable as to its length, loop members for connecting said front bar to the uprights, and a pivoted member on each loop member for hold-



ing a part of the curtain between itself and a part of the loop member.

1,943,769
FLUSHING TANK VALVE
James Melio, Chicago, Ill.
Application April 16, 1930. Serial No. 444,739
1 Claim. (Cl. 137—104)

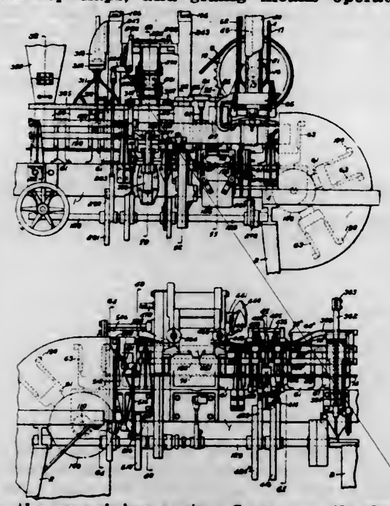


A flush valve comprising an integral shell having inlet and outlet passages, and a valve disposed in said shell and having a longitudinally slotted stem located in said outlet passage, said shell having an auxiliary exhaust opening in the lower portion of the side wall of said outlet passage, and there being an annular chamber in the lower portion of the side wall of the outlet passage adjacent said exhaust opening to create back pressure for forcing water through said opening, an overflow pipe adjacent to and communicating at one end with said auxiliary exhaust opening and said annular chamber and at the other end indirectly to the toilet bowl, the said back pressure created in said annular chamber also being adapted to force water upwardly through said overflow pipe.

1,943,770
PACKAGING MACHINE
Edwin Morey and Robert H. Stimpson, Nashua, N. H., assignors, by mesne assignments, to Frederick L. Emery, Boston, Mass.; Grace H. Emery executrix of said Frederick L. Emery, deceased
Application December 21, 1929
Serial No. 415,683
27 Claims. (Cl. 93—6)

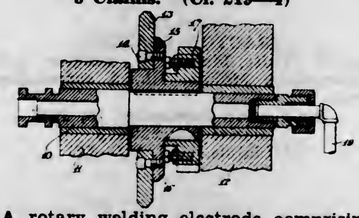
1. In a packaging machine provided with a carton feeding magazine, the combination therewith of carton opening means acting also to position the carton opened and parallel with the path of travel through the machine, and an endless carton conveyor, a bed plate having thereon for successive operation lower minor flap folding means positioned in the vertical and lateral paths of the carton and arranged to infold said flaps, and lower major flap two side gluing means operative while the carton is stationary comprising a feeding member and independently driven applying members radially equally positioned from the feeding member acting in an upward path upon two faces of the downwardly extended flap; and liner forming and inserting means and means for folding and

means for closing the liner top and some of the carton top flaps, and gluing means operative



upon the remaining carton flaps over the liner top; and means for folding the carton flaps.

1,943,771
WELDING ELECTRODE
James J. Paugh, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 19, 1929, Serial No. 386,839
Renewed June 5, 1933
3 Claims. (Cl. 219—4)

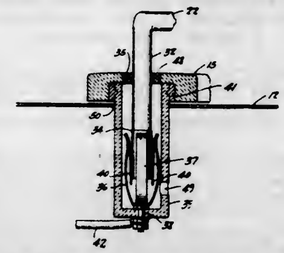


1. A rotary welding electrode comprising, in combination, a hollow shaft, a pair of disc members secured to said shaft to rotate therewith, having opposed peripheral sections comprising clamping portions, a removable conducting electrode portion of substantially figure-eight cross section having its minor section secured between said clamping portions and completing an enclosed space for a cooling medium, and means to impart rotary motion to said electrode.

1,943,772
LUMINOUS TUBE SIGN
Willis O. Prouty, Hermosa Beach, Calif., assignor to Metlox Corporation, Ltd., Manhattan Beach, Calif., a corporation of California
Application April 12, 1930. Serial No. 443,737
6 Claims. (Cl. 40—130)

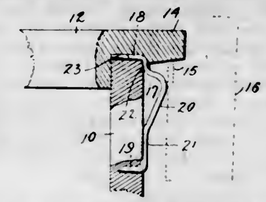
1. In a device of the character described, a character adapted to be supported on a background portion, a luminous tube mounted on the character, said tube having an end with a conducting member for transmitting electrical energy into said tube, and a connection means for

said tube, said connection means being separable from the conducting member, and supported on the character at the rear thereof, and in



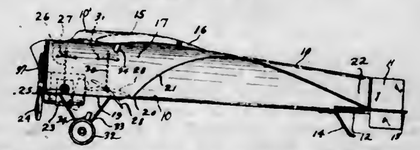
alinement with an aperture in the character for the insertion of the tube end, said connection means being adapted to extend into an aperture in the background portion.

1,943,773
BEEHIVE FRAME SPACER
Alan I. Root, Medina, Ohio, assignor to The A. I. Root Company, Medina, Ohio
Application March 22, 1933. Serial No. 662,158
5 Claims. (Cl. 6—2)
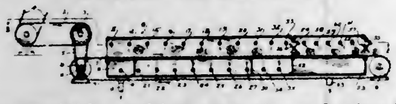


1. As an improvement in beehive spacing devices, the combination of a frame composed of top and end bars and a spacer having top and bottom horizontal legs and an outwardly offset hive wall engaging portion between the legs, the lower leg being driven horizontally into the end bar and the upper leg lying between overlapping portions of top and end bars that provide a space that receives such leg.

1,943,774
AIRPLANE
Harold E. Shaw, Bridgeport, Conn.
Application August 19, 1930. Serial No. 476,299
13 Claims. (Cl. 244—14)



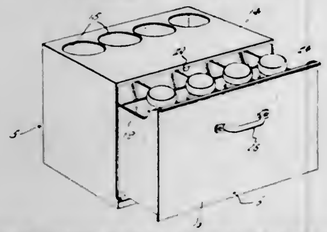
11. In an air plane, a longitudinally extending fuselage, a wing extending laterally on opposite sides thereof, control means at the rear end of the fuselage, a partial tunnel open at its lower side located on each side of the fuselage below the wing and extending longitudinally of the fuselage, a transverse vane in each tunnel, a propeller in alignment with each tunnel forwardly of the vanes so that the slip stream therefrom is caught by the walls of the tunnel and vanes and directed to the control means, and means for tilting the propellers and vanes.

1,943,775
VEGETABLE CLEANSING AND BLANCHING APPARATUS
Henry Porterfield Taylor, Walkerton, Va.
Application January 30, 1931. Serial No. 512,362
1 Claim. (Cl. 146—194)



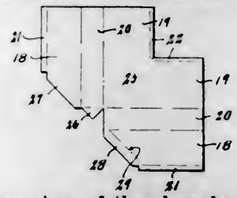
In vegetable washing apparatus a horizontal endless openwork conveyor, means for moving said conveyor, a second horizontal openwork endless conveyor aligned with the first conveyor and having one end thereof located below one end of the first conveyor, means connecting the two conveyors to drive the second conveyor at a greater speed than the first, a horizontal casing through which the upper branch of the second conveyor moves, baffle plates extending across the casing below said upper branch and dividing the casing into three compartments, a settling tank for cleansing water, a manifold, a series of spray pipes extending from said manifold across the first and second compartments on opposite sides of the upper branch, means for forcing water from said tank to and through said manifold and spray pipes, a waste pipe for discharging water from the first compartment, means for returning water from the second compartment to the said tank, a series of spray pipes arranged across the third compartment on opposite sides of said upper branch, valve controlled means connecting said last named spray pipes with a fresh water supply main, and means for conducting water from the third compartment to said tank to replenish the supply therein as diminished by the discharge through said waste pipe.

1,943,776
MILK RECEPTACLE
Gerrit Andrew Van Voorst, Steen, Minn.
Application February 18, 1932. Serial No. 593,840
1 Claim. (Cl. 232—41)



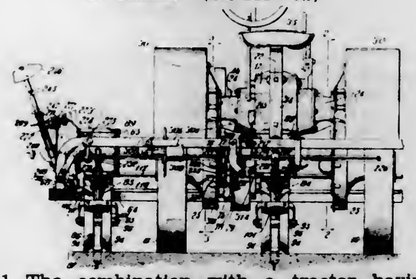
A milk bottle deposit receptacle comprising a housing including top, bottom, rear and side walls and having an open front, said top wall being provided with an opening, a drawer-like carrier slidably mounted in said housing and substantially filling the interior thereof, said carrier having a compartment for empty bottles and a second compartment for full bottles, said carrier being substantially withdrawable from said housing through the open front thereof to expose and provide access to said first and second-named bottle compartment, said empty bottle compartment registering with the opening in the top wall of said housing when said carrier is positioned in said housing, the bottom wall of said housing being provided with a longitudinal rib, and swingable latch means carried by the bottom of said carrier and engageable with said rib for normally holding said carrier against withdrawal from said housing, said latch means being swingable to an inoperative position upon the insertion of an empty bottle into said empty bottle compartment through the opening in the top wall of said housing to permit said carrier to be substantially withdrawn from said housing.

1,943,777
FRAME CORNER CONSTRUCTION
Orien P. Wallace and Ralph F. Whybark, St. Louis, Mo.
Application February 28, 1931. Serial No. 519,039
2 Claims. (Cl. 20—92)



1. A corner piece of the class described comprising a single piece of sheet metal having one integral side wall and having the edge walls and the other side wall formed in two sections, each edge wall section and corresponding side wall section being formed integral with one of the sections of the first side wall, one of the edge wall sections being provided with an extension adapted to be welded in overlapping relation to the opposite edge wall section when the blank is formed and the separate side wall sections being adapted to be welded together and secure said blank in folded position, the inner edges of each side wall having longitudinal extensions adapted to be bent to form opposed flanges.

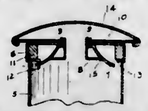
1,943,778
TRACTOR PLANTER
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 19, 1927
Serial No. 220,472
47 Claims. (Cl. 111—52)



1. The combination with a tractor having drive wheels, of a planting implement connected to said tractor and comprising a plurality of planter units comprising seed dropping mechanisms disposed between and on the outer sides of said drive wheels.

41. The combination with a tractor having a drive wheel, of a planting implement connected to said tractor and having planter units each comprising a seed dropping mechanism, said seed dropping mechanism being disposed at opposite sides of said drive wheel and immediately adjacent the sides thereof.

1,943,779
CAP
Anthony Zay, Cleveland, Ohio
Application February 10, 1932. Serial No. 591,977
3 Claims. (Cl. 220—40)



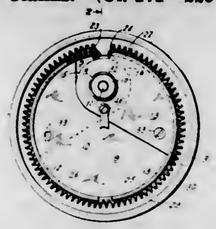
1. A cap for a container, the latter having a neck with an inwardly extending lip and from said lip two downward extending projections, diametrically opposite, comprising a rotating head, lock spring resting thereon to normally assume downward angles, a hub formed with said rotating head and passing centrally through lock spring and body and fastened to a disc, to which the cap is fastened so that by rotating said cap will cause the lock spring to contact downward extending projections and continuing rotation will impart an outward and upward movement of the lock spring for forcing said lock spring in gripping engagement with the extending lip and a washer in the cap and engageable with the lip to provide leak proof connections between the cap and lip.

1,943,780
APPARATUS FOR DISCHARGING AN ASH HOPPER
Frank B. Allen, Lower Merion Township, Montgomery County, Pa., assignor to The Allen-Sherman-Hoff Company, a corporation of Pennsylvania
Application September 15, 1930
Serial No. 481,938
9 Claims. (Cl. 302—52)



1. In apparatus for handling finely divided material, the combination of a hopper having a discharge opening, a valve housing secured to said hopper and in communication with said opening, said housing having air inlet and outlet passages, means for simultaneously opening and closing said passages, and means for creating a suction in the said outlet passage.

1,943,781
ELECTRICAL APPARATUS
Joseph W. Allen, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application June 19, 1931. Serial No. 545,537
11 Claims. (Cl. 171—229)

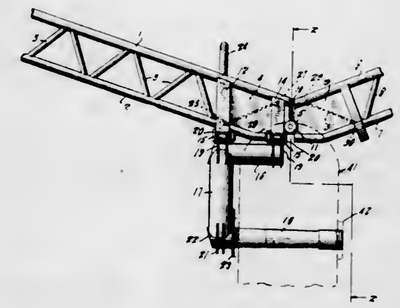


1. Power supply means for an electrical circuit comprising a generator feeding said circuit, a pair of arcuate current conducting elements connected to the rotor of said generator, means for electrically connecting said elements, and means responsive to changes in the rotor speed for increasing the resistance of said connecting means, said last named means comprising a resistance unit normally in engagement with said arcuate elements and movable out of such engagement in response to speed changes of said rotor.

1,943,782
CORROSION RESISTANT ARTICLE
Frederick M. Becket, New York, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Original application April 29, 1930, Serial No. 448,428. Divided and this application October 29, 1932. Serial No. 640,339
2 Claims. (Cl. 196—133)

1. An oil cracking tube composed of a ferrous alloy containing about 16% to 22% of chromium, about 6% to 16% of manganese, and carbon, the carbon content being not more than about 0.3%, and the balance being substantially all iron.

1,943,783
LANDING GEAR
Giuseppe M. Bellanca, New Castle, Del.
Application July 2, 1931. Serial No. 548,438
11 Claims. (Cl. 244—2)

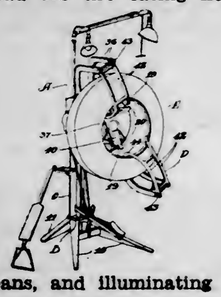


1. An airplane landing gear comprising a stub axle, a leg rigidly secured to one end of the stub axle and formed, at its other end, with a lateral extension substantially parallel to the stub axle, means spaced apart on said extension to pivotally connect it to the airplane, a compressible unit having one of its ends pivotally connected to said leg and the other end connected to the airplane and a wheel mounted on said stub axle.

1,943,784
AUTOMATIC TIRE SPREADER
Charles E. Branick, Fargo, N. Dak., assignor to Branick Manufacturing Company, Incorporated, Fargo, N. Dak., a corporation of North Dakota
Application April 13, 1931. Serial No. 529,614
15 Claims. (Cl. 154—9)

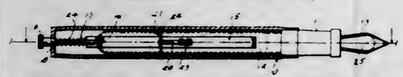
13. The combination of, a pneumatic cylinder, means for rotatably supporting the same on a standard, tire spreading means carried by one end of said cylinder including hook members adapted to extend around the outside of a tire

casing, said hooks being operated by said cylinder to spread the tire casing held by said



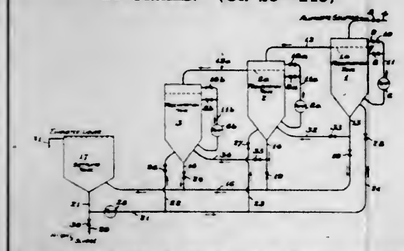
spreading means, and illuminating means for said spreader.

1,943,785
SELF-FILLING FOUNTAIN PEN
James M. Burroughs, Tipton, Iowa
Application July 30, 1932. Serial No. 626,811
1 Claim. (Cl. 120—46)



In a fountain pen including a cylindrical casing and a compressible bladder, an elongated deflator mounted in said casing and extending longitudinally of said bladder, said deflator having an inclined outer end portion, a pin secured to one end of said deflator and extending outwardly through one end of the casing, means carried by the casing and engaging the deflator for moving the deflator laterally coactively with the longitudinal movement thereof, said means including a lever pivotally secured at one end to said deflator, said casing having an annular groove on the interior thereof and an annular securing means seating in said groove for rockably securing the opposite end of said lever to said casing, said securing means having a flat portion to receive an end of said lever.

1,943,786
PROCESS OF SEPARATING ALUMINA FROM ALKALI METAL ALUMINATE SOLUTIONS
Alfred H. Cowles, deceased, late of Sewaren, N. J., by Evarts Lincoln Prentiss, executor, Brooklyn, N. Y., assignor to The Electric Smelting & Aluminum Company, Cleveland, Ohio, a corporation of Ohio
Application October 10, 1930. Serial No. 487,756
14 Claims. (Cl. 23—143)

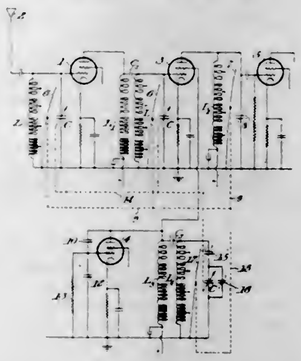


1. The process of separating alumina hydrate from an alkali metal aluminate solution, which comprises supplying such solution to a series of precipitation tanks, permitting the solution to overflow progressively throughout the series of tanks during precipitation, and withdrawing fluid from the upper portion of each tank and returning it to the bottom portion of the same tank by an independent circulating means, thereby causing agitation in the precipitation tanks.

1,943,787
DYEING AND THE LIKE
David Alexander Whyte Fairweather and John Thomas, Grangemouth, Scotland, assignors to Scottish Dyes, Limited, Grangemouth, Scotland
No Drawing. Application January 24, 1930, Serial No. 423,179, and in Great Britain February 8, 1929
11 Claims. (Cl. 8—5)

1. The process which consists in applying sulphuric esters of reduced products of the group consisting of vat dyestuffs, anthraquinones, naphthoquinones and indigos having the ester groups attached to the reduced quinone positions and containing an azo linkage to textile fibres and subjecting the thus treated fibres to the action of an acid oxidizing agent.

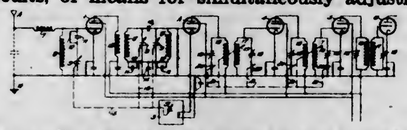
1,943,788
MULTIRANGE SUPERHETERODYNE RECEIVER
Paul O. Farnham, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a corporation of New Jersey
Application December 28, 1931
Serial No. 583,488
12 Claims. (Cl. 250—20)



1. In the operation of a superheterodyne receiver having a carrier frequency input circuit and an oscillator each adapted to be tuned over a plurality of frequency bands, the method of receiving signals in different frequency bands which comprises providing a different but constant intermediate frequency for each band of received signal frequencies, and employing with each band of progressively higher frequency range a progressively higher intermediate frequency.

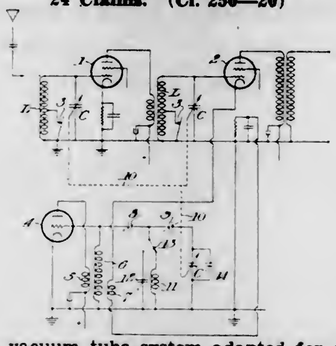
1,943,789
RADIORECEIVER
Paul O. Farnham and Henry F. Argento, Boonton, N. J., assignors to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a corporation of New Jersey
Application May 28, 1932. Serial No. 614,249
17 Claims. (Cl. 178—44)

3. In a transmission system the combination with two tuned circuits each including adjustable resistance, and magnetic coupling between said circuits, of means for simultaneously adjusting



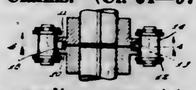
the coupling between said circuits and the effective magnitudes of the said resistances.

1,943,790
TUNED OSCILLATORY CIRCUITS
Christopher J. Franks, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a corporation of New Jersey
Application December 28, 1931
Serial No. 583,491
24 Claims. (Cl. 250—20)



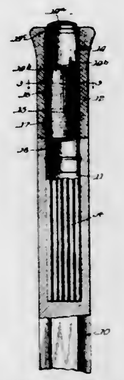
1. A vacuum tube system adapted for operation in more than one band of frequencies, comprising a vacuum tube, a first reactive circuit element of one sign connected to said tube, a relatively fixed and a variable reactive circuit element both of opposite sign to said first reactive circuit element and means for alternatively completing for said vacuum tube either a periodic output circuit including said first circuit element and said variable circuit element or a periodic output circuit including said variable circuit element and having an inductance and a capacitance which differ from the corresponding values of said periodic circuit for any given position of said variable cirucit element.

1,943,791
FLEXIBLE COUPLING
Oliver Herbert Gallamore, Indianapolis, Ind., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind., a corporation of Indiana
Application December 19, 1930
Serial No. 503,411
9 Claims. (Cl. 64—97)



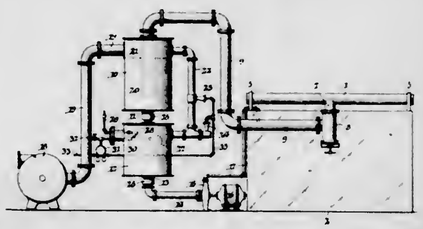
1. A flexible coupling, comprising two rotatable coupling members, each of said coupling members having an annular series of teeth, a chain encircling said members and provided with transverse parts adapted to be received in the spaces between said teeth to drive one member from the other, and a split spring ring located within said chain, said ring acting on said chain at angularly spaced points and tending to hold said chain in circular form.

1,943,792
PENCIL ERASER
Kenneth A. Garvey, Chicago, Ill., assignor to The Wahl Company, Chicago, Ill., a corporation of Delaware
Application May 4, 1932. Serial No. 609,100
13 Claims. (Cl. 120—38)



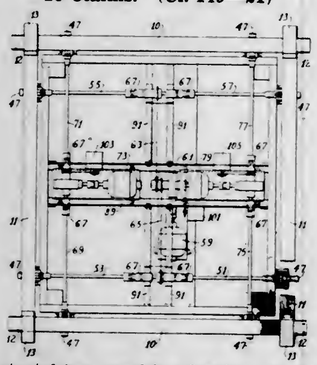
7. A device of the class described comprising the combination with a holder, of a head member adapted to be attached thereto in either of reverse positions, an eraser shiftable longitudinally in said head member, and means on the holder for effecting longitudinal shifting movement of the eraser in the head member incident to the attaching of the head member to the holder.

1,943,793
MOISTURE EXTRACTION APPARATUS
Henry L. Galson, Philadelphia, Pa., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 25, 1931. Serial No. 518,143
4 Claims. (Cl. 34—48)



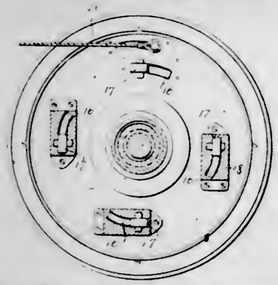
1. Apparatus for extracting surplus moisture from saturated fabric in readiness for drying and conditioning comprising, an apertured vacuum pipe over which the fabric is progressed, a connected liquid and gas separator tank for the extracted moisture, an associated accumulator tank for the separated liquid, a pipe connection intermediate the tanks aforesaid having pressure-equalizing and pressure-relief valves, pump means to maintain a vacuum throughout the apparatus, and float-actuated means governing said valves to cause automatic return of liquid from the accumulator to the source of saturation under atmospheric pressure when said liquid attains a predetermined level.

1,943,794
STRETCHING MACHINE
Roger L. Griffin and James T. O'Neil, Peabody, Mass., assignors to A. C. Lawrence Leather Company, Boston, Mass., a corporation of Maine
Application March 12, 1931. Serial No. 521,931
16 Claims. (Cl. 149—21)



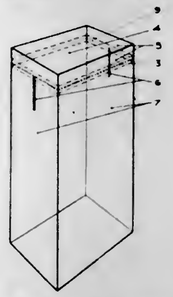
1. A stretching machine having, in combination, a pair of threaded shafts angularly disposed with relation to one another and to the plane of the work, a pair of movable stretching members having threaded connections with the shafts adjacent the plane of the work, and power actuated means spaced from the plane of the work for rotating said shafts to actuate the stretching members.

1,943,795
MULTIPLE DISK BRAKE
William R. Harman, Macksville, Kans.
Application April 21, 1931. Serial No. 531,820
1 Claim. (Cl. 188—72)



A disk brake for the wheel of a vehicle and in combination with a shaft housing and the wheel hub, a plate fastened to the housing at the end of the housing and having a centrally located opening therein and an outwardly extending flange thereon surrounding the opening, said flange forming a continuation of the housing and the inner end of the hub fitting in the flange means for forming an oil tight joint between said inner end of the hub and said flange, said hub having a tubular part circumferentially spaced from the inner portion of said hub with the inner end of said tubular part surrounding the flange, a series of ring shaped disks slidably but not rotatably connected to the exterior portion of said tubular part, an annular member of angle shape in cross section connected to the outer portion of the plate and engaging an intermediate portion of the hub and forming with the plate a casing in which the tubular part of the hub and the disks carried thereby are arranged, a second series of disks in the casing and alternating with the first series, a cam plate located in the casing adjacent the first mentioned plate, said first mentioned plate having openings therein, rollers carried by the first mentioned plate and passing through the openings therein and engaging the cams on the cam plate, means for imparting a rotary movement to the cam plate to cause the cams thereon to engage the rollers for moving the cam plate against the inner disk of the second series to cause the disks to engage each other, and small housings on the exterior part of the casing and enclosing the rollers.

1,943,796
OPENING AND CLOSING MEANS FOR CARTON BOXES
Carl Wilhelm Hartmann, Lyngby by Copenhagen, Denmark
Application April 27, 1931, Serial No. 533,311, and in Denmark May 2, 1930
1 Claim. (Cl. 229—51)



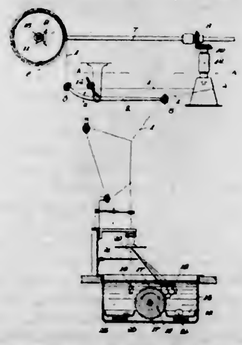
In cartons of the kind referred to, a carton body having a weakened portion enabling the carton to be separated into main and lid parts along the line of the weakened portion, yielding means permitting the main part to be deformed in the vicinity of the weakened portion, a loose inner lining fitted in said body, said lining having only that portion thereof overlying the weakened portion of the body locally pasted directly to said weakened portion, whereby incident to the separation of the body, the lining is broken along the weakened portion.

1,943,797
PROCESS OF VULCANIZING RUBBER
Joseph R. Ingram, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a corporation of Ohio
No Drawing. Application March 23, 1931
Serial No. 524,770
7 Claims. (Cl. 18—53)

1. The process of retarding the vulcanization of rubber which comprises heating a mixture of rubber, sulfur, and an accelerator in the presence of a carboxyl substituted aromatic ketone.

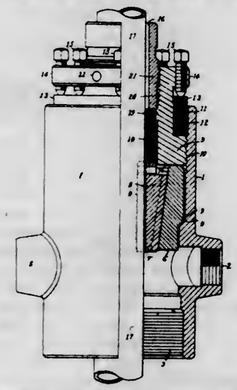
1,943,798
REELING MACHINE
Isoji Kowada, Kyoto-Fu, Japan
Application January 12, 1932. Serial No. 586,214
2 Claims. (Cl. 242—45)

1. In a reeling machine of the character described, a rotatably mounted spool about which a thread is wound, a conical revolving roller which has a rotating movement corresponding to the spool and about which the thread is passed prior to being wound on the spool, a rockably mounted lever about the ends of which the thread is guided prior to engaging the roller and being wound on the spool, the rocking lever being positioned between the conical revolving roller and the spool, a guide roller at the end of the lever adjacent the spool, the thread issuing from the conical roller



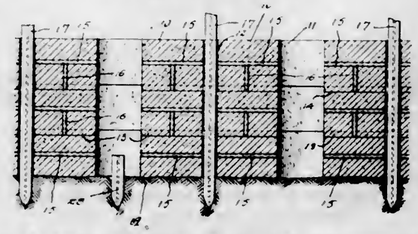
being passed about the guide roller prior to passing up to the spool thus causing the lever to rock in accordance with the increase or decrease of tension of the thread passing said guide roller, and automatically altering the winding position of the thread on the conical roller and thereby regulating the speed of the passage of the thread and giving a constant tension to the winding thread.

1,943,799
CASING HEAD
Joseph R. Mahan, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a corporation of Ohio
Application July 21, 1932. Serial No. 623,753
10 Claims. (Cl. 166—14)



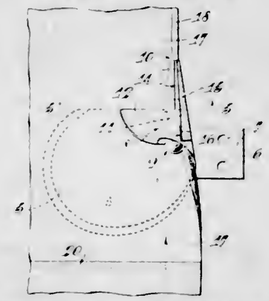
1. In a casing head, an annular body, a bowl with a downwardly-tapered interior wall seated therein, slips seated against the said interior wall, an adapter ring resting upon the bowl and secured to the casing head, a packing between the casing head and the adapter ring, a packing above the slips and between the adapter ring and a tubing in the casing head, and separate means attached to the adapter ring and adjustable therewith and effective for compressing the two packings.

1,943,800
SECTIONAL WALL AND METHOD OF ERECTING IT
George D. Morrison, Santa Barbara, Calif.
Application January 23, 1932. Serial No. 588,418
9 Claims. (Cl. 61—39)



5. A wall or structure of the character described, including a vertical series of blocks, vertical guide members at each end of the series of blocks, the blocks having guiding grooves engaging around the guide members, each of said blocks having a medially disposed vertical open-ended chamber, the chambers alining with each other when the blocks are in place to form a well, each of said blocks having longitudinally extending passages opening at their inner ends into said well and at their outer ends upon the end faces of the block, each block having vertical passages opening into the first-named passages and upon the lower face of the block.

1,943,801
HEMMER
Charles W. Mueller, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine
Application May 6, 1932. Serial No. 609,719
3 Claims. (Cl. 112—141)

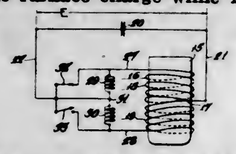


1. A hemmer including a coniform edge turning scroll having an entrant mouth and a restricted outlet nose, said nose being slitted to provide resilient segments capable of yielding to permit passage of cross-seams, and auxiliary spring means secured to said scroll and overlying and reinforcing said segments.

1,943,802
ELECTRIC INDUCTION FURNACE
Edwin Fitch Northrup, Princeton, N. J., assignor to Ajax Electrothermic Corporation, Ajax Park, N. J., a corporation of New Jersey
Application March 18, 1930. Serial No. 436,847
32 Claims. (Cl. 13—27)

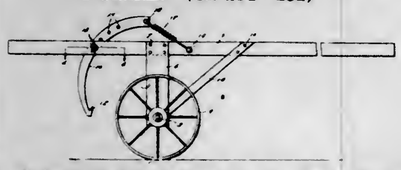
1. The method of controlling the stirring in an induction furnace which consists in passing current from top and bottom respectively toward

the middle in opposite directions about adjacent parts of the furnace charge while retaining an



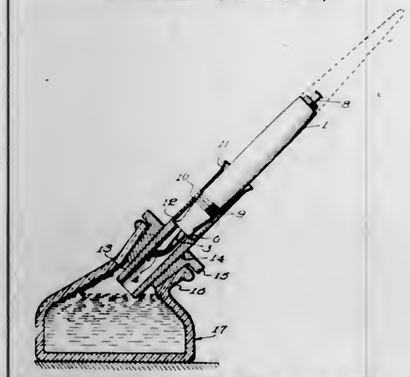
instantaneous uni-directional flux in the charge and varying the ratio of currents passed about the parts.

1,943,803
FORM PULLER
Charles E. Rarick, Weedsport, N. Y.
Application December 15, 1931
Serial No. 581,214
4 Claims. (Cl. 254—131)



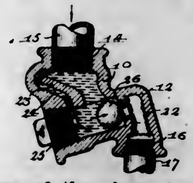
1. A form puller of the class described including an elongated beam, a standard depending from an intermediate portion of said beam, an axle on the lower portion of said standard, a wheel journalled on said axle, an elongated curved shank having a plurality of openings, a bolt extending through said beam and one of the openings in said shank, the lower end of said shank having a hook formed thereon, a spring engaged with the upper end of said shank and anchored on said beam.

1,943,804
FOUNTAIN PEN FILLER
Eugene A. Rummler, Winnetka, Ill.
Application February 23, 1931. Serial No. 517,647
5 Claims. (Cl. 120—4)



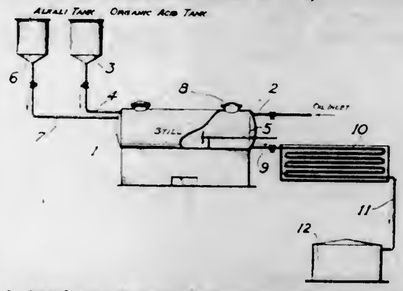
1. The combination of an ink receptacle, a closure therefor having an aperture therethrough and a fountain pen fitted within said aperture, said aperture having a substantially flat internal annular shoulder engaging the end of the fountain pen barrel and an internally threaded portion adapted to engage said fountain pen to hold it firmly against said shoulder, said closure comprising a tubular extension projecting outwardly beyond the threaded portion of said aperture and arranged to receive and support the body of said pen without threaded engagement of said pen and threaded portion.

1,943,805
VALVE
James C. Barrie, Montreal, Quebec, Canada
Application March 8, 1932. Serial No. 597,580
3 Claims. (Cl. 251—121)



1. In a valve of the character described, an angular body having transversely offset inlet and outlet ports, the interior of the body defining an upper inlet chamber and a lower inclined valve chamber communicating with a restricted passage, a web in the upper inlet chamber defining a by-pass channel, and a movable valve in the inclined chamber adapted to automaticaly assume a closing position to obstruct the passage in the body when the pressure of fluid admitted therein attains a predetermined point.

1,943,806
MANUFACTURE OF SOAP-OIL COMPOSITIONS
Arman Edward Becker and Reginald G. Sloane, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application June 24, 1926. Serial No. 118,166
4 Claims. (Cl. 87—9)

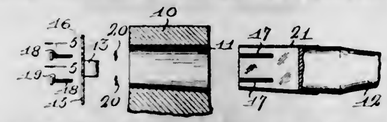


1. Method of manufacturing a liquid mineral lubricating oil composition containing not more than 5% of an alkali soap, comprising charging a receptacle with the oil, adding thereto a solution of the soap in a volatile solvent, agitating and heating until the solvent is removed, and rapidly cooling the composition through the temperature range in which gel formation would otherwise take place.

1,943,807
TOOL HANDLE
Joseph S. D. Bellerive, St.-Agathe-des-Monts, Quebec, Canada
Application November 21, 1932
Serial No. 643,549
1 Claim. (Cl. 306—34)

In a metallic handle for tools and the like, said handle being slitted at the tool receiving end,

the combination therewith of tool securing means comprising a plate having a longitudinal channel therein and a plurality of bolt holes, a wedge integral with said plate on the face opposite to that of the channel, said wedge entering the slit of the handle, square shouldered bolts passed through the holes of the plate and screwed into

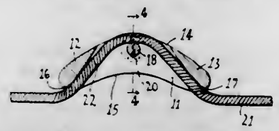


internally threaded bores formed axially of the slit, whereby to force the wedge into said slit, and resilient means associated with the bolts between the plate and the handle, whereby to prevent rotation of said bolts by constantly urging the plate into channel-engaging position with the shoulders of the bolts.

1,943,808
RUST PROOFING OIL
Lawrence G. Benton, Pompton Lakes, and Howard R. Tate, Elizabeth, N. J., and Edward R. Lewtas, Brooklyn, N. Y., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 17, 1929
Serial No. 414,818
4 Claims. (Cl. 87—9)

1. A non-staining and rust proofing liquid composition comprising mineral white oil, and naphthalene incorporated therein.

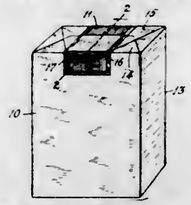
1,943,809
TAKE-UP DEVICE FOR STRANDED CABLES
Paul Bischof, New York, N. Y.
Application December 8, 1932. Serial No. 646,349
5 Claims. (Cl. 24—71.1)



1. A device of the class described comprising a pair of spaced-apart parallel arcuate walls having a slot passing therethrough, said slot being of greater length on one side of the device than on the other, said walls having aligned holes adjacent the shorter side of the slot communicating with said slot, a bolt insertable through said holes, said slot being adapted to receive the loop of a cable therein with the apex of the loop lying in the shorter of said slots, spacer members mounted between said walls on opposite ends thereof, said spacer members tapering toward the shorter side of said slot.

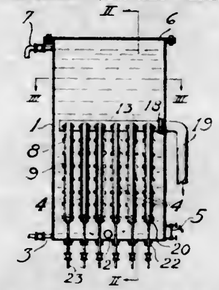
1,943,810
CIGARETTE PACKAGE
Richard Blum, Berlin, Germany
Application March 31, 1931. Serial No. 526,648
8 Claims. (Cl. 229—51)

1. A cigarette package comprising an inner wrapper and an outer casing, the upper portions of such wrapper being folded down over the contents of the package in direct contact therewith and with each other to completely cover the same, and the upper portions of the casing being folded down over the wrapper, and means connecting the folded-down portion of the casing with the separately folded-down portion of the wrapper in such a manner that upon pull on said means, both of said folded-down portions



are unfolded to expose the contents of the package to view, said unfolded portions being capable of re-folding to close the package again.

1,943,811
METHOD AND APPARATUS FOR FILTERING HYDROCARBON OILS
William C. Child, Roselle, and Gustav A. Beiswenger, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application June 17, 1930. Serial No. 461,714
2 Claims. (Cl. 210—181)

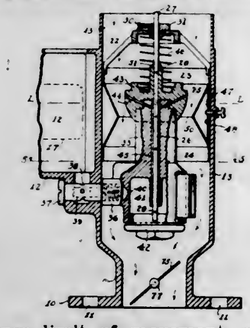


1. Apparatus for removing water from motor fuel comprising a housing, an inlet connection for admitting fuel to be treated thereinto, a valved drain connection for removing accumulations of water therefrom, a plurality of filter elements within said housing, each filter element comprising a frame, perforated plates on each side of said frame forming a chamber therebetween, separate valved drain connection at the lower part of each chamber to discharge liquid therefrom, filtering medium secured over said plates, said frame, perforated plates and filtering medium being suitably secured together to form unitary filter elements, a manifold, discharge connections between the upper part of each said frame and said manifold, support means within said casing for suitably supporting said filter elements therein, and suitable discharge means for removing liquid from said manifold.

1,943,812
CARBURETOR
Ernest F. Ciglia, Scarsdale, and Louis F. Pelletier, East Bronx, N. Y.
Application May 7, 1931. Serial No. 535,684
10 Claims. (Cl. 261—44)

1. In combination, a down-draft casing; a body disposed therein provided with a nozzle head, a passage below the head, and nozzle ducts extending from said passage substantially laterally from the head; a fuel supply for said passage; a tubular member in said head extending a distance into said passage and opening into the passage

and above the head; and a yieldable raised venturi having its smallest inner diameter disposed,

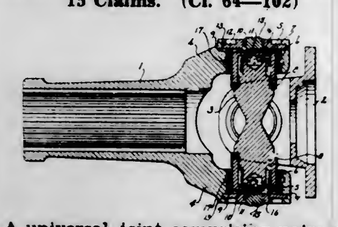


at its upper limit of movement, substantially around the nozzle ducts.

1,943,813
BRAKE FLUID
Charles W. Copeland, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
No Drawing. Application October 5, 1931
Serial No. 567,143
5 Claims. (Cl. 252—5)

1. Fluid for use in fluid pressure apparatus comprising ethyl lactate and an oil characterized by a low freezing point and a high boiling point.

1,943,814
UNIVERSAL JOINT
Charles D. Cutting, Detroit, Mich., assignor to Charles D. Cutting, Inc., Detroit, Mich., a corporation of Michigan
Application August 9, 1933. Serial No. 684,352
15 Claims. (Cl. 64—102)

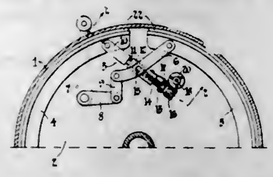


1. A universal joint comprising pairs of trunnions, a journal member for each of said trunnions, a freely rotatable bearing between each journal member and its trunnion, and universal means concentric with and individual to each of, said bearings to allow an amount of freedom of the axis of each of said trunnions with respect to its journal member, said universal means being also inherently resilient to provide cushioning of said trunnions in said journal member upon application of thrust.

1,943,815
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, St. Louis, Mo., assignor to Tretolite Company, Webster Groves, Mo., a corporation of Missouri
No Drawing. Application January 18, 1933
Serial No. 652,419
8 Claims. (Cl. 196—4)

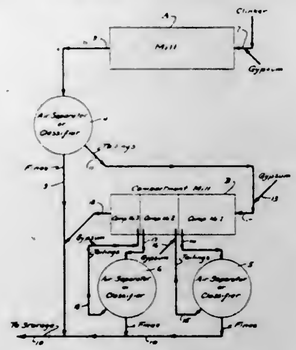
8. A process for breaking petroleum emulsions of the water-in-oil type, which consists in subjecting the emulsion to the action of a demulsifying agent containing the sodium salt of a sulfonic acid derived from tetradecyl alcohol.

1,943,816
AUTOMATIC ADJUSTING DEVICE FOR BRAKES
Walter H. Delahaye, Ottawa, Ontario, Canada, assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application August 14, 1931. Serial No. 557,022
3 Claims. (Cl. 188—79.5)



1. A brake comprising friction means having an applying toggle which includes a link having two members adjustably threaded together and one of which is held from turning, a ratchet having teeth and connected to the part which is free to turn, means yieldingly resisting the turning of the ratchet, and a yieldingly-mounted pawl plunger slidably mounted to engage the ratchet at the end of a predetermined applying movement of the toggle and to slip over the next tooth of the ratchet without turning the ratchet upon further applying movement of the toggle due to wear of the brake, said plunger acting upon the release of the brake to turn the ratchet by one tooth.

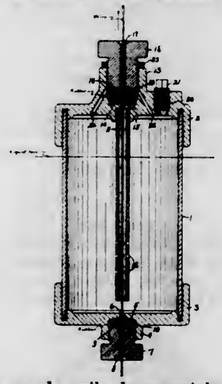
1,943,817
METHOD OF GRINDING PORTLAND CEMENT
Harold J. Dunton, San Andreas, Calif., assignor to Calaveras Cement Co., San Francisco, Calif., a corporation of California
Application June 9, 1931. Serial No. 543,149
4 Claims. (Cl. 106—25)



1. A method of grinding Portland cement material to special fineness which consists in passing cement clinker through a grinding mill, subjecting the material after grinding to a separating action to remove substantially all material which will pass a 400 mesh sieve, passing the tailings caught by the sieve through a second grinding mill, subjecting said tailings after passage through the mill to a second separating action to remove substantially all material which will pass a 400 mesh sieve and continuing the operation of grinding and separating until substantially all material has been ground to pass a 400 mesh sieve.

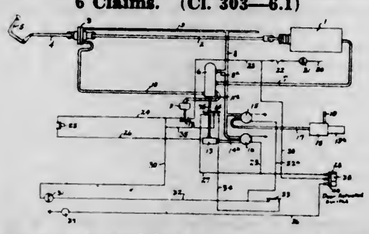
CARNEGIE LIBRARY OF ATLANTA

1,943,818
APPARATUS FOR COATING WIRE
Charles B. Fantone, Lyndhurst, and Reuben M. Jameson, Teaneck, N. J., assignors to Syncro Machine Company, Arlington, N. J., a corporation of New Jersey
Application August 12, 1932. Serial No. 628,536
3 Claims. (Cl. 91—32)



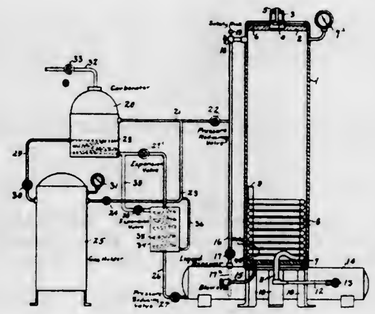
1. A device as described comprising a container having closed end walls, said end walls having passages therethrough terminating in enlarged recesses having conical end walls, screw plugs threadedly engaging said recesses and having conical end walls adjacent the conical end walls of the recesses, said screw plugs having passages therethrough, and apertured rubber wipers lying between the conical end walls of the recesses and the conical end walls of the screw plugs, the end wall of one recess being convex and the end wall of the plug for that recess being concave so that the wiper therefor may be deformed whereby its central passage assumes a conical shape.

1,943,819
INTERCONNECTED BRAKE AND DOOR SYSTEM FOR VEHICLES
Paris R. Forman, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a corporation of West Virginia
Application March 19, 1931. Serial No. 523,715
6 Claims. (Cl. 303—6.1)



1. In a door and brake operating system for vehicles, the combination comprising brake operating means, pedal actuated means for controlling the operation of the brake operating means, connections between both of said means including a valve and switch actuating means, door operating means, connections between the door actuating means and said valve including electromagnet valves, means for actuating said valve and a switch also actuated thereby and circuits including both of said switches and said electromagnet valves, said first switch being closed to partially complete the circuit to said magnet valves upon the movement of said pedal actuated means and one of said electromagnets being actuated to cause said means for actuating said valve and switch to operate to further complete the circuit to the other electromagnet valve.

1,943,820
SOLID CARBON DIOXIDE CONVERTER
Justus C. Goosmann, Mount Vernon, N. Y., assignor to American Dryice Corporation, New York, N. Y., a corporation of New York
Application April 15, 1931. Serial No. 530,202
17 Claims. (Cl. 62—91.5)



4. In a converter of the type described the combination comprising a closed tank into which solid carbon dioxide is to be charged, a liquid receiver, a condenser within said tank and connections between the condenser and the liquid receiver.

1,943,821
PREROASTING OF HYDROGEN PRODUCTION CATALYSTS
William V. Hanks, Baton Rouge, La., and George H. Freyermuth, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application May 5, 1931
Serial No. 535,306
10 Claims. (Cl. 23—233)

1. An improved method for preparing catalyst for the production of hydrogen from hydrocarbon vapor and steam at elevated temperatures comprising the steps of first preparing a paste containing heat decomposable compounds of a metal or metals of the iron group, admixed with activators; second, heating this paste to remove uncombined water; third, bringing the dried paste to a temperature of 1,600° to 1,900° F. while continuously passing over it a flushing gas free from catalyst poisons and maintaining the catalytic material at this temperature for an extended period of time.

1,943,822
METHOD AND APPARATUS FOR COUNTER-CURRENT WASHING
Paul J. Harrington, Elizabeth, N. J., assignor to Standard Oil Development Company
Application October 20, 1930. Serial No. 489,863
9 Claims. (Cl. 210—49)

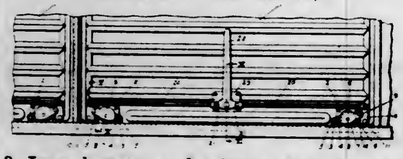
1. Counter-current apparatus which comprises a shell, substantially horizontally disposed perforated plates dividing the shell vertically into sec-

tions, and a drain pipe extending from each plate for a substantial distance toward an adjoining



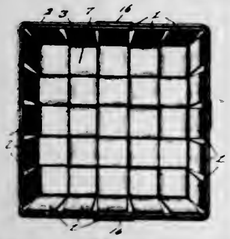
plate, the uppermost and lowermost sections having inlets and outlets.

1,943,823
LIFT AND THROWOUT DOOR MECHANISM
Frederick C. Heinen, Chicago, Ill., assignor to Camel Company, Chicago, Ill., a corporation of Illinois
Application March 9, 1931. Serial No. 521,214
15 Claims. (Cl. 16—99)



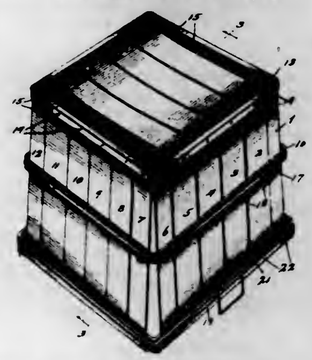
2. In a house car having a door supporting track, a door adapted to be supported upon said track, roller housings pivoted to said door, rollers journalled in said housings, levers pivoted to said housings for actuating the same for elevating said door, and door throwout members connected to said levers and operable between said door and track for moving the door outwardly when said door is elevated.

1,943,824
RECTANGULAR BASKET
Leslie M. Hile, Benton Harbor, Mich.
Application July 21, 1930. Serial No. 469,542
8 Claims. (Cl. 217—122)



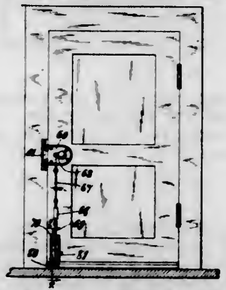
1. A rectangular basket comprising four outwardly inclined side walls composed of staves each having integral end and intermediate portions of uniform width between its ends, extending integrally from the top of the basket down one side thereof and across the bottom and up the opposite side to said top, for each of the four flat sides of the basket, with the staves interwoven in the bottom to form a square mat that will rest directly on the floor, whereby the staves are in two groups forming across with arms of equal width and length, said staves being bent where the four flat sides join the rectangular bottom of the basket, each side wall being flat from top to bottom thereof, and the top of the basket being larger than the bottom thereof, whereby baskets of this kind are adapted to nest together for shipment or storage, each stave being separate from the others from end to end thereof, and the intermediate portions of the staves being arranged to form the rectangular bottom of the basket, in combination with means applied after the bending of the staves into basket form to maintain the basket formation.

1,943,825
RECTANGULAR BASKET
Leslie M. Hile, Benton Harbor, Mich.
Application July 25, 1930. Serial No. 470,562
9 Claims. (Cl. 217—123)



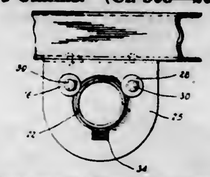
1. The construction of a downwardly tapered square basket having its four sides of equal area and free from curvature strain, comprising a plurality of parallel staves in one group, a plurality of parallel staves in another group, with one group crossing the other at the center thereof, with some intermediate portions of the first group extending over some intermediate portions of the second group, and with some intermediate portions of the second group extending over some intermediate portions of the first group, thereby forming a rectangular panel-like two-ply bottom for the basket, the major portion of the lower surface of said bottom being formed unbrokenly by staves of the first group, and the major portion of the upper surface of said bottom being formed unbrokenly by staves of the second group, a rectangular row of staples around the margin of the rectangular bottom, thereby to permanently fasten the two groups of staves together, with the ends of said groups of uniform length, while maintaining the staves of each group parallel and closely adjacent to each other, at their edges, in the portions ultimately forming the side walls of the basket, with said ends bent upward into outwardly inclined positions, forming tapered spaces between the adjacent edges of the four sides, and substantially rectangular hoops fastened to the downwardly-tapered square basket thus formed, free from curvature strain, whereby one basket thus constructed has four predetermined nesting positions in another basket of the same kind.

1,943,826
LOCK
John Holtzman, New York, N. Y.
Original application March 12, 1925, Serial No. 14,980. Divided and this application December 24, 1930. Serial No. 504,515½
6 Claims. (Cl. 70—14)



2. The combination of a door lock having a rocking member which is caused to rock when said door is locked or unlocked, a bracket fixed upon the door adjacent its lower edge, a shoe pivoted on said bracket and having a curved surface adapted to grip the floor surface over which the door swings, said curved shoe surface being disposed eccentric to the axis on which said shoe pivots so that the frictional pressure of said shoe against the floor surface will be increased by pressure acting against the door, and a flexible adjustable element for connecting said rocking member with said shoe and key operated means operable from outside the door for controlling the movement of said shoe, said latter means permitting said shoe to lock upon the surface of the floor in any position of radial movement of the door, and rolling means connected with the door for directing the major portion of said flexible element to lie close to the door.

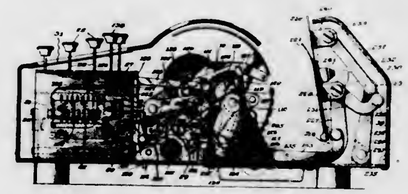
1,943,827
SHAFT MOUNTING
Bryan E. House, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application January 25, 1929. Serial No. 335,117
5 Claims. (Cl. 308—202)



1. Operating mechanism comprising, in combination, a shaft, a bracket having an opening encircling the shaft, anti-friction means carried by the bracket and engaging the shaft and permitting it to turn freely about its axis, and means including a leaf spring supported by the bracket for yieldingly urging the shaft against the anti-friction means.

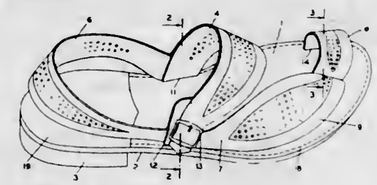
1,943,828
CHECK WRITER
James F. Koca and Otto A. Hokanson, Woodstock Ill.
Application February 3, 1928. Serial No. 251,478
39 Claims. (Cl. 101—19)

1. A check writer comprising, in combination, actuating mechanism, key controlled type carrying members movable into selected printing position by said mechanism, grooved type on said members, a substantially flat platen having a support comprising elements arranged to impart par-



allel motion to said platen, said platen being movable by said mechanism toward said type and being adapted to carry the material on which the printing is to be made.

1,943,829
SANDAL
Harry Koomruian, New York, N. Y.
Application April 3, 1933. Serial No. 664,074
2 Claims. (Cl. 36—11.5)

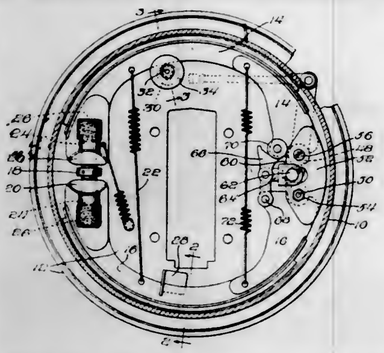


1. A sandal comprising a top sole having a slit adjacent the inner peripheral edge of the toe portion and slits adjacent the inner and outer peripheral edges of the arch portion, a bottom sole, an instep strap having its ends extending through the slits in the arch portion of said top sole and turned outwardly toward the peripheral edge of said soles, a toe strap having one end secured to said instep strap and the other end extending through the slit in the toe portion of said top sole and turned outwardly toward the peripheral edge of said soles, said toe strap being formed into a loop and having said loop secured to said top sole to provide separate toe engaging compartments, and stitches securing the peripheral edges of said top and bottom soles together and securing the ends of said straps between said soles.

1,943,830
BRAKE
Ludger E. La Brie, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application April 2, 1928. Serial No. 266,505
13 Claims. (Cl. 188—78)

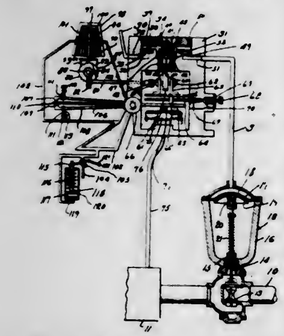
1. A brake comprising, in combination, a drum, a shiftable-anchorage floating friction device having movable ends, a lever acting on said ends, means for first moving the lever to move at least one of said ends against the drum and for then rocking the lever angularly to force said ends in opposite directions to complete the application of the brake, and return spring means urging said ends toward each other and

strong enough to hold both of said ends in anchored position during the first movement of



the lever and then yielding to permit the spreading of said ends by the rocking of said lever.

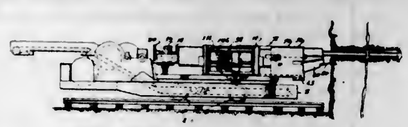
1,943,831
AUTOMATIC TEMPERATURE OR PRESSURE CONTROLLER
Arthur J. Mansure, Detroit, Mich., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application November 23, 1929
Serial No. 409,349
14 Claims. (Cl. 236—86)



14. In combination, a main control for regulating the flow of a fluid to a point of use, an auxiliary control controlling the actuation of said main control, a member movable in response to demands for the fluid, means for actuating said auxiliary control by said member, and means operable upon predetermined changes in the demand for the fluid to vary the effective actuation of said auxiliary control incident to any predetermined movement of said member.

1,943,832
MINING MACHINE
William T. McCullough, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application May 24, 1930, Serial No. 455,218
Renewed February 27, 1933
32 Claims. (Cl. 262—28)

1. In a mining machine, a truck, a turntable thereon, said turntable having a discharge opening centrally thereof, a cutting element mounted on said turntable and having a kerf cutting chain carrying cutter bar projecting forwardly there-



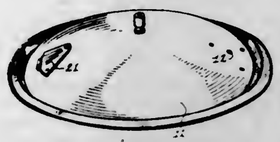
from, and means adjacent the rearward end of said cutter bar for collecting the cuttings and discharging said cuttings through said central discharge opening in said turntable.

1,943,833
AUTOMOBILE SIGNAL
Patrick J. McManaman, Cleveland, Ohio
Application November 3, 1931. Serial No. 572,779
1 Claim. (Cl. 240—8.3)



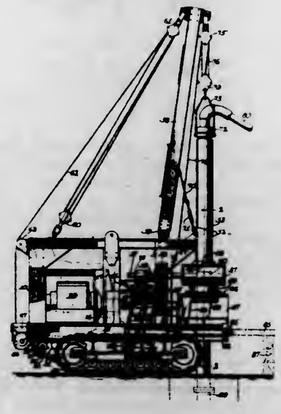
A combined backing and tail light comprising a casing having an opening and a single clear lens covering the opening, a partition extending across the casing and forming upper and lower chambers behind the clear lens, a lamp in each chamber, supported by the partition, and an inner semi-circular colored light concentrating lens between the lower lamp and the clear lens, said inner lens having its flat edge adjacent the partition and having the same shape as the opening for the lower chamber, with the lower curved edge held in position by the edge of the clear lens, so as to close said chamber and form a tail light.

1,943,834
SIGNAL FOR BOILERS
Antonio J. Meneghetti, Montreal, Quebec, Canada
Application March 29, 1933. Serial No. 663,254
1 Claim. (Cl. 116—70)



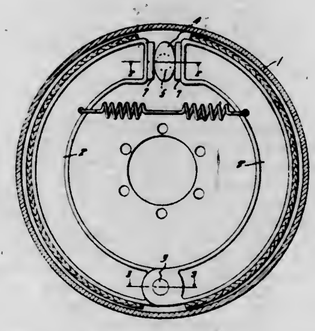
The combination with a boiler cover having a plurality of apertures therein, of a movable cover plate secured on the boiler cover adapted to normally close one of the apertures in the cover and movable to open the said aperture, an arcuately bulging member fitted against the inner side of the cover, the said arcuately bulging member being provided with a central opening disposed to assume a position opposite another aperture in the cover, and a resilient member adapted to engage projections on the boiler cover for removably securing the bulging member against the said boiler cover.

1,943,835
DRILLING APPARATUS
William J. Newman, Chicago, Ill.
Application November 7, 1930. Serial No. 494,077
5 Claims. (Cl. 255—19)



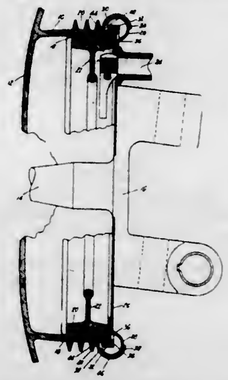
1. In a drilling apparatus, the combination of a housing, means for supporting the housing, a driving sleeve mounted in said housing and having notches in the end thereof, means for turning said sleeve, a driving ring having lugs adapted to engage with said notches and having keyways therein, a pipe slidably mounted in said ring, splines on the pipe engaging with the keyways in said ring, drill pipes adapted to be connected with a drill head, and means for connecting said pipes to the first mentioned pipe.

1,943,836
BRAKE OPERATOR
Raymond J. Norton, Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Original application May 28, 1930, Serial No. 456,665. Divided and this application January 22, 1931. Serial No. 510,519
1 Claim. (Cl. 188—78)



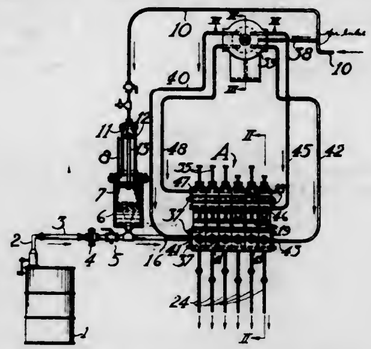
A brake pivot pin having a chromium plated sleeve.

1,943,837
BRAKE DRUM CLOSURE
Henri Perrot, Paris, France, assignor, by mesne assignments, to Bendix Aviation Corporation, Chicago, Ill., a corporation of Delaware
Application May 25, 1927, Serial No. 194,228, and in France June 14, 1926
6 Claims. (Cl. 188—218)



1. Brake mechanism comprising a brake drum and, in combination therewith, a backing plate formed to provide a joint with both the inside and outside surfaces of the drum.

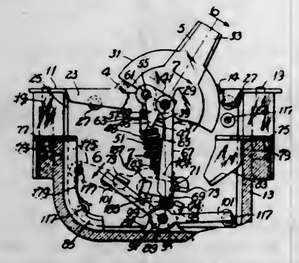
1,943,838
GREASE DISTRIBUTING SYSTEM
Maurice Reswick, Pittsburgh, Pa., assignor to Pennsylvania Lubricating Company, a corporation of Delaware
Application August 8, 1931. Serial No. 555,983
5 Claims. (Cl. 184—7)



1. In a lubricant distributing system, a measuring pump including a valve cylinder having longitudinally spaced inlet and outlet passages and a bore intermediate said passages, a plunger reciprocable in the bore, a piston cylinder, a unitary plunger and piston reciprocable in the bore and piston cylinder respectively, a valve member reciprocably mounted in the valve cylinder and having a groove of a length less than the distance between said passages, said groove alternately establishing communication between the bore and inlet passage in one position of the valve and between the bore and the outlet passage in the

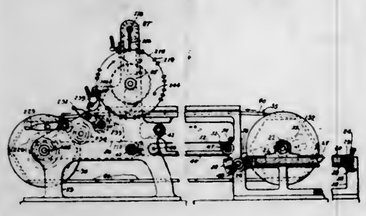
other position of the valve, means for supplying lubricant under pressure to the inlet passage, a source of fluid under high pressure, fluid conduit lines leading from the source to opposite ends of the valve and piston cylinders, and a valve for directing the fluid under high pressure alternately through the lines leading to the cylinder to reciprocate the valve member whereby the inlet passage and outlet passage are successively opened and closed, and for directing the fluid under high pressure alternately through the lines leading to the piston cylinder to reciprocate the piston to draw in a charge of lubricant through the open inlet passage and eject the charge through the open outlet passage.

1,943,839
SWITCH
Marcus H. Rhodes, New Haven, and John Fanzoi, Hartford, Conn., assignors to M. H. Rhodes, Inc., New Haven, Conn., a corporation of Delaware
Application February 14, 1931. Serial No. 515,728
11 Claims. (Cl. 200—39)



1. A time delay switch comprising a control handle, an electrical switch, and a time delay mechanism, said time delay mechanism being adapted selectively to control the time of making connections after said control handle has been thrown to connecting position, or the time of breaking connections after said control handle has been thrown to disconnecting position.

1,943,840
BOX MAKING MACHINE
Frederick R. Row, Toronto, Ontario, Canada
Application February 20, 1932. Serial No. 594,257
37 Claims. (Cl. 1—8.2)



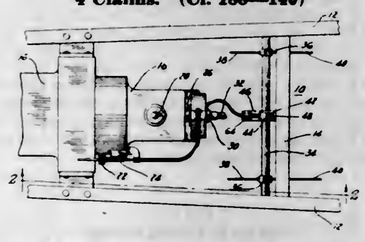
1. In combination, means for positioning and conveying container parts; a stapling unit over the path of said parts and comprising a valve-controlled, piston actuated means, and a staple driving mechanism actuated by the actuating means; and means for actuating said valve at predetermined intervals for actuating the actuating means.

1,943,841
BRAKE
Roy S. Sanford, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application September 25, 1930
Serial No. 484,337
4 Claims. (Cl. 188—18)



1. A chassis having a frame and front wheels and at least two wheels having brakes at each side at its rear, in combination with operating means for the brakes including on each side of the chassis a flexible conduit attached to the frame at its forward end and secured adjacent one of the brakes at its rear end, and a brake-operating flexible medium arranged in said conduit and attached to at least two of the brakes on the same side.

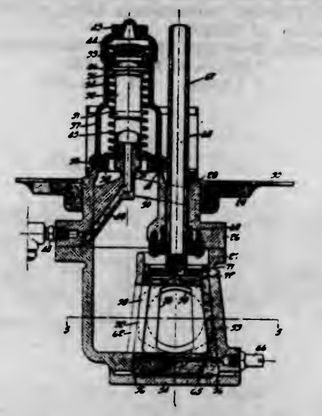
1,943,842
BRAKE
Roy S. Sanford, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 21, 1931
Serial No. 563,922
4 Claims. (Cl. 188—140)



1. A brake mechanism for an automotive vehicle comprising a transmission brake, a rock shaft, brake control elements connected to the rock shaft, means for actuating the transmission brake and means for anchoring the friction element of the transmission brake and also operable to rock the shaft, said latter means comprising a slotted bracket secured to the chassis of the vehicle and further comprising cable and conduit members operably connected to and mounted within said slotted member, one of said members being also operatively connected to said rock shaft.

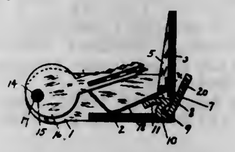
1,943,843
DISPENSING APPARATUS
Reginald C. Shand, Piedmont, Calif.
Application April 27, 1931. Serial No. 533,192
6 Claims. (Cl. 137—21)

1. In apparatus of the character described, a hollow body formed of separable upper and lower parts, the upper part being adapted to be secured to a wall of a tank and the lower part being adapted to be positioned outside the tank, valve means mounted upon the upper body part and adapted to be disposed within the tank, a plurality of conduits communicating with the lower body part exteriorally of the tank, a distributing valve mounted within the lower body part and adapted to control flow of liquid from the body thru said conduits, and a rotatable operating member having a driving connection with said distributing valve, whereby said lower body



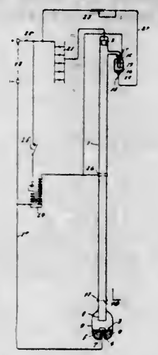
part can be removed from the upper body part, together with said distributing valve.

1,943,844
KEY CONTAINER
Leo Slotnick, Brooklyn, N. Y.
Application January 20, 1933. Serial No. 652,616
3 Claims. (Cl. 59—96)



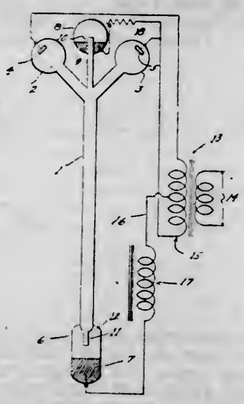
1. A key container comprising spaced parallelly arranged side plates, a rear wall connecting and bridging said side plates at one of the longitudinal edges thereof, means for mounting keys consisting of a separable horizontal support located transversely of said side plates and carried by the latter, a top cover pivotally mounted at the end of said plates opposite to that where said support is located and opposite said rear wall, having a tail portion extending rearwardly beyond its pivot, an end cover also pivotally mounted on said plates at a position adjacent to said top cover, said end cover having a cam surface extending inwardly of the container beyond its pivot, a spring secured adjacent the first mentioned pivot and extending toward the inner surface of the rear wall, passing contact with said cam surface and of such configuration as to stress the first mentioned cover toward opening position and as to stress at the same time any keys in said holder to an angular position above the height of and relative to said plates, and as to cam said end cover into closing position when said top cover is lowered under tension to its closing position while bearing at the same time against the bottom edges of said keys, said top cover being maintained in closed position by an upper portion of said end cover resting immediately underneath said tail portion of said top cover, and means for manually withdrawing one cover from the other while so closed to permit the top cover to fly back to opened position.

1,943,845
ELECTRICAL DISCHARGE DEVICE
Charles Spaeth, Flushing, N. Y.
Application August 20, 1929. Serial No. 387,103
8 Claims. (Cl. 176—122)



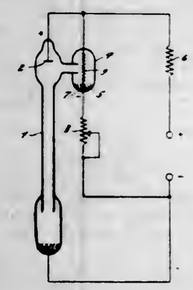
1. In an electric discharge device, an electrode structure comprising a chamber having an outlet opening therein, a tube projecting within said opening and sealed to the chamber at the edge thereof, a quantity of alkali metal in said chamber, a lead-in wire of tungsten sealed through the walls of the envelope, and a piece of nickel welded to the end of the wire and supported by said tungsten wire in such position to be in contact with the alkali metal bath when the alkali metal becomes liquid by heating.

1,943,846
ALTERNATING CURRENT ELECTRICAL DISCHARGE DEVICE
Charles Spaeth, Flushing, N. Y., assignor to Ne-Arga Corporation, New York, N. Y., a corporation of New York
Application March 7, 1930. Serial No. 433,967
7 Claims. (Cl. 176—122)



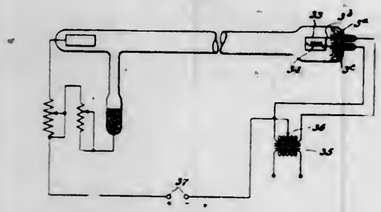
1. In an alternating current electrical discharge device, a gas filled envelope containing a pair of tungsten electrodes and an associated alkali metal electrode, means for applying a potential between said tungsten electrodes sufficient to heat them to incandescence and for causing a current to flow between said alkali electrode and said pair of electrodes.

1,943,847
ELECTRICAL DISCHARGE DEVICE
Charles Spaeth, Flushing, N. Y., assignor to Ne-Arga Corporation, Jersey City, N. J., a corporation of New York
Application October 23, 1930. Serial No. 490,646
2 Claims. (Cl. 176—125)



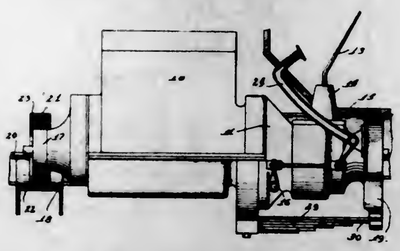
1. In an electric discharge device, a light transmitting envelope, a rare gas filling in said envelope, an anode and a cathode within said envelope, a reservoir containing mercury connected with said envelope near said anode, an auxiliary electrode immersed in said mercury, a filament within said reservoir and connected at one end with said auxiliary electrode, a source of current, a connection from the positive side of said source to said anode, a fixed resistance in said connection, a connection from the other side of said filament with said connection at a point between the anode and said resistance, and a variable resistance connected between said auxiliary electrode and the negative side of said source.

1,943,848
ELECTRICAL DISCHARGE DEVICE
Charles Spaeth, Flushing, N. Y., assignor to Ne-Arga Corporation, Jersey City, N. J., a corporation of New York
Application October 23, 1930. Serial No. 490,648
1 Claim. (Cl. 176—125)



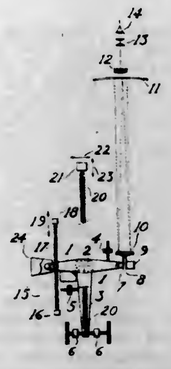
An electrical lamp comprising a container, a quantity of rare gas within said container, an anode at one end of the container and a heater type cathode within and at the other end of said container, a reservoir attached to said container for storing small quantities of mercury, means for vaporizing a quantity of said mercury to modify the color of the light radiated from said rare gas, and a deposit of alkali metal within said container electrically connected to said cathode but spaced therefrom to prevent vaporization by heat generated by the cathode and to remove mercury vapor from the light column.

1,943,849
ENGINE MOUNTING
Benjamin A. Swennes, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 26, 1931, Serial No. 583,315
Renewed June 5, 1933
5 Claims. (Cl. 180—64)



5. In combination with a power plant pivotally mounted to a frame about a longitudinal axis of the power plant, stabilizing means for controlling pivotal movements of the power plant relative to the frame, said stabilizing means being disposed substantially parallel to the axis about which the power plant is pivoted, and clutch operating means including a tie rod so arranged as to have a movement substantially similar in range to that of the stabilizing means whereby the stabilizer means and the tie rod will operate in parallel.

1,943,850
MAGNETOMETER
Orley H. Truman, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 22, 1929. Serial No. 334,339
14 Claims. (Cl. 175—183)



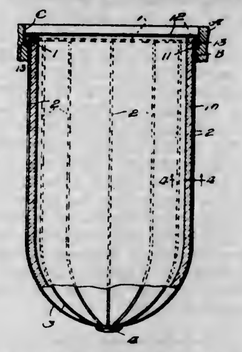
3. The combination, in a magnetometer, of a magnet or magnets mounted on an elastic support, means for adjusting the equilibrium position on this support, means for causing the equilibrium to be stable on both sides of this position, means for altering the restoring force so as to vary the period of vibration about this position, means for damping this vibration, a mirror elastically connected to the magnet or magnets so as to amplify the extent of angular motion, and means for reading the deflection of the mirror, substantially as described.

1,943,851
SAFETY FILLER PLUG
Kenneth W. Warren, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 18, 1932. Serial No. 599,893
1 Claim. (Cl. 267—64)



A pneumatic shock strut comprising a compressed gas chamber, a boss in the wall thereof having a threaded aperture, a feed valve plug threaded in said aperture, and comprising a threaded portion substantially the length of the chamber wall thickness, a shoulder terminating the threaded portion and adapted to coact with the exterior surface of the boss to form a seal when said plug is inserted in said aperture, an axial bore through said plug provided with a valve at the outer end, and a radial bore extending from said axial bore from a point inwardly of said valve to a point upon the threaded portion of said plug, a substantial distance from the inner end of the valve plug thereby leaving a sufficient threaded portion to retain the plug in the threaded boss against the high pressure of the gas chamber and permit escape of the air from the chamber upon partial unscrewing of the plug.

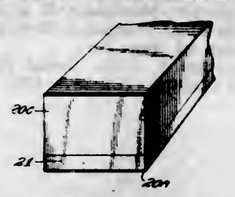
1,943,852
HOLDER AND INCLOSURE FOR LAMPS
Ernst G. K. Anderson, Evanston, Ill., assignor to Appleton Electric Company, a corporation of Illinois
Application November 12, 1932
Serial No. 642,419
12 Claims. (Cl. 240—11.2)



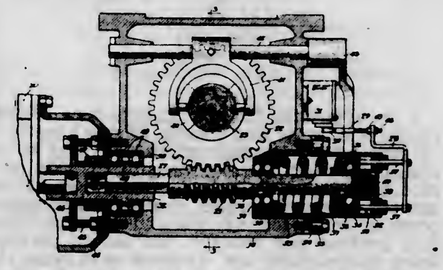
1. A globe closed at one end and open at the other end, reenforcing wires extending from the middle of the closed end to the open end, the wires being sunk at least partially into the glass.

1,943,853
BIPLATE METAL
Miner M. Austin, Waukegan, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a corporation of New York
Application October 21, 1930. Serial No. 492,496
4 Claims. (Cl. 29—181)

4. A bi-metal article of manufacture comprising a tantalum plate, a base metal film autogenously attached thereto and protecting said plate against the deleterious influences of the atmosphere, and a base metal plate autogenously attached to said film.

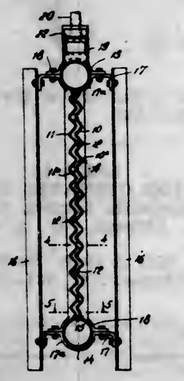


1,943,854
MOTOR OPERATED VALVE
Clinton H. Beckwith, Geneva, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 2, 1929. Serial No. 359,795
3 Claims. (Cl. 137—139)



1. In a power operated valve opening and closing mechanism, a reversely operable motor, a shaft driven thereby, a bearing supporting said shaft, a worm and worm wheel, the shaft of said worm being in line with said first mentioned shaft, one of said shafts having an angular end portion and the other a correspondingly shaped bore in which said end portion is slidably fitted, thereby providing a positive slip drive connection between said shaft and a support for the worm shaft at one side of the worm, a bearing for said worm shaft supporting the same at the other side of the worm, said worm shaft having a thrust shoulder to abut said worm shaft bearing, said worm shaft having an extension beyond said worm shaft bearing, a swiveled member carried by said extension, a coiled spring encircling said extension compressed between said swiveled member and a fixed frame member in which the worm shaft bearing is mounted, whereby the worm shaft is urged by the spring in a direction to cause said thrust shoulder to abut against said worm shaft bearing, a positive drive connection between said worm wheel and the valve, the motion of said mechanism to open the valve being in a direction to keep said thrust shoulder of the worm shaft against said worm shaft bearing, automatic means to control the valve opening operation of the motor, said means being controlled by an element of said mechanism between the worm and valve to shut off the power when the valve in its opening movement reaches a predetermined position short of backseating, and automatic means to control the valve closing operation of said mechanism, said last named means being operable by an axial displacement of said worm against the opposition of the spring as the result of a predetermined resistance to the closing movement of the valve.

1,943,855
HEAT EXCHANGE APPARATUS
Bernard M. Carter, Montclair, N. J., assignor to General Chemical Company, New York, N. Y., a corporation of New York
Application June 6, 1930. Serial No. 459,466
15 Claims. (Cl. 257—187)



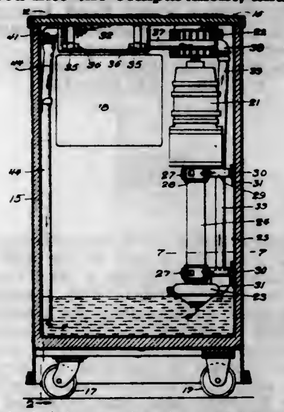
1. In apparatus for the manufacture of sulphuric acid or the like, a cooler having a restricted passageway through which the acid to be cooled is passed, the side walls of the said passage comprising similarly formed plates having angular, sharply formed convex and concave portions connected by short inclined portions, said inclined and concave and convex portions being so associated and arranged as to cause the acid within the passage to be projected successively across the passage from one side wall to the other and to limit linear travel of acid to a distance not substantially more than the thickness of the passageway, the angularity of the concave and convex portions being such that liquid flowing down over the outside of the wall surface adheres thereto and forms a substantially evenly distributed film over the entire outer surface of the side walls.

1,943,856
DENTAL PREPARATION
Roy Cross, Kansas City, Mo., assignor to Silica Products Company, Kansas City, Mo., a corporation of Delaware
No Drawing. Application July 10, 1929
Serial No. 377,330
5 Claims. (Cl. 167—93)

1. A dental cream comprising bentonite, magnesium oxide, sodium fluoride, camphor and benzoin.

1,943,857
PORTABLE COOLER
Augustus C. Durdin, 3d, Chicago, Ill., assignor to Chicago Pump Company, Chicago, Ill., a corporation of Illinois
Application May 14, 1932. Serial No. 611,386
17 Claims. (Cl. 62—131)

1. A cooler comprising in combination a cabinet having top, bottom and sides providing a compartment, a motor, blower and water pump assembly in said compartment supported by the walls thereof, a heat absorber supported by the top of the cabinet and connected to the water pump by a conduit, there being an opening to said compartment through which said motor, blower and water pump assembly and the heat absorber are introduced into the compartment, and there being an air inlet, opening to said blower and an air outlet, opening out from said heat absorber.



1,943,858
CELLULAR MATERIAL AND METHOD OF MANUFACTURING SAME
Arthur S. Dwight, Great Neck, N. Y., assignor to Dwight & Lloyd Sintering Company, Inc., New York, N. Y., a corporation of Delaware
Application January 10, 1931. Serial No. 507,901
2 Claims. (Cl. 91—70)

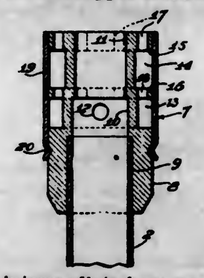


1. The method of coating the surfaces of cellular particles to seal the same which comprises coating the surfaces of the particles with a coating material having a melting point below that of the cellular particles, spreading the coated particles in a thin pervious layer on a pervious support, passing through a furnace chamber said support with said layer in a quiescent state thereon, passing hot gases directly through said support and said layer transverse to the planes thereof, the layer moving at such rate and being subjected to such temperature to cause the coating material to melt, flow over and fuse to the surfaces of the particles, and removing the particles from the furnace before appreciably melting the particles themselves, whereby a thin coating is applied to the surfaces of the particles without filling the interior voids.

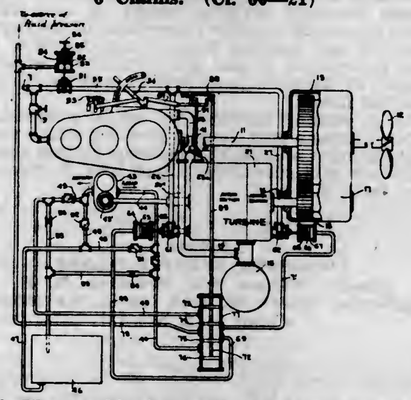
1,943,859
GAS BURNER
Edwin H. Fisher, Pittsburgh, Pa., assignor to Fisher Scientific Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 19, 1933. Serial No. 666,855
3 Claims. (Cl. 158—116)

1. A detachable adapter tip for a laboratory gas burner comprising a tubular member having its bore composed of lower, intermediate and upper portions of successively reduced diameter upwardly from the base of the tip, the diameters of said lower and intermediate portions being, respectively, substantially those of the exterior and interior diameters of the burner barrel to which

the tip is applied, an expansion chamber closed at its lower end surrounding said intermediate and upper portions, the lower end of the chamber being smaller than the upper end and being connected to said intermediate bore portion by perforations through the wall, and the top of said expansion chamber being provided with a top wall having a plurality of perforations surrounding said upper bore portion.



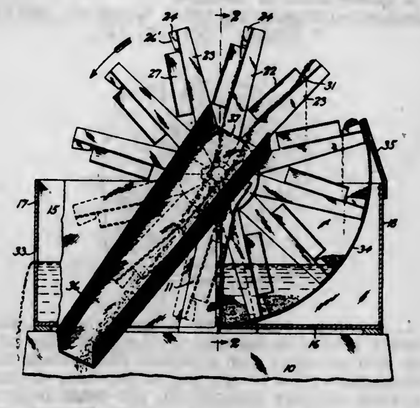
1,943,860
MARINE POWER PLANT
Warren B. Flanders, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application September 12, 1928
Serial No. 305,504
6 Claims. (Cl. 60—21)



1. The combination with a reciprocating engine having a reversing mechanism, a turbine having ahead and astern sections, and means for supplying steam exhausted from the reciprocating engine to the turbine, of means for supplying high-pressure steam to the ahead and astern sections and controlling means for the last-named means connected to said reversing mechanism, whereby, when the reversing mechanism is operated to change the direction of the reciprocating engine, high-pressure steam is admitted to one of the turbine sections to change the direction of the turbine, said controlling means being operative to shut off the admission of high pressure steam to the turbine in response to a pre-determined speed thereof.

1,943,861
SAND WASHING APPARATUS
Harry Adolph Friberg, Winchester, Mass.
Application June 18, 1931. Serial No. 545,207
4 Claims. (Cl. 209—461)

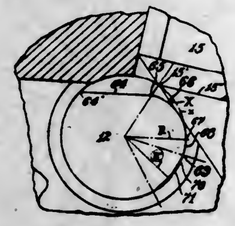
1. Sand washing apparatus comprising a wash box and a paddle wheel mounted on a horizontal axis and movable within said wash box, said paddle wheel comprising spokes, and chutes attached to said spokes and spaced from said paddles in both a radial and a peripheral direction, said chutes having triangular sides and radially inward bottoms disposed at an angle to the horizontal.



1,943,862
DIRECT-READING PITCHOMETER
Bert O. Godfrey, Brooklyn, N. Y.
Application March 13, 1931. Serial No. 522,217
12 Claims. (Cl. 33—174)

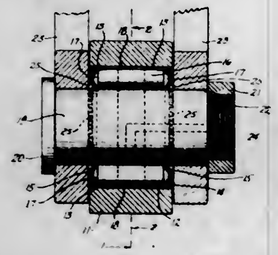
1. A means for determining propeller pitch comprising a plate ruled with two series of cross lines, the spacing of the lines of one series bearing the relationship to the spacing of the lines of the other that the circumference of a circle bears to its diameter, a zero point established at the intersection of two lines, one being selected from each of said series, an arm pivoted at the zero point and movable over the plate, and contact members supporting said plate, the angular position of which with relation to a base plane perpendicular to the propeller axis is determined by the disposition of the arm relative to the cross lines, said contact members being adapted for contact with a propeller blade and the arm being adapted to be simultaneously aligned with the axis of the propeller whereby the pitch thereof may be determined.

1,943,863
SAW SWAGE
Dewey E. Gemmel, Indianapolis, Ind., assignor to E. C. Atkins & Company, Indianapolis, Ind., a corporation of Indiana
Application March 16, 1933. Serial No. 661,021
6 Claims. (Cl. 76—54)



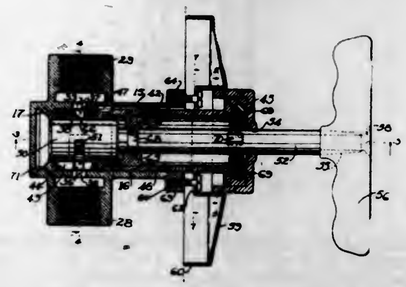
1. A swage comprising a main body transversely slotted to receive the toothed edge of a saw and provided with a pair of aligned bearings on opposite sides of the slot at the root thereof, an anvil slidably mounted in the main body at the root of the slot in the plane thereof, saw clamping means carried by the main body, and a die projected through the bearings and supported thereby across the body slot in opposition to the anvil, said die having circumferential contact with the bearings over an arc of substantially more than 180° and having, between its ends, in opposition to the anvil, a swaging-cam surface subtended to the rear by a circular swaging arc of full-radius and having an angular extent of several degrees but substantially less than the amplitude of swaging stroke, said full-radius surface being subtended toward the rear by a reduced-radius surface having an angular extent approximating the difference between the angle of full swaging stroke and the arc of full-radius swaging surface, the maximum radial reduction of said reduced-radius surface being less than the inherent spring-back of the saw tooth metal following the full effect of said full-radius swaging surface.

1,943,864
BEARING CONSTRUCTION
Lewis R. Heim, Danbury, Conn.
Application October 11, 1928. Serial No. 311,718
11 Claims. (Cl. 308—174)



1. In construction for anti-friction bearings, in combination, a device of sheet metal of general cylindrical form having inwardly directed stiffening flanges at each end which are bent toward each other, and a set of rolls having reduced ends inserted between said flanges and overlapped and held in position thereby at their ends.

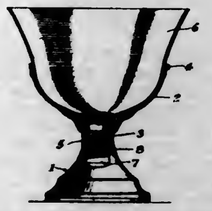
1,943,865
MIXING VALVE
Vincent D. Hennessey, Milwaukee, Wis.
Application April 2, 1928. Serial No. 266,547
19 Claims. (Cl. 251—4)



1. In a valve, the combination of a hollow body having a cylindrical interior from which extend a plurality of fluid-receiving inlet ports and a plurality of fluid-receiving discharge ports, and a piston movable within said cylindrical interior for independent rotation and axial displacement and having a single peripheral transfer passage registrable with said inlet ports and a selected discharge port, one of said movements of said piston effecting variable closure of said inlet ports to provide variable proportions of the fluids entering said transfer passage and the other of said movements of said piston effecting variable closure of the ports to control the volume of discharged fluid.

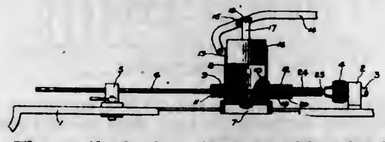
18. A packing member for valves comprising a core having a boss thereon provided with a port therethrough, and packing material molded about said core and surrounding said boss to form a seal about said port.

1,943,866
TWO-PART SERVICE GLASS
Edward William Holl, Brooklyn, N. Y.
Application March 30, 1933. Serial No. 663,485
1 Claim. (Cl. 65—13)



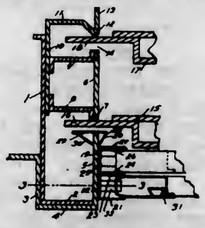
A two-part receptacle comprising a base member of relatively thin gauge metal formed of two approximately cone-shaped hollow parts, one of which parts has an externally and internally threaded reduced end which projects into and is permanently connected with the reduced hollow end of the other part to form an internally threaded contracted neck and the oppositely presented flared base and cup, in combination with a glass bowl having a convex lower surface fitting the flared cup of the base member and an integral threaded stem screwed into the threaded opening in the contracted neck of said base member, substantially set forth.

1,943,867
FLUX COATED WELDING ROD AND MEANS THEREFOR
Walter Reginald Hume, Melbourne, Victoria, Australia
Application April 20, 1931. Serial No. 531,505
4 Claims. (Cl. 219—8)



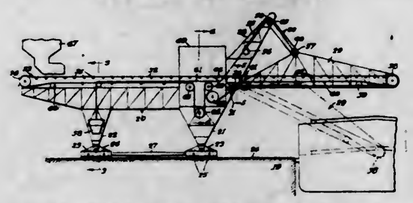
1. The method of coating a weld rod which consists in rotating the rod, extruding an annular body of flux coating material lengthwise onto the rod during such rotation, and simultaneously winding a combustible cord onto said flux coating.

1,943,868
SCREEN MOUNTING FOR METAL WINDOW FRAMES
Theodore Johnson, Erie, Pa., assignor to Johnson Metal Products Company, Erie, Pa., a corporation of Pennsylvania
Application January 15, 1932. Serial No. 586,873
20 Claims. (Cl. 156—14)



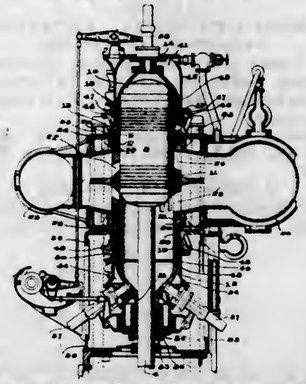
3. A screen mounting adapted for attachment to a metal window frame having a sash guide slot, said mounting comprising an attaching portion adapted to extend into the guide slot.

1,943,869
SHUTTLE CONVEYER
Myron A. Kendall, Aurora, Ill., assignor to Stephens-Adamson Manufacturing Company, a corporation of Illinois
Application October 31, 1931. Serial No. 572,287
2 Claims. (Cl. 198—109)



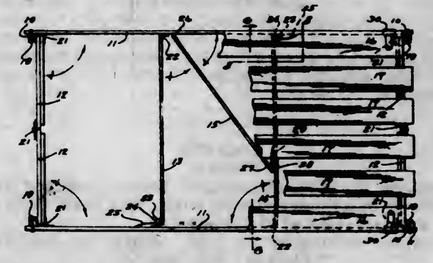
1. In a device of the class described, the combination of a horizontal frame having front and rear supports, a mast rising from the forward end of the frame, a boom pivoted to said forward end of the frame, means for raising and lowering the boom, and means for counterbalancing the boom including a vertical movable weight adjacent the rear end of the frame, and a cable extending between the weight and the boom and passing over the mast.

1,943,870
INTERNAL COMBUSTION ENGINE
Frank L. Klaiber, Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a corporation of Virginia
Application March 25, 1930. Serial No. 438,703
26 Claims. (Cl. 123—61)



11. In an internal combustion engine of the character described, a cylinder comprising an upper cylinder liner having an external peripheral flange, an intermediate cylinder section comprising an outer median shell portion having intake and exhaust ports formed entirely therein and provided with vertical liquid passages between said ports and having upper and lower externally extending peripheral shoulders, a lower cylinder section provided with a cylinder head and an upwardly extending cylinder shell having an exteriorly extending supporting flange in engagement on its upper side with said lower shoulder, an upper cylinder section provided with a cylinder head and downwardly extending cylinder shell positioned exteriorly of said upper cylinder liner and having an exteriorly extending flange in supported engagement with the upper side of the upper liner flange and presenting an upper side for hold-down clamping means, a liner in said lower cylinder section, said liners jointly extending throughout the working bore of said cylinder and being positioned in said sections free for longitudinal expansion with respect to said shells.

1,943,871
COLLAPSIBLE SCAFFOLDING
Carl E. Landberg, Minneapolis, Minn.
Application September 12, 1932
Serial No. 632,662
6 Claims. (Cl. 304—2)

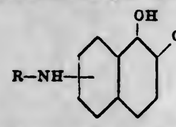


1. A collapsible scaffolding comprising leg posts, side bars rigidly secured to said leg posts, fold-

able crossbars connecting said side bars, a foldable oblique lock bar connecting one of said side bars to one of said crossbars, and outside and intermediate walk boards, the former being hinged to said side bars for folding movements and the latter being loosely applicable on said crossbars.

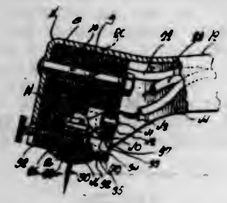
1,943,872
ARYLAMINO-1-HYDROXY-NAPHTHALENE-2-CARBOXYLIC ACIDS
Leopold Lauka and Oskar Haller, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application February 23, 1933, Serial No. 658,241, and in Germany February 27, 1932
4 Claims. (Cl. 260—109)

1. The arylamino-1-hydroxy-naphthalene-2-carboxylic acids of the general formula:



wherein R stands for a radical of the benzene series, which compounds have a definite melting point, are soluble in alkalies and exhibit intense colorations when their alcoholic solutions are mixed with a dilute solution of ferric chloride.

1,943,873
ELECTRIC PICK-UP FOR SOUND REPRODUCTION
Lynn H. Matthias, Milwaukee, Wis., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 16, 1930. Serial No. 468,326
12 Claims. (Cl. 179—100.41)



4. In a phonograph pick-up, two spaced abutments carrying electric terminals, a central terminal member having spaced arms in alignment with the abutments, a compressible resistor confined between each abutment and the adjacent arm of the central terminal member, and a stylus carrier mounted with a part disposed between the spaced arms of the central terminal member to bear against the adjacent ends of the compressible resistors.

1,943,874
DRIER
Andrew O. Mee, Toppenish, Wash., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application August 31, 1931. Serial No. 560,294
2 Claims. (Cl. 34—12)

1. In a drier, and endless conveyor comprising a plurality of transversely disposed absorbent surfaced rollers, and a plurality of diagonally arranged supporting slats for supporting the



rollers in the working run of the conveyor, the supporting surfaces of said slats being covered with absorbent material.

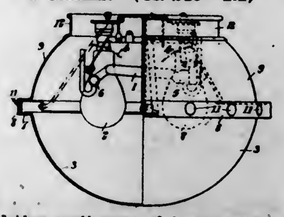
1,943,875
CLEANING IRON AND STEEL
Adriaan Nagelvoort, Wilmington, Del., assignor to Delaware Chemical Engineering Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 30, 1933, Serial No. 654,359. Renewed December 2, 1933
4 Claims. (Cl. 148—8)

1. In cleaning iron and steel articles, the process which comprises exposing such articles to an atmosphere of air containing a minute amount of phosgen and at a temperature between 100° and 200° C.

1,943,876
PRODUCTION OF ANTHRAQUINONE DERIVATIVES
Paul Nawiasky, Ludwigshafen-on-the-Rhine, Berthold Stein, Mannheim, and Artur Krause, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application May 1, 1931, Serial No. 534,458, and in Germany May 10, 1930
11 Claims. (Cl. 260—59)

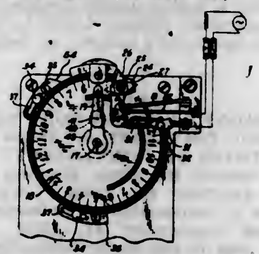
6. Amino-dialkoxyanthraquinones.

1,943,877
LIGHTING UNIT
Richard Arthur Surtees Paget, Lancaster Gate, England, assignor to Thermal Syndicate Limited, Neptune Bank, Wallsend-on-Tyne, England
Application January 4, 1929, Serial No. 330,318, and in Great Britain January 7, 1928. Renewed June 14, 1933
4 Claims. (Cl. 240—1.1)



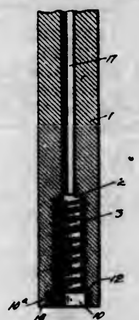
1. A lighting unit comprising a source of ultra-violet radiation and a screen of fused silica, the screen being designed with reference to proportion and size of bubbles, thickness and glaze so as to absorb a relatively very large portion of the radiation in the dangerous far ultra-violet part of the spectrum and to transmit a relatively large proportion of the beneficial near ultra-violet part of the spectrum.

1,943,878
TIME SWITCH MECHANISM
Riccard Pudelko, Zug, Switzerland, assignor to Landis & Gyr, A.-G., a joint-stock company of Switzerland
Application July 10, 1929, Serial No. 377,257, and in Switzerland July 12, 1928
9 Claims. (Cl. 200—38)



1. In a time switch mechanism, a switch, a clock mechanism, a switch operating member driven by said clock mechanism for operating the switch each day in accordance with the setting or rising of the sun, a second switch operating member cooperating with the first member in certain positions and moved out of switch operating position by said first member.

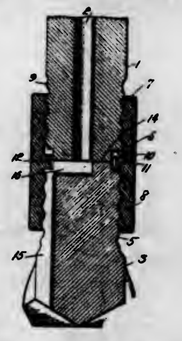
1,943,879
DRILL
Walter C. Rea, New York, N. Y., assignor to Detachable Bit Corporation of America, New York, N. Y., a corporation of Delaware
Application April 8, 1930. Serial No. 442,497
10 Claims. (Cl. 255—64)



7. In a rotary impact drill, the combination of two tubular sections in end to end abutting relation and provided with stop faces, the bores of said sections being threaded, a male coupling having opposite ends in threaded engagement with the sections and having a flange adjacent its midlength and positioned between the threaded ends, said flange having opposite sides facing said stop faces and one of said sides spaced from its opposing stop face.

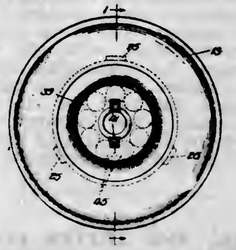
1,943,880
DRILL
Walter C. Rea, New York, N. Y., assignor to Detachable Bit Corporation of America, New York, N. Y., a corporation of Delaware
Application May 8, 1930. Serial No. 450,629
11 Claims. (Cl. 255—64)

9. In a percussively driven rock drill, the combination of a tubular drill rod and bit in end to end abutting relation and with their bores providing fluid passageways, and a male coupling member solid along the axis of rotation of the drill having opposite ends in threaded engagement with the rod and bit and provided on one side



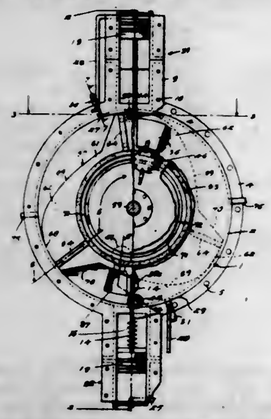
with a long straight groove coacting along its entire length with the bore through the bit for transmitting fluids from the bore of the drill rod through the bit in spaced relation within the outline of its cutting edges.

1,943,881
ROLLER
Robert R. Ware, Chicago, Ill., assignor to Chicago Roller Skate Company, Chicago, Ill., a corporation of Arizona
Application December 5, 1930. Serial No. 500,178
1 Claim. (Cl. 208—181)



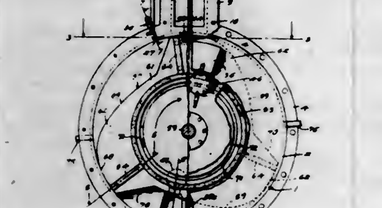
A roller for roller skates comprising a preformed cylindrical block made of moldable material and having a central opening therethrough, an annular plate fastened on each side of the block and having a central opening alining with the central opening in the block, each plate having a central dished portion surrounding the opening and forming a ball race, a tube passing through the alined openings and through which a shaft is adapted to extend, an annular ball retaining member carried by the tube, a shoulder on the tube to position the member thereon, said member adapted for cooperation with one of said plates to form a ball race, balls in said race, a second ball retaining member threadedly engaging said tube and cooperating with the other of said plates to provide a ball race, and balls in said last named race, said last named retaining member having a notch therein, said tube having a portion thereof deformed and receivable in the notch whereby the last named retaining member is fixedly connected to the tube, said block extending from its outer periphery inwardly between the plates substantially to the openings in the plates.

1,943,882
ROTARY ENGINE
Paul W. Young, Taft, Calif.
Application March 25, 1930. Serial No. 438,781
3 Claims. (Cl. 60—44)



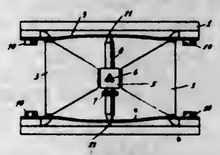
1. A rotary engine comprising a casing, a power cylinder in the casing, an impeller journaled in the casing, said impeller including pistons contacting at one point with the wall of the cylinder and having an eccentric intermediate portion extending inwardly of the cylinder wall, an air compressor cylinder carried by the casing, a reciprocable piston in the air cylinder, an abutment slidable with the piston and engaging the outer edge of a piston for operation thereby, means constantly holding the abutment into contact with a piston, a combustion chamber on one side of the abutment, a spring pressed compression valve on the opposite side of the abutment and having communication with the combustion chamber, means for discharging fuel into the combustion chamber, fuel ignition means, means for discharging air from the air compressing cylinder into said power cylinder on said opposite side of the abutment, and means for exhausting the burned gases from the power cylinder.

1,943,883
NUMERAL AND LETTER FORMING REFRIGERANT CIRCUITS
Clyde C. Andrews, Portland, Oreg.
Application June 13, 1931. Serial No. 544,130
1 Claim. (Cl. 49—125)



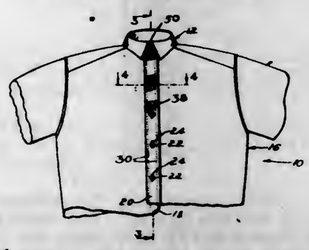
In a device of the class described, the combination with a refrigerating system, of a plurality of characters of hollow tubular formation adapted to be joined together in open communication to form a continuous conduit through which a refrigerant may be circulated to form a frosted coating upon the exterior thereof, each of said characters having a plurality of baffle plates disposed therein, and supplemental tubular members extending through said baffle plates for directing the refrigerant through a predetermined path throughout the entire interior of the character, means formed in each of said characters for joining one with the other in open communication, said means including an individual section of tubing in open communication with each individual character, said individual tubing being internally threaded at both of its ends to threadedly receive a hollow union coupling, and each of said individual tubings being formed with a partition substantially midway its length.

1,943,884
FERROMAGNET SYSTEM FOR CONVERTING ELECTRIC OSCILLATIONS INTO ACOUSTIC VIBRATIONS OR CONVERSELY
Albertus Antony Bartelink, Eindhoven, Netherlands, assignor to Radio Corporation of America, a corporation of Delaware
Application September 11, 1930, Serial No. 481,128, and in the Netherlands September 19, 1929
11 Claims. (Cl. 175—339)



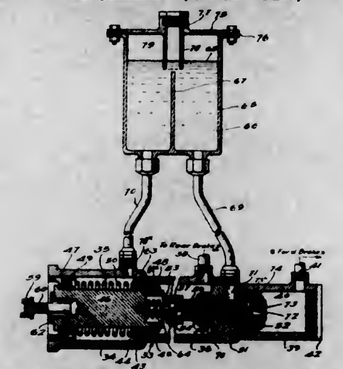
1. A ferromagnetic system for a transducer comprising, an armature, a rigid spindle about which said armature is adapted to vibrate as a center, and means for resiliently supporting said spindle for movement in the direction of its axis only.

1,943,885
SHIRT
Sidney D. Blue, New York, N. Y.
Application September 15, 1932
Serial No. 633,364
15 Claims. (Cl. 2—115)



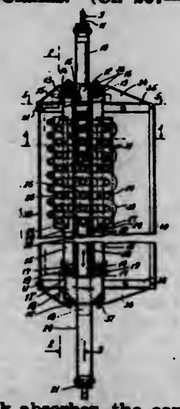
1. In articles of wearing apparel for men, a dress-shirt comprising fabric formed into a desired form for reception over the body of the wearer and having free edges disposed for positioning relatively to the chest of the wearer, means associated with the free edges for retaining them secured one to the other when the shirt is worn, said means including buttonholes in one edge for engagement by buttons on the other edge, the first edge being formed of multiple thickness, the buttonholes being formed through all the thicknesses of the material, and stiffening means received between thicknesses to rigidify the buttonhole free edge, said means having a longitudinal slot so that the means, at the position of the buttonholes, may straddle the buttonholes and permit the means to be slid, at will, between the thicknesses.

1,943,886
BRAKE APPARATUS
Eugene G. Carroll, Los Angeles, Calif., assignor, by mesne assignments, to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application October 29, 1928. Serial No. 315,630
32 Claims. (Cl. 60—54.6)



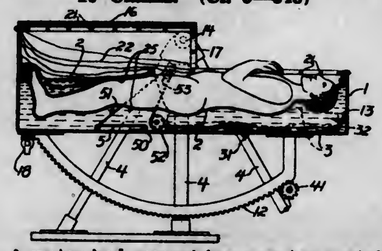
1. In a fluid pressure apparatus, the combination of a booster cylinder, a compression cylinder, means for supplying the operating fluid to the booster cylinder, means for simultaneously developing pressure in the booster cylinder and in the compression cylinder, including a plunger in the booster cylinder, means for advancing the plunger, means for returning the plunger and normally holding the same in its withdrawn position, said plunger having a port formed therein emerging on the side face thereof opening communication between the booster cylinder and the compression cylinder when the plunger is in its withdrawn position, said port operating to close when the plunger is moved forward to develop pressure in the compression cylinder, and a connection from the compression cylinder for delivering fluid under pressure from the same.

1,943,887
SHOCK ABSORBING STRUT FOR AEROPLANES
Raymond E. Dowd, Staten Island, N. Y., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application January 8, 1929. Serial No. 331,102
17 Claims. (Cl. 267—9)



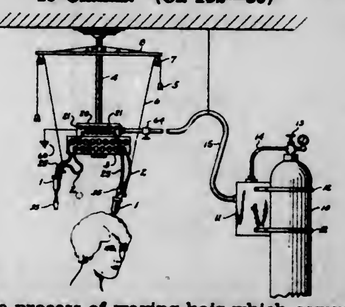
17. In a shock absorber, the combination of a pair of relatively longitudinally movable members, said members being in variable frictional engagement with each other, and an endless elastic band anchored by opposite bights to one member and forming a double loop around the other member and secured thereto, said band being adapted to vary the frictional engagement of said members upon relatively longitudinal movement thereof.

1,943,888
WATER BED
Carl A. Ewald, Seattle, Wash.
Application January 25, 1932. Serial No. 588,632
10 Claims. (Cl. 5—348)



1. A water bed comprising a water-containing box open at its top, and an impervious sheet of area substantially in excess of twice the area of the open top of the box, secured by its edges to the box.

1,943,889
PERMANENT WAVING
Virginio Jean Gentile, Summit, N. J., assignor to Beauty Utilities, Inc., Summit, N. J., a corporation of Delaware
Application May 9, 1931. Serial No. 536,227
19 Claims. (Cl. 132—36)

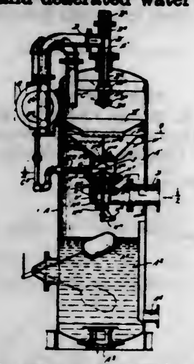


1. The process of waving hair which comprises heating a coiled tress of hair and thereafter applying a chilling medium to the hair to cause the heated hairs to contract and set in their coiled position.

1,943,890
METHOD OF AND APPARATUS FOR HEATING AND DEGASIFYING LIQUIDS
George H. Gibson, Upper Montclair, N. J., and Victor A. Rohlin, Philadelphia, Pa., assignors to Cochrane Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application August 13, 1931. Serial No. 556,738
17 Claims. (Cl. 261—115)

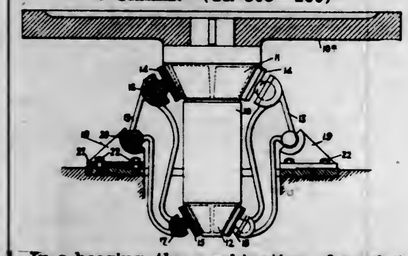
1. The method of heating and deaerating water which comprises passing water to be treated in a finely divided form into a steam chamber, heating the water while in said chamber to approximately the steam temperature and liberating a

portion of the entrained gases by contact with steam supplied at a relatively high velocity to said chamber at a point below the point of introduction of the water, and completing the heating and deaerating treatment by bringing the partially heated and deaerated water into intimate



contact with the steam while the latter is moving in a direction transverse to the direction of movement of the water so brought into contact with the steam, and while the steam velocity is sufficiently high to atomize the water and release substantially all of the remaining gases in solution.

1,943,891
BEARING CONSTRUCTION
Francis Hodgkinson, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application September 21, 1931
Serial No. 564,237
6 Claims. (Cl. 308—160)

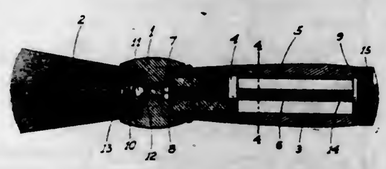


1. In a bearing, the combination of a substantially vertical shaft having axially spaced, upper and lower frustro-conical journal portions, upper and lower groups of bearing segments arranged about the axis of the shaft and engaging respectively the upper and lower journal portions, and common means for supporting the upper and lower segments and for maintaining contact thereof with the respective journal portions and providing for distribution of load between the upper and the lower groups of segments.

1,943,892
PURIFICATION OF ORGANIC ACIDS
Alphons O. Jaeger, Mount Lebanon, and Lloyd C. Daniels, Crafton, Pa., assignors to The Selden Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application August 8, 1929
Serial No. 384,467
10 Claims. (Cl. 260—106)

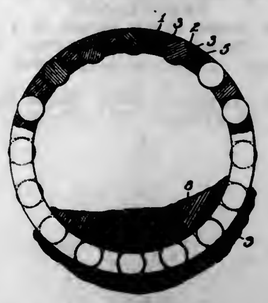
1. A method for the purification of substances included in the group consisting of aromatic carboxylic acids and their anhydrides which contain impurities more readily oxidised than the salts of the acids or anhydrides and which salts are not attacked by hypohalites, which comprises transforming the substances into their alkali forming metal salts and subjecting the salts in aqueous dispersion to the action of an oxidizing agent included in the group consisting of hypohalites and peroxides, precipitating the acids from the aqueous dispersion and separating them from the oxidized impurities by filtration.

1,943,893
FOUNTAIN BRUSH
George W. Johnson, Diamond Springs, Calif.
Application March 24, 1933. Serial No. 662,461
3 Claims. (Cl. 15—137)



1. In a fountain brush, a tubular barrel for plastic material, a turnable knob on one end of the barrel, a screw rod secured to the knob and projecting through the barrel, a non-turnable plunger through which the rod is threaded, said rod having a passage leading from the outer end of the knob to the periphery of the rod within the barrel at a point inwardly of the fully retracted position of the plunger, and a removable plug normally closing the outer end of the passage.

1,943,894
ROLLER BEARING RETAINER
James P. Johnson, Cleveland, Ohio
Application May 16, 1929. Serial No. 363,484
4 Claims. (Cl. 308—217)



1. A roller bearing comprising an integral retainer ring having formed therein a plurality of peripherally spaced slots, the peripherally spaced walls of said slots being disposed in substantially radial planes and being grooved, adjacent their mid-portions only, on axes extending parallel with the axis of said ring, and a roller for each of said slots, the diameters of said rollers being slightly greater than the distance between the radially outward portions of said walls of said slots, and slightly less than the peripheral dimensions of the grooved portions of said slot walls.

1,943,895
GLAZE BREAKING TOOL FOR GAS ENGINE VALVE SEATS
William J. Kattrein, Albany, N. Y., assignor to Watervliet Tool Company, Inc., Albany, N. Y., a corporation of New York
Application July 12, 1930. Serial No. 467,396
6 Claims. (Cl. 29—76)



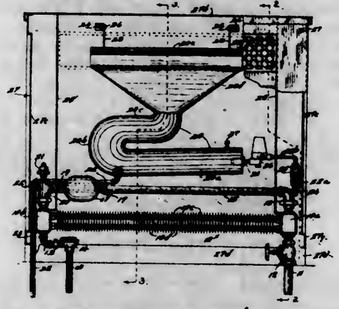
1. In combination, a circular head having a central tapered bore, a conical face having tangentially extending grooves and adjacent threaded sockets semi-tubular, breaker-files partially resting in said grooves and partly on said conical face, said breaker-files having convex abrasive faces; and devices in said threaded sockets for locking said breaker-files in said grooves.

1,943,896
WINDOW SHADE SLAT
Carl E. Kopfstein, Pittsburgh, Pa.
Application August 24, 1932. Serial No. 630,161
4 Claims. (Cl. 156—31)



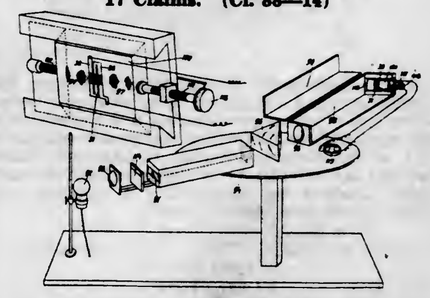
1. A window shade attachment of the character described comprising a hollow body portion provided with a flange forming a longitudinally extending pocket adapted for receiving and engaging the folded end of the window shade, said folded end of the shade being longitudinally shiftable in said pocket.

1,943,897
HUMIDIFIER HAVING CONDUITS WITH RETURN BENDS
Gottlieb R. Magney, Minneapolis, Minn.
Application June 25, 1932. Serial No. 619,268
12 Claims. (Cl. 257—138)



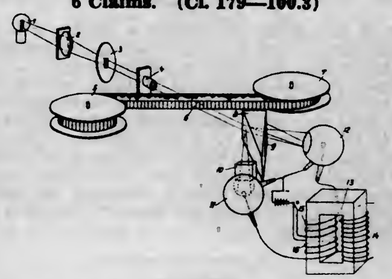
6. A humidifying device having in combination with a radiator, a housing enclosing said radiator having an air inlet opening adjacent its bottom and an outlet opening adjacent its top, a conduit above and connected at its ends to said radiator, a casing in said housing extending longitudinally above said radiator and having a reverse bend therein, a liquid supply pipe extending through said conduit, a nozzle connected to said supply pipe and disposed at one end of said casing for directing a fine mist or spray thereinto, said casing having a discharge opening adjacent said outlet opening.

1,943,898
METHOD AND MEANS FOR ANALYZING AND TRANSLATING ENERGY FORMS
Carl Müller, Berlin-Charlottenburg, Germany
Application October 1, 1928, Serial No. 309,373, and in Germany October 29, 1926
17 Claims. (Cl. 88—14)



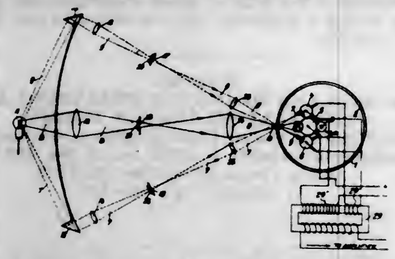
1. In an analyzing system, an analyzing slot, means for positioning said slot in registry with any desired portion of the object to be analyzed, means for translating the characteristics of a portion of said object in registry with said slot into thermoelectric currents, the last mentioned means comprising a thermoelectric element centrally positioned with relation to said slot and supplementary thermoelectric elements laterally displaced with relation to the slot center.

1,943,899
METHOD AND MEANS FOR ANALYZING AND TRANSLATING ENERGY FORMS
Carl Müller, Berlin-Charlottenburg, Germany
Original application October 1, 1928, Serial No. 309,373, and in Germany October 29, 1926. Divided and this application November 27, 1929. Serial No. 410,222
6 Claims. (Cl. 179—100.3)



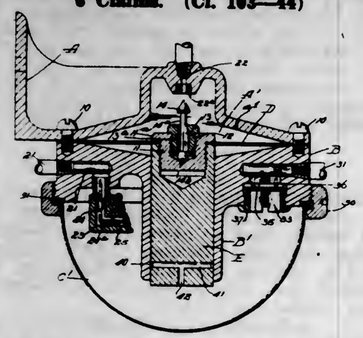
1. In a system of reproducing sound from a record, the method of using a relatively wide resolving member to give effects corresponding to a theoretically fine resolving member which comprises selecting a unit of the record adjacent to the unit under analysis and affecting the response from the unit under analysis by subtracting a response obtained from said selected unit.

1,943,900
PICTURE TRANSMITTING APPARATUS
Carl Müller, Berlin-Charlottenburg, Germany
Application November 27, 1929, Serial No. 410,223, and in Germany October 29, 1926
18 Claims. (Cl. 178—6)



1. In a system for transmitting a picture, the method of using a relatively wide resolving member to give effects corresponding to a theoretically fine resolving member which comprises selecting a unit of the picture adjacent to the unit under analysis and affecting the response from the unit under analysis by subtracting a response obtained from said selected unit.

1,943,901
FUEL PUMP
Edward A. Rockwell, Chicago, Ill.
Application November 16, 1929, Serial No. 407,598. Renewed May 29, 1933
6 Claims. (Cl. 103—44)



1. A fuel pump comprising a casing, a flexible diaphragm clamped to said casing and supported in horizontal position, a piston secured to said diaphragm and guided for vertical reciprocation by a portion of said casing, check valve controlled fuel inlet and outlet passages in said casing adapted to be connected to a fuel delivery line and a bowl secured to said casing forming a fuel pumping chamber, said piston and the guiding portion of said casing extending to adjacent the bottom of said bowl below the openings of the inlet and outlet passages.

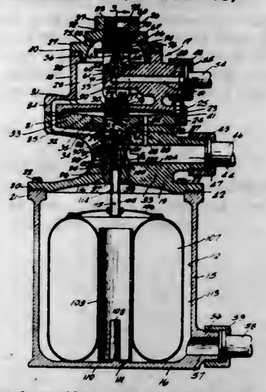
1,943,902
PRINTING PRESS
Ernest James Smith, Fleet Street, England, assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application March 11, 1932. Serial No. 598,133
11 Claims. (Cl. 101—378)

1. A lock-up device for plate cylinders including in combination three spaced clips to clamp an inner and outer plate on the cylinder, means for simultaneously releasing both plates and



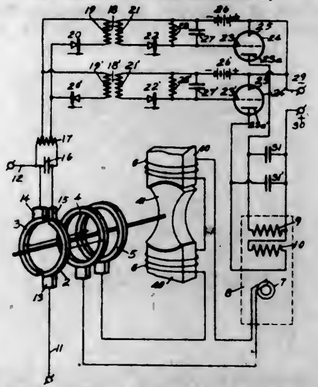
means for clamping a plate between the outer pair of clips in the absence of an inner plate.

1,943,903
CARBONATING APPARATUS
John E. Treanor, Nogales, Ariz.
Application November 11, 1931
Serial No. 574,324
15 Claims. (Cl. 261—75)



4. In a carbonating apparatus, the combination of: a tank; a float member movable in said tank; a well member in said tank independent of said float; centralizing means for said well member; walls forming a water inlet and a gas inlet; and gas and water mixing means in communication with said gas and water inlets, and in operative connection to said float, said mixing means being arranged to discharge water and gas into said well.

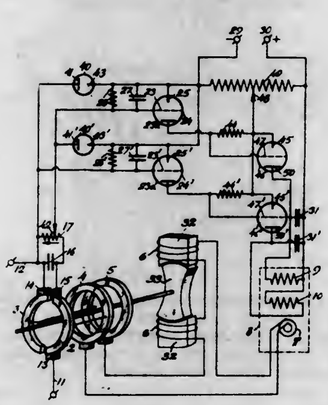
1,943,904
COMMUTATION OF ELECTRIC MACHINES
Baltzar Carl von Platen, Stockholm, Sweden
Application August 17, 1931, Serial No. 557,626, and in Sweden August 18, 1930
20 Claims. (Cl. 171—228)



1. In an electric machine, an induced winding, a commutator and brushes associated therewith, one of said brushes being formed in a plurality

of peripherally spaced parts whereby voltage impulses are produced therebetween in response to incorrect commutation, a commutation generator cooperating with said winding and adapted to compensate for said incorrect commutation and to produce sparkless commutation, a pair of exciting windings for said generator, means for normally passing equal and opposite currents through said exciting windings, and means controlled by the amplitude and direction of said impulses for causing an unbalance between the currents in said exciting windings whereby the resultant excitation causes said commutation generator to correct for the condition giving rise to said impulses.

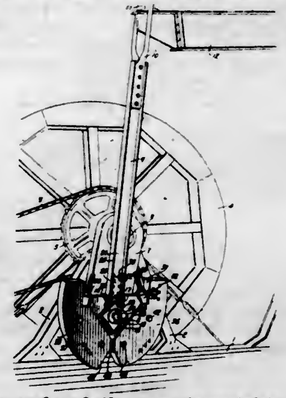
1,943,905
COMMUTATION OF ELECTRIC MACHINES
Baltzar Carl von Platen and Gunnar Axel Grubb, Stockholm, Sweden
Application November 18, 1931, Serial No. 575,702, and in Sweden November 19, 1930
8 Claims. (Cl. 171—228)



2. In an electric machine, a winding, a commutator and brushes associated therewith, means associated with one of said brushes for receiving a voltage impulse in response to incorrect commutation of said winding, a commutation control device adapted to correct said incorrect commutation, means for controlling said device comprising a pair of channels interconnecting said first means and said device, each channel containing a pair of space discharge tubes connected in cascade, oppositely disposed rectifiers associated with each of said channels whereby an impulse of a given direction differentially operates said channels, means whereby said channels normally produce no effect on said commutation control device, and means operated in response to said impulse for causing said control device to correct the incorrect commutating voltage which gave rise to said impulse.

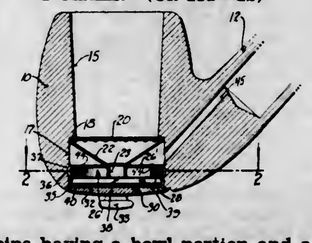
1,943,906
COUNTERWEIGHTED PITMAN
George W. Walten, Dallas, Tex.
Application October 26, 1931. Serial No. 571,103
10 Claims. (Cl. 74—71)

1. A counterbalance for apparatus of the character described comprising, in combination with a pitman and a weight mounting member in fixed relation with the pitman, a pair of counterweights, hingedly connected together at their lower ends and means detachably securing



the upper ends of the counterweights to said mounting member.

1,943,907
SMOKER'S PIPE
Louis T. Watry, West Allis, Wis.
Application May 12, 1932. Serial No. 610,877
4 Claims. (Cl. 131—12)

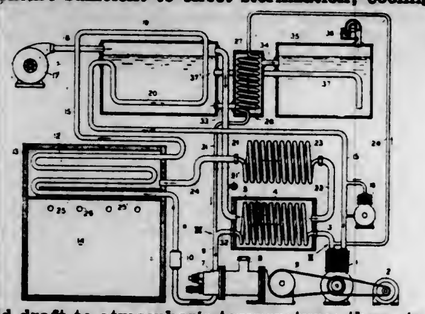


1. A pipe having a bowl portion and a hollow stem, said bowl portion having an opening extending therethrough providing an upper tobacco receiving chamber and a lower chamber directly therebeneath, the hollow stem communicating with the lower chamber, a shoulder at the juncture of said chambers, a foraminous grid engaging the under surface of the shoulder and forming the bottom for the tobacco receiving chamber, a funnel disposed in said lower chamber with its upper peripheral edge portion engaging the grid, a cap to close the bottom of the lower chamber, an absorbent pad supported on the cap and lying closely adjacent the discharge end of the funnel so that smoke drawn through the funnel impinges the absorbent pad, and a perforated baffle supported from said cap and engaging the funnel to hold said funnel and the grid in position, said baffle extending across the space between the funnel and the cap but beneath the point of communication of the hollow stem with the lower chamber to positively preclude the passage of the moisture into the hollow stem.

1,943,908
METHOD AND APPARATUS FOR REFRIGERATION
William J. Woods, Berkeley, Calif.
Application July 23, 1932. Serial No. 624,222
4 Claims. (Cl. 62—136)

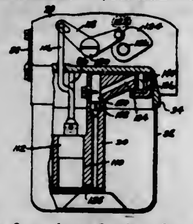
4. The method of refrigeration consisting of creating a draft of atmospheric air; drying said draft to a relatively low absolute humidity; heat-

ing said draft at atmospheric pressure to a temperature sufficient to effect sterilization; cooling



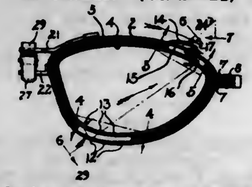
said draft to atmospheric temperature; then circulating said draft in proximity with suitable chilled coils.

1,943,909
CHARGE FORMING DEVICE
Fred E. Aseltine, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware
Application February 1, 1930. Serial No. 425,221
21 Claims. (Cl. 261—34)



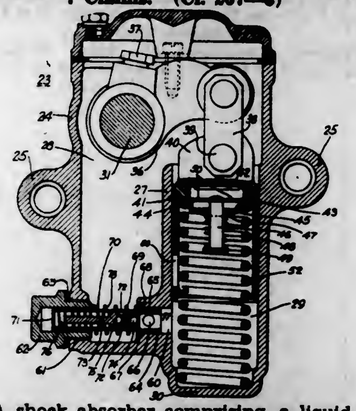
1. A charge forming device for internal combustion engines comprising, a mixture passage having a mixing chamber therein, means for supplying fuel and air to the mixture passage, a secondary air passage adapted to supply additional air to said mixing chamber at a point remote from the mixing chamber under certain operating conditions, a throttle, and means operated by the throttle on opening movements thereof under any operating conditions for supplying fuel to the secondary air passage.

1,943,910
GOGGLES
Nelson M. Baker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application June 15, 1927. Serial No. 199,013
15 Claims. (Cl. 2—14)



1. In a device of the character described, an outer eye cup frame adapted to hold a lens and having an intake opening on one side thereof and an outlet opening on the opposite side thereof, an inner eye cup frame spaced from and substantially parallel to the outer eye cup frame and having an intake opening on one side thereof and an outlet opening on the opposite side thereof in offset relation to the openings of the outer eye cup frame, a rubber face contacting member having a portion held between the outer and inner eye cup frames, said portion of the rubber between the frames being cut away adjacent the intake and outlet openings to allow the passage of air therethrough.

1,943,911
SHOCK ABSORBER
Ralph Irwin Bates, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware
Application March 8, 1929. Serial No. 345,478
7 Claims. (Cl. 267—8)



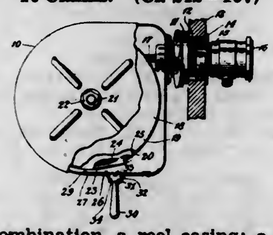
1. A shock absorber comprising, a liquid containing reservoir, a cylinder having a port communicating with said reservoir, a piston reciprocable in the cylinder, a spring actuated relief valve in said port provided with a tubular stem, having apertures to permit fluid to by-pass the valve while seated, in response to slight or slow movements of the piston; a plunger in said tubular stem adapted to close said apertures and discontinue the by-passing of fluid in response to higher pressures caused by increased movements of the piston, said relief valve being movable to open the port and establish a flow therethrough in response to sudden and extended movements of the piston causing substantially higher fluid pressures in the cylinder.

1,943,912
SUPPORTING MEANS FOR ELECTRIC CONDUCTORS AND CABLES
Howard M. Bollinger, Washington, D. C.
Application March 2, 1933. Serial No. 659,498
2 Claims. (Cl. 248—31)



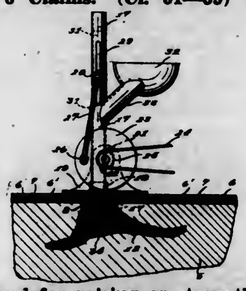
1. Means for suspending a conductor or a conductor-carrying messenger in spans between spaced supports, said means comprising, in association with each support, flexible hanger means having a portion fixedly secured to the support and extending downwardly in opposite directions from the support along and above the conductor or messenger to support the weight of said conductor or messenger between two spans, the flexibility of the hanger means permitting substantially universal flexing movements of the conductor or messenger and the hanger means ordinarily having its end major portions extending in each direction considerably beyond said support, the portion of the conductor or messenger intercepted between the ends of the hanger means forming with the hanger means a relatively flat substantially isosceles triangle of which said intercepted portion is the base, the length of said intercepted portion being a relatively small fraction of the distance between the adjacent supports, the triangular formation of which said intercepted portion forms a part being highly sensitive to and mobile under pulsations transmitted thereto along the conductor or messenger whereby the pulsations are enabled to pass the suspension means without substantial retardation.

1,943,913
WIRE REEL
Joseph H. Cohen, Bridgeport, Conn.
Application April 23, 1928, Serial No. 272,263
Renewed March 1, 1933
10 Claims. (Cl. 242—107)



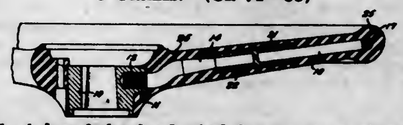
2. In combination, a reel casing; a cable-reel journalled in said casing; a spring for turning said reel to wind the cable thereon; a normally inoperative back-check pawl mounted in the casing adapted to cooperate with the reel to stop retrograde movement of the reel; and a lever mounted directly on said casing within the same for manual operation to render the back-check pawl operative.

1,943,914
METHOD AND MEANS FOR RAISING SUNKEN PAVEMENTS AND THE LIKE
John Flock, Olney, Ill.; Mathilda G. Flock administratrix of said John Flock, deceased
Application October 31, 1930. Serial No. 492,562
6 Claims. (Cl. 61—35)



3. A method for raising or strengthening the support of earth-carried structures such as pavements, foundations and the like, comprising the steps of inserting a filling material such as dirt or clay into a vertical conduit and then tamping the material downward through said conduit into the earth adjacent the particular structure.

1,943,915
STEERING WHEEL
Harvey D. Geyer, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a corporation of Delaware
Application September 15, 1932
Serial No. 633,298
8 Claims. (Cl. 74—33)



1. A handwheel adapted for use as a steering wheel on automotive vehicles, comprising: a metal skeleton having a hub, spokes and rim portion, said spokes each having an inner and outer portion flexibly connected together by means of a resilient rubber bushing encasing the adjacent ends of said inner and outer portions, and a non-metallic covering for said metal skeleton.

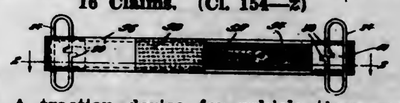
1,943,916
PROCESS FOR THE PRODUCTION OF METALLIC MAGNESIUM
Alfred Claude Jessup, Broadway, and Maurice Noel Lacell, London, England
No Drawing. Application October 31, 1932
Serial No. 640,572
17 Claims. (Cl. 204—19)

1. The cyclic process for the manufacture of magnesium by the electrolysis of fused magnesium chloride, which comprises the steps of bringing the chlorine which is liberated at the anode of the electrolytic cell into contact with a carbonaceous fuel at an elevated temperature, simultaneously adding hydrogen oxide to obtain hydrochloric acid gas, and causing the hydrochloric acid so obtained to react upon an acid-soluble oxygen-containing basic compound of magnesium for the purpose of producing magnesium chloride, which after dehydration is subjected to the electrolytic step.

1,943,917
PREVENTION OF SKIDDING OF VEHICLES
Walter Josky, Hamburg, Germany
No Drawing. Application July 9, 1932, Serial No. 621,759, and in Germany August 8, 1931
16 Claims. (Cl. 152—14)

1. A process for the prevention of the skidding of tyres particularly rubber-tyres of power driven vehicles in which a solution of resinous material is applied to the tyres as required, said solution being then transformed into a viscous and adhesive material by dilution with water.

1,943,918
TRACTION DEVICE FOR VEHICLE TIRES AND METHOD OF MANUFACTURE
Edward F. King, Cranston, R. I.
Application February 14, 1931. Serial No. 515,812
16 Claims. (Cl. 154—2)



2. A traction device for vehicle tires, comprising a plurality of spaced cross strap members of flexible material adapted to overlie the tire surface having links directly attached to each end thereof and members connecting the links together to form with said links continuous tire side chains.

1,943,919
GRANULAR CALCIUM PHOSPHATE AND METHOD OF PRODUCING THE SAME
William H. Knox, Jr., Nashville, Tenn., assignor to Victor Chemical Works, Chicago, Ill., a corporation of Illinois
No Drawing. Application September 19, 1931 Serial No. 563,889
5 Claims. (Cl. 23—109)

1. A mechanically resistant mono-calcium phosphate containing less than 0.5% iron phosphate, less than .2% MgO and with from 1 to 2% alkali metal oxide.

1,943,920
PROCESS FOR THE PRODUCTION OF METALLIC MAGNESIUM
Maurice Noel Lacell, Finchley, London, England
No Drawing. Application March 21, 1927, Serial No. 177,225, and in France March 26, 1926. Renewed May 29, 1933
7 Claims. (Cl. 204—19)

1. The cyclic process for the manufacture of magnesium by the electrolysis of fused magnesium chloride, which comprises the steps of bringing the chlorine which is liberated at the anode of the electrolytic vessel with oxygen, into contact with a material containing carbon at a temperature sufficiently elevated to form phosgene, adding water to the phosgene thus obtained to produce hydrochloric acid gas, reacting with the hydrochloric acid gas thus obtained upon an oxygen compound of magnesium to transform it into magnesium chloride.

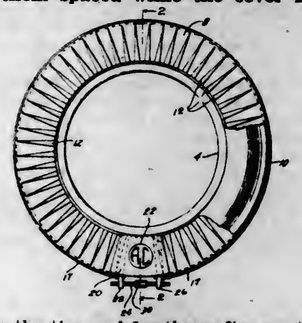
1,943,921
COMPASS
Carl G. Larson, Attleboro, Mass., assignor to Larson Tool and Stamping Company, a corporation of Massachusetts
Application May 19, 1932. Serial No. 612,179
7 Claims. (Cl. 33—157)



1. An instrument comprising two branches, a pivot pin for connecting said branches together, means for adjusting and maintaining said branches in desired position including a yoke having spaced apart, flat lip portions in engagement with each of said branches at two spaced points thereof to steady the same.

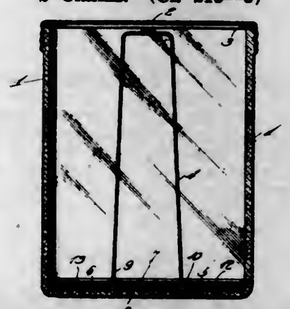
1,943,922
COVER FOR SPARE TIRES
George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Asbury Park, N. J., a corporation of Delaware
Application December 22, 1928 Serial No. 327,816
11 Claims. (Cl. 150—54)

2. In an automobile spare tire cover, a split ring portion for disposition on the tread of the tire, a side portion associated therewith for disposition over the exposed outer side wall of the tire, and means mounted thereon for forcibly spreading the ends of the split ring portion apart to hold them spaced while the cover is being



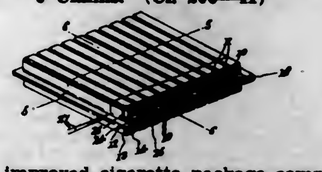
applied to the tire and for thereafter contracting the ring portion to draw the ends of the ring portion toward each other to hold the ring portion in position on the tire.

1,943,923
CONTAINER
Daniel J. McCrudden, Jr., Philadelphia, Pa., assignor to Monad Paint and Varnish Company, a corporation of Pennsylvania
Application May 25, 1931. Serial No. 539,917
2 Claims. (Cl. 215—3)



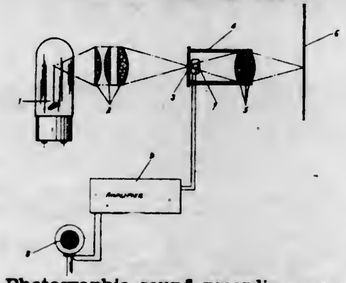
1. In combination, a container, a closely fitting false bottom positioned in said container, means for withdrawing said false bottom, said means comprising a member projecting through openings formed in said false bottom said member having sections pressed into said false bottom, sections of said member in engagement with said false bottom being adjusted to enlarge said openings as said false bottom is withdrawn.

1,943,924
CIGARETTE PACKAGE
Samuel C. Miller, Louisville, Ky.
Application July 9, 1932. Serial No. 621,679
9 Claims. (Cl. 206—41)



1. An improved cigarette package comprising a cellular sheet and a cover sheet overlaid upon the cellular sheet, said cellular sheet being looped a number of times and secured to the cover sheet at its looped portions whereby to form two groups of individual cells for cigarettes, said cellular sheet providing a wide web portion between the groups secured to the cover sheet and forming a flexible hinge upon which the two groups are folded to bring the two halves of the cover sheet together, the end portions of the cells beyond the ends of the cigarettes being crimped and sealed.

1,943,925
MEANS AND METHOD FOR RECORDING SOUND PHOTOGRAPHICALLY
Freeman H. Owens, New York, N. Y.
Application September 16, 1929, Serial No. 393,029. Renewed June 8, 1933
4 Claims. (Cl. 179—100.3)

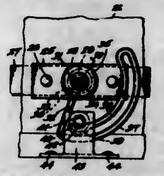


1. Photographic sound recording means comprising a source of actinic light of constant intensity, a traveling film adapted to receive rays of light from said source, a glow lamp of non-actinic light disposed in the path of said rays, and sound controlled means for rendering said glow lamp a modulator for said rays in accordance with the sound to be recorded.

1,943,926
COATING COMPOUND
Mary B. Parrish, Philadelphia, Pa.
No Drawing. Application October 20, 1928 Serial No. 313,947
9 Claims. (Cl. 134—55)

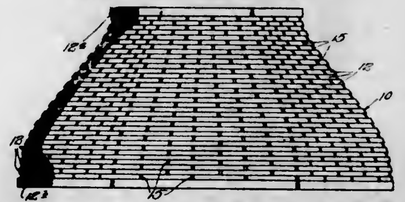
9. A decorative paint comprising the reaction product of a coal tar dye of the class consisting of acid coal tar dyes and basic coal tar dyes, tincture of hyssop, a thickening agent comprising gelatin, and pancreatin.

1,943,927
FASTENING FOR AUTOMOBILE HOODS
Ross M. G. Phillips, West Haven, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application April 16, 1931. Serial No. 530,463
2 Claims. (Cl. 292—241)



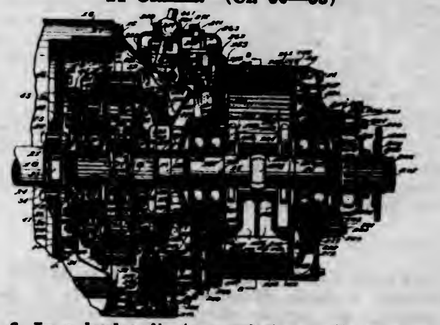
1. Fastening means for automobile hoods comprising bearing means carried by the hood, rotary means journaled in said bearing means, a handle adapted to rotate said rotary means disposed exteriorly of the hood and an arcuate yieldable spring member carried by said rotary means disposed interiorly of the hood, and a non-yieldable keeper adapted to be engaged by said spring member upon rotation of said handle, said spring member adapted to be tensioned through said engagement to hold the hood downwardly.

1,943,928
LAMP SHADE
Robert C. Pierce, Niles, Mich., assignor to National-Standard Company, Niles, Mich., a corporation of Michigan
Application December 19, 1932 Serial No. 647,977
6 Claims. (Cl. 240—108)



1. A lamp-shade, including: an outer covering formed of tape, said tape formed principally of a plurality of wires close enough together and of such diameter that said outer covering will be substantially transparent when looking from a dark side to a relatively lighter side and substantially opaque when looking in the reverse direction; and a cloth lining inside of said outer covering.

1,943,929
ROTARY HYDRAULIC POWER TRANSMISSION
Alden G. Rayburn, Sausalito, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation, a corporation of Delaware
Application July 23, 1929. Serial No. 380,357
14 Claims. (Cl. 60—53)

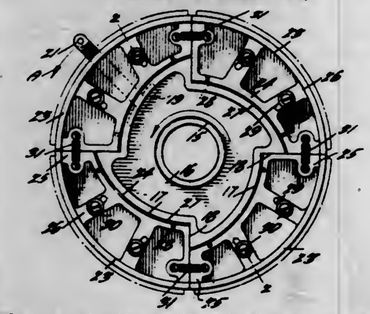


6. In a hydraulic transmission unit, a pump; means for driving said pump; a motor; means driven by said motor; a valve system for controlling the distribution of fluid between said pump and said motor; said valve system including a control valve and a clutch valve; separate means conveniently mounted upon said unit for manipulation of said clutch and control valves; and means rendering the manipulation of said control valve dependent upon prior manipulation of said clutch valve.

9. In combination with the crank shaft of a combustion engine, a flywheel; a driven shaft;

power transmitting means between said flywheel and said driven shaft; said transmitting means including a hydraulic harmonic balancer automatically adjustable in response to variations in speed for dampening the torsional vibrations of said crank shaft.

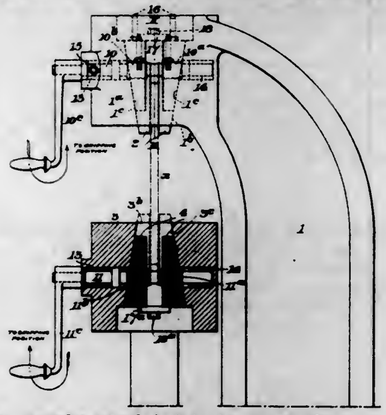
1,943,930
BRAKE AND CLUTCH
John Paul Rock, Duluth, Mo.
Application August 7, 1931. Serial No. 555,821
1 Claim. (Cl. 188—78)



The combination with a brake drum having a cylindrical side wall and a flat end wall, of a series of brake segments in said drum each having a flat end wall at the open end of the drum and each having an arcuate outer wall of equal width to and adapted to bear throughout its extent against the inner face of the drumside wall, each segment further having an arcuate inner wall of less width than the drum and radial end walls connecting the inner outer walls whereby the segments form a circular series of arcuate wedges, said segments having radial ribs between the arcuate walls each provided with a slot, the outer walls of the segments serving to hold the remainder of said segments spaced from the end wall of the drum whereby to form a chamber, a shaft concentric to the drum and keyed thereto, a cam member having a flat end wall meeting with the flat end walls of the segments and having eccentric outer side walls conforming in curvature and width to the inner walls of the segments, said cam member having radial walls connecting the ends of its adjacent outer side walls, a cover plate at the open side of the drum covering said segments and cam member, screws extending through the slots of the segments into said cover plate and having their heads in said chamber, tension springs in said chamber connecting said segments, and means to shift the cam member about the shaft with respect to said segments.

1,943,931
WEDGE GRIP FOR TESTING MACHINES
Herman J. Ruch, Woodbury Heights, N. J., assignor, by mesne assignments, to Baldwin-Southwark Corporation, a corporation of Delaware
Application July 3, 1929. Serial No. 375,638
9 Claims. (Cl. 24—265)

1. A pair of wedge grips for clamping test pieces; said wdege grips having oppositely disposed parallel surfaces and diagonally disposed teeth arranged in opposite relation at edges at right angles to said parallel faces, a pair of helical gears mounted for rotation on a common axis and disposed in engagement with the teeth of said wedge grips, a shaft to which said helical gears are fixed; said shaft being adjustable longitudinally whereby the relation of said helical gears with respect to the teeth of the wedge



grips may be regulated to insure uniform movement of the latter, and means for rotating the shaft carrying said helical gears.

1,943,932
WINDOW
Ward T. Simpson and James B. Bentley, Grand Rapids, Mich., assignors to Henry Randel Dickinson, Grand Rapids, Mich.
Application June 22, 1931. Serial No. 545,879
33 Claims. (Cl. 20—43)

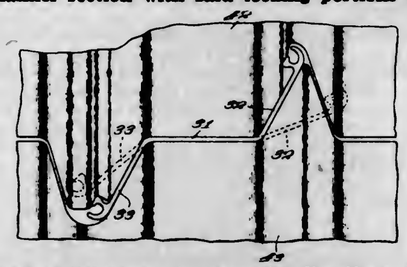


1. In a construction of the class described, a window frame having vertical guides at the vertical sides of said frame for two window sashes, members slidably mounted in said guides for sliding movement therein, one pair thereof for each window sash, window sashes pivotally mounted between said pair of members adjacent the lower ends of said sashes, releasable means for holding the sashes in vertical position, said means operating at the predetermined lower position of the sashes.

1,943,933
METHOD OF MAKING PILING SECTIONS OF GENERAL Z-SHAPE
Wallace W. Smith, Chicago, Ill., assignor to Inland Steel Company, Chicago, Ill., a corporation of Delaware
Application April 26, 1932. Serial No. 607,639
2 Claims. (Cl. 29—155)

1. The method of making a piling section of general Z-shape in cross section and formed of a web and flange portions extending therefrom

in opposite directions with locking portions at the outer edges of said flange portions, which consists in producing, by a rolling operation, a channel section with said locking portions ex-



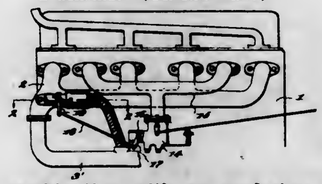
tending therefrom in opposite directions and thereafter, by a bending operation, causing said flange portions to extend in opposite directions from said web.

1,943,934
MARINE SCREW PROPELLER
Edmund Victor Telfer, Newcastle-upon-Tyne, England
Application November 3, 1931, Serial No. 572,819, and in Great Britain November 7, 1930
4 Claims. (Cl. 170—170)



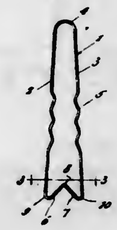
1. Screw propeller comprising blades having their faces roughened on marginal portions adjacent their leading edges, said roughenings being fine at the leading edge part, then gradually increasing in coarseness and finally gradually fading into the smooth surface of the blade and operative for establishing positive pressure areas over predetermined blade areas by resisting the flow of water over the blade.

1,943,935
THERMOSTATIC CARBURETOR CHOKE DEVICE
Knight N. Willmore and Arch P. Carroll, Fairfax, and Carl O. Stucker, Ponca City, Okla.
Application September 26, 1931
Serial No. 565,268
4 Claims. (Cl. 123—119)



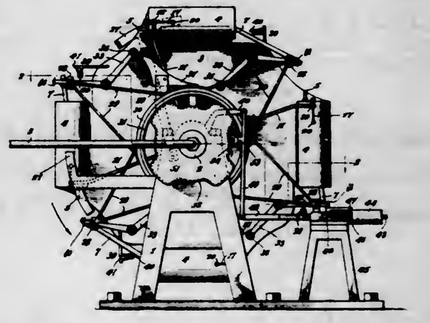
1. In combination with an explosion engine provided with an exhaust manifold and an exhaust discharge pipe communicating therewith, a carburetor having a choke valve, a casing communicating with said exhaust manifold and also communicating with said exhaust discharge pipe, a thermostatically controlled valve mounted within said casing, an operating arm carried by said thermostatically controlled valve, and a link connecting said arm with said choke valve for automatically opening and closing said choke valve as said thermostatically controlled valve is actuated within said casing.

1,943,936
HAIRPIN
Mabel Baldwin, Sacramento, Calif.
Application January 9, 1933. Serial No. 650,906
1 Claim. (Cl. 132—50)



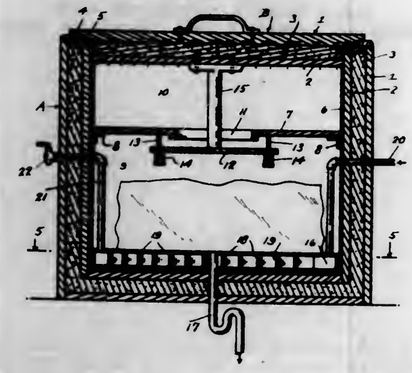
A hair pin including spaced legs connected at their upper ends by a bight and having upwardly inclined arms formed on their lower ends, the ends of said arms terminating in adjacent relation and in the same vertical plane whereby the retention of the pin within the hair without danger of abrasion to the scalp is effected.

1,943,937
ROTARY INTERNAL COMBUSTION ENGINE
Carl Gustaf Gustafson, Brooklyn, N. Y.
Application January 5, 1931. Serial No. 506,730
5 Claims. (Cl. 123—43)



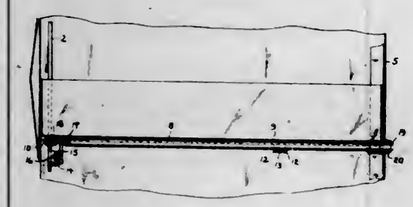
1. An internal combustion rotary engine comprising a fixed support, a flywheel, a shaft journaled in said support and upon which the flywheel is secured, cylinders fixed upon the peripheral edge of the flywheel and centered with respect to the opposite side faces thereof, pistons working in the cylinders, means for supplying fuel to the respective cylinders, cooperating means on the flywheel and the support to operate the pistons, an abutment slidably mounted adjacent the path of the cylinders, means driven by the shaft for disposing said abutment across the path of the cylinders to receive the thrust of a piston when the cylinder containing said piston is fired, and yieldable means for returning the abutment to normal position after firing the cylinder.

1,943,938
COMBINATION COOLER AND ICE BOX
Whitney A. Haydel, Jeanerette, La., assignor of one-sixth to Louis P. Bryant, Jeanerette, La., and one-sixth to Joe A. Daigre, New Iberia, La.
Application May 23, 1932. Serial No. 613,098
1 Claim. (Cl. 62—42)



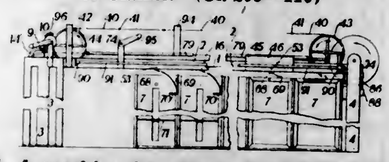
A combined ice box and water cooler comprising a housing, a cover for closing the top of the housing, a shelf extending horizontally across the housing and dividing the same into a lower ice chamber and an upper food chamber, said shelf having an opening therein, a spring pressed valve for normally closing the opening, a projection on the cover for moving the valve to open position when the cover is in closed position, a tank in the bottom of the ice chamber, a water supply pipe connected with one end of the tank, an outlet pipe connected with the other end and having a valve at its outer end, baffles in the water tank for causing water passing therethrough to take a tortuous path.

1,943,939
SERVICE DRAWER MOUNTING FOR RANGES OR STOVES
Carl H. Hoffstetter and Robert F. Hoffstetter, Erie, Pa.
Application January 20, 1932. Serial No. 587,714
5 Claims. (Cl. 45—77)



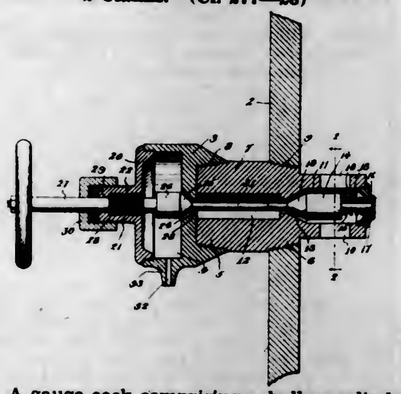
5. In a stove having a front frame, a rear wall and a drawer, a tubular track member for slidably supporting said drawer, supporting means in said rear wall for the rear end of said track member and means on the front frame engaging within the bore of the track member for supporting the front end of the track member.

1,943,940
MACHINE FOR SORTING DOCUMENTS AND THE LIKE PROVIDED WITH STATISTICAL OR OTHER DETERMINATIVE PERFORATIONS
Donald Macadie, London, and Charles Frederic Ratcliff, Strechford, England
Application December 4, 1931, Serial No. 579,074, and in Great Britain January 3, 1931
10 Claims. (Cl. 209—110)



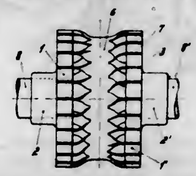
1. A machine for sorting documents and the like provided with determinate perforations, comprising a track having a series of successive interceptors, each movable from an inoperative position, in which it permits a document to pass along the track over the interceptor, to an operative position, in which it intercepts a document in its travel along the track and deflects it therefrom, an endless conveyor arranged above and along said track to engage with the upper faces of documents thereon and having means for engaging with the rear edges of said documents to propel them along the track, means for imparting periodic feeding movements to said conveyor, means for supporting a pile of documents adjacent to the feeding end of said track, marginal stops for engagement with the side edges of the uppermost document of the pile, means for pressing the pile upwards against said marginal stops, a picker for raising the central portion of the uppermost document of the pile while retained by said marginal stops, a reciprocatory gripper for engaging with the raised document, and means for operating said gripper in synchronism with the periodic movements of the conveyor and means for releasing each document removed by the gripper from the pile in a position for engagement with the conveyor, substantially as hereinbefore set forth.

1,943,941
STEAM AND WATER GAUGE COCK
Lewis H. Munn, Birmingham, Ala.
Application July 9, 1931. Serial No. 549,739
2 Claims. (Cl. 277—28)



1. A gauge cock comprising a hollow cylindrical body having an integral transverse diaphragm defining a chamber on one side thereof and an internally threaded socket on the other, the chamber being provided with a drain opening and the diaphragm with a centrally disposed valve seat, a cap forming a closure for the chamber, a threaded nipple having one end thereof engaging the threaded walls of the socket and its other end adapted to be threaded into the wall of a boiler and terminating in a reduced slotted shank, said nipple and shank being formed with a longitudinally extending bore opening into said chamber, the shank being formed with a valve seat, a stem threaded in said cap and extending through said chamber into the bore, said stem carrying a valve head adapted to fit against the seat in the diaphragm, a second valve head slidably mounted in the bore and having a stem contacting with the adjacent end of the first mentioned stem, and a spring to move the second valve head to closed position when the first mentioned stem is moved outwardly out of contact with the stem of the second valve head.

1,943,942
FLEXIBLE COUPLING
Umberto Quintavalle, Milan, Italy, assignor to Fabbrica Italiana Magneti Marelli Società Anonima, Milan, Italy
Application January 12, 1933, Serial No. 651,431, and in Italy January 20, 1932
4 Claims. (Cl. 64—96)



1. A driving coupling for aligned shafts, comprising an end part on each of the opposed ends of said shafts, each of said parts having radial slots, a cylindrical thin metal rim intermediate said parts, tongues integral with and extending from the edges of said rim and twisted to terminate with their respective end portions in radial planes passing through the axis of said rim, the end portions of said tongues of each rim edge being engaged in the radial slots of the said end part of the adjacent shaft.

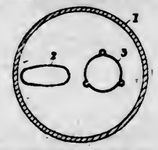
1,943,943
METHOD OF MAKING MALT BEVERAGES
Thomas Whittam, Brockport, N. Y.
No Drawing. Application March 16, 1931
Serial No. 523,085
4 Claims. (Cl. 195—1)

1. A method of making a malt beverage with a permissible alcoholic content which embodies the operation of adding to a water solution of malt extract and yeast an acetic acid solution, and fermenting the mixture in a closed container.

1,943,944
MANUFACTURE OF ROLLED STEEL PRODUCTS
Samuel Whyte, Redhill, Surrey, England
No Drawing. Application October 16, 1931, Serial No. 569,263, and in Great Britain June 26, 1931
1 Claim. (Cl. 148—20)

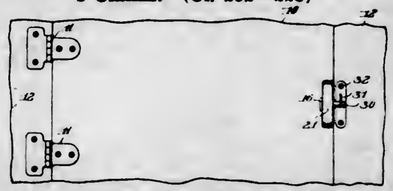
The method of producing a steel rail containing approximately .50 percent carbon, 1% manganese and .50 percent chromium, which comprises using its rolling heat for maintaining a slow cooling through the critical range of temperature of from approximately 900° C. to 600° C., and air cooling the rail below said temperatures.

1,943,945
METHOD OF MANUFACTURING HIGH EMISSIVE CATHODES
Bruno Wienecke, Berlin, Germany
Application March 6, 1930, Serial No. 433,846, and in Germany March 8, 1929
2 Claims. (Cl. 250—27.5)



2. In an electron discharge device, several electrode systems, each of said systems comprising a plate, a grid and a highly emissive cathode, said plates consisting of the same material, having different lengths, a cross-section of the same area and shape and a reaction-mixture attached thereto, which is to be heated by induced currents.

1,943,946
DOORLATCH
Kenneth Brainerd, East Rochester, N. Y., assignor to The Brainerd Manufacturing Co., East Rochester, N. Y., a corporation of New York
Application July 20, 1933. Serial No. 681,297
5 Claims. (Cl. 292—228)



1. A door latch for use without alteration on either right hand or left hand doors, comprising a support secured to a door, and oscillating means pivotally connected to said support for oscillation in either of two opposite directions from a normal position, about an axis spaced from and substantially parallel to the plane of the door, said oscillating means including a laterally extending member for cooperation with a keeper and a pair of oppositely extending substantially symmetrical handle portions readily accessible for oscillating said oscillating means to release said laterally extending member from the keeper.

1,943,947
TIRE MOLD
George W. Bungay, Plainfield, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original application May 6, 1929, Serial No. 360,753. Divided and this application July 11, 1930. Serial No. 467,183
3 Claims. (Cl. 18—44)

1. A mold comprising a pair of complemental members forming a molding cavity, each of said members having an annular channel in the cavity surface thereof, a plurality of metallic matrix sections disposed edge to edge in the channels each of said sections being detachable and re-

movable independently of the others, and a portion of the metal constituting the original edges



of said sections forced into the joints and seams between said sections to substantially obliterate the same.

1,943,948

PRODUCTION OF RAW MATERIALS FOR THE MANUFACTURE OF IRON RED DRY COLORS

James B. Castner, Woodbury, and Raymond W. Powers, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 7, 1930 Serial No. 434,159

12 Claims. (Cl. 134—59)

1. A process for the production of a raw material suitable for calcination to produce iron red dry colors which comprises reacting the sludge formed by the reduction of aromatic nitrocompounds to amines by iron with an amount of sulfuric acid substantially less than the chemical equivalent of the iron present, and setting the resulting mixture.

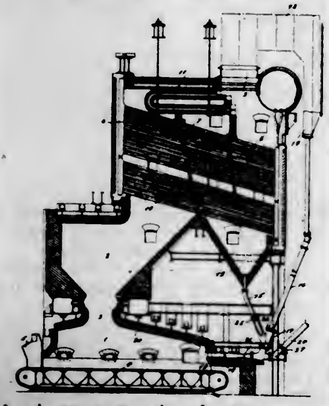
1,943,949

FURNACE

Thomas G. Coghlan, Elizabeth, and Einar A. Johnsen, deceased, late of Mountain Lakes, N. J., by Sigrid A. Johnsen, executrix, Brooklyn, N. Y.

Original application July 21, 1925, Serial No. 44,957. Divided and this application June 12, 1930. Serial No. 460,615

4 Claims. (Cl. 110—165)



1. A steam generator having a combustion chamber, a relatively long combustion arch extending forwardly over the rear part of said combustion chamber, a traveling fuel grate in said combustion chamber extending below said arch, a steam boiler arranged above said combustion chamber, a dust settling chamber below a rear portion of said steam boiler in a position to receive dust separating out from the products of combustion flowing through said boiler from said combustion chamber, and means for returning collected dust from said settling chamber in suspension in an air stream to the space in said combustion chamber between said arch and the rear portion of said grate.

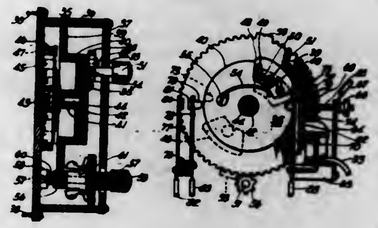
1,943,950

AUTOMATIC CHANGEOVER CONTROL

Joseph F. Cory, Oklahoma City, Okla.

Renewal of application Serial No. 410,670, November 20, 1929. This application March 3, 1933. Serial No. 659,580

5 Claims. (Cl. 88—17)



1. In an automatic changeover control for companion motion picture projecting machines the combination with a peripherally toothed, spring actuated wheel, means contacting the teeth of said wheel for governing the speed of its rotation, means for releasing said wheel to the rotational action of its spring simultaneously with the closing of a motor starting switch of one machine, said wheel having a peripheral outstanding lug for contacting said governing means and stopping its rotation, a circular outstanding central portion upon the face of said wheel, a plate flatly and slidably mounted adjacent the periphery of said outstanding portion, a shutter control switch adjacent said wheel, said plate spring actuated to normally extend beyond said periphery and to contact and close said shutter control switch upon the partial rotation of said wheel for simultaneously opening the shutter of one machine and closing the shutter of the other machine, said plate having an outstanding handle for manually resetting said wheel, said plate arranged to recede within the periphery of said outstanding portion as said wheel is being reset, of means for automatically actuating said motor starting switch and releasing said wheel when a predetermined amount of film has been run off of the reel of the other machine.

1,943,951

FLUSHING VALVE

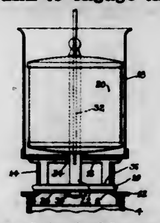
Frank G. Curtin, Medford, Mass.

Application January 30, 1933. Serial No. 654,180

1 Claim. (Cl. 4—56)

A flushing valve comprising a valve seat, a valve disk, a float connected with the valve disk, a float chamber enclosing the float and having a small discharge opening above the valve disk,

and a concentric raised ring formed on the upper surface of the disk to engage the bottom of the



float chamber and to hold a small quantity of water when the valve is moved upwardly away from its seat.

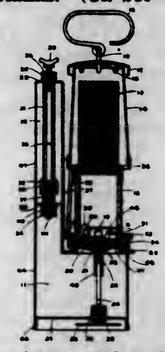
1,943,952

MINER'S SAFETY ACETYLENE LAMP

William Henry Dargue, Newcastle-upon-Tyne, England

Application May 5, 1932, Serial No. 609,511, and in Great Britain May 12, 1932

6 Claims. (Cl. 240—18)



1. A miner's safety acetylene lamp comprising a carbide chamber, a burner mounted thereon, a sealed water chamber above said carbide chamber, a transparent casing surrounding said burner, a chimney above said casing, a safety gauze within said chimney, said transparent casing, chimney and gauze being supported in gastight connection by the carbide chamber, a depending tube in said water chamber extending into the carbide chamber, an air inlet at the upper end of said tube, an adjustable valve within said tube, a water inlet near the bottom of said tube, a depending flange over said water inlet, and means for maintaining a constant effective head of water in said tube until the greater part of the water in the water chamber has been used, comprising an air pipe depending from the top of the sealed water chamber.

1,943,953

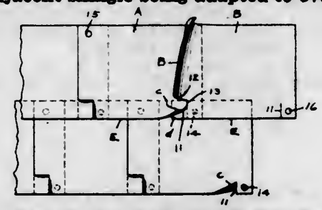
LOCK CORNER SHINGLE

John V. Donahue, Kokomo, Ind., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application November 19, 1931 Serial No. 576,147

4 Claims. (Cl. 108—7)

4. A roof comprising courses of overlapping shingles, each shingle having a pair of integral flaps formed at the opposite lower corners thereof by cuts in said blanks, one of said cuts extending inwardly from one side of said blank and the other cut extending inwardly from the lower edge adjacent the opposite side of said blank, the bottom-cut flap of one shingle being adapted to be nailed to a roof, and the side-cut portion of the adjacent shingle being adapted to overlap the



nailed side of said first-named shingle with its side-cut flap underlaying said first-named shingle inwardly of said nailed flap whereby a double overlapping interlock which seals said nailed flap against seepage of water thereto is provided.

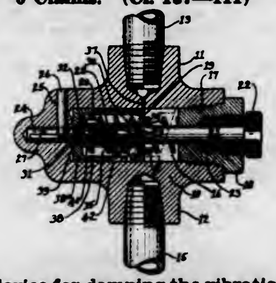
1,943,954

PRESSURE GAUGE DAMPING DEVICE

Loren Durner, Waterbury, Conn.

Application August 7, 1931. Serial No. 555,730

6 Claims. (Cl. 137—111)



3. In a device for damping the vibrations transmitted from a hydraulic pressure system, a casing having an interior chamber, a spring-pressed piston slidable within said chamber, said chamber having inlet and outlet ports in its circumference and having a transverse groove therein in alinement with said outlet port, said piston serving to obstruct the flow from the inlet to the outlet to a variable degree depending upon its position within said casing, means for causing the piston to move in a direction to increase the obstruction of the flow when the pressure in the system increases, and means to cause said spring to rapidly move the piston in a direction to reduce the obstruction when the pressure in the system decreases.

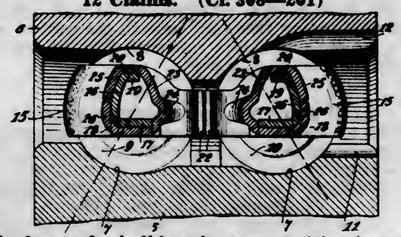
1,943,955

BALL BEARING CAGE

Gustav Ege, Stamford, Conn., assignor to Norma-Hoffman Bearings Corporation, Stamford, Conn., a corporation of New York

Application May 10, 1932. Serial No. 610,339

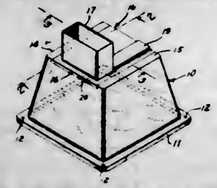
12 Claims. (Cl. 308—201)



1. A cage for ball bearings, comprising two ring sections having spaced ball receiving pockets, and

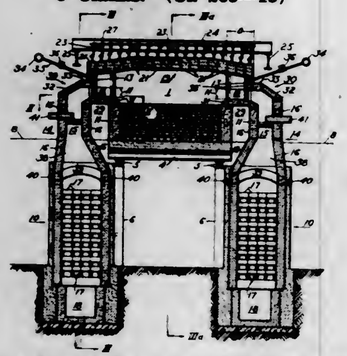
means between adjacent pockets including mutually co-acting parts on said ring sections forming a rigid connecting structure of substantially ovoid form in radial cross section.

1,943,956
PACKAGE OPENER
Karl Eisele, Newark, N. J.
Application August 10, 1931. Serial No. 556,060
2 Claims. (Cl. 131—59)



1. In apparatus of the character described, in combination, a supporting stand having a track upon the top thereof, a knife mounted within said track and having its edge running substantially crosswise thereof, a cigarette package receptacle mounted within said track and adapted to slide relative to said supporting stand, the bottom of said receptacle being open to expose one end of said package to said knife edge, and resilient means acting to force said receptacle away from said knife edge.

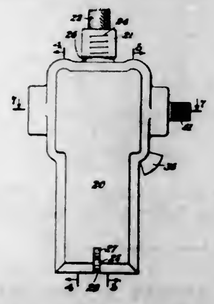
1,943,957
FURNACE
Ray S. Gedard, Pittsburgh, Pa.
Application September 15, 1932
Serial No. 633,277
8 Claims. (Cl. 263—15)



1. In a furnace having a combustion chamber provided with a port, that is horizontally continuous throughout substantially a horizontal dimension of said chamber, for the admission of an element essential to combustion, a conduit connected to said port having a passage-way substantially as wide as the port, and partial partitions in the passage-way terminating at said port in edges extending from the base to the roof of said port for causing said element to flow in well defined channels to said port.

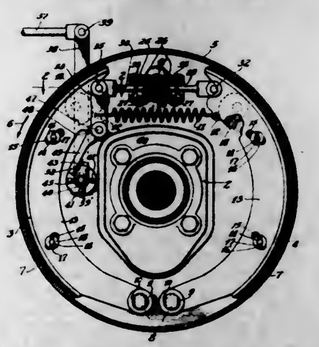
1,943,958
ELECTRIC PLUG CONSTRUCTION
Albert E. Grant, New York, N. Y., assignor to Kerant Corporation, New York, N. Y., a corporation of New York
Application June 7, 1933. Serial No. 674,684
9 Claims. (Cl. 200—51)

1. An attachment plug comprising a casing formed in two portions linked together at one end, said portions complementing each other to form a neck-like inlet passage in communication with the casing at its opposite end, and a helical spring wire cable guard adapted to removably



surround and externally grip the walls of said passage to hold the casing portions in assembled relation.

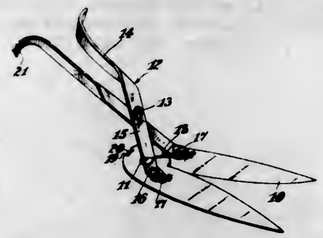
1,943,959
HYDRAULIC BRAKE
Joseph R. Heidloff, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif., a corporation of California
Application January 20, 1930. Serial No. 422,002
5 Claims. (Cl. 188—106)



1. In a brake mechanism, the combination of a drum with a forward brake shoe and a reverse brake shoe, mechanism operable for forcibly pressing said brake shoes against said drum, comprising a cylinder, a piston in each end of said cylinder adapted to be actuated by fluid pressure within said cylinder, piston rods operably connecting each of said pistons with one of said brake shoes for actuating the same, an arm pivotally mounted intermediate its ends on one of said brake shoes, and having one end operably connected to the other brake shoe through the medium of said piston rods and means for applying force to the other end of said arm.

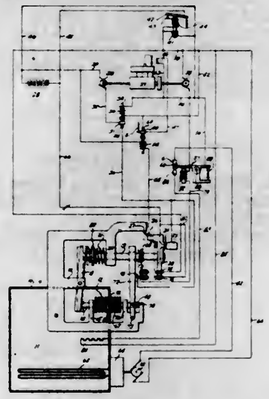
1,943,960
GRASS SHEARS
Ferdinand G. Heumann, Great Neck, N. Y.
Application January 5, 1932. Serial No. 584,795
4 Claims. (Cl. 30—11)

4. Shears comprising a pair of blades pivotally connected together at one end of each thereof; a pair of handle members pivotally connected, each to a blade forwardly of the blade fulcrum, said handle members extending angularly upwardly from said blades to cross each other; and means for pivotally securing said handle members together at their points of crossing, the han-



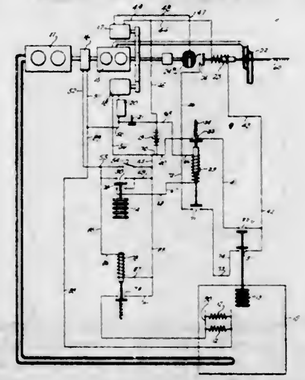
dle members being bent above their fulcrum to lie substantially parallel to the blades and being bent toward each other to form one-handed gripping members.

1,943,961
TEMPERATURE CONTROL
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application December 4, 1929. Serial No. 411,419
25 Claims. (Cl. 236—1)



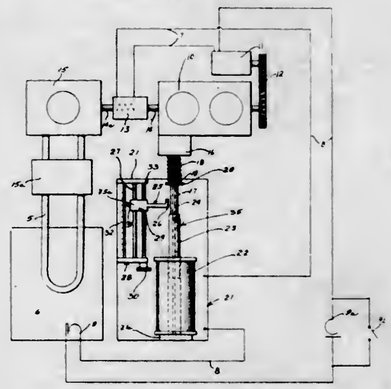
1. In apparatus for temperature regulation, in combination, a room whose temperature is to be heated, an electrical heating unit for said room, a generator for supplying current for said heating unit, an internal combustion engine for driving said generator, an electrical starting motor for said engine, a source of current for said starting motor, an electro-magnetic switch in the circuit of said starting motor and said source of current and adapted to remain closed until energized, the winding of said switch being connected across said generator, an electro-magnetic switch in the circuit of the ignition of said engine and adapted to remain closed until actuated, a switch so disposed as to close the circuit between said source of current and said starting motor when in one position and to close the circuit between said last-mentioned electro-magnetic switch and said source of current when in another position, and thermostatic means associated with said room for controlling the position of said last-mentioned switch according to the temperature of said room.

1,943,962
REFRIGERATION
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application May 9, 1930. Serial No. 450,976
26 Claims. (Cl. 236—1)



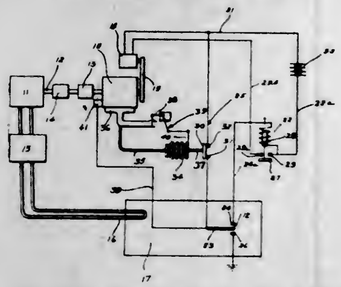
10. In a system for conditioning a space, refrigerating apparatus including a compressor, an internal combustion engine operating said compressor, and means jointly controlled by the temperature within the space and the temperature outside the space for controlling the operation of said engine, said outside temperature being unaffected by said apparatus.

1,943,963
REFRIGERATION APPARATUS
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application September 20, 1930
Serial No. 483,195
19 Claims. (Cl. 62—4)



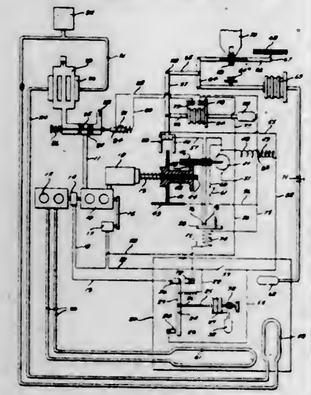
1. In a temperature regulating system, in combination, enclosing means for medium whose temperature is to be regulated, a refrigerating unit for the interior of said enclosing means, motive means for an element of said refrigerating unit, a clutch disposed between said motive means and said element, temperature responsive means for controlling the speed of said motive means and controlling said clutch.

1,943,964
REFRIGERATION SYSTEM
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application September 20, 1930
Serial No. 483,196
15 Claims. (Cl. 62—4)



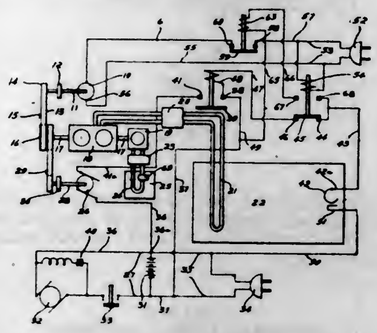
1. In refrigeration apparatus, in combination, means adapted to contain a medium whose temperature is to be governed, a refrigerating unit for said means, motive means adapted to actuate an element of said unit, a starting member for said motive means, thermostatic means positioned in the circuit of a source of current and said starting member for controlling the actuation of said member, and means disposed in said circuit adapted to be actuated by variation of pressure from said motive means for regulating the actuation of said member.

1,943,965
TEMPERATURE CONTROLLING APPARATUS
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application September 26, 1930, Serial No. 484,541
Renewed September 20, 1933
31 Claims. (Cl. 257—3)



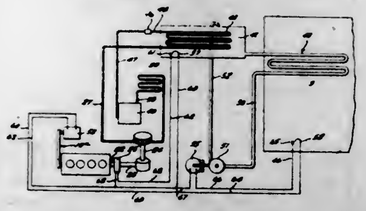
1. In a temperature regulating system, in combination, motive means for refrigerating unit, speed controlling means for said motive means adjustable by relative pressure, means for exerting relative pressure on said speed controlling means by direction of rotation, a motor for rotating said pressure-exerting means, and temperature-responsive means for controlling the direction of rotation of said motor.

1,943,966
REFRIGERATION SYSTEM AND APPARATUS
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application October 23, 1930. Serial No. 490,598
17 Claims. (Cl. 62—117)



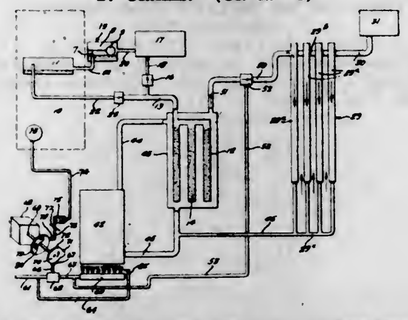
1. In refrigeration apparatus, in combination, a means forming a space to be cooled, a refrigeration unit for said space, an electric motor for driving an actuated element of said unit, a second electric motor for driving said element of said unit, a thermostatic switch in the circuit of one of said motors, and a means responsive to the completion of the circuit to the other motor for making ineffective the circuit to the said one motor and for inserting said switch in the circuit of said last-mentioned motor.

1,943,967
REFRIGERATION
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application December 3, 1930. Serial No. 499,668
7 Claims. (Cl. 62—117)



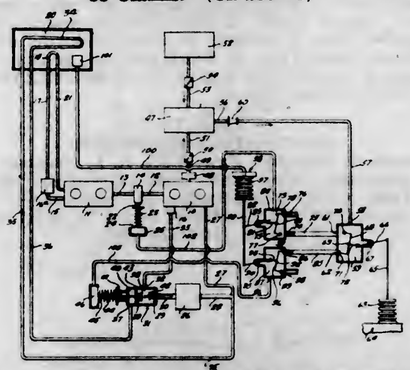
1. In a refrigeration system for a vehicle, in combination, a vehicle, a chamber in said vehicle whose temperature is to be regulated over a period of time, means containing a liquid refrigerant, means forming a path of circulation between said containing means and said chamber, pumping means in said path, motive means for said pump, thermostatic means for controlling said motive means in response to the temperature of said chamber, a refrigeration unit for said containing means, an internal combustion engine adapted to run continuously for said period of time for driving an element of said refrigeration unit, a clutch member disposed between said engine and said element, and means for controlling the operation of said clutch in response to the temperature of said refrigerant in said container.

1,943,968
REFRIGERATION SYSTEM
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application December 22, 1930
Serial No. 503,997
17 Claims. (Cl. 62—5)



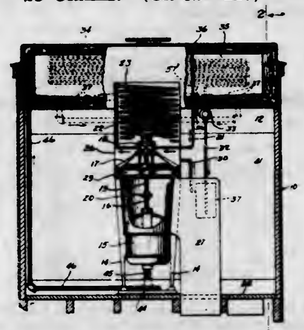
3. In a refrigeration system, in combination, a chamber whose temperature is to be regulated, a refrigeration unit for said chamber having means for releasing a refrigerant when heated and taking up said refrigerant when cooled, means for passing a cooling liquid into thermal contact with said first mentioned-means to cool the latter, means for cooling said liquid, means adapted to impart heat to said first-mentioned means, and thermostatic means responsive to the temperature of said chamber for controlling said cooling means and said last-mentioned means.

1,943,969
TEMPERATURE REGULATING SYSTEM AND APPARATUS
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application January 3, 1931. Serial No. 506,347
33 Claims. (Cl. 257—3)



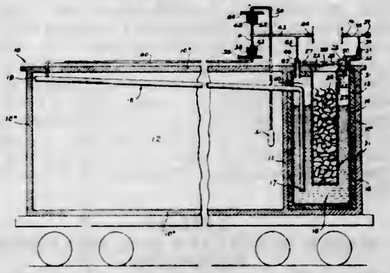
1. In a temperature regulating system, in combination, means forming a space whose temperature is to be regulated, a refrigeration unit for said space, motive means for driving an element of said refrigeration unit, means for passing a fluid into thermal contact with said motive means to absorb heat therefrom, means for transferring heat from said fluid to said space, and means responsive to the temperature inside of said space and outside of said space for controlling said last mentioned means.

1,943,970
ART AND APPARATUS FOR COOLING
George E. Hulse and John D. Strobell, New Haven, Conn., assignors to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Original application October 5, 1922, Serial No. 592,483. Divided and this application January 15, 1931. Serial No. 508,834
25 Claims. (Cl. 62—117)



1. In apparatus of the general nature of that herein described, in combination, heat-abstracting means adapted to cool a refrigerating fluid, a conduit for said cooled fluid, a source of motive power which is intermittently operated and arranged to drive said heat-abstracting means, a reservoir positioned at a higher level than and connected to said conduit for storing cooled fluid during the operative intervals of said heat-abstracting means and adapted thereby to permit a flow of said fluid through said conduit during intervals of operation and inactivity of said source of motive power, a container for receiving said fluid after its passage through said conduit, and means at the end of said conduit for predetermining the rate of flow of fluid through said conduit.

1,943,971
REFRIGERATION APPARATUS AND METHOD OF REFRIGERATING
George E. Hulse, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application October 20, 1932. Serial No. 638,677
21 Claims. (Cl. 62—91.5)

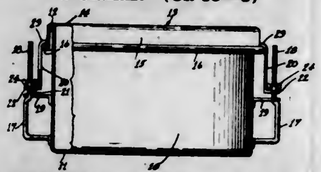


11. The herein described art which consists in cooling a liquid brine in a container by evaporating solid carbon dioxide in thermal contact therewith, and intermittently utilizing the gaseous refrigerant evolved therefrom to build up a pressure sufficient to force said brine into a pipe leading into thermal contact with a space whose temperature is to be regulated.

1,943,972
CELLULOSE DERIVATIVE COMPOSITION
Emmette F. Izard, Elsmere, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 20, 1932
Serial No. 612,627
13 Claims. (Cl. 106—37)

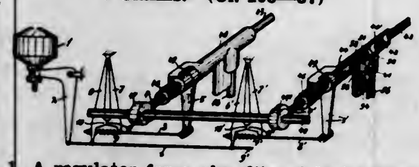
2. A composition comprising a cellulose derivative and, as a plasticizer therefor, an ester of an aryloxyethoxyethanol.

1,943,973
COOKING UTENSIL
Filomeno Jamias, Chicago, Ill.
Application January 11, 1933. Serial No. 651,085
2 Claims. (Cl. 53—8)



1. An invertible cooking utensil for non-liquid foods comprising a receptacle having a bottom and a removable cover each constituting a heat applying surface during the cooking operation, said receptacle and cover defining an unobstructed cooking chamber through which the contents can be transferred bodily by gravity from one end of the chamber to the other to relatively inverted relation with reference to the source of heat upon inverting the utensil, and means for securing said cover to said receptacle to prevent displacement of the former during inversion of the receptacle and subsequent use in inverted position.

1,943,974
CONTROL MECHANISM FOR FUEL PUMPS
Hugo Junkers, Dessau, Germany
Application July 20, 1929, Serial No. 379,740, and in Germany July 27, 1928
7 Claims. (Cl. 103—37)

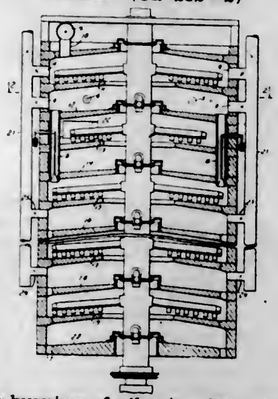


1. A regulator for a plurality of fuel-injection pumps for internal combustion engines comprising a control, means for varying the delivery of each pump, primary members positively connected to said control, secondary members operatively connected to said delivery-varying means, means effecting a positive connection of said primary and secondary members in one direction, and yielding means for connecting said primary and secondary members in the opposite direction.

1,943,975
WATER REPELLENT SIZE FOR FIBER PRODUCTS
Elbert C. Lathrop and Fergus A. Irvine, Chicago, Ill., assignors to The Celotex Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 6, 1930
Serial No. 493,913
8 Claims. (Cl. 92—21)

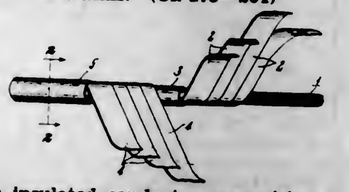
1. The method of controlling the coloring of fiber products wherein, in integrally sizing fibers to cause the products made therefrom to be water repellent, wherein as the size precipitant, ferric salts consisting principally of ferric chloride are added in varying quantities depending upon the shade of coloring desired, from the minimum for sizing to ten per cent by weight of dry fibers treated.

1,943,976
PROCESS OF REVIVIFYING MINERAL ABSORBENTS
George R. Lewers, Elizabeth, N. J.
Original application January 16, 1931, Serial No. 509,101. Divided and this application October 28, 1931. Serial No. 571,507
4 Claims. (Cl. 252—2)



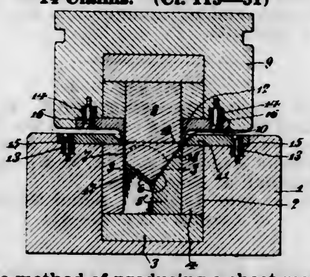
1. In the burning of oil saturated mineral absorbents to recover the mineral absorbent for reuse, the improvement which comprises passing the oil saturated absorbent through a region in which limited combustion occurs and in which vaporization of a part of the contained oil from the absorbent is effected without combustion of this part of the contained oil and limiting the air available for combustion in this region to avoid combustion of this part of the contained oil and then passing the absorbent thus partially freed from its original oil content through a separate region which is continuously maintained isolated from the region in which reducing conditions prevail and in which burning of the absorbent is completed and in which oxidizing conditions are maintained.

1,943,977
INSULATED CONDUCTOR
Joseph A. Kennedy, Pawtucket, R. I., assignor to Anaconda Wire and Cable Company, New York, N. Y., a corporation of Delaware
Application May 19, 1930. Serial No. 453,716
2 Claims. (Cl. 173—264)



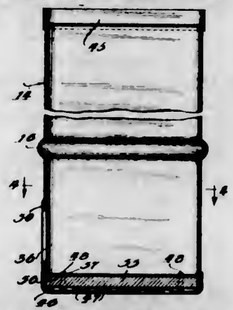
1. An insulated conductor, comprising a central conducting core, a plurality of independent varnish impregnated wrappings of paper, the innermost of which directly engages the core, said wrappings being adhesively united, and an outer finish coating of lacquer on an outermost wrapping, the said wrapping being non-adherent on the core whereby the same can be easily stripped therefrom.

1,943,978
ART OF PRODUCING SHEET METAL REFLECTORS
Richard W. Luce, Mountainside, N. J., assignor to American Gasaccumulator Company, Elizabeth, N. J., a corporation of New Jersey
Application September 19, 1931
Serial No. 563,744
14 Claims. (Cl. 113—51)



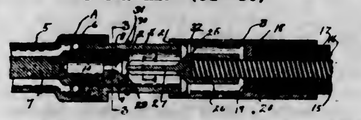
1. The method of producing a sheet metal light reflector which comprises the formation of a light reflecting surface by the application of pressure to the sheet metal, and thereafter stretching the sheet metal to remove unevenly distributed internal stresses.

1,943,979
REFRIGERATOR CAR
John Lundvall, Chicago, Ill., assignor to Equipment Specialties Company, Chicago, Ill., a corporation of Illinois
Application December 31, 1930
Serial No. 505,677
6 Claims. (Cl. 220—72)



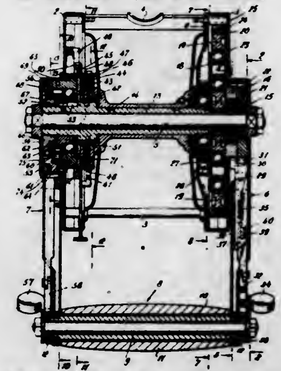
1. A refrigerating tank adapted for use in refrigerator cars, constructed from sheet iron and assembled by welding and having fittings welded thereon, and having means welded to the iron bottom for securing an internal wood bottom, the whole metal assembly being galvanized after assembly.

1,943,980
SPINDLE CONNECTER
Arthur W. Mall, Chicago, Ill.
Application June 22, 1932. Serial No. 618,685
3 Claims. (64—30)



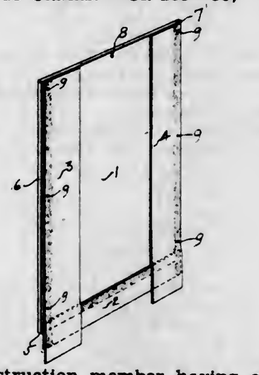
1. The combination with a flexible drive shaft having a rigid casing at its driving end and a flexible rotatable core extending into the casing, of an interchangeable attachment for the flexible drive shaft including a tubular sleeve for insertion in the casing, a rotatable spindle shaft projecting partially into the outer sleeve provided with a socket, and a drive tip for the core rigidly connected with the core extending beyond the casing, the core tip and the socket being provided with mating longitudinal ribs and grooves on their opposite faces, the socket having a flared entrance mouth and the core tip being provided with a wedge-shaped leading end.

1,943,981
FISHING REEL
Hyla F. Maynes, North Tonawanda, N. Y., assignor of one-half to Emma C. Maynes, North Tonawanda, N. Y.
Application March 13, 1933. Serial No. 660,494
11 Claims. (Cl. 242—84.5)



1. In a fishing reel, a spool, means for mounting the spool on a pole, a swinging crank for rotating the spool, a transverse crank handle symmetrically mounted with respect to the pole for swinging the crank and acting as a hand hold for supporting the pole, and means for transforming both the inward and outward swinging movements of the handle into a unidirectional rotation of the spool.

1,943,982
STRUCTURE
Marshall K. McCosh, Reisterstown, Md.
Application March 13, 1933. Serial No. 660,586
15 Claims. (Cl. 189—36)



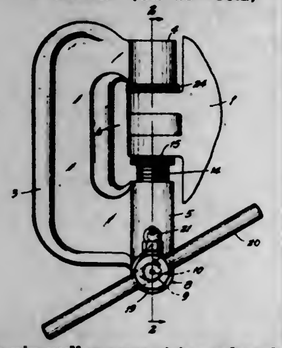
3. A construction member having a piece of sheet metal lying against said member and secured contiguous to an edge of said member along

a line parallel to and contiguous to an edge of said piece, the said piece not extending beyond the contiguous edge limit of the said member widthwise of said piece, whereby said piece may be formed over a joint to cover same by displacement of said piece along the line of attachment.

1,942,963
HINGE PIN PULLER

Joseph G. Meiners, Normandy, Mo., assignor to Champion Anti-Rattler Co., Inc., St. Louis, Mo., a corporation of Missouri

Application December 8, 1932. Serial No. 646,263
1 Claim. (Cl. 29—86.1)

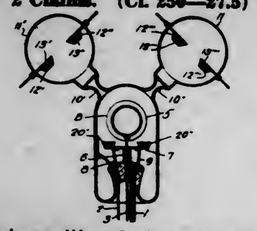


A hinge pin puller comprising a hand grip portion having jaws at its ends, one of said jaws having an opening extending therethrough, a hinge pin receiving sleeve removably mounted in said opening and provided at its hinge engaging end with a stop collar adapted to abut against the adjacent face of said jaw, the other of said jaws being provided with a high pressure cylinder, a sleeve threaded into said high pressure cylinder in axial alinement with said first mentioned sleeve, a piston including a head disposed in said high pressure cylinder and a hinge pin engaging stem slidable in said threaded sleeve, said threaded sleeve being provided in its outer end with a hinge engaging collar and the opening in said sleeve being beveled at the collar end thereof, and a coil spring sleeved on the stem of said piston between the head thereof and the inner end of said threaded sleeve, said other jaw having a lateral extension disposed at an angle of substantially ninety degrees to said hand grip portion and provided with a primary cylinder communicating at its inner end with said high pressure cylinder.

1,943,984
PHOTO-ELECTRIC TUBE

Theodorus Hendrik Nakken, New York, N. Y., assignor to Nakken Patents Corporation, a corporation of Delaware

Application May 27, 1930. Serial No. 456,062
2 Claims. (Cl. 250—27.5)

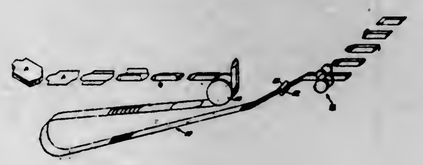


2. A photosensitive device comprising a vacuum-tight container; an anode therein; an anode lead-in extending conductively from without said container into connection with said anode; a cathode within said container; a cathode lead-in extending from without said container conductively into connection with said cathode, said cathode comprising on its surface fronting said anode a plurality of layers of photo-electric elements, each under-layer of which layers differs from the next superimposed layer by one displacement as to its group number and series number in the periodic system of elements.

1,943,985
METHOD AND MACHINE FOR MAKING ENVELOPES OF THE OPEN END TYPE

Abraham Novick, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a corporation of New York

Application June 12, 1930. Serial No. 460,559
16 Claims. (Cl. 93—62)

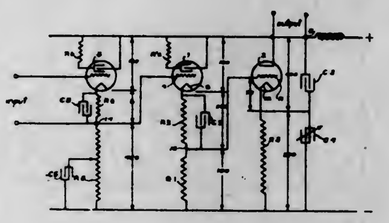


1. In an envelope making machine, means for holding a stack of blanks, means for feeding the blanks therefrom, means for gumming and folding the side flaps, means for thereafter gumming the sealing flaps, means for drying the latter and means for completing the folding operations including the folding of the gummed sealing flaps.

1,943,986
RESISTANCE COUPLED AMPLIFIER

Alexander Nyman, Dobbs Ferry, N. Y., assignor to Radio Patents Corporation, New York, N. Y., a corporation of New York

Application February 12, 1931. Serial No. 515,154
11 Claims. (Cl. 179—171)

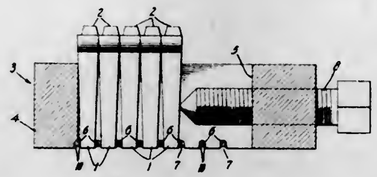


1. In a resistance coupled amplifier comprising two or more cascade connected thermionic valves, each with cathode, anode and at least one grid, a circuit including in series a coupling element, said cathode and said anode, a direct coupling connection from said coupling element to the grid of the succeeding valve, means including impedance elements for adjusting the impedance on either side of said cathode to have the same proportion in each of the valve circuits and thereby compensate for pulsations in supply potential.

1,943,987
PRINTING

John J. O'Connell, Dayton, Ohio, assignor to International Envelope Corporation, Dayton, Ohio, a corporation of Delaware

Application November 13, 1931
Serial No. 574,758
7 Claims. (Cl. 101—391)



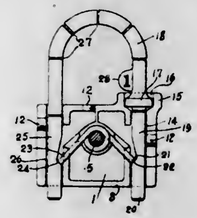
5. A type chase for type slugs of varying thickness, comprising a frame, a series of parallel spacers uniformly spaced and of uniform thickness extending across the frame in the lower portion thereof, and means carried by the frame above the spacers for clamping the slugs in the frame.

7. In combination, a type chase having a slight longitudinal taper and a holder having an opening of substantially the same taper for receiving the chase, the chase and holder having co-acting abutment surfaces for accurately arresting the chase in its operative position and also having co-operative shoulders for preventing movement of the chase transversely of the plane of the holder, the chase being adapted to fit the holder opening snugly at a short distance outward from its operative position in the holder and to be wedged to its operative position.

1,943,988
LOCK

Edward S. Peake, Westerville, Ohio, assignor to The Kilgore Manufacturing Company, Westerville, Ohio, a corporation of Ohio

Application March 22, 1932. Serial No. 600,467
10 Claims. (Cl. 292—330)

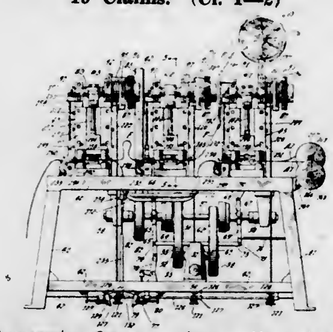


1. In combination, a permanently assembled lock casing, locking means thereon adapted to receive and retain a hasp in said casing, a sleeve on the casing forming a socket, and a lock hasp adapted to be inserted in said casing to be locked therein, and shoulder means on said hasp to fit in the socket to prevent the removal of the hasp completely from the lock and its locking means even though the lock hasp is broken, said socket having a cone-shaped bottom to aid in positioning the hasp.

1,943,989
REENFORCING CINEMATOGRAPH FILM

Niels Pedersen, Marion, Pa., assignor to Armoured Films Limited, London, England, a corporation of Great Britain

Application December 23, 1930
Serial No. 504,302
15 Claims. (Cl. 1—2)

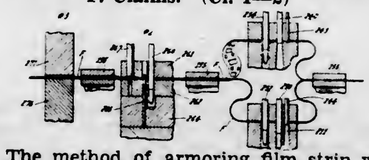


1. Apparatus for armoring motion picture film strip, comprising in combination, a plurality of press shafts, a clutch-brake for each, a clutch shaft operating all of said press shafts, low speed and high speed clutches on said clutch shaft, foot pedals which when pushed down engage the clutches and disengage the brakes of said clutch-brake devices, a foot pedal which when pushed down will operate all of said first-mentioned pedals together, a foot pedal which when pushed down will disengage said low speed clutch and engage said high speed clutch, latch means for holding said pedals down, and a hand lever for releasing said pedals from said latches.

1,943,990
REENFORCING CINEMATOGRAPH FILM

Niels Pedersen, Marion, Pa., assignor to Armoured Films Limited, London, England, a corporation of Great Britain

Application May 28, 1931. Serial No. 540,563
17 Claims. (Cl. 1—2)



1. The method of armoring film strip which comprises, forming attaching elements on the armor strip at unit lengths which are determined and fixed by and from corresponding unit lengths on the film strip which have theretofore been established, forming mating attaching elements on the film strip, the lengths on the armor strip being made the same as the corresponding lengths on the film strip, and securing the strips together at unit distances with the matched lengths imposed upon each other.

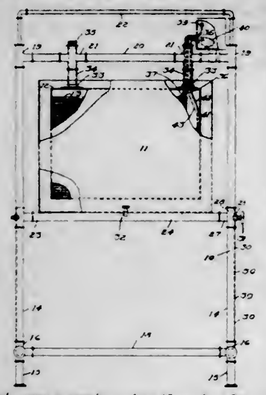
1,943,991
MILK COOLER

Arthur Vernon Phillips, London, Ontario, Canada, assignor to Kelvinator Corporation, Detroit, Mich., a corporation of Michigan

Application February 3, 1931, Serial No. 513,175, and in Canada January 10, 1931
8 Claims. (Cl. 62—141)

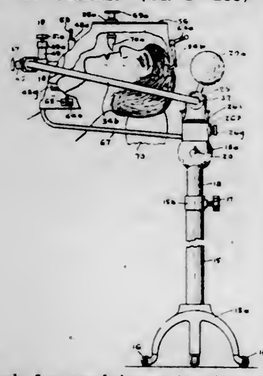
2. A milk cooler comprising a supporting frame, a container for the milk to be cooled

supported by the frame, a tank disposed within the container and suspended from the frame, a



refrigerant evaporator in the tank, and means for lowering the container away from the tank.

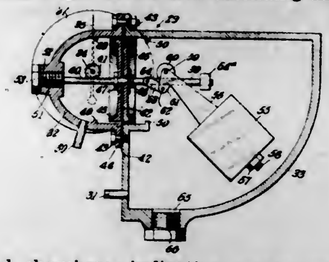
1,943,992
FACE STEAMING MASK
Henry Riesenberg, Minneapolis, Minn.
Application September 5, 1931. Serial No. 561,386
17 Claims. (Cl. 4—165)



1. A mask for applying a treating medium to the face comprising a rigid elongated oval member adapted to be positioned over the face, a skirt portion extending around and depending from said member formed of a thin flexible material adapted to engage the face to form a seal, said skirt being connected in steam-tight manner to said member and means holding said skirt against the face and yieldable resiliently outward.

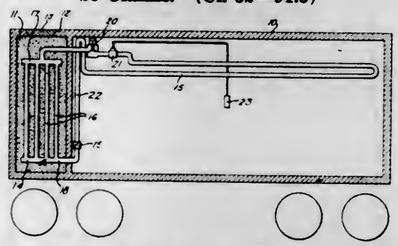
1,943,993
DIFFERENTIAL METER
Elon P. Stewart, Syracuse, N. Y., and Louis H. Frost, Cleveland, Ohio, assignors to Cement-Gun Company, Inc., a corporation of New York
Original application May 9, 1931, Serial No. 536,233. Divided and this application September 10, 1932. Serial No. 632,510
2 Claims. (Cl. 73—167)

2. In a device of the character described, two casings having a substantially horizontally disposed passage therebetween and each of said casings having an inlet to admit fluid thereto so that one of said casings is a higher pressure casing and the other is a lower pressure casing, a substantially vertically disposed diaphragm device extending across said passage, a substantially horizontally disposed rod connected with said diaphragm device and extending into both



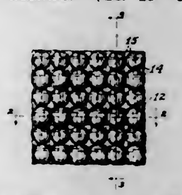
of said chambers, indicating means connected with said rod to move directly in accordance therewith, a weighted arm in the low pressure chamber pivoted above said rod and a link pivoted to said rod and to said lever beneath the pivot of the arm.

1,943,994
REFRIGERATING SYSTEM FOR VEHICLES AND THE LIKE
John D. Strobell and George E. Hulse, New Haven, Conn., assignors to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application December 30, 1929
Serial No. 417,410
26 Claims. (Cl. 62—91.5)



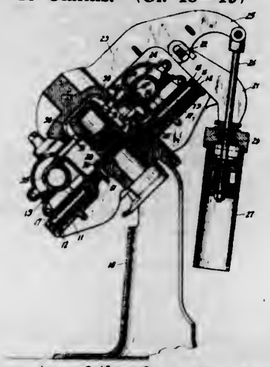
1. In refrigerating apparatus, in combination, a condenser containing a volatile liquid, an evaporator communicating with said condenser, said condenser being cooled by a refrigerant having a temperature below the temperature to be maintained by said evaporator, an adjustable check valve controlling the passage of vapor from said evaporator to said condenser, and thermostatic means controlling the passage to said valve.

1,943,995
GLASS CONSTRUCTION
Herbert W. Weld, Chicago, Ill.
Application April 3, 1930. Serial No. 441,253
12 Claims. (Cl. 49—92)



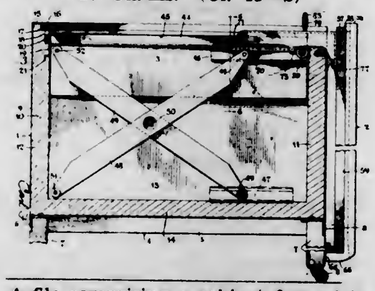
1. A glass construction comprising the combination of a first thickness of glass of a first refractive index, and a second thickness of glass of a different refractive index fused on one of its surfaces to a surface of said first thickness, each of said thicknesses having on its inner surface projections and indentations fitting indentations and projections respectively of the inner surface of the other of said thicknesses, one of said thicknesses having light-gathering conformations on a part of its external surface leaving the remainder of its external surface smooth.

1,943,996
APPARATUS FOR MAKING INFLATABLE ARTICLES
Thomas H. Williams, Akron, Ohio, and Charles S. Moomy, Carlisle, Pa., assignors to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application May 4, 1931. Serial No. 534,836
10 Claims. (Cl. 18—19)



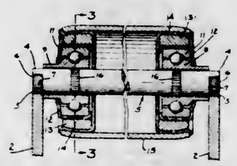
4. In apparatus of the character described, the combination of a mold formed with a cavity for receiving the work and having an aperture through its wall to accommodate a valve stem of the work, said mold having its wall recessed about said aperture, a pair of pivotally mounted, arcuate gripper jaws having their free ends positioned in said recess and adapted to grip said valve stem exteriorly of the mold, an adjustable support upon which said gripper jaws are pivotally mounted, said support being inclined with relation to the plane of the work, and a right and left hand screw for operating the gripper jaws.

1,943,997
FILING CABINET
Carl F. Wolters, Marietta, Ohio, assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application February 7, 1930. Serial No. 426,679
17 Claims. (Cl. 45—2)



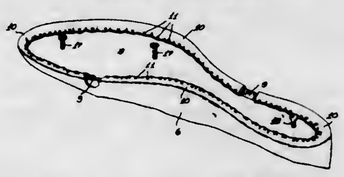
1. A file comprising a cabinet formed to provide a compartment open at one side, a closure for the open side of said cabinet slidable into open and closed positions and movable to lie adjacent a side of said cabinet, arms mounted on and extending laterally from said closure, a tray movable in said compartment, said arms engaging and moving said tray into the open end of said compartment as the closure is moved from closed position to the position adjacent the side of said cabinet.

1,943,998
CONVEYER
Charles A. Adams, Ellwood City, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania
Application August 13, 1930. Serial No. 474,984
4 Claims. (Cl. 193—37)



1. A conveyer roller comprising a tubular roller having an antifriction bearing adjacent each end thereof, said bearings each being an independent completely assembled unit structure, an axle extending through said bearings, said axle and bearings having detachable integrally formed interengaging means to prevent relative rotation between said bearings and axle, and said axle being longitudinally removable from said bearings and roller.

1,943,999
PULL-OVER
Thomas R. Atkins, Cliftondale, Mass.
Application February 1, 1932. Serial No. 590,259
9 Claims. (Cl. 36—1)

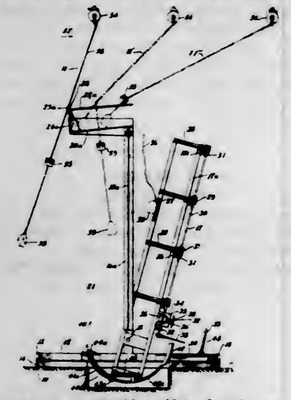


1. In a device for displaying shoes, the combination with a last provided with a depressed under surface, a prepared shoe upper secured to said last, and an outsole, of means including a plate secured to the outsole and fitting over said surface for holding the outsole in contact with the shoe upper to give the assembled parts the appearance of a finished shoe regardless of the thickness of the material of the prepared shoe upper.

1,944,000
CARGO HANDLING APPARATUS FOR AIRCRAFT AND THE LIKE
Manuel Castro, Canton, Ohio
Application June 16, 1930. Serial No. 461,409
14 Claims. (Cl. 258—1)

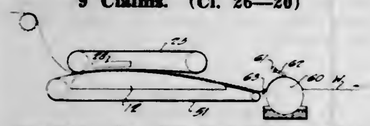
1. Ground elements for cargo handling apparatus for aircraft and the like including a base, a frame extending upwardly from the base and mounted for movement thereon about a horizontally extending axis, means on the frame for

receiving discharged cargo, the cargo receiving means including a flexible sheet member, and



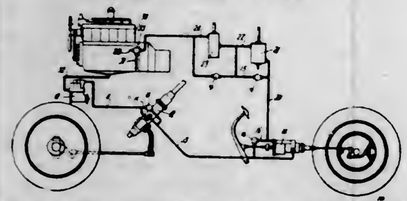
yielding means connecting the sheet member with the frame.

1,944,001
APPARATUS FOR TREATING FABRICS
Sanford L. Cluett, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York
Original application April 18, 1930, Serial No. 445,300. Divided and this application April 16, 1932. Serial No. 605,649, and in Australia August 23, 1930
9 Claims. (Cl. 26—20)



1. Apparatus for shrinking fabric webs, comprising in combination, means for moistening the web, means for forming undulations in the web, means for applying pressure generally normal to the web to flatten the undulations, and means for applying heat to the web to dry it.

1,944,002
MULTIPLE HYDRAULIC SYSTEM
Francis W. Davis, Waltham, Mass.
Application January 22, 1931. Serial No. 510,402
1 Claim. (Cl. 60—52)



In an automotive carrier, a power system comprising a fluid circuit including a plurality of fluid operable motors and a power pump connected in series, a control valve for each motor, a by-pass around each motor and its control valve, a relief valve in each said by-pass set to be opened by a pressure difference between the high and low pressure sides of the motor exceeding the maximum operating pressure of the motor, said system including a by-pass around each said motor with a check-valve adapted to be opened by any excess of pressure in the discharge end of the motor over the pressure in the supply end thereof.

1,944,003
ELECTRIC CABLE
William A. Del Mar, Greenwich, Conn., assignor to Habirshaw Cable and Wire Corporation, New York, N. Y., a corporation of New York
Application January 14, 1932. Serial No. 586,567
9 Claims. (Cl. 173—266)



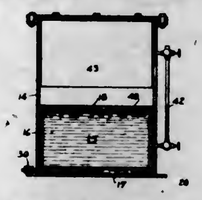
1. An electric cable having a shield and a sheath and provided with spaced helically wound longitudinally disposed strips between the shield and sheath providing longitudinal channels between the shield, the sheath and the strips, and a binder around the strips, one of the members of the cable having projections entering said strips to resist displacement of the latter and prevent change in the width of the channels.

1,944,004
ELECTRIC CABLE
William A. Del Mar, Greenwich, Conn., assignor to Habirshaw Cable and Wire Corporation, New York, N. Y., a corporation of New York
Application March 16, 1932. Serial No. 599,266
1 Claim. (Cl. 173—266)



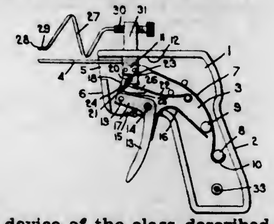
An electric cable comprising an insulated conductor, spaced strips extending lengthwise outside of the insulated conductor providing channels between the strips along the insulated conductor, a binder around the strips, and a sheath around the binder, said strips having projections engaging the binder to prevent displacement of the strips, the binder being provided with a fabric mesh to engage the projections from the strips.

1,944,005
PRESSURE RESERVOIR WITH FABRIC BAG
William A. Del Mar, Greenwich, Conn., assignor to Habirshaw Cable and Wire Corporation, New York, N. Y., a corporation of New York
Application February 21, 1933. Serial No. 657,829
3 Claims. (Cl. 137—71)



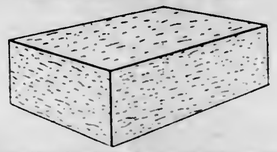
1. A variable capacity reservoir for feeding oil to high tension oil filled electric cables, said reservoir comprising a bag with flexible fabric sides and rigid ends, and connected to the oil filled cable, and a gas chamber surrounding the reservoir containing sufficient oil to submerge the reservoir.

1,944,006
IMPACT-PRODUCING IMPLEMENT
Louis S. Hanflig, Chelsea, Mass.
Application May 22, 1931. Serial No. 539,276
3 Claims. (Cl. 78—25)



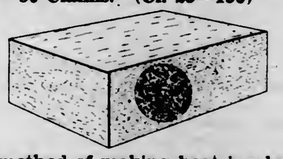
2. In a device of the class described, the combination with a frame, of a spring carried thereby and anchored at one end thereto, a striking finger rigidly secured to the free end of the spring and projecting beyond the frame, said finger being adapted to enter the keyhole slot of a lock, a trigger carried by the frame, means to couple said trigger to the finger when both the trigger and finger are in normal position, whereby movement of the trigger will retract the finger from normal position and flex the spring, means to disengage the trigger from said finger during the movement of the latter, the flexed spring returning the released finger to normal position with a striking blow and a cylinder-turning spring carried by the frame and adapted to apply a turning force to the cylinder of the lock as the striking finger is actuated.

1,944,007
LIGHT WEIGHT CERAMIC MATERIAL AND METHOD OF MAKING THE SAME
Floyd B. Hobart, Columbus, Ohio, assignor to The Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
Application April 1, 1933. Serial No. 663,975
34 Claims. (Cl. 25—156)



1. The method of making light weight porous ceramic material which comprises mixing clay or the like with a soluble silicate solution, foaming such mixture and introducing a chemical to bring about gelation thereof.

1,944,008
HEAT INSULATING MATERIAL AND METHOD OF MAKING THE SAME
Floyd B. Hobart, Columbus, Ohio, assignor to The Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
Application April 1, 1933. Serial No. 663,976
30 Claims. (Cl. 25—156)



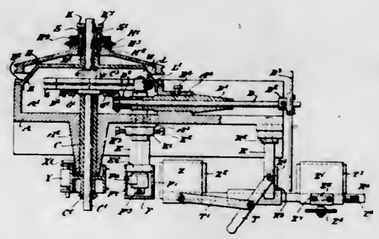
1. The method of making heat insulating material which comprises producing a foam from a soluble silicate solution and mixing a filler with such foam.

1,944,009
INTRA-ABDOMINAL RETRACTOR
Ralph W. Homer, Ventura, Calif.
Application June 14, 1932. Serial No. 617,147
9 Claims. (Cl. 128—20)



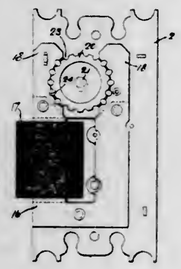
1. A retractor for insertion into an incision for the purpose of keeping the viscera from encroaching on the field of a surgical operation, comprising a pliable, non-elastic plate capable of being inserted as a whole within a body cavity and capable of being bent into any desired shape after insertion within a body cavity to form a retaining wall, said plate being sufficiently pliable to be easily bent by the hands of a surgeon but stiff enough to resist bending under pressure exerted by the tissues or organs to be retracted.

1,944,010
CONTINUOUS FILM MOTION CINEMATOGRAPH PROJECTOR
Oscar Charles Johnson, Woking, England
Application August 15, 1930, Serial No. 475,535, and in Great Britain September 2, 1929
5 Claims. (Cl. 88—16.8)



1. A continuous film-motion cinematograph comprising a frame formed with a main bearing co-axial with a formed, projecting oil-chamber which incorporates a lateral bearing-boss and is provided with a cover-plate; the frame having also secured to it a flange forming part of an adjustable bearing parallel with the main bearing; the main bearing carries a shaft on which is fixed, outside the oil-chamber, a film-operating sprocket in close proximity to the film gate, which is secured by screws at a convenient angle on the top of the frame, and in addition to carrying the film sprocket, the main shaft carries an operating cam situated within the oil-chamber and formed with parallel, oppositely arranged pairs of teeth which actuate the extremities of a rocker centrally secured to a shaft mounted in the adjustable bearing and carrying at the opposite extremity an oscillating reflector in line with the gate-aperture; the cam has fastened to it a gear wheel directly engaged with another wheel secured to a shaft mounted in the lateral bearing-boss and carrying the light-shutter; these parts being so synchronized in movement that a point of the moving film is rendered stationary, after reflection, by the oscillating reflector between the shutter occultations.

1,944,011
INERTIA GOVERNOR FOR ROTATING BODIES
Everett P. Larsh, Vandalia, and Emil J. Peterhans, Dayton, Ohio, assignors to The Master Electric Co., Dayton, Ohio, a corporation of Ohio
Application March 30, 1931. Serial No. 526,436
24 Claims. (Cl. 172—275)



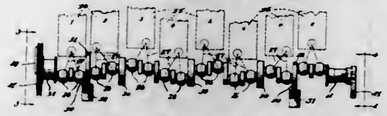
18. The combination with a rotary element subject to successive actuating impulses, of a relatively movable rotary inertia member associated therewith and receiving rotary motion therefrom adapted to momentarily shift its center of gravity relative to the rotary element intermediate succeeding impulses thereby subjecting the rotary element to an overbalancing influence by which further rotary action is imparted thereto.

1,944,012
OIL PRESSURE ACTUATED SWITCH
Adolf Lekner, Prague, Czechoslovakia
Application March 8, 1932, Serial No. 597,616, and in Czechoslovakia November 8, 1930
2 Claims. (Cl. 200—82)



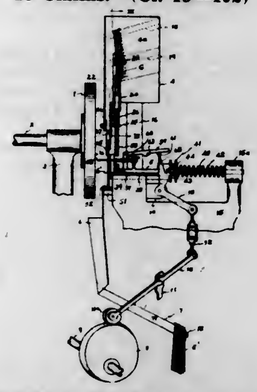
1. An oil pressure actuated switch comprising a cylinder formed of upper and lower sections, an insulating means connecting and electrically separating said sections, a piston carried in the lower section and actuated by the oil pressure, a spring for forcing the piston against the oil pressure, a piston rod connected to said piston and extending into the upper section, means carried by said rod to contact with the upper section when the piston is in a lowered position, whereby the piston rod acts as the contact member between the upper and lower sections of the cylinder, and manually operated means for breaking contact between the rod and upper cylinder section.

1,944,013
ENGINE
Andre J. Meyer, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application January 8, 1932. Serial No. 585,531
8 Claims. (Cl. 123—81)



1. In a multi-cylinder engine of the sleeve valve type, sleeve valve means operably associated with each of said cylinders, a valve shaft extending longitudinally of the engine, means operatively connecting the valveshaft and respective sleeve valve means for actuating same, said sleeve valve and operating connections producing rocking couples in the engine, counterweights carried by said valveshaft for opposing the rocking couples set up by centrifugal forces and oppositely moving masses for counteracting rocking couples set up by reciprocating forces.

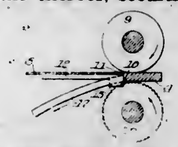
1,944,014
SPACEBAND CLEANER
Howard B. Mooney, Pittsburgh, Pa., assignor to Paul C. Dunlevy, Pittsburgh, Pa.
Application June 5, 1931, Serial No. 542,258
Renewed March 21, 1933
13 Claims. (Cl. 15—102)



7. A spaceband-cleaning machine including the combination of a revoluble buffer, a spring-backed sliding head extending on a line perpendicular to the lateral face of said buffer, means co-operating with said sliding head for supporting a spaceband in a stationary position opposite said buffer, and actuating means for the reciprocation of the sliding head on said perpendicular line, to move the spaceband from its stationary position into engagement with said buffer.

1,944,015
SHOE MACHINE
Paul Psorakes and George Hallien, Uniontown, Pa.
Application August 21, 1930. Serial No. 476,836
2 Claims. Cl. 12—17)

1. In a machine for making a rectangular L shaped severing cut across the under portion of the straight end of a sole leather blank, the combination of a fixedly mounted supporting base, a flat faced knife on the base having a lower surface tapering upwardly to a main transverse cutting edge in the plane of its upper face and a relatively short and thin downwardly extending side cutting knife extension at right angles thereto having an inner outwardly tapering surface terminating in a cutting edge forming a rectangular extension of said main cutting edge on the transverse plane thereof, securing and resisting

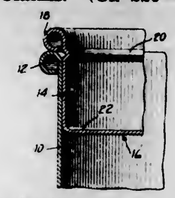


screws on the base engaging opposite edges and the rear edge of the knife, an upper and a lower feed roll each having a gripping periphery adapted to engage opposite faces of a blank immediately beyond the rectangular cutting edges of the knife adapted to engage the blank and to move it towards and against said edges to effect severance of a rectangular waste strip and its disposal below the knife as the previously connected portion of the blank is passed over above the knife.

1,944,016
PROCESS OF PRODUCING OIL SOLUBLE PHENOL-ALDEHYDE CONDENSATION PRODUCTS
Fritz Seebach, Erkner-Berlin, Germany, assignor to Bakelite Gesellschaft mit beschraenkter Haftung, Berlin-Charlottenburg, Germany, a corporation of Germany
No Drawing. Original application December 9, 1927, Serial No. 239,008, and in Germany December 14, 1926. Divided and this application November 2, 1928. Serial No. 316,877
6 Claims. (Cl. 260—4)

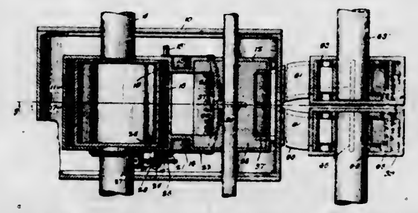
1. A process of producing resinous products which are permanently fusible and soluble in a vegetable drying oil which comprises heating a phenol-aldehyde condensation product with a phenol containing more than one hydroxyl group until the reaction mass is soluble in a vegetable drying oil.

1,944,017
NESTLESS CAN LID
George H. Steward, Rutland, Vt.
Application June 3, 1931. Serial No. 541,779
4 Claims. (Cl. 220—42)



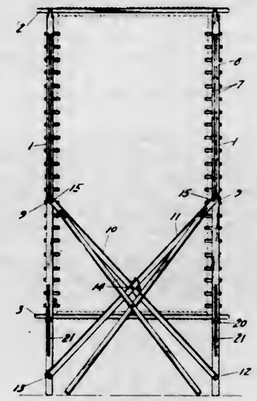
1. An insert friction closure for a can body comprising a disk portion and a side wall flanged portion extending at approximately a right angle from the disk portion and forming a practically straight sided recess in the closure over the disk portion having a mouth of a size into which other like closures, unless prevented, could enter and nest and stick, means about the outer margin of the side wall flange for limiting the insertion of the closure within a can body mouth, and means extending inwardly from the side walls of the closure remote from the closure disk portion for limiting entrance and preventing sticking of other like closures therein.

1,944,018
FLUID OPERATED GEARING
Harry A. Thompson, North Hollywood, Calif.
Application June 29, 1931. Serial No. 547,696
3 Claims. (Cl. 103—125)



2. A fluid driving means for a fluid gearing, including a casing for containing a motive fluid, a pump casing therein having an intake port and an outlet passage, a rotor in the pump casing, transversely arranged cylindrical vanes seated in the periphery of said rotor, a rotatable and recessed abutment mounted to receive said vanes within its recesses, means for urging said abutment in the direction of said rotor and means for rotating said abutment in synchrony with said rotor.

1,944,019
CURTAIN STRETCHER AND PROP
Ray Vinall, Davenport, Iowa
Application April 24, 1933. Serial No. 667,656
3 Claims. (Cl. 45—24)

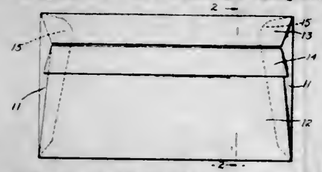


3. A curtain stretcher comprising a laterally expansible and collapsible frame and a prop therefor, said prop being pivotally connected to the side members of the frame and comprising a pair of members pivotally connected approximately midway of their length to swing with the side members as they are spread or collapsed to adjust the stretcher for curtains of different sizes.

1,944,020
ENVELOPE
Max Vogel, Frankfort-on-the-Main, Germany
Application July 30, 1932, Serial No. 626,673, and in Germany May 21, 1932
7 Claims. (Cl. 229—82)

1. In an envelope, front and back portions, a pair of closing flaps foldable relatively to said front and back portions and each having an ad-

hesive substance upon one surface, the adhesive substance upon one of said flaps adapted to ad-



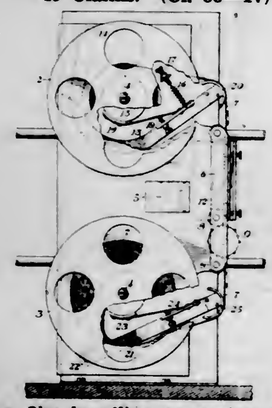
here to the adhesive substance upon the other flap upon contact therewith.

1,944,021
TREATMENT OF WET OIL
John Charles Walker, Eldorado, Kans., assignor to Empire Oil & Refining Company, Bartlesville, Okla., a corporation of Delaware
No Drawing. Application May 27, 1927
Serial No. 194,845
40 Claims. (Cl. 196—4)

20. The method of resolving a petroleum emulsion of the water-in-oil type, which comprises subjecting emulsion to the action of an alkaline salt of an alkylated polycyclic sulfonic acid.

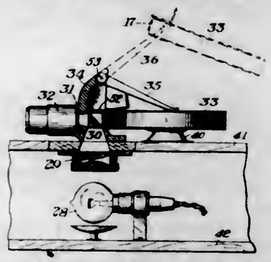
23. A process for breaking a petroleum emulsion of the water-in-oil type, which consists in subjecting the emulsion to the action of a demulsifying agent containing a water-soluble substituted polycyclic aromatic sulfonic body of the type XRR^1SO_3Z: wherein X is a polycyclic aromatic nucleus; RR^1 represents not fewer than two alcohol residues derived from alcohols having fewer than 12 carbon atoms each; SO_3 represents the conventional sulfonic acid residue, and Z represents a metallic ion equivalent, said demulsifying agent being also characterized by the fact that it will produce an insoluble precipitate with a soluble alkaline earth salt.

1,944,022
APPARATUS FOR FEEDING MATERIAL
Clarkson U. Bundick, White Plains, and Barton A. Proctor, New York, N. Y., assignors, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application July 18, 1925. Serial No. 44,482
49 Claims. (Cl. 88—17)



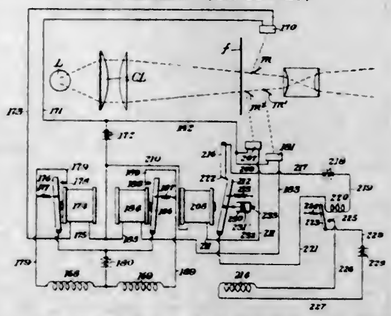
1. In a film handling apparatus, two reels, a gate therebetween, a bight of film extending from each reel to the gate, two movable film guides, each having a curved surface which engages one of the bights of the film between the gate and the appropriate reel, one leg of the film extending in a direct line from the curved surface of each guide to its relatively adjacent reel while the other leg extends in a direct line from said curved surface to the gate, feeding means for intermittently drawing the film from one reel through the gate and advancing it toward the other reel, and means operative in step with each such feeding movement for thrusting each of said guides forwardly toward the film to increase the length of both legs of each bight.

1,944,023
HOLDER FOR CINEMATOGRAPH FILMS AND THE LIKE
George William Ford, Kensington, London, England, assignor, by mesne assignments, to Kinatome Patents Corporation
Application December 2, 1925, Serial No. 72,855, and in Great Britain December 16, 1924. Renewed March 30, 1932
47 Claims. (Cl. 88—17)



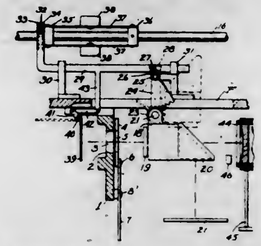
1. A container for film, comprising film containing sections between which a length of film extends pivotally connected adjacent one edge, and formed with substantially straight sides adapted to abut in closed position to protect the length of the film extending between said sections, and with other sides adapted to abut in open position to limit the opening movement of the sections.

1,944,024
PHOTOGRAPHIC APPARATUS
Warren Dunham Foster, Washington Township, Bergen County, N. J., and Earle L. Parmelee, Pittsburgh, Pa., assignors, by direct and mesne assignments, to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application April 28, 1926. Serial No. 105,159
144 Claims. (Cl. 88—17)



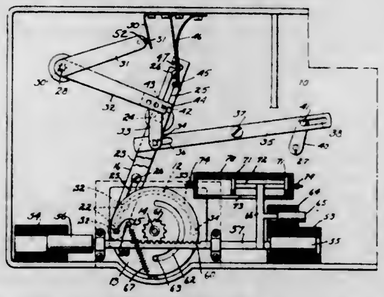
1. In a film handling apparatus, a delivery member, a taking-up member, an intermittently moving means for feeding a film between said delivery member and said taking-up member, means for compensating for the difference in character of movement of the film between said members and said feeding means, mechanism for moving said compensating means into operative engagement with the film, a source of light for cooperation with the film, and means actuated by such light from the film for actuating said mechanism.

1,944,025
FILM HANDLING APPARATUS
Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application April 9, 1929. Serial No. 353,753
29 Claims. (Cl. 88—17)



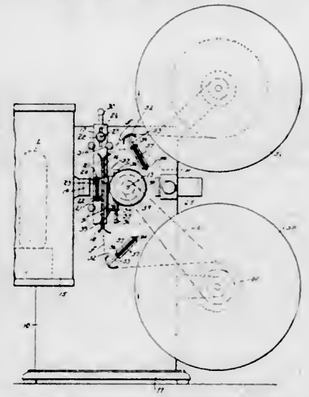
1. In a film handling apparatus, an aperture, means for feeding a film past said aperture, a source for passing light through the film at said aperture, operable means adapted for deflecting the image formed from the film at said aperture, means for positioning said image-deflecting means in cooperative relation with said aperture, and a single member for driving said feeding means and operating said positioning means.

1,944,026
CONTROL MECHANISM
Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation, a corporation of New York
Original application September 19, 1925, Serial No. 57,392. Divided and this application March 4, 1932, Serial No. 596,884, and in Great Britain September 17, 1926
33 Claims. (Cl. 175—337)



1. In combination, a solenoid comprising solenoid windings and a core adapted to movement therewithin, and means for controlling such movement, said means comprising a fluid-enclosing cylinder with a substantial portion of the wall thereof removed, a vent in an end relatively remote from such portion, a plunger adapted for travel within said cylinder, and a connection between said core and said plunger whereby the first portion of the travel of said plunger within said cylinder is without effect upon said core because of the removal of such portion of the wall and the succeeding portion of such travel retards such movement of said core by the cushioning effect of the fluid enclosed within said cylinder as it slowly escapes through said vent.

1,944,027
FILM HANDLING APPARATUS
Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation
Application May 26, 1932. Serial No. 613,661
10 Claims. (Cl. 88—17)

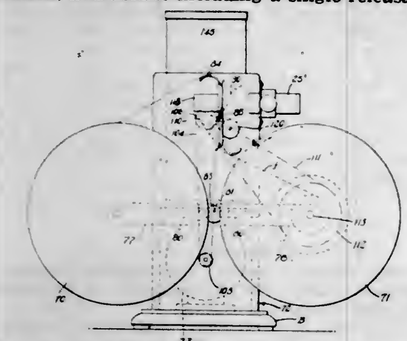


1. In a film handling apparatus, in combination, a single upright mounting plate, an openable gate having an aperture therethrough, means mounted on said plate for feeding a film through said gate past the aperture thereof, means for adjustably mounting said gate on said plate for bodily moving said gate and said aperture in relation to said feeding means for framing a picture, a motor for driving said feeding means mounted on said plate, and a barrel shutter mounted on the end of said motor shaft for cooperation with said aperture and said feeding means.

1,944,028
FILM HANDLING APPARATUS
Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation
Application May 26, 1932. Serial No. 613,662
21 Claims. (Cl. 88—17)

1. In a film handling apparatus, in combination, a mounting frame, a delivery reel disposed adjacent the base of said frame, a take up reel disposed in the same horizontal plane and the same vertical plane as said delivery reel, an apertured gate, means for feeding the film from one of said reels to the other through said gate and past the aperture thereof, said gate and said feeding means being disposed upon said mounting frame, extensible bracket members extending out from each side of said frame for supporting said reels, said frame being formed with a channel element for cooperation with said bracket members and

said bracket members being seated in said channel element, and means including a single releasable



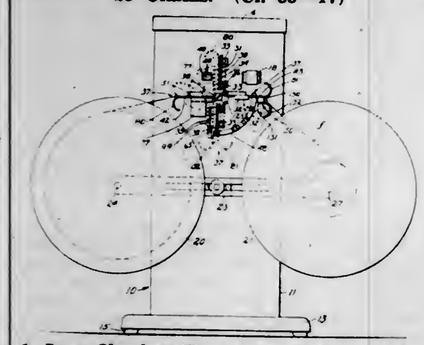
member for binding said bracket members against said frame in a plurality of positions.

1,944,029

FILM HANDLING APPARATUS

Warren Dunham Foster, Washington Township, Bergen County, N. J., assignor to Kinatome Patents Corporation

Application May 26, 1932. Serial No. 613,663
25 Claims. (Cl. 88—17)



1. In a film handling apparatus, in combination, a delivery carrier, a take up carrier mounted adjacent said delivery carrier in substantially the same horizontal plane, a gate mounted between said carriers in a plane at substantially right angles to a line joining the axes of said carriers, said gate including a pivoted section movable from a film feeding position to a position wherein it forms a bridge as a rewinding work path from one of said carriers to the other, said bridge extending across the valley between said reels, and means for feeding the film across said bridge through such rewinding work path.

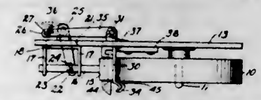
1,944,030

CONTROL FOR FILM HANDLING APPARATUS

Warren Dunham Foster, Washington Township, Bergen County, N. J., and Frederick Davenport Sweet, New York, N. Y., assignors, by direct and mesne assignments, to Kinatome Patents Corporation, a corporation of New York

Application March 23, 1933. Serial No. 662,378
22 Claims. (Cl. 88—17)

1. In combination, a film supporting carrier, a film handling apparatus having carrier mounting means, film feeding means, and an openable gate in which a film supported by said carrier may be threaded preparatory to the feeding operation, and means operated by the placing of said carrier upon said mounting means for



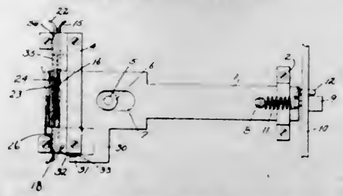
automatically opening said gate so that the film supported by said carrier may be threaded therein while said carrier is being placed upon said apparatus.

1,944,031

GATE FOR FILM HANDLING APPARATUS

Joseph Paul Laug, Union City, and Warren Dunham Foster, Washington Township, Bergen County, N. J., assignors, by direct and mesne assignments, to Kinatome Patents Corporation, a corporation of New York

Application December 2, 1930. Serial No. 499,456
37 Claims. (Cl. 88—17)



1. In a gate for use in a film handling apparatus, two film-engaging members, each movable relatively to the other, said members being movable into a first position wherein one defines one side of a work path through which a film may be fed and the other defines the opposite side of said work path, or into a second position wherein one traverses said path and the other is disposed relatively distantly from its first named position, a movable support on which one of said members is mounted, a connection between said support and said other member for moving said other member from one of said positions to the other upon movement of said support, and means for moving said support.

1,944,032

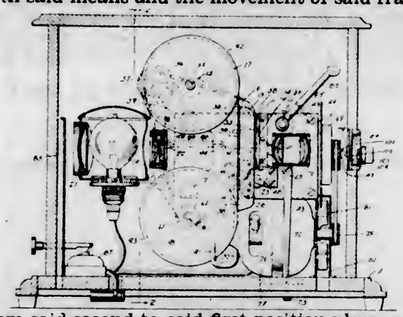
FILM HANDLING APPARATUS

Herbert George Ponting, Oxford Circus, London, and George William Ford, Kensington, London, England, assignors, by mesne assignments, to Kinatome Patents Corporation

Application September 16, 1929
Serial No. 392,889
13 Claims. (Cl. 88—17)

1. Film handling apparatus comprising a casing, a movable supporting frame, means for mounting said frame upon said casing for movement between a first position wherein it is disposed within said casing and a second position wherein it is disposed without said casing, a pair of film receiving spindles, a member for feeding a film from one of said spindles to the other, mechanism for driving at least one of said spindles and said member, said spindles said member and said mechanism being mounted upon said frame for bodily movement therewith, and means for driving said mechanism, said means being supported by said casing and so positioned relatively to said frame and said mechanism so mounted thereupon that the movement of said frame from

said first to said second position removes said mechanism from operative and driven relation with said means and the movement of said frame



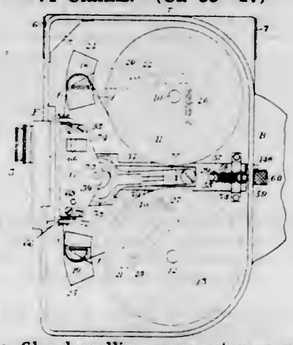
from said second to said first position places said mechanism in operative and driven relation to said means.

1,944,033

PHOTOGRAPHIC APPARATUS

Barton Allen Proctor, Pelham, N. Y., assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y., a corporation of New York

Application April 30, 1927. Serial No. 187,980
74 Claims. (Cl. 88—17)



1. In a film handling apparatus, a gate comprising two directly oppositely disposed sections each movable relatively to the other and each embodying relatively extensive film guiding surfaces and so arranged as to engage a film therebetween, a first spring impelling one of said sections toward the other, and a second spring impelling the second mentioned of said sections toward the first mentioned thereof and in opposition thereto, said first mentioned spring being constructed of a pre-determined magnitude, and said second mentioned spring being constructed of a magnitude different from such predetermined magnitude.

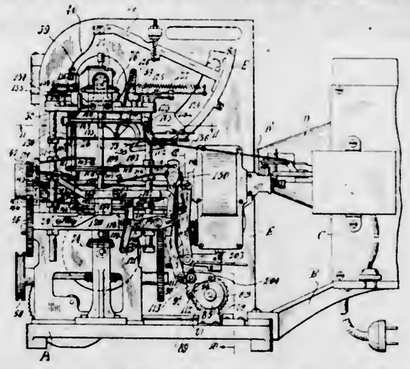
1,944,034

REPEAT PROJECTING MACHINE

Barton A. Proctor, Larchmont, N. Y., assignor, by mesne assignments, to Kinatome Patents Corporation, a corporation of New York

Application October 20, 1927, Serial No. 227,383
Renewed September 23, 1933
46 Claims. (Cl. 88—17)

15. In a motion picture machine, the combination with a film supply reel and a take up reel between which the film travels in one direction from the supply reel to the take up reel during projection and in the reverse direction from the take up reel to the supply reel during the rewinding action, of driving means, operative connection settable for connecting the driving means either to feed the film in one direction for pro-



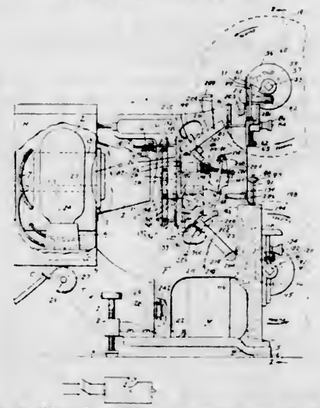
jection or in the reverse direction for rewind action, signal devices mounted upon said machine for controlling said operative connections to predetermine the length of film to be projected and rewound, and means drivingly connecting said signal devices with one of said reels.

1,944,035

FILM HANDLING APPARATUS

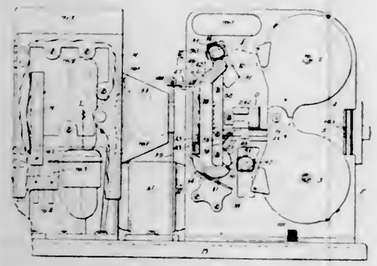
Barton Allen Proctor, Pelham Manor, N. Y., assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y., a corporation of New York

Application January 14, 1929. Serial No. 332,296
63 Claims. (Cl. 88—17)



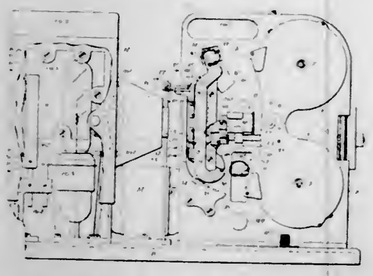
1. In a film handling apparatus, film feeding mechanism, a gate through which a film is fed, means for closing or opening said gate, means for bringing the film into driven relation with said feeding mechanism, means for bodily removing the film from such driven relation with said feeding mechanism, and sequential control mechanism interlocking all of said means, said sequential control mechanisms including devices for operating said means for bringing the film into driven relation with said feeding mechanism substantially simultaneously with the closing of said gate and beginning to operate said means for bodily removing the film from said feeding mechanism after said gate has been moved approximately to its full open position.

1,944,036
FILM HANDLING APPARATUS
Barton Allen Proctor, Pelham Manor, N. Y., assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application January 16, 1929, Serial No. 332,880
Renewed August 25, 1933
30 Claims. (Cl. 88—17)



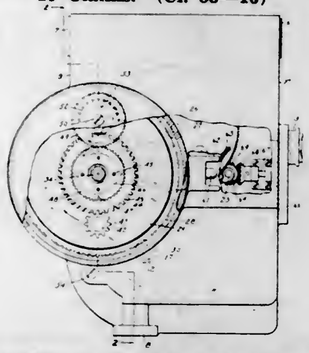
1. In a film handling apparatus having a source of light, an aperture, a delivery carrier, a take up carrier, and means creating a film work path between said carriers, in combination, a film having one end fastened to said delivery carrier and extending therefrom along said film work path past said aperture and to said take up carrier, the end portion of said film which is fastened to said delivery carrier being constructed of heat resisting material, said heat resisting end portion having a length sufficient to extend from said delivery carrier along said film work path past said aperture.

1,944,037
FILM HANDLING AND APPARATUS THEREFOR
Barton Allen Proctor, Pelham Manor, N. Y., assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application March 20, 1929. Serial No. 348,633
69 Claims. (Cl. 88—17)



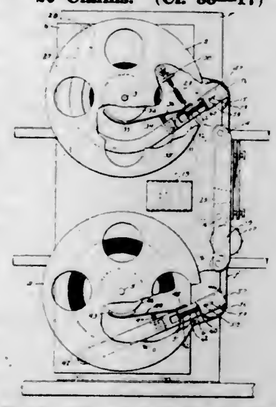
1. In a film handling apparatus, a plurality of film engaging means having a path of travel for a film therebetween, means adapted to position the film in said path of travel, means adapted to feed the film along said path from one of said engaging means to another, mechanism adapted to drive said feeding means, and mechanism interconnecting said positioning means and said driving mechanism for assuring the operation of said positioning means prior to the operation of said driving mechanism.

1,944,038
FILM HANDLING APPARATUS AND FOOTAGE RECORDING DEVICE THEREFOR
Frederick Davenport Sweet, New York, N. Y., assignor, by mesne assignments, to Kinatome Patents Corporation, New York, N. Y., a corporation of New York
Application July 7, 1930. Serial No. 465,986
19 Claims. (Cl. 88—16)



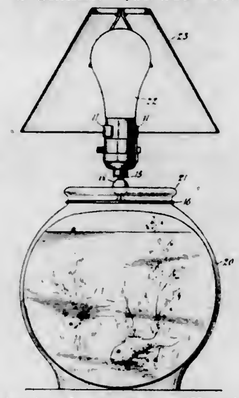
1. In a film handling apparatus, means for feeding a film, a spring for driving said means, a gear bodily movable with said spring as said spring unwinds for transmitting power to said feeding means, a device for registering the length of film fed by said feeding means, an actuating member for said registering device mounted for bodily movement with said gear, and means continuously connecting said actuating member and said registering device for continuously communicating the motion of said gear to said device as said spring unwinds.

1,944,039
APPARATUS FOR FEEDING MATERIAL
Frederick Davenport Sweet, New York, N. Y., assignor, by mesne assignments, to Kinatome Patents Corporation, a corporation of New York
Application October 5, 1931. Serial No. 567,110
20 Claims. (Cl. 88—17)



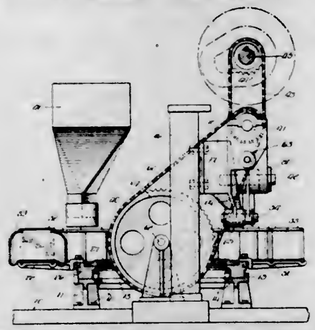
17. A film handling apparatus which comprises two film supporting members between which a film is fed and film tensioning means effective between said supporting members, said film tensioning means comprising a pivoted lever, a fulcrum upon which said lever is movable, a spring for moving said lever upon said fulcrum in opposition to the traction of the film, a sleeve upon said member movable along the longitudinal axis thereof, a film-engaging element mounted upon said sleeve, and a spring for urging said sleeve toward the film and said element into engagement therewith.

1,944,040
LAMP HOLDER AND FASTENER
Julius C. Tam, New York, N. Y.
Application December 23, 1932. Serial No. 648,703
2 Claims. (Cl. 240—52.6)



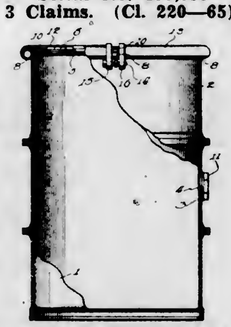
1. An adapter for securing illuminating means to an article to constitute a base therefor comprising a holder for the illuminating means, a securing element connected with said holder composed of resilient members joined by an expansible and contractible loop engageable with said article, and a member slidable on said members and frictionally engageable therewith to contract said loop in engagement with said article, and said slidable member being notched for engagement with said article to steady the adapter.

1,944,041
CLIP BAGGING MACHINE
James D. Thompson, Duluth, Minn.
Application July 14, 1930. Serial No. 467,885
2 Claims. (Cl. 226—47)



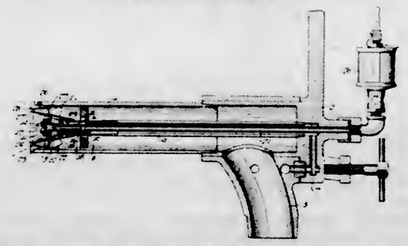
1. In a clip bagging machine, in combination, a supporting ring, a circular hub provided with an internal gear and mounted for rotation on said ring, a plurality of arms projecting from said hub for supporting arcuate sections of a crate member, each section providing compartments for receiving and positioning a plurality of containers, and means for intermittently rotating said circular hub to successively locate said containers under a discharge hopper, said means including a constantly rotating shaft, a clutch on the shaft, and rotating means on the shaft positioned for actuation by the clutch and operatively connecting with the internal gear.

1,944,042
METHOD OF MARKETING AND MEANS FOR SHIPPING PAINTS, ETC.
John W. Thompson, Chicago, Ill.
Application November 10, 1930
Serial No. 494,655
3 Claims. (Cl. 220—65)



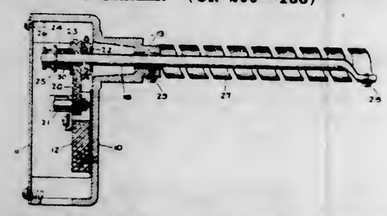
3. A receptacle comprising a rigid shell having an end-opening and a closure therefor, a wall-opening and a closure therefor, in combination with a removable bag-like lining removable through said end-opening, the main body of which lies unattached against the shell-wall, the lining adjacent said wall-opening being adhesively secured to said shell surrounding said wall-opening to seal against the admission of any part of the contents of the receptacle between the lining and shell when a portion of the lining spanning said wall-opening is ruptured.

1,944,043
OIL BURNER
Reginald W. Titmas, New Orleans, La., assignor to Titmas Company, Inc., New Orleans, La., a corporation of Louisiana
Application June 13, 1933. Serial No. 675,615
5 Claims. (Cl. 158—77)



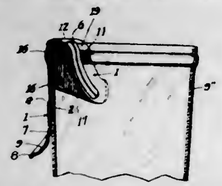
1. A liquid fuel burner comprising a burner tube, a fuel tube mounted in the burner tube, a fuel-atomizing cup rotatably mounted within the burner tube at the forward end of the fuel tube, said cup having a knife edge at its front end, a tip secured within the forward end of the burner tube about the forward end of said cup and having a deflecting surface tapering toward the knife edge of said cup, said tip having a conical surface flaring forwardly and outwardly from the knife edge of said cup, and impeller blades on said cup.

1,944,044
THERMOSTATIC SWITCH
George R. Townsend, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 31, 1930. Serial No. 472,009
5 Claims. (Cl. 200—138)



1. A thermostatic switch having a casing, a bearing in said casing extending through a wall thereof, a shaft supported in said bearing and extending within said casing, a contact supporting base mounted within said casing on said wall adjacent said shaft, a stationary contact mounted on said base, a stop member mounted on said base and oppositely disposed to said stationary contact, a movable member carrying a contact for cooperating with said stationary contact and mounted to move between said contact and said stop member, a cut-away portion in said base between said stationary contact and said stop member, an arm frictionally mounted on said shaft within said casing and having a pin connected to operate said movable member and extending within the cut-away portion of said base and movable therein whereby a compact switch mechanism is obtained, and a spiral thermostatic element having one end fixed to said casing and the other end attached to the exterior end of said shaft for operating the same.

1,944,045
PROTECTOR FOR DRINKING VESSELS
Charles R. Trampler, Sr., St. Louis, Mo.
Application November 3, 1933. Serial No. 696,572
14 Claims. (Cl. 65—13)



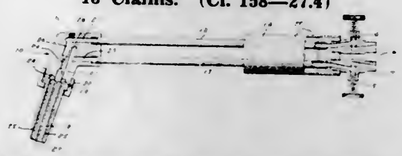
1. A protector comprising a substantially V-shaped body part forming a substantially V-shaped opening and formed with spaced superposed expandible portions, and a protecting member secured to said body part and closing said opening.

14. A protector comprising a bendable body part for mounting in overlapped relation upon the top edge of a drinking vessel, said body part being formed with spaced parallel extendible portions and with an opening extending lengthwise from and open at the top edge thereof, a protecting member of less thickness than that of said body part, extending from the top edge of the latter to beyond the base of the opening and having the marginal portions of its end and sides anchored within the edges of the opening for closing the latter, and fluid confining ribs on the outer face of said body portion adjacent the side edges of the opening.

1,944,046
PROCESS OF MANUFACTURING NITROGENOUS FERTILIZER
William H. Waggaman, Baltimore, Md., assignor, by mesne assignments, to The Oberphos Company, Baltimore, Md., a corporation of Maryland
No Drawing. Application September 8, 1928
Serial No. 304,844
5 Claims. (Cl. 71—6)

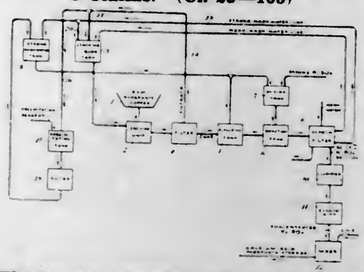
1. A process of manufacturing nitrogenous fertilizers comprising subjecting protein containing material of animal origin to the action of a gaseous nitrating agent, and then subjecting the material after absorption of the nitrating agent to conversion conditions of elevated temperature and pressure.

1,944,047
WELDING TORCH
Robert L. Wagner, Chatham, N. J., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application December 12, 1928
Serial No. 325,506
18 Claims. (Cl. 158—27.4)



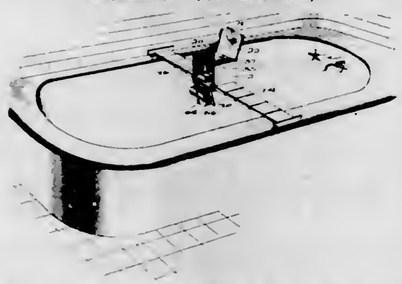
1. In a welding torch, the combination with means for combining a hydrocarbon and an oxygen concentrate to form a welding flame having a hollow therein, of means for injecting an auxiliary stream of oxygen concentrate into the hollow of said welding flame, means for automatically controlling the volume of the stream of auxiliary oxygen, and means for reducing the speed at which the stream of auxiliary oxygen is injected into the welding flame.

1,944,048
PROCESS OF PURIFYING PHOSPHATES
George E. Walker, Amherst, Va., and Albert E. Marshall, Scarsdale, N. Y., and Holbert Earl Dunn, Crafton, Pa., assignors to Southern Mineral Products Corporation, New York, N. Y., a corporation of Delaware
Application August 8, 1932. Serial No. 627,935
8 Claims. (Cl. 23—165)



1. The process of making phosphoric acid from raw phosphates containing iron and aluminum compounds, which comprises leaching the phosphate with a dilute solution containing from 5 to 15% of phosphoric acid, so as to dissolve out iron or aluminum compounds, and thereafter treating the thus-purified phosphate with sulphuric acid to produce phosphoric acid, precipitating the iron and aluminum compounds from the leaching solution, and utilizing the thus-purified leaching solution in said sulphuric acid treatment.

1,944,049
SHAVING CABINET
Millard Kronacher Weller, Greenwood, Miss.
Application July 12, 1932. Serial No. 622,121
8 Claims. (Cl. 132—81)



1. The combination with a cabinet having means for opening and closing the latter, and provided with means for carrying toilet articles, of extensible telescoping arms affording support for the cabinet and nestable in compact space alongside the cabinet.

1,944,050
MEANS AND METHOD FOR DISPLAYING SUBSTANCES
Gustav Wolkenhauer, Chicago, Ill., assignor, by mesne assignments, to Visual Display, Inc., Chicago, Ill., a corporation of Delaware
Application March 15, 1932. Serial No. 599,010
7 Claims. (Cl. 206—82)



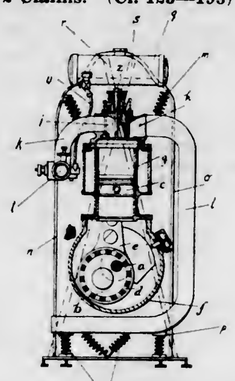
5. A device for displaying a sample of a commodity, comprising a container, a transparent medium in the container, a sample of the commodity arranged in the medium, said medium substantially filling that portion of the container occupied by the sample and being of such consistency as to maintain the sample in fixed position and so that it may be viewed in perspective, and said sample being clearly visible through the medium and the container.

1,944,051
WINDSHIELD WIPER
Max Zaiger, Swampscott, and Louis Zaiger, Lynn, Mass.
Application August 23, 1932. Serial No. 630,048
6 Claims. (Cl. 15—250)

1. A windshield wiper blade comprising a holder U-shaped in cross section, flexible wiping strips mounted in the holder, a clip by which the holder is secured to a wiper arm, said clip presenting a U-shaped body portion, an attaching ear extending downward laterally from each leg of the body portion, means for securing the ears to the holder with an ear on each side of the holder and with the legs of the body portion extending substantially parallel to the holder, one of said legs having on its upper edge a hook-shaped extension adapted to enter the slot in the end of a flat resilient wiper arm.



1,944,052
PORTABLE POWER PLANT
Engelbert Zaschka, Berlin-Neukolln, Germany, assignor of one-half to Fr. A. Unverdross, doing business as "Dimoha" Hagen-Westf.-Kabel, Haus Busch, Germany
Application April 21, 1930. Serial No. 446,155
2 Claims. (Cl. 123—195)

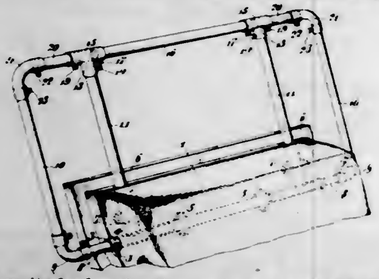


1. A portable body support for a motor, wherein the motor includes rigid induction and exhaust pipes, said body support comprising frame bars, spring devices extending between the frame bars and the induction and exhaust pipes of the motor for the support of the latter and for absorption of vibration during operation of the motor and body straps carried by the frame bars.

1,944,053
COVER FOR RUMBLE SEATS OF AUTOMOBILES
Samuel Zied, Philadelphia, Pa.
Application May 29, 1933. Serial No. 673,506
1 Claim. (Cl. 296—99)

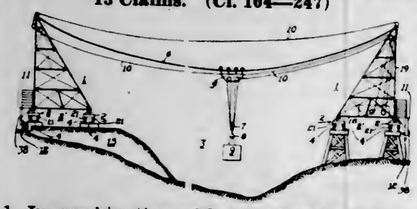
In a rumble seat cover including a supporting frame, for automobiles, said frame comprising a tubular guide rod section to be disposed horizontally of the rumble seat back and under the upholstery and provided with tubular guides extending at right angles to the first rod section and in a plane parallel with the rumble seat back, tubular rod sections telescoping the horizontally disposed rod section and extending into rod sections at right angles and upwardly and in a plane parallel with the rumble seat back, an upper tubular rod section spaced from but in parallelism to the upper edge of the rumble seat back when opened and having its remote ends connecting said last named upwardly extending rod sections, said upper horizontal rod section consisting of

telescopical adjustable portions, certain of said portions having downwardly extending rod sections to telescopically connect with the right angle tubular guides, means for adjustably fastening the various rod sections and tubular guides together, the elements of the frame being adjust-



ably united whereby it may be accommodated to rumble seats of different makes of automobiles, and a covering corresponding to and fitting down over the frame at the back and forwardly of the frame with means at its forward end connecting it to the customary permanent top of the automobile.

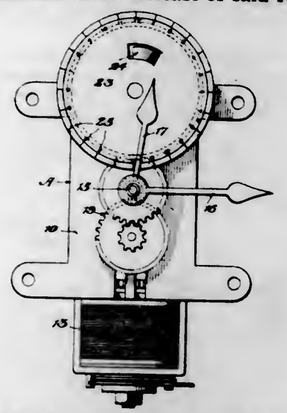
1,944,054
CABLEWAY TOWER
Adolph J. Ackerman, Madden Dam, Canal Zone
Application April 10, 1933. Serial No. 665,260
13 Claims. (Cl. 104—247)



1. In combination with a cableway tower having a platform mounted on trucks adapted to run on rails, and a mast rising from the platform, there being universal joints between the platform and trucks to allow the trucks to move relative to the platform to compensate for irregularities in the rails, of a substantially horizontal rail extending parallel to the platform truck rails, and a truck depending from the platform and having substantially horizontally disposed wheels running on said rail adapted to transmit to the horizontal rail the thrust imposed on the cableway and acting crosswise of the platform truck rails.

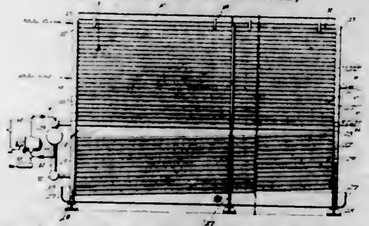
1,944,055
CLOCK-OPERATED CIRCUIT CONTROLLER
Thomas Raymond Arden, Baldwin, N. Y., assignor to American Flyer Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application January 20, 1932, Serial No. 587,828. Divided and this application November 25, 1932. Serial No. 644,381
5 Claims. (Cl. 200—39)

1. In a clock, a clock mechanism, a member mounted for rotation and held against axial movement, a connection between the clock mechanism and said member whereby one complete rotation is imparted to the latter during a twenty-four hour period of time, a rotatably adjustable shaft element slidable through said member, friction means holding said shaft normally against rotation, spring means constantly tending to slide said shaft element in one direction through said member, means normally restraining said shaft element against sliding movement by said spring means, means whereby rotation of said member effects release of said restraining



means, a fixed contact, and a cooperating movable contact operatively connected with said shaft element and normally spaced from said fixed contact so as to engage said fixed contact upon release of said restraining means and sliding of said shaft element by said spring means.

1,944,056
COOLER FOR LIQUIDS
Alvin H. Baer, Carbondale, Pa., assignor to The Carbondale Machine Company, Carbondale, Pa., a corporation of Pennsylvania
Application February 24, 1933. Serial No. 658,425
8 Claims. (Cl. 62—141)

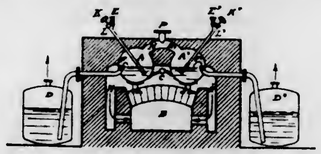


5. In a cooler for liquids, a distributing trough, a series of pipes arranged to have the liquid from the trough flow successively over them, said series comprising a lower section supplied with a volatile refrigerant, an intermediate section supplied with liquid at an intermediate temperature, an upper section supplied with liquid at a higher temperature, and means connected to the intermediate section for pre-cooling between peak loads the liquid used therein.

1,944,057
APPARATUS FOR CONTINUOUS DISTILLATION OF HEAVY HYDROCARBONS
Emile Augustin Barbet, Paris, France
Application October 13, 1930, Serial No. 488,498, and in France October 14, 1929
1 Claim. (Cl. 196—118)

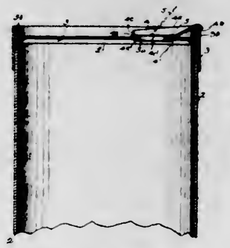
Apparatus for the continuous distillation of hydrocarbons comprising a twin still adapted to contain molten metal, a vapor outlet common to the two stills, jacketed injection tubes, a valve

at the outlet ends of the ejection tubes by which the hydrocarbon is projected into the molten metal, means for heating each still in



proximity to the point of injection of the hydrocarbon and overflow pipes in the stills for continuously removing the asphaltic residue produced during distillation.

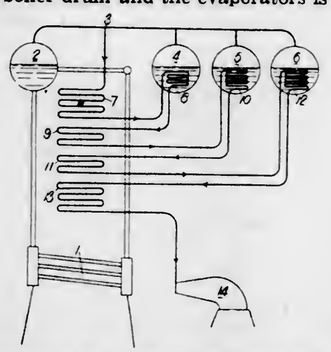
1,944,058
POURING SPOUT FOR CONTAINERS
Thomas E. Barnes and William F. Cobb, Utica, N. Y.
Application March 6, 1933. Serial No. 659,601
3 Claims. (Cl. 221—11)



1. In combination with a container cover formed with a pouring opening adjacent its periphery the latter being defined by an upstanding annular bead, a pouring spout mounted on the cover having an opening in its bottom that coincides with the opening of the cover, means to rigidly secure the spout to the cover, the bottom of the spout being formed at its opposite sides and one end with a continuous upwardly facing flange, said flange adjacent the coinciding opening being formed with an external curved rib, the free end of the bottom of the spout resting upon said bead, and means to seal the coinciding openings of the spout and cover comprising a flexible non-metallic sheet whose inner end is held firmly in the grip of said rib while the remainder of the sheet is held in intimate contact with the bottom of the spout by the snug fitting of the parts, and the free end portion of said sheet adapted to be flexed upwardly to uncover said coinciding openings and dispense the contents of the container.

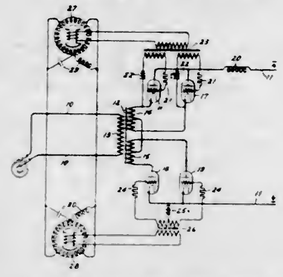
1,944,059
STEAM GENERATOR
Karl Baumann, Barnfield, England
Application August 7, 1930, Serial No. 473,695, and in Great Britain August 21, 1929
6 Claims. (Cl. 122—31)

2. A steam generating plant comprising a furnace, a plurality of steam and water tubes surrounding said furnace, a boiler drum into which said steam and water tubes discharge, a plurality of evaporator drums, a heating element for each evaporator drum and a plurality of superheater elements through which all the steam generated in the boiler drum and the evaporators is passed



in alternation with the heating elements in the evaporators.

1,944,060
ELECTRIC VALVE CONVERTING APPARATUS AND METHOD OF OPERATING THE SAME
Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 23, 1932
Serial No. 634,546
13 Claims. (Cl. 171—97)

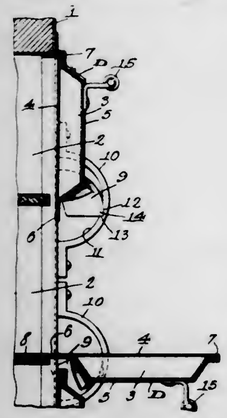


12. In combination, a direct current supply circuit, an alternating current load circuit, electric valve converting apparatus interconnecting said circuits and including a pair of serially connected groups of grid controlled electric valves, and means for controlling the voltage of said load circuit comprising means for impressing upon the grids of one of said groups of valves alternating potentials substantially in phase opposition to that of said alternating current circuit, and means for impressing upon the grids of the other of said groups of values alternating potentials variable in phase from substantial phase opposition to substantial phase coincidence.

1,944,061
OVEN DOOR
Clark L. Beverly, Columbus, Ohio
Application July 7, 1932. Serial No. 621,261
4 Claims. (Cl. 126—190)

1. The combination of a structure having a compartment, of brackets secured to the structure each having a segmental socket, the arcuate wall of which is provided, between its ends, with a notch forming a shoulder, a door projecting between the brackets, and segmental members secured to the door and mounted within the sockets for sliding engagement with the arcuate walls

thereof, said members being shiftable into the notches to bear downwardly thereon and support



the door out of line with the center of gravity, thereby to maintain the door pressed against the structure to close the compartment.

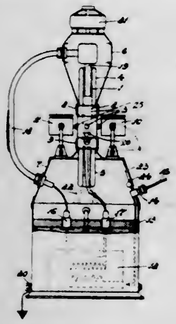
1,944,062

X-RAY APPARATUS FOR CRYSTALLOGRAPHIC EXAMINATION AND LIKE PURPOSES

Albert Bouwers, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a limited liability company of the Netherlands

Application September 4, 1928, Serial No. 303,934, and in the Netherlands February 28, 1928

5 Claims. (Cl. 250—34)



1. An apparatus for the examination of substances with the aid of X-rays comprising an X-ray tube, the wall of which has a metallic portion, secured to insulating portions and insulated from the electrodes of the tube, said metallic portion surrounding the path of the discharge and being mechanically and electrically connected with a metallic envelope, which is adapted to be grounded during the operation and surrounds an insulating portion of the tube, said metallic envelope enclosing a transformer for high tension supply electrically connected to the electrodes of the tube, and having externally secured to it at least one device for taking X-ray photographs.

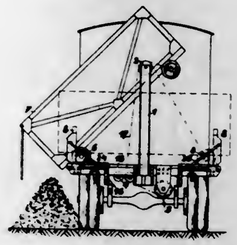
1,944,063

LOADING DEVICE SPECIALLY FOR TRUCKS

Fritz Brauner, Vienna, Austria

Application July 21, 1928, Serial No. 294,504, and in Germany July 28, 1927

7 Claims. (Cl. 214—65)



1. A loading arrangement especially for motor lorries for loading and unloading the container displaceable transversely to the travelling direction, comprising in combination with the vehicle frame, transverse bars fixed on and projecting from both sides of said frame adapted to guide the container, a rope winch drum mounted under said vehicle frame, a guide pulley in the middle under said frame, a tipping upright adapted to be inserted in said frame, a pulley on the upper end of said upright, a rope connected at one end to said drum extending upwards from said drum over said pulley under said frame and around and in downward direction on the other side of said pulley at the upper end of said upright and descending adapted to be detachably connected to the lower end of said container and to cause a tilting of said container when said rope is wound on said drum.

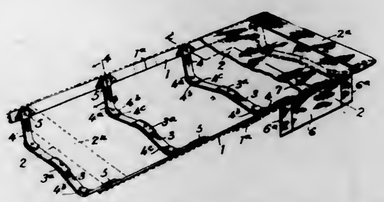
1,944,064

FOLDING COT

Moses J. Byer, Orono, Maine

Application May 22, 1933. Serial No. 672,265

3 Claims. (Cl. 5—114)



1. A foldable cot, comprising opposite side bars, a flexible sheet connected with the side bars, a plurality of foldable supports detachably attached to the side bars, each support comprising a central member bowed upwardly at its center and having its ends upturned, and arms having their lower ends curved like the curved outer ends of the central member and pivotally connected to the curved ends of the central member, said arms forming extensions of the ends of the central member and having their free ends detachably engaged with the side bars when the cot is assembled for use; the ends of the arms and central members overlapping adjacent the pivots in a manner to prevent said arms moving inwardly on the central members when load is placed on the flexible sheet; and said arms being foldable over the adjacent parts of the central member when the cot is knocked-down.

1,944,065

LOW VOLTAGE STORAGE BATTERY

Rufus N. Chamberlain, Chicago, Ill., assignor, by mesne assignments, to Gould Storage Battery Corporation, Depew, N. Y., a corporation of Delaware

No Drawing. Application March 7, 1930 Serial No. 434,170

1 Claim. (Cl. 136—26)

A storage battery plate of the pasted lead type adapted for use in a sulphuric acid electrolyte having active material incorporating between .9 and 1.5% by weight of nickelous sulphate.

1,944,066

STORAGE BATTERY

Rufus N. Chamberlain, Chicago, Ill., assignor, by mesne assignments, to Gould Storage Battery Corporation, Depew, N. Y., a corporation of Delaware

No Drawing. Application March 7, 1930 Serial No. 434,171

2 Claims. (Cl. 136—26)

1. A pasted storage battery plate including lead-acid active material having as one of its ingredients from .1 to .5 of 1% by weight of sulphate of cobalt.

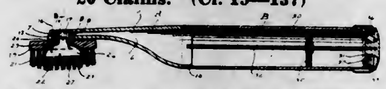
1,944,067

FOUNTAIN TOOTHBRUSH

Claude R. Collins, New York, N. Y.

Application November 4, 1932. Serial No. 641,285

20 Claims. (Cl. 15—137)



1. A tooth brush comprising a reservoir section, a shank section having a feed channel in communication with the reservoir section, a valve member rotatable in the shank section transversely thereof and having a port to communicate with the feed channel, a brush head carried by the valve member to rotate the latter and having a material discharge way controlled by the valve member, and means for applying pressure upon the material in the reservoir section.

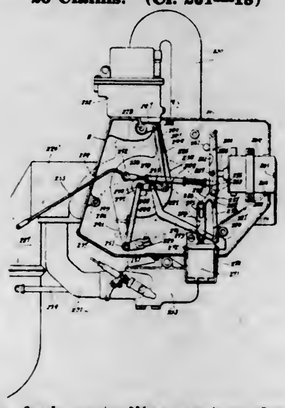
1,944,068

FUEL CONTROL SYSTEM

Herbert M. Corse, Jacksonville, Fla.

Application May 4, 1932. Serial No. 609,297

28 Claims. (Cl. 261—18)



1. In a fuel controlling system for internal combustion engines using a plurality of fuels, the combination of means for automatically varying the proportions in respect to each other of the fuels in substantially all proportions, and means for manually varying the proportions of the fuels.

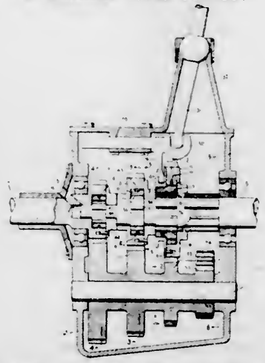
1,944,069

TRANSMISSION GEARING FOR AUTOMOTIVE VEHICLES

John W. Connors, Washington, D. C.

Application November 10, 1932 Serial No. 642,095

6 Claims. (Cl. 74—59)



1. In a gear changing mechanism having a driving shaft, a driven shaft having gears thereon in alignment with said driving shaft and in which a counter shaft carries gear wheels constantly in mesh with gears on said shafts for transmitting power in variable ratio from the driving to the driven shaft, speed responsive means for successively coupling the gear wheels to the driven shaft and said shafts to each other, said means comprising a sleeve within each gear splined on the driven shaft, a centrifugally operable driving member adapted to be moved into contact with said gear and surrounding said sleeve, and clutch members carried by the sleeve and adapted to lock said driving member into radial driving contact with said gear.

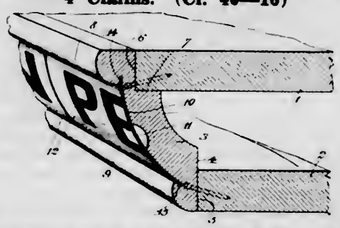
1,944,070

CROWN MOLDING

John H. Esdorn, New Rochelle, N. Y.

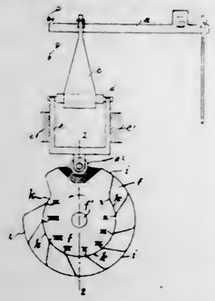
Application March 22, 1932. Serial No. 600,538

4 Claims. (Cl. 40—16)



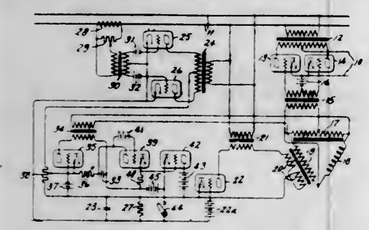
3. A crown molding comprisiug a comparatively long narrow body having an arc-shaped front divided centrally with a longitudinal groove and a bead along each longitudinal edge, each of said beads having a slot positioned to receive and hold a card against said front surface and a rear surface formed with a right angle notch along one longitudinal edge and a straight flat portion along the other longitudinal edge, said straight flat portion and one of the walls of said notch being parallel and vertical when said body is arranged at a substantial angle to the vertical.

1,944,071
WEIGHING DEVICE OR BALANCE
Heinrich August Ludwig Essmann, Altona-Klein-Flottbek, Germany, assignor to the firm Ottensener Waagenfabrik Albert Essmann & Co., Altona-Ottensen, Germany
Application July 29, 1929, Serial No. 381,873, and in Germany August 1, 1928
5 Claims. (Cl. 265—48)



1. An automatic weighing device or balance comprising a beam, a system of several sets of weights of different orders disposed above the said beam, a scale cooperating with the said beam, the said beam automatically taking up a number of weights corresponding to the load on the said scale, a weight carrier for each weight, and adjusting means for the said carriers for bringing the weights not taken up by the said beam out of weighing range.

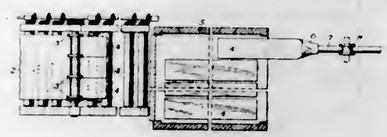
1,944,072
AUTOMATIC RECLOSING CIRCUIT BREAKER SYSTEM
Alan S. Fitz Gerald, Wynnewood, Pa., assignor to General Electric Company, a corporation of New York
Application April 17, 1931. Serial No. 530,887
20 Claims. (Cl. 175—294)



1. In a system of distribution, an alternating current supply circuit, a load circuit, means including an electric valve for transmitting energy therebetween, means responsive to abnormal circuit conditions for rendering said valve nonconductive, and other means responsive to sustained abnormal circuit conditions for modifying the control of said valve.

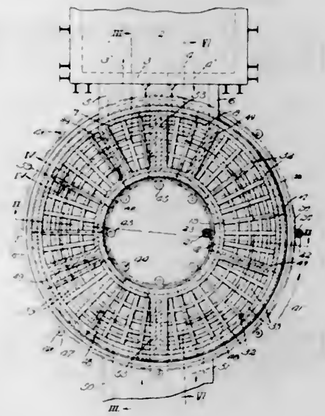
1,944,073
METHOD OF FORMING TUBULAR ARTICLES
Lewis W. Fogg, Youngstown, and George W. Lentz, Canton, Ohio
Application January 19, 1931. Serial No. 509,662
4 Claims. (Cl. 29—156)

1. In a method of linking tubular articles from flat plate, the steps including moving the plate through a slitting shear in the direction of its length, continuously introducing the slit pieces from the shear into a heating furnace substantially immediately to preclude atmospheric oxi-



dation of the slit edges, heating the pieces in the furnace while continuing their lengthwise movement, bending the lateral edges of the heated pieces toward each other and welding them together.

1,944,074
METHOD AND APPARATUS FOR OPERATING FURNACES
Samuel A. Forter, Pittsburgh, Pa., assignor to H. L. Dixon Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 21, 1931
Serial No. 582,353
13 Claims. (Cl. 263—19)

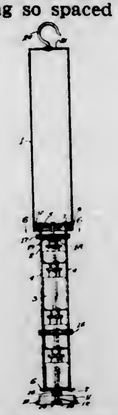


1. The combination with a furnace, of a rotatable regenerator, and means for continuously supplying fluid to be heated to said furnace through the regenerator and withdrawing heating fluid from the furnace through the regenerator in a constant direction and in opposition to the direction of regenerator rotation.

1,944,075
CONTAINER
Henry J. Gaisman, New York, N. Y.
Application May 20, 1931. Serial No. 538,692
13 Claims. (Cl. 206—1)

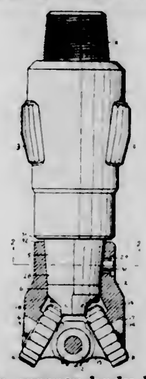
1. A container comprising a casing, a retainer for articles movable into and from the casing, and means to detachably keep the retainer within the casing, said retainer comprising annularly disposed flexible members providing a space within for articles and means at opposite ends of the

members to retain them in relative positions, said members being so spaced apart as to per-



mit said articles to be pulled laterally between adjacent members.

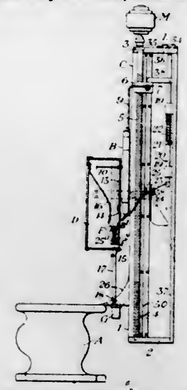
1,944,076
DRILL
Russell Giesey, Oklahoma City, Okla., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application December 12, 1931
Serial No. 580,608
2 Claims. (Cl. 255—71)



1. In a drill, a reamer body having a tapered shank non-circular in cross-section, a cutter on said body, a bit head having a cooperating non-circular socket into which said shank is slidable, a cutter on said head, said reamer body shank having flats along its sides, a plurality of pins secured in the shank, said pins projecting outwardly beyond the shank and extending into elongated slots in the walls of the cooperating bit head socket whereby the bit head is mounted on the reamer body shank in such manner that it may slide thereon upwardly or downwardly a limited distance, the pins in said slots preventing said bit head from falling off the shank.

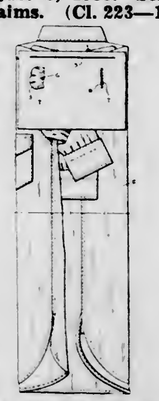
1,944,077
TOILET APPARATUS
Max G. Gold and Daniel A. Moritz, McKeesport, Pa.
Application July 6, 1929. Serial No. 376,344
23 Claims. (Cl. 4—242)

1. Toilet apparatus comprising a bowl, a movable seat normally occupying an inoperative position, means for moving said seat to an operative position on said bowl, a magazine containing a supply of sanitary covers, and means for auto-



matically placing one of said covers upon said seat during its movement to said operative position.

1,944,078
GARMENT SUPPORTING BOARD
William N. Goldwater, Rochester, N. Y.
Application August 8, 1933. Serial No. 684,248
2 Claims. (Cl. 223—18.6)

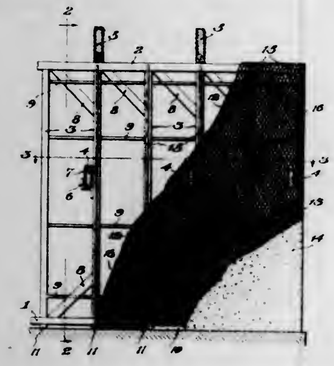


1. A shirt supporting board comprising a relatively stiff substantially rectangular sheet of material having a relatively long slot near one edge thereof to receive and hold the tail end of a folded shirt which latter is folded over the board with the board between the folds, that portion of the tail passed through the slot being folded inwardly over the board, the board also having relatively short spaced slots arranged relatively close to said relatively long slot near the ends of the latter to receive and hold other spaced portions of the shirt whereby to firmly hold the shirt on the board in a compact folded condition for display and packing purposes.

1,944,079
CONSTRUCTION OF INSULATED WALLS
Roy R. Graves, Kensington, Md.
Application February 24, 1932. Serial No. 594,912
10 Claims. (Cl. 72—16)

1. In the construction of heat insulated walls, the process which comprises erecting a wall framework, covering said framework on at least

two sides with sheets of reinforcing mesh, filling the space between said sheets of reinforcing mesh with a heat insulating material in loose form and subject to packing, and applying a layer of cement over said reinforcing mesh in such manner



that a substantial portion penetrates into said insulating material thereby forming an interlocking engagement between said material and said cement, whereby packing of said insulating material is prevented.

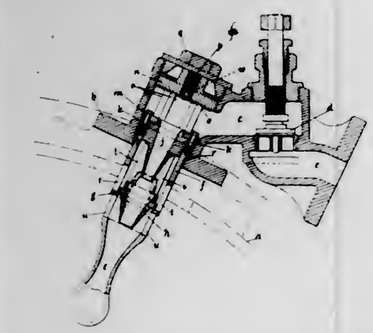
1,944,080

FEED WATER HEATER OF THE INJECTOR TYPE

Harry Edward Gresham and James Neville Gresham, Salford, Manchester, England

Application July 11, 1931, Serial No. 550,182, and in Great Britain April 14, 1931

4 Claims. (Cl. 122—442)



1. A feed water heater of the injector type comprising in combination a heater casing having an internal shoulder therein, a delivery cone having a cylindrical extension provided with an internal seat and an external shoulder seated upon said internal shoulder and also with ports for communication with a source of steam, an intermediate cone within said cylindrical extension resting upon said internal seat, an inlet cone within and secured to said cylindrical extension adjacent said external shoulder to hold said intermediate cone upon said internal seat, and means associated with said heater casing to maintain said cylindrical extension with its external shoulder upon said internal shoulder.

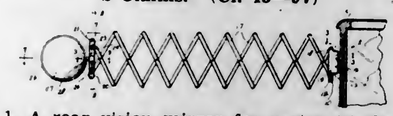
1,944,081

REAR VIEW MIRROR SUPPORT FOR MOTOR TRUCKS AND THE LIKE

Helmer G. Hanson, Vienna, S. Dak.

Application May 24, 1933. Serial No. 672,729

2 Claims. (Cl. 45—97)



1. A rear vision mirror for motor trucks and the like comprising a bracket, means for mounting the bracket on a door hinge, a lazy tongue construction operatively connected with the bracket, a pair of plates, means for holding the plates in spaced parallel coextensive relationship, terminals of the lazy tongue construction having pin and slot connections with the plates, the intermediate portions of the plates having sockets, the concave faces of which oppose each other, a mirror, a frame for the mirror, a shank projecting from the frame and terminating in a ball frictionally engaged in the socket.

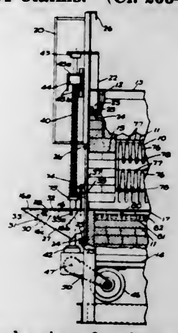
1,944,082

DOOR MECHANISM

George W. Hegel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application May 17, 1930. Serial No. 453,372

14 Claims. (Cl. 263—10)



1. Door mechanism for furnaces and the like provided with walls forming a heating chamber having an opening therein that is provided with a threshold, comprising a door for closing said opening having an area substantially larger than the area of said opening so as to provide an overlap between said door and the wall portion below said threshold, a shelf, means movably supporting said shelf so that it can be moved to a working position before said opening substantially flush with said threshold or can be removed from said opening to permit said door to close and means operably associated with said shelf for moving it to its working position substantially flush with said threshold when said door is moved to any open position within its range of movement to provide access to said heating chamber.

1,944,083

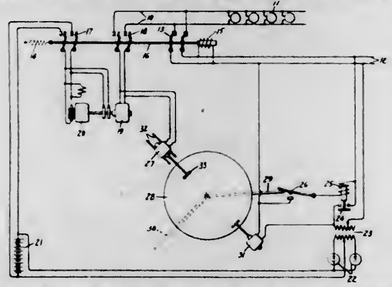
AUXILIARY ELECTRIC SUPPLY SYSTEM

Edward S. J. Holland, Framingham Center, Mass., assignor to Warren Telechron Company, Ashland, Mass., a corporation of Maine

Application March 22, 1933. Serial No. 662,092

8 Claims. (Cl. 171—97)

1. In combination, an electric load circuit, a normal source of supply for said circuit, auxiliary supply apparatus for supplying said load circuit during a failure of the normal source of supply, relay means responsive to the voltage of the normal source of supply for disconnecting the normal source of supply from said load circuit and connecting said auxiliary supply apparatus thereto when the normal source fails and performing the reverse operation when the normal source of supply is restored, a storage battery for supplying said auxiliary supply apparatus, means



for charging said battery from the normal source of supply, means for timing the period during which the auxiliary supply apparatus is active to supply the load circuit, means for timing the period during which said battery charging apparatus is active, and means controlled by said two timing means for controlling the battery charging means so that it is active, following an interruption and restoration of the normal source of supply, for a period of time proportional to the duration of the interruption.

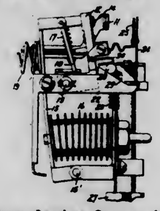
1,944,084

CIRCUIT CONTROLLING DEVICE

Leonard P. Hutt, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 23, 1932. Serial No. 588,360

3 Claims. (Cl. 200—81)



1. In a resetting device for a circuit controlling switch, the combination with a switch member movable between open and closed position, a pivot for said switch member, a device responsive to predetermined conditions for moving said switch member to closed position, an over-center spring connected to said device and switch member for obtaining a snap action of said switch member to closed position and for maintaining said switch member biased to closed position when said switch member has been moved to the closed position, a tripping member mounted on the pivot adjacent said switch member for moving said switch member to open position, said tripping member being provided with a beveled portion, a second spring biased to operate said tripping member to open said switch against the bias of said first spring, a bimetallic element for maintaining said tripping member in inoperative position against the bias of said second spring and responsive to overload conditions for releasing said switch moving member, of a reset member provided with a finger operable into engagement with said beveled portion to return said tripping member to initial position against the bias of said second spring, and resilient means on said switch member engaging said finger for maintaining said switch member in open position against the bias of said first spring as said finger is moved along said beveled portion to reset said tripping member.

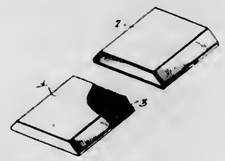
1,944,085

TRACK TORPEDO AND METHOD OF MAKING THE SAME

Hugh Williamson Kelly, Woodbridge, N. J.

Application January 7, 1932. Serial No. 585,318

5 Claims. (Cl. 246—487)



1. A method of making track torpedoes, which comprises providing a plurality of containers of such dimension that they will hold the exact quantity of detonating material required for a charge when filled and no more, placing said containers in closely assembled vertically disposed position and in juxtaposed relation to each other, introducing and packing unmeasured amounts of detonating material into all of said containers simultaneously until they are filled, and sealing the filled containers.

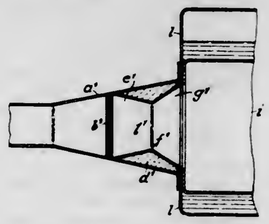
1,944,086

PULVERIZED FUEL FURNACE

Willy Kempf, Cassel, Germany, assignor to Stug Kohlenstaubfeuerung Patentverwertung G. m. b. H., Cassel, Germany

Application November 13, 1930, Serial No. 495,491, and in Germany December 13, 1929

3 Claims. (Cl. 110—28)



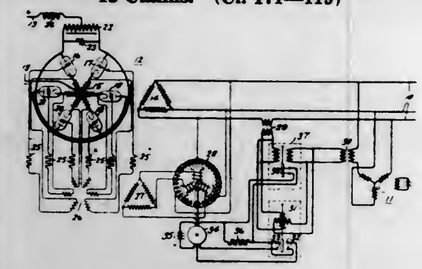
1. In a pulverized fuel furnace, more particularly for locomotives, a combustion chamber, a common coal-dust and air supply conduit, a rose burner plate in said conduit intermediate the ends thereof, and an ignition chamber arranged between said rose burner plate and said combustion chamber, said ignition chamber being provided with a lining which forms a passage tapered in the direction of flow therethrough towards said combustion chamber to a constriction, the inner wall of said passage formed by said lining being adapted to radiate its heat back to said rose burner plate and to heat the mixture up to ignition temperature.

1,944,087

SYSTEM OF ELECTRICAL DISTRIBUTION

Karl Kettner, Berlin-Lankwitz, Germany, assignor to General Electric Company, a corporation of New York

Application March 24, 1933, Serial No. 662,593, and in Germany April 4, 1932
15 Claims. (Cl. 171—119)



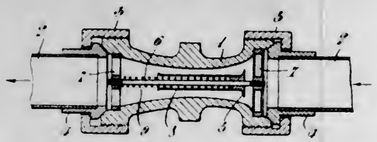
1. A system of electrical distribution comprising a load circuit, a first source of electrical energy for said load circuit, a second source of electrical energy, an electric valve converting apparatus for transmitting energy from said second source to said load circuit, said converting apparatus including a plurality of grid controlled electric valves, and means responsive jointly to the currents supplied by said converting apparatus and said first source for controlling the potentials of the grids of said valves to control an electrical characteristic of the output of said converting apparatus.

1,944,088

MEANS FOR CONTROLLING THE TEMPERATURE OF HOT WATER FOR TAPPING PURPOSES

Erik Torvald Linderoth, Sodertalje, Sweden, assignor to Curt Fredrik Rosenblad, Sodertalje, Sweden

Application November 7, 1932, Serial No. 641,679, and in Sweden November 2, 1931
6 Claims. (Cl. 122—4)



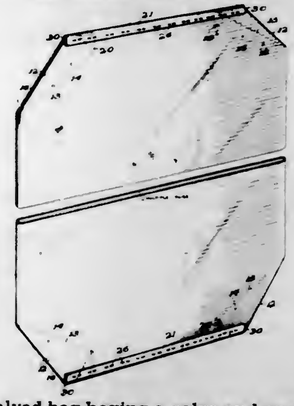
5. In a plant for heating and distributing hot tap-water, in combination, a heater for hot water, at least one main for hot water from said heater, branch pipes from said main to at least one tapping station, valves in said branch pipes, a housing in each of said mains, a spindle secured in said housing, a throttle disc movable longitudinally on said spindle in the direction of flow, and reversely, fixed carriers for said spindle, a helical spring encircling said spindle between said disc and one of said carriers, a sleeve secured to said disc and enclosing at least that part of said spring which is in the narrowest cross-section of said housing, which has a longitudinal passage with a circular cross-section decreasing from both ends to the centre along said spindle in such manner that a substantially constant quantity of tap-water flows therethrough independent of variations of the pressure of the water supplied to said heater and of the number of valves simultaneously opened for tapping.

1,944,089

BAG

Isaac W. Litchfield, Boston, Mass., assignor to Bemis Bro. Bag Co., New York, N. Y., a corporation of Missouri

Application January 12, 1931. Serial No. 508,323
33 Claims. (Cl. 150—9)



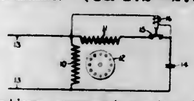
1. A valved bag having a valve and one or more corners each provided with two reversely directed reentrant interfolds.

1,944,090

ALTERNATING CURRENT MOTOR CONTROL

Alan F. Lukens, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application November 30, 1932
Serial No. 644,994
11 Claims. (Cl. 172—279)



1. An alternating current motor having a primary winding across which the voltage increases as the motor comes up to speed, circuit controlling means associated with said winding for changing the motor connections between starting and running conditions, a relay connected to be responsive to the voltage across said winding only during the starting connection of the motor for operating said circuit controlling means, the operation of the circuit controlling means serving to reduce the voltage on said relay to a holding value below that necessary for its operation.

1,944,091

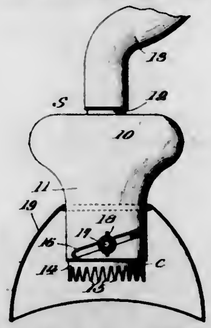
SCALP TREATING DEVICE

Rollin B. Lutz, Hollywood, Calif.

Application June 16, 1930. Serial No. 461,588
8 Claims. (Cl. 128—300)

5. A scalp treating device comprising a casing including a cylindrical suction inlet conduit and a detachably connected enlarged suction chamber of bulbous form superposed upon and communicating with said conduit, said bulbous chamber having an outlet opening, a hollow comb member of cylindrical form having telescoping engagement with said conduit and mounted for axial and rotative movements with respect to said conduit, the said comb member having comb teeth on its lower edge constructed and arranged to rest upon the surface to be operated upon and so

spaced as to provide air inlet openings between them, and complemental means carried by the conduit and the comb member for maintaining



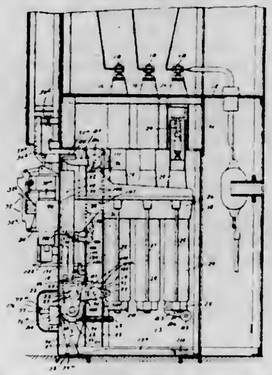
them in assembled relation, said last mentioned means being constructed and arranged to effect axial and rotative adjustments of said comb member with respect to said conduit.

1,944,092

CELL-TYPE SWITCH HAVING RAISING AND LOWERING MECHANISM THEREFOR

Frederick H. Macneil, Boston, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a corporation of Massachusetts

Application September 11, 1929
Serial No. 391,743
30 Claims. (Cl. 175—298)



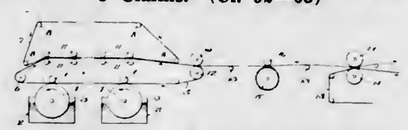
1. In a cell enclosed electric switch gear the combination of a portable switching unit including a vertical supporting frame, a platen mounted circuit interrupter carried by and extended below said frame, wheeled supports carried by said frame and interrupter for supporting the unit for horizontal movement on a floor, collapsible raising and lowering means for said interrupter carried by and forming an integral part of said frame and having its point of attachment with said frame above the bottom of the switch, said raising and lowering means having means normally disposed above the floor and movable vertically downwardly into engagement therewith to effect the raising of said unit, and cooperating means carried by said switching unit and cell which act in conjunction with said raising and lowering means to support said switch in an elevated circuit controlling position in said cell.

1,944,093

SMOOTHING ROLL IN PAPER MACHINES

Roy W. Maggart, Hamilton, Ohio

Application March 14, 1933. Serial No. 660,711
5 Claims. (Cl. 92—68)



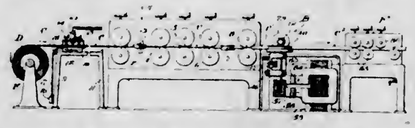
1. In a machine for making paper having two similar surfaces, the combination with an ordinary cylinder paper making machine having means in series for forming a composite web, a first press for extracting water comprising two cooperating rolls exerting high pressure on the web through an intervening coarse felt thereby impressing felt marks and a second press engaging the web with an interposed fine felt, of a pair of rolls directly engaging the web and located between the first mentioned and the second mentioned press, one of said rolls having a reticulated surface and serving to replace the felt marks left on the web by a reticulated pattern.

1,944,094

METHOD OF MAKING TUBES AND PIPES

Hugo Mayweg, Holzwickede, Germany, assignor, by mesne assignments, to Laura S. Stevenson, Wheeling, W. Va.

Application June 1, 1927. Serial No. 195,689
17 Claims. (Cl. 219—10)



1. The herein described method of making metal tubes, which consists in feeding a continuous blank, bevelling the longitudinal edges of the blank, bending the bevelled edges of the blank into flanges, bending the blank into tubular shape with the flanges on the exterior thereof and their outer edges in abutted relation and disposed to define a space between said flanges, each of said steps being performed while the blank is in motion, and progressively and continuously fusing the external flanges whereby the fused metal will run into and fill the space between and thereby unite the edges of the blank as fast as the tubular shape is produced.

1,944,095

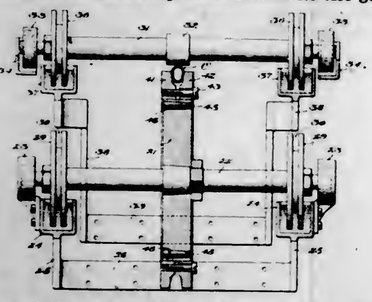
APPARATUS FOR MAKING BUTT WELDED TUBES AND PIPES

Hugo Mayweg, Holzwickede, Germany, assignor, by mesne assignments, to Laura S. Stevenson, Wheeling, W. Va.

Application June 1, 1927, Serial No. 195,690
Renewed February 1, 1933
7 Claims. (Cl. 219—6)

7. In an electric device, the combination of a lower electrode roll mounted upon a horizontal axis, said roll having an external peripheral groove constituting a seat for a tubular work piece, the walls of the seat being substantially straight and converging inwardly, an upper electrode roll of the opposite polarity disposed transversely with respect to the lower electrode roll, means for supporting the upper electrode roll and permitting the same to gravitate into con-

tact with the work-piece and to follow irregularities therein, and stop means to limit the gravitation of the upper electrode roll when there is no work-piece in the apparatus.

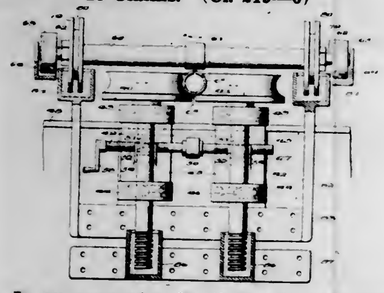


1,944,096
APPARATUS FOR MAKING BUTT JOINED TUBES AND PIPES

Hugo Mayweg, Holzwickede, Germany, assignor, by mesne assignments, to Laura S. Stevenson, Wheeling, W. Va.

Original application June 1, 1927, Serial No. 195,689. Divided and this application May 29, 1929, Serial No. 366,976. Renewed December 3, 1932

13 Claims. (Cl. 219—6)



1. In an apparatus for the continuous formation of tubing, the combination of means for continuously and progressively shaping a blank into tubular form and feeding it endwise, and an electric device disposed to receive the tubular shape as it emerges from the tube shaping means, said electric device having a pair of idle electrode rolls of the same polarity disposed to form a pass to receive guide and support the tubular work piece, another idle electrode roll of the other polarity disposed for engagement by the moving tubular work piece, and means for reciprocating said other electrode roll transversely across the work piece, said tube shaping means also constituting feeding means for feeding the tubular shape through the electric device each of said electrode rolls being adapted for rotation by frictional contact with the moving work piece.

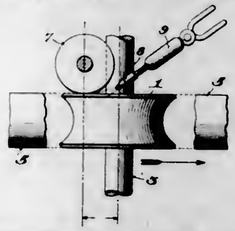
1,944,097
METHOD OF WELDING

Hugo Mayweg, Holzwickede, Germany, assignor to American Welded Tube Company, Brilliant, Ohio, a corporation of Delaware

Application August 27, 1930, Serial No. 478,255, and in Germany July 21, 1927. Renewed November 1, 1933

6 Claims. (Cl. 219—10)

1. The herein described method of continuous welding, which consists in feeding the work endwise with the parts to be welded in spaced relation, effecting a preliminary electric heating of the edge portions of the spaced parts short of fusion, then directing an igneous blast upon and between the spaced parts to fuse the same and



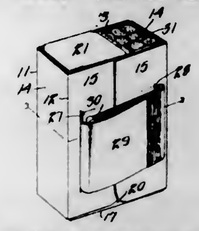
blast off impurities from the spaced parts, and then pressing the fused parts together to complete the welding operation.

1,944,098
CIGARETTE PACKAGE

Bruce McPherson, Greenville, S. C.

Application May 23, 1933. Serial No. 672,476

7 Claims. (Cl. 206—48)



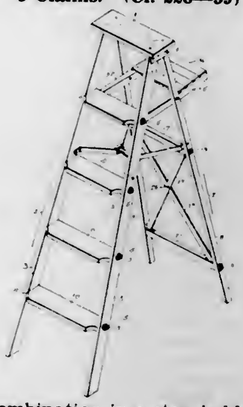
1. A container for a package of cigarettes comprising a T-shaped blank, the ends of the top of the T adapted to be folded to form the sides and front flaps of said container and the leg of the T adapted to be folded to form the bottom, front, top and securing tab, said front flaps and front being provided with slots therein adapted to receive the free end of a match folder to hold said container in fixed position, substantially as set forth.

1,944,099
STEPLADDER

Harry L. Mearkle, Philadelphia, Pa., assignor to Philadelphia Screen Mfg. Company, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania

Application April 12, 1933. Serial No. 665,825

5 Claims. (Cl. 228—59)



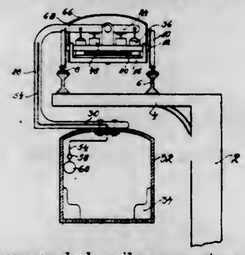
1. The combination in a step ladder, of a step section, a back section pivotally connected at its upper end to the step section, said back section having two legs spaced apart, upper and lower stays extending from one leg to the other, cross braces extending into notches formed in said stays and legs, and through bolts in the stays for firmly securing the several parts of the back section together.

1,944,100
SUSPENDED RAILWAY SYSTEM

Peter J. Medor, New York, N. Y.

Application August 30, 1933. Serial No. 687,487

12 Claims. (Cl. 104—89)



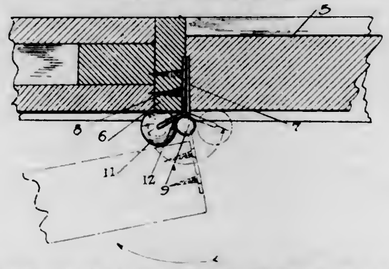
1. In a suspended railway system, a carriage adapted to travel on a two-rail track, an arm pivoted on the upper side of said carriage about an axis parallel to the direction of travel of the carriage and extending therebeneath, a car carried by said arm beneath said carriage at a relatively short distance below said track whereby said car is arranged close to said track but swings on a relatively long radius, and means mounted on said carriage and substantially fixed with respect to the plane of the track for yieldingly resisting rocking of said arm.

1,944,101
DOOR BUFFER

Ernest Meier, Oakland, Calif.

Application March 28, 1933. Serial No. 663,236

1 Claim. (Cl. 16—86)



In a device of the character described, a resilient block, means for supporting said block adjacent the hinge of a door, said means including a bent member, straddling one of the plates of a door hinge, whereby said block is maintained in a fixed position between said door and said door support.

1,944,102
BRAKING APPARATUS

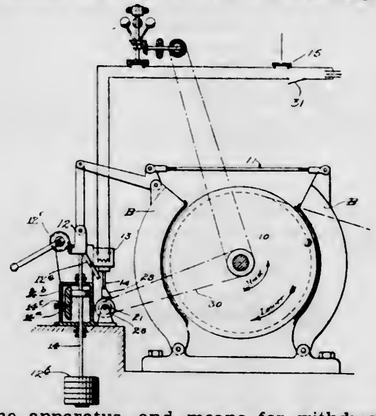
Roscoe Moore, Kingston, Pa.

Application December 11, 1930

Serial No. 501,624

9 Claims. (Cl. 188—174)

6. In combination with an apparatus having two operating phases, a control therefor including a member effective when moved to a predetermined extent, a stop for the member normally preventing movement thereof to such extent, means increasing the effective distance between the member and stop during one operating phase



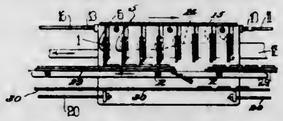
of the apparatus, and means for withdrawing the stop from the path of the member after a predetermined duration of the other operating phase of the apparatus.

1,944,103
TRANSFERRING OF INDIVIDUAL ARTICLES SUCH AS BISCUITS

Joseph Francis Naylor, Earlestown, Newton-Le-Willows, England, assignor to T. & T. Vicars Limited, Earlestown, England, a British company

Application June 6, 1932, Serial No. 615,731, and in Great Britain April 2, 1932

6 Claims. (Cl. 107—7)



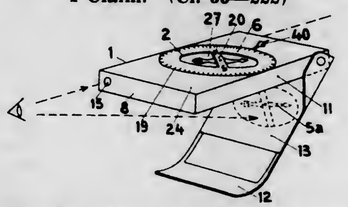
1. A method of transfer for individual articles supported on pans on a conveyor in sequence consisting in stripping rows of such articles in sequence through gaps between successive pans and conveying off the articles so stripped in a direction axial to the motion of said pans.

1,944,104
COMPASS FOR ORIENTATION

Albert Niedermann, Hongg, near Zurich, Switzerland

Application January 6, 1932, Serial No. 585,136, and in Switzerland January 20, 1931

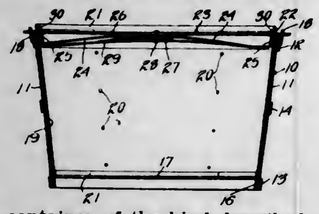
1 Claim. (Cl. 33—222)



A device for measuring horizontal angles in the field and on the map comprising a circular box, a magnetic needle pivoted therein, said box hav-

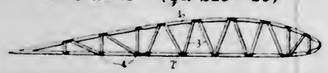
ing its opposite sides closed by transparent plates, a case, flanges on said box mounting it rotatively in a circular opening of said case the upper flange having compass graduation thereon, said case having on its bottom face marks for aligning it on the map with the map's meridian, said case having an index on its upper side cooperating with said box, said box also having an aligning mark extending diametrically thereacross, said mark being visible only from the side opposite said graduated flange and being aligned on the map with a predetermined direction.

1,944,105
FRUIT CONTAINER
Eugene H. Peters, Benton Harbor, Mich.
Application January 28, 1933. Serial No. 654,059
7 Claims. (Cl. 217—124)



1. A container of the kind described comprising a body portion having a flat bottom, a one-piece lining having re-enforcing on the edges thereof adapted to be placed in said body portion, a hoop having a plurality of curved slats secured to the underside thereof positioned within the top of said lining forming a cover member and a slat secured thereto for securing said cover, lining and body portion together, substantially as set forth.

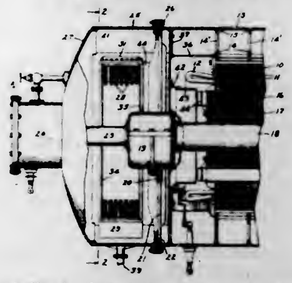
1,944,106
METHOD AND PRODUCT OF ELECTRIC WELDING
Earl J. W. Ragsdale, Norristown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Continuation of application Serial No. 629,686, August 20, 1932. This application December 12, 1933, Serial No. 702,063, and in Great Britain October 28, 1930
12 Claims. (Cl. 219—10)



2. The method of spot welding cold worked austenitic stainless steels which comprises making a joint with a number of welds, utilizing for each weld a relatively high current with a brief time of effective application thereof, such as to introduce the heat into the metal sufficient to effect a weld and to quench the metal in such a brief period of time that the dwell of heat within the carbide precipitation range of temperatures is insufficient to produce carbide precipitation to such a degree as to substantially affect the resistance of the metal to corrosion, which method is characterized further by the fact that that portion of the mass of the metal which surrounds the nugget of each weld and reaches the annealing temperature, is insufficient to materially detract from the cold worked strength of the joint as a whole.

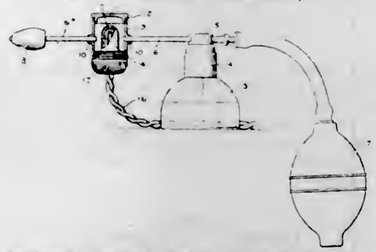
12. A welded structure comprising two overlapped pieces of cold worked austenitic stainless steel welded together by a nugget of such metal which has been fused or melted and annealed upon cooling and which is encased within said two pieces of steel, and having a thickness of unfused metal above and below the nugget at each outer surface of the two pieces of steel, the thickness of the nugget being from about 50 to 80% of the total thickness of the two pieces of steel in which it is encased, and the nugget having a zone of annealed metal surrounding it so restricted as not to substantially deleteriously affect the strength of the structure as a whole, and the metal in the zone surrounding the annealed portion being substantially free from carbide precipitation.

1,944,107
TOTALLY INCLOSED DYNAMO-ELECTRIC MACHINE
Henry G. Reist, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 9, 1931. Serial No. 521,201
7 Claims. (Cl. 171—252)



1. A totally inclosed dynamo-electric machine having stationary and rotatable members, means including a removable end-head for inclosing said machine, a cooler arranged inside of said end-head at one side of the axis of said rotatable member and extending transversely of the axis of said rotatable member in spaced relation to said end-head, means including a duct inside of said end-head and extending between said cooler and said end-head for directing cooling gas from said machine through said cooler into said end-head and for directing cooling gas from said end-head into said machine.

1,944,108
ELECTRICALLY HEATED ATOMIZER
Joseph Robinson, New York, N. Y.
Application October 3, 1928. Serial No. 310,127
3 Claims. (Cl. 128—173)



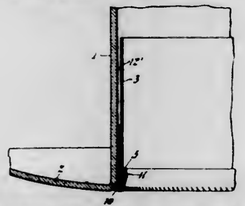
1. A device of the character described, comprising in combination, a container adapted to contain a medicament, means for delivering said medicament in the form of a spray, said means comprising an air bulb and a tube connected with said container on opposite sides of the vertical axis of the container, and a housing into which

said tube extends, said housing containing an electric heating element disposed centrally thereof in spaced relation to the walls of the housing and against which said spray strikes and is heated.

1,944,109
PROCESS FOR THE PRODUCTION OF ACETONE
Koloman Róka, Constance, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application July 23, 1931, Serial No. 552,791, and in Germany July 21, 1924
9 Claims. (Cl. 260—134)

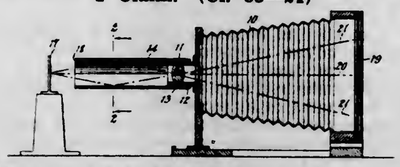
1. A process for the production of acetone consisting in causing acetaldehyde to react with water vapor at temperatures of 250 to 660° C. in the presence of a catalyst consisting of a mixture of oxygen compounds of metals which can replace one another isomorphously in carbonates.

1,944,110
SWEAT BAND
Joseph Saldich, New York, N. Y.
Application September 21, 1931
Serial No. 564,187
1 Claim. (Cl. 2—184)



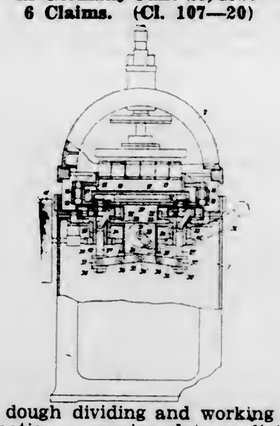
In a hat provided with a crown, a sweat band comprising a main band member and a moisture-proof band positioned to straddle the lower edge of said main band member with inner and outer portions, a concealed line of stitching arranged adjacent the lower edge extending through said inner and outer portions, said inner portion being folded over said lower edge and over said outer portion to cover said line of stitching on both sides, means for connecting one edge of said moisture-proof band to the other after the same has been folded so that both edges will be on one side of said main band member, and a line of over-and-over stitching for connecting that part of said moisture-proof band extending below said lower edge of the main band member to the crown of said hat.

1,944,111
APPARATUS FOR PRODUCING DESIGNS
Harrie V. Schieren, Montclair, N. J.
Application April 22, 1931. Serial No. 532,082
1 Claim. (Cl. 88—24)



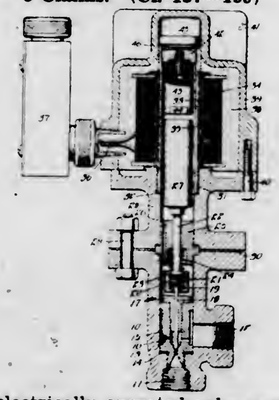
In a camera and kaleidoscopic tube combination, means for mounting the tube on the front of the camera, said means comprising a lens barrel having a lens, an annulus on the outside of the barrel situated closer to the camera front than to the forward end of the barrel, and a friction washer on the lens barrel substantially between said annulus and the forward end of the barrel receiving the tube and supporting it in the optical axis of the lens.

1,944,112
DOUGH DIVIDING AND WORKING MACHINE
Herbert Schröder, Triebes, Germany
Application May 3, 1929, Serial No. 360,207, and in Germany June 28, 1927
6 Claims. (Cl. 107—20)



1. In a dough dividing and working machine, in combination, a carrier plate, a dividing and working head moveable with respect to the carrier plate, means for imparting a gyratory movement to said head, comprising a rotatable shaft and a connection between said shaft and the moveable head, means for varying the position of said connection with respect to the center of rotation of said shaft during the operation of the device, whereby the radius of gyration of said head may be varied from zero to a maximum value.

1,944,113
SOLENOID SHUT-OFF VALVE
Francis Shenton, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a corporation of Pennsylvania
Application April 2, 1932. Serial No. 602,823
3 Claims. (Cl. 137—139)



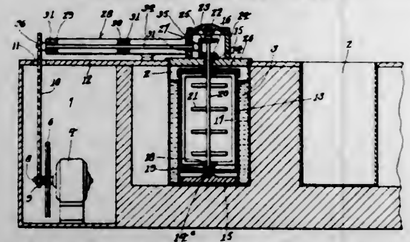
1. An electrically operated valve comprising a lower casing containing the valve elements and an

upper casing containing the electrical elements, said valve elements comprising an inlet port and an exhaust port, a removable valve seat block between said ports, a valve stem, a valve stem guide carried by said removable valve seat block, a flexible joint in said valve stem, an armature secured to the upper end of said valve stem, a non-magnetic sleeve surrounding said armature and carried by said valve casing, a gas-tight joint between said sleeve and casing, a plug in the upper end of said sleeve, a stationary armature secured to said plug, a magnet carried by said upper casing and loosely surrounding said sleeve, said upper casing and magnet being adapted to be removed from said valve casing without disturbing said valve elements, substantially as set forth.

1,944,114
ICE CREAM FREEZING ATTACHMENT

Nels T. Skowlund, Marinette, Wis.

Application June 6, 1932. Serial No. 615,696
3 Claims. (Cl. 259—105)



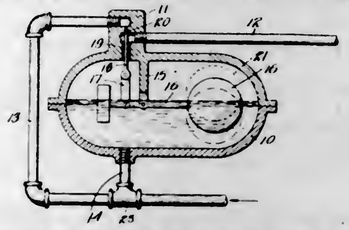
1. In a portable ice cream freezing attachment for mechanical refrigerators of that type including a well for receiving a freezer can containing cream scraping and agitating devices, a portable structure consisting of an apertured closure for the can, an axially apertured closure for the well, inner and outer rotatable elements for operating said devices, said elements being arranged in concentric relation and with said inner element extending from the ends of said outer element, said outer element extending through the apertures of and permanently coupling said closures together, a gear box having a closed end, an open end and an opening in its side, the open end of said box being seated against one face of the well closure, said inner element being journaled in the closed end of said box, a gear within said box, fixed to one end of said outer element and opposing said face, a gear within said box, fixed to said inner element in proximity to said closed end and spaced from said other gear, an extension integral with said side adjacent the opening in the latter and disposed at right angles to said box, said extension being formed with spaced apertured means for the passage of holdfast devices to detachably anchor said structure upon the top of the refrigerator, and a driven shaft journaled in said extension, extending into said box and provided with means meshing with said gears for operating them.

1,944,115
REFRIGERANT CONTROL FOR ICE MACHINES

Norman M. Small, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a corporation of Pennsylvania

Application May 24, 1930. Serial No. 455,311
2 Claims. (Cl. 137—103)

1. The combination with the liquid supply line to an evaporator of a float chamber, a valve controlling flow of liquid refrigerant through the supply line, a float mounted in said chamber and connected to said valve, said float operating to open it upon a rise of liquid in the chamber whereby only liquid refrigerant is delivered through

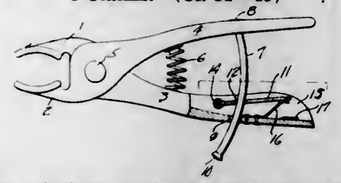


the liquid supply line, a suction line from the bottom of said chamber extending into said liquid supply line whereby passage of liquid through the supply line will create a suction in the bottom of the said chamber, substantially as set forth.

1,944,116
LEVER LOCKING DEVICE

Edward A. Stratman, San Leandro, Calif.

Application May 26, 1930. Serial No. 455,479
4 Claims. (Cl. 81—49)

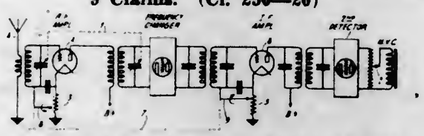


1. In a locking device, relatively movable opposed members, a curved rod fixed to one of said members and intersecting the other of said members, a locking plate on the last named member having an opening therein through which the rod is slidable, and a spring on the last named member urging said plate to a position such that the plate will frictionally grip and prevent unintentional movement of the rod in one direction, and means for rendering said plate inoperative to lock said rod.

1,944,117
SUPERHETERODYNE RECEIVER

William S. Barden, Grasmere, Staten Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application April 1, 1933. Serial No. 663,905
9 Claims. (Cl. 250—20)



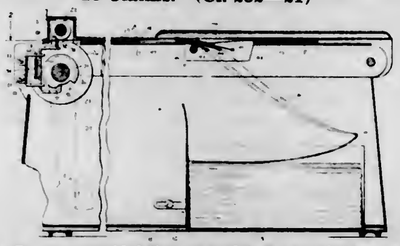
1. A method of reducing undesired response in superheterodyne reception, which undesired response is produced by the heterodyning of at least two undesired carriers differing by substantially the operating intermediate frequency, which consists in collecting the undesired carrier energy and the desired signal energy, reducing the amplification of the said collected energies substantially below a predetermined normal amplification level, impressing the amplified energies upon a frequency changer whereby a desired intermediate frequency component derived from said desired signal energy is produced and an undesired intermediate frequency component derived from the product of said two carriers is produced, and increasing the amplification of said desired and undesired components substantially above a normal amplification level, and maintaining the ratio of said amplification increase to said amplification reduction at a maximum.

CARNEGIE LIBRARY OF ATLANTA

1,944,118
MANIFOLDING

William G. Borchers, Hoboken, N. J., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey

Application March 12, 1932. Serial No. 598,318
16 Claims. (Cl. 282—21)

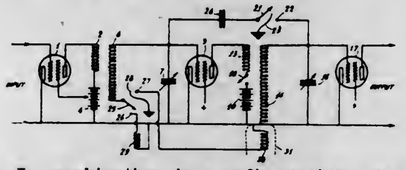


1. In a manifolding machine, a platen over which superposed worksheet strips are advanced from a supply compartment; strip-advancing means adapted to release the strips for aligning operations; and means including a plurality of superposed strip-separating and tensioning plates in advance of said supply compartment for producing retrograde movement of the strips when released by said advancing means.

1,944,119
CONVERTIBLE BAND PASS RECEIVER

Rene A. Braden, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 27, 1930. Serial No. 456,024
13 Claims. (Cl. 179—171)



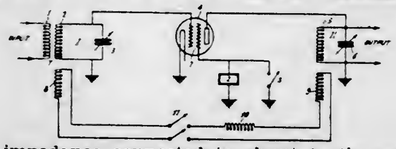
1. In combination, in a radio receiver, one or more stages of radio frequency amplification, at least one of said stages including an electron discharge tube having a tuned input circuit, a second tuned circuit coupled to the output circuit of the tube, an additional coupling path between said tuned input circuit and said second tuned circuit, and means for selectively rendering said tube operative and additional coupling path inoperative, or said tube inoperative and said path operative, to receive signals from distant and local points respectively.

1,944,120
CONVERTIBLE BAND PASS AMPLIFIER COUPLING

Rene A. Braden, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 18, 1930. Serial No. 461,875
10 Claims. (Cl. 179—171)

1. An amplifier circuit comprising in combination an electron tube having an anode, cathode control electrode and screen element, sources of voltage of suitable magnitude for the electrodes, input and output circuits, a direct current path connected to the screen element, and in addition,

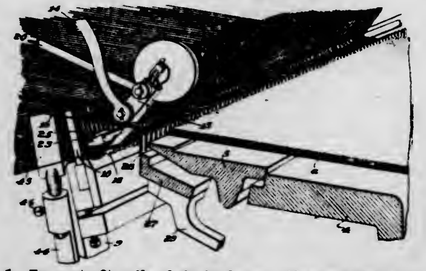


an impedance connected in shunt to the path and so connected between the cathode and screen element that all the alternating current flowing into or out of the screen element must pass through said impedance.

1,944,121
TUFT PILE FABRIC LOOM

Joseph A. Coyle, Amsterdam, N. Y., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

Application June 13, 1933. Serial No. 675,519
8 Claims. (Cl. 139—9)



1. In a tuft pile fabric loom, the combination of the lay having a reed, a warp pitch controller having teeth, means for moving the warp pitch controller to project the teeth between the warp threads to maintain the latter in proper laterally separated relation, a selvage finger or plate extending between the selvage cords and warp threads, and means for moving the selvage finger or plate towards the fell of the cloth on the beat up to maintain widthwise spread of the warp when the warp pitch controller is temporarily withdrawn from the warp on the beat up.

1,944,122
GAS SCRUBBING

Harvey Rome Fife, Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application July 29, 1932
Serial No. 626,209
7 Claims. (Cl. 23—2)

1. Method of treating aqueous solutions used in gas treating operations and which contain an amine and which tend to foam which comprises bringing at least a portion of the solution into contact with activated carbon.

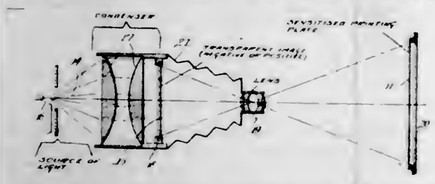
1,944,123
PHOTOGELATIN PRINTING

Jacob A. Fleischmann, Walton W. Sullivan, and Frank G. Sullivan, Cleveland, Ohio, assignors to Gardner Abbott, Cleveland, Ohio

Application September 4, 1930. Serial No. 479,724
8 Claims. (Cl. 95—5.6)

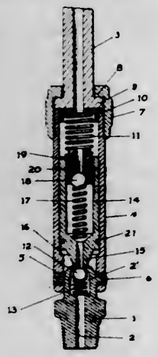
1. The process of making photo-gelatin printing plates that comprises graining a suitable plate

to take a coating, coating the grained surface with a gelatin and drying the same, applying a second coating of gelatin which contains a sensitizer of the potassium bichromate type, baking the coated plate at approximately 90° F. for a pe-



riod of about 3 hours, exposing the baked plate without the interposition of a screen to high intensity actinic rays from a carbon-arc projected directly through a transparent image for a period of minutes, and developing the light struck plate in flowing water.

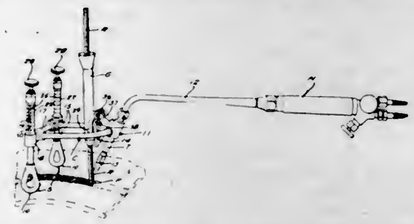
1,944,124
SWIVEL COUPLING JOINT
Louis Goodman, San Francisco, Calif., assignor to State Holding Co., Inc., a corporation of California
Application May 18, 1929. Serial No. 364,087
4 Claims. (Cl. 285—175)



1. A coupling joint for connecting a pipe section and an apertured plug comprising an elongated tubular sleeve provided with means at one end adapted to swivelly connect to an end of the pipe section and means at the opposite end for connecting to the plug, an elongated tubular metallic nozzle within the sleeve arranged with substantially its entire outer surface in direct sliding contact with the inner surface of the sleeve and means yieldably urging the nozzle toward the plug, the end of said nozzle adjacent the plug being tapered to make a direct contact within the aperture of the plug.

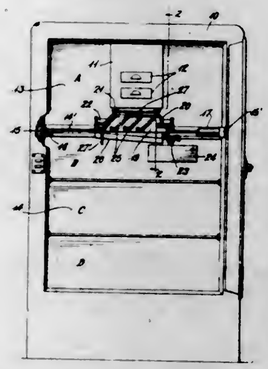
1,944,125
WELDING AND CUTTING APPARATUS
John M. Halbing, Bloomfield, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application July 23, 1932. Serial No. 624,230
11 Claims. (Cl. 266—23)

1. In combination with welding or cutting apparatus; supporting means therefor adapted to rest upon the work being operated upon; said supporting means including stationary sleeves and stems slidably received therein; and means operable by hand for effecting an exclusively



axial relative movement between the stems and sleeves.

1,944,126
REFRIGERATOR STRUCTURE
Robert John, New York, N. Y.
Application November 10, 1933
Serial No. 698,111
32 Claims. (Cl. 62—89)



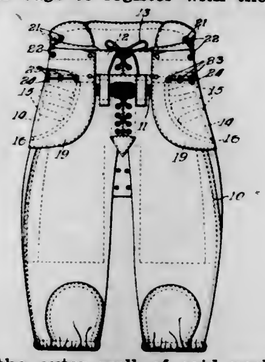
1. In a refrigerator, an evaporator, an ice freezing compartment, a thermally conducting shelf providing upper and lower food compartments in said refrigerator, sealed against air movement from one compartment to the other, said evaporator positioned partly in said upper compartment and partly in said lower compartment.

14. A refrigerator comprising evaporating means, an ice freezing compartment cooled thereby, an upper food compartment and a lower food compartment defined by a thermally conductive partition, said partition being provided with sealing means insulated at all its points of connection with the walls of said cabinet whereby to prevent thermal conduction from said walls to said partition.

1,944,127
FOOTBALL GUARD
Ralph R. Jones, Evanston, Ill.
Application June 27, 1931. Serial No. 547,351
4 Claims. (Cl. 2—23)

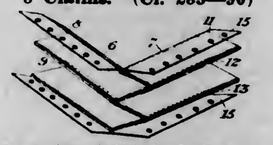
1. The combination with a pant body, having a waist guard member extending upwardly from the waist portion of said body and surrounding the upper waist portion of the wearer's body, of a pocket formed on the outer pelvic portion thereof, said pocket being open at the top and provided with a line of lacing eyelets at the top of its outer wall and also at a line below the top thereof; a pelvic guard member arranged loosely

within said pocket and having a line of eyelets at its upper edge to register with the lines of



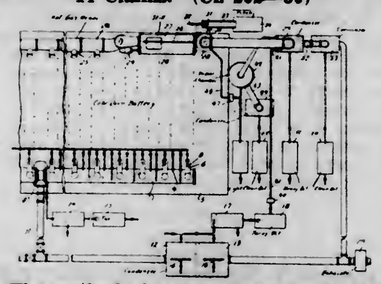
eyelets in the outer wall of said pocket; and lacings for said sets of eyelets.

1,944,128
METALLIC EXPANSION JOINT
William Heigh, Cambuslang, Scotland, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey
Application March 26, 1931, Serial No. 525,440, and in Great Britain May 9, 1930. Renewed May 17, 1933
8 Claims. (Cl. 285—90)



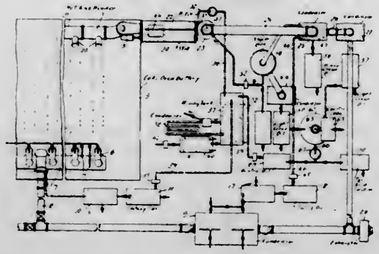
1. An expansion joint including a side plate and an end plate, each formed with a series of corrugations, and a corrugated corner piece connecting the side and end plates, said corner piece being shaped to form limbs extending so that one limb lies within a corrugation on the other limb.

1,944,129
DISTILLATION OF TAR, ETC.
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application August 30, 1929. Serial No. 389,345
14 Claims. (Cl. 202—30)



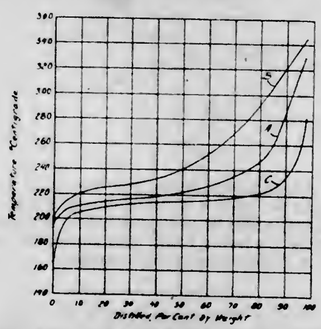
1. The method of recovering by-products from hot coke oven gases, which comprises collecting the gases from a plurality of ovens in a gas collector main while still hot, subjecting the gases in this main to regulated cooling in order to produce a tar with a melting point between 90° F. and 115° F., cooling the gases leaving the collector main to separate a tarry oil therefrom and distilling the tarry oil.

1,944,130
OPERATION OF THE BY-PRODUCT RECOVERY SYSTEM OF A COAL DISTILLATION PLANT
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application September 25, 1929
Serial No. 395,118
16 Claims. (Cl. 202—30)



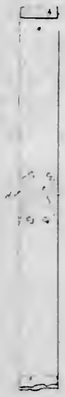
1. In the operation of the by-product recovery system of a coal carbonization plant, the process which comprises cooling the hot fresh coal carbonization gases in successive steps, one step being regulated to separate a heavy tar and flushing the cooler with tar or pitch during the separation of heavy tar, while retaining in the gases a substantial quantity of pitch constituents, separating in a subsequent step a tarry oil containing such pitch constituents, distilling the tarry oil to pitch, and blending the pitch with the heavy tar.

1,944,131
RECOVERY OF TAR ACIDS
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application April 19, 1930. Serial No. 445,617
9 Claims. (Cl. 202—67)



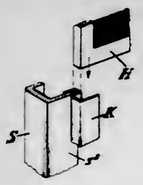
1. The improved method of recovering coal tar acids, which comprises fractionally cooling the coal distillation gases from a coal carbonization plant so as to recover a heavy tar relatively low in coal tar acids and a tar oil of relatively high coal tar acid content, and separately recovering the coal tar acids from the tar oil.

1,944,132
ROLL FILM FOR PHOTOGRAPHIC CAMERAS
Wilhelm Naewiger, Dresden, Germany
Application August 5, 1933, Serial No. 683,825, and in Germany January 4, 1933
1 Claim. (Cl. 95—9)



A spool for photographic purposes, comprising a continuous opaque backing strip and a plurality of sensitized portions of film mounted successively thereon in spaced relation, said strip being provided in the middle between the adjacent ends of two successive films with perforations by which two triangular portions and two frusto-triangular tongues at the ends of the separated backing are formed, the triangular portions being gummed on their inner side.

1,944,133
VENTILATOR SCREEN
Frank L. Ricker, Portland, Maine, assignor, by mesne assignments, to The Burrowes Corporation, Portland, Maine, a corporation of Maine
Application July 2, 1928. Serial No. 289,829
5 Claims. (Cl. 156—14)



1. A retaining member for use with a flanged sash member and a screen, comprising a folded sheet metal strip of resilient metal having a fold presenting a screen guide and a reverse fold presenting a flange clamping member.

1,944,134
INSULATOR ASSEMBLING MACHINE
John Cullen Robertson, Annapolis, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a corporation of Maryland
Application May 29, 1930. Serial No. 457,483
14 Claims. (Cl. 18—1)

1. A machine for assembling an insulator of the type having metal parts, comprising a stationary support, means for temporarily mounting the insulator thereon, a vertically movable pressure applying device, and means carried by said pressure applying device for holding the



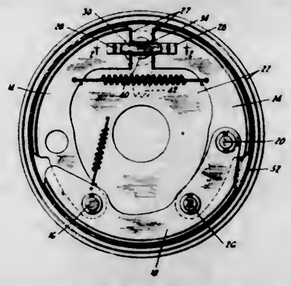
metal part to be connected with the insulator, said means conforming to the character of the respective metal parts and being interchangeable.

1,944,135
GASKET
Basil W. Dennis, Columbus, Ohio, assignor to General Fire Extinguisher Company, Providence, R. I., a corporation of Delaware
Application April 9, 1928, Serial No. 268,528
Renewed December 24, 1931
11 Claims. (Cl. 285—90)

1. The combination with a pair of substantially aligned conduits having communicating flange portions spaced apart, of means for providing a fluid tight seal for the space between the flanged end portions of said conduits, said sealing means including a gasket having flexible walls, and spring means arranged between said walls for applying pressure to said gaskets to cause parts of the surfaces thereof to positively and forcibly engage portions of each of said conduits in a fluid tight manner while permitting substantial movements of mutual approach and recession both laterally and axially of the meeting portions of said conduits.

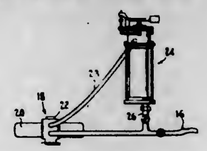
1,944,136
BRAKE
Rudolph A. Goepfrich, South Bend, Ind.
Application May 16, 1929. Serial No. 363,435
9 Claims. (Cl. 188—78)

1. Operating mechanism for a brake of the internal expanding type comprising a floating wedge member and means for imparting a lineal movement thereto comprising a lever actuated screw member pivotally connected to said wedge member, together with a channel-shaped



bracket member surrounding said lever and screw to house the same.

1,944,137
DISPENSING APPARATUS
Roy Jackson, New York, N. Y., assignor to Dora Jolkower, New York, N. Y.
Application July 24, 1933. Serial No. 681,829
20 Claims. (Cl. 225—9)



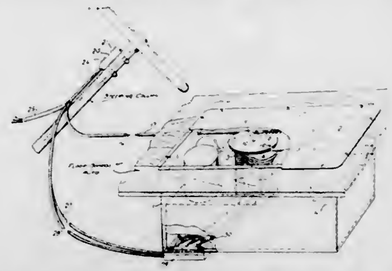
1. In apparatus for dispensing a froth-forming liquid including a source of supply of the froth-forming liquid under pressure, the liquid being intended to be dispensed at a point removed from the supply source but where the pressure head of the liquid is still higher than atmospheric, the apparatus including means for determining a charge of liquid and froth in predetermined proportional relationship, the determining means including a measuring chamber, an inlet to the chamber, means connecting the inlet with the liquid supply, and means associated with the chamber and the connecting means for venting the chamber on flow of liquid into the chamber through the inlet.

1,944,138
ELECTRICAL APPARATUS
Walker J. King, Elmhurst, Ill., assignor, by mesne assignments, to Grigsby-Grunow Company, a corporation of Illinois
Application January 12, 1931. Serial No. 508,099
1 Claim. (Cl. 173—311)



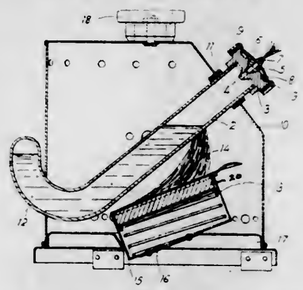
A gas-tight current lead-in comprising a metal cylindrical shell having an inner tapered wall, a ceramic sleeve having an outer tapered wall disposed within said shell and extending substantially the entire length thereof, a solid conducting core having a thick central portion tapering down on both sides therefrom disposed within said sleeve and layers of glass joining and sealing opposing surfaces along substantially the entire length of said shell to form a unitary structure.

1,944,139
RADIO APPARATUS
William P. Lear, Chicago, Ill., assignor to Grigsby-Grunow Company, Chicago, Ill., a corporation of Illinois
Application August 3, 1931. Serial No. 554,751
3 Claims. (Cl. 250—14)



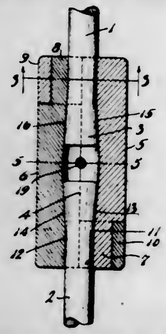
1. In combination with the floor board of a vehicle, the bottom of said floor board being exposed to the weather, a radio chassis comprising a metallic container, said container having a flange around the opening thereof over which a cover is adapted to fit, said container being disposed in an opening of said floor board with the flange on the protected side of said floor board projecting beyond the edges of said board opening, radio instrumentalities removably disposed as a unit in said container, a control cable leading from said container, said cable being permanently sealed to said container and terminating on the inside thereof in a plug, and a cooperating plug on said radio unit adapted to connect with said plug on the container when said radio unit is in said container and disconnect therefrom when said unit is removed.

1,944,140
MEDICAL GAS PRODUCER EMPLOYING A HEATED LIQUID
Jean Noirot, Paris, France
Application January 15, 1930, Serial No. 421,025, and in France January 24, 1929. Renewed November 4, 1933
5 Claims. (Cl. 167—3)



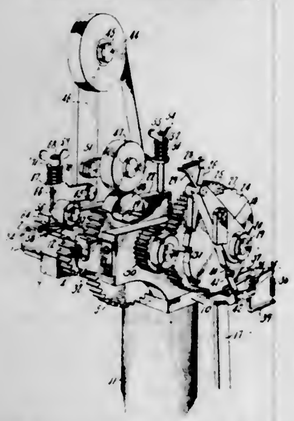
1. A medical gas producer using heated liquid having a tube with two branches in communication at the bottom juncture, one branch being vertical and closed at its upper end and containing a column of air and the other branch being inclined and provided with a cap having a narrow orifice, and means for heating the inclined branch at a point gradually descending so as to follow substantially the movement of the level of the liquid.

1,944,141
CONNECTER
Irvin Stidd, Mount Jewett, Pa., assignor of one-half to Samuel C. Beers, Mount Jewett, Pa.
Application March 29, 1933. Serial No. 663,408
4 Claims. (Cl. 287—108)



3. A connecter comprising a pair of complemental grooved sections adapted to receive therewithin the ends of members to be joined together, each section comprising a semi-cylindrical portion terminating at one end in a reduced shouldered extension and at its other end in a cylindrical collar portion adapted to receive and seat on the reduced extension of the other section whereby to establish an interengaging of the sections incident to lateral expansion thereof by the members connected thereby, the ends of said members having enlargements and the grooves of the connecter sections being reversely tapered to cause said lateral expansion when stress is applied to the members in a longitudinal direction.

1,944,142
MACHINE FOR WRAPPING WIRES
Adrian O. Abbott, Jr., Grosse Pointe Park, and George K. McNeill, Detroit, Mich., assignors to Morgan & Wright, Detroit, Mich., a corporation of Michigan
Application September 13, 1930
Serial No. 481,623
8 Claims. (Cl. 117—41)

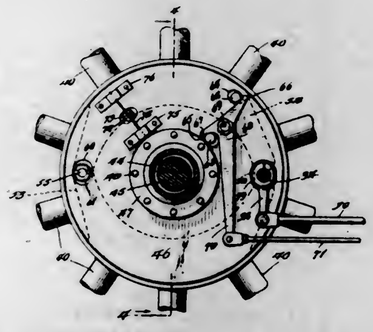


1. In a wrapping machine, a slotted wrapping tube, means for feeding wrapping material into co-operative position relative to the slot in said tube, and means for measuring and partially severing said wrapping material preparatory to a complete separation by the operation of the wrapping tube.

1,944,143
MOLDABLE COMPOSITION AND ITS PRODUCT
Howard L. Bender, Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 28, 1929
Serial No. 343,555
1 Claim. (Cl. 154—46)

A laminated product in which a surface sheet is impregnated with a resinoid of the phenol-aldehyde type substantially devoid of free phenol and including residual aldehyde largely in the form of a non-phenolic resin, and other sheets forming part of the laminated product are treated with a different resin composition.

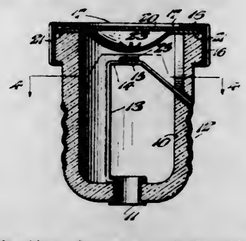
1,944,144
VEHICLE BRAKING SYSTEM
Arturo Fortini, Florence, Italy; Lodovico Fortini, administrator of the estate of the said Arturo Fortini, deceased, assignor, by direct and mesne assignments, to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application November 8, 1923, Serial No. 673,597, and in Italy April 24, 1922. Renewed December 15, 1932
54 Claims. (Cl. 188—140)



18. A motor vehicle having a pair of front wheels, a pair of rear wheels, braking instrumentalities for each pair of wheels, operating means for the braking instrumentality for one pair of wheels, and operating means for the other braking instrumentality responsive to the application of braking effort by the first braking instrumentality, said last mentioned means including means to limit the front wheel braking effort to a predetermined proportion of the rear wheel braking effort.

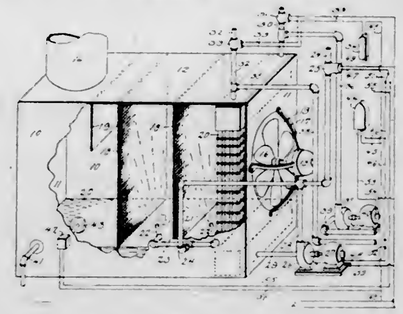
44. A brake comprising, in combination, a wheel, a drum rotatable therewith, an angularly-movable carrier adjacent the drum, a brake band, band-operating means mounted on the carrier, and an operating device for a different brake attached to and operated by angular movement of the carrier either clockwise or counterclockwise.

1,944,145
INDICATING FUSE PLUG
William H. Ginder, Haddonfield, N. J., assignor of fifty-one per cent to Isaac C. Shalkop, Philadelphia, Pa.
Application September 26, 1933
Serial No. 690,974
3 Claims. (Cl. 200—121)



2. In indicating fuses, an indicating element comprising a disc, the central part at least of which is of combustible material, the disc having its periphery in a substantial plane and the central portion depressed concavely out of said plane, said disc arranged to seat directly upon the mouth end of a plug fuse housing and to receive a transparent disc on its periphery and to form relative to said transparent disc an air pocket, said concavity arranged to extend inwardly of the mouth of the plug fuse toward a fuse link in the housing, and a flashing element attached to the indicating element and exposed on the convex face of the element and arranged to ignite and initiate combustion of the combustible material of the indicating element.

1,944,146
AIR CONDITIONING APPARATUS
Hobart B. Howry, Sioux City, Iowa, assignor, by direct and mesne assignments, to National Air Conditioning Company, Sioux City, Iowa, a corporation of Iowa
Application March 16, 1931. Serial No. 523,065
12 Claims. (Cl. 257—3)



1. In an air conditioning apparatus, a housing provided with inlet and discharge openings, means to create a current of air through the housing from one opening to the other, a radiator interposed between the openings and adapted to produce either a heating or cooling effect on the air passing therethrough, means for supplying heating and cooling fluids to said radiator, a thermostatic control for the heating fluid supply means, and a moisture responsive control for the cooling fluid supply means.

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THE

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January 23, 1934

Trade-Marks	161—No.	309,557 to No.	309,717, inclusive.
Labels	46—No.	43,125 to No.	43,170, inclusive.
Prints	31—No.	14,511 to No.	14,541, inclusive.
Reissues	9—No.	19,056 to No.	19,064, inclusive.
Designs	33—No.	91,383 to No.	91,415, inclusive.
Patents	721—No.	1,944,147 to No.	1,944,867, inclusive.
Total	1,001		

Adjudicated Patents

(C. C. A. N. Y.) Flaherty reissue patent, No. 16,803, for low-viscosity lacquer and film produced therefrom, claims 2, 3, 6, 8, 9, 12, and 17, admittedly infringed, *Held* valid. *E. I. du Pont de Nemours & Co.* v. *Glidden Co.*, 67 F.(2d) 392.

(C. C. A. Mich.) De Boer design patent, No. 84,811, for combination ash receiver and electric lighter, *Held* not infringed. *Applied Arts Corporation* v. *Grand Rapids Metalcraft Corporation*, 67 F.(2d) 428.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,823,355, L. S. Frappier and E. Boecking, Telescope framing device, decided December 6, 1933, claims 1, 2, 3, 6, and 9.

Pat. 1,885,307, Sarkes Tarzian, Volume control, decided December 28, 1933, claims 13 and 21.

Notice of Cancellation

U. S. Patent Office, *Washington, Jan. 10, 1934.*

United States Chemical Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the Marine Chemicals Company, Ltd., of 148 Montgomery Street, San Francisco, Calif., to effect the cancellation of the trade-mark registration of the United States Chemical Co., of 427 Third Avenue, Pittsburgh, Pa., No. 144,485, dated July 5, 1921, and the notice of such proceeding sent by registered mail to the said United States Chemical Co. at the said address having been returned by the post office as undelliverable, notice is hereby given that unless said United States Chemical Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

RICHARD SPENCER,
First Assistant Commissioner.

Drawings

PRECAUTIONS TO BE OBSERVED IN FORWARDING DRAWINGS TO THE UNITED STATES PATENT OFFICE

Where drawings are to be filed in connection with an application for Letters Patent in the United States Patent Office, each sheet, before it can be accepted by the Office as a part of the application, must be signed in the name of the inventor at the lower right-hand corner, either by him or by an attorney whose written authorization from the applicant is filed in connection with the application. The signatures should never be written on a line parallel with the longer edges of the sheet, one of the shorter edges being always regarded, for the purpose of locating the signatures, as the lower edge of the sheet. The signatures must all be within the margin-lines of the sheet and below the lines of the drawing. The title of the invention should be written with pencil on the back of each sheet of drawings.

When there are filed on the same day two or more applications by the same inventor, each of the documents and drawings belonging to the same application should have placed thereon the same letter or number, which should be different from the letter or number placed upon those of any other of the applications.

It is desirable that all parts of the complete application, including the drawings, be deposited in the Office at the same time. Should, however, the other parts of the application be filed before the drawings are sent, the latter when forwarded should be accompanied by a letter stating the number of sheets inclosed, and that the drawings are to be filed with the other parts of the application, giving the date at which such other parts were filed in the Office, the name of the inventor, and title of the invention. If the application has received a serial number, that should also be given, and it should be indorsed with pencil on the back of each sheet of drawings. The letter should also state, if such be the case, that the new drawings are to be substituted for those previously filed.

Condition of Applications Under Examination at Close of Business January 6, 1934

(Total number of applications awaiting action, excluding Trade-Mark Division, 42,070; Trade-Mark Division, 1,104. Oldest new case, August 17, 1933; oldest amended, August 17, 1933.

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Sept. 15	Sept. 16	451
6708	2. HERRMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Sept. 11	Sept. 11	733
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Oct. 9	Oct. 7	637
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Sept. 27	Sept. 27	380
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Oct. 6	Oct. 6	475
4808C	6. LEWERS, A. M., Carbon Chemistry	Sept. 8	Sept. 14	970
5725	7. JARBOE, C. G., Optics; Photography	Sept. 22	Sept. 21	852
3887	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov. 6	Nov. 13	251
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 2	Nov. 3	442
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Sept. 23	Oct. 3	459
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 8	Sept. 7	573
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms.	Sept. 27	Sept. 27	545
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Oct. 24	Oct. 24	500
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Nov. 1	Nov. 1	356
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 24	Sept. 24	1,080
5612	16. SPENCER, C. J., Telegraphy; Telephony	Oct. 27	Oct. 27	396
5701	17. ARMSTRONG H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 8	Sept. 7	829
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Nov. 7	Nov. 7	288
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Sept. 5	Sept. 1	1,072
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Nov. 17	Nov. 21	161
7733	21 THOMPSON, T. J., Textiles; Cloth Finishing	Sept. 7	Sept. 7	852
5724	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Sept. 7	Sept. 7	860
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Sept. 8	Sept. 7	527
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 12	Oct. 12	517
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 7	Sept. 7	910
5893	26. ADAMS, W. M., Electricity, Generation; Motive Power	Nov. 7	Nov. 15	288
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Oct. 6	Oct. 6	465
4628	28. BENSON, A. R., Internal-Combustion Engines	Sept. 6	Sept. 6	793
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Oct. 24	Oct. 24	255
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 6	Oct. 6	569
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Sept. 6	Sept. 6	1,060
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 20	Oct. 23	398
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Sept. 11	Sept. 11	802
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Sept. 2	Sept. 2	983
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Sept. 19	Sept. 18	745
7624	36. McFAYDEN, A. D., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Aug. 17	Aug. 17	1,242
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 6	Oct. 7	406
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Sept. 6	Sept. 6	639
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 26	Sept. 29	689
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Sept. 20	Sept. 22	960
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Sept. 25	Sept. 21	436
5882	42. CUTTING, H. O., Electric Signaling	Sept. 8	Sept. 7	848
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Sept. 1	Sept. 1	1,016
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Sept. 7	Sept. 6	750
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Nov. 20	Nov. 25	226
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Oct. 15	Oct. 15	366
7600	47. BARKER, H., Clutches; Brakes; Motors	Sept. 9	Sept. 9	973
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Sept. 12	Sept. 12	614
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Sept. 6	Sept. 6	698
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Sept. 8	Sept. 15	943
5628	51. BACKUS, C. D., Radiant Energy	Oct. 11	Oct. 11	704
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Oct. 7	Oct. 20	486
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Oct. 20	Oct. 20	388
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Sept. 20	Sept. 19	723
6887	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	Oct. 11	Oct. 11	287
	Designs	Dec. 7	Dec. 11	361
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Sept. 18	Sept. 11	747
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 30	Oct. 6	292
5605	58. DOWELL, E. F., Abrading	Nov. 6	Nov. 9	231
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Sept. 18	Sept. 18	602
5896	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 6	Sept. 6	837
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus.	Sept. 14	Sept. 18	452
3876	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Sept. 9	Sept. 11	1,190
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Sept. 16	Sept. 17	790
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Oct. 6	Oct. 6	856
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Sept. 7	Sept. 7	844
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—Trade-Marks	Dec. 6	Dec. 21	970
	Labels and Prints	Dec. 11	Dec. 23	134

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Jacques Duclaux

No. 3,161. Decided December 4, 1933

Patentability—Reinforced Glass Sheet and Method for Making.

Claims for a reinforced glass sheet and method of making the same *Held* unpatentable over the prior art.

Appeal from the Patent Office. Affirmed.

Mr. Vernon M. Dorsey for Duclaux.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

Garrett, *J.:*

This appeal seeks a review by this court of the decision of the Board of Appeals of the United States Patent Office, affirming the decision of the Examiner denying patentability, in view of the prior art, of the two claims involved in appellant's application, entitled, broadly, "Improvements in reinforced glass sheet and method of manufacturing the same."

Claim 1 is for the product and reads as follows:

1. A compound sheet consisting of two sheets of glass having interposed between them a strengthening sheet of other transparent material, the inner faces of the glass sheets which are in contact with the strengthening sheet being ground and smoothed and the indices of refraction and the dispersion being approximately the same for the glass sheets and for the interposed sheet of strengthening material.

Claim 2, for the process, reads:

2. The heretofore described process of making a compound sheet which consists in interposing a sheet of strengthening material between and in contact with two sheets of glass, the inner faces of the glass sheets which are in contact with the strengthening sheet being ground and smoothed and the indices of refraction and the dispersion being approximately the same for the glass sheets and for the interposed sheet of strengthening material, and uniting said sheets of glass to said sheet of strengthening material.

The references cited are: Wood, 830,398, September 4, 1906; Shuman, 1,355,625, October 12, 1920; Vandier (French), 622,664, March 7, 1927; Long, 1,668,853, May 8, 1928; Brown, 1,692,619, November 20, 1928.

It will, perhaps, conduce to a better understanding of this case, particularly by those not versed in the glass art, to recite at the outset that, according to the Examiner, the words "grinding," "smoothing" and "polishing," as used in the art, have certain technical meanings.

The Examiner says:

It should perhaps be stated that "grinding" here means rough grinding, "smoothing" means intermediate or fine grinding, and "polishing" means finest grinding, as with rouge (see pages 474–475 of Text Book of Glass Technology, Hodkin & Cousen, D. Van Norstrand Co.).

Appellant's application contains no drawing, and the specification is quite brief. It recites that reinforced glass is commonly made by cementing a strengthening sheet of transparent and non-brittle substance between two sheets of glass, and the particular feature for which novelty and invention are claimed apparently lies, as expressed in the specification, in

grinding and smoothing only the surfaces of the two glass sheets which are in contact with the strengthening sheet.

In other words, as we understand the operation, appellant grinds and smooths *but does not polish* the inner surfaces of the two glass sheets between which the strengthening material is interposed, and, according to the specification, these not being polished, striations are left in the surfaces of the sheet, but these are "rendered invisible" by the interposition of the strengthening sheet,

provided that said strengthening sheet has at least superficially the same refractive index and dispersion as the two external sheets of glass.

It it claimed that the omission of the polishing operation (which operation, it is insisted, is used, or "proposed," in the prior art, in addition to the grinding operation, to overcome conditions due to irregularity in the surfaces of sheets of glass drawn or rolled) materially lessens the cost of production.

Neither the specification nor the claims designate *eo nomine* any particular transparent material to be used as a strengthening sheet for interposition between the glass sheets, and no claim is made that any novelty resides in this feature, nor is there any claim of novelty in the "indices of refraction and the dispersion" feature. Some of the cited patents teach the use of different substances for an interposing strengthening sheet, to be used in their respective operations, such as a cellulose composition, celluloid, and the like.

In the final analysis, the issue must turn upon the effect of appellant's omission to polish—that is, whether this is patentable or non-patentable in view of the prior art.

The specification of the patent to Brown teaches the use, in making laminated glass, of a non-brittle material "such as a cellulose composition," interposed between sheets of glass having slight waves or corrugations therein, but whose inner surfaces, at least, as stated relative to what is designated as bullet-proof glass, "are not ground and polished."

The specification alludes, in one place, to sheet glass produced on the Colburn type of machine, but whether Brown confines himself to use of this one type does not clearly appear. None of his claims mentions this type by name.

It seems to us that Brown clearly teaches the use of sheets of glass neither ground nor polished on their inner surfaces, but having waves or corrugations whose effects in distorting vision are overcome by the arrangement which he describes, one feature of which is the interposition of the transparent material between them, the union being made by the application of heat and pressure.

The Shuman patent relates to wire glass, and the specification recites:

In constructing my improved wire glass, I unite a sheet of wire glass (preferably having one surface polished) to a sheet of plain glass (also preferably having one surface polished) by a sheet of celluloid, gelatin or any similar transparent or translucent material of organic composition which may be welded or attached to the glass by any of the processes at present well known, the celluloid or gelatin carbonizing under action of heat and thus presenting a more or less athermic layer to stop the passage of the radiant heat.

At another point in that specification it is said:

* * * The surfaces of the wire glass may be polished or not, as desired, but in the most approved form of my present invention, I prefer that the surface be welded to the celluloid or its equivalent shall be polished. The reinforce glass layer B and B' may be of any suitable glass but preferably polished plate, or at least having one of its surfaces polished. The layer C is preferably a sheet of celluloid welded or cemented or pasted to the glass surfaces.

The patent to Long is for a process of uniting vitreous pieces "such as glass," and the specification states:

In carrying out my invention, the surfaces to be joined are carefully finished to fit one against the other throughout the joint to be made. However, in so finishing the surfaces I avoid polishing the same, although the surfaces should be relatively smooth. I have found that a surface produced by grinding with the finest emery is suitable for the joint hereinafter described, whereas a polished surface finished with rouge is not suitable. I paint the two surfaces so prepared with a solution of a synthetic resin such as a phenol and formaldehyde condensation product, for instance bakelite dissolved in a suitable solvent such as ethyl or methyl alcohol, or acetone, etc., the former being preferred.

In view of the fact that there is no real contention here upon the "refraction and dispersion" feature of the material interposed, that need receive no further attention. It seems to be present in all the references cited with a use entirely similar to the use made of it by appellant.

We are unable to see wherein by omitting the polishing operation appellant has performed an act of invention over the prior art.

It is argued for appellant that, while Brown uses glass not polished in the technical meaning of that term, it is yet a glass which has a natural polish by reason of its method of production. In regard to the glass of Shuman, it is appellant's contention that where Shuman says "The surfaces * * * may be polished or not, as desired," he "did not mean to say that that surface should be only ground and smoothed but merely that it might be left in its natural state."

We are unable to discern any sound reason for interpreting these specifications as appellant insists—that is for holding that neither Brown nor Shuman used "polished" in its technical sense, but even if that be conceded to be correct, it seems quite clear that Long does use the word in its technical sense.

The argument for appellant against the Long patent as an anticipatory reference seems to be based somewhat upon the character of the glass which his process produces as determined from its use, which use is stated in appellant's brief to be "in the fabrication of mirrors for reflecting telescopes, from an assembly of smaller pieces properly cemented together," and it is urged that:

* * * Long patent teaches nothing as to the adhesion to be obtained between a preformed sheet of celluloid, etc., and a glass surface by smoothing the latter. It teaches making glass-to-glass joints with a liquid adhesive merely filling the microscopic depressions in the glass surfaces, the protuberances on which surfaces are substantially in contact with each other and interlaced with each other.

We find nothing in the Long patent itself which limits his glass to the use mentioned in the brief, but, however this may be, the Long process obviously is one by which laminated glass is produced by using pieces having ground but unpolished surfaces cemented together with a transparent material.

In view of the specific teachings of the several patents cited from the prior art, we are unable to discern wherein there was any exercise of the inventive faculty in pursuing the course outlined by appellant. It would seem to require nothing more than the exercise of skill by one familiar with the art.

The decision of the Board of Appeals is affirmed. Affirmed.

Court of Appeals of the District of Columbia

DEARBORN ET AL. v. COE, COMMISSIONER OF PATENTS

No. 5,824. Decided December 26, 1933

PATENTABILITY—ART OF SHORTHAND WRITING.

Claims for an art of shorthand writing *Held* unpatentable over the prior art.

APPEAL from the Supreme Court of the District of Columbia. Affirmed.

Edgar M. Kitchin for appellants.

T. A. Hostetler for appellee.

Before MARTIN, Chief Justice, and ROBB, HITZ, and GRONER, Associate Justices.

MARTIN, *C. J.*:

This is an appeal from a decree of the Supreme Court of the District of Columbia dismissing a bill of complaint which sought the granting of a patent under section 4915 Revised Statutes (35 U. S. C. A. 63).

The bill alleged that the appellants' application for a patent had been rejected by the Primary Examiner of the Patent Office upon two grounds; first, that the subject matter claimed was not patentable under the statutes and, second, that the claims set out in the application did not disclose invention over the prior art. Appellants alleged that after the rejection of the claims by the Primary Examiner an appeal was taken to the Board of Appeals of the Patent Office, and that the Board sustained the ruling of the Primary Examiner.

The application in question contained 98 claims, of which claims 1, 5, 11, 12, 21, and 57 are illustrative and read as follows:

1. The method of forming a written record of words which comprises writing the words, using only a letter or letters of a commonly known alphabet phonetically suggestive of words or word syllables, together with capital letters representing phonetically related syllables and a limited number of nonliteral symbols having arbitrary phonetic significance when used alone or in conjunction with letters.

5. The art of recording words by employment of characters of a commonly known alphabet as shorthand involving principles including one principle under which t is used to express the word TO in infinitives only.

11. The art of recording words by employment of characters of a commonly known alphabet as shorthand involving principles including one principle under which AND is omitted in such phrases as MORE AND MORE.

12. The art of recording words by employment of characters of a commonly known alphabet as shorthand involving principles including one principle under which a comma (,) is written to express the medial or final sound of IE.

21. The art of recording words by employment of characters of a commonly known alphabet as shorthand involving principles including one principle under which c/ is written to express the sound of final ANGE, ENCE, INSE, and also ANCY, ENCY.

57. The art of recording words by employment of characters of a commonly known alphabet as shorthand involving principles including one principle under which K is written to express final ACLE, ICAL, ICLE.

In appellants' application it is stated that the invention relates to a system of abbreviated or rapid writing, and is designed to enable matter to be taken down from ordinary dictation. That ordinary shorthand and other systems in which the various syllable or word sounds are represented by arbitrary symbols take a great deal of time and hard study to learn thoroughly, and require constant practice in order that dictation of average speed may be taken down efficiently. That this is largely due to the fact that such systems require the use of arbitrary symbols with which the student has no familiarity before beginning the study of the system, and the learning of these symbols is comparable to learning a new language into which the speaker's words must be translated. That such systems are mastered with extreme difficulty, and the skill required to take fairly rapid dictation takes months, often years of practice. That ordinary shorthand and in fact any system in which the various syllable or word sounds are represented by arbitrary symbols not found upon the keyboard of an ordinary typewriter cannot be carried out upon such a typewriter, but must be performed by hand or upon a special machine. That one of the principal objects of appellants' invention is to produce a new and improved system of abbreviated writing which requires only a small part of the time and study required by the ordinary shorthand systems to master the system sufficiently to enable ordinary dictation to be taken and transcribed efficiently. That the present invention is a system of abbreviated writing employing only the letters of the alphabet and the numbers and punctuation marks which appear upon the keyboard of an ordinary typewriter. That systems of abbreviated writing in which the letters of the alphabet, numbers and punctuation marks are employed have heretofore been devised, but these systems have for the most part been memory codes and have not been reducible to a relatively few principles as is the present system.

The specifications give 95 principles for abbreviating. A few principles are noted by the Examiner and are here copied:

1. A syllable or word is expressed by the letter or letters which are most suggestive of the sound of the syllable or word. Ex., be is written b; could is written kd.

2. Omit all silent letters. Ex., know is written no.

3. When C has the sound of K, write k. Ex., could is written kd.

7. Write c to express the sound of CH. Ex., Church is written cc;

14. Write v to express final ever. Ex., whenever is written wnv; whoever is written hov.

19. Use a hyphen (-) to express the sound of medial or final and, ant, end, ent, ment, und, and ind. Ex., band is written b-; sent is written s-; raiment is written ra-; sentiment is written s- -.

95. Write only so much of a word as is necessary to suggest the word.

The record contains various references of prior patents which are claimed as anticipations of appellants' claims. From among these we select Letters-Patent issued to John S. Campbell, dated December 25, 1888, number 395,120. Campbell states in his application that his invention relates to the art of writing or printing language, its primary object being to provide a system of notation adapted for use on the ordinary typewriter by which spoken words and sentences may be printed in abbreviated form, thereby facilitating the recording of speech directly in and by the use of such typewriters in lieu of employing ordinary systems of phonography by handwriting; that his invention consists in a system of abbreviation in which the letters, signs, and characters, ordinarily placed or which may be provided on typewriting machines are employed with certain additional powers or functions and in a new relation, whereby language may be recorded in the ordinary printed characters, but in abbreviated form. Claim 1 of Campbell's application reads as follows:

1. The improvement in the art of recording speech by typewriting, consisting of abbreviating words and syllables by printing first a prefix mark designating the class or group to which the leading vowel sound of the word or syllable is assigned, and following said mark with the leading consonantal letters of such word or syllable in ordinary close succession from left to right.

In appellants' system as in Campbell's the desired abbreviation of transcribed material is accomplished by means of the elimination of certain letters from the written words, and by the adoption of one or more letters as symbols for syllables. While there is some difference in the details of the systems their underlying principles are essentially similar. Appellants' system may, in certain particulars, be an improvement over that of Campbell, but the improvement does not attain to the character of invention. [See text and citations in 48 C. J., p. 65, sec. 70]. In the Encyclopedia Britannica, article "Shorthand", a history is given of the gradual development of the various systems of shorthand, all of which, however, are necessarily based upon the principle of abbreviating the written words either by the use of arbitrary characters or of one or more letters of the alphabet to represent words or syllables.

In the lower court appellants asked leave to amend certain of their claims and to add two additional claims. The motion was denied and this ruling is assigned as error. We do not find it necessary to pass upon this assignment in view of the fact, as already stated, that the application of the appellants disclosed no invention over the prior patent issued to Campbell.

The decree of the lower court is therefore affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

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1,376,711, I. B. Levy, Pastry forming device, appeal filed Nov. 14, 1933, C. C. A., 2nd Cir., Doc. 13074, *S. & S. Cone Corp.* v. *A. Levy et al.*

1,383,381. (See 1,374,352.)

1,397,240, C. A. Snider, Vehicle wheel, filed Nov. 20, 1933, D. C., N. D. Ala. (Birmingham), Doc. 797, *C. A. Snider* v. *Jefferson Motors Co., Inc.* Doc. 798, *C. A. Snider* v. *McCormack Bros. Motor Car Co., Inc.* Doc. 799, *C. A. Snider* v. *Scouten Motors, Inc.*

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1,446,093, 1,477,125, R. M. Jackson, Fumigating applicator, filed Nov. 13, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E 111 C. *R. M. Jackson* v. *Owl Fumigating Corp. et al.*

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1,506,121, J. M. Harrison, Apparatus for exchange of heat; 1,621,881, same, Heating system; 1,729,829, same, Apparatus for the heating of ovens, filed Nov. 24, 1933, D. C., N. D. Ohio, E. Div., Doc. 4824, *Ross Industries Corp.* v. *J. C. Smith.*

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1,598,827, F. C. Kroeger, Engine starting apparatus; 1,601,146, J. B. Replogle, Switch; 1,693,998, W. A. Chryst, Electric switch, D. C., S. D. N. Y., Doc. E 62/40, *Delco-Remy Corp.* v. *Automotive Manufacturers, Inc.* Decree for plaintiff Nov. 21, 1933.

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1,611,128, J. H. Gunnison, Apparatus for making and handling aggregates, D. C. Minn. (Minneapolis), Doc. E 1387, *Pioneer Gravel Equipment Mfg. Co.* v. *Diamond Iron Works.* Dismissed for want of equity Nov. 7, 1933.

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1,810,590. (See Re. 18,230.)

1,819,033, N. Abramson, Miniature flasher, D. C., S. D. N. Y., Doc. E 64/2, *N. Abramson* v. *W. Thomashower* (*Thomas Import Co.*). Consent decree for plaintiff (notice Nov. 18, 1933).

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Des. 54,352, H. Y. Norwood, Thermometer support, filed Nov. 23, 1933, D. C., S. D. Ohio, W. Div., Doc. E 355, *Taylor Instrument Co.* v. *The Chaney Mfg. Co.*

Des. 82,797. (See 1,650,395.)

Des. 83,818, H. Kraus, Pillow, D. C., S. D. N. Y., Doc. E 62/52, *H. Kraus et al.* v. *C. Bloom, Inc.* Dismissed (notice Nov. 22, 1933).

Des. 87,760, O. N. Segall, Display fixture, D. C., S. D. N. Y., Doc. E 71/232, *O. N. Segall* v. *W. Morshak.* Consent order of discontinuance (notice Nov. 22, 1933).

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Des. 89,719, Rodstein & Nathanson, Footboard for a bedstead, filed Nov. 18, 1933, D. C., E. D. N. Y., Doc. E 7113, *H. Rodstein et al.* v. *Kings Metal Products Corp.*

Des. 90,904. (See 1,924,085.)

Disclaimers

1,550,568.—*Robert T. Pollock*, Boston, Mass. PROCESS FOR TREATING HYDROCARBON OILS. Patent dated August 18, 1925. Disclaimer filed January 2, 1934, by the patentee, the assignee, *Universal Oil Products Company*, approving and concurring.

Hereby enters this disclaimer to the subject matter constituting claim 1 of the patent, which reads as follows:

"A process for the conversion of hydrocarbon oils, consisting in subjecting a stream of oil while passing through a heating tube to a cracking temperature, in delivering the highly heated oil to an enlarged chamber, in discharging vapors generated from the heated oil to a dephlegmator, in introducing a stream of oil to the dephlegmator to pass therethrough in indirect heat conductive relation with the vapors traveling through said dephlegmator without permitting physical intermingling of such stream of oil with said vapors to assist in condensing the insufficiently cracked vapors, in preventing the return of unvaporized residue from the enlarged chamber to the heating tube, in introducing preheated oil from the dephlegmator and reflux condensate to the inlet side of the heating tube, and in maintaining a superatmospheric pressure on the oil undergoing conversion."

1,561,779.—*Gustav Egloff*, Chicago, Ill. PROCESS FOR CRACKING PETROLEUM OIL. Patent dated November 17, 1925. Disclaimer filed January 2, 1934, by the patentee, the assignee, *Universal Oil Products Company.*

Hereby enters this disclaimer to the subject matter constituting claims 1 and 2 of the patent, which read as follows:

"1. A process of cracking oil, consisting in passing the oil through a heating coil wherein it is subjected to cracking conditions of heat and pressure, in transferring a portion of the oil from said coil into a primary expansion chamber, in directing all of the oil constituents from said primary expansion chamber to a secondary chamber, and in introducing the remaining portion of the heated oil from said coil directly into the liquid oil in said secondary expansion chamber to increase the conversion therein.

"2. A process of cracking oil, consisting in passing the oil through a heating coil wherein it is subjected to cracking conditions of heat and pressure, in transferring a portion of the oil from said coil into a primary expansion chamber, in directing all of the oil constituents from said primary expansion chamber to a secondary chamber, and in introducing the remaining portion of the heated oil from said coil directly into the liquid oil in said second expansion chamber to increase the conversion therein, in taking off vapors from said second expansion chamber, in dephlegmating such vapors, in condensing the dephlegmated vapors and collecting the resulting distillate, and in returning the reflux condensate resulting from the dephlegmation of the vapors to the heating coil for further treatment."

1,584,230.—*Joseph C. Knight*, Brockton, Mass. PERFORATING MACHINE. Patent dated May 11, 1926. Disclaimer filed December 23, 1933, by the patentee.

Hereby enters this disclaimer to claims 1 to 7 inclusive and 11.

1,781,965.—*Charles F. Ball*, Milwaukee, Wis. CONCRETE MIXER AND AGITATOR. Patent dated November 18, 1930. Disclaimer filed January 3, 1934, by the assignee, *Chain Belt Company*.

Hereby enters this disclaimer to the said claims of the said Letters Patent which are in the following language, to wit:

"1. In a transit concrete mixer and agitator, a receptacle having a discharge opening and a surface inclining downwardly toward said opening; and means for moving concrete material away from said opening and toward the upper portion of said surface from whence it may be returned by gravitational action toward said opening, to effect agitation or mixing of said material."

"3. In a transit concrete mixer and agitator, a rotatable drum having a discharge opening at one end, the peripheral walls of said drum providing a surface inclining downwardly toward said opening; and means for moving concrete material away from said opening and toward the upper portion of said surface from whence it may be returned by gravitational action toward said opening, to effect agitation or mixing of said material."

"7. In a transit concrete mixer and agitator, a receptacle having a discharge opening and a surface inclining downwardly toward said opening; means adapted through movement in one direction to move concrete material away from said opening and toward the upper portion of said surface, from whence it may be returned by gravitational action toward said opening, to effect agitation or mixing of said material, said means also adapted upon movement in another direction to assist in moving material from said upper portion toward said opening and means whereby said drum may be rotated in either direction at will.

"8. In a transit concrete mixer and agitator, a rotatable drum having a discharge opening at one end, and a surface inclining downwardly toward said opening; spirally arranged blades within said drum adapted when said drum is rotated in a predetermined direction to simultaneously produce a mixing or agitation of concrete materials within said drum, and a constant end to end movement of said materials away from said opening to the upper portion of said surface, said materials returning toward the lower portion of said surface through gravitational action, said blades also serving upon reverse rotation of said drum to assist in movement of said materials downwardly upon said surface toward said opening and means whereby said drum may be rotated in either direction at will."

1,787,536.—*Harvey C. Hayes*, Washington, D. C. METHOD AND APPARATUS FOR DETERMINING GRAVITY VARIATIONS. Patent dated January 6, 1931. Disclaimer filed January 3, 1934, by the patentee.

Hereby enters his disclaimer of the invention of claim 3 except when the structure thereof embodies "means for individually recording on a common record strip the number of swings of each of more than two pendulums regardless of their phase relationships."

TRADE-MARKS

OFFICIAL GAZETTE, JANUARY 23, 1934

[VOL. 438. NO. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 343,911. BRIGHTMAN LEATHER CO., INC., Brooklyn, N. Y. Filed Nov. 21, 1933.

PUNCHINELLO

For Leather.
Claims use since Sept. 15, 1933.

Ser. No. 344,164. RADIANT FUEL CORPORATION, St. Louis, Mo. Filed Nov. 25, 1933.

Chemi-Kol

No claim is made to the word "Kol" apart from the mark as shown.
For Carbonized Bituminous Coal.
Claims use since Oct. 20, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 338,533. ROBERT S. MYER, doing business as The Continental Products Company, Inc., Newark, N. J. Filed June 5, 1933.

CLEANEZE

The drawing is lined for green. No claim is made to the word "Clean" apart from the mark as shown.
For Mops Utilizing Steel Wool or Metal Wire in Scouring Kitchen Utensils.
Claims use since Feb. 14, 1933.

Ser. No. 339,037. KLEEN CHEMICAL COMPANY, Philadelphia, Pa. Filed June 20, 1933.



For a Cleaning Compound for Removing Paint, Varnish, and Shellac from and to Bleach Floors and Other Surfaces, and upon a Chemically Balanced Cleaning Compound for Softening Water and Destroying and Removing Grease, Scum, and Dirt of All Kinds from Dishes, Glassware, Pots, Pans, Porcelain, Tile, Linoleum, Painted Surfaces, Automobiles, and Other Materials, Such as Rubber, Cement, Clothes, and Other Textile Fabrics.
Claims use since July 1, 1932.

Ser. No. 341,017. DURATONE, INC., Cincinnati, Ohio. Filed Aug. 25, 1933.

DURATONE

For Soap or Detergent for Washing Textiles or Treating Them During the Course of Their Manufacture or for Washing Other Objects and Articles.
Claims use since Aug. 11, 1933.

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Claims use since July 1, 1932.

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DURATONE

For Soap or Detergent for Washing Textiles or Treating Them During the Course of Their Manufacture or for Washing Other Objects and Articles.
Claims use since Aug. 11, 1933.

Ser. No. 343,764. FRANK BOWNES COMPANY, INC., Chelsea, Mass. Filed Nov. 17, 1933.

tred-kleen

No registration rights are claimed for the word "Kleen" apart from the mark shown.
For Floor Cleaners in the Nature of a Soap or Detergent.
Claims use since Nov. 3, 1933.

Ser. No. 344,082. BOURJOIS, INC., New York, N. Y. Filed Nov. 24, 1933.

Springtime in Paris

For Toilet Soap.
Claims use since Nov. 7, 1933.

Ser. No. 344,358. WILLIAM L. SCHULTZ, New York, N. Y. Filed Dec. 1, 1933.

Alice in Wonderland

For Soaps.
Claims use since Nov. 10, 1933.

CLASS 5

Adhesives

Ser. No. 343,809. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed Nov. 17, 1933.



The word "Grip" is disclaimed apart from the other features of the mark as shown.
For Adhesive Rubber Cement.
Claims use since Jan. 1, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 336,838. THE SHARPLES SOLVENTS CORPORATION, Philadelphia, Pa. Filed Apr. 15, 1933.

PENTALARM "A"

For Odorizing Compositions Adapted to be Injected into Gases as Leak Warning Agents.
Claims use since Aug. 10, 1932.

Ser. No. 336,839. THE SHARPLES SOLVENTS CORPORATION, Philadelphia, Pa. Filed Apr. 15, 1933.

PENTAPHEN

For Phenolic Compositions.
Claims use since Sept. 1, 1932.

Ser. No. 342,990. SCIENTIFIC LABORATORIES, INC., Tampa, Fla. Filed Oct. 27, 1933.



All wording on the drawing except "Scientific Laboratories, Inc." is hereby disclaimed when used separate and apart from the other features of the mark as shown on the drawing. The drawing is lined for dark brown and light brown.
For Tooth Paste for Smokers.
Claims use since July 1, 1933.

Ser. No. 343,033. FENOLE CHEMICAL COMPANY, Jacksonville, Fla. Filed Oct. 30, 1933.

PINOLINE

For Product Which is a Disinfectant, Deodorizer, and Cleanser.
Claims use since June 1, 1925.

Ser. No. 343,047. FREDERICK STEARNS & CO., Detroit, Mich. Filed Oct. 30, 1933.

ALPHOZONE

For Germicides and Antiseptics.
Claims use since Dec. 21, 1903.

Ser. No. 343,288. JOSEPH HENRY KARP, New York, N. Y. Filed Nov. 6, 1933.

karbomint

For Pharmaceutical Preparation Used to Relieve Acidosis.
Claims use since May 1, 1913.

Ser. No. 343,612. HYRAL COMPANY, Fort Worth, Tex. Filed Nov. 13, 1933.



The word "Dentifrice" is disclaimed apart from the mark as shown on the drawing.
For Dentifrice.
Claims use since Oct. 18, 1933.

Ser. No. 343,876. PLOUGH, INC., Memphis, Tenn. Filed Nov. 20, 1933.

THIN-TEX

No claim is made to the exclusive right to the use of the word "Thin" aside from the mark as shown.
For Medicinal Preparation—Namely, Liquid Latex Prophylactic.
Claims use since Sept. 6, 1933.

Ser. No. 344,086. LILLIAN S. DOVE, Chicago, Ill. Filed Nov. 24, 1933.

Lillian S. Dove, M.D.
NI-S-MAL

For Medicine for the Treatment and Relief of Common Female Ailments.
Claims use since Sept. 18, 1933.

Ser. No. 344,106. PUREPAC CORPORATION, New York, N. Y. Filed Nov. 24, 1933.

PUREOCIDE

For Insecticides and Deodorants.
Claims use since Sept. 21, 1933.

Ser. No. 344,139. CURTIS-HOWE CORPORATION, New York, N. Y. Filed Nov. 25, 1933.

LOXAL

For Compositions for Treating Metal Surfaces to Generate Thereon in Situ Protective Surfaces, Especially Suitable for Reception of Coatings.
Claims use since Nov. 2, 1933.

Ser. No. 344,160. JOSEPH MANDELBAUM, doing business as Golden Chemical Co., New York, N. Y. Filed Nov. 25, 1933.



No claim is made to the words "Strongest of All" and "The Insect Killer" apart from the mark shown.
For Insecticide.
Claims use since Oct. 2, 1933.

Ser. No. 344,196. THE LIQUID CARBONIC CORPORATION, Chicago, Ill. Filed Nov. 27, 1933.



For Insecticide and Fumigant.
Claims use since Sept. 19, 1933.

Ser. No. 344,209. BAMMA R. L. SWANSON, Dayton, Ohio. Filed Nov. 27, 1933.

HAIRCELLO

For Preparation for the Treatment of the Hair and Scalp.
Claims use since Jan. 2, 1933.

Ser. No. 344,223 OTIS CLAPP & SON, INC., Boston, Mass. Filed Nov. 28, 1933.

PALBROMA

For Sedative.
Claims use since May 7, 1932.

Ser. No. 344,282. JOHNSON & JOHNSON, New Brunswick, N. J. Filed Nov. 29, 1933.

TEXTALC

For Talcum Powder for Men.
Claims use since Oct. 1, 1933.

Ser. No. 344,380. BEECHAMS PILLS, INC., Niagara Falls, N. Y. Filed Dec. 2, 1933.

Beechalax

For Candy-Like Laxative or Cathartic.
Claims use since Nov. 1, 1933.

Ser. No. 344,920. LYDIA E. PINKHAM MEDICINE CO., Lynn, Mass. Filed Dec. 13, 1933.



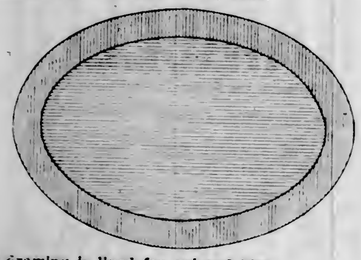
Lydia E. Pinkham

The portrait and signature are that of Lydia E. Pinkham, the founder of the applicant company.
For Blood Purifiers, Vegetable Compounds, Uterine Tonics and Sedatives, General Tonics and Alteratives, Vaginal Douches, Laxatives, and Liver Pills.
Claims use since Jan. 1, 1926.

CLASS 12

Construction Materials

Ser. No. 333,834. LEHIGH PORTLAND CEMENT COMPANY, Allentown, Pa. Filed Jan. 11, 1933.



The drawing is lined for red and blue.
For Portland Cement.
Claims use since Jan. 15, 1915.

Ser. No. 340,172. THE PATTERSON FOUNDRY & MACHINE COMPANY, East Liverpool, Ohio. Filed July 27, 1933.



For Porcelain Blocks, Acid-Proof Porcelain Cement for Making Linings, and Acid-Proof Linings, the Blocks and Linings Being Used for Lining Various Containers Such, for Instance, as the Steel Tanks of Agitators or Mixers, or for Any Other Container Where Such a Lining is Desired; Also for Floors and Walls of Buildings.
Claims use since Jan. 1, 1931.

Ser. No. 341,772. THE PACIFIC LUMBER COMPANY, San Francisco, Calif. Filed Sept. 21, 1933.

RICO BARK

The word "Bark" is disclaimed apart from the mark shown.
For Shredded Bark for Thermal and Sound Insulation.
Claims use since Sept. 7, 1933.

Ser. No. 343,765. FRANK BOWNES COMPANY, INC., Chelsea, Mass. Filed Nov. 17, 1933.

tred-mend

No registration rights are claimed for the word "Mend" apart from the mark shown.
For Crack Fillers in the Nature of Cement for Use Upon Floors or the Like.
Claims use since Nov. 3, 1933.

Ser. No. 344,407. NATIONAL FLOOR COMPANY, Chicago, Ill. Filed Dec. 2, 1933.

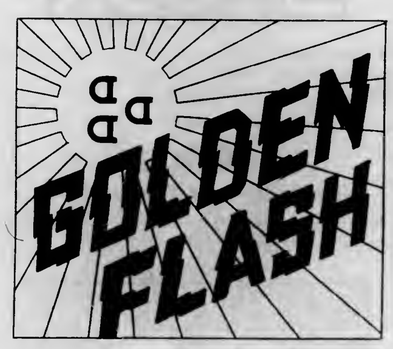


For Artificial Stone Floors.
Claims use since Dec. 20, 1932.

CLASS 15

Oils and Greases

Ser. No. 336,384. WAGGONER REFINING COMPANY, INCORPORATED, Electra, Tex. Filed Apr. 3, 1933.



The letters "DDD" are disclaimed apart from the other features of the mark shown.
For Gasoline.
Claims use since July 1, 1932.

CLASS 16

Paints and Painters' Materials

Ser. No. 321,374. BOSTON PUTTY WORKS, INC., doing business as Hub Paint Company, Boston, Mass. Filed Nov. 21, 1931.

For Dry, Paste, or Ready-Mixed Paints, Paint Enamel, and Kalsomine.
Claims use since Oct. 8, 1928, on paint and paint enamel, and since Oct. 8, 1929, on kalsomine.

Ser. No. 332,392. THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed Nov. 21, 1932.

WHIZ

For Japan Iron Enamel, Touch-Up Enamel for Automobiles, Ready-Mixed Paint, Varnish, Liquid Tire Cover, Ready-Mixed Shellac, Furniture Polish, Furniture Wax, Automobile Polish, Automobile Wax, Auto-Body Polish, Dry Gloss Liquid Wax, Cedar Oil Polish, Polish for Lacquered Surfaces, Polishing Wax, and Floor Polish.
Claims use since Sept. 1, 1905.

Ser. No. 344,260. SYDNEY DOUGLAS, doing business as Stakolite Company, Boston, Mass. Filed Nov. 29, 1933.



For Dry, Paste, or Ready-Mixed Paint, Varnish, Waterproofing and Stainproofing Coating Paint for Surfaces of All Kinds, Particularly for Finishing Linoleum, Wood, Cork, Rubber, Tile, Concrete, and Composition Floors.
Claims use since Feb. 9, 1932.

CLASS 17

Tobacco Products

Ser. No. 344,274. PETER HAUPTMANN TOBACCO CO., St. Louis, Mo. Filed Nov. 29, 1933.



No claim is made to the exclusive use of the geographical notation "St. Louis, Mo." apart from the trade-mark shown.
For Cigars.
Claims use since June, 1932.

Ser. No. 344,493. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Dec. 6, 1933.

Cremo

For Cigars, Cheroots, and All-Tobacco Cigarettes.
Claims use since 1898.

Ser. No. 344,821. HORACE EMIL WEIHMILLER, Buffalo, N. Y. Filed Dec. 11, 1933.

NIRAS

For Boxed Cigars.
Claims use since Nov. 21, 1933.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 343,228. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 3, 1933.

CROSS COUNTRY

For Hot-Water Heaters for Use in Automobiles.
Claims use since Aug. 1, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 342,995. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed Oct. 27, 1933.

BALDWIN

The representation of the goods is disclaimed apart from the mark shown.
For Incandescent Electric-Light Bulbs.
Claims use since Jan. 1, 1933.

Ser. No. 343,719. BILTRITE MOTOR EQUIPMENT CO. INC., New York, N. Y. Filed Nov. 16, 1933.

POWERIZED

For Electric Supplies and Accessories—Namely, Flashlights, Cables, Wires, Electric Bulbs, Sockets, Automobile Lamps, Fuses, Switches, Cigar Lighters, Portable Glow Heaters, Horns, Fans, Spark Plugs, Dry Batteries and Storage Batteries, and Parts for Storage Batteries Comprising Battery Connections, Terminals, and Battery Plates.
Claims use since Dec. 6, 1932.

Ser. No. 344,055. WILLIAM J. HALLIGAN, Chicago, Ill. Filed Nov. 23, 1933.

the hallicrafters

For Radio Receiving Sets, Loud-Speakers, Sound Amplifiers and Radio Receiving Sets Used in Combination with Phonograph Record Electric Pick-Up Attachments.
Claims use since Sept. 26, 1933.

Ser. No. 344,433. THE GAMEWELL COMPANY, Newton and Newton Upper Falls, Mass. Filed Dec. 4, 1933.

VITALARM

For Electrical Thermo-Responsive Alarm Signal Units, Electrical Horns or Buzzers (Commonly Termed "Howlers"), Extension Plugs for Electrical Conductors, and Parts Thereof.
Claims use since Aug. 18, 1933.

Ser. No. 344,922. HERBERT ALLAN SILLCOX, New York, N. Y. Filed Dec. 13, 1933.

SILCOX

For Radio Receiving and Transmitting Sets and Parts Thereof, and Radio Tubes.
Claims use since Dec. 4, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 344,469. BEST MANUFACTURING CO. INC., Irvington, N. J. Filed Dec. 5, 1933.

SPORTMASTER

For Table Chance Game Played with a Circular Runway and Marbles Operating to Indicate Numbers.
Claims use since Nov. 11, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 308,277. WILLIAMS TOOL CORPORATION, Erie, Pa. Filed Nov. 24, 1930.

WILLIAMS TOOL CORPORATION ERIE PA

The words "Erie, Pa." are hereby disclaimed.
For Pipe, Bolt, and Nipple Threading and Cutting Machine.
Claims use since August, 1929.

Ser. No. 341,488. THE OHLEN-BISHOP COMPANY, Columbus, Ohio. Filed Sept. 11, 1933.

HOME MECHANIC

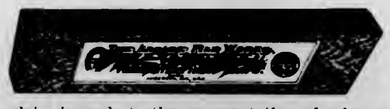
For Hand Saws and Circular Saws.
Claims use since Aug. 29, 1925.

Ser. No. 343,648. THE GREAT AMERICAN TEA CO., New York, N. Y. Filed Nov. 14, 1933.

Golden Key BLADES

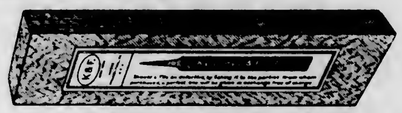
No claim is made to the exclusive use of the word "Blades" apart from the mark as shown.
For Razor Blades.
Claims use since Sept. 25, 1933.

Ser. No. 343,671. ARCADE FILE WORKS, Anderson, Ind. Filed Nov. 15, 1933.



No claim is made to the representation of a box apart from the mark as shown. Applicant is owner of Reg. No. 186,935, effected under the 10-year proviso. The drawing is lined for brown.
For Files and Rasps.
Claims use since 1892.

Ser. No. 343,686. KEARNEY & FOOT COMPANY, Providence, R. I. Filed Nov. 15, 1933.



The drawing is lined for brown. No claim is made to the representation of a box apart from the mark as shown. Applicant is owner of Reg. No. 184,754, effected under the 10 year proviso.
For Files and Rasps.
Claims use since 1880.

Ser. No. 343,699. NICHOLSON FILE COMPANY G. & H. BARNETT DIVISION, Providence, R. I. Filed Nov. 15, 1933.



The drawing is lined for green. No claim is made to the representation of a box apart from the mark as shown. Applicant is owner of Reg. No. 186,114, effected under the 10-year proviso.
For Files and Rasps.
Claims use since 1865.

Ser. No. 344,134. JAREZ BURNS & SONS, INC., New York, N. Y. Filed Nov. 25, 1933.

GRANULET

For Machines for Grinding and Treating Coffee and Coffee Chaff.
Claims use since Oct. 27, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 343,107. A C SPARK PLUG COMPANY, Flint, Mich. Filed Nov. 1, 1933.

AC

For Speedometers, Tachometers, Film-Speed Indicators, Ammeters, Pressure-Operated Gauges, Temperature Indicators, Liquid-Level Indicators, Revolution and Like Counters, Odometers, Speedometer Driving Mechanism and Parts Thereof, and Spark-Plug-Testing Devices.
Claims use since April, 1919.

CLASS 27

Horological Instruments

Ser. No. 344,473. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Dec. 5, 1933.

Gillette

For Clocks and Watches.
Claims use since Nov. 22, 1933.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 343,880. REED & BARTON, Taunton, Mass. Filed Nov. 20, 1933.



For Hollow Ware and Flatware of Silver and/or Other Precious Metals.
Claims use since Nov. 10, 1933.

Ser. No. 343,931. REED & BARTON, Taunton, Mass. Filed Nov. 21, 1933.

VIKING

For Hollow Ware and Flatware of Silver and/or Other Precious Metals.
Claims use since Nov. 10, 1933.

Ser. No. 344,178. DELTA CHI SIGMA SORORITY, Dayton, Ohio. Filed Nov. 27, 1933.

ΔΧΣ

For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since 1925.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 344,324. M. GRUMBACHER, New York, N. Y. Filed Dec. 1, 1933.

"UNDIQUE INSIGNIA"

For Artists' Brushes.
Claims use since February, 1932.

Ser. No. 344,325. M. GRUMBACHER, New York, N. Y. Filed Dec. 1, 1933.



For Artists' Brushes.
Claims use since February, 1932.

Ser. No. 344,381. BOURJOIS, INC., New York, N. Y. Filed Dec. 2, 1933.

PEACHES

For Powder Puffs.
Claims use since Nov. 22, 1933.

CLASS 31

Filters and Refrigerators

Ser. No. 302,171. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill. Filed June 4, 1930.



No claim is made to the word "Refrigeration" aside from the mark as shown.
For Domestic Refrigerating Machines.
Claims use since Apr. 5, 1930.

CLASS 32

Furniture and Upholstery

Ser. No. 339,250. RALPH E. BUSHMAN, doing business as Artop Co., Los Angeles, Calif. Filed June 27, 1933.



For Bridge Tables, Combination Fire-Place Ornament and Bridge Table, and End Tables.
Claims use since Mar. 17, 1933.

Ser. No. 343,528. STADIA SEAT SPECIALTY CO., Chicago, Ill. Filed Nov. 10, 1933.

E-Z SEAT

No claim is made to the word "Seat" apart from the mark as shown.
For Back Rests for Stadia Seats.
Claims use since July 1, 1933.

CLASS 33

Glassware

Ser. No. 329,207. WESTINGHOUSE ELECTRIC AND MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed July 29, 1932.

Super-lux

For Glass Globes or Refractors.
Claims use since November, 1922.

Ser. No. 344,258. COMPAGNIES RÉUNIES DES GLACES & VERRES SPÉCIAUX DU NORD DE LA FRANCE, Boussois-sur-Sambre, Nord, France. Filed Nov. 29, 1933.

SECURIT

For Sheet Glass—Rough or Polished, Figured or Plain, Whether Rolled, Pressed, or Drawn, and Mirrors.
Claims use since Feb. 12, 1930.

Ser. No. 344,319. FAIRMOUNT GLASS WORKS, INC., Indianapolis, Ind. Filed Dec. 1, 1933.



For Glass Bottles and Jars.
Claims use since Nov. 6, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 342,621. CHAS. H. PURDY CO., New York, N. Y. Filed Oct. 18, 1933.

BREADATOR

For Bread-Cooling Ventilators.
Claims use since Apr. 15, 1933.

Ser. No. 343,859. THE FOLEY GREENHOUSE MANUFACTURING CO., Forest Park, Ill. Filed Nov. 20, 1933.

RACK LOC

For Greenhouse-Ventilating Apparatus for Opening and Closing the Ventilators in the Roofs or Sides of Greenhouses.
Claims use since May 15, 1933.

CLASS 35

Belting, Hose, Machinery Packing, and Non-Metallic Tires

Ser. No. 338,320. LAKE SHORE TIRE & RUBBER COMPANY, Des Moines, Iowa. Filed May 29, 1933.

NEW DEAL

For Pneumatic Tires.
Claims use since May 11, 1933.

Ser. No. 343,808. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed Nov. 17, 1933.



For Automobile Tire and Tube Patches and Repair Kits Containing Patches and Cement.
Claims use since Jan. 1, 1933.

CLASS 37

Paper and Stationery

Ser. No. 342,318. THE MCBEE COMPANY, Athens, Ohio. Filed Oct. 10, 1933.

WAXSPOT

For Bond, Ledger, Printing, Writing, Record, and Book Paper and Mailing Envelopes.
Claims use since December, 1931.

Ser. No. 342,428. DETROIT SULPHITE PULP & PAPER CO., Detroit, Mich. Filed Oct. 13, 1933.

PROSTERL

For Paper for Wrapping Surgical Dressings and the Like.
Claims use since Sept. 23, 1933.

Ser. No. 344,264. HENRY G. FRANKEL, doing business as National Duplicating Company, Denver, Colo. Filed Nov. 29, 1933.



National Duplicating Company

Applicant disclaims the words "Dry Stencil Paper" appearing on the drawing.
For Stencil Paper for Duplicating Machines.
Claims use since Jan. 1, 1930.

Ser. No. 344,459. ADGIF CORPORATION, Atlanta, Ga. Filed Dec. 5, 1933.



For Mechanical Pencils and Ferrules Therefor.
Claims use since Nov. 25, 1931.

CLASS 38

Prints and Publications

Ser. No. 343,623. OCCIDENTAL PUBLISHING CO., doing business as American Wine Journal, Los Angeles, Calif. Filed Nov. 13, 1933.



For Publication Published Periodically.
Claims use since Oct. 19, 1933.

Ser. No. 343,684. E. HOFER AND SONS, Portland, Oreg. Filed Nov. 15, 1933.



For Periodicals.
Claims use since July, 1932.

Ser. No. 343,785. OUTDOOR PUBLISHING COMPANY, New York, N. Y. Filed Nov. 17, 1933.



For Section of a Monthly Publication.
Claims use since Sept. 26, 1933.

Ser. No. 344,177. COLUMBIA UNIVERSITY PRESS, New York, N. Y. Filed Nov. 27, 1933.

THE
INDEPENDENT JOURNAL
OF
COLUMBIA UNIVERSITY

For Periodical.
Claims use since Apr. 28, 1933.

Ser. No. 344,211. THE UNITED PRESS ASSOCIATIONS, New York, N. Y. Filed Nov. 27, 1933.



For Newspaper Column.
Claims use since Oct. 20, 1933.

Ser. No. 344,289. MAGAZINES, INC., New York, N. Y. Filed Nov. 29, 1933.



For Periodical.
Claims use since Nov. 14, 1933.

Ser. No. 344,290. MAGAZINES, INC., New York, N. Y. Filed Nov. 29, 1933.



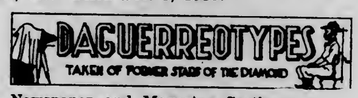
For Periodical.
Claims use since Nov. 14, 1933.

Ser. No. 344,300. TOWER MAGAZINES, INC., Wilkes-Barre, Pa. Filed Nov. 29, 1933.



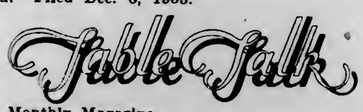
For Periodical.
Claims use since Nov. 14, 1933.

Ser. No. 344,485. THE SPORTING NEWS PUBLISHING COMPANY, doing business as Charles C. Spink & Son, St. Louis, Mo. Filed Dec. 5, 1933.



For Newspaper and Magazine Section.
Claims use since Nov. 3, 1932.

Ser. No. 344,532. FRENCH-STAMATS, INC., Cedar Rapids, Iowa. Filed Dec. 6, 1933.



For Monthly Magazine.
Claims use since October, 1933.

Ser. No. 344,677. SCHOLASTIC CORPORATION, New York, N. Y. Filed Dec. 8, 1933.



For Periodical.
Claims use since September, 1931.

CLASS 39

Clothing

Ser. No. 342,275. A. L. KORNMAN COMPANY, Nashville, Tenn. Filed Oct. 9, 1933.



The word "Cotton" is disclaimed apart from the other features of the mark shown.
For Suits, Coats, and Overcoats, Trousers, and Knickers.
Claims use since Oct. 1, 1933.

Ser. No. 342,488. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Oct. 14, 1933.



The drawing is lined to indicate the colors red, blue, and brown. No claim is made to the phrase "Fine Wear for Infants and Children" apart from the mark shown in the drawing.
For Bathrobes, Berets, Bibs, Bonnets, Bootees, Buntings, Coats, Creepers, Diapers (Rubber and Waterproofed), Frocks, Dresses, Garters, Gertrudes, Gowns, Jackets, Knitted Panties, Sacques, Shawls, Shoes of Leather, Rubber or Fabric, or Combinations of These Materials, Sweaters, Suits, Knitted Vests, Wrappers, and Underwear.
Claims use since Aug. 25, 1933.

Ser. No. 342,921. ORTHOPEDIC SHOES INC., New York, N. Y. Filed Oct. 25, 1933.



For Shoes of Leather and/or Fabric.
Claims use since Oct. 13, 1933.

Ser. No. 343,130. MOSS STORES, INC., San Francisco, Calif. Filed Nov. 1, 1933.



For Ladies' Leather Gloves.
Claims use since Jan. 27, 1932.

Ser. No. 343,700. NOLDE AND HORST SALES CO., INC., New York, N. Y. Filed Nov. 15, 1933.

Angleknit

For Hosiery.
Claims use since Nov. 2, 1933.

Ser. No. 344,974. HOSTESS FROCKS, INC., New York, N. Y. Filed Dec. 15, 1933.

MEADOWLANE

For Women's and Misses' Frocks.
Claims use since Dec. 8, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 343,273. THE ESMOND MILLS, New York, N. Y. Filed Nov. 6, 1933.

HEARTHSIDE

For Blankets.
Claims use since Oct. 4, 1933.

Ser. No. 343,368. SIMON SCHIFF, doing business as Lawrence Schiff & Co., New York, N. Y. Filed Nov. 7, 1933.

HUG SNUG

For Ribbons, Especially Grosgrain Ribbons Used for Shoe Binding.
Claims use since Aug. 25, 1933.

CLASS 43

Thread and Yarn

Ser. No. 342,649. FILASTIC, LIMITED, London, England. Filed Oct. 19, 1933.

FILASTIC

For Cotton Yarn Impregnated with Indiarubber.
Claims use since Aug. 4, 1932.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 340,438. YOUNGS RUBBER CORPORATION, INC., New York, N. Y. Filed Aug. 5, 1933.

Thins

The drawing is lined for green.
For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since July 15, 1933.

Ser. No. 342,103. BEAUTY UTILITIES, INC., Dover, Del., and Newark, N. J. Filed Oct. 3, 1933.

ARIEL

For Permanent Waving Machines, Permanent Waving Hair-Curling Machines and Supplies Therefor, Including Electrolytic Curl Heating Pads, Permanent Waving Curling Rods, Inserts for Steaming the Interior of Wound Tresses of Hair.
Claims use since Sept. 20, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 343,863. ROBERT GOLDENBERG, doing business as Sphinx Distributing Company, Los Angeles, Calif. Filed Nov. 20, 1933.

SPHINX



For Non-Alcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since June 1, 1933.

Ser. No. 344,853. JOHN REESE JONES, Palmerton, Pa. Filed Dec. 12, 1933.

MIRAH

For Non-Alcoholic, Non-Cereal, Maltless Beverage, Sold as a Soft Drink and Sirup and Extract for Making the Same.
Claims use since Jan. 1, 1933.

Ser. No. 344,973. ROBERT GOULD, doing business as Old Guard Products Co., New York, N. Y. Filed Dec. 15, 1933.

Old-Guard

For Ginger Ale.
Claims use since Nov. 9, 1933.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 340,714. R. M. FAMILTON, doing business as Harvest Grains Co., Tacoma, Wash. Filed Aug. 15, 1933.



Applicant does not claim the word, "Grains" as an integral part of said trade-mark.
For Cereal Breakfast Food.
Claims use since Apr. 8, 1933.

Ser. No. 341,756. COFFEE PRODUCTS OF AMERICA, INC., LTD., Los Angeles, Calif. Filed Sept. 21, 1933.

GOLD SEAL

For Coffee.
Claims use since Aug. 3, 1896.

Ser. No. 342,449. PURE MILK DAIRY PRODUCTS, INC., Elgin, Ill. Filed Oct. 13, 1933.



All wording except "Ados" and "Pure Milk Dairy Products Inc," is disclaimed apart from the mark as shown.
For Cheese.
Claims use since Oct. 1, 1933.

Ser. No. 343,980. B. FILIPPONE & CO., Passaic, N. J., assignor to B Filippone & Co. Inc., Passaic, N. J., a corporation of New Jersey. Filed Nov. 22, 1933.

BOCCONCINI

For Macaroni.
Claims use since Nov. 1, 1933.

Ser. No. 344,593. KRAFT-PHENIX CHEESE CORPORATION, Chicago, Ill. Filed Dec. 7, 1933.

KRAFTOGEN

For Milk Protein (Casein).
Claims use since Sept. 8, 1932.

Ser. No. 344,780. GENOVESI BROS., ZAPPELLI CO., San Jose, Calif. Filed Dec. 11, 1933.

MISSION TRAIL BRAND

No claim is made to the word "Brand" apart from the mark as shown.
For Olive Oil.
Claims use since Apr. 17, 1933.

Ser. No. 344,828. JOSEPH CANNAROZZO, doing business as Malden Baking Company, Malden, Mass. Filed Dec. 12, 1933.

SHERBATIN

For Frozen Confection.
Claims use since May 1, 1933.

CLASS 47

Wines

Ser. No. 338,945. SICHEL & COMPANY, London, England. Filed June 17, 1933.

CUVÉE RÉSERVÉE
Mozart Frères
Epernay
EXTRA DRY

No claim is made to any of the words on the drawing apart from the mark as shown.
For Wines.
Claims use since June 30, 1890.

Ser. No. 341,902. B., M. & J. STRAUSS, LTD., London, England. Filed Sept. 26, 1933.

EXTRA DRY BOUQUET RESERVE

Bouquet & Fils

Epernay

No claim is made to the words "Extra Dry Bouquet Reserve" and "Epernay" and no exclusive rights are claimed for the word "Bouquet".

For Champagne.
Claims use since July, 1925.

Ser. No. 343,386. CHAMPAGNE PERRIER-JOUËT SOCIÉTÉ ANONYME, doing business as Perrier-Jouët & Co., Epernay, France. Filed Nov. 8, 1933. Under 10-year proviso.

RESERVE CUVEE
CHAMPAGNE
Perrier-Jouet & Co.
Epernay
Finest EXTRA quality
EXTRA DRY

For Champagne Wines.
Claims use since 1881.

Ser. No. 343,460. MATHEUS MÜLLER KOMMANDIT-GESELLSCHAFT AUF AKTIEN, Eltville-on-the-Rhine, Germany. Filed Nov. 9, 1933.

"EXTRA" "AUSLESE"
Matheus Müller
TROCKEN
Eltville

The words "Trocken", "Eltville", "Auslese" and "Extra" are disclaimed apart from the mark as shown, and no claim is made to the representation of the label per se. The drawing is lined for shading.

For Wines.
Claims use since 1890.

Ser. No. 343,864. ROBERT GOLDENBERG, doing business as Sphinx Distributing Company, Los Angeles, Calif. Filed Nov. 20, 1933.

SPHINX



For Wines.
Claims use since June 1, 1933.

Ser. No. 344,395. DELBECK & CIE, SOCIETE A RESPONSABILITE LIMITEE, Reims, France. Filed Dec. 2, 1933. Under 10-year proviso.

Delmonico

For Champagne Wines.
Claims use since 1865.

Ser. No. 344,465. B. C. COMPANY, LTD., New York, N. Y. Filed Dec. 5, 1933.

B C

B.C. COMPANY Ltd. BC

For Wines.
Claims use since Nov. 17, 1933.

Ser. No. 344,494. JACQUES JOSEPH MARIE BOLLINGER, Ay, France. Filed Dec. 6, 1933. Under 10-year proviso.

BOLLINGER

For Champagne Wines.
Claims use since 1883.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 344,495. JACQUES JOSEPH MARIE BOLLINGER, Ay, France. Filed Dec. 6, 1933. Under 10-year proviso.

BOLLINGER BOLLINGER

'Carte Blanche
Renaudin Bollinger & C.
Ay-Champagne
FRANCE

For Champagne Wines.
Claims use since 1883.

Ser. No. 344,551. SOCIETE ANONYME ETABLISSEMENTS SARDET & DERIBAUCOURT, Paris, France. Filed Dec. 6, 1933.

DOB
1865

For Wines.
Claims use since May, 1930.

Ser. No. 344,729. ROMEO IMPORT CO., INC., New York, N. Y. Filed Dec. 9, 1933.

ROMEO

ROMEO

For Still and Sparkling Wines.
Claims use since Dec. 5, 1933.

Ser. No. 344,737. HERBERT W. WARDEN, Jr., Philadelphia, Pa. Filed Dec. 9, 1933.

MARQUIS
D'OR

For Wines.
Claims use since Dec. 1, 1933.

Ser. No. 344,749. PHILIP BIRNER, doing business as Del Vino Grape Products Co., New York, N. Y. Filed Dec. 11, 1933.

DELVINO

For Wines.
Claims use since Apr. 30, 1933.

Ser. No. 344,750. PHILIP BIRNER, doing business as Del Vino Grape Products Co., New York, N. Y. Filed Dec. 11, 1933.

LA CHAIM

לחיים

For Wines.
Claims use since Nov. 2, 1933.

Ser. No. 344,758. CALIFORNIA PRODUCTS & EXTRACT CO., San Francisco, Calif. Filed Dec. 11, 1933.

SUNRIPE

For Wines.
Claims use since Sept. 15, 1933.

Ser. No. 344,802. H. R. PAFFORD, doing business as Old Colony Wine Company, Los Angeles, Calif. Filed Dec. 11, 1933.

LA FIESTA

For Wines.
Claims use since Dec. 6, 1933.

Ser. No. 344,815. TONKIN DISTRIBUTING CO., doing business as Old Abbey Wine Co., Inc., San Francisco, Calif. Filed Dec. 11, 1933.

EL MUNDO

For Wines.
Claims use since Apr. 7, 1933.

Ser. No. 344,816. TONKIN DISTRIBUTING CO., doing business as Old Abbey Wine Co., Inc., San Francisco, Calif. Filed Dec. 11, 1933.

OLD ABBEY

For Wines.
Claims use since Apr. 7, 1933.

Ser. No. 344,883. CHAMPAGNE VINEYARDS CORPORATION OF AMERICA, Jersey City, N. J. Filed Dec. 13, 1933.



For Still and Sparkling Wines.
Claims use since Dec. 5, 1933.

Ser. No. 344,903. GENERAL WINES & SPIRITS CORPORATION, Dover, Del., and New York, N. Y. Filed Dec. 13, 1933.



For Wines.
Claims use since Dec. 6, 1933.

Ser. No. 344,904. HANAPPIER PETRELONGUE & CIE, Bordeaux, France. Filed Dec. 13, 1933.

ROLLS

For Wines.
Claims use since January, 1931.

Ser. No. 344,988. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Dec. 15, 1933.

GONZALEZ

ADMIRAL

For Wines.
Claims use since December, 1932.

CLASS 48

Malt Beverages and Liquors

Ser. No. 339,971. JOHN LABATT, LIMITED, London, Ontario, Canada. Filed July 21, 1933.



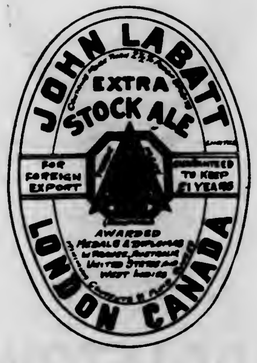
No claim is made to the words "Trade Mark", "Stout", "London" and "Canada".
For Ale, Beer, and Stout of Not More Than the Legal Alcoholic Content.
Claims use since July 23, 1886.

Ser. No. 341,039. JOHN LABATT, LIMITED, London, Ontario, Canada. Filed Aug. 26, 1933.



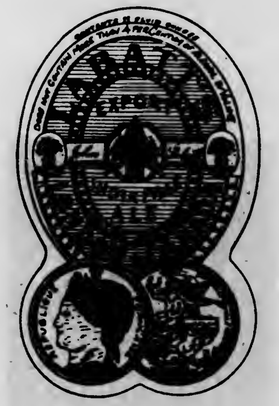
All words on the drawing except "Labatt's" and "John Labatt" are disclaimed apart from the mark as shown.
For Ale, Beer and Stout of Not More Than the Legal Alcoholic Content.
Claims use since 1905.

Ser. No. 341,040. JOHN LABATT, LIMITED, London, Ontario, Canada. Filed Aug. 26, 1933. Under the 10-year proviso.



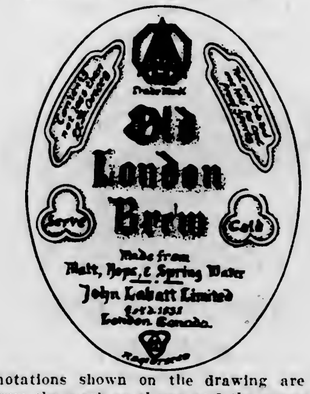
The representation of a label per se is disclaimed.
For Ale and Beer of Not More Than the Legal Alcoholic Content.
Claims use since 1880.

Ser. No. 341,041. JOHN LABATT, LIMITED, London, Ontario, Canada. Filed Aug. 26, 1933. Under 10-year proviso.



The representation of a label per se is disclaimed.
For Ale and Beer of Not More Than the Legal Alcoholic Content.
Claims use since 1878.

Ser. No. 341,042. JOHN LABATT, LIMITED, London, Ontario, Canada. Filed Aug. 26, 1933.



All notations shown on the drawing are disclaimed apart from the mark as shown and the representation of a label per se is disclaimed.
For Beer of Not More Than the Legal Alcoholic Content.
Claims use since 1910.

Ser. No. 341,605. JOHN LABATT, LIMITED, London, Ontario, Canada. Filed Sept. 15, 1933.



No claim is made to any of the notations appearing on the drawing with the exception of "Labatt's" and "John Labatt".
For Ales, Stout and Lager, of Not More Than the Legal Alcoholic Content.
Claims use since 1910.

Ser. No. 343,862. ROBERT GOLDENBERG, doing business as Sphinx Distributing Company, Los Angeles, Calif. Filed Nov. 20, 1933.

SPHINX



For Beer.
Claims use since June 1, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 343,212. LANG BROTHERS, LIMITED, Glasgow, Scotland. Filed Nov. 3, 1933.

PRODUCE OF SCOTLAND
EXTRA SPECIAL
LANG'S
OLD
LIQUEUR SCOTCH
WHISKY
Sole Proprietors
LANG BROTHERS LIMITED
Distillers
GLASGOW SCOTLAND
ESTABT 1801

No claim is made to any of the words on the drawing with the exception of the name "Lang Brothers" and the initials "LBW". The drawing is lined for red.
For Whisky.
Claims use since Nov. 17, 1928.

Ser. No. 343,218. MISSION DRY CORPORATION, LTD., Los Angeles, Calif. Filed Nov. 3, 1933.

MISSION

For Whisky, Gin, Brandy, and Distilled Alcoholic Cordials.
Claims use since Oct. 16, 1933.

Ser. No. 343,219. MISSION DRY CORPORATION, LTD., Los Angeles, Calif. Filed Nov. 3, 1933.

MISSION DRY

No claim is made to the word "Dry".
For Whiskey, Gin, Brandy, and Distilled Alcoholic Cordials.
Claims use since Oct. 16, 1933.

Ser. No. 343,220. MISSION DRY CORPORATION, LTD., Los Angeles, Calif. Filed Nov. 3, 1933.

OLD MISSION

For Whiskey, Gin, Brandy, and Distilled Alcoholic Cordials.
Claims use since Oct. 16, 1933.

Ser. No. 343,244. THE FERDINAND WESTHEIMER SONS COMPANY, Cincinnati, Ohio. Filed Nov. 4, 1933.



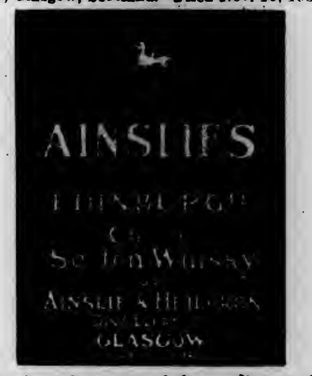
For Whisky.
Claims use since 1897.

Ser. No. 343,535. EZRA CHARLES WELSH, Grimsby, Ontario, Canada. Filed Nov. 10, 1933.

MIDDLETOWN
GOLDEN RYE
FAMED SINCE 1864
TRADE MARK
WHISKEY

Applicant disclaims the exclusive use of the words "Middletown", "Golden", "Rye", "Trade", "Mark", and "Whiskey" apart from the mark as shown.
For Whiskey.
Claims use since November, 1896.

Ser. No. 343,580. AINSLIE & HEILBRON (DISTILLERS) LIMITED, Glasgow, Scotland. Filed Nov. 13, 1933.



No claim is made to any of the wording on the drawing apart from the mark as shown.
For Scotch Whisky.
Claims use since 1887.

Ser. No. 343,640. PIERRE CHABANNEAU & CO., Bordeau and Cognac, France. Filed Nov. 14, 1933.

Pierre Chabanneau & Cie
COGNAC
TRADE MARK TRADE MARK

No claim is made to the words "Pierre Chabanneau & Co.", "Cognac", and "Trade Mark" apart from the mark shown.
For Brandies and Cognacs.
Claims use since 1908.

Ser. No. 343,721. BOORD & SON, LTD., London, England. Filed Nov. 16, 1933. Under 10-year proviso.

BOORD'S

For Gin, Alcoholic Bitters, Whisky, Rum, and Other Potable Distilled Spirits.
Claims use since 1879.

Ser. No. 343,983. THE FRANKFORT DISTILLERY, INC., Louisville, Ky. Filed Nov. 22, 1933.

Paul Jones
FOUR STAR
☆☆☆☆

For Gin.
Claims use since 1893.

Ser. No. 344,383. BULLOCH LADE & COMPANY LIMITED, Glasgow, Scotland. Filed Dec. 2, 1933. Under 10-year proviso.

BULLOCH LADE

For Scotch Whisky.
Claims use since 1890.

Ser. No. 344,385. BULLOCH LADE & COMPANY LIMITED, Glasgow, Scotland. Filed Dec. 2, 1933.

OLD RARITY

For Scotch Whisky.
Claims use since Oct. 30, 1924.

Ser. No. 344,416. WRIGHT & GREIG LIMITED, Glasgow, Scotland. Filed Dec. 2, 1933.

RODERICK DHU

For Whisky.
Claims use since 1884.

Ser. No. 344,471. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Dec. 5, 1933.

OLD PENROD

For Whiskey and Other Potable, Distilled Spirits.
Claims use since Sept. 23, 1930.

Ser. No. 344,507. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

FIRESIDE

Claims use since Dec. 6, 1933.
For Whiskey.

Ser. No. 344,510. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

Hunt Club

Applicant disclaims the word "Club" apart from the mark as shown in the drawing.
For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,513. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

Old Guild

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,552. STUYVESANT DISTILLING CORP., Long Island City, N. Y. Filed Dec. 6, 1933.



Peter Stuyvesant

For Gin.
Claims use since Nov. 29, 1933.

Ser. No. 344,875. THE THOMAS WARD DISTILLING COMPANY, Westminster, Md. Filed Dec. 12, 1933.

Cedarhurst

For Whiskey and/or Other Potable Distilled Spirits.
Claims use since Dec. 5, 1902.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 341,971. ADAM K. HODES, Fremont, Ohio. Filed Sept. 28, 1933.

SANITARY COMFORT

No claim is made to the word "Sanitary" apart from the mark shown.
For Rubber Mats.
Claims use since Sept. 6, 1933.

Ser. No. 343,925. RAYMOND C. MCQUISTON, West Newton, Mass. Filed Nov. 21, 1933.

TANIDE

For Artificial Leather in the Piece.
Claims use since Nov. 6, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JANUARY 23, 1934

309,557. GLANDULAR PRODUCT USED FOR TREATMENT OF FUNCTIONAL UTERINE DISORDERS INTENDED TO REGULATE THE MENSTRUAL CYCLE. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed September 11, 1933. Serial No. 341,486. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,558. PROTECTIVE COATING FOR LABORATORY TABLE TOPS IN THE NATURE OF PAINT. LOUIS S. CAMPBELL, doing business as Louis S. Campbell Company, Kewaunee, Wis.
Filed September 7, 1933. Serial No. 341,392. PUBLISHED NOVEMBER 14, 1933. Class 16.

309,559. LUBRICATING OIL—VIZ. CABLE SATURATING OIL. THE TEXAS COMPANY, New York, N. Y.
Filed September 20, 1933. Serial No. 341,744. PUBLISHED NOVEMBER 7, 1933. Class 15.

309,560. MOTION PICTURE FILMS. MORRIS S. TROP, New York, N. Y.
Filed July 1, 1933. Serial No. 339,442. PUBLISHED NOVEMBER 14, 1933. Class 26.

309,561. AUTOMOBILE SUPPLIES AND ACCESSORIES—VIZ. RUBBER INNER TUBES, TIRES, TIRE PATCHES, TIRE COVERS, AND BRAKE LINING. THE TEXAS COMPANY, New York, N. Y.
Filed July 10, 1933. Serial No. 339,613. PUBLISHED NOVEMBER 14, 1933. Class 35.

309,562. PHONOGRAPHS AND PARTS THEREOF AND PHONOGRAPH RECORDS. JENKINS & ADAIR, INC., Chicago, Ill.
Filed June 28, 1933. Serial No. 339,316. PUBLISHED NOVEMBER 7, 1933. Class 36.

309,563. MILLINERY—NAMELY, WOMEN'S HATS. CHIC HAT COMPANY, Chicago, Ill.
Filed June 29, 1933. Serial No. 339,421. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,564. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, TEA, COFFEE, AND MAYONNAISE DRESSING. A. FINK & SON, INC., Newark, N. J.
Filed June 27, 1933. Serial No. 339,268. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,565. PHONOGRAPHS AND PARTS THEREOF AND PHONOGRAPH RECORDS. JENKINS & ADAIR, INC., Chicago, Ill.
Filed June 28, 1933. Serial No. 339,315. PUBLISHED NOVEMBER 7, 1933. Class 36.

309,566. STORIES AND OTHER PUBLISHED LITERARY ARTICLES, BOOKS, AND PICTURES. HARLEY F. WIGHT, San Diego, Calif.
Filed June 20, 1933. Serial No. 339,053. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,567. LADIES' CORSETS AND BRASSIÈRES. FAY-MISS BRASSIERE CO. INC., New York, N. Y.
Filed June 27, 1933. Serial No. 339,267. PUBLISHED OCTOBER 31, 1933. Class 39.

309,568. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed June 16, 1933. Serial No. 338,908. PUBLISHED OCTOBER 10, 1933. Class 42.

309,569. MUSIC LESSON SHEETS. MARK DOLLINGER, Indianapolis, Ind.
Filed June 19, 1933. Serial No. 338,970. PUBLISHED NOVEMBER 14, 1933. Class 38.

309,570. COSMETICS. CHARM PRODUCTS INCORPORATED, Los Angeles, Calif.
Filed May 19, 1933. Serial No. 338,123. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,571. INFANTS' AND CHILDREN'S DRESSES AND FROCKS. L. GIDDING & CO. INC., New York, N. Y.
Filed May 27, 1933. Serial No. 338,300. PUBLISHED OCTOBER 31, 1933. Class 39.

309,572. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed April 21, 1933. Serial No. 337,012. PUBLISHED OCTOBER 31, 1933. Class 42.

309,573. HAMS. JONES DAIRY FARM, INC., Fort Atkinson, Wis.
Filed April 21, 1933. Serial No. 337,036. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,574. SILHOUETTES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 27, 1933. Serial No. 336,136. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,575. ELECTRIC DISCHARGE TUBES. THE M. O. VALVE COMPANY LIMITED, London, England.
Filed April 7, 1933. Serial No. 336,550. PUBLISHED NOVEMBER 7, 1933. Class 21.

309,576. PORTABLE ELECTRICALLY DRIVEN DEVICES FOR MIXING, BEATING, GRINDING, AND EXTRACTING EDIBLE PRODUCTS. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed February 6, 1933. Serial No. 334,679. PUBLISHED APRIL 11, 1933. Class 21.

309,577. WOMEN'S, MISSES', OR CHILDREN'S BLOUSES AND DRESSES. NEW YORK SPORTSWEAR CO. INC., New York, N. Y.
Filed March 13, 1933. Serial No. 335,621. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,578. ARTISTS' PAINTBRUSHES. FRANK M. NONAKA, doing business as F. M. Nonaka and Company, San Francisco, Calif.
Filed January 3, 1933. Serial No. 333,599. PUBLISHED NOVEMBER 14, 1933. Class 29.

309,579. PICTURE FRAMES. DESIGN ENGINEERS, INCORPORATED, New York, N. Y.
Filed December 24, 1932. Serial No. 333,351. PUBLISHED NOVEMBER 14, 1933. Class 32.

309,580. PASTE AND LIQUID AUTOMOBILE AND FLOOR WAX POLISH. EMIL J. TIETENBERG, doing business as Paramount Laboratories, New York, N. Y.
Filed August 17, 1933. Serial No. 340,775. PUBLISHED NOVEMBER 14, 1933. Class 16.

309,581. RAZORS AND RAZOR BLADES. PRYBRANDS, INC., Long Island City, N. Y.
Filed August 18, 1933. Serial No. 340,812. PUBLISHED NOVEMBER 14, 1933. Class 23.

309,582. HAIR SPRINGS FOR WATCHES. HERAEUS-VACUUMSCHMELZE AKTIENGESELLSCHAFT, Hanau-on-the-Main, Germany.
Filed August 8, 1933. Serial No. 340,504. PUBLISHED NOVEMBER 14, 1933. Class 27.

309,583. COSMETIC PREPARATIONS. RUSSELL-CARAWAY AND COMPANY, New Orleans, La.
Filed August 14, 1933. Serial No. 340,695. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,584. LADIES' DRESSES, INCLUDING SMOCKS, HOOVERETTES (A HOUSE DRESS MADE TO FOLD OVER IN FRONT SO THAT IF ONE SIDE BECOMES SOILED, THE OTHER SIDE CAN BE FOLDED OVER TO COVER THE SOILED PART, AND WHICH IS USUALLY BELTED), BOTH OF COTTON AND SILK. BROWN DURRELL CO., Boston, Mass.
Filed July 29, 1933. Serial No. 340,216. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,585. SHOES MADE OF FABRIC, LEATHER, WOOD, AND COMBINATIONS OF THESE MATERIALS. BEST & CO., INC., New York, N. Y.
Filed August 2, 1933. Serial No. 340,304. PUBLISHED OCTOBER 31, 1933. Class 39.

309,586. CEREAL PRODUCT COMMONLY USED AS A BREAKFAST FOOD. CORNELL RESEARCH FOUNDATION, INC., Ithaca, N. Y.
Filed July 27, 1933. Serial No. 340,156. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,587. CEREAL PRODUCT COMMONLY USED AS A BREAKFAST FOOD. CORNELL RESEARCH FOUNDATION, INC., Ithaca, N. Y.
Filed July 27, 1933. Serial No. 340,157. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,588. WINES. GRIERSON, OLDHAM & CO., LIMITED, London, England.
Filed August 16, 1933. Serial No. 340,738. PUBLISHED NOVEMBER 14, 1933. Class 47.

309,589. LADIES' SILK HOSIERY. HOWARD JOSEPH GILMAN, Chicago, Ill.
Filed August 21, 1933. Serial No. 340,874. PUBLISHED OCTOBER 31, 1933. Class 39.

309,590. LIQUID PAINT OR ENAMEL, USED TO PAINT OR ENAMEL SURFACES, PARTICULARLY INTERIORS OF BUILDINGS, CONTAINING LITHOPONE, TITANIUM PIGMENTS, AND ZINC OXIDE IN A LIQUID COMPOSED OF CHINA WOOD OIL, LINSEED OIL MINERAL SPIRITS, GUMS, AND DRYER. M. J. MERKIN PAINT CO. INC., New York, N. Y.
Filed August 18, 1933. Serial No. 340,822. PUBLISHED NOVEMBER 14, 1933. Class 16.

309,591. DRESSES, SUITS, SWEATERS, BLOUSES FOR THE USE OF WOMEN. S. AUGSTEIN & CO., College Point, New York, N. Y.
Filed August 21, 1933. Serial No. 340,860. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,592. PAINT ENAMELS, LACQUERS, AND VARNISHES. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed August 24, 1933. Serial No. 340,993. PUBLISHED NOVEMBER 14, 1933. Class 16.

309,593. COFFEE. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed July 11, 1930. Serial No. 303,395. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,594. PERIODICAL PUBLICATION. STACY A. VAN PETTEN, Chicago, Ill.
Filed August 23, 1933. Serial No. 340,961. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,595. CRAVATS, FOUR-IN-HAND TIES, BOW TIES, NECK TIES. SAUL GOIDL, doing business as Goidl Neckwear Manufacturing Company, Dallas, Tex.
Filed August 23, 1933. Serial No. 340,962. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,596. COTTON PIECE GOODS. SPARROW HARDWICK & COMPANY LIMITED, Manchester, England.
Filed August 22, 1933. Serial No. 340,930. PUBLISHED OCTOBER 31, 1933. Class 42.

309,597. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed August 23, 1933. Serial No. 340,948. PUBLISHED OCTOBER 31, 1933. Class 42.

309,598. CANNED FISH. MCGOVERN & MCGOVERN, Seattle, Wash.
Filed August 21, 1933. Serial No. 340,889. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,599. SPECIALLY PREPARED FOOD PRODUCT CONSISTING PRINCIPALLY OF AN ADMIXTURE OF POWDERED MILK AND PEANUT PASTE. NESTLE'S MILK PRODUCTS, INC., New York, N. Y.
Filed August 22, 1933. Serial No. 340,923. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,600. MAGAZINE. BUNTING'S NOVELTY MART, North Chicago, Ill.
Filed September 7, 1933. Serial No. 341,391. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,601. COTTON PIECE GOODS. STONEWALL COTTON MILLS, INC., Stonewall, Miss.
Filed September 1, 1933. Serial No. 341,261. PUBLISHED NOVEMBER 14, 1933. Class 42.

309,602. LINGERIE SHOULDER STRAPS. ROSE K. SAPIENZA, Newark, N. J.
Filed September 9, 1933. Serial No. 341,465. PUBLISHED NOVEMBER 7, 1933. Class 40.

309,603. MATTRESSES. THE COLD BLAST FEATHER CO., Philadelphia, Pa.
Filed September 8, 1933. Serial No. 341,424. PUBLISHED NOVEMBER 14, 1933. Class 32.

309,604. WINDOW DRAPES. FRANK MCGARRY, Philadelphia, Pa.
Filed September 13, 1933. Serial No. 341,533. PUBLISHED NOVEMBER 14, 1933. Class 42.

309,605. UNDERWEAR, CORSETS, GIRDLES, AND BRASSIÈRES. THE RITE FORM CORSET CO., INC., New York, N. Y.
Filed September 12, 1933. Serial No. 341,515. PUBLISHED OCTOBER 31, 1933. Class 39.

309,606. DISTINCTIVE HEADING OR CAPTION FOR NEWSPAPER ARTICLES PUBLISHED IN A SERIES WRITTEN BY CERTAIN OF ITS SALARIED EMPLOYEES. THE CHRONICLE PUBLISHING COMPANY, San Francisco, Calif.
Filed September 15, 1933. Serial No. 341,620. PUBLISHED NOVEMBER 14, 1933. Class 38.

309,607. COTTON AND WOOLEN PIECE GOODS. STRONG HEWAT & CO., INC., New York, N. Y.
Filed September 14, 1933. Serial No. 341,594. PUBLISHED OCTOBER 31, 1933. Class 42.

309,608. LINEN AND COTTON PIECE GOODS THAT HAVE BEEN SHRUNK AND FINISHED. WM. A. ROTHHOLZ CO., INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,696. PUBLISHED OCTOBER 31, 1933. Class 42.

309,609. HAIR PINS, HAIR COMBS, HAIR WAVERS, CRIMPERS, AND HAIR CURLERS. H. GOODMAN & SONS, INC., New York, N. Y.
Filed September 18, 1933. Serial No. 341,653. PUBLISHED NOVEMBER 7, 1933. Class 40.

309,610. PHYSICIAN'S RECORD AND ACCOUNT BOOK. COLWELL PUBLISHING COMPANY, Champaign, Ill.
Filed September 21, 1933. Serial No. 341,758. PUBLISHED NOVEMBER 14, 1933. Class 37.

309,611. LEDGER AND BOND PAPER. BYRON WESTON COMPANY, Dalton, Mass.
Filed September 21, 1933. Serial No. 341,754. PUBLISHED NOVEMBER 14, 1933. Class 37.

309,612. NEWSPAPER. SINCLAIR REFINING COMPANY, New York, N. Y.
Filed September 22, 1933. Serial No. 341,808. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,613. TITLE FOR NEWSPAPER SECTIONS OR FEATURES. ROCHESTER TIMES-UNION INC., Rochester, N. Y.
Filed September 22, 1933. Serial No. 341,804. PUBLISHED NOVEMBER 14, 1933. Class 38.

309,614. MATTRESSES. SIMMONS COMPANY, New York, N. Y.
Filed September 25, 1933. Serial No. 341,877. PUBLISHED NOVEMBER 14, 1933. Class 32.

309,615. BUTTONS AND BUCKLES NOT OF PRECIOUS METAL. LINDENHURST MANUFACTURING COMPANY, Lindenhurst, N. Y.
Filed September 25, 1933. Serial No. 341,869. PUBLISHED NOVEMBER 14, 1933. Class 40.

309,616. SUBSTITUTE FOR TURPENTINE IN THINNING PAINTS. SOCONY-VACUUM CORPORATION, New York, N. Y.
Filed September 22, 1933. Serial No. 341,809. PUBLISHED NOVEMBER 7, 1933. Class 16.

309,617. TOUCH-UP PAINT ENAMEL. WIZARD, INC., Chicago, Ill.
Filed September 23, 1933. Serial No. 341,848. PUBLISHED NOVEMBER 14, 1933. Class 16.

309,618. MAGAZINES. JAMES TALCOTT, INCORPORATED, New York, N. Y.
Filed September 22, 1933. Serial No. 341,814. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,619. AUTOMOBILE AND FURNITURE POLISH. GEORGE H. DETERS, New York, N. Y.
Filed September 27, 1933. Serial No. 341,917. PUBLISHED NOVEMBER 14, 1933. Class 16.

309,620. EYELASH CURLERS. BUTI-LASH CO., New York, N. Y.
Filed September 27, 1933. Serial No. 341,911. PUBLISHED NOVEMBER 14, 1933. Class 44.

309,621. PIECE GOODS COMPOSED WHOLLY OR IN PART OF WOOL, PARTICULARLY SUITABLE FOR THE MANUFACTURE OF LIGHT-WEIGHT MEN'S SUITS KNOWN AS "TROPICALS". AMERICAN WOOLEN COMPANY, Boston, Mass., and New York, N. Y.
Filed August 26, 1933. Serial No. 341,035. PUBLISHED OCTOBER 31, 1933. Class 42.

309,622. DRESSES, SUITS, SWEATERS, BLOUSES FOR THE USE OF WOMEN. S. AUGSTEIN & CO., College Point, New York, N. Y.
Filed August 29, 1933. Serial No. 341,112. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,623. SECTION OR COLUMN APPEARING IN A NEWSPAPER OR PERIODICAL. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,062. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,624. COMIC STRIP. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,059. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,625. PAPER AND MORE PARTICULARLY CORRUGATED PAPER. SHERMAN PAPER PRODUCTS CORPORATION, Newton, Mass.
Filed October 3, 1933. Serial No. 342,115. PUBLISHED NOVEMBER 14, 1933. Class 37.

309,626. MONTHLY MAGAZINE. THE EXHAUST PUBLISHING CO., Los Angeles, Calif.
Filed October 2, 1933. Serial No. 342,070. PUBLISHED NOVEMBER 14, 1933. Class 38.

309,627. CORSETS, CORSELETTES, BRASSIÈRES, AND GIRDLES. LEADING BRASSIERE CO., INC., New York, N. Y.
Filed August 31, 1933. Serial No. 341,207. PUBLISHED NOVEMBER 7, 1933. Class 39.

309,628. HEADING FOR A SECTION IN MONTHLY MAGAZINES. AHRENS PUBLISHING CO., INC., New York, N. Y.
Filed August 30, 1933. Serial No. 341,152. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,629. STICKS AND/OR HANDLES FOR FROZEN CONFECTIONS. THE POPSICLE CORPORATION OF THE UNITED STATES, New York, N. Y.
Filed December 8, 1932. Serial No. 332,895. PUBLISHED NOVEMBER 14, 1933. Class 13.

309,630. STICKS AND/OR HANDLES FOR FROZEN CONFECTIONS. THE POPSICLE CORPORATION OF THE UNITED STATES, New York, N. Y.
Filed December 8, 1932. Serial No. 332,893. PUBLISHED NOVEMBER 14, 1933. Class 13.

309,631. ELECTRIC ILLUMINATING, HEATING, COOKING, AND DRYING APPARATUS, DEVICES, AND APPLIANCES, IN PARTICULAR, ELECTRICALLY HEATED RADIATORS, ELECTRIC AIR-HEATERS OF THE PORTABLE REFLECTING TYPE, INDIVIDUAL ELECTRIC ROOM HEATERS, THERMO-STATICALLY-OPERATED ELECTRIC SWITCHES FOR THE CONTROL AND REGULATION OF HOUSE-HEATING FURNACES, ELECTRICALLY-HEATED DOMESTIC HOT-WATER BOILERS, ELECTRIC IMMERSION HEATERS OF SMALL SIZE, ELECTRIC FLATIRONS, ELECTRIC RELAYS, ELECTRIC SWITCHES, LIGHTNING ARRESTERS, ELECTRIC POLICE-ALARM SYSTEMS, ELECTRIC FIRE-ALARM SYSTEMS, ELECTRIC CONDUCTORS, ELECTRIC FUSES, ELECTRIC BELL SYSTEMS, FIXED AND VARIABLE RESISTORS FOR ELECTRICAL CONTROL CIRCUITS, RHEOSTATS, HEATING RESISTANCE ELEMENTS FOR ELECTRIC FLATIRONS, FURNACES, AND COOKING APPARATUS, INDUSTRIAL ELECTRIC FURNACES, ELECTRODES FOR ELECTRIC FURNACES, CARBON ELECTRODES FOR WELDING AND FOR ELECTROLYTIC PURPOSES; AND PRODUCTS MADE OF CARBON, GRAPHITE, BRONZE CARBON, COPPER CARBON, OR SILICON CARBIDE, NAMELY, ELECTRIC ARC-LIGHT ELECTRODES, SLIP CONTACTS, BRUSH CONTACTS, PRESSURE CONTACTS, MICROPHONE CARBON, BATTERY CARBON, AND SLIP DISCS. SIEMENS-PLANIAWERKE A. G. FÜR KOHLEFABRIKATE, Berlin-Lichtenberg, Germany.
Filed October 11, 1932. Serial No. 331,167. PUBLISHED NOVEMBER 7, 1933. Class 21.

309,632. COCOA IN POWDERED, CAKE, OR LUMP FORM; AND CHOCOLATE IN POWDERED, CAKE, OR LUMP FORM CONTAINING COCOA, SKIM MILK, AND CANE SUGAR. ANDREW N. ALEXANDER, doing business as A. Alexander, New York, N. Y.
Filed November 7, 1932. Serial No. 331,942. PUBLISHED NOVEMBER 7, 1933. Class 46.

309,633. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed August 4, 1932. Serial No. 329,324. PUBLISHED OCTOBER 31, 1933. Class 42.

309,634. HOSIERY. SCHUYLKILL VALLEY MILLS, INC., Spring City, Pa.
Filed September 3, 1932. Serial No. 330,106. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,635. CLOCK AND THERMOSTAT-OPERATED ELECTRIC SWITCHES FOR CONTROLLING THE ELECTRIC ELEMENTS OF ELECTRIC REFRIGERATORS AND THE LIKE, SUCH SWITCHES BEING EITHER MANUALLY OR COIN ACTUATED. METERICE OF AMERICA CO., LTD., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware.
Filed January 7, 1932. Serial No. 322,797. PUBLISHED JUNE 7, 1932. Class 21.

309,636. PAPER HANDKERCHIEFS. POND'S EXTRACT COMPANY, New York, N. Y.
Filed June 6, 1932. Serial No. 327,769. PUBLISHED NOVEMBER 7, 1933. Class 37.

309,637. CORSETS AND CORSELETS. LAURINA L. CARNALL, Boston, Mass.
Filed September 23, 1931. Serial No. 319,308. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,638. PATCHES FOR PNEUMATIC AUTOMOBILE TIRES. FIDELITY MANUFACTURING CO., INC., Zionsville, Pa.
Filed October 7, 1931. Serial No. 319,811. PUBLISHED NOVEMBER 14, 1933. Class 35.

309,639. FOUNDATION GARMENTS OF KNITTED, TEXTILE AND/OR RUBBER FABRICS COMPRISING BRASSIÈRES, BANDEAUS, BANDETTES, CORSETS, GIRDLES, STEP-IN CORSETS, CORSELETS, ABDOMINAL BELTS, AND COMBINATION CORSELETS AND BLOOMERS, COMBINATION CORSELETS AND SKIRTS, COMBINATION GIRDLES AND BLOOMERS, AND COMBINATION GIRDLES AND SKIRTS. THE STANDARD CORSET COMPANY, New York, N. Y.
Filed September 26, 1933. Serial No. 341,885. PUBLISHED NOVEMBER 7, 1933. Class 39.

309,640. PERIODICAL PUBLICATION. MANUFACTURERS AIRCRAFT ASSOCIATION, INC., New York, N. Y.
Filed October 3, 1933. Serial No. 342,119. PUBLISHED NOVEMBER 14, 1933. Class 38.

309,641. DRESS AND NEGLIGEE SHIRTS. RIEGEL TEXTILE CORPORATION, New York, N. Y.
Filed October 4, 1933. Serial No. 342,137. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,642. CLOTHESPINS. CHRISTOPHER SWEZEY, INCORPORATED, Wallingford, Vt.
Filed October 5, 1933. Serial No. 342,172. PUBLISHED NOVEMBER 14, 1933. Class 24.

309,643. GIRDLES, BRASSIÈRES, AND CORSETS. KOPS BROTHERS, INC., New York, N. Y.
Filed July 13, 1933. Serial No. 339,727. PUBLISHED OCTOBER 31, 1933. Class 39.

309,644. PLOWS, MOLDBOARDS, LANDSIDES, POINTS, AND PLOW BEAMS. C. BILLUPS, SON & COMPANY, INC., Norfolk, Va.
Filed July 20, 1933. Serial No. 339,926. PUBLISHED NOVEMBER 14, 1933. Class 23.

309,645. SECTION OF A PERIODICAL PUBLICATION. THE HAIRE PUBLISHING COMPANY, INC., New York, N. Y.
Filed July 13, 1933. Serial No. 339,721. PUBLISHED NOVEMBER 14, 1933. Class 38.

309,646. PERIODICAL PUBLICATION. THE HAIRE PUBLISHING COMPANY, INC., New York, N. Y.
Filed July 13, 1933. Serial No. 339,722. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,647. WEARING APPAREL, VIZ., RAINCOATS AND RUBBER BOOTS. THE TEXAS COMPANY, New York, N. Y.
Filed July 10, 1933. Serial No. 339,614. PUBLISHED OCTOBER 31, 1933. Class 39.

309,648. LOOSE-LEAF SHEETS USED IN CONJUNCTION WITH COTT INDEXES. THE COTT PRINTING AND INDEX COMPANY, Columbus, Ohio.
Filed July 12, 1933. Serial No. 339,700. PUBLISHED NOVEMBER 7, 1933. Class 37.

309,649. MALT BEVERAGES OF NOT MORE THAN LEGAL ALCOHOLIC CONTENT. MONUMENTAL PERFECT BREW CO., Baltimore, Md.
Filed July 14, 1933. Serial No. 339,755. PUBLISHED SEPTEMBER 19, 1933. Class 48.

309,650. RADIO RECEIVING SETS. LOUIS DIAZ MENDEZ, doing business as Louis Diaz Mendez Co., New York, N. Y.
Filed June 19, 1933. Serial No. 338,982. PUBLISHED NOVEMBER 14, 1933. Class 21.

309,651. WHISKY. GEORGE BENZ SONS, INC., St. Paul, Minn.
Filed September 1, 1933. Serial No. 341,230. PUBLISHED OCTOBER 17, 1933. Class 49.

309,652. BRANDY, RUM, WHISKY, AND GIN. GRIERSON, OLDHAM & CO., LIMITED, London, England.
Filed August 16, 1933. Serial No. 340,740. PUBLISHED NOVEMBER 14, 1933. Class 49.

309,653. GIN AND OTHER POTABLE DISTILLED LIQUORS. C. H. GRAVES & SONS COMPANY, Boston, Mass.
Filed September 7, 1933. Serial No. 341,400. PUBLISHED NOVEMBER 14, 1933. Class 49.

309,654. WHISKY. PENNSYLVANIA DISTILLING CO., INC., Logansport, Pa., and Brooklyn, N. Y.
Filed September 2, 1933. Serial No. 341,302. PUBLISHED NOVEMBER 14, 1933. Class 49.

309,655. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. JOS. S. FINCH & COMPANY, New York, N. Y.
Filed September 22, 1933. Serial No. 341,793. PUBLISHED OCTOBER 31, 1933. Class 49.

309,656. WHISKEY, GIN, AND OTHER POTABLE DISTILLED LIQUORS. C. H. GRAVES & SONS COMPANY, Boston, Mass.
Filed September 12, 1933. Serial No. 341,520. PUBLISHED NOVEMBER 14, 1933. Class 49.

309,657. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. THE GEO. T. STAGG CO., doing business as Kentucky River Distillery, Inc., Frankfort, Ky.
Filed September 22, 1933. Serial No. 341,811. PUBLISHED OCTOBER 31, 1933. Class 49.

309,658. WHISKEY, BRANDY, GIN AND OTHER POTABLE DISTILLED SPIRITS. JOS. S. FINCH & COMPANY, doing business as Greenbrier Distillery Co., New York, N. Y.
Filed September 22, 1933. Serial No. 341,794. PUBLISHED OCTOBER 31, 1933. Class 49.

309,659. WOMEN'S BLOUSES. KING & ALPERT, New York, N. Y.
Filed August 25, 1933. Serial No. 341,023. PUBLISHED NOVEMBER 7, 1933. Class 39.

309,660. PERIODICAL. OUTDOOR PUBLISHING CO., New York, N. Y.
Filed September 20, 1933. Serial No. 341,737. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,661. LAXATIVE MIXTURE OF PSYLLIUM SEEDS, MINERAL OIL, AND FIGS. DAISY BUTKA-SWARTOUT, doing business as Psyl-O-Fig Company, Los Angeles, Calif.
Filed September 13, 1933. Serial No. 341,673. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,662. LIQUID CLEANER FOR RUGS AND CARPETS. SYSTEM PRODUCTS CO., Chicago, Ill.
Filed September 18, 1933. Serial No. 341,668. PUBLISHED NOVEMBER 14, 1933. Class 4.

309,663. PAINTS (READY MIXED, PASTE FORM AND DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, PAINT FILLERS, FLOOR PAINTS, CARRIAGE AND AUTOMOBILE PAINTS, HOUSE PAINTS, COLORS IN OIL, WHITE LEAD AND ZINC, FLOOR STAINS, FLOOR WAX, COLORS GROUND IN JAPAN, AND PREPARED SHELLAC. THE MARTIN-SENOUR COMPANY, Cleveland, Ohio.
Filed September 16, 1933. Serial No. 341,636. PUBLISHED NOVEMBER 14, 1933. Class 16.

309,664. ELECTRIC PORTABLE LAMPS. SANDEL MANUFACTURING CO., Chicago, Ill.
Filed September 14, 1933. Serial No. 341,589. PUBLISHED NOVEMBER 7, 1933. Class 21.

309,665. WIRES AND CABLES FOR ELECTRICAL USE. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa.
Filed September 14, 1933. Serial No. 341,584. PUBLISHED NOVEMBER 7, 1933. Class 21.

309,666. RAZOR BLADES. MCKESSON & ROBBINS, INCORPORATED, Bridgeport and Fairfield, Conn.
Filed September 14, 1933. Serial No. 341,583. PUBLISHED NOVEMBER 14, 1933. Class 23.

309,667. DIFFERENT MOTION-PICTURE FILMS. METRO-GOLDWYN-MAYER DISTRIBUTING CORPORATION, New York, N. Y.
Filed September 12, 1933. Serial No. 341,517. PUBLISHED NOVEMBER 14, 1933. Class 26.

309,668. RAZOR BLADES. ROTH-BÜCHNER G. M. B. H., Tempelhof, near Berlin, Germany.
Filed September 6, 1933. Serial No. 341,377. PUBLISHED NOVEMBER 14, 1933. Class 23.

309,669. ENGINE OILS, CUTTING OILS, STEAM CYLINDER OILS AND CUP, GEAR, TRANSMISSION, WATER PUMP AND UNIVERSAL JOINT GREASES. TANK CAR STATIONS, INC., Buffalo, N. Y.
Filed September 5, 1933. Serial No. 341,349. PUBLISHED NOVEMBER 7, 1933. Class 15.

309,670. NOSE AND THROAT DROPS AND COLD TABLETS. STOTLAR-HAGLER DRUG CO., doing business as Alkets Co., St. Louis, Mo., and Pinckneyville, Ill.
Filed August 31, 1933. Serial No. 341,216. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,671. PAINTS AND WALL-COATINGS IN THE NATURE OF WATER PAINTS PREPARED FOR USE BY COMBINING A DRY POWDER OR POWDERS WITH WATER. ALABASTINE COMPANY, Grand Rapids, Mich.
Filed August 30, 1933. Serial No. 341,183. PUBLISHED NOVEMBER 14, 1933. Class 16.

309,672. STORAGE BATTERIES. ROSCOE TURNER COMPANY, doing business as Roscoe Turner, San Francisco, Calif.
Filed August 28, 1933. Serial No. 341,105. PUBLISHED NOVEMBER 7, 1933. Class 21.

309,673. SERIES OF ILLUSTRATED TOPICS OF INTEREST APPEARING IN A NEWSPAPER. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,057. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,674. COMIC STRIP. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,056. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,675. COMIC STRIP. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,055. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,676. COMIC STRIP. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,053. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,677. FERTILIZERS. FRANZ HANIEL & CIE. GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG ZWEIGNIEDERLASSUNG MANNHEIM, Mannheim, Germany.
Filed September 18, 1933. Serial No. 341,650. PUBLISHED NOVEMBER 14, 1933. Class 10.

309,678. PAPERBOARD SHIPPING CASES. THE ROCHESTER FOLDING BOX CO., Rochester, N. Y.
Filed September 25, 1933. Serial No. 341,874. PUBLISHED NOVEMBER 14, 1933. Class 2.

309,679. MEN'S AND YOUNG MEN'S SUITS, TOPCOATS, AND OVERCOATS. H. DAROFF & SONS, INC., Philadelphia, Pa.
Filed September 27, 1933. Serial No. 341,915. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,680. MEN'S AND YOUNG MEN'S SUITS, TOPCOATS, AND OVERCOATS. H. DAROFF & SONS, INC., Philadelphia, Pa.
Filed September 27, 1933. Serial No. 341,916. PUBLISHED NOVEMBER 7, 1933. Class 39.

309,681. HOSIERY FOR MEN, WOMEN, OR CHILDREN. GRAY-LINE HOSIERY COMPANY, Eddington, Pa.
Filed September 21, 1933. Serial No. 341,761. PUBLISHED NOVEMBER 7, 1933. Class 39.

309,682. HOSIERY. NATIONAL SILK HOSIERY MILLS, INC., Indianapolis, Ind.
Filed September 22, 1933. Serial No. 341,801. PUBLISHED NOVEMBER 7, 1933. Class 39.

309,683. BEER OF THE LEGAL ALCOHOLIC CONTENT. HOLLENBRU INC., Brooklyn, N. Y.
Filed September 16, 1933. Serial No. 341,628. PUBLISHED NOVEMBER 14, 1933. Class 48.

309,684. HOSIERY. WOODLAND HOSIERY MILLS, Cheltenham, Pa.
Filed September 20, 1933. Serial No. 341,749. PUBLISHED NOVEMBER 7, 1933. Class 39.

309,685. MEN'S, BOYS' AND CHILDREN'S OUTER GARMENTS CONSISTING OF COATS, VESTS, PANTS, TROUSERS, TOP-COATS, OVERCOATS, AND SUMMER CLOTHING FOR MEN, BOYS, AND CHILDREN CONSISTING OF COATS, VESTS, AND PANTS MADE OF EITHER WOVEN OR KNITTED MATERIAL. COHEN, GOLDMAN & CO., INC., New York, N. Y.
Filed September 5, 1933. Serial No. 341,320. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,686. WRAP-AROUND DRESSES AND NURSES' AND MAIDS' UNIFORMS. BLUE BIRD UNIFORM COMPANY, Philadelphia, Pa.
Filed September 13, 1933. Serial No. 341,541. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,687. DRESSES, SUITS, SWEATERS, BLOUSES FOR THE USE OF WOMEN. S. AUGSTEIN & CO., College Point, New York, N. Y.
Filed September 2, 1933. Serial No. 341,270. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,688. MODELING CLAY. ETTL STUDIOS, INCORPORATED, New York, N. Y.
Filed September 5, 1933. Serial No. 341,323. PUBLISHED NOVEMBER 14, 1933. Class 1.

309,689. METAL HOLDERS FOR PRICE CARDS FOR INDICATING THE PRICE OF AN ARTICLE. WILLIAM GRIESBACH, doing business as Amrite Price Card Holder Company, Greenfield, Mass.
Filed August 30, 1933. Serial No. 341,165. PUBLISHED NOVEMBER 14, 1933. Class 13.

309,690. DRESSES, SUITS, SWEATERS, BLOUSES FOR THE USE OF WOMEN. S. AUGSTEIN & CO., College Point, New York, N. Y.
Filed September 2, 1933. Serial No. 341,269. PUBLISHED NOVEMBER 14, 1933. Class 39.

309,691. MONTHLY MAGAZINE. MACFADDEN PUBLICATIONS, INC., New York, N. Y.
Filed August 29, 1933. Serial No. 341,131. PUBLISHED NOVEMBER 14, 1933. Class 38.

309,692. FOUR-IN-HAND NECKTIES FOR MEN. BROWN & WELLS, INC., Boston, Mass.
Filed August 30, 1933. Serial No. 341,158. PUBLISHED NOVEMBER 7, 1933. Class 39.

309,693. SECTION OR COLUMN APPEARING IN A NEWSPAPER OR PERIODICAL. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,061. PUBLISHED NOVEMBER 14, 1933. Class 38.

309,694. COMIC STRIP APPEARING IN A NEWSPAPER. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed August 26, 1933. Serial No. 341,058. PUBLISHED NOVEMBER 7, 1933. Class 38.

309,695. MAPS. TRAVELAIDE, INC., Chicago, Ill.
Filed August 25, 1933. Serial No. 341,031. PUBLISHED NOVEMBER 14, 1933. Class 38.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

309,696. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. J. BUSH & CO., INC., New York, N. Y. Filed Oct. 22, 1932. Serial No. 331,454.

Mitcham

For Astringents, Beauty Creams, Cold Creams, Refreshing Creams, Brilliantines, Dry Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid and Solid Form, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Body Powders, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Bath Salts, Smelling Salts, Lipsticks, Mouth Washes, Dentifrices, Foot Powders, Deodorants, Perfumes, and Toilet Waters.
Claims use since Dec. 31, 1888.

309,697. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE RIC-WIL COMPANY, Cleveland, Ohio. Filed Oct. 21, 1931. Serial No. 320,273.

LocLip

For Cast Iron Conduits, Metallic Sewer Drain Pipe, Metallic Culvert Pipe and Tile, and Lined and Unlined Metal Conduit for Steam and Other Fluids.
Claims use since Apr. 13, 1931.

309,698. (CLASS 48. MALT BEVERAGES AND LIQUORS.) KASKO PRODUCTS CO., INC., Philadelphia, Pa. Filed Dec. 6, 1932. Serial No. 332,817.

Kasser's SPECIAL

For Malt Beverage Containing Not More Than the Legal Percentage of Alcohol.
Claims use since Nov. 30, 1932.

309,699. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANIMAL FOODS COMPANY, San Jose, Calif. Filed Nov. 28, 1932. Serial No. 332,509.

CLINIC

For Dog Medicines—Namely, Worm Capsules, Worm Liquid, Tonic and Condition Pills, Tape Worm Tablets, Expectorant Medicine For Coughs, and Laxative Capsules.
Claims use since Nov. 3, 1932.

309,700. (CLASS 37. PAPER AND STATIONARY.) BINNEY & SMITH CO., New York, N. Y. Filed Dec. 8, 1932. Serial No. 332,873.

POS-TER-ART

For Colored Chalk Crayons.
Claims use since Nov. 17, 1932.

309,701. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LIPSCHULTZ BROS. INC., St. Paul, Minn. Filed Dec. 8, 1932. Serial No. 332,867.

KOOL-N-KLEEN AUTO SEAT PADS

For Automobile Seat Covers.
Claims use since Nov. 1, 1932.

309,702. (CLASS 39. CLOTHING.) FASHION PARK ASSOCIATES, INC., Rochester, N. Y., assignor to Fashion Park Manufacturing Corporation, a corporation of New York. Filed Dec. 14, 1932. Serial No. 333,063.

SYDEBELT

For Coats, Vests, Pants, Overcoats, Knickers, and Sport Trousers for Men and Boys.
Claims use since Nov. 11, 1932.

309,703. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Dec. 10, 1932. Serial No. 332,972.

TEMPERED RUBBER

For Vehicle Tires Made of Rubber and Fabric.
Claims use since Sept. 22, 1932.

309,704. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STUDIO COSMETIC CO., LTD., Los Angeles, Calif. Filed Mar. 31, 1933. Serial No. 336,307.

fashion of hollywood

For Cosmetics, Toilet Preparations, and Medicinal Preparations—Namely, Skin Cleansing, Massaging, Bleaching, and Beautifying Creams and Lotions; Deodorant Preparations in Liquid, Paste, and Powder Form, Hair Removing Preparations, Hair Growing and Hair Beautifying Preparations, Tissue Building Lotions and Creams, Face Packs, Skin and Hair Tonics and Astringents, Face Powders, Talcum Powders, Rouges, Lipsticks, Perfumes, Mascara, Dandruff Removing Preparations, Manicure Preparations, Fingernail Coloring, Cleaning, and Polishing Preparations, Cuticle Ices and Solvents, Fingernail Removing Preparations, Hair Dyeing Preparations and Compounds.
Claims use since Nov. 1, 1932.

309,705. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OTTO ROTH & CO., INC., New York, N. Y. Filed Dec. 14, 1932. Serial No. 333,081.

MONTFORT

For Cheese.
Claims use since Nov. 28, 1932.

309,706. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN E. MCBRADY, Chicago, Ill. Filed May 2, 1933. Serial No. 338,097.

HairThick

For a Preparation for Stimulating the Growth of Hair.
Claims use since Nov. 10, 1932.

309,707. (CLASS 47. WINES.) E. A. GROEZINGER, doing business as A. Finke's Widow, San Francisco, Calif. Filed May 20, 1933. Serial No. 338,045.

WIDOW FINKE

For Wines.
Claims use since 1899.

309,708. (CLASS 39. CLOTHING.) ARONSON-CAPLIN COMPANY, INC., New York, N. Y. Filed May 29, 1933. Serial No. 338,389.

KLINGPRUFE

For Women's Apparel Comprising Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-Ins, and Panties.
Claims use since July 1, 1932.

309,709. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JANETTE T. BURDASHAW, doing business as Burda Company, Augusta, Ga. Filed May 29, 1933. Serial No. 338,308.

Burda

For Nonalcoholic Maltless Beverages Sold as Soft Drinks and Syrups and Flavors Therefor.
Claims use since Dec. 15, 1932.

309,710. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) ERNEST W. RIPY, doing business as Ripy Bros. Distillery Co., Lawrenceburg, Ky. Filed Oct. 13, 1933. Serial No. 342,454.

RIPY BROS.

For Whiskey.
Claims use since September, 1908.

309,711. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EUGENE J. FISHGOLL, doing business as Rite-Health-Research Laboratories, St. Louis, Mo. Filed Sept. 16, 1933. Serial No. 341,626.

RITE-HEALTH

For Castor Oil, Turpentine, Tincture Iodine, Spirits Camphor, Glycerine, Camphorated Oil, Spirits Nitre, Powdered Alum, Borax, Sulphur, Salt Petre, Copperas, Cream Tartar, Boric Acid, Senna Leaves, Quinine Sulphate, and Epsom Salts.
Claims use since May 1, 1932.

309,712. (CLASS 39. CLOTHING.) SOL FREEMAN, New York, N. Y. Filed Oct. 14, 1933. Serial No. 342,474.

"SWEATERETTE"

For Knitted Sportswear for Women—Namely, Sweaters, Blouses, Negligees and Shawls.
Claims use since 1928.

309,713. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JOS. S. FINCH & COMPANY, New York, N. Y. Filed Oct. 14, 1933. Serial No. 342,472.

Schenley's Old Reserve

For Whiskey, Brandy, Gin, and Other Potable Distilled Spirits.
Claims use since January 11, 1929.

309,714. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 8, 1933. Serial No. 343,395.



For Whiskey.
Claims use since Oct. 1, 1923.

309,715. (CLASS 39. CLOTHING.) SOL ZION, doing business as Sol Glaser & Co.—Sol Zion & Co. Dept., Philadelphia, Pa. Filed Oct. 14, 1933. Serial No. 342,507.

KESWICK

For Men's and Boys' Clothing—Namely, Suits and Overcoats.
Claims use since 1926.

309,716. (CLASS 2. RECEPTACLES.) SOLAR-STURGES MFG. CO., Melrose Park, Ill. Filed Nov. 17, 1933. Serial No. 343,800.

NEVERLEAK

For Metal Milk Cans and Beer Barrels.
Claims use since September, 1932.

309,717. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARTZ MOUNTAIN PRODUCTS INC., New York, N. Y. Filed Nov. 14, 1933. Serial No. 343,651.

HARTZ MOUNTAIN

For Bird Food.
Claims use since Jan. 15, 1930.

LABELS

REGISTERED JANUARY 23, 1934

43,125.—*Title:* ABBOTTS DE LUXE "A" BUTTER (UNSALTED). For Butter. ABBOTTS DAIRIES, INC., Philadelphia, Pa. Published September 22, 1931.

43,126.—*Title:* ABBOTTS DE LUXE "A" BUTTER (PASTEURIZED). For Butter. ABBOTTS DAIRIES, INC., Philadelphia, Pa. Published August 1, 1932.

43,127.—*Title:* AMBASSADOR PALE DRY GINGER ALE. For Nonalcoholic Carbonated Beverage. AMBASSADOR BEVERAGE COMPANY, Boston, Mass. Published December 9, 1933.

43,128.—*Title:* RED PEACOCK. For Extra Dry Carbonated Beverage. REBECCA APPLEBAUM, doing business as Majestic Wine Company, New York, N. Y. Published May 31, 1933.

43,129.—*Title:* ORTHO BRAND SPOT SPRAY. For Fungicides and Insecticides. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif. Published April 5, 1933.

43,130.—*Title:* DR. KINSMAN'S ASTHMATIC CIGARETTES. For Cigarettes. CAPITAL DRUG COMPANY, INC., Augusta, Maine. Published November 14, 1933.

43,131.—*Title:* DR. KINSMAN'S DIGITALIS COMPOUND TABLETS. For Tablets. CAPITAL DRUG COMPANY, INC., Augusta, Maine. Published November 14, 1933.

43,132.—*Title:* KINSMAN'S ANTACID TABLETS. For Tablets. CAPITAL DRUG COMPANY, INC., Augusta, Maine. Published November 14, 1933.

43,133.—*Title:* DR. KINSMAN'S DIGITALIS COMPOUND TABLETS. For Tablets. CAPITAL DRUG COMPANY, INC., Augusta, Maine. Published November 14, 1934.

43,134.—*Title:* SAXON BRAND SHELLAC. For Shellacs. DAITCH & COMPANY, Boston, Mass. Published March 1, 1931.

43,135.—*Title:* HIGHLAND. For Whiskey. THE FREIBERG & WORKUM CO., Cincinnati, Ohio. Published October 3, 1933.

43,136.—*Title:* JANET. For Skin Lotions, Beauty Creams, Hair Tonics, Etc. JOHN S. GRAINER, doing business as The Chemist Shop, Cleveland, Ohio. Published September 27, 1933.

43,137.—*Title:* GREAT FALLS BEER. For Lager Beer. GREAT FALLS BREWERIES, INCORPORATED, Great Falls, Mont. Published November 22, 1933.

43,138.—*Title:* NOFADE. For Green for Outside Surfaces, Ready-Mixed, Ready for Use. THE HAZARD LEAD WORKS INC., Brooklyn, N. Y. Published September 22, 1933.

43,139.—*Title:* I. S. C. IODINE SKIN COMPOUND. For An Iodine Skin Compound. IODINE-SKIN CORPORATION, New York, N. Y. Published December 8, 1933.

43,140.—*Title:* JUNE RAIN. For Washing Powder. FREDERICK ORLO JOHNSON, doing business as Garfield Manufacturing Company, Detroit, Mich. Published October 15, 1933.

43,141.—*Title:* YANKEES NATIONAL BEER THE FINEST BREW OF 3.2 HEALTHFUL—REFRESHING. For Beer. MAX. KIRCHMAN, Cicero, Ill. Published November 25, 1933.

43,142.—*Title:* KURTH'S BANNER BEER. For Beer. THE KURTH COMPANY, Columbus, Wis. Published September 1, 1933.

43,143.—*Title:* THE GIZZARD CAPSULE. For Gizzard Capsule. GEO. H. LEE COMPANY, Omaha, Nebr. Published September 21, 1933.

43,144.—*Title:* MAJESTIC CRYSTALS. For Crystals for Neutralizing Acidity. MAJESTIC HOTEL AND BATH HOUSE COMPANY, Marlin, Tex. Published November 13, 1933.

43,145.—*Title:* PENN VARNISH. For Varnishes. JOHN MCCULLION & COMPANY, Philadelphia, Pa. Published October 26, 1933.

43,146.—*Title:* PAN-AMERICAN. For Whiskey. MENICAN DISTILLERY CO. S. A., C. Juarez, Chihuahua, Mexico. Published December 7, 1933.

43,147.—*Title:* PALERMO. For Olive Oil. MONTEVERDE & PANODI, INC., doing business as Palermo Olive Oil Co., San Francisco, Calif. Published May 20, 1933.

43,148.—*Title:* POLKA DOT. For Caramel Chews and Other Candies. CARL EDWARD PETERSEN, Los Angeles, Calif. Published November 2, 1933.

43,149.—*Title:* STARLIGHT TEA. For Tea. ALEXANDER E. POIRIER, doing business as A. P. Poirier Co., Salem, Mass. Published December 16, 1933.

43,150.—*Title:* MORNING STAR BRAND COFFEE. For Coffee. ALEXANDER E. POIRIER, doing business as A. P. Poirier Co., Salem, Mass. Published December 16, 1933.

43,151.—*Title:* LITTLE MISSES. For Hairpins. HAL ROACH STUDIOS, INC., Culver City, Calif. Published June 10, 1933.

43,152.—*Title:* LITTLE MISSES. For Hairpins. HAL ROACH STUDIOS, INC., Culver City, Calif. Published June 10, 1933.

43,153.—*Title:* LITTLE MISSES. For Hairpins. HAL ROACH STUDIOS, INC., Culver City, Calif. Published June 10, 1933.

43,154.—*Title:* LITTLE MISSES. For Hairpins. HAL ROACH STUDIOS, INC., Culver City, Calif. Published June 10, 1933.

43,155.—*Title:* LITTLE MISSES. For Hairpins. HAL ROACH STUDIOS, INC., Culver City, Calif. Published June 10, 1933.

43,156.—*Title:* BATH FLAKES. For Bath Flakes. THE J. T. ROBERTSON COMPANY, INC., Syracuse, N. Y. Published June 27, 1933.

43,157.—*Title:* SALERNO BUTTER COOKIES. For Cookies. SALERNO-MEGOWEN BISCUIT COMPANY, Chicago, Ill. Published November 29, 1933.

43,158.—*Title:* SALERNO GRAHAM CRACKERS. For Graham Crackers. SALERNO-MEGOWEN BISCUIT COMPANY, Chicago, Ill. Published November 29, 1933.

43,159.—*Title:* SALERNO SALTINE CRACKERS. For Crackers. SALERNO-MEGOWEN BISCUIT COMPANY, Chicago, Ill. Published November 29, 1933.

43,160.—*Title:* FOR EVERY FINISHED SURFACE USE OLD MASTER RE-NU-WAX FOR FLOORS FURNITURE AUTOMOBILES. For a Polishing Wax. RALPH SALVATORE, Glendale, Calif. Published November 27, 1933.

43,161.—*Title:* MIDGETS, THE DAINTIEST EARRINGS MADE. For Jewelry. SCHEIN BROTHERS, INC., New York, N. Y. Published September 28, 1933.

43,162.—*Title:* CHAMPAGNE LA FRANCE. For Champagne. SHIMOLA & COMPANY, Cleveland, Ohio. Published October 15, 1933.

43,163.—*Title:* AMERICAN ARISTOCRAT HIGH LIFE. For Whiskey. SHIMOLA & COMPANY, Cleveland, Ohio. Published October 15, 1933.

43,164.—*Title:* OLD RED WHITE & BLUE. For Whiskey. SHIMOLA & COMPANY, Cleveland, Ohio. Published October 15, 1933.

43,165.—*Title:* SILS. For Canned Stringless Beans. SIL'S FOOD CO., Oakland, Calif. Published December 2, 1933.

43,166.—*Title:* MARTHA'S QUILT BATT. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published April 5, 1933.

43,167.—*Title:* COFFEE. For Coffee. UNION BAG & PAPER CORPORATION, New York, N. Y. Published December 14, 1933.

43,168.—*Title:* SHEDDAN'S. For Croup and Pneumonia Salve and Antimalaria Capsules. FRANCES SHEDDAN WEBB, doing business as Webb Chemical Company, Osceola, Ark. Published September 10, 1933.

43,169.—*Title:* MICHIGAN MAID COUNTRY ROLL BUTTER. For Butter. WESCO FOODS COMPANY, Cincinnati, Ohio. Published November 8, 1933.

43,170.—*Title:* WINDSOR. For Fan Belts. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Published November 1, 1933.

PRINTS

REGISTERED JANUARY 23, 1934

14,511.—*Title:* KILL GARDEN PESTS — ORTHO BRAND—GARDEN VOLCK SPRAY. For Insecticides and Fungicides. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif. Published June 6, 1933.

14,512.—*Title:* HALF THE DISEASES THAT THREATEN HIM—ARE LINKED WITH SIMPLE DIGESTIVE DISTURBANCES. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published December 10, 1933.

14,513.—*Title:* NOW! HAVE PERFECT BISCUITS. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published June 12, 1933.

14,514.—*Title:* WHY WE CAN NO LONGER LAUGH AT "BRIDES' BISCUITS." For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published June 26, 1932.

14,515.—*Title:* SCIENCE'S LATEST DEVELOPMENT TO SMOOTH THE PATH OF THE BRIDE. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published July 10, 1932.

14,516.—*Title:* SCIENCE DISPELLS A COMICAL FEAR OF BRIDEGROOMS! For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published July 24, 1932.

14,517.—*Title:* REMARKABLE NEW DISCOVERY A BOOM TO BRIDES! For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published August 21, 1932.

14,518.—*Title:* BETTY CROCKER 13-EGG ANGEL FOOD. For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published November 29, 1932.

14,519.—*Title:* ONE WAY TO KEEP A MAN AT THE TABLE IS TO SERVE HIM HOT BISCUITS. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published January 10, 1933.

14,520.—*Title:* DON'T WORRY ABOUT YOUR PARTY—THE SMART THING TO SERVE TODAY IS HOT BISCUITS. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published January 25, 1933.

14,521.—*Title:* THE EASIEST WAY TO MAKE A MAN BRIGHTEN UP AT DINNER IS TO PUT HOT BISCUITS ON THE TABLE. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published March 7, 1933.

14,522.—*Title:* THE MAN ISN'T BORN WHO DOESN'T LOVE HOT BISCUITS—TRY A BATCH TONIGHT AND SEE! For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published April 4, 1933.

14,523.—*Title:* WOMEN! ACCEPT FREE THIS NEW $25,000 "KITCHEN-TESTED" RECIPE SET. For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published June 1, 1933.

14,524.—*Title:* JACK DEMPSEY. For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published June 13, 1933.

14,525.—*Title:* CALLS BISQUICKS HOT WEATHER "WIFE-SAVERS"! For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published July 20, 1933.

14,526.—*Title:* PLEASE ACCEPT FREE THIS NEW "KITCHEN-TESTED" RECIPE SET COSTING $25,000! CHILLED PINEAPPLE PIE. For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published July 14, 1933.

14,527.—*Title:* BABE RUTH. For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published July 11, 1933.

14,528.—*Title:* WOMEN! THIS LOVELY TEASPOON GIVEN FREE. For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published July 25, 1933.

14,529.—*Title:* WE PAID $25,000 TO GIVE YOU THIS NEW "KITCHEN-TESTED" RECIPE SET FREE! AMBASSADOR BLACK BOTTOM PIE. For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published August 1, 1933.

14,530.—*Title:* MRS. DAUGHTER-IN-LAW DISCOVERS BISQUICKS, ETC. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published July 30, 1933.

14,531.—*Title:* BETTY CROCKER AND YOUR BAKER SHARE THIS TRIUMPH! For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published August 8, 1933.

14,532.—*Title:* JOHNNY (TARZAN) WEISSMULLER SOLVES THE BREAKFAST PROBLEM FOR THE SMITHS. For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published August 22, 1933.

14,533.—*Title:* MODERN MOLLY AND HOW A REMARKABLE FREE BOOK SOLVES ONE PROBLEM OF MARRIED LIFE EARLY IN THE GAME FOR HER. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published August 27, 1933.

14,534.—*Title:* WINS AN OLD BET WITH BISQUICKS. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published September 19, 1933.

14,535.—*Title:* ACCEPT FREE, PLEASE, THIS NEW $25,000 "KITCHEN-TESTED" RECIPE SET! HADDON HALL GINGERBREAD. For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published October 1, 1933.

14,536.—*Title:* FREE! $5,000.00 IN CASH FOR NAMING THIS LATEST BETTY CROCKER CAKE. For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published October 1, 1933.

14,537.—*Title:* THE WILBERT. For Cement Burial Vaults. WILBERT W. HAASE CO., Forest Park, Ill. Published September 28, 1933.

14,538.—*Title:* HOLEPROOF HOSIERY. For Hosiery. HOLEPROOF HOSIERY CO., Milwaukee, Wis. Published December 10, 1933.

14,539.—*Title:* NINE REASONS WHY KIMBALL'S TABLETS ARE SUPERIOR. For Stomach Tablets. H. B. KIMBALL, Milwaukee, Wis. Published September 5, 1933.

14,540.—*Title:* DESIGN FOR DOWN FILLED COMFORTERS. For Comforters. ISIDOR ROTHCHILD, doing business as Peerless Comforter Mfg. Co., West Los Angeles and Hollywood, Calif. Published October 16, 1933.

14,541.—*Title:* THOROBREAD. For Dog Soap. THOROBREAD COMPANY, Cincinnati, Ohio. Published June 19, 1933.

REISSUES

JANUARY 23, 1934

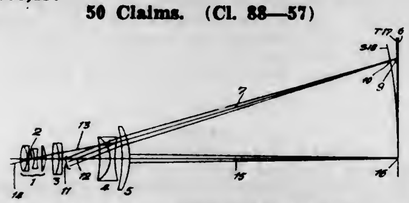
19,056

PHOTOGRAPHIC OBJECTIVE

Harry Sidney Newcomer, New York, N. Y.

Original No. 1,932,082, dated October 24, 1933, Serial No. 611,964, May 18, 1932. Application for reissue December 1, 1933. Serial No. 700,487

50 Claims. (Cl. 88—57)



43. An optical system for photographic or projection purposes comprising, in combination, a photographic lens, an anamorphosing unit in front of the photographic lens, and in front of the anamorphosing unit a correcting spherical lens having a focal length approximating the object distance, the radius of curvature of the front surface of the correcting lens being less than one half the object distance.

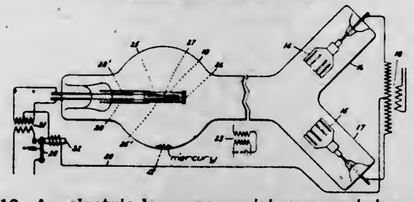
19,057

THERMIONIC CATHODE LAMP AND METHOD OF OPERATING THE SAME

Albert W. Hull, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original No. 1,929,143, dated October 3, 1933, Serial No. 226,275, October 15, 1927. Application for reissue November 27, 1933. Serial No. 699,993

18 Claims. (Cl. 176—124)



18. An electric lamp comprising a container, a charge of luminosity-producing gas therein, electrodes therefor comprising a thermionic cathode and an anode spaced apart a sufficient distance to permit of the formation of a luminous positive column therebetween, said cathode having an area large enough to provide a thermionic electron emission sufficient to supply a current of at least about an ampere at a temperature at which thermal disintegration is inappreciable, and with a fall of potential at the cathode so low that electrical disintegration also is inappreciable.

19,058

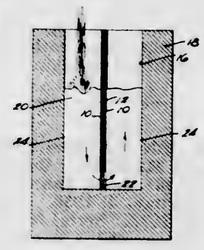
PROCESS OF MAKING FERROUS PRODUCTS FACED WITH STABLE SURFACE ALLOYS

Percy A. E. Armstrong, New York, N. Y.

Original No. 1,813,654, dated July 7, 1931, Serial No. 351,314, March 30, 1929. Application for reissue February 3, 1932. Serial No. 590,761

4 Claims. (Cl. 29—189)

3. The method of making faced metal sheets which comprises preparing two thin sheets of a stable surface ferrous alloy, putting separating material between the sheets, positioning the sheets in an ingot mold and positively holding the sheets together so as to prevent the ingress of molten metal between them, casting ferrous metal



around such sheets of a thickness of at least about three times the thickness of such sheets, permitting such cast metal to shrink around and against the sheets, whereby an ingot is formed adapted to be separated into two parts, and thereafter separating and hot working such ingot parts.

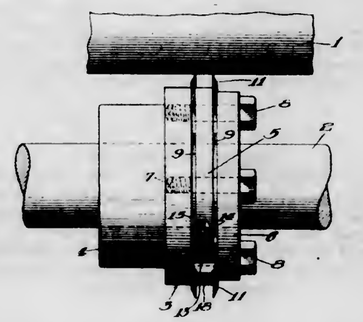
19,059

ONE-PIECE CUTTER

Louis C. Schillo, Chicago, Ill., assignor, by mesne assignments, to Asphalt Process Corporation, New York, N. Y., a corporation of New Jersey

Original No. 1,856,433, dated May 3, 1932, Serial No. 408,460, November 20, 1929. Application for reissue July 25, 1933. Serial No. 682,099

17 Claims. (Cl. 164—68)



17. In a rotating cutting device, a one-piece knife having a blade formed with opposite faces extending generally transverse to the axis of rotation and having a blade integral with said first blade formed with a face extending generally in the direction of said axis, the cutting edges of said blades meeting at the line of joinder of the blades, and means for carrying said knife arranged to rotate upon said axis, said means including means bearing upon the faces of said first blade to clamp the knife in position and having a surface against which the face of the axially extending blade may bear when the knife is in position.

19,060
DRAWING MATERIAL
Herman Emanuel Braeg, St. Mary's College, Calif., assignor, by direct and mesne assignments, to St. Mary's College, Oakland, Calif., a corporation of California
No Drawing. Original No. 1,780,113, dated October 28, 1930, Serial No. 376,293, July 5, 1929. Application for reissue September 26, 1932. Serial No. 634,980
6 Claims. (Cl. 91—68)

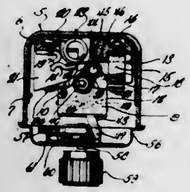
1. As an article of manufacture, an improved pastel receiving surface, including a base of fibrous material, and a coating of a monochromatic mix comprising silicon carbide, garnet and quartz powder adhered thereto to a uniform depth.

19,061
INK BOTTLE PEN FILLING PROTECTOR
Charles Wight MacMillan, Boston, Mass.
Original No. 1,811,361, dated June 23, 1931, Serial No. 425,876, February 4, 1930. Application for reissue June 20, 1933. Serial No. 676,752
9 Claims. (Cl. 120—57)



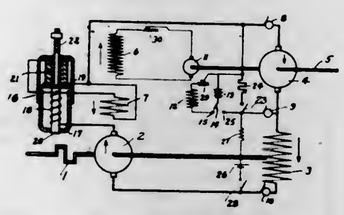
1. An ink bottle pen filling protector consisting of a flat, washer-shaped ring; the flat surface of said ring being soft and forming a cushion; a thin, elastic membrane attached to and extending radially from the outer, circumferential edge of said ring; said elastic membrane terminating in a circular, elastic bead and being provided with means of allowing air to pass thru said membrane; said membrane being flexible, and elastic and assuming no definite rigid shape.

19,062
OVERLOAD RELAY
Gustav O. Wilms, Milwaukee, Wis., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Original No. 1,844,491, dated February 9, 1932, Serial No. 298,300, August 8, 1928. Application for reissue October 30, 1933. Serial No. 695,938
1 Claim. (Cl. 200—124)



In an overload relay of the character described, a circuit closure normally yieldably urged to one position, a mounting member, an actuating member carried thereby and adapted to hold the circuit closure in its other position, a tubular stem carried by said mounting member, a locking member on said tubular stem, thermally responsive means normally securing the locking member fixed to the stem, means connecting the actuating member with the locking member to normally maintain the actuating member in its position urging the circuit closure to said other position, and a heating coil surrounding the stem whereby an increase in temperature of the coil is readily conducted to the thermally responsive means securing the locking member in fixed position through the tubular stem to free the locking member and permit the actuating member to move to a position releasing the circuit closure for movement to its first-mentioned position.

19,063
POWER TRANSMISSION DEVICE
Alfons H. Neuland, Irvington, N. J., assignor, by mesne assignments, to Electrogear Corporation, a corporation of Delaware
Original No. 1,784,369, dated December 9, 1930, Serial No. 162,788, January 22, 1927. Application for reissue December 6, 1932. Serial No. 645,998
24 Claims. (Cl. 172—239)

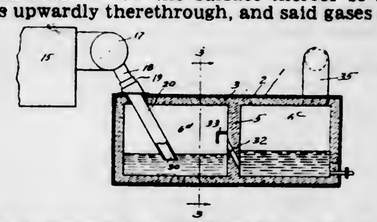


1. In a power transforming mechanism, a magnetic induction clutch comprising a rotative field and armature, associated between a power source and a load shaft, an electrodynamic booster, likewise having armature and field elements, and mechanically associated with the power source, and means for controlling the direction and amount of transfer of power through said booster, comprising an auxiliary field winding therein, and a regulating dynamo connected thereto and operatively associated with the load shaft, having an armature and a field, and means for the steady energization of said field, whereby a controlling current is produced by said regulating dynamo in accordance with the speed of the load shaft, and means comprising a variable resistance in shunt to the series field of said booster, and a magnetic control device cooperating therewith, for variably shunting current from the booster field as the load current varies.

19,064
METHOD AND APPARATUS FOR CONCENTRATING SULPHURIC ACID
William C. Mast, Long Beach, Calif., assignor, by mesne assignments, to Chemical Construction Corporation, a corporation of Delaware
Original No. 1,790,507, dated January 27, 1931, Serial No. 221,157, September 22, 1927. Application for reissue April 16, 1931. Serial No. 530,701
15 Claims. (Cl. 23—171)

12. An apparatus for concentrating a liquid by direct internal heat treatment comprising means defining a plurality of chambers, means for passing liquid through said chambers in series, a furnace for producing hot gases and conduits for allowing said gases to pass under positive pressure successively through said chambers and for causing the gases to pass from above the liquid level in one of said chambers to below the liquid level in another of said chambers in the direction of gas flow.

15. The method of concentrating a liquid by direct internal heat treatment which consists in maintaining the liquid in separate bodies defining a plurality of separate stages, and in producing hot gases in a furnace device, introducing said heated gases serially through and beneath the surfaces of the liquid bodies in said plurality of stages, the gases being delivered to each of the liquid bodies below the surface thereof so as to pass upwardly therethrough, and said gases after

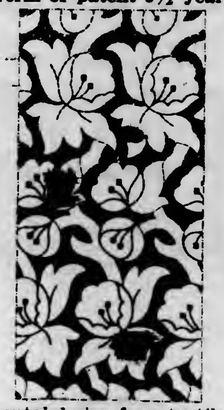


flowing through the liquid body in one of said stages being delivered to the liquid body in another of said stages.

DESIGNS

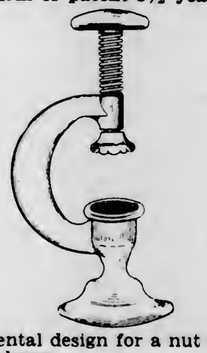
JANUARY 23, 1934

91,383
DESIGN FOR A TEXTILE FABRIC
Jean Aemisegger, Bergenfield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn., a corporation of Connecticut
Application December 20, 1933. Serial No. 50,139
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

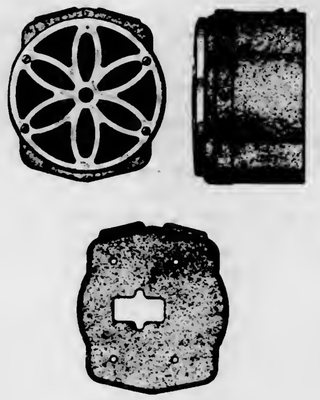
91,384
DESIGN FOR A NUT CRACKER
William Henry Ammon, Los Angeles, Calif.
Application May 27, 1933. Serial No. 48,222
Term of patent 3½ years



The ornamental design for a nut cracker, substantially as shown.

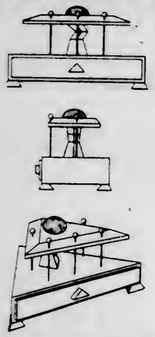
91,385
[WITHDRAWN]

91,386
DESIGN FOR A CASE FOR AUTOMOBILE RADIOS
Earl C. Booth, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application May 12, 1933. Serial No. 48,086
Term of patent 7 years



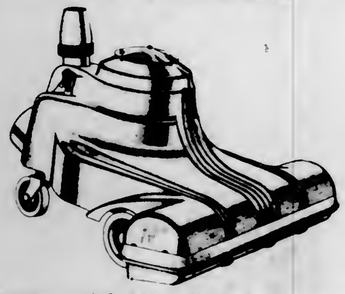
The ornamental design for a case for an automobile radio as shown.

91,387
DESIGN FOR A SEWING CABINET
Edwin Boutton and Harry A. Brunner, Cincinnati, Ohio
Application October 30, 1933. Serial No. 49,610
Term of patent 3½ years



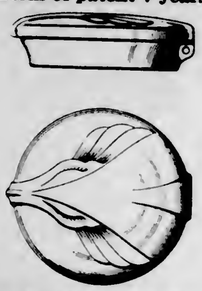
The ornamental design for a sewing cabinet, as shown.

91,388
DESIGN FOR A VACUUM CLEANER CASING
Allmon Fordyce, New York, N. Y., assignor to General Electric Company, a corporation of New York
Application October 18, 1933. Serial No. 49,508
Term of patent 14 years



The ornamental design for a vacuum cleaner casing, as shown.

91,389
DESIGN FOR A RADIATOR CAP
Lester K. Franklin, Chicago, Ill.
Application December 1, 1933. Serial No. 49,901
Term of patent 7 years



The ornamental design for a radiator cap, substantially as shown.

91,390
DESIGN FOR A BOTTLE DISPENSING REFRIGERATOR OR THE LIKE
Chester A. Frick, Muncie, Ind., assignor to Glascock Brothers Mfg. Co., Muncie, Ind., a corporation of Indiana
Application November 29, 1933. Serial No. 49,892
Term of patent 7 years



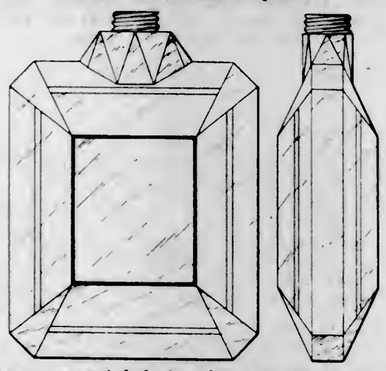
The ornamental design for a bottle dispensing refrigerator or the like, as shown.

91,391
DESIGN FOR A BOTTLE DISPENSING REFRIGERATOR OR THE LIKE
Chester A. Frick, Muncie, Ind., assignor to Glascock Brothers Mfg. Co., Muncie, Ind., a corporation of Indiana
Application November 29, 1933. Serial No. 49,893
Term of patent 7 years



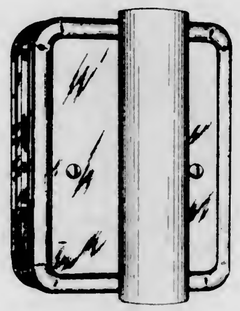
The ornamental design for a bottle dispensing refrigerator or the like, as shown.

91,392
DESIGN FOR A BOTTLE
Frank J. Hale, Flushing, and William H. Gibson, New York, N. Y.
Application November 28, 1933. Serial No. 49,888
Term of patent 14 years



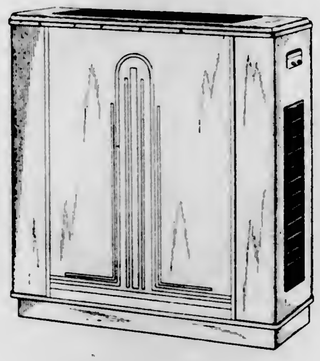
The ornamental design for a bottle, as shown.

91,393
DESIGN FOR A SIGNAL CHIME
Robert D. Karnell, Cleveland, Ohio, assignor to Karmac, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 1, 1933. Serial No. 47,962
Term of patent 14 years



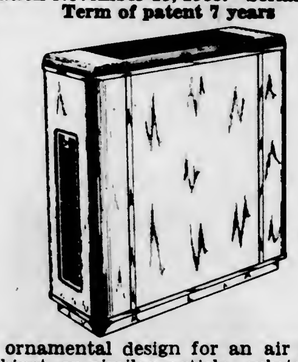
The ornamental design for a signal chime, substantially as shown.

91,394
DESIGN FOR AN AIR CONDITIONING CABINET OR SIMILAR ARTICLE
Ralph E. Kruck, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application September 19, 1933. Serial No. 49,297
Term of patent 7 years



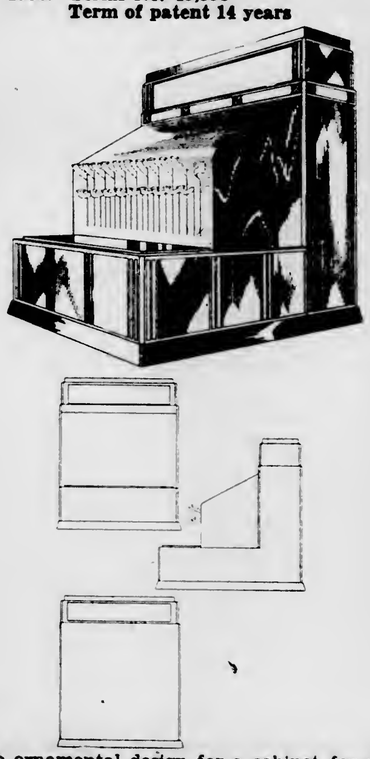
The ornamental design for an air conditioning cabinet or similar article, substantially as shown.

91,395
DESIGN FOR AN AIR CONDITIONING CABINET OR SIMILAR ARTICLE
Ralph E. Kruck, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application November 15, 1933. Serial No. 49,732
Term of patent 7 years



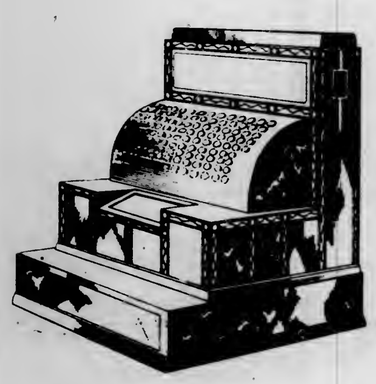
The ornamental design for an air conditioning cabinet or similar article, substantially as shown.

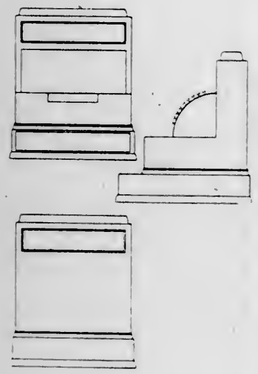
91,396
DESIGN FOR A CABINET FOR CASH REGISTERS
James Douglas Lorenz, Dayton, Ohio
Original application October 8, 1932, Serial No. 45,259. Divided and this application October 30, 1933. Serial No. 49,593
Term of patent 14 years



The ornamental design for a cabinet for cash registers, substantially as shown and described.

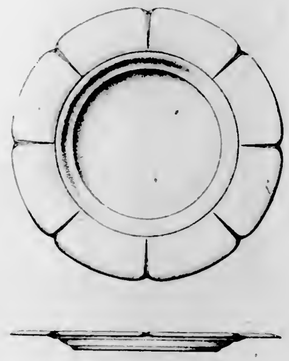
91,397
DESIGN FOR A CABINET FOR CASH REGISTERS
James Douglas Lorenz, Dayton, Ohio
Original application October 8, 1932, Serial No. 45,259. Divided and this application October 30, 1933. Serial No. 49,594
Term of patent 14 years





The ornamental design for a cabinet for cash registers, substantially as shown and described.

91,398
DESIGN FOR A PLATE OR ARTICLE OF ANALOGOUS NATURE
Ferdinand Poppenhauser, Newburyport, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a corporation of Massachusetts
Application August 16, 1933. Serial No. 49,039
Term of patent 3½ years



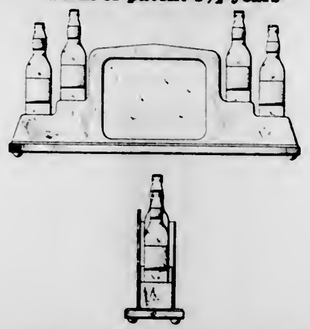
The ornamental design for a plate or article of analogous nature, substantially as shown and described.

91,399
DESIGN FOR A PLATE OR ARTICLE OF ANALOGOUS NATURE
Ferdinand Poppenhauser, Newburyport, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a corporation of Massachusetts
Application August 16, 1933. Serial No. 49,040
Term of patent 3½ years



The ornamental design for a plate or article of analogous nature, substantially as shown and described.

91,400
DESIGN FOR A DISPLAY SIGN FOR BOTTLED PRODUCTS
Grant W. Roberts, Baltimore, Md.
Application April 27, 1933. Serial No. 47,916
Term of patent 3½ years



The ornamental design for a display sign for bottled products, as shown and described.

91,401
DESIGN FOR A TEXTILE FABRIC
Jean Aemisegger, Bergenfield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn., a corporation of Connecticut
Application December 20, 1933
Serial No. 50,140
Term of patent 3½ years



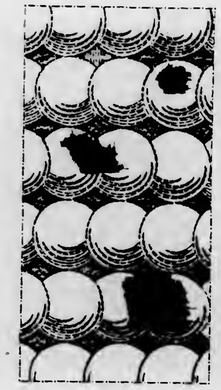
The ornamental design for a textile fabric, substantially as shown and described.

91,402
DESIGN FOR A BOWL OR SIMILAR ARTICLE
William W. Dodge, Jr., Asheville, N. C.
Application January 18, 1932. Serial No. 42,522
Term of patent 14 years



The ornamental design for a bowl or similar article, as shown and described.

91,403
DESIGN FOR A TEXTILE FABRIC
Hugo Flatz, Hasbrouck Heights, N. J., assignor to The American Fabrics Company, Bridgeport, Conn., a corporation of Connecticut
Application December 20, 1933. Serial No. 50,141
Term of patent 3½ years



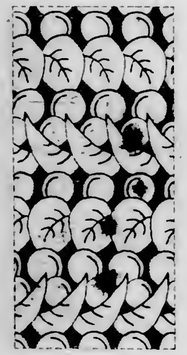
The ornamental design for a textile fabric, substantially as shown and described.

91,404
DESIGN FOR A TEXTILE FABRIC
Max U. Juestrich, Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn., a corporation of Connecticut
Application December 20, 1933. Serial No. 50,133
Term of patent 3½ years



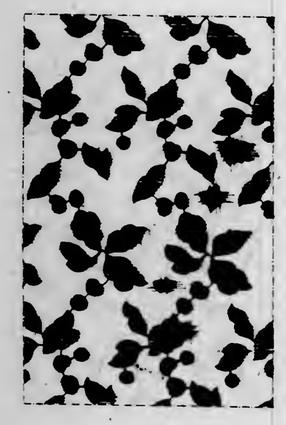
The ornamental design for a textile fabric, substantially as shown and described

91,405
DESIGN FOR A TEXTILE FABRIC
Max U. Juestrich, Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn., a corporation of Connecticut
Application December 20, 1933. Serial No. 50,136
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

91,406
DESIGN FOR A TEXTILE FABRIC
Max U. Juestrich, Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn., a corporation of Connecticut
Application December 20, 1933. Serial No. 50,138
Term of patent 3½ years



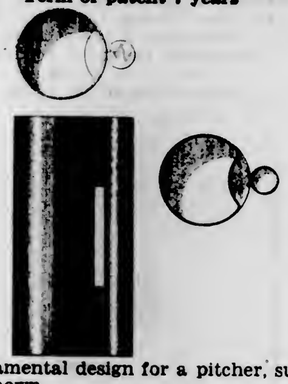
The ornamental design for a textile fabric, substantially as shown and described.

91,407
DESIGN FOR A DRINKING CUP OR SIMILAR ARTICLE
Edward Kanter, Cleveland Heights, Ohio
Application August 14, 1933. Serial No. 49,018
Term of patent 7 years



The ornamental design for a drinking cup or similar article, substantially as shown.

91,408
DESIGN FOR A PITCHER
Edward Kanter, Cleveland Heights, Ohio
Application November 16, 1933. Serial No. 49,750
Term of patent 7 years



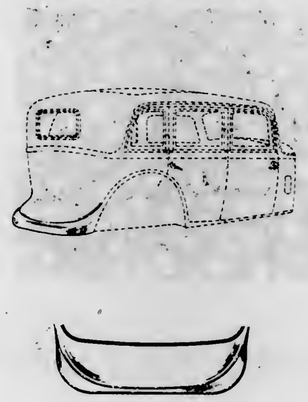
The ornamental design for a pitcher, substantially as shown.

91,409
DESIGN FOR A GOBLET
Edward Kanter, Cleveland Heights, Ohio
Application November 16, 1933. Serial No. 49,751
Term of patent 7 years



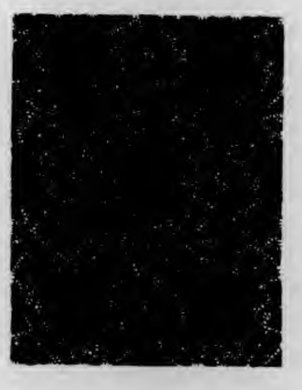
The ornamental design for a goblet, substantially as shown.

91,410
DESIGN FOR AN AUTOMOBILE BODY
Amos E. Northup, Pleasant Ridge, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Continuation of application Serial No. 43,956, June 2, 1932. This application March 9, 1933. Serial No. 47,419
Term of patent 7 years



The ornamental design for an automobile body substantially as described and shown.

91,411
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application December 15, 1933. Serial No. 50,084
Term of patent 7 years



The ornamental design for lace, substantially as shown.

91,412
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Paul Reiman, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 23, 1933. Serial No. 50,199
Term of patent 3½ years



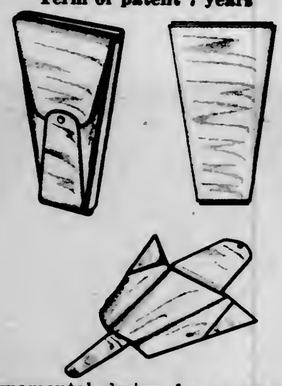
The ornamental design for a textile fabric or similar article as shown.

91,413
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Paul Reiman, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 23, 1933. Serial No. 50,198
Term of patent 3½ years



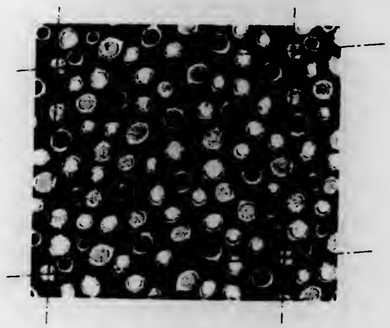
The ornamental design for a textile fabric or similar article as shown and described.

91,414
DESIGN FOR A CASE FOR TOILET ARTICLES
Abraham L. Siegel, Brooklyn, N. Y., and Hiram A. Jacobs, Minneapolis, Minn., assignors to A. L. Siegel Co., Inc., New York, N. Y., a corporation of New York
Application September 9, 1933. Serial No. 49,227
Term of patent 7 years



The ornamental design for a case for toilet articles as shown and described.

91,415
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,949
Term of patent 3½ years

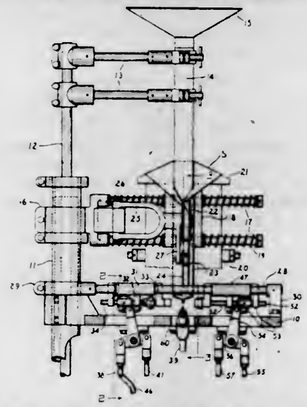


The ornamental design for a textile fabric or similar article as shown and described.

PATENTS

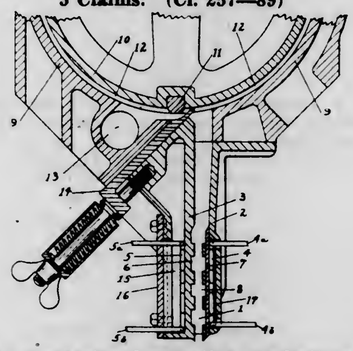
GRANTED JANUARY 23, 1934

1,944,147
BAG MAKING AND FILLING MACHINE
John P. Aldrich, Toledo, Ohio
Application April 4, 1931. Serial No. 527,715
24 Claims. (Cl. 93—3)



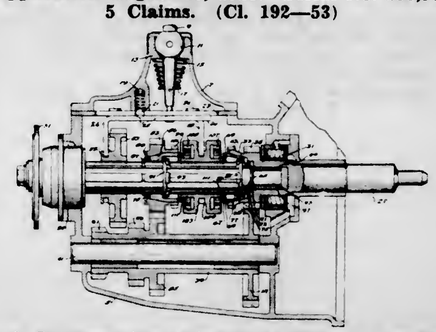
1. In a machine of the character described, clamps for engaging opposite sides of a bag tube and holding a pair of strips in parallel relation against one side of said tube, means for severing said bag tube between said strips, and mechanism for bending said strips over the adjacent severed ends of said bag tube thereby to close same.

1,944,148
APPARATUS FOR COATING CONFECTIONS
George Ralph Baker and George Donald Wilson, Willesden Junction, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich., a corporation of New York
Application July 15, 1932, Serial No. 622,672, and in Great Britain July 25, 1931
5 Claims. (Cl. 257—89)



2. An apparatus for coating confections and the like comprising an elongated conduit through which a curtain of coating material flows, the walls of said conduit being spaced apart a distance approximating the thickness of the coating after it is applied to the confections, means for admitting a temperature controlling fluid adjacent the walls of said conduit to promote the degree of graining of both sides of the coating material before it is applied to the confections, and recesses on the inner surfaces of said walls, said recesses extending transversely to the flow of the curtain of coating material for containing a solid or "starter" coating material to assist in the graining of the curtain of coating material.

1,944,149
FRICTION AND POSITIVE CLUTCH MECHANISM
Roscoe Beringer, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 16, 1928. Serial No. 299,961
5 Claims. (Cl. 192—53)

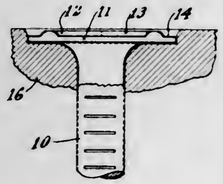


1. In power transmission mechanism, a shaft; a composite frictional and positive clutch coaxial with the shaft, a positive clutch component consisting of a jaw clutch element capable of rotation with respect to the shaft, but restrained from axial movement, and a companion element slidably keyed to the shaft, said companion element having a central hub portion embracing the shaft and jaws disposed radially outward of said hub portion in position to interlock with the jaws of the element restrained from axial movement; the frictional clutch component consisting of a cone surfaced element fixed to the jaw clutch element that is restrained from axial movement, and a companion axially movable cone clutch element, having driving connection with the shaft, interposed between the elements of the jaw clutch component, and an opening therein arranged to remove obstruction to the advance of the slidable jaw clutch element toward its companion; an elastic device interposed between the axially movable friction clutch element and the hub of the slidable jaw clutch element, said elastic device having a positive engagement in an axial direction with one of these elements and arranged to engage frictionally the other during movement of the slidable jaw clutch element toward its companion.

1,944,150
NAIL
Benjamin C. Brugge, Alabama City, Ala., assignor to Gulf States Steel Company, a corporation of Delaware
Application June 30, 1932. Serial No. 620,071
2 Claims. (Cl. 85—28)

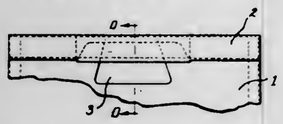
1. A nail having a relatively thin head reenforced by a plurality of ribs of substantial thick-

ness distributed over it and having a protective coating for the nail and ribbed head, the ribs being sufficient in height, strength and proximity



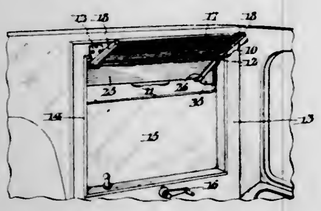
to protect throughout the relatively thinner coated head of the nail from hammer blows that might strip or deface the exposed protective coating on the unribbed portion of the nail head.

1,944,151
BAG AND SACK
Charles Butterfield, Norwood, and Harold W. Nichols, Cincinnati, Ohio; said Butterfield assignor to said Nichols
Application April 9, 1931. Serial No. 528,780
5 Claims. (Cl. 229—68)



1. A bag for the purpose described having a closing flap at one side thereof, and a locking flap projecting from an intermediate portion of the closing flap, hand holes in the sides of the bag registering with the locking flap, and a reinforcing strip secured to the top edge of the bag opposite the closing flap and having an intermediate portion unsecured to the bag behind which the locking flap can be tucked.

1,944,152
SHIELD FOR VEHICLE WINDOWS
William T. Clark, Philadelphia, Pa.
Application September 18, 1930
Serial No. 482,675
5 Claims. (Cl. 296—44)



1. The combination with the sliding sash glass of a window and shield means including a wing, of a pivot mounting for supporting the wing inside the top of the window with capacity for projection outward through the window opening, said pivot mounting including a bracket secured to the window frame, and a hanger with an adjustable split bearing boss to frictionally engage a non-rotative pintle in the bracket whereby the wing is yieldingly held against displacement in different positions of adjustment.

1,944,153
PRODUCTION OF DIOLEFINES
Martin Mueller-Cunradi, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application September 27, 1929, Serial No. 395,752, and in Germany October 4, 1928
8 Claims. (Cl. 260—171)

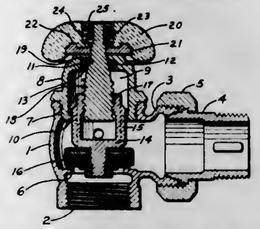
1. A process for the production of diolefines which comprises passing a butylene glycol together with an addition of water vapor at a temperature between 160 and 500° C. over a solid oxide dehydration catalyst.

1,944,154
STOP LIGHT LENS
John B. Dickson, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
Application February 10, 1930. Serial No. 427,269
9 Claims. (Cl. 177—329)



1. A one piece lens comprising a central condensing lens, and a surrounding annular catadioptric lens having annular prism portions, said lenses having a common focus, the sides of each of said prism portions diverging by an angle of at least 2° from a line passing through the apex of the corresponding portion of the lens and extending parallel to the axis of the lens.

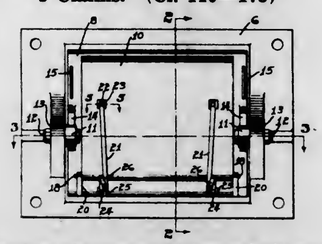
1,944,155
VALVE
Fred R. Dippman, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application December 11, 1931
Serial No. 580,283
4 Claims. (Cl. 251—48)



2. A valve comprising a body and a seat therein, a disc holder and a graphitized-metal disc therein to engage the seat, a rotatable non-rising

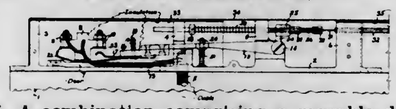
stem having a threaded engagement with the holder to reciprocate the holder relative to the seat when the stem is rotated, a recess in the body through which the stem passes, a graphitized-metal member positioned in said recess and cement interposed between the member and faces of the recess, a seat on said member engaging a seat on the stem to prevent leakage around the stem, a flange on the body to hold the member in the recess, a handle on the stem to rotate the same and a spring holding the seats on the stem and graphitized-metal member constantly in engagement.

1,944,156
SAFETY DOOR
Douglas L. Feltham, Toledo, Ohio
Application November 10, 1930
Serial No. 494,541
5 Claims. (Cl. 110—173)



1. A safety door comprising a hollow rectangular frame, means for rigidly and removably securing said frame in closed relation to a doorway, a panel adapted to close the opening in said hollow frame and having near its lower edge a lost motion pintle connection with said frame, and means exerting pressure against the outside face of the panel and tending to swing the panel about the said pintle connection into closed relation to said opening, the contact of said means with the panel being above the center line of the latter, so that an internal explosion tends first to unseat the panel adjacent the pintle connection and then to swing the panel about said connection.

1,944,157
SWITCH MECHANISM
Paris R. Forman, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a corporation of West Virginia
Application November 5, 1932. Serial No. 641,388
5 Claims. (Cl. 200—54)

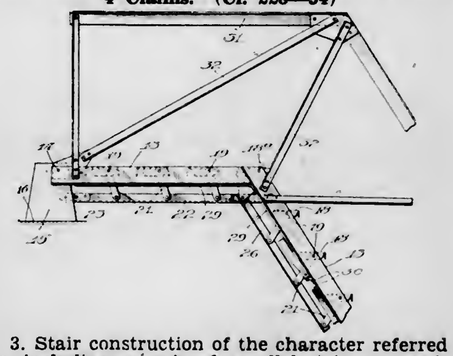


5. A combination comprising a movable door, a contact supported on the forward edge of the door, a switch arm pivotally mounted on the forward edge of the door so as to be movable to engage the contact, a spring normally urging the switch arm into engagement with the contact, a lever pivotally mounted near the bottom edge of the door, a wire secured to said lever, resilient means attached to the other end of the wire for holding the wire under tension, said lever having means for limiting its rotation under the pull of said wire, means interconnecting said switch arm and wire for normally holding the switch arm out of engagement with the contact against the resistance of said spring, and a flexible enclosing casing for said wire.

1,944,158
METHOD FOR PRODUCING ZINC OXIDE
Richard W. French, Bristol, Pa., assignor to Superior Zinc Corporation, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application December 23, 1930
Serial No. 504,421
5 Claims. (Cl. 23—147)

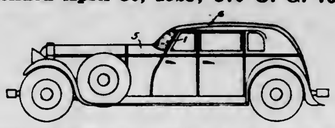
2. The method of producing zinc oxide from by-product zinc residues containing an alkali metal salt and a substantial amount of zinc carbonate, which includes boiling the residues with water to render the alkali metal salt content soluble, washing to dissolve and practically completely remove the alkali metal salt content, and then calcining the residue.

1,944,159
STAIR CONSTRUCTION
Otterbein A. Bailey, Chicago, Ill., assignor to Chicago Bridge and Iron Company, Chicago, Ill., a corporation of Illinois
Application November 2, 1931. Serial No. 572,673
4 Claims. (Cl. 228—54)



3. Stair construction of the character referred to, including; a pair of parallel stringers, each having an upper and lower portion angularly connected, the upper ends of said stringers being pivotally attached to a support and their lower ends free to swing; a plurality of horizontal treads pivotally mounted between the upper portions of said stringers; a plurality of horizontal treads pivotally mounted between the lower portions of said stringers; and a link bar pivotally connected to the treads substantially between the upper portions of the stringers and a second link bar pivotally connected to the treads substantially between the lower portions of the stringers, the adjacent ends of said link bars being both pivotally connected to the same tread, and one of said link bars being anchored whereby the treads will be maintained in horizontal position during the swinging movement of the stair.

1,944,160
WINDSHIELD
George A. Barker, Rochester, N. Y.
Application April 13, 1932. Serial No. 605,087
5 Claims. (Cl. 296—84)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A windshield comprising a piece of glass provided with reflex bands at top and bottom edges,

said bends changing in curvature from a maximum midway the side edges to a minimum at said side edges.

1,944,161

PRODUCTION OF ADDITION PRODUCT OF UNSATURATED HYDROCARBONS

John Philip Baxter, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application February 12, 1931, Serial No. 515,414, and in Great Britain February 12, 1930

7 Claims. (Cl. 260—166)

1. In the catalytic production of an addition compound of an unsaturated hydrocarbon and a member of the class consisting of hydrogen halides and alkyl halides in the presence of active carbon as catalyst, the step of reactivating the partially spent catalyst by temporarily interrupting the flow of the reaction gas mixture and substituting a stream of halide of the character which is to be employed in the reaction, the temperature during this stage being 200°–600° C. and being greater than the reaction temperature.

1,944,162

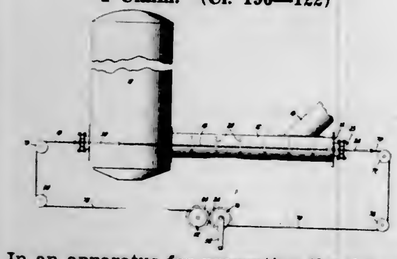
DEVICE FOR PURGING CONDUITS OF CARBON OR THE LIKE

Edwin W. Beardsley, Texas City, Tex., assignor to Petroleum Conversion Corporation, New York, N. Y., a corporation of Delaware

Application November 12, 1929

Serial No. 406,609

1 Claim. (Cl. 196—122)



In an apparatus for preventing the deposition of carbon from a gaseous stream containing same in suspension, in combination with a substantially horizontal conduit through which said stream is passed, agitating elements therein of a size nearly equal to the cross section of said conduit but offering only slight resistance to the flow of gases through the conduit, said elements also being disposed with reference to the conduit so as to be operative in either direction of movement lengthwise of the conduit, a flexible member connecting said agitating elements and means operating upon the ends of said member to alternately pull same first in one direction of the conduit and then in the other.

1,944,163

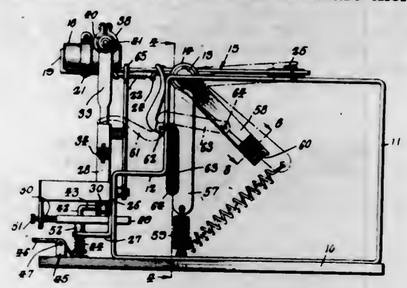
ELECTRIC CASTING AND MOLDING MACHINE

Foy E. Bellows, Whitewright, Tex., assignor of one-third to R. Lee Bellows, Collin County, Tex., and one-third to Guy Hamilton, Whitewright, Tex.

Application May 13, 1932. Serial No. 611,198

5 Claims. (Cl. 22—65)

1. In a machine of the character described, a vertically swinging arm forming a carriage, mold sections removably mounted on one end of the carriage and separable one from the other, oppositely arranged vertically swinging members movable at right angles to the path of movement of said arm, carbon supports adjustably pivoted to said members, carbons on said supports for arrangement in an electric circuit and movable by said supports to intersect one section of the mold and creating an electric flame arc therein,



said carbons having matching recesses providing a metal receiving pocket communicative with the mold sections, means for latching the arm when in position for the intersection of the carbons with the mold sections and releasable on the separation of the carbons, and means movable to latching position with the arm and placing the latter under tension whereby on separation of the carbons the arm will be swung to a position for delivering contents from the mold sections.

1,944,164

CHASSIS LUBRICATING OIL AND METHOD FOR TESTING THE SAME

Joseph Bijur, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware

Application December 14, 1928

Serial No. 326,042

3 Claims. (Cl. 87—9)



1. A chassis lubricating oil comprising a base of petroleum oil made from asphaltic crudes and of viscosity in the order of 3000 S. U. V., having admixed therewith a small percentage of blown rape seed oil.

1,944,165

DUPLICATING MACHINE

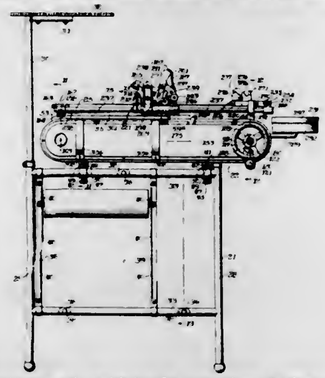
Ulrik I. T. Blomberg, Enskede - Stockholm, Sweden, assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application July 30, 1928. Serial No. 296,127

86 Claims. (Cl. 101—133)

1. In a hectograph machine, in combination, a stand including fore and aft members, a body member supported by said stand, studs, carried by said fore and aft members, eye portions secured to said body member, said studs being disposed within said eye portions, each of said studs comprising a pair of clamping members, securing means for holding together the clamping members of each of said studs on its underside, and

a washer for securing together said clamping members of each stud upon its upper side, said



eye portions of said body member being carried by said washers.

1,944,166

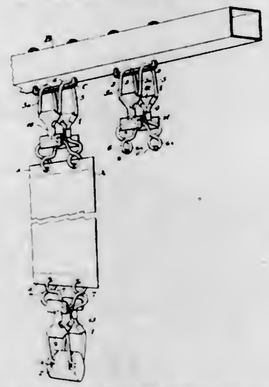
CLAMPING DEVICE

Elmer H. Brunner, East Cleveland, Ohio, assignor to Brunner-State Studios, Inc., Cleveland, Ohio, a corporation of Ohio

Application December 14, 1932

Serial No. 647,135

11 Claims. (Cl. 24—255)



1. An article of the class described comprising a pair of resilient wire sections bent intermediate their ends to form legs terminating in clamping members normally in engagement, the legs of one section being substantially parallel to the legs of the other section, and a connection between each leg of one section and the corresponding leg of the other section, whereby each two connected legs move together.

1,944,167

ALLOY FOR USE IN THE MANUFACTURE OF TETRAETHYL LEAD

William S. Calcott, Penns Grove, and Alfred E. Parmelee, Carneys Point, and Homer F. Meschter, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application August 17, 1928, Serial No. 300,370. Divided and this application October 22, 1929. Serial No. 401,621

3 Claims. (Cl. 75—1)

1. A new composition of matter for use in the production of alkyl lead compounds which comprises the product obtained by melting together substantially 10 parts sodium, 90 parts lead and 0.01 part of one of the members of the group consisting of aluminum chloride and ferric chloride.

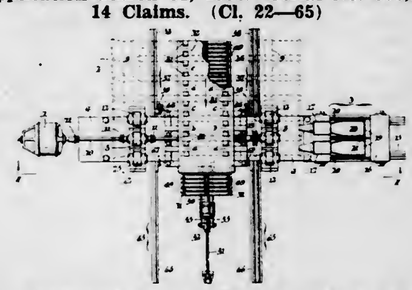
1,944,168

CENTRIFUGAL CASTING MACHINE

Louis A. Camerota, Burlington, N. J., assignor to Walter Wood, Philadelphia, Pa.

Application March 31, 1932. Serial No. 602,175

14 Claims. (Cl. 22—65)



1. Apparatus for centrifugally casting hollow metal bodies comprising a frame, bearings thereon for supporting a plurality of molds with their axes in substantially horizontal and parallel relation, means for simultaneously rotating said molds, and a mold carrier adapted to support a plurality of molds in spaced parallel relation to each other, said carrier being movable transversely of said frame from a position at the side thereof to a position above said bearings and operable to deposit simultaneously on said bearings a set of molds to be charged.

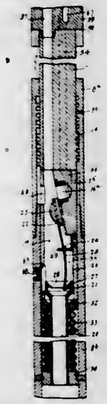
1,944,169

SUCTION FISHING TOOL

Omar A. Cavins, San Francisco, Calif.

Application July 11, 1932. Serial No. 621,761

20 Claims. (Cl. 294—86)



1. In a suction fishing tool for use in deep wells, the combination of a casing having a bowl at its lower end, and having a closed chamber above the bowl, a valve normally cutting off communication between the interior of the bowl and the interior of said chamber, means for attaching the upper end of the casing to a tool string, said casing comprising relatively movable upper and lower sections, a valve puller for engaging the valve, cooperating with the relatively movable

sections and brought into action by the relative movement of the said upper and lower sections to effect engagement with the valve and open the same, and thereby cause an inrush of material at the well bottom into the bowl due to the hydrostatic pressure in the well, to carry in the "fish", and means for retaining the "fish" in the bowl.

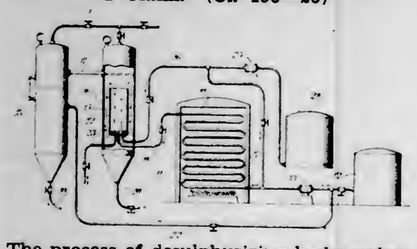
1,944,170

PROCESS OF DESULPHURIZING, DECOLORIZING, DEODORIZING, AND DEGUMMING HYDROCARBONS, AND OF PROVIDING A PROTECTIVE BUFFER FOR APPARATUS

Homer T. Darlington, West Chester, Pa., assignor, by mesne assignments, to Oil Corporation of America, a corporation of Delaware

Application November 24, 1926, Serial No. 150,629. Renewed March 23, 1933

1 Claim. (Cl. 196—26)



The process of desulphurizing hydrocarbon oil which consists in subjecting a mass of liquid hydrocarbon oil to cracking conditions within an apparatus, the walls of which are subject to the corrosive effects of sulphur, and of incorporating throughout the mass of liquid hydrocarbon oil finely divided particles of metallic iron in a colloidal state of subdivision produced in situ from oxide of iron dispersed and incorporated throughout the mass of liquid hydrocarbon oil and forming points for the sulphur to react upon.

1,944,171

RATCHET WRENCH

Arthur Daugherty, Kincaid, Saskatchewan, Canada

Application March 14, 1933. Serial No. 660,756

3 Claims. (Cl. 81—58)



1. A wrench of the character described comprising a barrel of circular form having a center socket of flat sided form, circular trunnions on opposite sides of the barrel and concentrically of the center socket, a head including a pair of cheek plates having openings accommodating the trunnions of the barrel, a lever located between the cheek plates and having double reverse ratchet action upon the barrel, said lever being furcated, a pin securing the cheek plates and received in the furcation, said lever having elongated openings, fulcrum members carried between the cheek plates and received in said elongated openings, a latch pivoted for rocking movement upon the lever and having a center notch, and a rotatable cam operative in the center notch in said latch to rock the latter either in a right hand or left hand direction to locate the latch relative to the fulcrum members for assuring a right hand or left hand ratchet action of the lever.

1,944,172

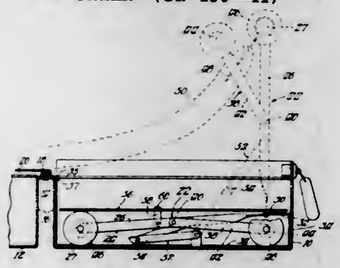
LUGGAGE

Emanuel Dresner, Chicago, Ill.

Application December 11, 1930

Serial No. 501,482

1 Claim. (Cl. 190—41)



The combination with a container comprising two sections hingedly connected together, of a first U-shaped frame having the ends of its legs pivoted in one of the sections and remote from the hinge for rotation about an axis parallel with the hinge, holder means associated with the bight of said first frame for receiving and holding one end of a garment, a second U-shaped frame having the ends of its legs pivoted to the mid-points of the legs of the first frame, a garment-folding roller associated with the bight of said second frame, the legs of said second frame being substantially half as long as the legs of said first frame, whereby the bight of the first frame limits the movement of the second frame, and enlargements at the ends of the bights of both frames for guiding garments into place and for engaging all four corners of the bottom of the section into which the frames are folded, to hold both frames spaced from said bottom.

1,944,173

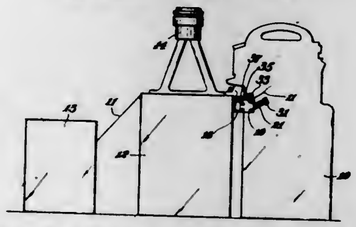
VARIABLE SPEED CONTROL FOR STOCK QUOTATION PROJECTORS

August D. Eitzen, Rockville Center, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York

Application April 23, 1929, Serial No. 357,449

Renewed January 21, 1933

16 Claims. (Cl. 271—2.3)



1. In a stock ticker projecting machine adapted to discharge marked tape at varying rates, a tape pulling mechanism including an electric motor for drawing the tape across the light aperture of the projecting machine, an automatic rheostat device for controlling the speed of said motor, said device comprising a well, a set of rheostat contacts projecting thereinto, a supply of conductive liquid in the well and normally at a level too low to submerge all of said contacts, a movable displacement member adapted to enter said liquid to raise the level thereof accordingly, and means responsive to the rate of ticker discharge for moving said member.

1,944,174

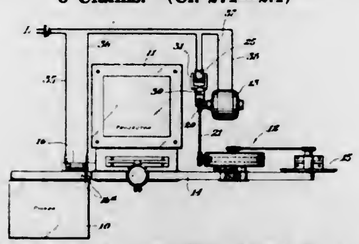
QUOTATION PROJECTION OR SIMILAR APPARATUS

August D. Eitzen, Rockville Center, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York

Application December 6, 1929, Serial No. 412,056

Renewed April 18, 1933

8 Claims. (Cl. 271—2.4)



1. A tape feed controlling device in a stock quotation projecting machine having a tape puller posterior to the projector, an electric motor driving the puller, a switch for opening and closing the motor circuit and controlled by the tape intermediate the ticker and the projector, and a brake under control of the switch and acting promptly upon interruption of the motor circuit to stop tape movement posterior to the ticker.

1,944,175

PROCESS OF ODORIZING LIQUEFIED PETROLEUM GASES

Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware

No Drawing. Application October 7, 1929

Serial No. 398,109

3 Claims. (Cl. 44—8)

1. A liquefied petroleum gas having admixed therewith a volatile odorizing agent in amount sufficient to odorize the leanest flammable mixture of said gas with air, and containing a substance having the characteristics of kerosene to avoid the delivery of excessive concentration of said odorizer from a substantially empty cylinder from which the gas is delivered.

3. Liquefied petroleum gas containing a volatile odorizing agent and a substance dissolving the odorizing agent, but miscible to no more than a limited degree with the liquefied petroleum gas.

1,944,176

SLIP-SHEETING ATTACHMENT FOR MIMEOGRAPH OR SIMILAR APPARATUS

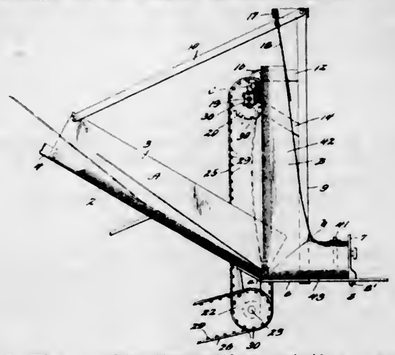
Clarence E. Higbee, Brooklyn, N. Y.

Application March 23, 1931. Serial No. 524,647

12 Claims. (Cl. 34—1)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The combination with a printing apparatus including an impression producing device, its actuating means and an impression sheet receiver; of a sheaf positioned at one end of the receiver and composed of a plurality of highly flexible slip sheets united at one end, means for mounting a portion of said sheaf at a predetermined angle with respect to said receiver and a feeding mechanism operating in synchronism with said actuating means and coacting with the slip sheets to effect their discharge to the receiver into overlying relation with respect to the impression sheets as they leave the impression producing device, said actuating means prior to discharging each leaf imparting a flexure thereto intermediate its ends, so that after discharge, reflex action will accelerate its movement to the receiver.



12. The combination with a printing apparatus including a device for producing impression sheets, its actuating means and a receiver; of a sheaf positioned at one end of said receiver and composed of a plurality of super-imposed flexible leaves bound at one end, means for mounting a portion of said sheaf at a predetermined angle with respect to the receiver, a feeding mechanism operating in synchronism with the actuating means and coacting with the leaves of the sheaf to successively effect their propulsion to the receiver, said feeding mechanism including a rotatable and a cam adapted to engage the leaves of said sheaf, said cam being compressible and susceptible of independent movement with respect to its mounting.

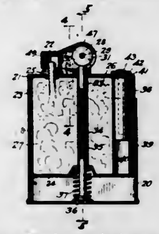
1,944,177

CIGAR LIGHTER

John Holtzman, New York, N. Y.

Application May 22, 1929. Serial No. 365,013

12 Claims. (Cl. 67—7.1)



7. In a lighter, a fuel container, spark-producing means carried above the upper part of the container including an abrading wheel and a wick, a pivoted cover for the wheel and wick, means operatively connecting the cover to the wheel, and a wind shield encompassing the container and movable from a position below the end of the wick into a position about the wick and connected to the cover simultaneously to uncap the wick and to rotate the wheel to light the wick, and to protect the lighted wick.

1,944,178

FERROUS ALLOY

Victor O. Homerberg, Belmont, Mass., assignor to The Nitromal Corporation, Albany, N. Y., a corporation of Delaware

No Drawing. Application May 10, 1929

Serial No. 362,135

4 Claims. (Cl. 148—31)

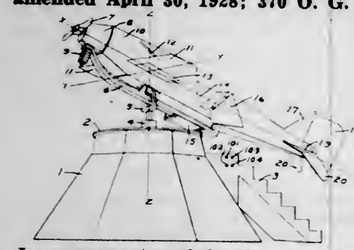
1. An article of manufacture composed of malleableized cast iron having nitride hardened

surface portions, and containing more than 0.15% and less than 5% of aluminum as an essential ingredient, and from 0.1% to 8% of an element selected from the group—boron, chromium, molybdenum, nickel, titanium, tungsten, vanadium and zirconium.

1,944,179
FERROUS ALLOY
Victor O. Homerberg, Belmont, Mass., assignor to The Nitromal Corporation, Albany, N. Y., a corporation of Delaware
No Drawing. Application May 10, 1929
Serial No. 362,136
2 Claims. (Cl. 148—31)

1. An article of manufacture composed of malleableized cast iron having nitride hardened surface portions and containing more than 0.15% and less than 5% of aluminum as an essential alloying ingredient.

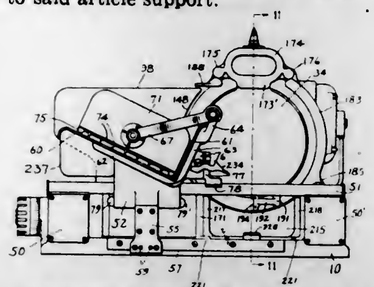
1,944,180
FLIGHT TRAINER
William E. Huffman, Dayton, Ohio
Application November 17, 1932
Serial No. 643,058
20 Claims. (Cl. 35—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an apparatus of the class described, comprising a seat for a person, a support for said seat including a movable portion pivotally attached to said seat and a fixed portion, power means carried by said movable portion and operable independently of said seat for effecting an air-stream and means carried by said seat and responsive to said air-stream for rotating said movable portion and attached seat about said fixed portion.

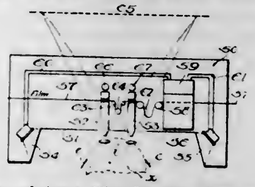
1,944,181
FOOD HANDLING APPARATUS
Herbert L. Johnston, Troy, Ohio, assignor to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application January 23, 1930. Serial No. 422,746
13 Claims. (Cl. 146—102)

10. In a slicing machine having a rotary knife, track means, a carriage mounted for movement on said track means across the face of said knife, an article support carried by said carriage, a pusher plate for said article support, means for slidably mounting said pusher plate for movement along said article support toward and away from said knife, and for pivotally mounting said pusher plate for swinging movement away from said article support, said pusher plate being free to swing away from said article support through a substantial angle about its pivotal mounting throughout a major portion of its range of slidable movement toward and away from said knife to enable an article to be placed on said article support beneath said pusher plate, said portion being the portion of said range which is nearer to the cutting plane of the knife, and means for definitely limiting the extent of said swinging movement within said portion of the range to prevent said pusher plate from passing beyond its upper dead center position with respect to its pivotal mounting so that said pusher plate returns by gravity to an operative position relative to said article support.



13. In a slicing machine having a base, a rotary knife mounted on said base, track means on said base, a carriage mounted for movement on said track means across the face of said knife, an article supporting plate on said carriage having a portion extending outwardly from the base beyond said track means, a pusher plate means slidably mounted on said carriage for movement in said article supporting plate toward and away from the cutting plane of said knife, and pivotally mounted on said carriage for swinging movement within the said carriage parallel to the cutting plane of the knife and throughout its normal operative range and for swinging movement within said article supporting plate and around to an inoperative position underneath said article supporting plate, means preventing said pivotal movement of the pusher plate means around to said inoperative position except when the pusher plate means is in the outer range of its slidable movement away from the cutting plane of said knife, so that said pusher plate means in the inoperative position is arranged outwardly beyond said track means, and means on said carriage for holding said pusher plate means in said inoperative position underneath the article supporting plate, the arrangement being such that said carriage can be moved back and forth in a normal manner on said track means while said pusher plate means is held in said inoperative position.

1,944,182
REPRODUCTION OF SPACIALLY COORDINATED SIGHT AND SOUND
W. Bartlett Jones, Chicago, Ill.
Application November 18, 1930
Serial No. 496,434
20 Claims. (Cl. 88—16.2)



11. Motion picture film having two versions of the same sounds recorded photographically thereon in a given synchronized relation with the picture record, said versions corresponding

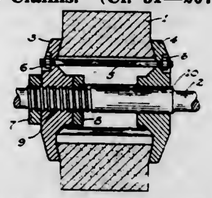
to the right-ear and left-ear versions of the same sounds as would appear to a human head positioned at the location of the camera producing the picture record.

16. Reproducing apparatus for artificial effects involving sight and sound comprising in combination, stereoscopic moving picture apparatus, picture records of left-eye and right-eye views therefor, sound reproducing apparatus, records of right-ear and left-ear versions of sound from the same source as the picture records and from the same pick-up location, and means to synchronize the reproduction of the picture and sound, the sound reproducing apparatus being adapted for reproduction and presentation to an auditor without change of phasing of said two versions of sound.

1,944,183
ALLOY
Louis W. Kempf, Lakewood, and Ivan R. Dawson, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application June 2, 1932
Serial No. 615,028
2 Claims. (Cl. 148—21.1)

2. The method of forming an alloy consisting substantially of aluminum and silicon containing from about 10 to about 80 per cent of aluminum and from about 20 to about 90 per cent of silicon by comminuting and thoroughly mixing the alloying constituents, subjecting the comminuted mixture to pressure to form the same into a dense, homogeneous mass, and heat-treating the compressed product at a temperature above about 300° centigrade and below the temperature at which the most fusible constituent of the alloy will fuse.

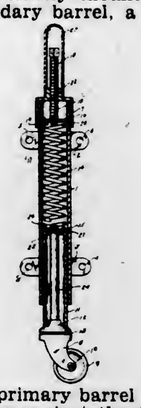
1,944,184
MANUFACTURE OF ABRASIVE ARTICLES
Henry P. Kirchner, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Pennsylvania
Application November 4, 1931. Serial No. 573,004
8 Claims. (Cl. 51—207)



1. As an article of manufacture, an abrasive wheel adapted for peripheral grinding wherein the power is transmitted from opposed driving flanges which are pressed axially against the abrasive wheel by means of bolts and nuts threaded on said bolts, one of said flanges being slidable on the driving shaft and the bolts having approximately the same coefficient of expansion as the abrasive whereby stresses due to thermal change are prevented from accumulating.

1,944,185
TRUNNION ADJUSTABLE SUPPORT
Edward J. Langer, Portland, Oreg.
Application February 18, 1932. Serial No. 593,825
3 Claims. (Cl. 16—44)

1. In a device of the class described the combination of a primary barrel adapted to be secured to a door at the bottom thereof, a secondary barrel rotatably and slidably mounted within the primary barrel and having its lowermost end extending below the bottom end of the primary barrel, said secondary barrel having a trunnion wheel associated therewith by means of a supporting stem adjustably mounted through the top of said secondary barrel, a coil spring dis-



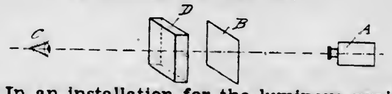
posed within the primary barrel and having one of its ends bearing against the top of said secondary barrel and its opposite end bearing against a disc slidably mounted within the primary barrel and carried by an adjusting screw threadably mounted through a closure cap adapted to the top of said primary barrel, and a dust cap threadably mounted to the closure cap for housing the threaded stem.

1,944,186
MULTIPLE TUBULAR LEAD-IN
James F. Lee, Stockton, Calif.
Application November 23, 1929
Serial No. 409,242
4 Claims. (Cl. 250—27.5)



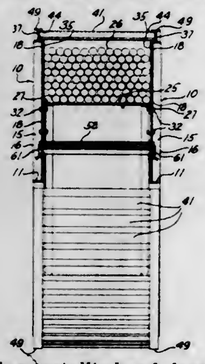
1. A multiple lead-in seal structure comprising a glass bead and a plurality of metal tubes extending through and sealed into said bead, each of said tubes having at least one flattened side, a flattened side of each tube being adjacent and parallel to a flattened side of another of said tubes, adjacent tubes being separated in each instance by a glass partition which is an integral part of said bead.

1,944,187
LUMINOUS PROJECTION
Antoine Marsat, Verrieres Le Buisson, France, assignor to George M. Cressaty
Application November 21, 1931
Serial No. 576,565
9 Claims. (Cl. 88—24)



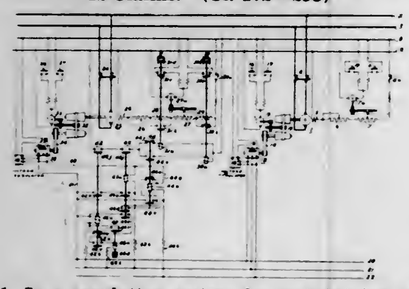
1. In an installation for the luminous projection of images: a projection apparatus, a screen placed between the projection apparatus and the eye of the spectator, a refracting body of geometrical prismatic form, and of at least substantially 4 centimeters in thickness, said refracting body being separate from the screen, and interposed in the path of the light rays which travel from the screen to the eye of the spectator.

1,944,188
REEL FOR TRANSPORTING CABLE
Lee Roy McGuire, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 27, 1928
Serial No. 308,661
16 Claims. (Cl. 206—59)



1. In a reel, a metallic head, lags for enclosing the reel, and a unitary annular metallic channel member welded to the head for securing the lags to the reel.

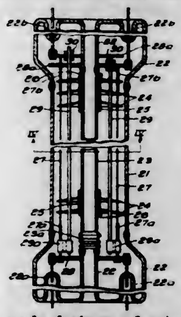
1,944,189
REGULATOR SYSTEM
Terryl B. Montgomery, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application February 1, 1932. Serial No. 590,085
12 Claims. (Cl. 172—293)



1. In a regulating system for maintaining predetermined speed ratios among a plurality of electric motors with respect to a master motor, the combination of a field forcing regulator and a time delayed follow-up regulator for each of said electric motors, a plurality of relays for controlling each of said regulators, and means for intermittently actuating said relays upon occurrence of a departure in speed of the respective motors from said predetermined speed ratio.

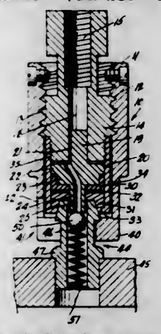
1,944,190
VACUUM TUBE
Ilia E. Mouromtseff, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application March 6, 1929. Serial No. 344,772
Renewed April 14, 1933
10 Claims. (Cl. 250—27.5)

1. An electron-discharge tube comprising a cathode, an anode and a control electrode, said control electrode having portions positioned on a side of the cathode remote from said anode, rods positioned between said cathode and said



portions, said rods being adapted to be maintained at substantially the same potential as said cathode.

1,944,191
LUBRICATING DEVICE
Morris Newmark and Elias Moss, New York, N. Y.
Application July 29, 1932. Serial No. 625,796
4 Claims. (Cl. 285—143)

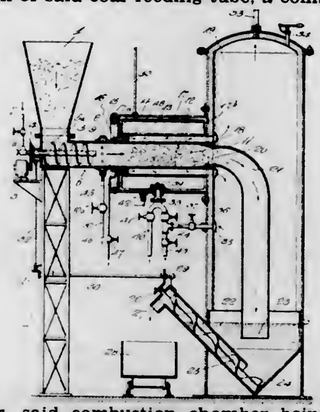


1. A nozzle adapted to be secured to a pressure lubricating device and lubricant receptacle comprising a barrel having a cutout for engagement with the said receptacle, a plunger operatively mounted in the said barrel and having a bore in communication at one end with the pressure device, a perforated pilot operatively mounted at the opposite end of the said bore, a reduced shoulder on the said pilot, a teat projecting from the said shoulder, a cupped non-metallic washer on the said teat encircling the said shoulder, a second like washer on the teat disposed in the opposite direction, a spacing washer between the two first mentioned washers and a housing to maintain the pilot and washers in place.

1,944,192
APPARATUS FOR PRODUCING COKE AND GAS
William A. Riddell, Frederick, Md., assignor to The Frederick Iron & Steel Company, Frederick, Md., a corporation of Maryland
Application December 26, 1930
Serial No. 504,945
6 Claims. (Cl. 202—117)

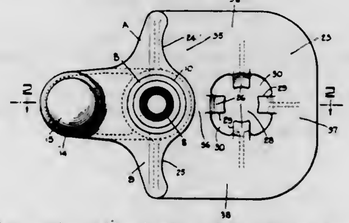
3. An apparatus for manufacturing coke and gas comprising a coal hopper, a gas accumulator, a coal feeding and distilling tube communicatively connecting said coal hopper with said gas accumulator, a conveyor for advancing coal from said coal hopper through said coal feeding tube,

a discharge spout connected with the discharge end of said coal feeding tube and terminating in a quenching tank within said gas accumulator, a gas collecting tube concentrically surrounding a portion of said coal feeding tube, a combustion



chamber, said combustion chamber being concentrically disposed about said gas collecting tube, heating means disposed within said combustion chamber, and a gas conduit connecting the gas accumulator and heating means.

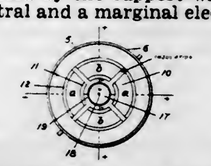
1,944,193
AUTOMATIC TRAIN PIPE CONNECTER
Joseph Robinson, New York, N. Y., assignor of one-half to Roy M. Wolvin, Montreal, Quebec, Canada
Application June 2, 1930, Serial No. 458,983
Renewed April 4, 1933
7 Claims. (Cl. 285—58)



1. An automatic train pipe connecter head comprising in combination, pin and funnel gathering means of shallow construction, the pin member being short and blunt and having a wide aligning surface on its front face, the funnel being provided with a relatively large opening through its apex into which projects lugs having on their inner faces a seat to receive said pin member of an opposing head, there being formed between said lugs openings of substantial size to permit the exit of foreign substances from said funnel when opposing heads couple up in service.

1,944,194
RADIANT ENERGY DETECTOR
William Sackville, Berkeley, Calif.
Application November 7, 1929. Serial No. 405,520
2 Claims. (Cl. 201—63)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a radiant energy detector, a container, an insulated support in the container, a plurality of oppositely paired spaced segments of photosensitive material annularly arranged on the support, electrodes on the inner and outer marginal portions of the segments, a body of photosensitive material carried by the support within the segments, a central and a marginal electrode on said



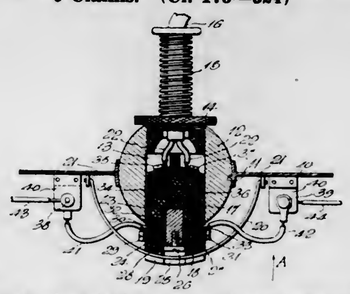
body, the intermediately positioned marginal electrodes being of the same sign, and lead wires for the electrodes.

1,944,195
LOCKING SEAL FOR VEHICLE LICENSE PLATES
William S. Salisbury, San Francisco, Calif.
Application February 15, 1933. Serial No. 656,829
6 Claims. (Cl. 40—125)



4. A license plate holder including, in combination, a bracket, a license plate, bolts to detachably hold the plate onto the bracket; a bar, having outstanding shoulders, clamped onto the outer face of the plate by the bolts; and a member having its opposite ends attached to the outstanding shoulders on the bar and covering the bolts to prevent removal thereof unless said member be broken, one of said ends having permanent means thereon to engage one of the bar shoulders and the other end having detachable means thereon to engage the other bar shoulder.

1,944,196
BALL JOINT ELECTRICAL CONNECTION
Joseph Battista Saraceno, Bloomfield, Conn.
Application June 27, 1932. Serial No. 619,537
6 Claims. (Cl. 173—324)

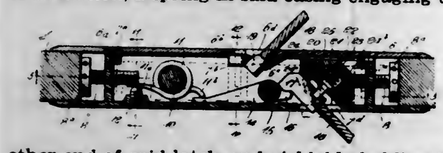


6. In an electrical connection, the combination of a support having a ball socket, a ball retained by said socket, a longitudinally curved bail adjacent the ball, means for pivotally mounting said bail in substantially concentric relation with said ball, a shoe carried by said bail and having a guide portion engaging and slidable lengthwise of said bail, and co-acting current conducting elements carried by said ball and said shoe.

1,944,197
PRESSURE RELEASE FOR REVOLVING DOORS
John W. Shields, Evansville, Ind., assignor to International Steel Company, Evansville, Ind., a corporation of Indiana
Application January 27, 1932. Serial No. 589,266
3 Claims. (Cl. 20—18)

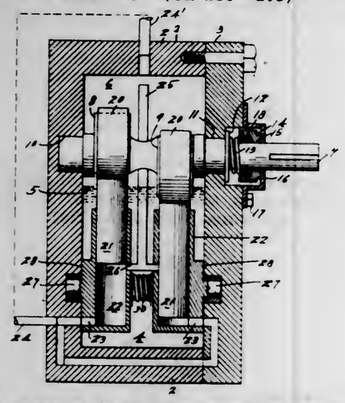
1. Pressure release hardware for revolving doors comprising a casing adapted to be set into a door and secured therein with side walls exposed at op-

posite sides of the door, a latch extending longitudinally in said casing and pivotally mounted intermediate its ends, a cable extending into said casing through a side wall thereof and having a locking head at its inner end engaged by one end of said latch, a spring in said casing engaging the



other end of said latch and yieldably holding the latch in position to secure the head of the cable, and a screw threaded through a side wall of the casing with its inner end engaging the spring, said screw being rotatable from its outer end for selectively adjusting tension of the spring.

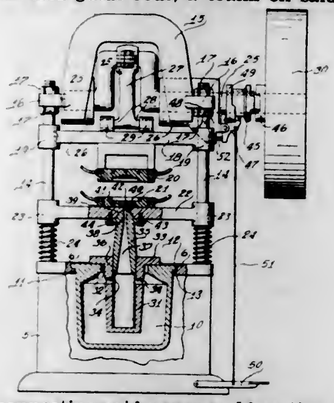
1,944,198
OSCILLATING FLUID COMPRESSOR
Frank A. Smith, Los Angeles, Calif., assignor to Smith Manufacturing Company, a corporation of Washington
Application April 18, 1932. Serial No. 605,880
3 Claims. (Cl. 230—175)



1. A gaseous fluid compressor comprising a plurality of oscillatory compression cylinders, compression plungers operative therein, said cylinders having lateral bearings operating on respective supports and having discharge ports opening to said bearings, and means interposed between and for yieldingly thrusting the cylinders against the bearings and providing for automatic relief of pressure from the ports.

1,944,199
DIE CASTING MACHINE
Ludwig J. Tischler, Detroit, Mich.
Application September 10, 1931
Serial No. 562,085
2 Claims. (Cl. 22—68)

1. In a die casting machine, a base, a reservoir suspended therein and removable through the top thereof, an auxiliary reservoir suspended in and removable through the top of the first named reservoir, means of communication between said reservoirs, vertical guide rods on said base, a yoke uniting the upper ends of said vertical guide rods, a mold bed slidable on said guide rods, springs interposed between said base and said mold bed and normally holding said bed spaced from said base, a crank shaft rotatably mounted in said yoke, power means for rotating said shaft a single revolution at one operation, an upper mold section slidably mounted above said bed plate on said guide rods, a crank on said shaft,



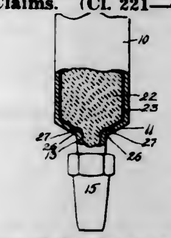
a rod connecting said upper mold section to said crank, and a hollow plunger carried by said mold bed and having a sliding fit with said auxiliary reservoir.

1,944,200
PROCESS OF MAKING GRAINING ROLLS
Guido von Webern, Dayton, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich., a corporation of Michigan
Application April 19, 1930. Serial No. 445,576
10 Claims. (Cl. 95—5)



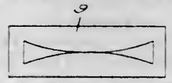
1. A method of forming a continuous pattern printing roll for printing natural grain subjects having irregular non-repeating patterns, comprising making photographic copy of portions of the same or similar natural grain subjects, and end matching the copy by laying different originally non-adjacent portions thereof over each other, and outlining the uppermost overlying portion to cause the grain lines of both said portions to substantially coincide at said outline, and thereafter using the copy to produce an etched surface on a roll.

1,944,201
GREASE GUN
Edward R. Wharton, Medford, Mass.
Application June 4, 1932. Serial No. 615,366
2 Claims. (Cl. 221—47.3)



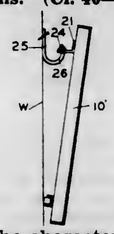
1. A grease gun of the character described comprising a cylinder provided at its delivery end with an end wall having an outlet port adjacent to its middle, the inner side of said end wall being formed as an annular conical surface surrounding and sloping toward said outlet and said cylinder being adapted to receive within it an elongate cartridge comprising a body of grease and a collapsible envelope therefor of thin flexible sheet material; a piston head movably mounted within said cylinder, and means connected with said piston head and extending to the exterior of said cylinder that is operable to force said piston head toward said outlet port so that as said piston head reaches the limit of its grease ejecting movement it cooperates with said annular conical surface to radially contract the collapsed wrapper of said cartridge, the said end wall being made with a plurality of small holes extending from said conical inner surface to the exterior of said wall and into the inner ends of which portions of said wrapper are bent by the pressure of the grease against said wrapper thereby to hold the latter against slipping on said conical surface toward said outlet port.

1,944,202
APPARATUS FOR REPRODUCING SOUND FROM RECORDS
William Ewart Williams, London, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a corporation of New York
Application September 18, 1930, Serial No. 482,717, and in Great Britain October 4, 1929
4 Claims. (Cl. 179—100.31)



4. In a device for the purpose described, a plate having an aperture therethrough, said aperture being in the form of a double triangle, and the edges of said triangles between their bases and apexes being concave.

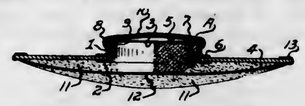
1,944,203
DEVICE FOR PICTURE FRAMES AND THE LIKE
Carl H. O. Wittig, Irondequoit, N. Y.
Application March 18, 1933. Serial No. 661,535
4 Claims. (Cl. 40—145.2)



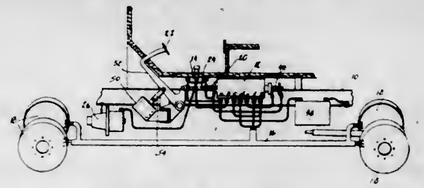
1. A frame of the character described having in combination means for swingably supporting said frame on a substantially vertical wall, a rotatable member mounted on the rear of said frame in position to contact with the wall.

1,944,204
COMBINATION POWDER CONTAINER AND PUFF
Waldemar W. Wutzke and John J. Mitchell, Detroit, Mich.; said Mitchell assignor to said Wutzke
Application December 7, 1932. Serial No. 646,112
4 Claims. (Cl. 132—78.5)

1. In a device of the character described, a face powder container, the said container having a sleeve with a peripheral flange formed thereon, a fabricated disc for the device, also a cup shaped member, said member having a similar peripheral flange formed thereon and adapted to telescopically engage the said sleeve with the aforesaid disc disposed intermediate both of the said flanges, for the express purpose as set forth.

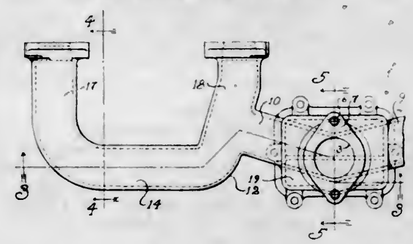


1,944,205
CONTROL MECHANISM
Vincent G. Apple, Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application January 23, 1930. Serial No. 422,750
2 Claims. (Cl. 188—162)



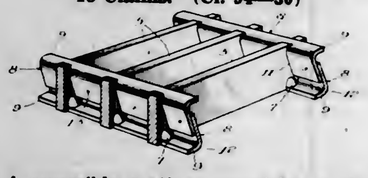
1. Vehicle control mechanism comprising a brake, a brake pedal, a starter motor, starter pedal, a reversible electric motor adapted to actuate the brake, means for closing a circuit through the brake motor upon depression of the brake pedal, means associated with the starter pedal and cooperable therewith for automatically opening said circuit and closing one through the starting motor upon maximum depression of the starter pedal, said means being operable upon partial depression of the starter pedal to lock the brakes in any position.

1,944,206
MANIFOLD
Frederick O. Ball and Thomas M. Ball, Detroit, Mich., assignors to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application April 22, 1931. Serial No. 532,032
13 Claims. (Cl. 123—52)



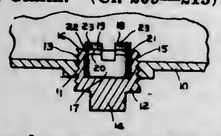
1. A manifold including a fuel mixture inlet tube, a pair of substantially straight branch tubes communicating with said inlet tube and leading upwardly at an inclination to a horizontal plane from the discharge end thereof, and a pair of conduits, each having an intermediate portion substantially perpendicular to and communicating with one branch tube respectively, and each having a pair of outlets for feeding fuel mixture to a pair of cylinders respectively.

1,944,207
GRATING
Albert J. Bates, Chicago, Ill., and Walter A. Bates, Gary, Ind., assignors, by direct and mesne assignments, to Beulah H. Bates, Gary, Ind.
Application January 17, 1931. Serial No. 509,300
15 Claims. (Cl. 94—30)



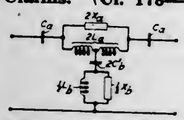
1. A reversible grating comprising a plurality of main bars and tension cross bars, said main bars being arranged in spaced relation and said cross bars being slotted between their outer edges to receive the main bars, and means securing said bars together, said bars being of substantially equal depth and having their edges on each side disposed in substantially the same plane.

1,944,208
MAGNETIC PLUG
Albert E. Bock, Omaha, Nebr., assignor to Lisle Corporation, Clarinda, Iowa, a corporation of Iowa
Application February 20, 1932. Serial No. 594,251
1 Claim. (Cl. 209—215)



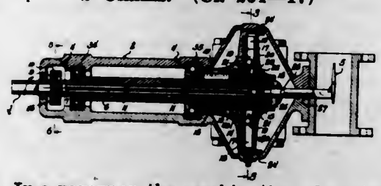
A drain plug for power transmission housings and the like having a threaded drain opening therein, comprising a non-magnetic shell exteriorly threaded for engagement in a transmission housing drain opening and having an integral nut on its outer end for turning the shell to remove and position the same, said shell having a recess in its inner end opposite said nut providing an annular rim on the shell adapted to project through and beyond the opening in the transmission housing, a magnetic core fitting in the recess in the shell, said core having a bifurcated projecting end extending beyond the shell and providing opposite poles for the core and having an annular exterior groove in register with the projecting end of the shell, said rim having an inwardly offset portion projecting into said groove for interlocking the core in the shell.

1,944,209
TRANSMISSION NETWORK
Hendrik W. Bode, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 6, 1932. Serial No. 621,008
6 Claims. (Cl. 178—44)



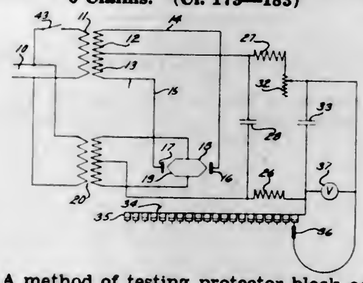
1. A wave transmission network comprising a bridged-T network and a pair of equal reactances connected in series therewith, one on each side thereof, the series arms of said bridged-T being constituted by a pair of equal finite inductances inductively coupled, and the shunt arm and the bridging arm of said bridged-T being lumped impedances of different characteristics.

1,944,210
GOVERNOR
William Spencer Bowen, Westfield, N. J.
Application March 17, 1931. Serial No. 523,262
2 Claims. (Cl. 264—17)



1. In a governor, the combination of a rotatable shaft, an oscillatable member having threaded engagement with said shaft and rotatable thereon, a governor spring consisting of torque transmitting resilient means mounted to extend along the axis of said shaft for transmitting torque from said shaft to said oscillatable member, and means including centrifugal members for effecting an axial movement of said oscillatable member relative to said shaft.

1,944,211
METHOD OF AND MEANS FOR TESTING THE ELECTRICAL CHARACTERISTICS OF MATERIALS
George H. Brodie, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 13, 1931. Serial No. 508,432
6 Claims. (Cl. 175—183)

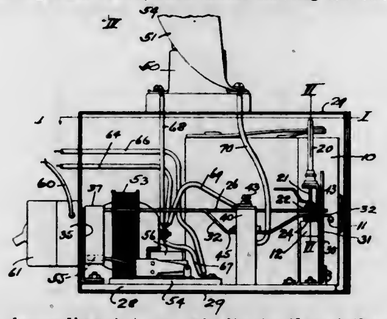


1. A method of testing protector block assemblies which consists in charging a large electrostatic capacity, simultaneously therewith subjecting the protector block assembly to the applied voltage, and indicating the voltage at which the protector block assembly is incapable of withstanding the applied voltage.

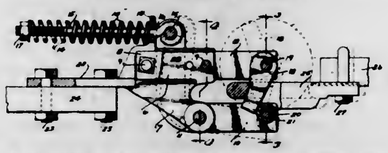
1,944,212
MEANS FOR PHOTOGRAPHING BURGLARS OR OTHER INTRUDERS
George W. Brown, Memphis, Tenn.
Application July 11, 1931. Serial No. 550,113
1 Claim. (Cl. 177—314)

In a device for photographing an intruder, a camera having a shutter, a flash light, a buzzer including a vibratable striker, a source of electric current and open circuits therefrom to said buzzer and said light, a switch in said light circuit, a remote switch in said buzzer circuit, means operable by approach of said intruder to a position in front of said camera, cooperating

with said switch to close same, whereby to complete said buzzer circuit and actuate said buzzer; a timing mechanism spaced from said buzzer, said mechanism having a projecting trigger, a trip lever extending between said timing mechanism and said buzzer and pivotally mounted intermediate its length, a link connecting said lever and said trigger, a spring acting on said lever to swing same and trip said trigger, a latch restraining said lever, said latch having an extension depending into proximity to the striker of said buzzer, said extension and latch being displaceable by action of said buzzer striker whereby actuation of said buzzer will trip said latch, and start said timing mechanism, means actuated by said timing mechanism for opening said camera shutter, and holding same open, said means closing said flash light switch to complete said flash light circuit and flash said light, and subsequently releasing said camera shutter to allow same to close.



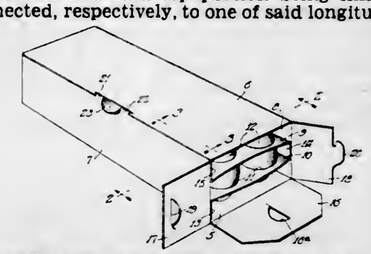
1,944,213
VEHICLE COUPLER
Albert Brune, Albert Lea, and George H. Sterling, Minneapolis, Minn.
Application April 30, 1932. Serial No. 608,423
2 Claims. (Cl. 280—33.16)



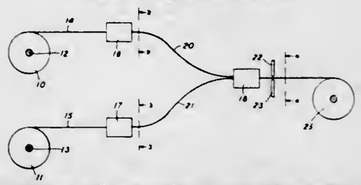
1. A coupler comprising a coupler head having vertically spaced arms, one of which is movable in respect to the other, a lock abutment on the lower arm, a lock dog pivoted at one end to and gravity-suspended from the upper arm and normally engageable with and restrained by said lock abutment, but capable, when released, of complete rotation in a vertical plane from locked position through releasing position and back to locked position against said abutment where it will be gravity held in operative position, and a yielding tension device normally holding said abutment in lock-restraining position.

1,944,214
CARTON
Andrew E. Bueschel, Chicago, Ill.
Application March 11, 1932. Serial No. 598,139
12 Claims. (Cl. 229—29)

1. A carton comprising a bottom portion, top portion, and longitudinal side walls, and a plurality of racks positioned in the carton and spaced from the bottom and top portions thereof, one of said racks and said top portion being hingedly connected, respectively, to one of said longitudinal side walls and operatively related to each other in a manner to move together.

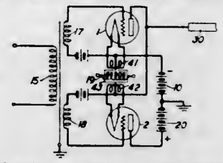


1,944,215
METHOD OF MAKING BIMETALLIC STOCK
George W. Burr, Long Island City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 23, 1930
Serial No. 483,809
1 Claim. (Cl. 29—188)



The process of manufacturing bimetallic contact stock which comprises forming by a continuous drawing process a ribbon of contact metal to give it a substantially truncated triangular section having downwardly projecting skirt portions, forming by a continuous drawing process a ribbon of base metal to give it a substantially truncated section having beveled upper edges, combining in superposed relation said separately formed ribbons with the beveled edges of the latter skirted by the skirt portions of the former, drawing by a continuous process the combined ribbons to form a composite ribbon having a truncated triangular section and welding the composite ribbon as it emerges from the last drawing process.

1,944,216
SIGNALING SYSTEM
Everett T. Burton, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 29, 1931. Serial No. 540,825
5 Claims. (Cl. 179—171)

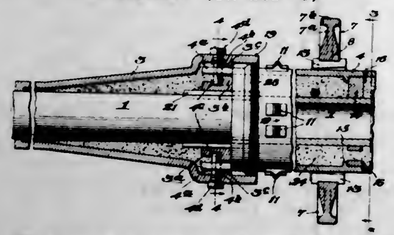


1. A thermionic repeater comprising a plurality of space discharge devices having their plate circuit connected in series with a battery, a control electrode for each device connected to an input circuit, and an output circuit for the repeater, characterized in this, that the output is supplied from two points in the series circuit which are at the same potential when no current is applied to said control electrodes.

1,944,217
FURNACE CONVEYER

Oliver K. Carpenter, New Cumberland, W. Va., William Ewart Griffith and Paul S. Menough, Pittsburgh, Pa., assignors to The Duraloy Company, Pittsburgh, Pa., a corporation of Delaware

Application February 23, 1929. Serial No. 342,164
11 Claims. (Cl. 263—6)

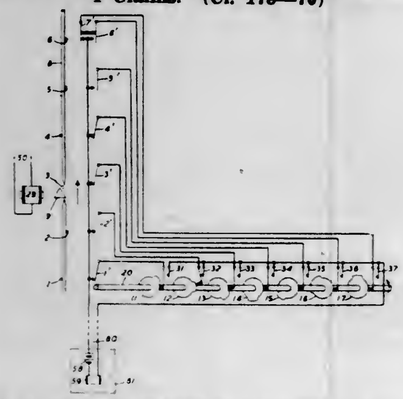


1. In a furnace conveyer, a plurality of shafts, a cylindrical sheath on each shaft, a plurality of carrying disks on each sheath, said sheath having a plurality of spaced pairs of spaced V-shaped lugs on its exterior, corresponding spaced pairs of spaced lugs on the disks having V-shaped openings to receive the lugs of the sheaths and to register therewith, and keys in the spaces between the pairs of lugs of the disks and of the sheath to hold the disks against rotary movement.

1,944,218
TELEGRAPH REPEATER

Joseph J. Catógge, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 10, 1932. Serial No. 591,935
4 Claims. (Cl. 178—70)

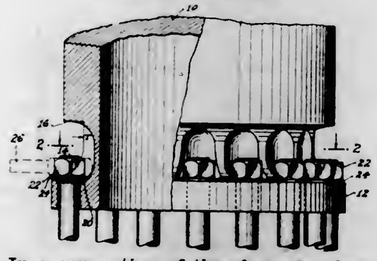


1. A regenerative start-stop telegraph repeater comprising a receiving electromagnet responsive to telegraph signal impulses, an armature cooperating therewith adapted to engage and actuate successively a series of impulse storing devices in accordance with the received signal impulses, a rotatable disc in engageable relationship with said impulse storing devices whereby said storing devices are locked on either side of said disk in the position in which they are set by said magnet until they are reset during the next series of impulses, a series of rotatable cams electrically connected to said storing devices whereby the received impulses are reconstructed and retransmitted, means for stopping said disc and cams after the last signal impulse has been retransmitted, and means to start said disc and cams rotating when an impulse of opposite character from the last impulse of the last signal is received.

1,944,219
FLANGE CONNECTION

Roland Chilton, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York

Application January 25, 1932. Serial No. 588,679
8 Claim. (285—139)

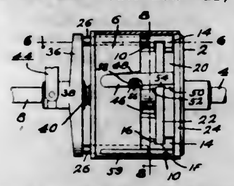


1. In a connection of the character described, a flange springing from a wall, said flange having a bolt hole and a spherical nut seat concentric with said hole, said wall having an arcuate pocket formed therein as a continuation of said nut seat, spherical seating means adapted for fitting engagement in said seat, and bolts adapted to engage within said hole and within said seating means.

1,944,220
FREEWHEELING TRANSMISSION MECHANISM

Samuel M. Coffman, Kansas City, Mo.

Application April 20, 1931. Serial No. 531,330
8 Claims. (Cl. 192—48)



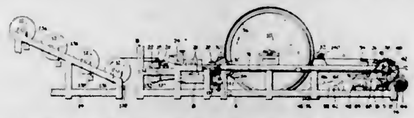
1. A power transmission mechanism comprising a rotary driving member, a rotary driven member, a clutch element through which said driving member transmits motion to the driven member and permits over-run of the latter member in one direction, spring means for holding said clutch element in active position, a second clutch element for coacting with the first-mentioned clutch element in locking the driving and driven members together so they will travel in unison at all speeds, manually controlled mechanism including an arm slidably mounted in one of the rotary members for holding said second clutch element in inactive position, and spring means for adjusting said second clutch element to active position.

1,944,221
SLASHER

Kenneth B. Cook, Providence, R. I., assignor, by mesne assignments, to Manville Jenckes Corporation, a corporation of Delaware

Application April 5, 1933. Serial No. 664,595
4 Claims. (Cl. 28—28)

1. In a slasher, the combination of a beam onto which the threads are wound, a take-up feed roll, a drying drum, a sizing device, a creel, a feed roll interposed between the creel and said sizing device to engage a dry portion of the threads for positively drawing the threads from the creel, and means for positively driving said drum and

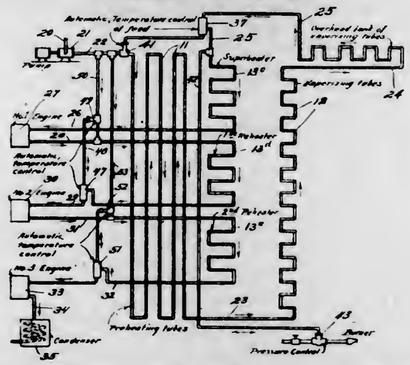


said feed roll at a predetermined differential rate to secure a corresponding stretch in the threads moistened by said sizing device substantially between said sizing device and the point of contact of said threads with the drying drum.

1,944,222
SYSTEM OF GENERATING POWER AND CONTROL THEREFOR

Walter M. Cross, Kansas City, Mo., assignor to Babcock & Wilcox Co., New York, N. Y., a corporation of New Jersey

Application March 12, 1925, Serial No. 14,953
Renewed September 9, 1932
2 Claims. (Cl. 60—65)



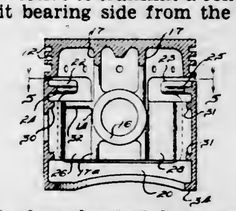
1. The combination with a high pressure vapor pressure generator and furnace, of a liquid supply for the generator and means supplying elements of combustion to the furnace, a vapor superheater, successive stages of vapor pressure expansion, a vapor reheater between each stage, means controlled by the temperature of the vapor entering the superheater for regulating the amount of liquid delivered to the generator, pressure operated means controlling the elements of combustion, and vapor cooling means associated with the entrance to each reheater and including a temperature responsive device associated with the entrance to the expansion stage served thereby to deliver vapor of predetermined heat value to each expansion stage.

1,944,223
PISTON

Ray E. Day, Detroit, Mich.

Application July 8, 1933. Serial No. 679,513
10 Claims. (Cl. 309—11)

1. A piston comprising a head, wrist pin bosses, a skirt separated from the head and vertically split at one thrust bearing side, inwardly diverging struts extending from each thrust bearing side to the bosses, the struts at the split side being stiffer than the struts at the opposite side, and a truss forming ring joining said thrust bearing sides and effective to transmit a contracting force to the split bearing side from the opposite side



as a result of mechanical forces exerted by the bosses upon outward movement thereof.

1,944,224
STRIPING DEVICE

Delbert J. Dickerson, South Gate, Calif.

Application March 6, 1933. Serial No. 659,681
3 Claims. (Cl. 91—62.6)

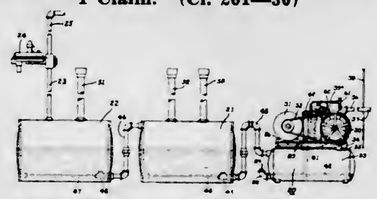


1. In a striper for painting a thin stripe on any surface, the combination of a finger encircling body member having an extended rod secured thereto by which the device is held in the rest of the hand; an adjustable extension bar pivotally secured to said body; a distributing disk secured in a slot in the end of said base; a paint chamber carried on the other end of said base; a valve to be opened by thumb pressure against said chamber; and a conduit through said base to carry the paint to the disk.

1,944,225
CARBURETOR

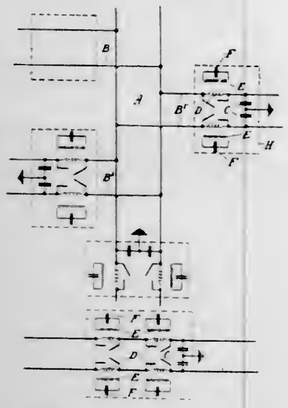
Ernest Dickey, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a corporation of Delaware

Application July 31, 1929. Serial No. 382,446
1 Claim. (Cl. 261—30)



A carburetor comprising air compressing means for automatically maintaining air compressed within predetermined pressure limits, a gasoline charge holding device with means for contacting air with said charge connected to said air compressing means, a second charge holding device for holding a different charge of gasoline with means for contacting air with said last named charge, said second charge holding device having air connections with said first named charge holding device, a carbureted air discharge pipe from said second charge holding device, said air compressing means including a compressor with moving parts and adapted to be intermittently operated and means for applying oil to said parts only when said compressor is operating.

1,944,226
WIRED RADIO COMMUNICATION SYSTEM
William Dubilier, New Rochelle, N. Y., assignor to Radio Patents Corporation, New York, N. Y., a corporation of New York
Application May 11, 1923, Serial No. 638,167
Renewed September 30, 1933
6 Claims. (Cl. 179—2.5)



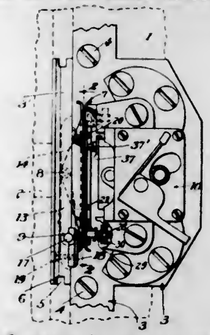
5. In a wired wireless composite signalling system; a conductor carrying power currents and high frequency currents superimposed thereon, means offering a negligible impedance to said power currents and a high impedance to said signalling currents, one end of said means being connected to said conductor, a load connected to the other end of said means operated by the power supply, a receiver for the reception of high frequency signals also connected to the other end of said means, said means normally constituting the sole conductor path from said line to said receiver, and means for disabling said first means to provide electrical paths for said signalling currents to operate said receiver.

1,944,227
GALVANIZED MALLEABLE IRON AND METHOD OF PRODUCING SAME
Votaw S. Durbin, St. Louis, Mo.
No Drawing. Application September 11, 1931
Serial No. 562,424
4 Claims. (Cl. 91—70.2)

1. The method of galvanizing, without causing embrittlement, castings having an iron base and previously annealed to convert them into malleable iron, which consists in dipping the castings into molten zinc, cooling the same and then reheating the castings to a temperature of approximately 1200° F.

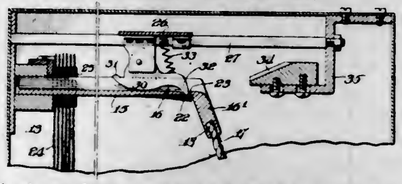
1,944,228
CAMERA SHUTTLE
Harry K. Fairall, Hollywood, Calif., assignor, by mesne assignments, to Harriscolor Films, Inc., Jersey City, N. J., a corporation of New Jersey
Application February 25, 1928, Serial No. 256,893
Renewed July 3, 1933
5 Claims. (Cl. 88—17)

1. In a camera shuttle, a register leaf adapted to simultaneously receive two strips of film; means resiliently mounted on said register leaf adapted to force and hold both strips of film in close contact one with the other, a stationary support; and pins fixed to said support to insure correct focus of both films before the exposing



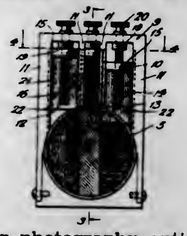
aperture, and means to operate said register leaf to advance the film.

1,944,229
VENDING MACHINE
John Fritsche, Merion, and Joseph C. Hadik, Philadelphia, Pa.; said Hadik assignor to said Fritsche
Application February 20, 1929. Serial No. 341,322
2 Claims. (Cl. 312—37)



1. A vending machine adapted to vend articles provided with grommets, comprising a casing having an article receiving compartment and a vending opening, an article retainer comprising a bar having a detent and having its forward end downwardly deflected, a reciprocatory article removing member having a hook at one end to engage the grommet of an article on said retainer, and a detent at its opposite end, a spring to move said detent towards said retainer, means to actuate said member to effect the release of an article from its hook, and a spring carried by said retainer and over which said grommet passes and facilitating the removal of the grommet from said hook.

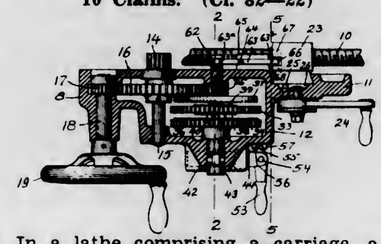
1,944,230
COLOR FILTER
Carl Louis Gregory, New Rochelle, N. Y., assignor to Kislyn Corporation, Englewood, N. J., a corporation of Delaware
Application April 4, 1931. Serial No. 527,681
2 Claims. (Cl. 95—81.5)



1. In a color photography optical apparatus, a color filter screen having a plurality of zones of different colors, a photographic lens system so

associated with said screen that light may pass through both the screen and the system to a film, means for adjusting the relative color values of said zones, said means comprising a frame disposed adjacent said screen, means for holding said frame in fixed position relative to said lens system, a diaphragm formed in sections, with each section movable over one of said zones, guides on said frame in which said sections are slidably mounted, and an actuating device for each section adapted to move that section over one of said zones, whereby the relation between the areas of said zones may be adjusted to compensate for said unequal sensitivities without removing the screen.

1,944,231
LATHE
William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application June 15, 1932. Serial No. 617,381
10 Claims. (Cl. 82—22)



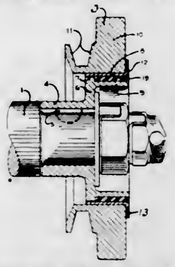
1. In a lathe comprising a carriage, a lead screw, an element shiftable on the carriage to connect or disconnect the lead screw and carriage, feed-rod-connecting, carriage-feeding and cross-feeding mechanisms on said carriage, three members coaxially and severally rotatable on said carriage with clutching means on their adjacent sides, the middle member being connected to the feed-rod-connecting mechanism and the outer two members being connected, respectively, to the other two mechanisms and being held in axially spaced relation as a unit distinct from the middle member as a second unit, and one of said units being axially shiftable to selectively clutch together either outer member and the middle member, and means shifted with said shiftable unit, preventing shifting of said element to connect the lead screw and carriage except when said shiftable unit is in its mid position, and preventing shifting of said shiftable unit from said mid-position when said element is in lead-screw-connecting position.

1,944,232
SASH CONSTRUCTION
William S. Hamm, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois
Application May 11, 1932. Serial No. 610,646
7 Claims. (Cl. 189—72)



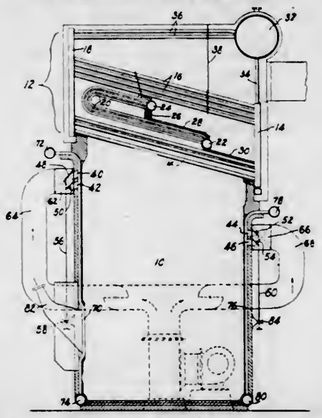
1. In a sash unit of the character described, a rectangular frame, a plurality of panels slidably mounted in the frame for horizontal movement past each other into either lapped or extended positions, resiliently yieldable non-metallic strips secured about the inner periphery of the frame, and sliding connections between the upper and lower strips and the upper and lower edges respectively of the panels.

1,944,233
VIBRATION DAMPER
William E. Hann, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application June 27, 1929. Serial No. 374,023
12 Claims. (Cl. 74—6)



12. In a vibration damper of the class described, a rotatable member, a sleeve member concentrically journaled on said rotatable member, a rubber member vulcanized to said members for limiting relative rotation therebetween, and an inertia member secured to said sleeve member.

1,944,234
SUPERHEATER BOILER AND METHOD OF OPERATING THE SAME
Ralph M. Hardgrove, Bethlehem, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey
Application November 4, 1930. Serial No. 493,260
2 Claims. (Cl. 122—478)



1. In a boiler having a furnace, means for burning fuel in suspension in said furnace, a steam generating section in the path of the heating gases leaving said furnace, and a superheater associated with said steam generating section and in an initial portion of the flow path of the heating gases leaving said furnace, the method of protecting the superheater during starting-up periods which comprises introducing and intimately mixing a quantity of low temperature air with said heating gases subsequent to a point

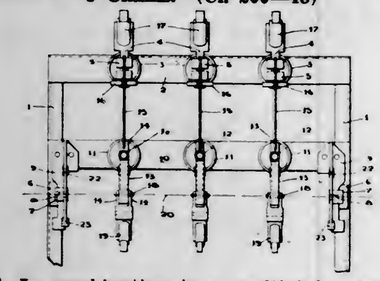
where the fuel combustion has been substantially completed and before said heating gases contact with the superheater.

1,944,235

MULTIPLE POLE SWITCH

Lester C. Hart, Cleveland, Ohio, assignor to Hi-Voltage Equipment Company, a corporation of Pennsylvania

Application September 6, 1933. Serial No. 688,312
5 Claims. (Cl. 200—48)



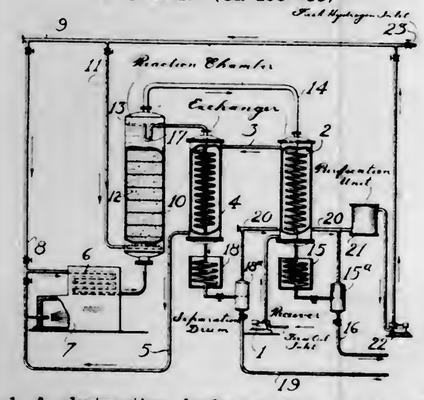
1. In combination in a multi-pole switch, a fixed frame, a series of insulators secured to the frame each provided at its outer end with contact means and a terminal, a movable frame mounted for swinging movement on the fixed frame and provided with a series of insulators, a metal block carried by the outer end of each of said last insulators having an arm projecting therefrom, a terminal pivoted to each arm with said pivot in alignment with the axis of rotation of the movable frame, and a switch arm mounted on each of said blocks and adapted to engage one of said contact means when the movable frame is in one extreme of movement.

1,944,236

PROCESS FOR SIMULTANEOUSLY PRODUCING HIGH GRADE MOTOR FUELS AND LUBRICANTS FROM HEAVY HYDROCARBONS BY THE ACTION OF HYDROGEN

Robert T. Haslam, Westfield, N. J., assignor to Standard-I. G. Company

Application January 25, 1930. Serial No. 423,304
6 Claims. (Cl. 196—53)



1. A destructive hydrogenation process for simultaneously producing improved lubricants and high grade naphthas suitable for motor fuel from heavier hydrocarbon oil which comprises maintaining a liquid body of such oil in a reaction zone at a temperature in excess of 700° F. and under pressure in excess of 50 atmospheres, forcing a gas rich in hydrogen through the body of oil at a rate so rapid that the vapors of lighter hydrocarbons are swept out of the liquid as fast as formed, immediately removing the vapors from the reaction zone and subjecting the remaining liquid to the hydrogen treatment for a materially longer period.

1,944,237

LAMINATED LUMBER AND METHOD OF MAKING THE SAME

Edgar E. Heineman, Merrill, Wis.

Application February 1, 1932. Serial No. 590,202
4 Claims. (Cl. 20—91)



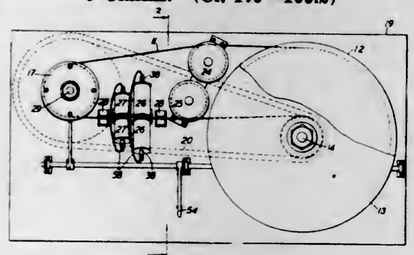
1. The hereindescribed method of forming a plank which consists in stacking a plurality of substantially flat boards of approximately common width with a plurality of metal plates of less width than the narrowest boards interposed between certain of the flat boards, securing the assembled boards and metal plates together, cutting down the opposite edges of the individual boards to substantially the edges of the metal plates, and passing the plank through an abrading machine to further reduce the width of the individual boards to the exact width of the metal plates.

1,944,238

TELEGRAPHONE

Clarence N. Hickman, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 15, 1931. Serial No. 530,167
6 Claims. (Cl. 179—100.2)



1. In a telegraphone the method of recording signals in a magnetic material which consists in highly magnetizing the material, reducing the magnetization to a point about mid-way along the substantially straight portion of the hysteresis loop and subjecting the material in this state to alternating flux representing the signals to be recorded.

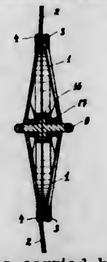
1,944,239

ELECTRIC WIND DYNAMO

Hermann Honnef, Dinglingen, Baden, Germany

Original application April 15, 1931, Serial No. 530,294, and in Germany March 19, 1930. Divided and this application July 18, 1932. Serial No. 623,276
8 Claims. (Cl. 290—55)

1. In a wind dynamo of the character described, a wind wheel structure comprising two co-axial wind wheels having rims carried by inclined spokes in planes situated between the central planes of the two wheels, the spokes of one wheel being constructed as vanes, the other wheel



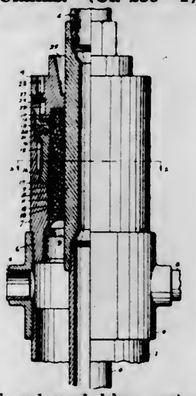
having radial vanes carried by the rim outside the latter, the vanes being adapted to rotate the two wheels in opposite directions, and complementary dynamo members connected to the two rims for the generation of electric current.

1,944,240

COMBINATION CASING HEAD AND BLOW-OUT PREVENTER

Granville A. Humason and James A. Logan, Houston, Tex.

Application January 3, 1930. Serial No. 418,371
4 Claims. (Cl. 255—1)



1. A casing head and blow out preventer for forming a seal between an outer casing and an inner tubular string within said casing, and including a tubular housing on the upper end of the casing and having an inside seat, a gland on said housing, having an inside annular flange, a packing sleeve in said seat and formed to surround said string, a bearing ring beneath said flange around said sleeve, a spider associated with the housing above said sleeve and formed to surround said string, said gland and spider being provided one with an annular groove and the other with a projection which works in said groove.

1,944,241

HYDROGENATED METHYL ABIETATE AND METHOD OF PRODUCING

Irvin W. Humphrey, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 3, 1931
Serial No. 541,953
14 Claims. (Cl. 260—98)

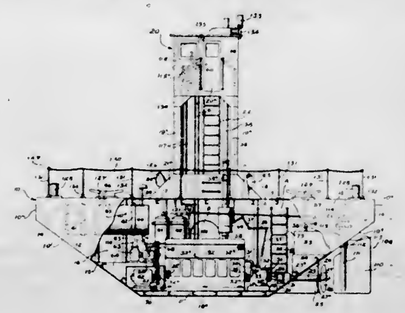
1. Tetrahydromethyl abietate.

1,944,242

MARINE TRACTOR

Eads Johnson, Morristown, N. J.

Application May 12, 1932. Serial No. 610,772
3 Claims. (Cl. 115—6)



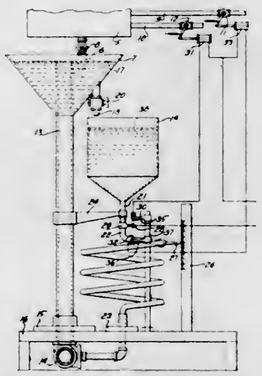
1. In watercraft of the character described, in combination, a hull having a plurality of fore and aft water-tight bulkheads therein forming a tank with the bottom and end walls thereof, driving motors positioned within said hull on opposite sides of said tank, a water-tight passage extending through said tank giving communication between the driving motor compartments of said hull, and means operable by said motors for filling and emptying said tank.

1,944,243

APPARATUS FOR CONTROLLING CHARACTERISTICS OF A LIQUID

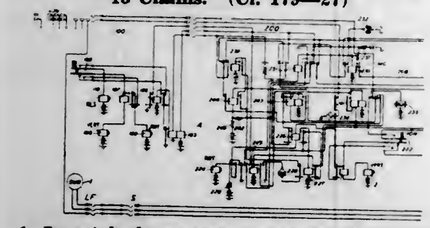
Zoltan J. Kegl, Hollywood, Calif., and Henry M. Larsen, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Original application December 21, 1928, Serial No. 327,578. Divided and this application May 19, 1932. Serial No. 612,256
7 Claims. (Cl. 137—165)



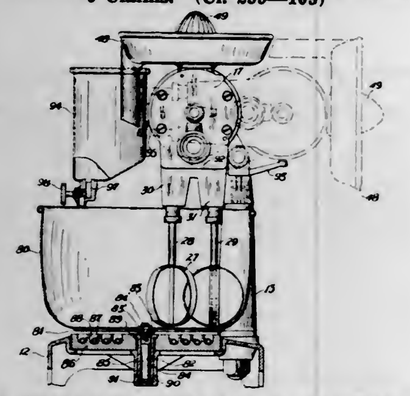
1. In an apparatus for controlling the viscosity of a liquid, a liquid container, means for varying the height of the liquid in the container in accordance with variations in viscosity of the liquid, and means for selectively adding liquids of greater or less viscosity in accordance with the height of the liquid in the container to keep the viscosity of the liquid constant.

1,944,244
TELEPHONE SYSTEM
Franklin A. Korn, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 6, 1930. Serial No. 500,466
18 Claims. (Cl. 179—27)



1. In a telephone system, a series of automatic switches, means responsive to circuit interruptions for establishing a connection through said series of switches, and means in a preceding switch responsive solely to the circuit interruptions for establishing the connection through a succeeding switch for applying a signal over the established connection when completed.

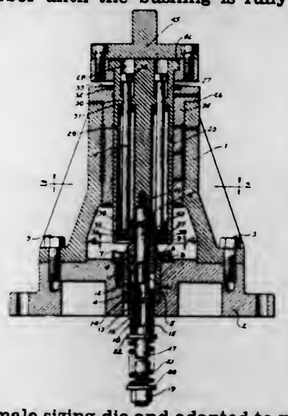
1,944,245
FOOD PREPARING MACHINE
Conrad B. Krause, Cleveland, Ohio
Application July 30, 1931. Serial No. 553,965
6 Claims. (Cl. 259—105)



1. In apparatus of the character described, the combination of a frame, a heater on said frame, a power driven implement carried by said frame and adapted to extend near said heater, a work holder, and means for supporting said work holder immediately above said heater including mounting means extending through said heater.

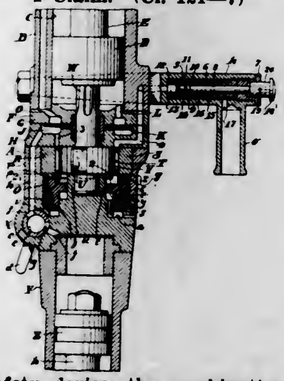
1,944,246
SIZING APPARATUS
Anthony J. Langhammer, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application January 13, 1931. Serial No. 508,506
11 Claims. (Cl. 29—90)

1. Apparatus for burnishing bushings including a pair of spaced supports, a female sizing die on one of said supports, a ram slidably mounted on the other support, a sizing arbor mounted on said ram in axial alignment with said female sizing die, a member on said ram for pressing a bushing into said female sizing die, and means bearing between said ram and said member for yieldably holding an extremity of the latter in advance of said arbor until the bushing is fully inserted



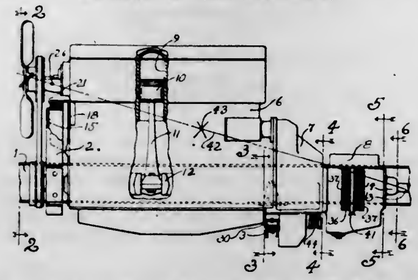
in said female sizing die and adapted to withdraw said sizing arbor from the interior of a bushing at the end of a sizing operation prior to the removal of said bushing from said female sizing die.

1,944,247
SAFETY DEVICE FOR ROCK DRILLS
Earl B. Lear, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application August 20, 1931. Serial No. 558,282
1 Claim. (Cl. 121—7)



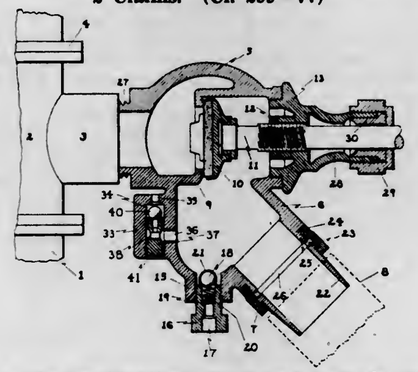
In a safety device, the combination with a rock drill having a hammer piston and rotation mechanism comprising a rifle bar wherewith the piston is slidably interlocked, a pawl carried by the rifle bar, a rotatable ratchet ring to act as an abutment for the pawl, a clutch member interlocked with the drill and being reciprocable therein, a pressure area on the clutch member and being in communication with a source of pressure fluid supply, means for pressing the clutch member into interlocking engagement with the ratchet ring, an atmospheric vent for the pressure area, a valve for controlling the vent and being adapted to be held open by the operator to communicate the pressure area with the atmosphere during the normal operation of the drill, and a spring to close the valve upon release thereof by the operator, thereby entrapping pressure fluid in the vent to actuate the clutch member out of engagement from the ratchet ring and permitting the ratchet ring to rotate with the rifle bar.

1,944,248
MOTOR MOUNTING
Roger K. Lee and Carroll L. Humphrey, Highland Park, Mich., assignors to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application February 26, 1932. Serial No. 595,356
40 Claims. (Cl. 248—14.2)



1. A mounting for an internal combustion engine assembly including a frame structure, means on said frame structure sustaining substantially the entire weight of said engine assembly and oscillatively supporting the latter, said means including yieldable supports located at one end of said engine assembly and intermediate the ends thereof respectively, and means coacting with the other end of said engine assembly substantially free from the weight thereof for limiting transverse movement of the latter end of said engine assembly.

1,944,249
PROTECTIVE DEVICE FOR HOSE LINES
John K. Lencke, Kingston, N. Y.
Application May 19, 1933. Serial No. 671,893
2 Claims. (Cl. 299—77)

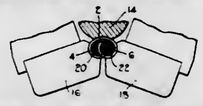


1. The combination with a water supply pipe of a casing connected to the exterior thereof, said casing having a valve therein and carrying means below said valve to provide an opening for leakage at the valve to drain to the exterior of the casing, and to enable a hose to be connected to the casing to one side of said valve and said opening so that water leaking past said valve does not drip into said hose, said means comprising another valve normally open and capable of being closed by the pressure of the water in the casing when the first valve is opened, and means comprising a normally open vent and another valve also capable of being closed by the pressure of the water in the casing when the first valve is opened to obstruct said vent, whereby as long as the first valve is shut ventilation is provided for a portion of the interior of said casing and the hose attached thereto.

1,944,250
PREPARATION OF SULPHUR DYES
Herbert A. Lubs and George C. Strouse, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 5, 1930
Serial No. 479,932
13 Claims. (Cl. 260—17)

1. In the production of sulphur colors the step of thionating a member of the group consisting of indophenols, hydroxy-aromatic-amines and hydroxy-amino-phenazines in mono-ethyl-ether of ethylene glycol.

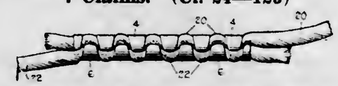
1,944,251
SPLICING OR TYING OF ROPE OR THE LIKE
Fritz P. Mansbendel, New York, N. Y., assignor to Fred Goat Co. Inc., Brooklyn, N. Y., a corporation of New York
Application May 28, 1932. Serial No. 614,085
20 Claims. (Cl. 153—1)



1. Apparatus for splicing or tying rope or the like by means of a sheet metal clip or fastener having relatively long oppositely directed fingers arranged in alternation, said apparatus comprising oppositely movable clamping jaws having arcuate working surfaces properly shaped to so curl or crimp the fingers of the fastener that the fingers at each side of the fastener curl into separate closed loops. and means to support the intermediate portion of the fastener against reaction caused by the pressure of the clamping jaws as they roll the fingers into loops.

18. The method of splicing or tying rope or the like by means of a sheet metal clip or fastener having relatively long oppositely directed fingers arranged in alternation, which includes disposing the rope ends to be spliced or tied in collateral relation, placing the fastener over the ends of the rope, then curling or crimping the fingers of the fastener so that the fingers at one side of the fasteners curl around one of the ropes while the fingers on the other side of the fastener curl around the other of the ropes, and finally additionally crimping or compressing the fastener in order to bring the alternate curled fingers into interlaced or interlocked relation.

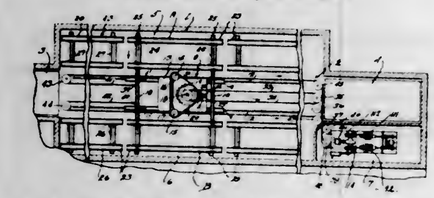
1,944,252
ROPE CLAMP
Fritz P. Mansbendel, New York, N. Y., assignor to Fred Goat Co., Inc., Brooklyn, N. Y., a corporation of New York
Original application May 28, 1932, Serial No. 614,085. Divided and this application July 29, 1932. Serial No. 625,735
7 Claims. (Cl. 24—123)



1. An intermediate or step product sheet metal clip or fastener for splicing or tying rope or the like, said fastener being made of a metal blank shaped to form a relatively narrow backbone portion provided with outwardly and oppositely directed fingers arranged in alternation upon opposite sides of the backbone portion, said sheet

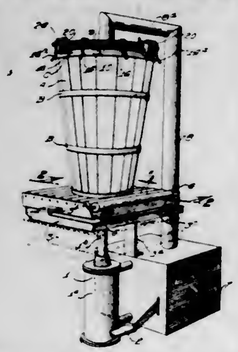
being bent at the backbone portion to assume a shallow or open V shape in cross-section, and the ends of the fingers being curled in such a manner as to insure their being rolled about the remainder of the fingers when compressed toward one another.

1,944,253
AUTOMATICALLY CONTROLLED TRANSFER DEVICE
Henry F. Martin, Detroit, Mich., assignor to Detroit Hoist and Machine Company, Detroit, Mich., a corporation of Michigan
Application January 5, 1931. Serial No. 506,583
9 Claims. (Cl. 214—16.1)



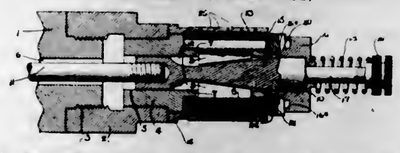
1. A device of the character described comprising a carriage, and a tray, means for moving the carriage in a predetermined path, said means comprising a stationarily positioned power device cable connected with the carriage and a trackway for the carriage, mechanical means only on the carriage for either discharging the tray from the same at an angle to the path of travel of the carriage or for moving the tray onto the carriage, and means remote from the carriage for operating the discharging means thereon.

1,944,254
MACHINE FOR FASTENING LIDS TO HAMPERS AND BASKETS
Harold Matthews, James Henry Warntjes, Edward Arthurs, and William Carl Wilkinson, Calipatria, Calif., assignors of one-fourth to San Diego Fruit and Produce Company, San Diego, Calif., a corporation of California
Application April 25, 1933. Serial No. 667,807
17 Claims. (Cl. 140—93)



1. In a machine for fastening lids on baskets and hampers wherein the lids have been previously equipped with securing devices, an apparatus for raising and lowering a basket or hamper, a lid holding means, and mechanism in conjunction with said lid holding means for acting upon said securing devices when said apparatus raises the basket or hamper into engagement with a lid carried by said lid holding means.

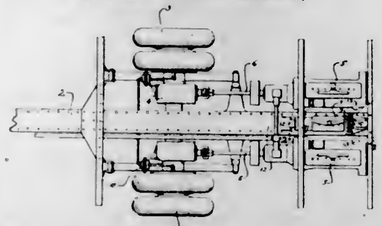
1,944,255
RING HOLDING ARBOR
Thurlow E. McFall and Charles H. Warren, Sparta, Mich.
Application August 17, 1931. Serial No. 557,610
7 Claims. (Cl. 82—44)



1. A device of the class described comprising, a rotatable mandrel, laterally expansible members on said mandrel, an elastic member surrounding said laterally expansible members and means extending beyond the periphery of said elastic member and movable longitudinally of the axis of said mandrel.

4. A device of the class described comprising, a rotatable mandrel, lateral expansible members mounted on said mandrel, an annular elastic compressible member surrounding said expansible members, a locating device movable longitudinally of the axis of said mandrel and having laterally movable means movable from a position less than the outer diameter of said annular member to a position greater than said diameter, and means for effecting said lateral movement actuated by longitudinal movement of the locating device combined with engagement of said laterally movable members with an end of said annular member and means for limiting the lateral movement of said movable members whereby continued movement of the locating device will compress the annular member longitudinally of its axis.

1,944,256
MOTOR BUS POWER UNIT
Clarence W. Miller, Detroit, and Gilbert C. Goode, Birmingham, Mich., assignors to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application September 18, 1930
Serial No. 482,803
9 Claims. (Cl. 123—2)

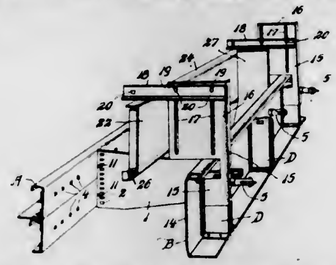


1. In a power unit, a driving motor, auxiliary apparatus including means for fueling, igniting and cooling said driving motor, a separate motor for operating said auxiliary apparatus, and regulating mechanism for the latter motor, said regulating mechanism being controllable by the temperature of said driving motor.

1,944,257
ADJUSTABLE CURB FACE
George H. Miller, Milwaukee, Wis., assignor to Metal Forms Corporation, Milwaukee, Wis., a corporation
Application February 19, 1930. Serial No. 429,720
1 Claim. (Cl. 25—118)

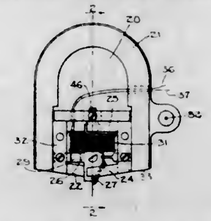
In a curb and gutter form of the class described, a back rail, a front rail, each of said

rails having openings arranged lengthwise thereof, division plates defining the length of curb section and formed with openings along the edges



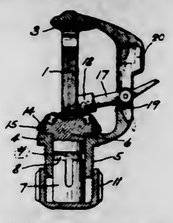
of said plates, and means cooperating selectively with an opening in each rail and certain of the openings of said plates for adjusting the length of the section in vertical disposition of said plate.

1,944,258
SOUND REPRODUCING INSTRUMENT
Frank Allen Mitchell, London, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a corporation of New York
Application July 2, 1928, Serial No. 289,846, and in Great Britain July 11, 1927
3 Claims. (Cl. 179—100.41)



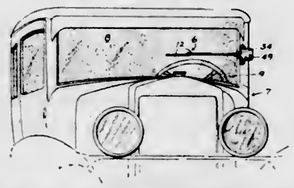
3. In an electrical reproducing device, a field magnet having four pole extensions, a pivotally mounted armature, the pivot for said armature being located within the space bounded by the pole extensions, said pole extensions arranged to extend in the plane of the field magnet, and said pole extensions over-lapping one another at their extremities.

1,944,259
MARKING DEVICE
Harry W. Moore, Dayton, Ohio
Application February 6, 1932. Serial No. 591,380
26 Claims. (Cl. 101—41)



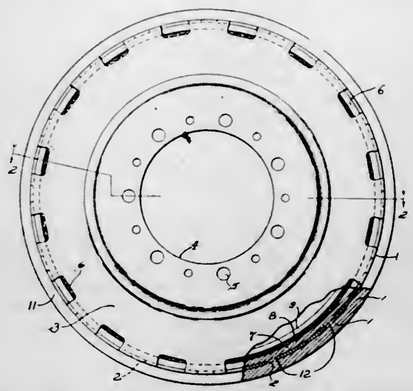
1. In an imprinting device of the character described, a holder for the article to be marked, a marker head capable of independent rotary and axial motion relative to the holder, means for moving the marking head axially under pressure, and a retractible inking device engageable with the marking head during its rotary motion.

1,944,260
WINDSHIELD CLEANER
Joseph S. Myers, Oakland, Calif.
Application August 23, 1930. Serial No. 477,210
9 Claims. (Cl. 20—40.5)



1. In a device for removing deposited material from a plane surface, a rotatable head, and a cleaning blade carried for rotation with said head and in a plane parallel to said surface, the forward face of said blade being provided with a longitudinal groove for the collection and centrifugal discharge of the material collected thereby from said surface.

1,944,261
BRAKE DRUM
William A. Mulhern, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application July 29, 1931. Serial No. 553,769
5 Claims. (Cl. 188—218)

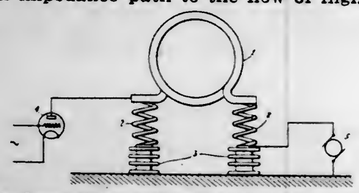


1. A brake drum including a cylindrical portion, and an integral metal lining and web on the inner and outer peripheries of said cylindrical portions respectively.

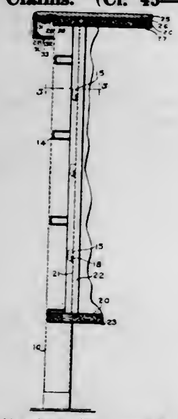
1,944,262
SUPPORT FOR HIGH FREQUENCY APPARATUS
Herbert Muth, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application April 11, 1931, Serial No. 529,531, and in Germany April 11, 1930
6 Claims. (Cl. 250—16)

1. The combination with a high frequency condenser, of a plurality of vertical supporting reactances consisting of metallic helically shaped coil conductors each having an empty space extending throughout at least a portion of the length of said coil conductors, said reactances being ar-

ranged in series with an insulator so as to present a high impedance path to the flow of high frequency from the condenser to a lower potential source.



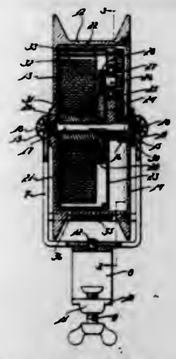
1,944,263
INSULATED FURNITURE CONSTRUCTION
Enoch Ohnstrand, Kenmore, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.
Original application April 19, 1927, Serial No. 184,925, now Patent No. 1,826,670, dated October 6, 1931. Divided and this application June 30, 1931. Serial No. 547,986
7 Claims. (Cl. 45—31)



1. A composite top for metal furniture, comprising a sheet of metal combined on its upper surface with a layer of linoleum and on its lower surface with a layer of fiber board, said top having sound deadening and heat resisting properties.

1,944,264
REEL
Stephen A. Oravec and Michael J. Shedlock, Detroit, Mich.
Application May 8, 1931. Serial No. 536,030
1 Claim. (Cl. 242—108)

A reel of the class described comprising: a supporting structure; a stationary shaft mounted on said supporting structure; a winding drum mounted concentrically rotatable on said shaft; a gear rotatably mounted on said shaft and connected to said drum; a stationary housing positioned within said drum, said housing having oppositely disposed side walls and said shaft projecting concentrically through said side walls, one of said side walls having the major portion thereof of increased thickness, said shaft projecting through the lower end of the thickened portion of said side wall; a hub positioned within said housing and rotatable on said shaft; a spring positioned in concentric relation about said hub and connected at one end thereto; the opposite end of said spring being connected to the side walls of said housing adjacent the outer edges thereof; a gear fixedly mounted on said hub; a shaft journaled in the thickened portion of said side wall; a gear on the inner end of said shaft meshing with the gear on said hub; and a gear

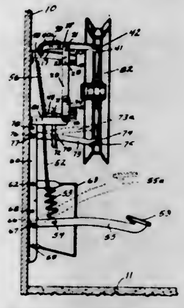


on the outer end of said last mentioned shaft meshing with the first mentioned gear.

1,944,265
FOOD PRODUCT
Bruno Pilorz, Honolulu, Territory of Hawaii, assignor to California Packing Corporation, San Francisco, Calif., a corporation of New York
No Drawing. Application March 28, 1932
Serial No. 601,715
4 Claims. (Cl. 99—8)

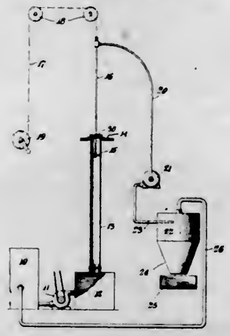
1. A process of making a food product, which comprises shredding the cores and outer cuttings from pineapples so as to form a shredded pineapple waste, mixing the shredded pineapple waste with an impure sugar solution while the moisture content of said pineapple waste is above about 60%, and then drying the mixture of pineapple waste and sugar solution to reduce the moisture content of the mixture to between about 5% and 15%.

1,944,266
WHEEL HOLDER
Harold B. Potter, Sioux City, Iowa, assignor of one-fifth to Carl O. Gill and one-fifth to George S. Gilman, Sioux City, Iowa
Application May 21, 1932. Serial No. 612,836
10 Claims. (Cl. 144—288)



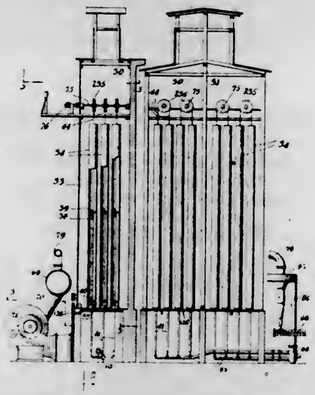
5. A wheel holder comprising a vertically mounted frame, a plurality of vertically outwardly movable jaws arranged to grip an inner periphery of a wheel pivotally mounted to the frame, and foot controlled means for operating the jaws, including a foot lever, a rod connected to the foot lever, and tension means between the lever and the jaws.

1,944,267
FILTERING
Ross Buxton Rathbun, El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application February 9, 1931. Serial No. 514,417
7 Claims. (Cl. 183—61)



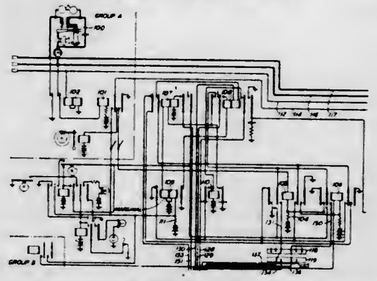
2. A cleaning head for bag cleaning comprising a plurality of sections forming an annular ring, said sections being disposed substantially end to end, a central portion to which a pneumatic source is connected and means for yieldably individually connecting said sections and central portion to press said sections against the bag.

1,944,268
APPARATUS FOR CLEANING BAGS
Ross Buxton Rathbun, El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application April 23, 1931. Serial No. 532,254
14 Claims. (Cl. 183—61)



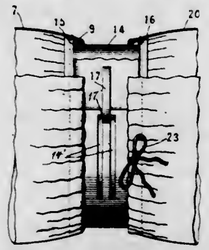
1. In separating apparatus, a bag house having a bag chamber, a plurality of bags disposed vertically in said bag chamber, a pressure chamber under said bag chamber communicating with the bottoms of said bags, suction heads in said bags, drive shafts above said bags, pulleys on said drive shafts, one pulley for every two bags, a cable passing over each pulley and connected to the suction heads of the corresponding two bags, conduits connected to said suction heads and passing out of the lower ends of the bags, and means for applying suction to said conduits.

1,944,269
TELEPHONE SYSTEM
Arthur Raynsford, Bergenfield, and William T. Haines, Mountain Lakes, N. J.; said Raynsford assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York, and said Haines assignor to American Telephone and Telegraph Company, a corporation of New York
Application April 15, 1932. Serial No. 605,410
9 Claims. (Cl. 179—27)



1. In a telephone system, calling lines arranged in groups according to the class of service to which they are entitled, a plurality of link circuits common to said groups, and means in each of said link circuits controllable through the initiation of a call by a line in any of said groups for registering the class of service to which said line is entitled.

1,944,270
VACUUM CLEANER
Weltha Reeve, Irvington, N. J.
Application April 7, 1931. Serial No. 528,309
2 Claims. (Cl. 285—76)

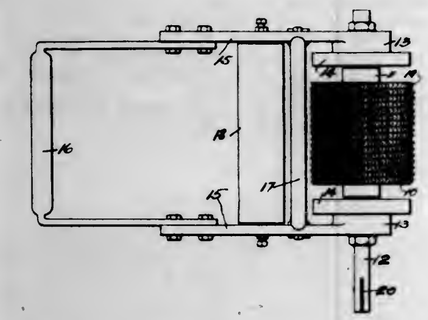


1. As an article of manufacture, a device for connecting and holding the opened ends of bags in communication consisting of a tubular split body portion formed of resilient metal, an outwardly extending flange at each end thereof, a clamping member carried by said body portion adjacent to and on one side of the split, and an elongated slot formed on said body portion on the opposite side of said split, a part of said clamping member being adapted to extend through said slot for clamping the body portion in adjusted extended or contracted position, said clamping member being positioned midway the ends of the tubular body.

1,944,271
LINT STRIPPER
John H. Riedling, Memphis, Tenn.
Application June 6, 1932. Serial No. 615,623
8 Claims. (Cl. 28—1)

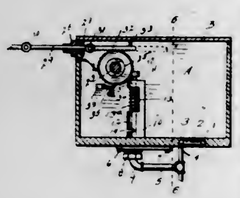
1. In a device for stripping lint from bales of fibrous material or the like, a manually portable

frame carrying a rotatable drum having teeth projecting therefrom, freely rotatable supports



for said frame at the respective ends of said drum, said supports having relatively narrow treads, and means for rotating said drum.

1,944,272
FLANGE OILER
Paul Irving Roberts, Caliente, Nev., assignor of one-half to Charles O. Sportsman
Application October 14, 1929. Serial No. 399,580
1 Claim. (Cl. 184—3)



In a device of the class described the combination of a covered oil casing, two spaced apart plunger pumps mounted through the bottom of said casing; pipes connecting said pumps with steam carrying pipes to carry the oil mixed with steam to the wheel flanges; a horizontal shaft mounted across said casing; lugs secured to said shaft adapted to operate the plungers of said pumps when said shaft is rotated; a ratchet wheel carried on said shaft; a spring held dog to prevent rotation of said wheel in one direction; and a toothed rack to be operated over said ratchet wheel to rotate said wheel when the rack is moved in one direction and to slide over the teeth of the wheel when moved in the opposite direction.

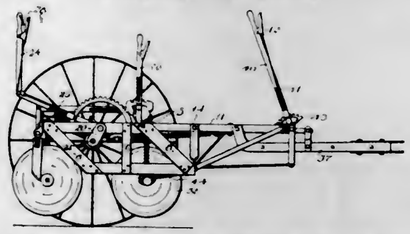
1,944,273
LUBRICATING COMPOUND
George Stanley Rutherford, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 6, 1929
Serial No. 369,006
1 Claim. (Cl. 87—9)

A wire drawing compound comprising substantially one part of soluble alginate, four parts of tallow, two parts of soap, and one hundred and ninety-five parts of water.

1,944,274
PROCESS OF TREATING CHEMICAL COMPOUNDS
Paul L. Salsberg, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 25, 1932
Serial No. 613,560
18 Claims. (Cl. 23—250)

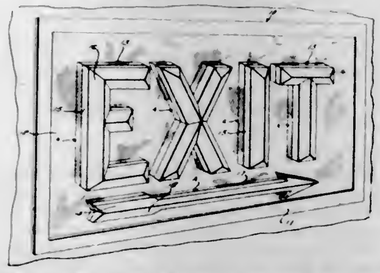
1. The process which comprises adding an olefine oxide to an alkyl ester containing free hydrogen halide and reacting the alkylene oxide with the hydrogen halide.

1,944,275
DISK HARROW
Ernest C. Sandeen, St. Paul, Minn.
Application February 26, 1932. Serial No. 595,291
2 Claims. (Cl. 55—73)
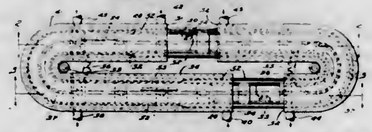


1. In a disk harrow, a frame, wheel support means pivotally mounted on said frame, a pair of wheels mounted on said wheel support means eccentrically of the axis of pivotal support of said support means, a plurality of disks resiliently mounted for vertical movement on said frame, adjusting means connected to said frame and to said wheel support means to adjust the pivotal position of said wheel support means, release means on said adjusting means to release said wheel support means for free pivotal movement with respect to said frame, and spring means connected to said wheel support and to said frame to exert resilient upward pressure on said frame.

1,944,276
ILLUMINATED SIGN CONSTRUCTION
Lindsley Schepmoes, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Application September 19, 1931
Serial No. 563,756
21 Claims. (Cl. 40—133)



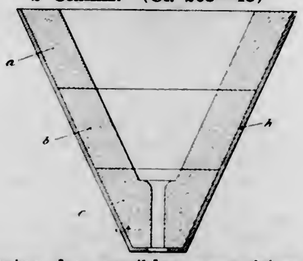
1. In an illuminated sign construction, in combination, a specular reflecting member, translucent indicia extending above said reflecting member, and means positioned behind the reflecting surface of said reflecting member for illuminating said indicia.

1,944,277
MEANS FOR PRODUCING LAMINATED GLASS
Alfred C. Schoepfer, Flint, Mich.
Application April 14, 1930. Serial No. 444,029
8 Claims. (Cl. 18—17)



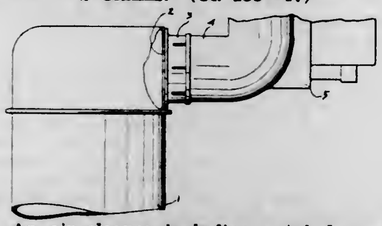
7. In a machine for producing laminated glass, a series of heat treating ovens, a conveyor extending through the ovens, a series of carriers adapted to be moved through the ovens by the conveyor, a series of press plates in each carrier and automatically operated means for placing a pressure on the press plates while traveling through the said ovens.

1,944,278
REFRACTORY LINING FOR CRUCIBLES AND THE LIKE
Hermann Schultz, Berlin, Germany
Application April 1, 1933, Serial No. 663,875, and in Germany April 29, 1932
2 Claims. (Cl. 263—48)



1. A lining for crucibles, comprising refractory frusto-conical rings adapted to be superposed to form a hollow frusto-conical body and to be nested to form a frusto-conical disk.

1,944,279
AIR CLEANER
Owen R. Skelton, Grosse Pointe, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application February 27, 1931. Serial No. 518,717
2 Claims. (Cl. 183—47)



1. An air cleaner including a tubular casing having an air inlet at one end and an air outlet, an inwardly extending flange on said casing surrounding said air inlet, a tubular member concentric with said casing having an inwardly extending flange on its outer end, a pair of pervious elements, one seated against each of said flanges, a mass of dirt collecting material between said elements, and adjustable means on said casing for detachably holding said tubular member thereon and adapted to vary the compactness of said dirt collecting material.

1,944,280
FABRICATED BOARD
George C. Snyder, Long Island City, N. Y., assignor to The Guardian Trust Company, Cleveland, Ohio, a corporation of Ohio
Application April 26, 1927. Serial No. 186,750
10 Claims. (Cl. 154—55)



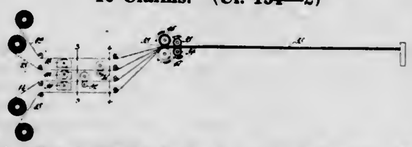
1. As a new article of manufacture, a fabricated board comprising superimposed laminations of sheet material, one of said laminations having stiffening folds deflected from its original plane, said stiffening folds being self-sustaining and separated from each other by flat portions of the sheet which are in a common plane, and the other lamination having portions permanently secured to both the folded edges and the flat portions of said first mentioned lamination.

1,944,281
PROCESS OF PRODUCING CHEMICAL COMPOUNDS
Thomas G. Stephens, Cleveland, Ohio
No Drawing. Application February 25, 1932
Serial No. 595,219
18 Claims. (Cl. 23—135)

3. The process of producing barium hydroxide comprising the steps of causing an aqueous solution of barium sulfide at a temperature of 60° C. or higher to mix with a water slurry of zinc oxide at a temperature of 60° C. or higher, allowing them to react chemically until only a relatively small amount of barium sulfide remains in solution, thereby forming precipitate zinc sulfide and a relatively large amount of barium hydroxide containing a small amount of dissolved zinc oxide, adding a small amount of sulfide solution of a relatively stronger base such as sodium or ammonium to thereby precipitate the zinc oxide as zinc sulfide, and filtering off the barium hydroxide solution.

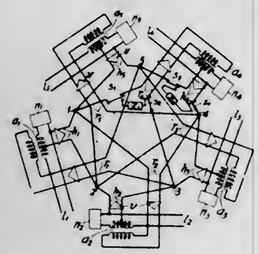
7. The process of producing zinc sulfide comprising the steps of causing an aqueous solution of barium sulfide at a temperature of 60° C. or higher to mix with a water slurry of zinc oxide at a temperature of 60° C. or higher, allowing them to react chemically, forming precipitate zinc sulfide containing adsorbed barium hydroxide, removing the zinc sulfide from the solution, making a water slurry of the zinc sulfide, adding an aqueous solution of hydrochloric acid thereby converting the adsorbed barium hydroxide to barium chloride, and washing out the barium chloride.

1,944,282
LAMINATED BOARD AND METHOD OF MAKING THE SAME
George C. Snyder, Elmhurst, N. Y., assignor to The Guardian Trust Company, Cleveland, Ohio, a corporation of Ohio
Application March 10, 1928, Serial No. 260,787
Renewed February 18, 1933
10 Claims. (Cl. 154—2)



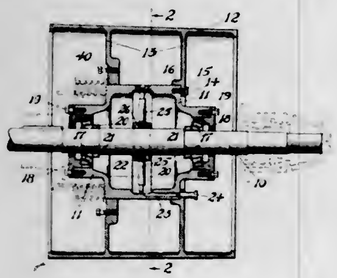
1. Flat laminated stock, provided with offset superficially machined slits to ultimately form a shoulder joint.

1,944,283
TELEPHONE INTERCONNECTING CIRCUIT
Felix Strecker, Berlin-Steglitz, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a company of Germany
Application May 31, 1930, Serial No. 458,441, and in Germany June 22, 1929
3 Claims. (Cl. 179—15)



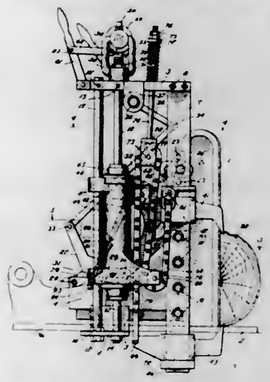
1. A scheme of interconnection of more than three transmission circuits each having transmitting terminals and receiving terminals, in which the transmitting terminals of the circuits are connected in series to form a complete polygon having an odd number of sides greater than three, representing equal impedances, and the receiving terminals are connected across respective diagonal points, the diagonal across which a pair of receiving terminals are connected being that which will, in each instance, make the receiving terminals conjugate to the transmitting terminals of the same line.

1,944,284
PULLEY
Charles W. Valentine, Peter N. Ottersland, and George A. Fairbanks, Watertown, N. Y., assignors to The Bagley and Sewall Company, Watertown, N. Y., a corporation of New York
Original application May 18, 1929, Serial No. 364,018. Divided and this application August 2, 1930. Serial No. 472,580
1 Claim. (Cl. 308—117)



The combination with a shaft, of a pulley loosely mounted on the shaft, said pulley having a one part hub, arm flanges and rim, said rim and flanges being integrally formed and said hub separately formed and means for fastening said flanges to said hub, said hub having an internal oil chamber closed by bearings at the ends of the hub, and means in said chamber for evenly lubricating both the bearings, when the pulley is running idly on the shaft with substantially no lubrication when the pulley is running with the shaft.

1,944,285
SAWMILL DOG
Adolph L. Haase, New London, Wis., assignor to The Prescott Company, Menominee, Mich., a corporation of Michigan
Application June 6, 1925, Serial No. 35,300
Renewed June 3, 1929
16 Claims. (Cl. 143—125)

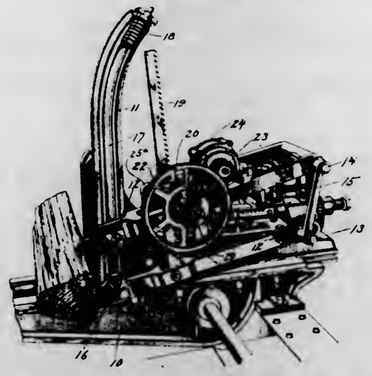


2. In a device of the character described, the combination with a knee, and an upper and a lower tooth associated with said knee for movement with respect thereto toward and away from each other into their respective operative and inoperative positions, of a fluid pressure motor having the cylinder thereof arranged for movement with respect to said knee, and means connecting said cylinder to said teeth and adapted and arranged to effect movement of the latter into their respective operative positions upon operation of said motor in a given direction and to effect movement of said teeth into their respective inoperative positions upon reverse operation of said motor, said means comprising a pulley carried by said cylinder, a second pulley connected to said knee, and a flexible element coacting with said pulleys and having its respective ends fixed to said teeth.

15. In combination with a knee of a sawmill carriage having a face, of a mounting supported on the knee for movement toward and away from the face of the knee, upper and lower dogs mounted relative to the knee, a reversible actuator interconnected between the knee and the mounting for moving the mounting toward and from the face of the knee to thereby determine the projection of at least one of the dogs to greater or lesser distances forward of the knee face, a reversible fluid pressure motor interconnected with said dogs and including the usual motor elements, that is, a cylinder and a piston, at least one of said motor elements being suspended upon one of the dogs, said motor being operable in one direction to force the dogs apart, said motor, when operated in the other direction, being aided by the weight of the log holding members and by the weight of the element of the motor suspended upon one of the dogs first to cause the upper log holding member to move downwardly until it engages the log whereupon the motor lifts the lower log holding member up into engagement with the log and finally drives both members simultaneously into the log.

CARNEGIE LIBRARY OF ATLANTA

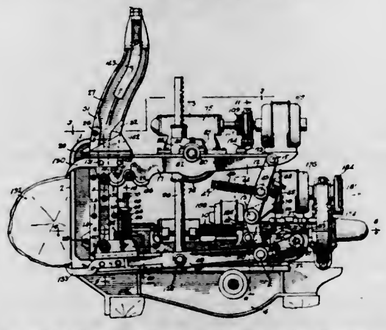
1,944,286
POWER-OPERATED DOGGING MECHANISM
Edwin H. Percy, Fort Bragg, Calif., assignor, by mesne assignments, to The Prescott Company, a corporation of Michigan
Application November 20, 1924
Serial No. 750,968
19 Claims. (Cl. 143—125)



1. In a saw-mill carriage, the combination with a knee of a power-operated dogging mechanism comprising a pair of dogs mounted to swing in a vertical plane on the knee, a toothed rack carried by one dog and extending past the other, a pinion on the latter dog engaging said rack, power-operated means for driving said pinion, and a friction connection between said power-operated means and the pinion, whereby the power-operated means may continue to rotate after the dog is stopped.

18. The combination with a saw mill carriage, an upper dog therefor, a lower dog therefor, and a reversible motor for actuating the dogs including relatively movable parts, one connected to one of the dogs and the other connected to the other of said dogs, one at least of said dogs being also movable toward and from the face of the knee, and means for controlling said movement.

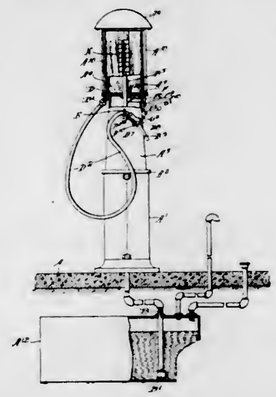
1,944,287
SAWMILL DOG
Ross E. Langill, Menominee, Mich., assignor to The Prescott Company, Menominee, Mich., a corporation of Michigan
Application September 16, 1925
Serial No. 56,590
11 Claims. (Cl. 143—125)



1. In a sawmill dog, a knee having a face, upper and lower log-holding arms associated with said knee with their log-engaging ends arranged adjacent the knee face, means associated with said knee and said ends for supporting the latter for vertical movement relative to each other and for movement transverse to the knee face, said supporting means including a shoe slidable vertically with respect to said knee and receiving one of said ends for sliding movement with respect to itself transversely of the knee face, second supporting means mounted for rocking movement in a direction transverse to the knee face and pivotally connected to said arms, means operable to effect said rocking movement of the second supporting means to simultaneously cause movement of said log-engaging ends varying distances from the knee face, and means operable to effect said relative vertical movement of said log-engaging ends.

11. A power sawmill dog comprising a knee having a guideway extending approximately parallel to the face of the knee, an elongated log holding arm, means supporting the rearward end of the arm for movement up and down and also transversely relative to the knee face, a shoe interconnected with the guideway of the knee for sliding movement therealong and having a transversely extending guideway with which the log holding arm is interconnected for longitudinal sliding movement, reversible motor mechanism for moving the log holding arm up and down and reversible motor mechanism for moving the log holding arm in and out.

1,944,288
LIQUID DISPENSING PUMP
Albrecht Larsen, Kenosha, Wis.
Application January 7, 1931. Serial No. 507,078
17 Claims. (Cl. 221—100)



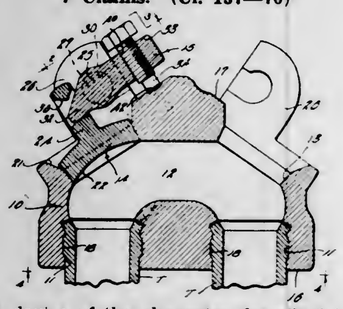
1. A liquid dispensing assembly, including a dispensing tank, a pipe system to the dispensing tank, a pump in said pipe system adapted to move fluid to the dispensing tank, a check valve below the pump, an overflow tank having an opening to receive a nozzle and adapted to receive overflow from the dispensing tank, a draining connection from said overflow tank to said pipe system, a discharge valve positioned to control draining from the overflow tank, a hose adapted to discharge fluid from said dispensing tank and adapted to be moved to discharge fluid into said overflow tank, a valve for controlling discharge through said hose and means for locking said hose in open position.

1,944,289
SPARE TROLLEY POLE CARRIER
Henry A. Leonhauser, Baltimore, Md.
Application September 19, 1931
Serial No. 563,879
5 Claims. (Cl. 224—29.5)



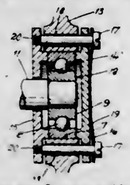
1. Means for carrying a spare trolley pole on a car, comprising a plurality of bracket members mounted upon the car and adapted to support a spare trolley pole at a plurality of points, one of said members being formed as a clamp and another being formed with a supporting lug adapted to engage between the trolley harp and wheel.

1,944,290
RETURN BEND CLOSURE
Mark H. Levy, Los Angeles, Calif.
Application May 26, 1930, Serial No. 455,596
Renewed December 4, 1933
7 Claims. (Cl. 137—76)



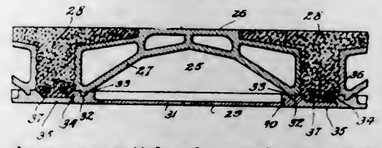
7. A device of the character described including, a body having a service opening, a closure for the service opening, and means for detachably retaining the closure in the opening including spaced lugs on the body, a stem on the closure having an opening, a lever, means detachably and pivotally mounting the lever on the lugs, the lever having an arm extending into the opening in the stem and having a second arm, and screw means on the second arm for cooperating with the body to pivot the lever in a direction to force the closure into the service opening, the second arm being adapted to be acted upon to pivot the lever.

1,944,291
BEARING
Erik Albin Lundvall, Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Corporation, a corporation of Delaware
Application February 5, 1931, Serial No. 513,675, and in Germany February 5, 1930
8 Claims. (Cl. 308—189)



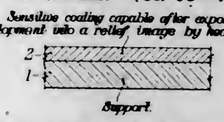
1. A shaft bearing and mounting comprising a first bearing ring, a second bearing ring, bearing members between said rings, said rings having lateral faces, a first cover member on one side of said rings, a second cover member on the other side of said rings, and means for holding the cover members against the opposite lateral faces of one of said rings comprising tie members fixed to said first cover member and loose with respect to said second cover member and a plate spring stressed between said second cover member and said tie members.

1,944,292
FLOOR CONSTRUCTION
Eugene Mahler and Erwin Rossbach, Columbus, Ohio
Application June 12, 1930, Serial No. 460,772
Renewed October 17, 1933
7 Claims. (Cl. 72—66)



4. As a new article of manufacture, a ceiling plate for reinforced concrete constructions comprising a thin flat concrete body provided with up-turned reinforcing flanges around the marginal edges thereof, wire reinforcements embedded in said edges, and long and short longitudinally extending lugs projecting from the opposite ends of said plates.

1,944,293
PHOTOGRAPHICALLY SENSITIVE ELEMENT
Michele Martinez, London, England
Original application November 17, 1930, Serial No. 496,341. Divided and this application March 26, 1932. Serial No. 604,316
5 Claims. (Cl. 95—7)



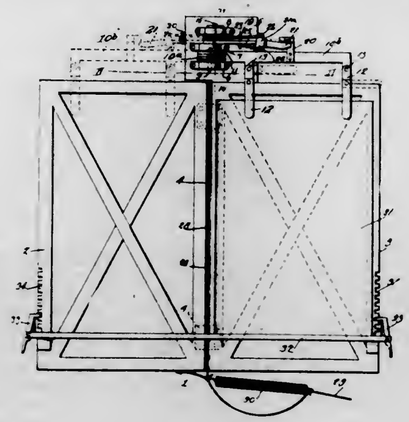
1. A sensitive element including a support and a layer thereon capable by heat development of having relief images formed therein and comprising a colloid and substances yielding in aqueous solution carboxyl and ferric ions, the ratio of the carboxyl contents, calculated as carbon monoxide, to the ferric content being greater than 1.5.

1,944,294
COLORED MINERAL PRODUCT AND PROCESS OF MAKING THE SAME
Poole Maynard, Atlanta, Ga.
No Drawing. Application April 26, 1929
Serial No. 358,428
3 Claims. (Cl. 91—70)

1. The process of preparing colored roofing granules which comprises impregating burned clay granules with a solution of an inorganic color intermediate and treating the impregnated granules with a solution of a color precipitant to effect the reaction of said color intermediate and said color precipitant to deposit a coloring material on and in said granules.

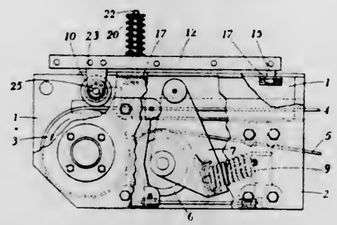
1,944,295
MUSIC LEAF-TURNING MACHINE
Joseph H. Miller, San Diego, Calif.
Application July 29, 1932. Serial No. 626,118
6 Claims. (Cl. 84—513)

1. A leaf turning mechanism comprising a series of pivotally mounted leaf carrying members, adapted when swung in the arc of a circle to shift the attached leaves of a book or music piece from one side to the other of a support, means for swinging said members in succession said means comprising a cord, a loosely mounted pulley operated by said cord, a leaf turning member normally disengaged from said pulley and engageable thereby when the cord is drawn,



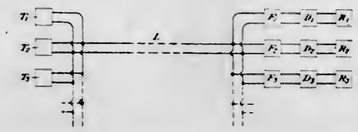
means carried by said leaf turning member for automatically engaging a leaf carrying member when the cord is drawn, means for automatically disengaging the engaged members at the end of a swinging movement, and means for automatically restoring the turning member to its normal position after such disengagement.

1,944,296
BELT DRIVE
Tage Georg Nyborg, Worcester, England, assignor of one-half to Mark Frederick Higgins, Worcester, England
Application May 17, 1932, Serial No. 611,878, and in Great Britain March 16, 1932
4 Claims. (Cl. 198—203)



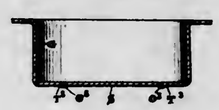
1. In a belt conveyor having an upper and a lower run of belting, a driving head comprising the combination with a driving drum normally drawing the upper run of belting toward the head, and a spring-urged pulley pressing the lower run of belting against the driving drum, of means for holding the upper run of belting against the top of the drum in case of reversal only, said means comprising pivoted mountings above the driving drum and beyond the edges of the belt, spring means urging the said mountings downwardly, and an auxiliary pulley held in said mountings during reversal, said pulley being readily removable from the mountings to clear the upper run of the belt for normal running.

1,944,297
DISTORTION CORRECTING FOR TRANSMISSION LINES
Harry Nyquist, Millburn, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application July 3, 1931. Serial No. 548,634
5 Claims. (Cl. 178—44)



1. In a signaling system comprising a plurality of channels on one transmission line each for a separate message, means at one point in the line for keeping the message channels separate, and a separate delay correcting network for each such channel, the correction for each channel being substantially that required to equalize for its band width.

1,944,298
NOZZLE INTENDED FOR SPINNING ARTIFICIAL SILK
Ernesto Orioli, Milan, Italy, assignor to Ruth-Aldo Company, Incorporated, New York, N. Y.
Application March 27, 1928, Serial No. 265,170, and in France January 9, 1928
1 Claim. (Cl. 18—8)

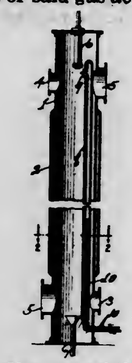


A spinneret for spinning artificial silk comprising a body portion of relatively thin sheet metal having a flat portion, a plurality of spaced partispherical nipples formed by deforming the metal to produce convex projections on the delivery side of the flat portion and corresponding concave recesses on the opposite side, with the faces of the convex portions terminating in the plane of the plane of the flat plate on the delivery side, and the faces of the concave recesses terminating in the plane of the flat plate on the opposite side, said nipples having central spinning orifices.

1,944,299
PROCESS AND APPARATUS FOR DRY SPINNING ARTIFICIAL SILK
Ernesto Orioli, Milan, Italy, assignor to Ruth-Aldo Company, Inc., a corporation of New York
Application April 5, 1930, Serial No. 442,027, and in Italy November 11, 1929
11 Claims. (Cl. 18—8)

6. Apparatus for dry spinning rayon filaments including a spinning cell, a spinneret, a passage for heated gas and a nozzle at the end of said

passage positioned at one side of the cell to direct a current of said gas across the cell against



one side of the filament while the latter is in a plastic state.

1,944,300

ALIPHATIC AMINE SULPHONIC ACID CONTAINING EIGHT OR MORE CARBON ATOMS

Karl Ott, Leverkusen-on-the-Rhine, Winfrid Hentrich, Erlangen, and Helmut Keppler, Cologne-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application April 13, 1931, Serial No. 529,888, and in Germany May 12, 1930

3 Claims. (Cl. 260—127)

1. The compounds of the probable general formula:

$$R_1 \diagdown N-R-SO_3X \quad R_2$$

wherein R stands for an alkylene or aralkylene radical which may be substituted by oxygen, a hydroxy group or a halogen atom, X stands for hydrogen, ammonium (NH_4) or a metallic equivalent, R_1 stands for an aliphatic radical which may be substituted by oxygen, a hydroxy group or a halogen atom and which contains at least 8 carbon atoms, R_2 stands for hydrogen, or a substituent of the group consisting of an alkyl, aralkyl or aryl or cycloaryl radical, an aliphatic radical containing at least 8 carbon atoms and RSO_3X, R and X being defined as above, said compounds being colorless or weakly colored substances soluble in water and suitable as auxiliary products in the textile industry.

1,944,301

PROCESS FOR PRODUCING BLEACHING POWDER

Adolf Remelé, Sandersdorf, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application March 12, 1931, Serial No. 522,163, and in Germany March 14, 1930

6 Claims. (Cl. 23—86)

1. A process for producing bleaching powder in mechanical bleach chambers which comprises subjecting to chlorination a mixture substantially consisting of hydrate of lime with a liquid which is easily volatilizable and inert towards chlorine, towards hydrate of lime, and towards bleaching powder, said inert liquid being present in such quantities that the pulverulent state of the mixture under conditions or chlorination is maintained.

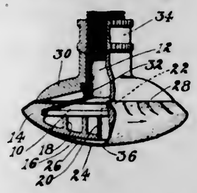
1,944,302

BUFFING TOOL

Fred Ricks and Edward Frederick Towndrow, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application April 17, 1926, Serial No. 102,688, and in Great Britain April 25, 1925. Renewed June 30, 1932

10 Claims. (Cl. 51—197)



1. A buffing tool comprising a rotatable support, a resilient pad secured to the end of said support in a plane transverse of the axis of rotation and provided with a convex face, a molded abrasive cover overlying said resilient pad with its edges folded over the edge of the pad, said cover having a convex working face, the inner surface of said abrasive cover being spaced from the convex face of the resilient pad and the abrasive cover having its margin bent around the periphery of the pad, and secured tightly to the pad, whereby an air space is provided between the central part of the pad and the central part of the cover to increase its resiliency and soften its action upon the work, a portion of said support being constructed and arranged to constitute a rigid abutment for co-operation with an applying device to prevent the central portion of said cover from being forced against said pad, and said pad and said cover being constructed and arranged to render said rigid abutment accessible to the applying device.

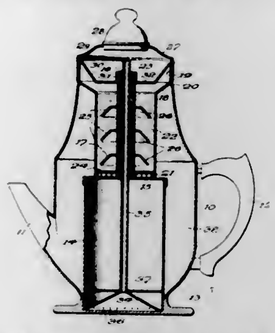
1,944,303

COFFEE MAKING METHOD AND APPARATUS

Philip A. Rush, Memphis, Tenn.

Application November 6, 1929. Serial No. 405,204

8 Claims. (Cl. 53—3)



1. In a coffee percolator, a fountain pump, a spreader member associated with the delivery end of said pump and having a plurality of drip ports therein, a coffee pack supported beneath said spreader member, and detachable stopper means for said ports for selectively controlling the rate of delivery of water from said spreader member to the coffee pack.

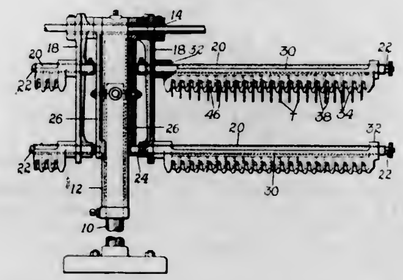
1,944,304

WORKHOLDER

Daniel A. Scarnegie, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application October 7, 1929. Serial No. 398,040

7 Claims. (Cl. 211—163)



6. In combination, a rotatable support, a spindle projecting from the support, a bar having a channel within which the spindle lies, said bar being free to turn about the spindle, there being a series of recesses in the bar, and a member carried loosely in each recess and co-operating with the walls thereof under the influence of gravity to retain work upon the bar.

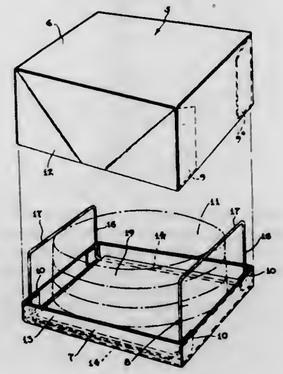
1,944,305

BOX OR CARTON

Thomas B. Schmidt, Harrisburg, Pa.

Application May 4, 1933. Serial No. 669,431

1 Claim. (Cl. 206—44)



A container for a layer cake or the like, comprising a base portion having a relatively short upstanding annular wall of uniform height, a reinforcing frame having lower members resting on the bottom of said base, rigid upstanding members forming part of the frame and projecting upwardly above said wall, upper members horizontally arranged and supported by the upper ends of the upstanding members, a relatively stiff false bottom resting on said lower members and forming a support for a cake or the like, and a relatively deep cover portion resting on the upper members of the frame and having a depending annular skirt overlapping said annular wall.

1,944,306

PROCESS FOR PRODUCING 1.1.2 TRICHLORO-ETHANE

Julius Söll, Frankfort-on-the-Main-Schwanheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application January 30, 1930, Serial No. 424,736, and in Germany March 11, 1929

17 Claims. (Cl. 260—166)

1. A process for producing 1.1.2-trichloroethane which comprises first causing acetylene to react with hydrochloric acid and then causing the resulting gaseous mixture containing vinylchloride to react with chlorine.

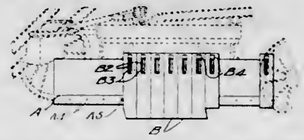
1,944,307

CHANNELER ATTACHMENT TO ROAD GRADING MACHINES

William L. Spoon, Burlington, N. C.

Application December 8, 1931. Serial No. 579,741

26 Claims. (Cl. 37—143)



4. In an attachment to a road grader moldboard, the combination of a supporting body adapted to lie against the front of the moldboard and extend to the upper edge of the moldboard and below the lower edge of the moldboard and clamping means in operative relation with said body and the moldboard to detachably secure said body to the moldboard, the lower end of said body extending below the moldboard a distance suitable to allow said body to rest on the road surface and support the moldboard free from said surface, the rear face of said body, near its lower part, being channeled to receive the lower edge of the moldboard.

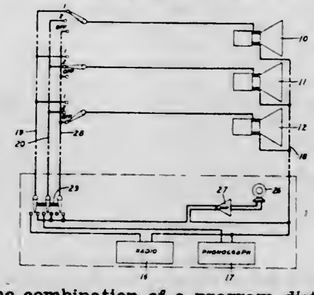
1,944,308

TRANSMISSION SYSTEM

Howard C. Turner, Anniston, Ala., assignor to American Telephone and Telegraph Company, a corporation of New York

Application February 15, 1933. Serial No. 656,949

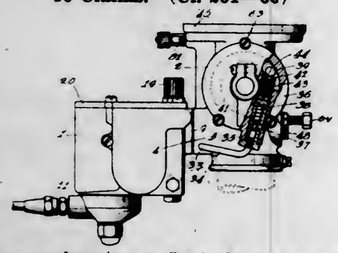
2 Claims. (Cl. 179—1)



1. The combination of a program distributing system comprising a plurality of receivers, a plurality of program sources, selector switches individual to each receiver comprising an "off" position and a position for each program source, a main control switch, and an individual lead connecting each position of the selector switch to the main control switch, with an emergency an-

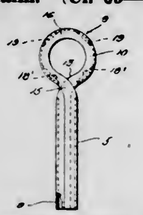
nouncing system comprising a transmitter, a source of energy therefor, means on the control switch for connecting the individual leads to the selector switches either to their respective program sources or to the emergency announcing station and a common return lead connecting the receivers, program sources and emergency announcing system.

1,944,309
CARBURETOR
Josef Vogel, San Francisco, Calif.
Application September 12, 1930
Serial No. 481,530
18 Claims. (Cl. 261—60)



1. In a carburetor, a float chamber, a suction housing, means for fastening one to the other with freedom of angular adjustability, a nozzle in the suction housing, a conduit leading from the float chamber to the nozzle, a throttle valve in the suction housing for controlling the cross-sectional area thereof and means controllable by the throttle valve for admitting air into the conduit.

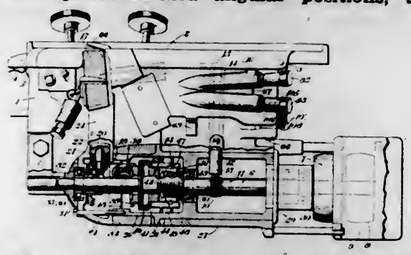
1,944,310
BOTTLE CAP HANDLE
Christian H. Wagner, Tiffin, Ohio
Application October 20, 1933. Serial No. 694,490
1 Claim. (Cl. 65—46)



A bottle cap removing and replacing device comprising a split ring, handle forming extensions connected with the ends of the ring, said ring being of angle shape in cross section to provide a horizontal flange for engaging portions of the top of the cap, and a depending vertical flange, said vertical flange having inwardly extended projections thereon for engaging portions of the cap for removing the cap from a bottle when the ring is tilted upwardly by the handle, the horizontal flange acting as means for pressing the cap back upon the bottle when said flange is pressed upon.

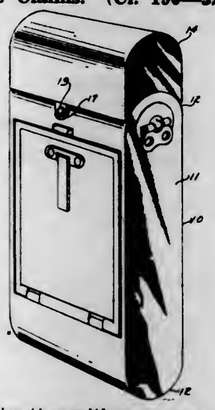
1,944,311
SKIVING MACHINE
Reginald Boyd Woodcock and Hubert Boothroyd, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application April 21, 1932, Serial No. 606,678, and in Great Britain June 4, 1931
11 Claims. (Cl. 69—9.5)

1. A skiving machine having, in combination, a rotary knife, a yielding feed roll, an angularly adjustable presser which is unyielding during the skiving operation and determines by its position the character of the scarf produced, adjustable stop members limiting its angular adjustment to two predetermined angular positions, and



treadle-controlled means for moving the presser quickly from one to the other of the two angular positions which have been predetermined by the positions into which the stop members have been adjusted.

1,944,312
AUXILIARY FILM ROLL MAGAZINE FOR CAMERAS
Lionel Black, Brookline, Mass.
Application November 7, 1929, Serial No. 405,393
Renewed July 11, 1933
3 Claims. (Cl. 190—52)

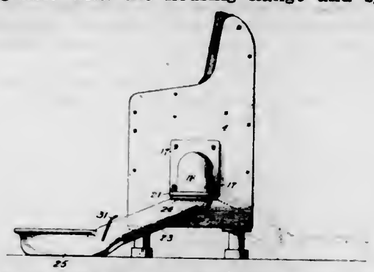


1. In combination with a camera of the folding type, a housing hinged to one end thereof, spring means tending to swing said housing to an open position, catch means between said camera and said housing for automatically locking said housing in a closed position upon movement thereto against the action of said spring means, and a spring clip supported within said housing for removably supporting a spare roll of film therein.

1,944,313
MONEY HANDLING MACHINE
Edward J. Brandt, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin
Application May 24, 1924. Serial No. 715,661
3 Claims. (Cl. 193—2)

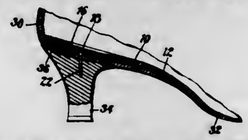
1. A money handling machine including a housing interchangeable to either end of the machine and adapted to be positioned over an opening formed therein, a flange formed on the housing, a spout having a flange thereon adapted to be positioned adjacent the flange of the housing, said spout receiving coins discharged through the

opening in the end of the machine, and means engageable with the housing flange and spout



flange whereby the spout is connected to the housing for horizontal adjustment.

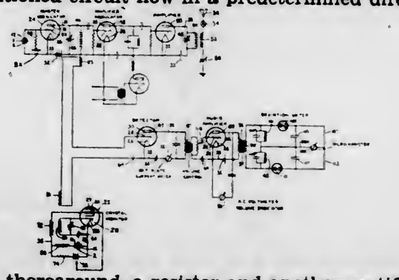
1,944,314
SHOE AND SHOE BOTTOM UNIT
Francis L. Brandt, Wakefield, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 25, 1932. Serial No. 613,406
10 Claims. (Cl. 36—76)



10. A turn shoe comprising a shoe bottom filler piece corresponding in marginal contour to that of the heel and shank portions of the interior of the shoe and having a hole in its heel portion, the rear portion of the filler piece being split to form an integral inner flap, a shank stiffener located at the outer side of said filler piece and having a hole in its rear portion, a clenching plate located at the inner side of said filler piece beneath said flap, said clenching plate having a plurality of prongs extending through the holes in the filler piece and in the shank stiffener and having holding engagement with the shank stiffener for securing the clenching plate and the shank stiffener to the filler piece and said clenching plate having a hole alined with the holes in the filler piece and the shank stiffener, an upper, lasting tacks securing the upper to the said filler piece and having their points clenched against said clenching plate, a tread sole, a heel, and a screw-fastener extending through the holes in the clenching plate, the filler piece and the shank stiffener and into the heel for attaching the heel to the shoe, the head of the screw-fastener being covered by the flap on the filler piece.

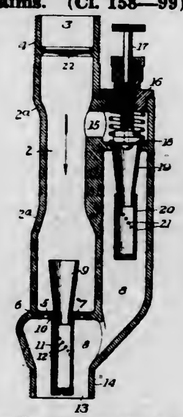
1,944,315
ELECTRIC SYSTEM AND METHOD
James Kilton Clapp, Auburndale, Mass., assignor to General Radio Company, Cambridge, Mass., a corporation of Massachusetts
Application October 22, 1931. Serial No. 570,279
2 Claims. (Cl. 250—39)

2. An electric system having, in combination, two impedances the voltages across which are equal at a predetermined frequency, means connecting the impedances in series, one of the impedances having a characteristic such that, for frequencies near the predetermined frequency, the voltage across it increases with an increase of frequency, the other impedance having a characteristic such that, for frequencies near the predetermined frequency, the voltage across it decreases with an increase of frequency, means for applying a voltage of frequency near said predetermined frequency across said impedances in series, a circuit connected across said impedances in series, said last-mentioned circuit containing a rectifier poled so that currents in said last-mentioned circuit flow in a predetermined direc-



tion therearound, a resistor and another rectifier poled to pass currents in said same predetermined direction, around said last-mentioned circuit, a connection from a point between said impedances to a point on said resistor, whereby said currents oppose each other in said connection, and means in said connection for utilizing the resultant of said opposed currents.

1,944,316
GAS FEEDING DEVICE
Frank A. Duerr and Edward A. Stierheim, Pittsburgh, Pa.
Application February 21, 1931. Serial No. 517,524
11 Claims. (Cl. 158—99)

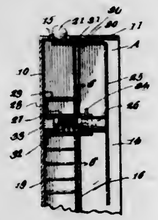


1. Apparatus for feeding gaseous fuel comprising a chamber having an inlet opening and an outlet opening, a second chamber adjacent the first mentioned chamber and interconnected therewith by said outlet opening, means adjacent said outlet opening for increasing the velocity of the fuel being fed, and means for discharging the same into said second chamber through a plurality of small openings, whereby the velocity of the fuel is further increased as it enters said second chamber.

1,944,317
GAME
Oscar W. Gustavson, Lancaster, Mass.
Application March 31, 1930. Serial No. 440,525
4 Claims. (Cl. 273—102)

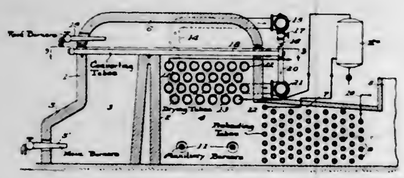
4. A game comprising a game board having a plurality of passageways and a gate opening at

one end of said passageways, a target, a gate carried by said target and bodily movable therewith disposed adjacent the gate opening and normally latched in a closed position relative to said open-



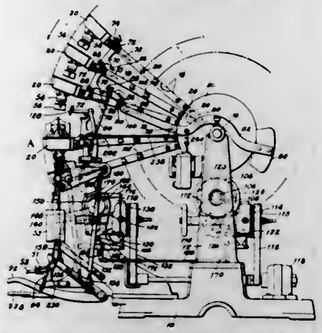
ing, a missile engaging said gate and means for releasing said gate under impact from a projectile and bodily moving said target and gate carried thereby to an open position.

1,944,318
OIL HEATER
Audley E. Harnsberger and Clyde L. Smith, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application November 25, 1931
Serial No. 577,309
7 Claims. (Cl. 196—116)



1. In a converter for cracking oil in the vapor phase, a heat-confining wall structure arranged to provide burner and tube chambers spaced by an intervening bridge wall over the top of which said chambers communicate, combustion developing means arranged adjacent to the lower part of the burner chamber, an outlet duct for furnace gases communicating with the lower part of the tube chamber, a plurality of independently regulable horizontally disposed tube coils supported at their ends by said wall structure and intermediately of their lengths by the bridge wall, said coils being arranged openly in said converter above the burner and tube chambers and below the roof of the converter, each of said coils being composed of a plurality of spaced parallel tubes through which oil vapor to be heated flows serially, a vapor manifold located exteriorly of said wall structure and operable to supply each of the independent tube coils with oil vapor whereby to cause the vapor to travel in serial flow through each of the tube coils and with multiple delivery of vapor simultaneously to each of the coils from said manifold, a second manifold disposed exteriorly of the wall structure of the converter into which oil streams heated in said tube coils and discharged therefrom are merged in a single stream, and a bank of serially united parallel tubes arranged openly in said tube chamber below the first-named tube coils and extending at right angles thereto and through which oil vapor heated in the multiple tube coils is passed following discharge in a merged stream from said second manifold.

1,944,319
MACHINE FOR USE IN THE MANUFACTURE OF BOOTS AND SHOES
George Hazelton, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 2, 1932, Serial No. 608,613, and in Great Britain May 21, 1931
104 Claims. (Cl. 12—37)

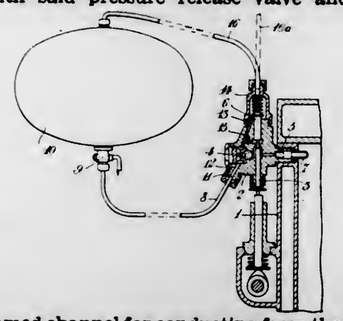


104. A machine for cement attaching soles to shoes having, in combination, a fixed shaft provided with a fluid-pressure conduit, a plurality of adjacent arms provided with pads, said arms being mounted on the shaft for rotation together as a unit and for limited rotation relatively to each other, a fixed valve member having an inlet port communicating with said conduit, a rotary valve member connected to one of the arms and having bores corresponding in number to the number of arms, each bore being arranged to communicate with the pad on its corresponding arm, and each bore except the bore for the arm to which the rotary valve member is connected being located a predetermined distance ahead of its corresponding arm, operator controlled means for rotating each of the last-mentioned arms while the rotary valve member remains at rest to cause said arms to advance a predetermined distance ahead of their corresponding bores, and means for rotating the arms as a unit to present the pads successively at an operating station, this rotation bringing the bore for each arm into communication with the inlet port, said operator controlled means acting to rotate the arm to which the rotary valve member is connected to cause said member to advance to return the bores for the other arms to their original positions ahead of said arms, the bore for that arm being located a predetermined distance behind said arm so that when said arm is rotated into the operating station its bore will be in position to communicate with the inlet port.

1,944,320
FUEL PUMP FOR INTERNAL COMBUSTION ENGINES
Knut Jonas Elias Hesselman, Saltsjo-Storangen near Stockholm, Sweden
Application March 14, 1930, Serial No. 435,682, and in Sweden March 22, 1929
3 Claims. (Cl. 103—203)

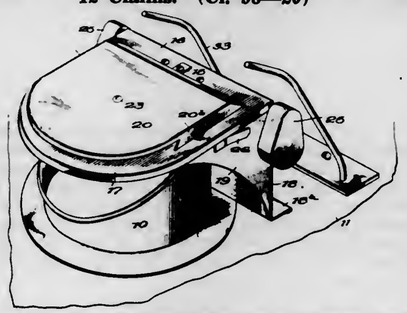
1. A fuel pump of the character described comprising a pump body providing a pressure chamber, a plunger reciprocable in said chamber, inlet and discharge valves for fuel in said body opening toward and away from said chamber, and a pressure release valve located above the level of the inlet and discharge valves for limiting the effective discharge stroke of the plunger,

said body having a first channel leading to the inlet valve for supplying fuel thereto and a second channel leading upwardly and communicating with said pressure release valve and said



first named channel for conducting from the pump air in the fuel on the suction side of the inlet valve and air released from the pressure chamber through said release valve.

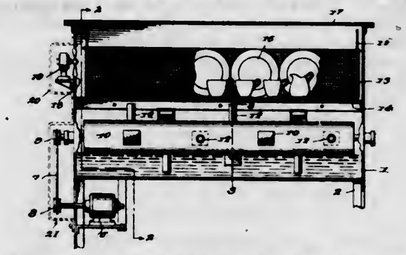
1,944,321
VENTILATOR
Walker L. C. Huxter, Richmond, Va.
Application February 27, 1933. Serial No. 658,857
12 Claims. (Cl. 98—20)



1. An automatic ventilator for exhausting foul air from vehicles comprising: an upstanding stack adapted for mounting upon the vehicle and provided with an air passage communicating with the interior of the vehicle, and a hood pivotally mounted upon said stack and including a cap portion normally seatable upon the top edge of said stack to close the air passage therethrough and a vane portion so associated with said cap portion and adapted for such disposition with respect to the normal line of motion of the vehicle as to be shiftable rearwardly by the impact of air through which the vehicle moves and effect unseating of said cap portion with respect to said stack when, and as long as, the vehicle is in motion.

1,944,322
DISHWASHING MACHINE
Isaac A. Johnson, Winona, Minn.
Application July 14, 1932. Serial No. 622,535
1 Claim. (Cl. 299—63)

An agitator for a machine of the class described comprising a hollow cylindrical body closed at its ends and having an axially extending shaft to rotatably mount the body, and tubes spaced from each other longitudinally of the body and each extending through the body circumferentially thereof for a portion of its circumference, each tube having one end portion projecting out of the body at a tangent thereto to form a scoop



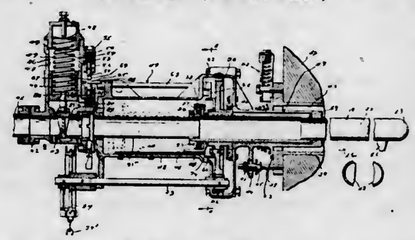
and the other end portion of each tube projecting out of the body radially thereof to provide a discharge spout.

1,944,323
COATED METAL FOIL AND METHOD OF MANUFACTURE THEREOF
Karl Kilchling, Freiburg, Germany
Application December 31, 1930, Serial No. 505,874, and in Germany December 30, 1929
2 Claims. (Cl. 91—68)



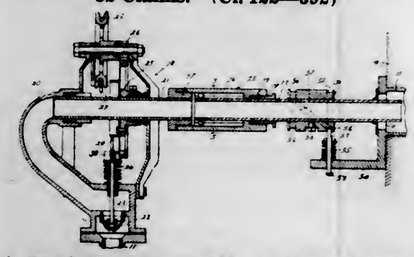
2. As a product of manufacture a wrapping material in the form of a composite sheet of strong pliable quality, the same consisting of a thin layer of metal foil of thickness in the neighborhood of .009 to .020 millimeters, lacking substantial strength, and at one or both sides thereof, without interposed adhesive, a strong pliable coating in direct and permanent union therewith, such coating composed of a layer of cellulose derivative of high pliability and tensile strength at least as thick as the metal foil, and said coating layer adhering permanently and directly with said foil by reason of the setting of the coating layer while in contact with the foil, the coating layer affording substantially the entire permanent strength of the wrapping material.

1,944,324
BOILER CLEANER
Curtis L. Howse and Willis P. Thomas, Detroit, Mich., assignors to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application November 3, 1930. Serial No. 493,153
13 Claims. (Cl. 122—392)



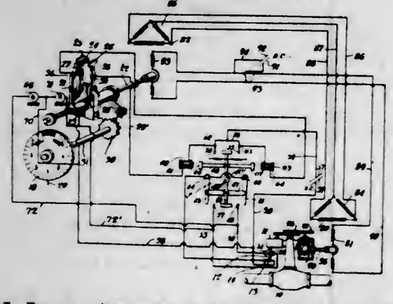
1. In combination, a blower element mounted for rotation and for traversing movement to a plurality of spaced blowing positions, a valve for controlling the flow of cleaning fluid to said blower element, a second valve for controlling a means to move said blower element from one of said blowing positions to another, and means operable upon a rotation of said blower element to actuate both of said valves.

1,944,325
BOILER CLEANER
Willis P. Thomas, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Original application September 22, 1924, Serial No. 739,130. Divided and this application February 17, 1930. Serial No. 429,123
32 Claims. (Cl. 122—392)



1. In a boiler cleaner, a blower element mounted for rotation and for shifting movement to spaced blowing positions, means for rotating said blower element, and means operating upon a predetermined rotative movement of said blower element in one blowing position without shifting thereof while in said blowing position to shift the blower element to a second blowing position.

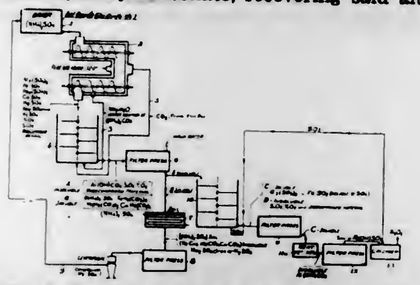
1,944,326
SYSTEM OF REMOTE CONTROL
Leo A. Hudson, Glenbrook, Conn.
Application September 29, 1928
Serial No. 309,346
22 Claims. (Cl. 172—239)
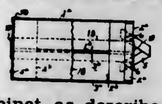


15. In a system of remote control comprising a transmitting and a receiving device, electrically connected to each other, each device including a synchronous motor having a rotor element tending to remain in positional agreement with the rotor element of the other, an index device comprising a rotatable member controlling the operation of and so connected to one of said rotor elements that any angular movement of said member will cause an angular movement of the rotor element controlled thereby, of less than 180°, even though said member may be caused to rotate through an angle greater than 180°.

1,944,327
PROCESS OF OBTAINING ALUMINUM OXIDE OR THE LIKE
Stephen Hunyady, Bethlen, Hungary
Application May 19, 1930. Serial No. 453,833
14 Claims. (Cl. 23—143)

1. A process for obtaining aluminum from mineral containing it, which comprises treating an aluminum salt in a solution obtained from said mineral with an agent so as to form aluminum hydroxy carbonate, recovering said aluminum hydroxy carbonate along with other insolubles from said mineral, and treating said carbonate and insolubles with a reagent to form aluminum sulfite.

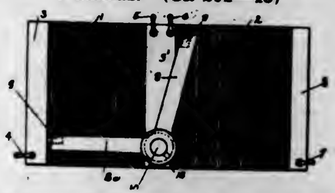


1,944,328
FILING CONTAINER
Frank D. Jonas, East Williston, N. Y., assignor to Oxford Filing Supply Co., Brooklyn, N. Y., a partnership comprising Richard A. Jonas, Richard A. Jonas, Jr., Robert P. Jonas, Frank D. Jonas, and Edward F. Jonas
Application November 5, 1931. Serial No. 573,096
7 Claims. (Cl. 229—19)



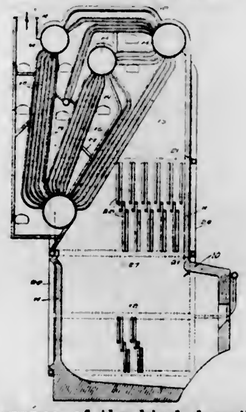
7. A filing cabinet as described comprising a casing formed of an integral blank of material having double walls and a separate removable drawer therein likewise constructed from a single blank of material, each wall of the drawer blank having integral flaps on the bottom edges folded to form a bottom, a pair of said flaps lying between the side walls and the drawer to laterally brace the drawer.

1,944,329
POTENTIOMETER
Ralph H. Langley, Cincinnati, Ohio, assignor to The Crosley Radio Corporation, Cincinnati, Ohio, a corporation of Ohio
Application April 28, 1930. Serial No. 447,816
7 Claims. (Cl. 201—48)



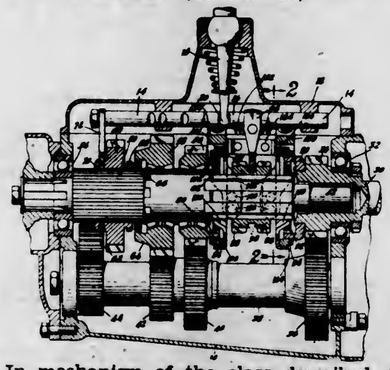
1. A compound resistance element comprising windings and a support therefor, and contact elements adapted to sweep over said windings in arcuate paths, part of each path being substantially parallel to a respective winding and part transverse to the winding, whereby the resistance is caused to vary non-linearly, said contact elements comprising arms pivoted on said support and connected together with such divergence that when one arm is moving substantially parallel with a winding the other arm will be moving transversely to a winding.

1,944,330
MIXING BARRIER AND SLAG SCREEN
George Lasker, Chicago, Ill.
Application July 9, 1930. Serial No. 466,723
2 Claims. (Cl. 122—235)



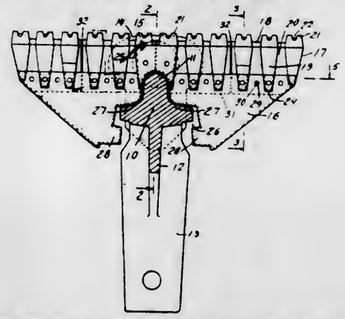
1. In a furnace of the kind described, a slag screen positioned below the incandescent zone of the furnace, said screen comprising a plurality of boiler tubes arranged in four groups, the tubes of each group being arranged in horizontally spaced pairs, the tubes of each pair lying in the same vertical plane and in closely spaced parallel relation for the greater portion of their length, the tubes of one of said groups being inclined to the horizontal, the tubes of a second group being oppositely inclined to the horizontal and interspersed between the tubes of the first group, the third group of tubes being positioned at a substantial distance underneath said first group and similarly inclined to the horizontal, the tubes of the fourth group being positioned at a substantial distance underneath said second group of tubes, the tubes of the fourth group being interspersed between the tubes of the third group and oppositely inclined to the horizontal.

1,944,331
SYNCHRONIZED TRANSMISSION MECHANISM
Earl A. Thompson, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 30, 1932. Serial No. 626,325
3 Claims. (Cl. 192—53)



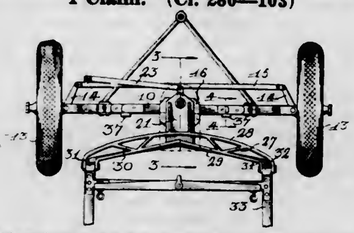
1. In mechanism of the class described, the combination of supporting means, rotary coaxial members adapted to be coupled or uncoupled, a friction and a positive clutch element fixed to one member, axially movable independent friction and positive clutch elements in driving connection with the other member, means for axially moving said last-named elements into and out of engagement with their companions, said means comprising a shift rail, a shifter fork for moving the axially movable positive clutch element, a lever, an adjustable fulcrum for said lever on said supporting means, means for operatively connecting said lever to the movable friction clutch element, and a releasable lock plunger coacting between the power arm of the lever and the shift rail.

1,944,332
GRATE BAR
James S. Thompson, New Rochelle, N. Y., assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application February 17, 1931. Serial No. 516,289
6 Claims. (Cl. 126—180)



1. A grate bar which comprises the combination of a rocking carrier and fuel supporting units mounted thereon and extending beyond the lateral edges thereof, each unit consisting of a hollow steel bottom member having spaced side walls providing an open upper end and formed with a recess in its lower edge for reception of the carrier and solid blocks of metal having portions received between said side walls and secured thereto, said blocks being separated along said bottom member by spaces.

1,944,333
VEHICLE STEERING GEAR
Arthur Toupin, Nicolet, Quebec, Canada
Application October 21, 1932. Serial No. 638,935
1 Claim. (Cl. 280—103)

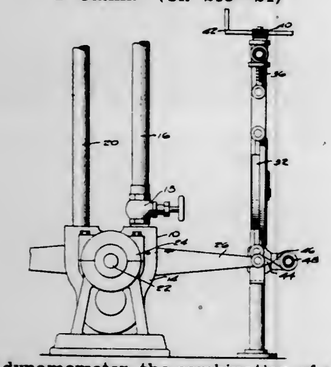


In steering gear for animal drawn vehicles, the combination with a vehicle axle, steering knuckles pivotally connected with the ends of the axle and a tie rod connecting the arms of the knuckles rearwardly of the axle, of a steering head rotatably pivoted at the rear of the axle and comprising a short rearwardly directed extension, a rod directly connecting the extension of the head with the tie rod adjacent one end thereof, a transverse-

ly extending draught member united with the front end of the head including a rearwardly disposed arcuate rib adapted to limit the steering movement by contacting with the axle, and means at the ends of the draught member for engaging the animal draught gear.

1,944,334
APPARATUS FOR MAKING ACCURATE DYNAMOMETRIC DETERMINATIONS

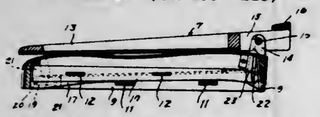
Joseph Tracy, Rutherford, N. J.
Application December 16, 1927
Serial No. 240,420
1 Claim. (Cl. 265—24)



In a dynamometer, the combination of a braking member, an arm rigid therewith, a spring balance comprising a body and an extensible member, a connection between said arm and said extensible member, a fixed support, co-operating indicating means on said fixed support and said braking member, and a screw threaded adjustable connection between said fixed support and said spring balance body.

1,944,335
COLLAPSIBLE CHAIR

John H. Van Wyck, Middle Village, N. Y.
Application June 1, 1931. Serial No. 541,132
2 Claims. (Cl. 155—148)

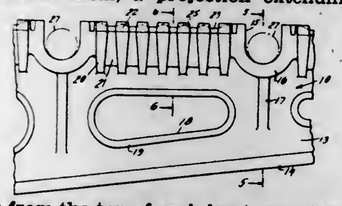


1. In a collapsible chair, a seat and legs, tapered walls forming the sides of chambers under the seat, a pair of slotted brackets carried by the seat, a bar, the ends of which are mounted in said brackets so as to be adapted to shift in the slot thereof, a pair of the legs having tapered ends and being mounted on said bar in such position that when the bar is in its lowermost position in said slots the tapered ends of said legs are moved out of the chambers and will not interfere with the tapered walls of the chambers when said legs are being collapsed against the seat.

1,944,336
GRATE FRAME CONSTRUCTION

Robert Watson, Cleveland, Ohio, assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application March 25, 1930. Serial No. 438,757
3 Claims. (Cl. 126—152)

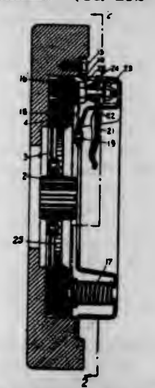
1. In a grate, a frame member comprising a web having spaced trunnion sockets in its upper edge in part defined by outwardly projecting ribs, rows of spaced lugs on opposite faces of said web near the top thereof, the lugs on opposite faces of the web being in registry and adjacent lugs in a row defining vertical passages for the flow of air between them, a projection extending up-



wardly from the top of each lug to provide a fuel support, and a plurality of approximately horizontal air channels across the top of said web between adjacent projections and also between registering projections, said channels communicating with said air passages.

1,944,337
CLUTCH

Ernest E. Wemp, Detroit, Mich.
Application December 26, 1930
Serial No. 504,841
20 Claims. (Cl. 192—68)



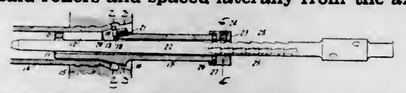
1. In a clutch, a rotatable driving member shiftable axially to engage and disengage the clutch, a rotatable carrying member, one or more sheet metal members connected to the carrying member and connected to the said driving member with said points of connection disposed different distances from the axial center of the clutch, said sheet metal members arranged to hold the rotatable driving member centered to maintain balance, said sheet metal member or members being flexible to permit the relative axial movement between the driving member and the carrying member, said sheet metal member or members being corrugated whereby the same are capable of extending and shortening.

1,944,338
TUBE AND FLUE EXPANDER

Gustav Wiedeke, Dayton, Ohio, assignor to Gustav Wiedeke Company, Dayton, Ohio, a copartnership consisting of Gustav Wiedeke, Otto Wiedeke and Robert Wiedeke
Application May 4, 1932. Serial No. 609,090
15 Claims. (Cl. 153—82)

12. In a tube and flue expander comprising a rotatable frame, expanding and flaring rollers

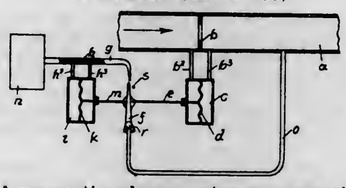
mounted in said frame, and means for actuating said frame and said rollers, a stop disk mounted on said frame for rotation about an axis substantially parallel with the axis of one of said rollers and spaced laterally from the axis



of said frame, said disk extending beyond the path of travel of said flaring rollers and arranged to engage the end of the tube which is being expanded when the rear ends of said flaring rollers are adjacent to the end of said tube.

1,944,339
PROPORTIONAL GAS METER

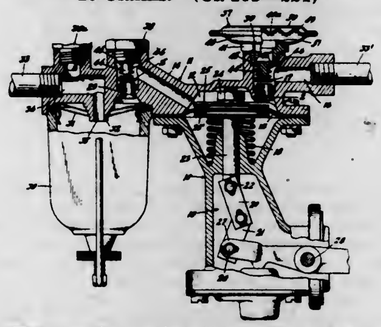
Guido Wünsch, Steglitz, near Berlin, Germany, assignor to Askania-Werke A.-G. vorm. Centralwerkstatt Dessau und Carl Bamberg Friedenau, Berlin-Friedenau, Germany
Application May 24, 1929, Serial No. 365,714, and in Germany June 22, 1928
8 Claims. (Cl. 73—68)



1. A proportional gas meter more particularly for large gas quantities, comprising in combination with a main gas pipe; means for producing a pressure difference in the said main pipe; a jet pipe device; means to supply said jet pipe device with pressure fluid to be discharged therefrom; a tube; means whereby said jet pipe device is controlled by the said pressure difference in the main pipe to convey to said tube a partial current proportional to the main current; means in said tube for producing a pressure difference also in said partial current; means responsive to said pressure difference in said partial current to act on the jet pipe of the jet pipe device in the opposite direction to the action of the first-mentioned pressure difference in the main gas pipe; and a gas meter for measuring the quantity of the said partial current.

1,944,340
AUXILIARY MEANS FOR FUEL PUMPS

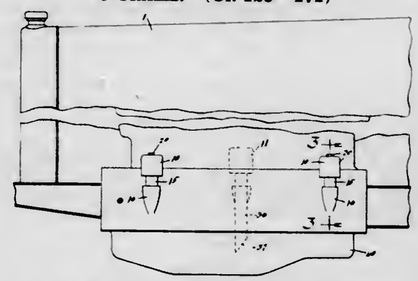
Joseph Zubaty and Abraham M. Babitch, Flint, Mich.
Application June 27, 1928. Serial No. 288,755
10 Claims. (Cl. 103—224)



1. For use in conjunction with a fuel pump which is provided with an inlet valve and an outlet valve, one of said valves being accessible through an opening adapted to receive a valve plug: a valve plug which is provided with a variable-volume lenticular container for the pumped fuel; said plug being provided with a threaded portion, a non-circular portion above said threaded portion, and with a spring-retaining extension below said threaded portion.

1,944,341
CRANK CASE VENTILATOR

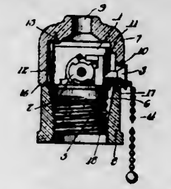
Walter A. Geise, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 30, 1927. Serial No. 209,491
5 Claims. (Cl. 123—171)



1. A method of ventilating an automobile crankcase which consists in so restricting and directing egress of air from a hood compartment containing a radiator that the air entering thru the radiator into the hood will be therein maintained at higher than atmospheric pressure, and so directing the air from said hood as to force a current of air into a crank case.

1,944,342
ELECTRIC SOCKET

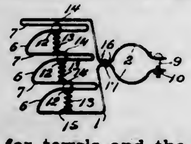
David D. Gordon, Chicago, Ill., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill., a corporation of New York
Application March 23, 1927. Serial No. 177,480
3 Claims. (Cl. 173—362)



1. In an electric stocket, in combination, a two part housing comprising a cap and a skirt, means within said housing for supporting a circuit connector, said means having a portion cooperating with said cap stopping relative rotation between said means and said cap, said means including a continuous annular shoulder and an externally screw-threaded shell, said skirt being internally screw-threaded for engagement with said shell, and latch means secured to said cap and adapted to engage over said annular shoulder toward the axis of said socket to releasably hold said first-mentioned means within said cap, said cap and skirt having abutting portions, the direction of reaction of said abutting portions being parallel with the axis of said screw-threaded shell whereby when said skirt is screwed home upon said

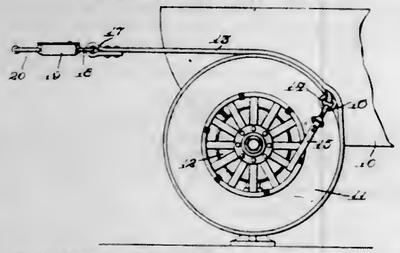
shell the screw-threads of said shell and said skirt will have a jamming effect relative to one another.

1,944,343
HOLDER FOR TOWELS AND THE LIKE
Adolph F. Herman, Kansas City, Mo.
Application April 6, 1933. Serial No. 664,740
5 Claims. (Cl. 24—257)



1. A holder for towels and the like comprising a bar having its end portions facing each other and spaced apart and adjustable toward and from each other, and adapted to clamp between them a supporting member, said bar between said end portions having U shaped portions the arms of each of which are adapted to receive between them and releasably hold a towel or the like, and adjustable means connecting said end portions for adjusting them toward each other and for holding them from spreading from their adjusted positions.

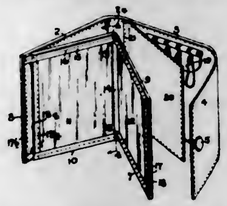
1,944,344
BRAKE TESTING DEVICE
John Sleeper Holmes, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 31, 1930. Serial No. 458,000
5 Claims. (Cl. 265—1)



4. A brake testing device comprising a flat flexible band adapted for wrapping around a motor vehicle wheel tire, said band having means attached to one end thereof for detachable anchorage to a point of the wheel radially inward of its outer periphery, said band being of a length to permit the opposite end thereof to overlap the anchored end of the band and to be extended out a distance away from the wheel periphery to enable a straight line pull thereon to turn the wheel when the same is jacked up, and means connected to said pull end of the band to measure the force of pull applied.

1,944,345
FOLDING POCKET CASE
Francis P. Hughes, Philadelphia, Pa.
Application August 10, 1929. Serial No. 384,902
5 Claims. (Cl. 150—35)

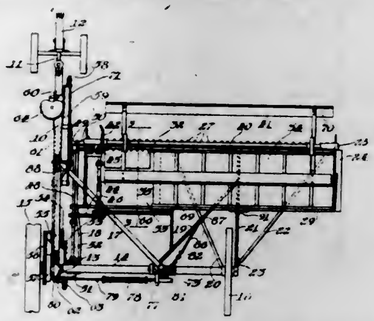
1. In a pocket case of the character stated, a body portion of greater length than width and provided at one end with a key suspension means, combined with a continuous elongated window structure in the form of a flap glazed throughout its length on both sides with transparent sheets and arranged to fold upon itself at its middle, said window structure hingedly secured along one end to the end of the body portion to one side of the key suspension means and having its other end loosely overlying said key suspension means, and a hinged flap loosely extending over the key suspension means and interposed between said means and the free swinging end of the hinged flap-like window.



1,944,346
PROCESS OF VULCANIZING RUBBER
Walter Huhn, Cologne-Mulheim-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
No Drawing. Application March 1, 1933, Serial No. 659,171, and in Germany March 3, 1932
3 Claims. (Cl. 18—53)

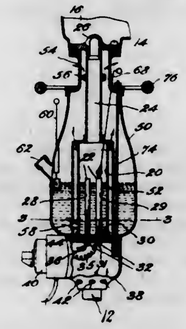
1. The process which comprises incorporating within rubber a vulcanizing agent, a thiuram sulfide not tending to prevulcanization and a vulcanization accelerator tending to prevulcanization other than an aldehyde amine condensation product, and vulcanizing the mixture.

1,944,347
WINDROW HARVESTER
Edward A. Johnston and Alexus C. Lindgren, Chicago, and Clemma R. Raney, Riverside, and Benjamin M. Hyman, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application July 9, 1928. Serial No. 291,182
24 Claims. (Cl. 56—23)



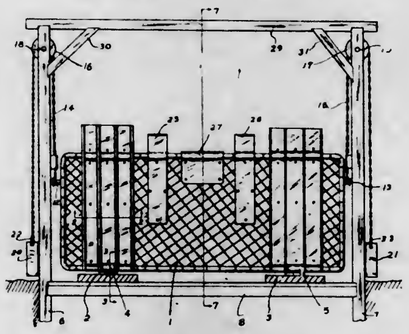
1. In a windrow harvester, a platform including cutting apparatus, a conveyor receiving the cut material and delivering it to an end of said platform and rearwardly of the cutting apparatus, and a rearwardly extending plate carried by the platform at the point of discharge of the conveyor and in back of the cutting apparatus, said plate acting to bend over tops of field stubble in its path to prepare an elevated stubble mat upon which the cut crop is laid in a windrow.

1,944,348
APPARATUS FOR APPLYING STEAM TREATMENTS
John E. Kelley, Larchmont, N. Y.
Application July 8, 1932. Serial No. 621,435
11 Claims. (Cl. 219—40)



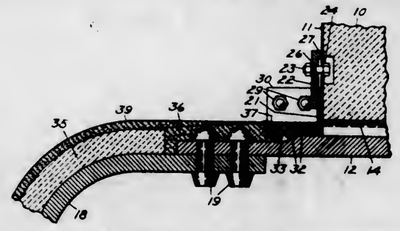
1. An apparatus of the character described, comprising a stand, a water-reservoir, a steam generating chamber in communication therewith, an electric heater in said steam generating chamber, and a steam outlet head, said reservoir joining said stand and outlet head.

1,944,349
AUTOMATIC GATE
Walter W. Kincaid, Oakland, Oreg.
Application May 28, 1932. Serial No. 614,169
1 Claim. (Cl. 29—5)



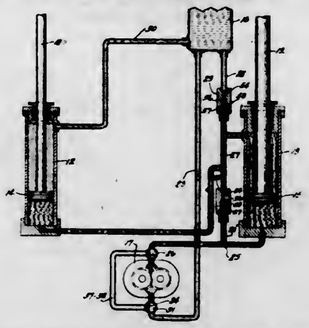
In a device of the class described, the combination of a frame member formed with a pair of uprights and reinforcing cross bars interconnecting the tops and bottom thereof, a gate hingedly mounted along its lower edge to the lower end of the frame, pulleys rotatably mounted near the upper end of the frame, chains trained about said pulleys and having their one end connected with the upper end of the gate and their opposite end connecting with weights to normally maintain the gate in an upright position with respect to the frame, spaced apart corrugated tread plates arranged transversely of the gate and extending to a point beyond its upper edge, bumper plates disposed between the tread plates adapted for wiping contact with the understructure of a vehicle, another bumper plate disposed between the first mentioned bumper plates and also adapted for wiping contact with the understructure of a vehicle.

1,944,350
AIR SEAL FOR BOILER DRUMS
Max H. Kuhner, Cornwells Heights, Pa., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application October 15, 1931. Serial No. 569,017
4 Claims. (Cl. 110—1)



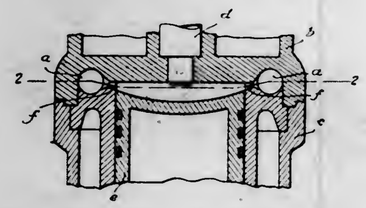
1. The combination with a refractory furnace wall having an outer sheet metal casing, the wall and casing having a circular opening therethrough, a horizontal boiler drum smaller in diameter than the opening and extending through the opening, a sealing ring surrounding the drum outside the wall, the inner diameter of the sealing ring being slightly larger than the outer diameter of the drum, means to hold the sealing ring in sliding contact with the casing, an annular sleeve extending outwardly from the ring and spaced from the drum, and flexible packing means located in the space between the sleeve and the drum to prevent leakage of air between the drum and sealing ring.

1,944,351
HOIST MECHANISM
George Leo Landry, Milwaukee, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application March 4, 1932. Serial No. 596,685
3 Claims. (Cl. 138—9)



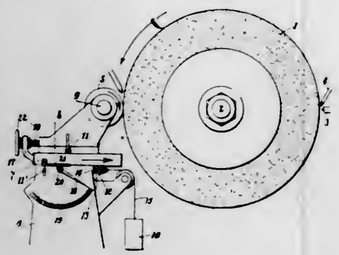
1. In combination, primary and secondary cylinders each having a movable piston, a fluid reservoir, a pump, an initial conduit connecting said reservoir and said pump, a second conduit connecting said pump and said primary cylinder below its piston, a third conduit connecting said primary cylinder above its piston with said secondary cylinder below its piston, a fourth conduit directly connecting said secondary cylinder above its piston with said reservoir, and a fifth conduit connecting said reservoir with said third conduit, said fifth conduit having therein an automatic check valve for permitting fluid to flow therethrough only from said reservoir to said third conduit.

1,944,352
INJECTION ENGINE
Franz Lang, Munich, Germany, assignor to Lanova Aktiengesellschaft, Vaduz, Liechtenstein
Original application December 1, 1930, Serial No. 499,223, and in Germany January 21, 1929. Divided and this application March 20, 1933. Serial No. 661,730
3 Claims. (Cl. 123—32)



2. In combination in an injection engine, a cylinder, a cylinder head, and a piston operating in said cylinder, the piston when in its position of maximum compression defining with the adjacent end portion of the cylinder and the cylinder head a combustion chamber, said cylinder and head being provided with cooperating means defining a concentric air storage chamber disposed outwardly beyond the cylinder and extending below the top thereof and a plurality of passages opening from said storage chamber into the combustion chamber substantially tangentially thereof, and a fuel nozzle for injecting fuel into the combustion chamber.

1,944,353
APPARATUS FOR TESTING THE HARDNESS OF GRINDING DISKS
Herbert Lindner, Berlin, Germany
Application April 23, 1930, Serial No. 446,739, and in Germany April 24, 1929
1 Claim. (Cl. 265—12)



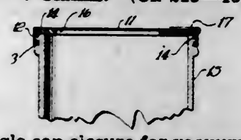
A device for testing the hardness of grinding wheels comprising means for rotatably mounting the grinding wheel, a carriage movable towards and away from the axis of rotation of the grinding wheel, means for moving said carriage towards said axis, a slidable bracket carried by said carriage, means for sliding said bracket relative to said carriage, a testing roller carried by said bracket so as to be rotatable in the same plane as the grinding wheel and having rolling engagement with the grinding wheel, said roller being thinner than the grinding wheel, and a hardness indicator operated by said carriage to indicate the distance which said testing roller penetrates said grinding wheel.

1,944,354
PHOTOGRAVURE PROCESS AND METAL PLATE THEREFOR
Niels Ludvigsen, Paris, France
Application December 16, 1929, Serial No. 414,437, and in France December 19, 1928. Renewed October 25, 1933
12 Claims. (Cl. 95—5.7)



1. The method of producing photogravure printing surfaces, which consists in providing an acid resisting grain upon the smooth face of a metal plate, said grain having uniform dots regularly disposed, thereafter coating the grained surface with a light sensitive substance, providing a grain on said sensitive surface, said second grain having uniform dots regularly disposed, photographing, developing and etching the plate substantially as described.

1,944,355
CLOSURE
Duncan R. MacKenzie, Ardsley, N. Y.
Application April 19, 1932. Serial No. 606,107
7 Claims. (Cl. 215—46)



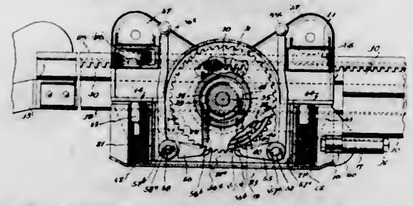
7. A single cap closure for vacuum sealed packages, comprising a top and a depending skirt provided with locking lugs, a resilient gasket carried by said top, said skirt and gasket being provided with openings positioned in alignment, and detachable means associated with said closure and positioned in said openings and passing through said gasket and said closure and adapted upon withdrawal from said closure to permit air to enter said container.

1,944,356
SAFETY RAZOR
Harris L. MacNeill, Waltham, Mass.
Application January 4, 1933. Serial No. 650,056
4 Claims. (Cl. 30—12)



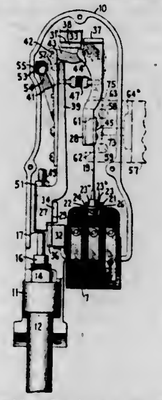
1. A safety razor comprising a body including a guard plate having a serrated edge and a handle fixed to, and projecting outward from the guard plate, a blade rest having means for releasably securing a blade thereto, hinge means connecting the rear edge of the rest with the guard plate, and arranged to permit an edge of the blade to cooperate with the serrated edge of the guard plate in shaving, the body and blade rest having detent means for releasably confining the rest and blade in cooperative relation to the guard plate, the forward edge of the blade rest being offset inwardly from the edge of a blade secured thereto, the ends of the blade rest being provided with resilient members located at opposite ends of a confined blade and projecting forward from the edge thereof, the arrangement being such that when the blade rest is secured by said detent means, the razor is conditioned for shaving, and when the rest is released the razor is so conditioned that the secured blade may be sharpened by holding the handle substantially perpendicular to a strop, and moving it to and fro over the strop, resilient blade rest members bearing yieldingly and sliding on the strop during the stropping movements, and engaging the strop to lift the blade edge therefrom when the stropping movements are being reversed, means being provided for maintaining the blade rest and blade at predetermined angles to the handle and the strop during the stropping movements.

1,944,357
FEEDING HEAD FOR RECIPROCATING OR JIGGING CONVEYERS
John R. Madeira, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 17, 1931
Serial No. 581,544
7 Claims. (Cl. 198—220)



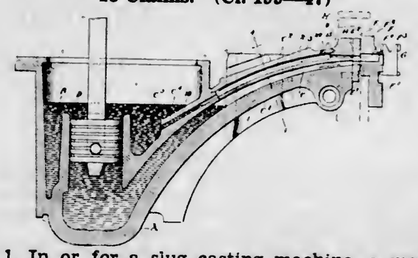
3. In combination with a feeding head for reciprocating conveyers, an extensible trough guided for horizontal movement relative to said head, a rotatable member on said head geared to said trough, ratchet means including a pair of oppositely disposed pawls operable to restrain rotation of said rotatable member in opposite directions and manually operable means for selectively moving said pawls out of operative position.

1,944,358
THERMOSTATIC CONTROL DEVICE
James G. McNamara, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application July 18, 1932. Serial No. 623,181
8 Claims. (Cl. 236—102)



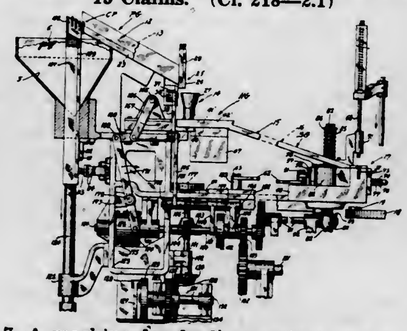
1. A thermostatic device including, in combination, an actuating member, a thermal couple having an expansion rod, a pair of rigid multiplying levers disposed between the actuating member and the expansion rod and arranged to operate the actuating member by the expansion and contraction of the rod, a rigid link pivotally connected to the first lever at the latter's end remote from its pivot point and to the second lever near the latter's pivot point, rigid supports for the levers, and blade springs pivotally connecting the levers to their supports, and a tension spring connected at its opposite ends to the two multiplying levers and acting constantly to draw them toward each other in opposition to the connecting link.

1,944,359
SLUG CASTING MACHINE
Richard R. Mead, Queens Village, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application July 1, 1932. Serial No. 620,414
13 Claims. (Cl. 199—47)



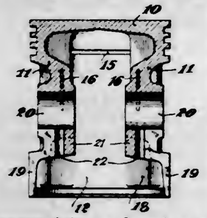
1. In or for a slug casting machine, a metal pot having a throat section built up of a plurality of separately formed parts and provided with a passage through which molten metal is adapted to be forced into the mold, the surfaces defining said passage being made smooth to prevent the accumulation of metal thereon.

1,944,360
ARTICLE FEEDING AND POSITIONING MACHINE
Peter Meyer, Newark, N. J., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania
Application August 31, 1929. Serial No. 389,842
15 Claims. (Cl. 218—2.1)



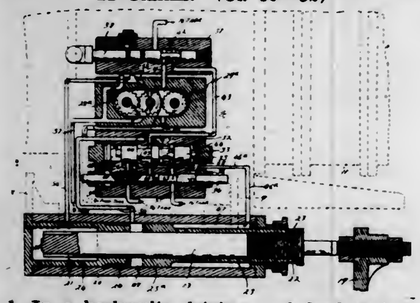
7. A machine for feeding contact pins to position to be secured in the base of an electrical device comprising a support having apertures to receive pins, a plurality of inclined guides for the movement of a plurality of vertically disposed rows of pins to position adjacent to said support, means for moving said pins above said apertures and means for inserting said pins in said apertures.

1,944,361
PISTON
Adolph L. Nelson, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich.
Original application March 16, 1927, Serial No. 175,645. Divided and this application February 3, 1931, Serial No. 513,086, and in Canada May 12, 1927. Renewed June 3, 1932
6 Claims. (Cl. 309—11)



1. A piston comprising a head, a skirt portion, a piston pin bearing, and a slot formed upwardly from the bottom edge of the skirt portion and extending through the outer part of the lower wall of the piston pin bearing, the inner part of said wall being reinforced.

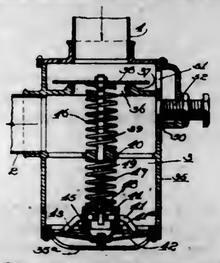
1,944,362
HYDRAULIC FEED FOR MACHINE TOOLS
Alexander Oberhoffken, Detroit, Mich., assignor to Production Engineering Company, Detroit, Mich., a corporation of Michigan
Application March 11, 1929. Serial No. 345,981
11 Claims. (Cl. 60—52)



1. In a hydraulic driving and feed system, a driven member, means for reciprocating the driven member at variant speeds, comprising a hydraulic pump, means including a piston and cylinder actuatable by the full output of the pump and capable of moving the driven member relatively rapidly to and fro, and means for slowing the driven member during part of each reciprocating cycle, comprising means for drawing part of the output of the pump from the cylinder during a portion only of each cycle, to prevent the application of the full output of the pump thereto.

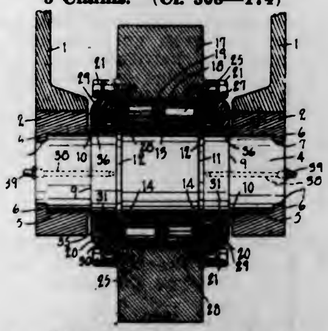
1,944,363
CONTROL DEVICE FOR PNEUMATIC DISPATCH TUBE APPARATUS
Samuel Olson, Oak Park, Ill., assignor, by mesne assignments, to G & G Atlas Systems, Inc., New York, N. Y., a corporation of New York
Application December 16, 1929
Serial No. 414,279
26 Claims. (Cl. 243—12)

1. In a pneumatic dispatch system of the minimum flow type, a transmission tube, an exhaust tube connected to a source of suction, and a normally closed control valve interposed between the tubes for regulating the flow of air therethrough, a minimum flow of air being permitted when the valve is closed, said valve being arranged for opening by the direct action of the change in



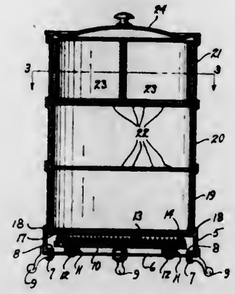
suction resulting from the introduction of a carrier in the transmission tube, spring means normally tending to open the valve and adapted for holding it open during the transit of a carrier in the tube, and means for adjusting the spring for varying the force exerted thereby.

1,944,364
ROLLER BEARING
Oswald F. Packer, Lawton, Mich., assignor to Stearns-Stafford Roller Bearing Company, Lawton, Mich.
Application September 28, 1932
Serial No. 635,161
5 Claims. (Cl. 308—174)



1. In a roller bearing, the combination with a shaft having spaced annular grooves therein, an inner bearing member arranged on said shaft and having internal shoulders at the ends thereof flush with the inner edges of said grooves, retaining rings for said inner bearing member engaged in said grooves and coacting with said shoulders, a wheel having an outer bearing member therein, an anti-friction unit coacting with said bearing members and comprising a double series of rollers and cages therefor, the rollers of one series being arranged in staggered relation to the rollers of the other, end flanges having stepped inwardly facing annular recesses secured to said wheel in supporting engagement with said outer bearing member, annular thrust bearing cages arranged in the inner steps of said recesses, bearing rollers arranged in said cages to coact with the ends of said inner bearing member, and thrust rings arranged in the intermediate steps of said recesses in opposed relation to the ends of said inner bearing member and coacting with said thrust bearing rollers, said thrust rings constituting retaining means for gaskets arranged in the outer steps of said recesses.

1,944,365
ELECTRICAL COOKING APPLIANCE
Sarah E. Patchell and Charles T. Maxwell, Spokane, Wash.
Application October 29, 1932. Serial No. 640,268
2 Claims. (Cl. 219—43)



1. An electrical cooking appliance comprising in combination a lower heating receptacle completely enclosing a heating element and having an upstanding rim, a bottom plate detachably secured to said receptacle and forming a closure therefor, a plurality of food receptacles superimposed upon said heating receptacle, the lowermost of said food receptacles having a closed bottom, the other food receptacles having perforated bottoms whereby steam passes upwardly thereinto from the lowermost receptacle, and a plurality of segmental receptacles fitted into the uppermost of said food receptacles.

1,944,366
RAIL BOND
Pliney P. Pipes, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application August 7, 1931. Serial No. 555,678
8 Claims. (Cl. 173—278)

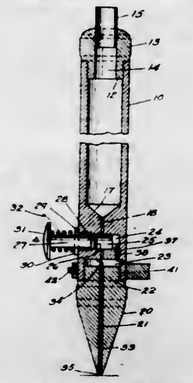


1. A rail bond to be welded to a rail comprising a body with an elongated terminal at each end butt welded to the end faces of the body, sleeves of metal surrounding the body at each end and gripping the body and butt welded to the end face of the adjacent terminal, a sleeve of metal thinner than that of the first sleeve interposed between each of the first said sleeves and body; the terminal having three longitudinal faces and a triangular cross section tapering from a maximum at the welded end to a minimum at the opposite end, one face being triangularly shaped and to be placed in juxtaposition to the rail surface to which the bond is to be welded, another of the longitudinal faces resting in a plane which forms an obtuse angle with the rail surface, the last said terminal surface and the said rail surface forming a trough shaped receptacle to catch and retain molten welding metal and means spacing the first said longitudinal terminal surface from the rail surface.

1,944,367
COMPOSITION FOR TREATING CRUDE FIBERS AND TEXTILE FABRICS
Rainer Hermann Pott, Prien near Munich, Germany, assignor to Chemische Fabrik Pott & Co., Kommandit-Gesellschaft, Dresden, Germany
No Drawing. Application July 9, 1928, Serial No. 291,471, and in Germany June 15, 1921
6 Claims. (Cl. 87—5)

3. A composition for treating fibers and textile materials, comprising hydrogenated naphthalenes made water-miscible by being mixed with small amounts of an emulsifying agent selected from the group consisting of sulphonated fats, alkylated aromatic sulfonic acids, and the water soluble salts of such acids.

1,944,368
STRIPING PENCIL
George A. Primrose, Oakland, Calif., assignor to General Motors Corporation, Detroit, Mich.
Application April 2, 1929. Serial No. 352,025
7 Claims. (Cl. 91—62.6)

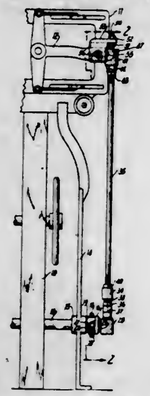


1. A hand tool for laying down an ornamental paint stripe on a smooth painted surface, including a barrel, a division wall intermediate the opposite ends of the barrel affording a pair of chambers projecting from the wall to the opposite ends of the barrel and having a communicating passageway between the chambers and a lateral bore intersecting said passageway, means to connect one chamber with an external source of striping fluid under pressure, a work contacting nozzle associated with the other chamber and provided with a duct leading from the chamber to the work contacting tip of the nozzle, a finger operated plunger slidable in said lateral bore and depressible to open the passageway for fluid flow, the end of said plunger beyond the passageway constituting a piston which snugly fits the bore and cooperates therewith to afford a pump and pumping chamber, and a duct to connect the chamber at the nozzle end of the barrel with the pumping chamber at the inner end of the bore beyond the piston, whereby the retraction of the piston withdraws fluid from the nozzle duct.

1,944,369
DOBBY DRIVE
Lucius Y. Randall, Gaffney, S. C.
Application May 25, 1931. Serial No. 539,811
9 Claims. (Cl. 139—59)

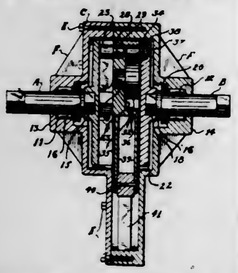
1. A drive for the rocker arm of a dobby loom having a crank shaft with an arm thereon, a

connecting rod, means for securing the rod to the crank, means for securing the rod to the rocker arm, said means for connecting the rod to the rocker arm comprising a bracket having means



for securing the same to the rocker arm, said bracket extending laterally and radially outward from the pivot point of the rocker arm to increase the leverage of the rocker arm to permit the use of a straight line connecting rod.

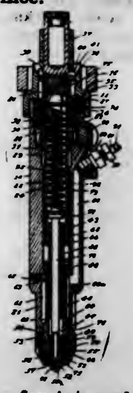
1,944,370
GEAR MECHANISM
Russell J. Reaney, Ottawa, Ontario, Canada
Application March 14, 1932. Serial No. 598,612
4 Claims. (Cl. 74—14)



1. A gear mechanism including a driving shaft; a driven shaft in spaced alignment therewith; a housing for the opposed ends of said shafts serving as bearings therefor; a trammel gear drive mechanism including an oscillating member within said housing providing a drive connection between the opposed ends of said shafts; means within said housing to guide said oscillating member and prevent rotation thereof; and friction reducing roller bearing mountings within said housing for the operative parts of said trammel gear drive connection.

1,944,371
INJECTOR
Frederick Ritz, Beloit, Wis.
Application June 25, 1930. Serial No. 463,605
22 Claims. (Cl. 299—107.2)

18. An injector for internal combustion engines comprising a casing adapted to be positioned in the cylinder walls of an engine having an injection orifice, and a reciprocable plunger in said casing having adjustable measuring means near the end thereof in close proximity to said orifice for forcing a measured quantity of fuel through the orifice.

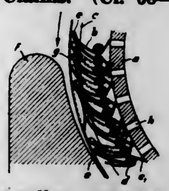


22. In an injector for internal combustion engines having a casing and an injection orifice, pressure actuated valve means closing the orifice, a reciprocable plunger in said casing in close proximity to said orifice for forcing fuel through said orifice, a port in said casing arranged to terminate the injection upon being uncovered, and means movable with said plunger for uncovering said port, adjustable by rotation to vary the amount of fuel injected.

1,944,372
PROCESS OF PRINTING
George Rivat, Paterson, N. J., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application August 2, 1929
Serial No. 383,173
8 Claims. (Cl. 8—5)

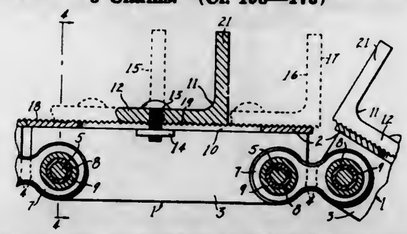
1. Method of discharge printing fabric which comprises treating a dyed fabric containing cellulose acetate with a printing paste containing a swelling agent for the fabric under treatment, a vat color and a penetrating agent which is also a solvent for the vat color.

1,944,373
MANGLING ROLLER
Paul Scheibe, Cologne-on-the-Rhine, Germany
Application November 18, 1932, Serial No. 643,300, and in Germany November 24, 1931
11 Claims. (Cl. 68—9)



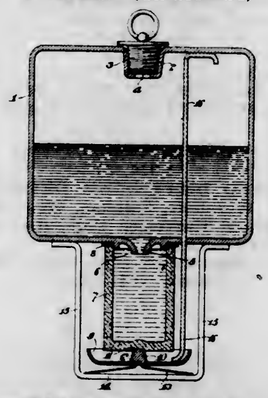
1. A mangling roller, comprising, in combination with the body of the roller, spaced rings encompassing said body on the entire length of the same; individually depressible members having a flat upper surface and being arranged between said rings and following one another around the entire circumference of the body; springs located below said depressible members and holding them normally in proper operative position; and a covering around all said depressible members.

1,944,374
CONVEYER CHAIN
Albert H. Schmidtke, St. Joseph, Mich., assignor to St. Joseph Iron Works, St. Joseph, Mich., a corporation of Michigan
Application October 24, 1931. Serial No. 570,849
5 Claims. (Cl. 198—173)



5. In a chain of the class described the combination of a series of pivotally connected link members each having a longitudinal recess in the under side and a transversely serrated top face with a longitudinal slot, a pusher member on and adjustable lengthwise of said top face, a nut adjustable lengthwise and held against turning movement in the longitudinal recess of the link member, and a threaded member engaging through the slot and connecting the pusher member and the nut.

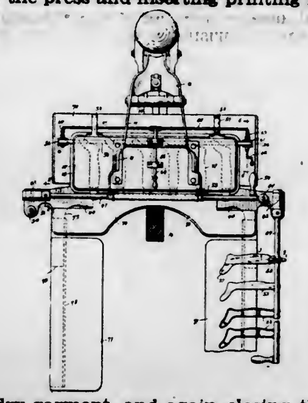
1,944,375
HUMIDIFIER
Emil Schneider, Philadelphia, Pa.
Application December 29, 1931
Serial No. 583,635
4 Claims. (Cl. 299—24)



4. A humidifier comprising a water reservoir, a closed hollow porous walled evaporator arranged below said reservoir, a communication between the bottom of the reservoir and the interior of said evaporator, and means controlled by the drip of excess water from the exposed surface of the evaporator for retarding the flow of water from the reservoir to the evaporator.

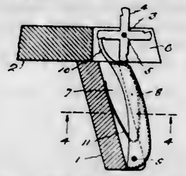
1,944,376
HOSIERY PRESS
Edward J. Schremp, Flushing, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., a corporation of New York
Application February 21, 1924, Serial No. 694,210
Renewed November 25, 1931
42 Claims. (Cl. 223—17)

1. That improvement in the method of treating garments by successively applying pressure which consists in inserting a damp garment in a hot press, and closing the press to dry the garment, opening the press and inserting printing material



on the dry garment, and again closing the press to perform the printing operation upon the dry garment.

1,944,377
AMUSEMENT DEVICE
Daniel Everett Taylor, Willimantic, Conn.
Application April 21, 1933. Serial No. 667,156
1 Claim. (Cl. 124—14)

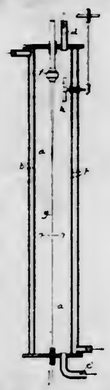


An amusement device which comprises a barrel having a slot in its rear end, a grip extending angularly from the rear end of the barrel and having in its back edge a mortice that communicates with the slot in the barrel, a member rotatably mounted in the slot in the barrel, said member having a plurality of radially extending arms that successively project above the barrel and are adapted to receive, as said member is rotated, a loop of an elastic missile, a hand piece located in the mortice in the grip with its lower end pivoted to the lower end of the grip and its upper end movable into and out of the path of the arms of the rotatable member, and a spring fastened in the grip mortice and normally pressing the hand piece outward from the grip mortice and causing the upper end of the hand piece to extend into the path of and engage said arms, inward pressure on said hand piece moving its upper end from the path of and permitting the arms to rotate.

1,944,378
PROCESS AND APPARATUS FOR PRODUCING DULL LUSTER RAYON
Raymond Alfred Joseph Thenoz, Milan, Italy, assignor to Ruth-Aldo Company, Inc., a corporation of New York
Application January 24, 1930, Serial No. 423,166, and in Italy July 16, 1929
5 Claims. (Cl. 18—8)

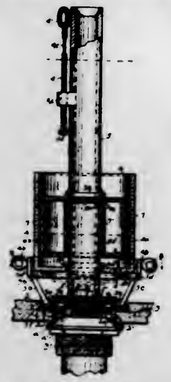
5. In apparatus for dry spinning rayon filaments, a spinning cell of the closed type adapted to retain gas in which the solvent vaporizes, a spinneret adjacent an end of the cell, and rotary

fan means within the cell for creating in said gas adjacent the spinneret a transverse current directed across the path of the filaments adja-



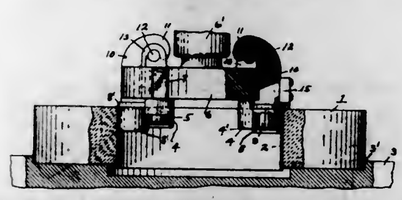
cent the spinneret at a velocity sufficient to produce a substantial permanent deformation in the contour of the filaments.

1,944,379
FLUSH VALVE
Bert O. Tilden, Trenton, N. J., assignor to B. O. T. Manufacturing Company, Trenton, N. J., a corporation of New Jersey
Application February 1, 1933. Serial No. 654,678
5 Claims. (Cl. 4—58)



1. A water closet flush tank having a flushing opening in its bottom, a seat concentric to said opening, an annular valve to close said opening, a tubular stem to support the valve having a shoulder which defines a reduced portion that passes through the valve and disposes the valve at right angles to the axis of the stem, said stem having a molded medial shoulder and threads adjacent said shoulder, an annular float having concentric threads to engage the medial threads of the stem, an open top chamber to loosely enclose the float, the bottom of the chamber having an axial opening to receive and guide the stem, said chamber adapted to be flooded with the flushing water to envelop and render the float buoyant, the bottom of said chamber being formed with a relatively large eccentric opening adapted to drain said chamber to effect the closing of the valve at a predetermined moment, and means to raise the stem and float to start the flushing operations.

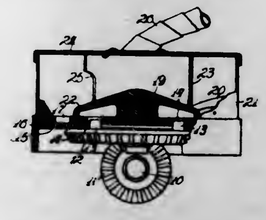
1,944,380
METHOD OF AND MEANS FOR BUSHING OPENINGS
George E. Vance, Springfield, Ohio, assignor to The Safety Grinding Wheel & Machine Company, Springfield, Ohio, a corporation of Ohio
Application April 2, 1930. Serial No. 441,116
6 Claims. (Cl. 29—33)



1. The method of bushing an opening consisting of inserting in the opening a sleeve of soft metal of suitable size to encase the wall of the opening with its ends projecting beyond the ends of the opening, stretching and pressing the metal into intimate contact with the wall of the opening, and thereafter flanging the ends of the sleeve against the ends of the opening and then trimming the edges of the flanges.

5. In an apparatus for bushing an opening with metal insertable loosely within the opening in the form of a sleeve, a rotatable support movable lengthwise through the opening, a plurality of rolls rotatably mounted on said support and engageable with said sleeve to stretch and press the sleeve into intimate contact with the walls of the opening, and a plurality of shoes arranged to be mounted upon the support to also engage the sleeve after the operation of said rolls to iron the inner surface of the sleeve to symmetrical form, and a plurality of flanging rolls having flanges to flange the ends of the sleeve after the same has been acted upon by the said rolls and shoes.

1,944,381
SEED DISPENSING DEVICE
William F. Wamhoff, Emblem, Wyo., assignor to International Harvester Company, a corporation of New Jersey
Application January 19, 1931. Serial No. 509,696
3 Claims. (Cl. 221—138)



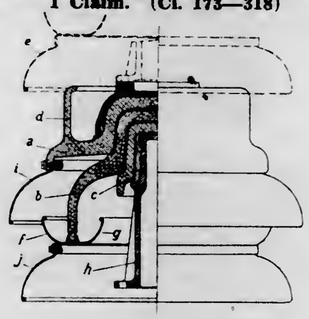
1. In a planter and in combination therewith a seed hopper having a bottom in which a substantially annular opening is formed around the periphery thereof, a seed plate rotatably mounted over said opening, a partition in the hopper positioned to form a central seed supply compartment and a surrounding seed delivery compartment in communication with the seed plate, said partition being provided with an opening to provide a means of communication between the two compartments, and a cover for simultaneously closing both of the compartments.

1,944,382
AUTOMATIC DOORSTOP
Andrew J. Wecker, Dayton, Ohio
Application March 30, 1931. Serial No. 526,413
1 Claim. (Cl. 292—334)



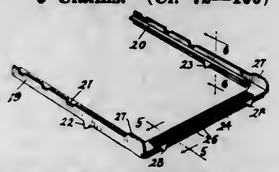
A closure assembly including a pair of folding doors having a locking bolt engageable alternately with one of two keepers, one of which is engaged by the bolt when the doors are closed, the other of which is engaged when the doors are open, characterized by a spring frictionally engaging the bolt to hold the same in inoperative position during the swinging motion of the doors in each direction, said spring automatically engaging either keeper to release the bolt as the doors move into operative range of a keeper which permits the bolt to drop into the keeper engaged by the spring to lock the doors.

1,944,383
OIL BATH INSULATOR
Robert Weill, Paris, France
Application January 27, 1931, Serial No. 511,573, and in Germany January 27, 1930
1 Claim. (Cl. 173—318)



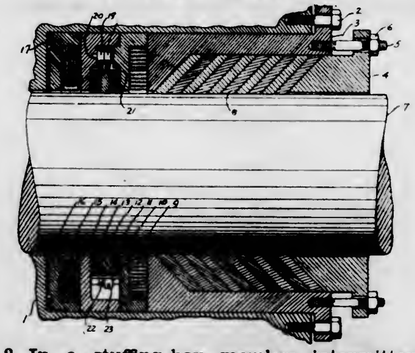
In a petticoat insulator, an oil bath straddling said petticoat, said bath being secured to the lower edge of the petticoat in order to be supported by the bottom only and in contact with said petticoat at this point only.

1,944,384
STEP FOR MANHOLES
Ralph H. West, Willoughby, Ohio, assignor to The West Steel Casting Company, Cleveland, Ohio, a corporation of Ohio
Application May 21, 1930. Serial No. 454,441
6 Claims. (Cl. 72—100)



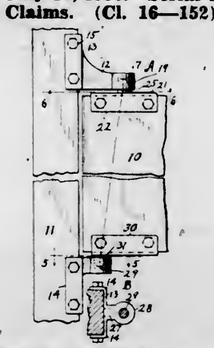
3. A step of the character described comprising a substantially U-shaped casting, the free legs of which are T-shaped in cross section, and locating means carried by said free legs.

1,944,385
FLAME EXTINGUISHER FOR STUFFING BOXES
Harley T. Wheeler, Dallas, Tex.
Application November 7, 1930. Serial No. 494,010
10 Claims. (Cl. 286—27)



8. In a stuffing-box member intermittently exposed to explosive carbon depositing gaseous mixtures of the character used in gas engines, a plurality of interconnected compartments, and means therein including metallic straining material, to reduce the temperature of any gases and vapours which may pass thru them.

1,944,386
HINGE
Edward N. Winslow, Shaker Heights, Ohio, assignor to The Mills Company, Cleveland, Ohio, a corporation of Ohio
Application July 14, 1930. Serial No. 467,823
2 Claims. (Cl. 16—152)

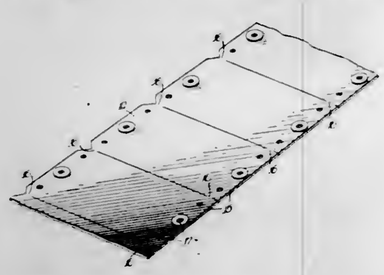


1. A door hinge comprising a post member and a door member, one of said members having a pair of laterally spaced pivoting elements, the other of said members having a single laterally offset pivoting element adapted to cooperate with one of said first-named elements when the second member is in one position, and to engage the other of said first-named elements when the position of the second member is reversed.

1,944,387
ADDRESS TAG
Parvin Wright, Seattle, Wash., assignor to The Gerrard Company, Inc., Chicago, Ill., a corporation of Delaware
Original application December 5, 1927, Serial No. 237,704. Divided and this application April 24, 1930. Serial No. 446,882
1 Claim. (Cl. 281—5)

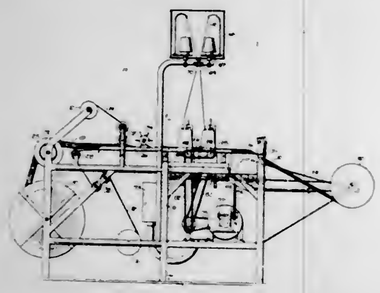
As an article of manufacture, a strip of connected tags, formed of stiff sheet material such

as cardboard, which strip is adapted to be fed through an addressing machine in engagement with a feeding mechanism having projections thereon, each tag in the strip being connected to the preceding one by narrow uncut webs which are located adjacent the sides of the strip and are aligned with the other uncut webs between



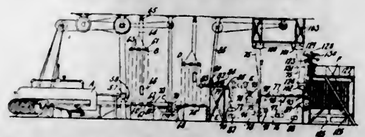
the other tags throughout the strip, and each tag being provided with a plurality of apertures also in alignment with said uncut webs throughout the strip, said apertures being designed to interfit with certain of said projections for centering the strip in the machine, and said webs being designed to coact with certain of said projections to separate each tag from the strip.

1,944,388
TACKING MACHINE
Fred Russell Zimmerman, Chicago, and Vincent Paul Killelea, Berwyn, Ill., assignors, by mesne assignments, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware
Application July 25, 1930. Serial No. 470,617
3 Claims. (Cl. 112—2)



1. A tacking machine including sewing means for making a plurality of stitches in a piece of material, feeding means for moving said material between two of said stitches sufficiently to make two separated series of stitches, a presser foot for holding said material in position during the stitching, a breaker arm and a latch member in the form of a bell crank adapted to latch said breaker arm to said presser foot, but adapted to be unlatched by movement of the presser foot, and means operated from a single member for discontinuing the operation of said sewing means, immediately thereafter operating said presser foot and breaker arm to break said thread and release said material, and immediately thereafter to operate said feeding means and thereafter to release said presser foot and restart said sewing means.

1,944,389
METHOD FOR MANUFACTURING TIRES
Adrian O. Abbott, Jr., Grosse Pointe Park, Mich., assignor to Morgan & Wright, Detroit, Mich., a corporation of Michigan
Original application July 30, 1927, Serial No. 209,564. Divided and this application January 8, 1931. Serial No. 507,454
39 Claims. (Cl. 154—14)

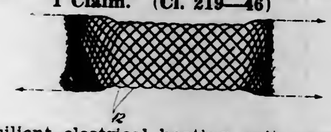


2. In building tires, the steps of stitching the marginal portions of a slab around the beads, and applying a tread to the slab.

3. In building tires, the steps of arranging cord fabric so that the cords in different sheets of fabric extend in different directions, slitting said fabric to form strips of the required width, and stitching said strips together to form a plied sheet.

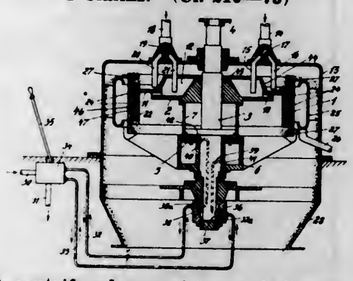
32. In building tires, the steps of arranging strips of fabric in superimposed relation, cutting said strips to required length, stitching said strips together to form a flat slab, and applying a tread to said slab.

1,944,390
ELECTRICAL CONDUCTOR
Rubén Aceves, New York, N. Y.
Application July 23, 1931. Serial No. 552,576
1 Claim. (Cl. 219—46)



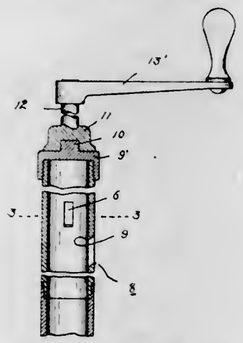
A resilient electrical heating unit comprising an elastic core, an intermediate woven covering of non-conducting material, and an outer covering of woven material formed of metallic threads capable of conducting electricity and of being heated by the passage of current, said intermediate and outer woven coverings being adapted to stretch with the core.

1,944,391
CENTRIFUGAL
Ludwig Altpeter, Essen, Germany
Application June 1, 1931, Serial No. 541,419, and in Czechoslovakia and Poland June 5, 1930
4 Claims. (Cl. 210—73)



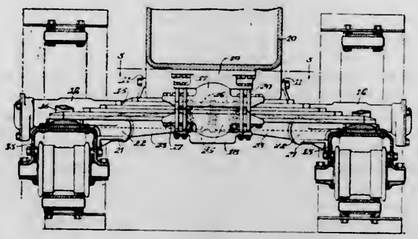
1. A centrifugal comprising a shell, means for rotating said shell, a disc rotatable with and axially displaceable along the mid portion of said shell and having recesses in its perimeter, thickened portions at the ends of said shell, draining members extending along the mid portion of said shell so as to enter said recesses, and means for feeding material into said shell at one side of said disc.

1,944,392
SAMPLING DEVICE
Samuel E. Atkins, Duluth, Minn., and Theodore Carlson, Crystal Falls, Mich.
Application August 24, 1931. Serial No. 558,876
3 Claims. (Cl. 83—15)



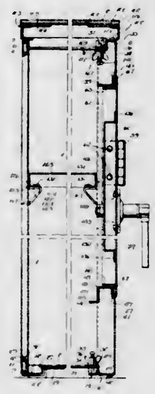
1. In a rotatable sampling machine the combination of a single tubular member provided with a plurality of spaced ports out of alinement both circumferentially and longitudinally of the tube, the integral leading edges of the wall of the tube defining the ports being flared outwardly and thinned to scoop and guide thru the ports the material to be sampled.

1,944,393
TRACKLAYING TRACTOR
David B. Baker, Riverside, Clifford R. Rogers, Oak Park, and Norman O. Panzegrau, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application May 14, 1932. Serial No. 611,274
3 Claims. (Cl. 305—9)



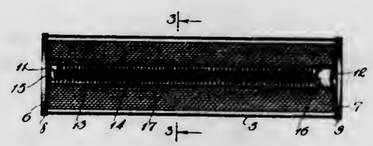
1. In a track laying tractor having a main frame, and in combination therewith track frames pivotally connected on a transverse axis at their rear ends to the rear end of the main frame, attaching members rigidly mounted at the forward ends of the track frames, a transverse support for the main frame pivotally connected to said members, braces rigidly connected to the members and extending rearwardly and inwardly, and means for pivotally connecting the rear ends of said braces to the main frame adjacent the center line thereof and in transverse alignment with the pivot axis of the track frames.

1,944,394
CABINET
James E. Bales, Aurora, and John E. Hallberg, Oswego, Ill., assignors to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Application June 20, 1930. Serial No. 462,606
18 Claims. (Cl. 312—141)



6. An enclosing structure comprising six sides including a top and a bottom, all of said members having interlocking and interfitting relationship with a companion member on at least one side of each member, said top and bottom each having one edge thereof interlockingly and hingedly engaged with at least one of said sides and each having another edge free, means operated from the inside of the structure for locking the free ends of the top and bottom to a part of the structure, and doors for said structure to prevent access to the last named means.

1,944,395
POLISHING DEVICE
Sidney R. Bell, Stamford, Conn.
Application March 17, 1932. Serial No. 599,418
4 Claims. (Cl. 242—107)



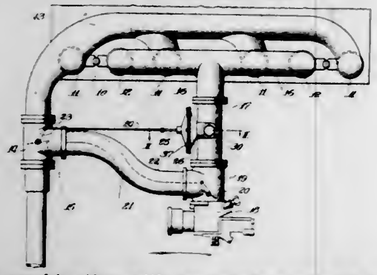
1. A device of the class described comprising an elongated, cylindrical body consisting of a sheet of material fashioned into cylindrical form and disk-shaped end walls formed from sheet material, the peripheral edges of said walls being fashioned to form channels in which the ends of said cylinder are placed and secured, the adjacent edges of said cylinder sheet being spaced apart to form a longitudinal opening therein, said end walls having centrally thereof, inwardly pressed bearing portions, a tubular shaft mounted on the bearing portions of said end walls and rotatable thereon, a strip of material coupled with the shaft and coiled thereon within said cylinder, the free end of the strip extending through the opening in said cylinder, and a coiled spring in said shaft, one end of which is attached to one of said bearing por-

tions and the other end to said tubular shaft for supporting the strip in fully wound position on said shaft and within the cylinder.

1,944,396
HEAT CONTROL FOR MANIFOLDS

Otto Carter Berry, Flint, Mich., assignor to Marvel Carburetor Co., Flint, Mich., a corporation of Illinois

Application June 28, 1930. Serial No. 464,519
1 Claim. (Cl. 123—122)

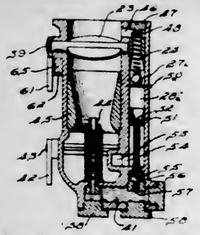


In combination with an intake manifold heating system for internal combustion engines, which system includes a heating jacket enveloping part of the intake manifold and a control valve for adjusting the supply of heat to the heating jacket, of means responsive to suction in the manifold and to the temperature of the air and fuel mixture in the manifold, respectively, connected to operate the control valve, said means comprising a casing in fluid communication with the intake manifold, a movable member in said casing defining a suction chamber therewith, means defining a port to bleed air to the suction chamber, a conduit connecting the suction chamber with the intake manifold, a valve for said conduit, a thermostat positioned exposed to the fuel and air mixture in the manifold and connected to actuate said last named valve when the mixture reaches a predetermined temperature, whereby the balance between air bleed and suction in the suction chamber will be varied in accordance with the desired balance between manifold suction and the mixture temperature to control operation of said movable member.

1,944,397
CARBURETOR

Otto Carter Berry, Flint, Mich.

Application January 27, 1932. Serial No. 589,228
11 Claims. (Cl. 261—56)

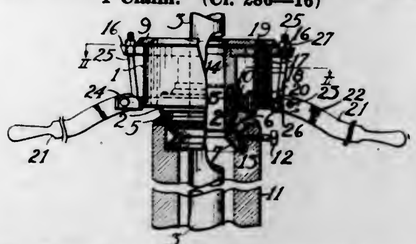


1. In combination with an internal combustion engine and its intake manifold, a carburetor connected with said intake manifold, a throttle control for the main passageway through said carburetor incapable of complete closure against the passage of air therethrough when the engine is in operation, a by-pass structure provided with an opening on the manifold side of said throttle control, a valve seat in said by-pass passageway, a ball valve adapted to cooperate with said seat to prevent any substantial flow through the by-pass passage when said ball valve is in its closed position, and means for yieldingly holding said valve against seating except when the degree of vacuum approaches that at which said engine normally idles.

1,944,398
OIL SAVER

William Otho Bickerstaff, Smithville, W. Va.

Application April 30, 1931. Serial No. 534,002
1 Claim. (Cl. 286—16)

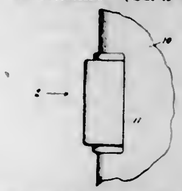


An oil saver comprising a body portion having a bore adapted to receive tubing, a packing gland carrying a continuous annular resilient packing ring mounted for reciprocating movement longitudinally of the bore and within the body portion, the ring and body portion having cam faces adapted to contract the ring upon longitudinal movement of the ring in one direction, resilient means for normally maintaining the ring withdrawn from the cam face of the body portion to uncontracted position, and means for forcing the ring in said direction to contract the ring against the tubing.

1,944,399
WELDER'S MASK

Frederick M. Bowers, Chester, Pa.

Application December 4, 1931. Serial No. 578,895
5 Claims. (Cl. 2—8)



1. A welder's mask comprising an arcuate body part having an opening, a frame member of insulating material having an arcuate part fitting upon the anterior of the arc and having an opening registering with the opening of the body, means having also a registering opening within the arc for securing the frame rigidly to the body part, and means including said last mentioned means to maintain a transparent sheet yieldingly within the securing means.

1,944,400
PROCESS FOR OBTAINING SECONDARY ALCOHOLS FROM ACID LIQUORS

Benjamin T. Brooks, Greenwich, Conn., assignor, by mesne assignments, to Standard Alcohol Company, Wilmington, Del., a corporation of Delaware

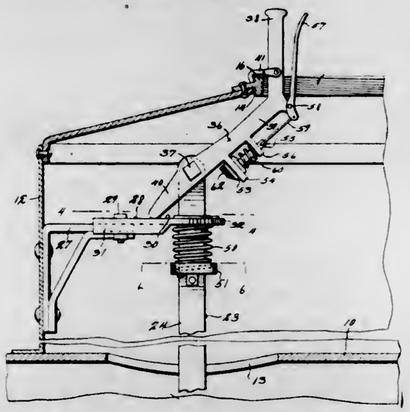
No Drawing. Application May 3, 1932
Serial No. 609,037
13 Claims. (Cl. 260—156)

1. Process of obtaining secondary alcohols of from 3 to 6 carbon atoms to the molecule from acid reaction products formed by treating olefines with aqueous sulphuric acid, which comprises diluting an acid reaction product with water, permitting the diluted reaction product to stratify, thereby forming an aqueous layer and a layer consisting predominantly of hydrocarbons, separating said hydrocarbon layer from said aqueous layer, directly and separately partially distilling said hydrocarbon layer, thereby producing a condensate consisting principally of secondary alcohol with minor proportions of hydrocarbon material, and separating the secondary alcohol contained in said condensate from the associated hydrocarbon material.

1,944,401
OUTLET CONSTRUCTION

Robert M. Callaway, Waco, Tex.

Application June 20, 1931. Serial No. 545,737
2 Claims. (Cl. 137—21)



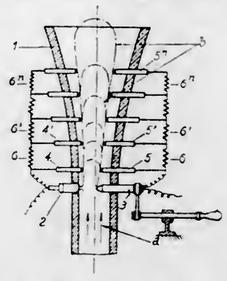
1. In a valve construction including a valve member and an elongated valve stem, means for securing the valve to the stem, a support within which one end of the valve stem is rotatable, said support comprising a bracket, a plate engaging the stem whereby to permit rotary and longitudinal movement of the stem through the plate, a second securing means for securing the plate to the bracket, said second securing means being structurally weaker than said first named means, an operating lever pivoted to the stem, means carried by the lever to impart longitudinal movement to the valve, a toothed ratchet carried by the plate, said teeth being tangentially directed, and a pawl member yieldably carried by the lever and engaging the ratchet upon vertical rocking of the lever in a movement to a substantially horizontal position, said teeth permitting free rotation of the lever in a horizontal plane in one direction, unaccompanied by vertical rocking of the lever, while holding the lever against rotation in the opposite direction in a horizontal plane.

1,944,402
ELECTRIC CIRCUIT-BREAKER WITH COMPRESSED GAS BLOW-OUT

André Clerc, Villeurbanne, France

Application February 9, 1932, Serial No. 591,893,
and in Germany February 9, 1931
2 Claims. (Cl. 200—148)

1. In a circuit breaker, two relatively movable contacts between which an arc is adapted to be struck, means to blow onto said arc a blast of compressed gases perpendicularly to the movable contact displacement, a chimney adapted to surround the arc lengthened by the blast, and electrodes in said chimney having resistances connected therebetween and to one of the contacts, said electrodes being placed behind the contacts

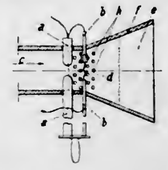


and one after the other, when seen in the direction of blowing, whereby the length of electrodes projecting inside the chimney, their spacing, and the blowing speed are adapted to permit intermediary points of the arc to be blown onto the electrodes and to shunt the resistances by portions of the arc parallel to the blowing direction.

1,944,403
ARC EXTINGUISHING CHIMNEY

André Clerc, Villeurbanne, France

Application March 31, 1932, Serial No. 602,331,
and in Germany May 21, 1931
3 Claims. (Cl. 200—148)



1. Arc extinguishing device, in air, by means of a gaseous blast, comprising chimney means to direct an arc extinguishing gaseous blast, and contacts disposed inside the chimney and between which an arc is adapted to be lengthened said chimney having an inlet opening for the gaseous blast at one extremity and an outlet opening at the other extremity, and auxiliary openings adjacent the arc, to enable part of the gases created by the arc to escape into the atmosphere.

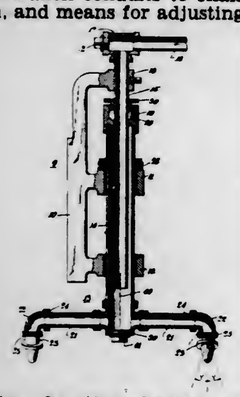
1,944,404
ROTARY ABRASIVE BLAST GUN

David C. Coble and Charles D. Steinmeier, Mishawaka, Ind., assignors to The American Foundry Equipment Company, Mishawaka, Ind., a corporation of Delaware

Application October 29, 1931. Serial No. 571,760
1 Claim. (Cl. 51—11)

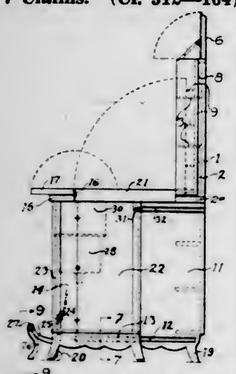
In a self-rotating, abrasive blast gun, a stationary conduit adapted to receive a precarburetted mixture of abrasive and carrying fluid, a rotary element comprising a rotary conduit in line with said stationary conduit and connected thereto, a plurality of branch conduits connected to said rotary conduit, a nozzle on each branch conduit directed at an angle other than parallel or perpendicular to said rotary conduit whereby the reaction of the blast rotates said rotating element, and means for adjusting said nozzles

about said branch conduits to change the speed of rotation, and means for adjusting said nozzles



about the line of motion of said nozzles to change the pattern of the blast.

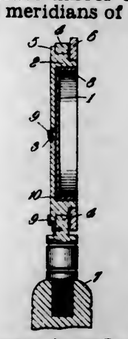
1,944,405
PORTABLE ADJUSTABLE BAR
Ira Copeland, Detroit, Mich., assignor to American Show Case & Manufacturing Company, a corporation of Michigan
Application April 6, 1933. Serial No. 664,762
7 Claims. (Cl. 312—164)



1. In a device of the class described, a cabinet having a back section, including side walls extending forwardly at the lower part thereof, a front section of substantially the height of said side walls and having side walls telescoping over the side walls of said back section, a counter surmounting the forward end of said front section and movable into materially spaced relation to said back section when said forward section is moved forwardly, and narrow leaves each hinged at one end to the lower part of said back section and swingable downwardly over the extended side walls of said sections into endwise abutment with the end portions of said counter to form a U-shaped counter when said sections are relatively extended.

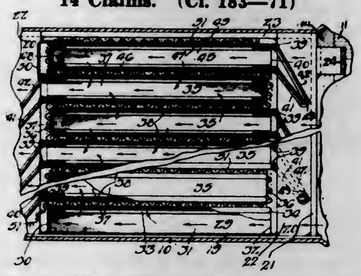
1,944,406
RETINOSCOPE OR LIKE INSTRUMENT FOR ASCERTAINING OBJECTIVELY THE REFRACTION OF EYES
Cecil Richard Crofton, Caernarvon, North Wales
Application May 12, 1932, Serial No. 610,777, and in Great Britain May 12, 1931
4 Claims. (Cl. 88—20)

1. A retinoscope or like instrument for ascertaining objectively the refraction of eyes by aid of light from a source of light, said instrument comprising a concave mirror of toric curvature, the two principal meridians of which are of suit-



able different powers to reflect the light from said source as an astigmatic pencil to form two line foci at different distances and to provide and determine suitable alternative working distances.

1,944,407
AIR FILTER
Verner Dahlman, New Lenox, Ill., assignor to Independent Air Filter Company, Chicago, Ill., a corporation of Illinois
Application December 31, 1930
Serial No. 505,700
14 Claims. (Cl. 183—71)

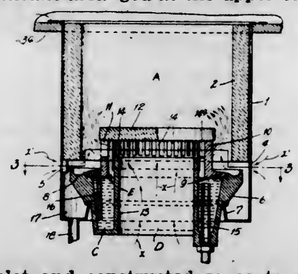


1. An air filter unit comprising a supporting member, spacer elements connected to said supporting member, connecting means intermediate said elements and said supporting member admitting of said elements being arranged in substantial parallelism or angularly in respect to said supporting member, said elements being arranged in two opposed series, the elements of the opposed series being similarly shaped, and reversed, the members of said series being alternately disposed when said filter is in operable condition, and a continuous strip of filter material extending from the bottom of said filter to the top thereof intermediate the elements of the opposed series, the filter material being supported on opposed surfaces by opposed spacer elements.

1,944,408
FUEL BURNER
John A. De Vilbiss, St. Louis, Mo., assignor to G. Ralph Ernst, St. Louis, Mo.
Application December 7, 1932. Serial No. 646,099
8 Claims. (Cl. 158—69)

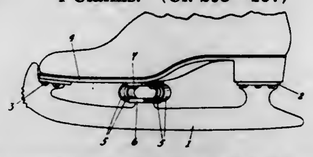
1. A fuel burner, comprising a flame chamber which is in direct communication with the combustion chamber of the apparatus with which the burner is used, a relatively heavy or thick metal member arranged so as to be heated by the heat of the burner and provided with a substantially

annular-shaped fuel chamber that surrounds a main air inlet, a cover plate that forms a restricted outlet for said fuel chamber, and a baffling means arranged at the upper end of said



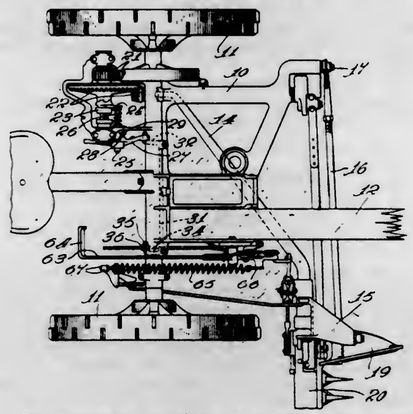
main inlet and constructed so as to cause the main air supply to flow transversely across said restricted outlet and thence into the flame chamber.

1,944,409
SUPPORTING DEVICE ON SKATES, ROLLER SKATES, AND THE LIKE
Robert Deyhle, Zurich, Switzerland
Application August 27, 1932, Serial No. 630,617, and in Switzerland and Germany August 29, 1931
4 Claims. (Cl. 208—167)



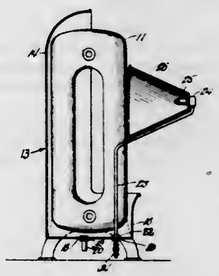
1. A supporting device on skates, comprising in combination with the runner, three independent foot-plates on said runner, the front and rear plates rigidly fixed on the runner and the third plate in the form of a narrow strip arranged transversely and inclined at an angle to the runner, and means for resiliently supporting said middle plate on the runner.

1,944,410
MOWER
Harry S. Dickinson, South Bend, Ind., assignor to Oliver Farm Equipment Company, a corporation of Delaware
Application July 11, 1932. Serial No. 621,791
10 Claims. (Cl. 56—276)



1. In a mowing machine, a main frame, a coupling frame pivotally connected therewith, a lifting arm pivoted to said main frame and connected with said coupling frame, a manually operable lever pivoted to said lifting arm eccentric with respect to said last mentioned pivot, and means for limiting the pivotal movement of said manual lever with respect to said lifting arm.

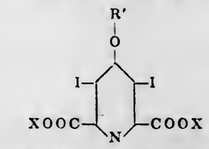
1,944,411
AIR HUMIDIFIER
George D. Doherty, Minneapolis, Minn., assignor to Doherty-Brehm Company, Minneapolis, Minn., a corporation of Delaware
Application March 22, 1926, Serial No. 96,487
Renewed June 9, 1930
10 Claims. (Cl. 237—78)



1. The combination of radiator heating coils with an air humidifying apparatus comprising a funnel-shaped housing, a jet nozzle adapted to direct a spray of moisture upon said radiator heating coils and disposed within said housing at the converged end thereof, a source of water supply for said jet nozzle, a baffle-plate positioned at the rear of said radiator heating coils and extending slightly beyond the top thereof, and a pan provided with a sewer connection lying beneath said radiator heating coils, said housing serving to direct and confine said spray of moisture upon said radiator heating coils.

1,944,412
CHELIDAMIC ACID DERIVATIVE
Max Dohrn, Berlin-Charlottenburg, and Paul Diedrich, Finkenkrug, near Spandau, Germany, assignors to Schering-Kahlbaum A. G., Berlin, Germany
No Drawing. Original application June 17, 1931, Serial No. 545,074, and in Germany December 18, 1930. Divided and this application June 6, 1932. Serial No. 615,756
7 Claims. (Cl. 260—42)

1. Compounds having the formula



wherein R′ is an alkyl or benzyl group and X is a typical hydrogen atom, which may also be replaced by an alkali metal, these compounds, if X is hydrogen, being colorless acids, which dissolve in water only with some difficulty and, when heated, melt under liberation of carbon dioxide, the addition of ferric chloride to the watery solutions resulting in yellow precipitates.

1,944,413

TREATMENT OF CELLULOSE DERIVATIVES

George Holland Ellis, Henry Charles Olpin, and Ernest William Kirk, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application July 20, 1929, Serial No. 379,875, and in Great Britain August 1, 1928

9 Claims. (Cl. 8—5)

1. Process of dyeing materials containing organic substitution derivatives of cellulose, comprising applying a water insoluble coloring matter selected from the group consisting of benzo- and naphthoquinones substituted in the nucleus by at least one group $N.R_1R_2$ wherein R_1 and R_2 represent hydrogen or alkyl groups, the said coloring matter being applied in aqueous dispersion in unreduced form.

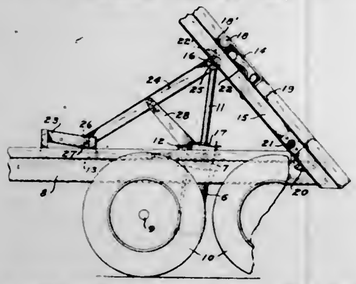
1,944,414

DUMPING MECHANISM

Charles G. Eisenberg, Jr., Wauwatosa, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin

Application October 12, 1931. Serial No. 568,243

7 Claims. (Cl. 298—22)



1. In combination, a frame, a cylinder pivotally suspended from said frame, a rod reciprocable within said cylinder, a body movable relative to said frame by said rod, a lever having one portion pivotally connected to said rod and having another portion slidably associated with said frame, and an arm pivotally connecting said lever with the supporting pivot of said cylinder.

1,944,415

PROCESS FOR MANUFACTURING BASIC ZINC CARBONATE

Martin J. Engberg Highland Park, Ill.

No Drawing. Application November 16, 1929 Serial No. 407,675

9 Claims. (Cl. 23—61)

1. The process of preparing basic zinc carbonate which comprises treating a basic oxygen-containing zinc compound other than a salt with carbon dioxide while suspended in a solution of a zinc salt of a water-soluble organic acid.

1,944,416

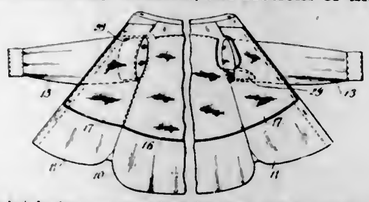
GARMENT

Milton S. Erlanger, Elberon, N. J., assignor to The B. V. D. Company, Inc., New York, N. Y., a corporation of Delaware

Application December 23, 1932 Serial No. 648,551

3 Claims. (Cl. 2—115)

1. A body garment which comprises an outer shirt including a main section, two minor sections, said minor sections being united to the main section along its vertical side edges and having free edges defining an opening and adapted to be connected together when the garment is being worn, a neckband connected to said sections at the top thereof and adapted to have a collar attached thereto, and sleeves attached to said sections along the vertical side edges of the main section, and an undershirt inside the outer shirt and made up of sections the widthwise dimensions of which are substantially the same as the sections of the outer shirt which they underlie, the sections of the undershirt being connected to the outer shirt along the vertical side edges of the main section thereof and along the free edges of the minor sections thereof, said undershirt extending along the front of the outer shirt from a point only slightly below the waistline substantially to the lower edge of said neckband.



1,944,417

HAIR CURLER

Julia L. Everett, Chicago, Ill.

Application January 24, 1933. Serial No. 653,265

5 Claims. (Cl. 132—33)



1. A curler of sheet-like material of substantially uniform thickness provided with a shank and spaced integral projections adapted to have hair wound therebetween, and a hinged fastening arm pivoted at one end of the shank and adapted to extend to the outer end of the nearest projection when in operative position.

1,944,418

DEVICE FOR PROTECTING INTERNAL COMBUSTION ENGINES AGAINST BACK FIRING

Henri Feuillée, Gentilly, France

Application March 23, 1932, Serial No. 600,755, and in France December 14, 1931

5 Claims. (Cl. 123—142)



1. In combination with the fuel supply conduit leading to the cylinder of an internal combustion engine, of a closing member movably mounted in said conduit, and means capable of being deformed by changes in temperature and operatively so connected with said closing member to move the same into closing position upon being subjected to heat above a predetermined temperature.

1,944,419

PROCESS FOR THE FORMATION OF OLEFINES

Per K. Frolich, Cambridge, Mass., and Benjamin C. Boeckeler, St. Louis, Mo.; said Frolich assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 2, 1929 Serial No. 360,000

4 Claims. (Cl. 260—170)

1. An improved process for the treatment of paraffin hydrocarbons heavier than methane for the production of olefines of the same number of carbon atoms without formation of substantial quantities of lower molecular weight olefines, which comprises passing the hydrocarbons through a reaction zone at a temperature between the approximate limits of 450° and 700° C. in contact with a catalyst, composed of a mixture of zinc oxide and chromium oxide, which has been subjected to reducing conditions before coming in contact with the paraffin hydrocarbons.

1,944,420

RECOVERY OF MOLYBDENUM FROM SUBSTANCES CONTAINING MOLYBDENUM OR ITS COMPOUNDS

Johann Giesen and Ernst Peukert, Neurocssen, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany

No Drawing. Application February 6, 1932, Serial No. 591,447, and in Germany February 17, 1931

6 Claims. (Cl. 23—24)

1. In the recovery of molybdenum from a mixture comprising molybdenum and another metal, the step which comprises roasting the said mixture with a gas comprising oxygen at a temperature between 400° and 600° C. and treating the roasted mixture with a solution containing ammonium carbonate.

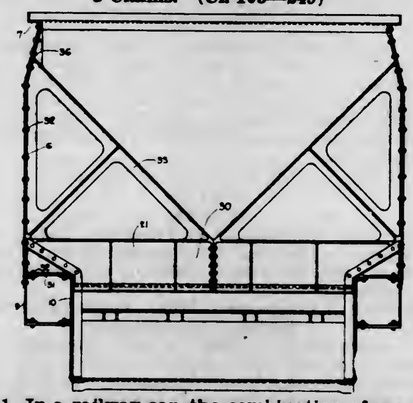
1,944,421

RAILWAY CAR

Garth G. Gilpin, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a corporation of Delaware

Application October 28, 1929. Serial No. 402,936

3 Claims. (Cl. 105—249)



1. In a railway car, the combination of spaced apart side sheets, spaced apart side sills, and a pair of substantially duplicate castings secured together adjacent the center of the car and secured to said side sills to form a cross bearer of the car, each of said castings formed with an integral diagonal brace extending from substantially the center of the car to the upper part of the side sheet to which it is secured.

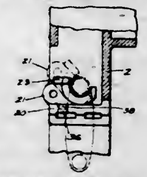
1,944,422

RAILWAY CAR COUPLER POSITIONING DEVICE

Garth G. Gilpin, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a corporation of Delaware

Application September 16, 1931 Serial No. 563,141

3 Claims. (Cl. 213—21)



1. In a railway car, the combination of a coupler, a car part restricting the upward movement of the coupler and provided with a shelf, a coupler carrier, a separate bearing member supported by said shelf and comprising a pair of spaced apart arms connected by a wall, each of said arms provided with a semi-cylindrical bearing, the bottoms of said arms beyond the centers of the bearings being arcuate substantially concentric with said bearings, the depth of said bearings being greater than the upward movement of the coupler, a link provided with a trunnion adjacent to its upper end engaging said bearings, said link being pivotally connected to one end of said carrier and means to attach the bearing member to the car part whereby after the attaching means have been removed, the bearing member may be removed from the car part by an arcuate movement thereof without removing the link from the car part.

1,944,423

RECOVERY OF IODINE

Charles W. Girvin, Long Beach, Calif., assignor, by direct and mesne assignments, to General Salt Company, Long Beach, Calif., a corporation of California

No Drawing. Application March 5, 1927 Serial No. 173,221

2 Claims. (Cl. 23—217)

1. The process of recovering iodine in combined form from a brine which contains iodine in other combination, which comprises: liberating the iodine from combination in the brine, adsorbing the free iodine on charcoal, separating the charged charcoal by sedimentation while maintaining the supernatant liquid slightly acid and then recovering the iodine from the charcoal in chemical combination, by subjecting the iodine adsorbed by the charcoal to the action of an acid reducing agent adapted to react with the iodine to form hydriodic acid and to form an acid solution containing the charcoal in suspension, and separating the charcoal from the solution by sedimentation.

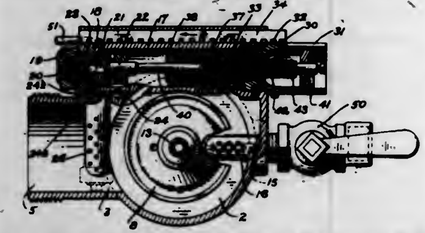
2. The process of recovering iodine in combined form from iodine adsorbed in pulverized charcoal which consists in producing a suspension of such charcoal with adsorbed iodine in a solution containing an acid reducing agent capable of reacting with the iodine to form hydriodic acid, and then separating the pulverized charcoal from such solution by sedimentation while maintaining the solution in acid condition.

1,944,424

HIGH PRESSURE REDUCING VALVE

William H. Gleeson, San Francisco, Calif.

Application May 24, 1932. Serial No. 613,237
3 Claims. (Cl. 50—12)



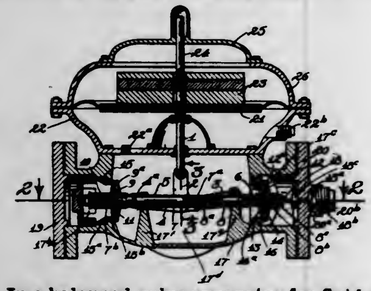
1. A high pressure reducing valve comprising a casing having a low pressure discharge chamber formed therein and a high pressure inlet connection in communication therewith, a valve seat between the inlet and the low pressure discharge chamber, a valve movable to and away from the seat to control the flow of high pressure water from the inlet into the low pressure discharge chamber, a small and a large piston, a common piston rod connecting both pistons with the valve, a small and a large cylinder in which the pistons operate, said large piston dividing the large cylinder into an upper and a lower chamber, means for maintaining high inlet water pressure in the small cylinder so as to maintain a pressure on the small piston which substantially counterbalances the high inlet pressure on the valve, means for directing water under high inlet pressure into the lower chamber of the large cylinder, means for automatically maintaining a predetermined pressure in said lower chamber, means for maintaining discharge chamber pressure in the upper chamber of the large cylinder, and means for automatically increasing the pressure in the lower chamber of the large cylinder if the pressure in the discharge chamber exceeds the predetermined pressure in the lower chamber of the large cylinder.

1,944,425

BALANCED VALVE APPARATUS FOR FLUID REGULATORS

Otto B. Goldkamp, San Diego, Calif., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif., a corporation of California

Application August 14, 1931. Serial No. 556,992
6 Claims. (Cl. 50—26)



1. In a balanced valve apparatus for fluid regulators, a pair of valves connected to a common shaft, toggle means for operating said valves simultaneously and a casing for said valves with spaced conductors for conducting fluid to said valves in opposite directions, whereby the pressure on said valves is balanced, means for adjusting the relative position of said valves from the outside of said casing, and means for locking said valves in their adjusted relative positions.

1,944,426

SHEAVE FOR WIRE CABLES

Herald B. Greening, Hamilton, Ontario, Canada, assignor to Galloway Engineering Company Limited, Hamilton, Canada

Application December 12, 1931
Serial No. 580,639
9 Claims. (Cl. 64—17)



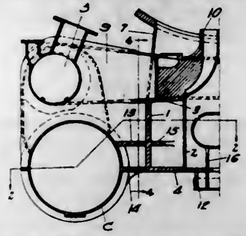
1. A sheave for wire cables having a circumferential groove presenting cable supporting surfaces at either side of the median plane and spaced therefrom conforming in curvature to the cross sectional curvature of the cable, and an endless band of rubber embedded in the space between said curved surfaces and engaging and resiliently supporting the central inside peripheral portion of the cable without distortion coincident with the support of the spaced curved surfaces.

1,944,427

LOCOMOTIVE STRUCTURE

Einar G. Hallquist, Edwardsville, Ill., and William C. Krautheim, St. Louis, Mo., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application April 11, 1932. Serial No. 604,392
16 Claims. (Cl. 105—44)



1. A locomotive saddle structure including a side wall, a main steam cylinder adjacent said wall, and a connection between said wall and said cylinder including vertically spaced members extending substantially the length of said cylinder, the space between said members being open from end to end.

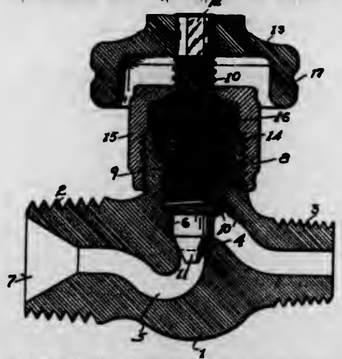
1,944,428

VALVE

George L. Hammon, San Francisco, Calif., assignor to National Welding Equipment Company, San Francisco, Calif., a corporation of California

Application December 7, 1929. Serial No. 412,554
1 Claim. (Cl. 251—50)

A valve having a body; a neck extending upward from said body; a ring seated in the top of said neck; an adjustable packing cap threaded on said neck and internally tapered at its upper end; a yielding packing in said cap interposed between the internally tapered end thereof and said ring; a valve stem having threads engaging said packing and an enlarged threaded portion engaging said body, the end of said stem engaging a seat in said body smaller in diameter than said enlarged threaded portion; a handle riveted



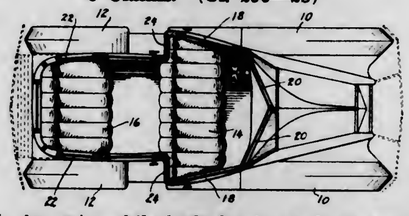
to the upper end of said stem; and an integral flange depending from said handle and overhanging said cap.

1,944,429

AUTOMOBILE BODY CONSTRUCTION

Earl P. Hartry, St. Paul, Minn., assignor of one-half to Russell Sabor, Minneapolis, Minn.

Application August 14, 1929, Serial No. 385,863
Renewed March 3, 1933
6 Claims. (Cl. 296—28)



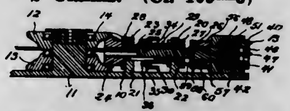
1. An automobile body having a front seat, a rear seat, front side walls at opposite ends of the front seat converging from rear to front, rear side walls at opposite ends of the rear seat terminating at the rear of the front seat substantially inwardly of the ends thereof and of the adjacent front side walls and windows at the rear of the front seat at each end between the front side walls and the rear side walls.

1,944,430

SAFE

Anton Hofer and Felix Danninger, Milwaukee, Wis., assignors to Edward J. Kastenholz, Milwaukee, Wis.

Application December 16, 1932
Serial No. 647,524
2 Claims. (Cl. 109—3)



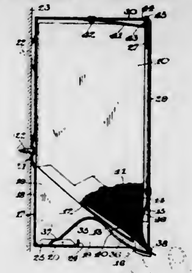
2. In a safe structure, a hollow shaft, bearings rotatably supporting the shaft, said shaft having longitudinally extending slots, an operating shaft slidably mounted within the hollow shaft, a sleeve slidably mounted on the hollow shaft, pins connecting the sleeve and operating shaft together extending through said slots, one of the bearings and sleeve carrying a coacting locking lug and slot, whereby the sleeve and operating shaft are normally held against rotation, a key-operated lock embodying a rotatable barrel, a spiral shaft connected to the barrel, and a travelling nut on said spiral shaft, means rigidly connecting the operating shaft and nut together, and guide pins carried by the sleeve and received within openings formed in said nut.

1,944,431

PAPER CUP DISPENSER

Samuel N. Hope, Wauwatosa, and Paul Drath, West Allis, Wis., assignors to Griffith-Hope Company, West Allis, Wis., a corporation of Wisconsin

Application July 8, 1932. Serial No. 621,366
5 Claims. (Cl. 312—60)



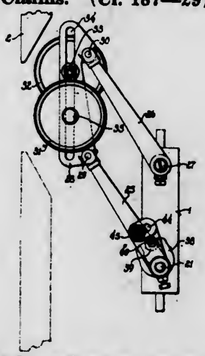
1. A dispenser for sheets such as folded paper cups and the like, comprising a casing adapted to receive a pack of sheets therein, a closure pivotally secured to said casing and having converging walls defining a discharge slot towards which the pack of sheets is urged and through which the sheets are withdrawn edgewise, and resilient means engageable with edge portions of the leading sheets adjacent said discharge slot and resisting inward pressure exerted on the faces of said sheets by the withdrawal of the foremost sheet through said discharge slot.

1,944,432

CONTROL APPARATUS FOR ELECTRIC ELEVATORS

Richard B. Hunter, Shorewood, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

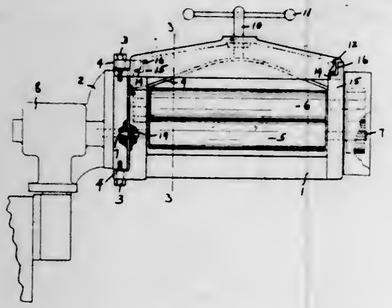
Application July 17, 1930. Serial No. 468,585
12 Claims. (Cl. 187—29)



1. In a control mechanism for electric elevators, the combination with a cam element for

mounting upon an elevator car, of means for supporting said element against vertical movement with respect to the elevator car, and operating means for said element including a toggle mechanism operable to move said element laterally to effect projection and retraction thereof with respect to the elevator car.

1,944,433
SAFETY CLOTHES WRINGER
Walter L. Kauffman, 2d, Youngstown, Ohio
Application June 19, 1930. Serial No. 462,282
3 Claims. (Cl. 68—32)



1. In a device of the class described, a wringer including a frame and having rolls mounted in said frame, vertically spaced support members formed on one end of said frame, a supporting bracket, pivot lugs passing through said support members and secured to said bracket, means for releasing tension upon the wringer rolls by moving the wringer backward or forward in an arc about the axis of said pivot lugs, the axis of said lugs lying in the plane passing through the axes of said rolls, a rotary shaft extending through said supporting bracket and into said frame for transmitting power to one of said rolls, said shaft being formed in two aligned sections each having a plurality of parallel ridges and depressions formed on the joined ends of said rotary shaft for the purpose of forming a clutch, one of said sections being mounted in said supporting bracket and the other of said sections being mounted in said frame and said joined ends being between said frame and the axis of said pivot lugs whereby the sections of said rotary shaft may be disengaged by swinging said wringer backward or forward about the axis of said pivot lugs.

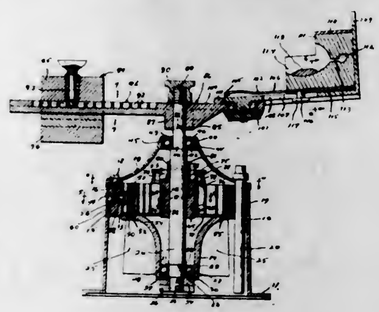
1,944,434
BAILER
Edgar D. Keeler, Long Beach, Calif.
Application November 7, 1932. Serial No. 641,550
9 Claims. (Cl. 166—19)

1. In an apparatus of the character described, a valve mechanism for connection at an intermediate point in a drill string and comprising relatively telescopic tubular members, an air and fluid tight chamber in the drill string above said valve mechanism, a valve at the lower end of the lowermost of said telescopic members, a fluid passage thru both of said members extending from said valve to said chamber, said valve opening downwardly and being adapted to close the lower end of said passage to prevent passage of fluid therethru, means carried by the uppermost of said telescopic members adapted upon relative telescopic movement of said members to



open said valve and permit passage of fluid into said chamber.

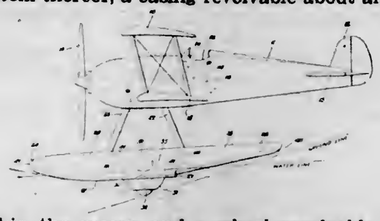
1,944,435
CASTING MACHINE
Robert M. Kerr and Hulbert A. Wolfe, Detroit, Mich., assignors to Detroit Dental Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application August 17, 1931. Serial No. 557,658
5 Claims. (Cl. 22—65)



1. In a casting machine of the class described, a substantially cylindrical casting having an inwardly extending flange adjacent the upper end thereof, a plate removably supported on said flange within said casting, a spring supported on said plate and having its one end anchored to said casting, a vertically positioned shaft having its lower end extending through said plate and within said casting, and means forming a driving connection between the other end of said spring and said shaft.

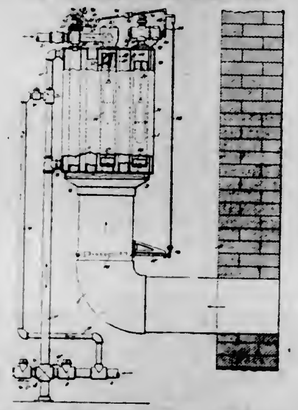
1,944,436
AIRCRAFT
Harold C. King, Bronxville, N. Y.
Application July 28, 1931. Serial No. 553,523
14 Claims. (Cl. 244—2)

1. A landing gear for aircraft including in combination a pontoon having a recess in the bottom thereof, a casing revolvable about an axis



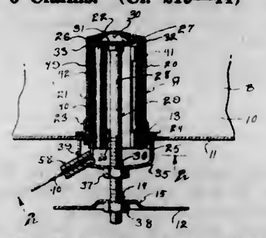
within the recess, and a wheel revolvable with said casing.

1,944,437
BOILER RETURN AND VACUUM TRAP
Stanley F. Knefel and Raymond A. Knefel, St. Louis, Mo.
Application August 10, 1933. Serial No. 684,528
6 Claims. (Cl. 103—252)



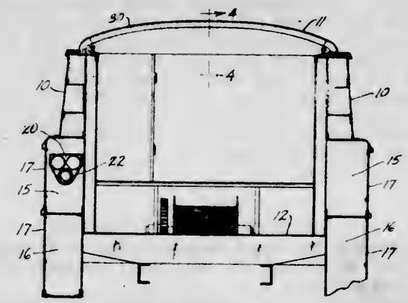
1. A device of the character described comprising a combined condenser and vacuum trap, a valve for admitting live steam into said condenser and trap, a pipe for discharging water into and conducting water from said condenser and trap, a thermostatic device, connections from said thermostatic device to said valve for opening and closing said valve, and a valve operated by water discharged into said tank from said pipe controlling operation of said thermostatic device.

1,944,438
PERCOLATOR HEATER
Alantser F. Larsen, Manitowoc, Wis., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis.
Application July 1, 1932. Serial No. 620,311
6 Claims. (Cl. 219—44)



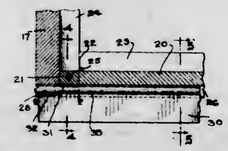
1. In an electric heating device, the combination of a vessel having a wall provided with an opening, a protecting shell arranged within the vessel having a flange engaging the inner face of the wall and an apron extending through the opening, a bolt extending longitudinally through the shell having its head loosely connected with the shell whereby the bolt is free for limited swinging movement, an electric heating element within the shell surrounding the bolt, a retaining cap having an opening receiving the bolt, means on the bolt for holding the cap in intimate contact with the outer face of the wall and the flange in contact with the inner face of the wall, a shield plate having an opening receiving the bolt, and means on the bolt for retaining the shield plate in position.

1,944,439
MOTOR VEHICLE BODY CONSTRUCTION
Neil P. Larsen, Cleveland, Ohio, assignor to American Coach and Body Company, Cleveland, Ohio, a corporation of Ohio
Application April 12, 1933. Serial No. 665,769
4 Claims. (Cl. 296—24)



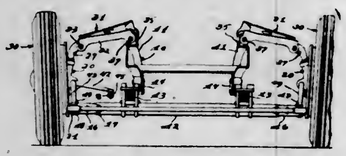
1. A vehicle having a cab and a body at the rear thereof, the body having a tool compartment on the side thereof and a hollow member extending completely through the compartment in a direction longitudinally of the body and below the normal level of the line of vision of a driver in the cab, said member providing a passageway for supporting articles, longer than the body, within the lateral confines of the compartment.

1,944,440
SHOWER BATH STALL DOOR, SHOWER BATH SHIELD, AND THE LIKE
Louis H. Lehman, Philadelphia, Pa.
Application December 14, 1929
Serial No. 413,971
5 Claims. (Cl. 189—46)



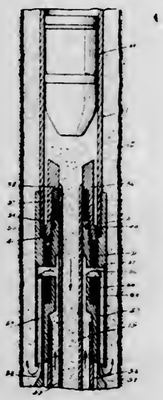
5. In a shower enclosure, in combination, a door having a longitudinally extending groove in one edge thereof, a flexible seal adapted to be longitudinally inserted within said groove, and wedging means adapted to be inserted within said groove for precluding longitudinal displacement of said seal from said groove.

1,944,441
INDEPENDENT WHEEL SUSPENSION
Earle S. MacPherson, Grosse Pointe Park, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a corporation of Virginia
Application January 30, 1933. Serial No. 654,312
18 Claims. (Cl. 280—124)



1. A motor vehicle having in combination, a frame, an axle extending transversely of the frame beneath the same, springs operatively connecting opposite end portions of the axle to the frame, wheel carrying members pivotally connected at the lower ends thereof to the ends of the axle for swinging movement relative to the latter about axes extending fore and aft of the frame, and means interconnecting the upper ends of the members to the frame including links having the outer ends pivotally connected to said members and having the inner ends pivotally connected to the frame with the axes of the latter connections spaced inwardly beyond the outer sides of the frame.

1,944,442
CEMENTING APPARATUS
Sanford E. Manning, deceased, late of Houston, Tex., by Mrs. S. E. Manning, administratrix, Houston, Tex.
Application July 6, 1931. Serial No. 548,817
17 Claims. (Cl. 166—1)



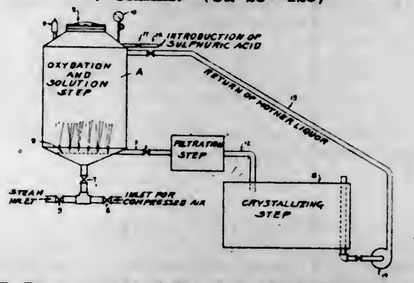
1. The combination with a tubular setting string and a screen attached thereto, of expansible containers one above and the other beneath the screen, a conducting tube through which cementitious material may be conducted down through the screen, packing about said tube above and beneath the screen, there being passageways leading from said tube into the lower container and into the well bore beneath said lower container and return channels leading from the bore beneath said lower container into the upper container.

1,944,443
APPARATUS AND METHOD OF COMPLETING A WELL
Sanford E. Manning, deceased, late of Houston, Tex., by Mrs. S. E. Manning, administratrix, Houston, Tex.
Application July 6, 1931. Serial No. 548,818
13 Claims. (Cl. 166—21)



1. In completing a well, the process which consists in lowering a tubular string with screen attached to the bottom of the hole, closing the space above the screen outside of said string, then forcing fluid laden with coarse aggregate through the string and filling the space around the screen with said aggregate and returning the fluid back up through the string.

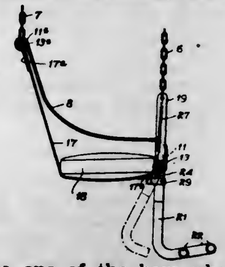
1,944,444
PRODUCTION OF COPPER SULPHATE IN SOLUTION FROM METALLIC OR SCRAP COPPER AND DILUTE SULPHURIC ACID
Daniel W. Marsh and Benjamin H. Marsh, Oakland, Calif.
Application July 1, 1931. Serial No. 548,160
7 Claims. (Cl. 23—125)



7. In a process of dissolving metallic copper in sulphuric acid which comprises suspending metallic copper in dilute sulphuric acid, and acting upon said reaction mixture with an oxygen containing gas, the step of maintaining the reaction mixture at super-atmospheric pressure and at an elevated temperature.

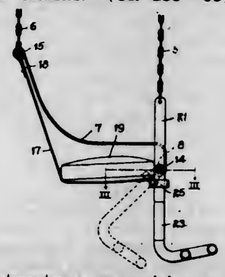
1,944,445
SWING
William R. McGowen, Pittsburgh, Pa., assignor to The McKay Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 16, 1932. Serial No. 605,659
6 Claims. (Cl. 155—65)

1. Swing structure comprising a seat, flexible suspending members for the rear side of the seat, suspending bars pivotally connected to the seat near the front side thereof, means flexibly suspending said bars, levers pivotally connected to the seat on axes coincident with the axes of the said bars, means detachably locking each of



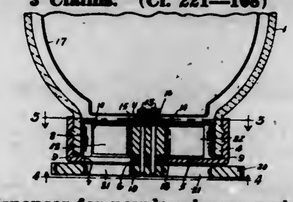
the levers to one of the bars whereby oscillation of the levers will effect oscillation of the bars, a foot rail carried by the said levers, and means for automatically releasing the locking means when pressure is released from the foot rail.

1,944,446
SWING
William R. McGowen, Pittsburgh, Pa., assignor to The McKay Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 27, 1932. Serial No. 613,839
4 Claims. (Cl. 155—65)



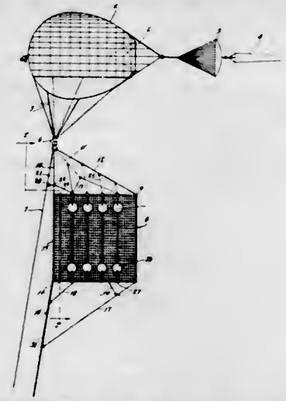
1. Swing structure comprising a seat frame, suspending members for the front and rear sides of the frame, a hanger bar connected at one of its ends to a suspending member and pivotally connected to the frame, an operating lever pivotally connected to the frame and movably connected to the said bar, and a stop device limiting movement of said lever in one direction relative to the bar, including yieldable means for resisting movement of the lever in the opposite direction.

1,944,447
SOAP DISPENSER
Cleophas McVicker, Cincinnati, Ohio
Application November 4, 1931. Serial No. 572,986
3 Claims. (Cl. 221—106)



1. A dispenser for powdered soap and comprising a container having an open bottom, a cover attachable to the bottom and having an aperture therein, an inverted cup member fixed within the container upon the cover and having a soap inlet aperture disposed above an unapertured portion of the cover, a carrier positioned within the cup member and fixed upon an axis projecting through the cover and cup member, said carrier having compartments for embracing unit quantities of the soap normally deposited upon the cover through said inlet aperture, a soap agitator fixed to said axis above the cup member in the container, and a wheel fixed upon said axis exteriorly of the cover and adapted upon rotation to effect similar rotation of the carrier whereby the compartments thereof are moved successively into registration with the cover aperture to effect dispensing of the unit quantities of soap.

1,944,448
ADVERTISING APPARATUS
Kenneth N. Moir, Los Angeles, Calif., assignor, by mesne assignments, to Aerial Advertising Company, Inc., San Francisco, Calif., a corporation of Nevada
Application June 9, 1928, Serial No. 284,030
Renewed April 24, 1933
16 Claims. (Cl. 40—127)

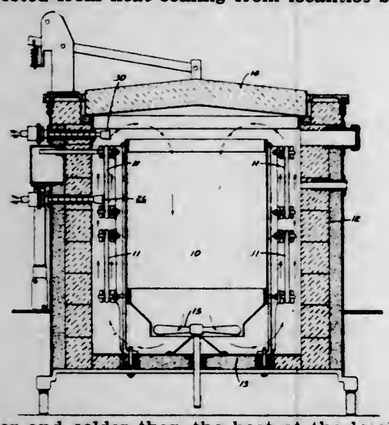


1. An advertising apparatus comprising an aerial vehicle, an anchor line for said vehicle, an advertising device suspended from said vehicle by means of guy lines, a separate control line connected to the lower portion of said advertising device, and means connecting one of said guy lines with the anchor line.

1,944,449
METALLURGICAL APPARATUS
James R. Munro, San Leandro, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application April 1, 1931. Serial No. 526,855
5 Claims. (Cl. 263—1)

1. A metallurgical furnace having walls forming a heating chamber in which the temperature varies at different localities, a heated element positioned within said furnace, a heat detecting device mounted within said furnace, said heat detecting device having a heat sensitive portion adjacent said element but spaced therefrom, and a shield enclosing said heat sensitive portion, said shield forming a walled enclosure defining a recess open only toward said element to allow heat radiated from said element to act on said heat sensitive portion, the walled portion of said shield projecting beyond said heat sensitive portion so

that said heat sensitive portion is positioned within the outer edge of said walled portion and is protected from heat coming from localities both



hotter and colder than the heat at the locality at which said element is positioned, whereby said heat sensitive portion is affected only by the heat from said element.

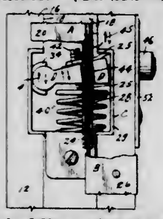
1,944,450

SASH CONTROL FOR SLIDING WINDOWS

Bon E. Myers, Sioux City, Iowa, assignor to Sioux Metal Products Company, Sioux City, Iowa, a corporation of Iowa

Application August 13, 1932. Serial No. 628,687

11 Claims. (Cl. 292—224)



1. In a sash holding structure, weatherstrip elements adapted to be mounted on a frame member, weatherstrip elements adapted to be mounted on a sash member, one of said elements having a channel and the other having a part slidably projected into the channel for guiding and positioning the sash, a gripping bar adapted to be mounted on the member having the part having a slot to receive the channel portion of the weatherstrip, said latching bar being mounted to rock toward and from horizontal position, it being so arranged that when in horizontal position it will not bind the weatherstrip elements, but when rocked out of horizontal position, it will tend to bind the weatherstrip channel between the opposite faces of its slot, the movement of the sash upward tending to move the bar to horizontal position and the downward movement of the sash tending to move the bar to gripping position.

1,944,451

INFANT'S AND CHILD'S RESTRAINING JACKET

Horace L. Newman, New York, N. Y.

Application January 17, 1933. Serial No. 652,207

7 Claims. (Cl. 128—134)

1. A restraining garment for infants and children, said garment having sleeves closed at their outer ends, cuffs for said sleeves forming pockets open at their inner ends, and stiffening



means in said pockets disposed about portions of the sleeves surrounding a person's hands when the garment is worn.

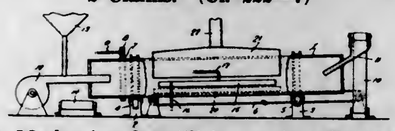
1,944,452

APPARATUS FOR TREATING SLURRY

Erie J. Ochs, Painesville, Ohio

Application December 2, 1930. Serial No. 499,488

2 Claims. (Cl. 222—7)



1. Mechanism for utilizing waste radiated heat from the calcining kiln for making cement comprising a rotary cylindrical calcining kiln having a portion of its outer surface smooth and free of rivet heads and other obstructions, a slurry box for depositing a coating of slurry on the upwardly moving portion of the rotating kiln, a spring pressed dam hinged to the slurry box and resiliently contacting the rotating kiln, a scraper contacting the smooth portion of the kiln to remove the dried coating of slurry from the kiln, and a conveyor upon which the dried slurry scraped from the kiln falls, for conveying the preliminarily dried slurry to and feeding it into the receiving end of the kiln.

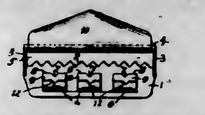
1,944,453

WEBBING BUCKLE

Wilbur E. Olmstead, Bridgeport, Conn., assignor to William E. Hatheway, Bridgeport, Conn.

Application October 9, 1931. Serial No. 567,778

2 Claims. (Cl. 24—184)



1. A webbing buckle back formed of a single piece of metal having an elongated transverse opening and having webbing holding teeth formed on one edge thereof and set at an obtuse angle with respect to the upper surface of the back, a clamping lever supporting bar forming the opposite edge of the opening and having side supporting arms therefor, spaced webbing holding clamps and prongs pierced from the back and projecting below the same for anchoring the end of the webbing to the underside of the back.

1,944,454

PNEUMATIC CURTAIN CONTROL FOR MOTOR CARS

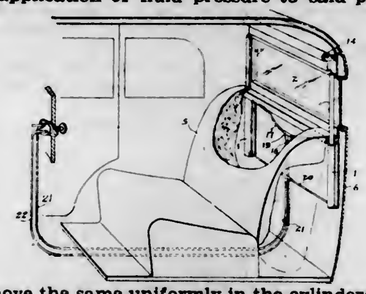
Thomas Park, Long Branch, Ontario, Canada

Application February 6, 1933. Serial No. 655,411

8 Claims. (Cl. 156—28)

1. A pneumatic curtain control for motor cars, comprising the combination with the curtain, of a pair of cylinders mounted one at each side of said curtain, a piston reciprocable in each of said

cylinders, valve means controlling simultaneously the application of fluid pressure to said pistons



to move the same uniformly in the cylinders, and means operatively connecting said pistons individually to the respective sides of said curtain.

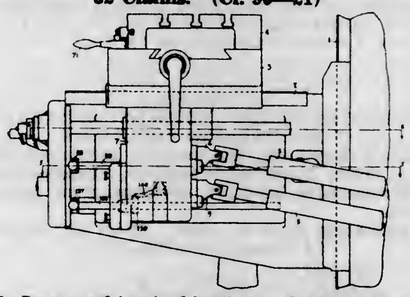
1,944,455

MACHINE TOOL TRANSMISSION AND CONTROL MECHANISM

Fred A. Parsons, Milwaukee, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis.

Application February 17, 1926. Serial No. 88,806

32 Claims. (Cl. 90—21)



1. In a machine tool having a plurality of movable supports the combination of a plurality of clutch members, a driving connection for one of said clutch members including a feed rate changer, a driving connection for the other of said members including a device selectively shiftable to produce two rapid traverse rates, clutch means shiftable to connect with the one or the other of said members, and transmission mechanism connectible from said clutch means to each of said supports.

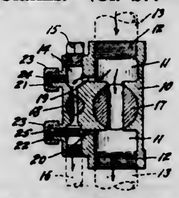
1,944,456

VALVE CONSTRUCTION

Carl A. Pearson, Denver, Colo.

Original application September 21, 1931, Serial No. 563,995, now Patent No. 1,898,569. Divided and this application March 17, 1932. Serial No. 599,477

3 Claims. (Cl. 277—53)



1. A reversible, composite, main and pilot valve comprising: an integral valve housing; a main passage formed in said housing; pipe receiving threads at each extremity of said main passage for receiving the pipes of the main supply line; a pilot passage formed in said housing adjacent said main passage; pipe receiving threads at each extremity of said pilot passage so that a pilot supply pipe may be threaded into either desired extremity and so that a threaded plug may be threaded into the remaining extremity of said pilot passage to close the latter; a main valve member controlling the flow through said main passage; a pilot valve member controlling the flow through said pilot passage; two by-pass passages formed in said housing communicating between said main and pilot passages at each side of said main and pilot valve members; nipples projecting from said housing opposite each of said by-pass passages, said nipples being externally and internally threaded; a needle valve designed to be threaded into the internal threads of either of said nipples to close the opposing by-pass passage; and threaded caps engaging the external threads on said nipples and sealing the external opening of the same.

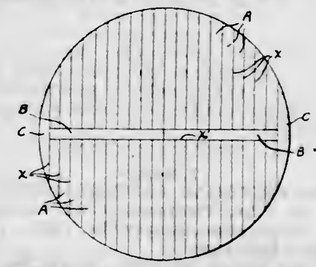
1,944,457

METALLIC PROTECTIVE SHEATHING FOR SURFACES AND METHOD OF APPLYING METAL FOIL

Harry F. Perkins, Clayton, Mo., assignor to Metalfoils, Incorporated, St. Louis, Mo., a corporation of Missouri

Application June 6, 1931. Serial No. 542,545

8 Claims. (Cl. 108—6)



7. A method of covering a surface, characterized by applying a key strip of metal foil to an intermediate portion of said surface so as to divide said surface into a plurality of zones, and thereafter covering said zones with parallel strips of foil disposed at an angle to said key strip and running inwardly from the outer edge of said surface to said key strip.

1,944,458

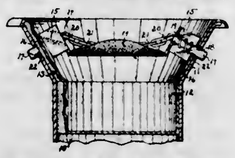
LID FOR MILK CANS OR LIKE

Lester A. Perkins and Albert C. Wilson, Centerville, Iowa

Application September 19, 1932

Serial No. 633,795

5 Claims. (Cl. 220—55)



1. In combination with a milk can having two holes in the side of its filling opening and a lid therefor, a one-piece handle member comprising

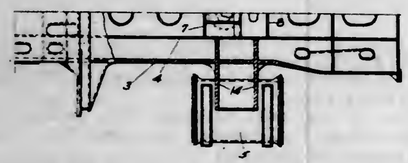
a central trough portion and an inverted U-member at each end; said inverted U-members being secured to said milk can lid, a plunger slidably mounted in each of said inverted U-members capable of entering and engaging said two holes respectively in said milk can when said lid is on said can, a coil spring for yieldingly holding each of said plungers in engagement with said holes, and a chain normally resting in the central trough portion of said handle member having its two ends connected to said plungers respectively for facilitating the manual movement of said plungers out of engagement with said holes and against the action of said coil springs.

1,944,459

LOCOMOTIVE STRUCTURE

Harry M. Pflager, St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application April 18, 1932. Serial No. 605,847
22 Claims. (Cl. 105—44)



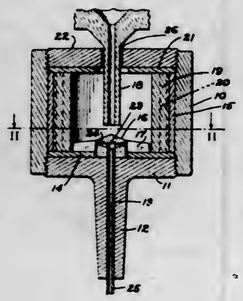
1. A locomotive underframe structure comprising a base member, a main steam cylinder at the side thereof, and a connection between said member and cylinder intermediate the ends of said cylinder, a substantial portion of said cylinder being spaced longitudinally of said member from said connection and free to expand without affecting the latter.

1,944,460

CENTRIFUGAL CASTING DEVICE

Robert D. Pike, Piedmont, Calif., assignor to Kalif Corporation, Emeryville, Calif., a corporation of Delaware

Application March 26, 1930. Serial No. 439,059
3 Claims. (Cl. 22—65)



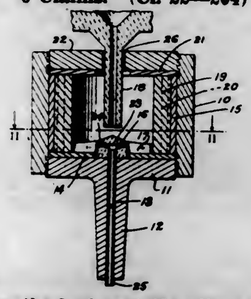
2. For centrifugal casting, a mold having an upstanding wall and a horizontal plate and being rotatable about a vertical axis, upstanding radial-like projections on said plate forming radial-like passages between them and forming a central well, an upstanding projection centrally of said well, and means for rotating all said parts at the same speed.

1,944,461

METHOD OF CENTRIFUGAL CASTING

Robert D. Pike, Diablo, Calif., assignor to Kalif Corporation, Emeryville, Calif., a corporation of Delaware

Original application March 26, 1930, Serial No. 439,059. Divided and this application January 19, 1932. Serial No. 587,464
6 Claims. (Cl. 22—204)



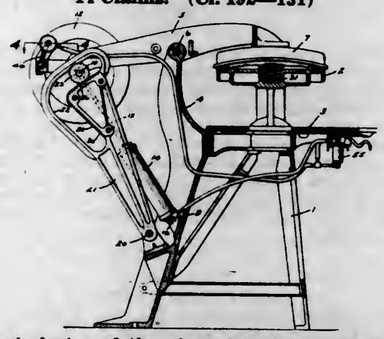
1. The method of centrifugally casting bushings of a copper-lead alloy which consists in heating a centrifugal mold assembly from 150° to 300° C. and rotating the latter so as to impart a centrifugal effect of from 4,000,000 to 10,000,000, and pouring into said mold while rotating a molten alloy of copper-lead containing not less than 25% lead at a temperature of from 1204° to 1250° C.

1,944,462

FLUID PRESSURE CONTROL APPARATUS FOR PRESSING MACHINES

John F. Raynolds, Minneapolis, Minn., assignor to The Unipress Company, Incorporated, Minneapolis, Minn., a corporation of Minnesota

Application June 16, 1930. Serial No. 461,394
14 Claims. (Cl. 192—131)



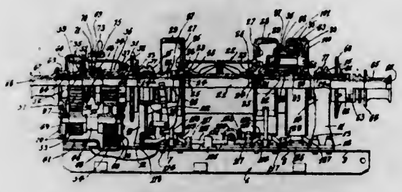
1. A device of the class described including a movable member and fluid-operable means for controlling it, fluid-operable brake means for controlling said movable member, a valve-controlled pressure system and means associated therewith and adapted for controlling both of said fluid-operable means, including valves and two manually movable elements initially operable for controlling said valves to operate said movable member, and in which if one of said manual means is moved from its initial control position during motion of said movable member in one direction, pressure to the fluid-operable means controlling said member is cut off, and is applied to said brake control means to apply the brakes and prevent continued motion of said movable member, in the same direction.

1,944,463

SINGLE SHAFT GEAR DRIVEN DRAWWORKS

Allen Erwin Rice, Palos Verdes, and John Shelby Morgan, Jr., Inglewood, Calif., assignors to The National Supply Company, Toledo, Ohio, a corporation of Ohio

Application June 29, 1931. Serial No. 547,588
16 Claims. (Cl. 255—19)



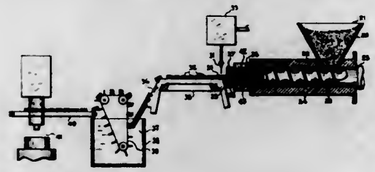
1. In a rotary drawworks, the combination of a shaft, means for rotatably supporting the shaft, a hoisting drum mounted on the shaft, means mounted on one end of the shaft for driving the shaft at variable speeds, a rotary table drive sprocket mounted on the other end of the shaft, and means for releasably clutching the rotary drive sprocket to the shaft.

1,944,464

ART OF TREATING PLASTIC MOLDING COMPOSITIONS INCLUDING A FIBROUS FILLER AND AN ORGANIC BINDER

Linwood T. Richardson, Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer Inc., a corporation of Delaware

Application March 28, 1928. Serial No. 265,397
9 Claims. (Cl. 18—55)



1. The process of treating cold-moldable plastic composition material to provide articles adapted for the electric insulating art, which comprises intimately mixing a fibrous filler and an organic binder in predetermined proportions, extruding the mixture to form a continuous strip of material of predetermined mass or density per unit length, then dividing said strip transversely into blanks of predetermined length, and then cold-molding the blanks under heavy die pressure to provide articles of the desired shape and dimensions.

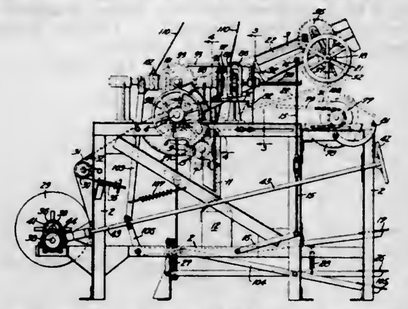
1,944,465

MACHINE FOR MAKING TUBES

Leland S. Rosener, San Francisco, Calif., assignor to Plant Rubber & Asbestos Works, San Francisco, Calif., a corporation of California

Application August 21, 1931. Serial No. 558,464
6 Claims. (Cl. 93—31)

1. In a machine for making tubes from sheet material, a mandrel, means for holding a supply roll of said material, means for guiding the sheet from the supply roll to the mandrel, means for rotating the mandrel to wrap the sheet into a tube, and signal means operable after a predetermined number of revolutions of the mandrel for indicating the number of wraps.

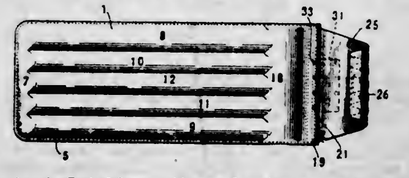


1,944,466

PNEUMATIC MATTRESS

Benjamin Charles Rubin, New York, N. Y.

Application January 7, 1931. Serial No. 507,073
5 Claims. (Cl. 5—348)



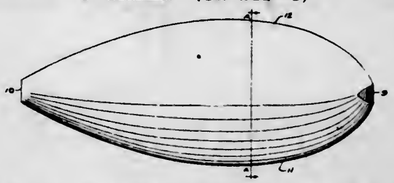
1. An inflatable mattress having a main body portion, an inflating bellows attached to one end thereof, an air sealing device permanently secured to the bellows, means for opening and closing the sealing device, said bellows adapted to be rolled upon itself to inflate the mattress and means for securing the bellows at the end of the mattress when so rolled.

1,944,467

GAS BAG ENVELOPE FOR AIRCRAFT

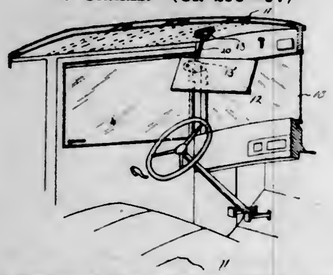
Elmore E. Sabin, Oakland, Calif.

Application October 29, 1931. Serial No. 571,827
3 Claims. (Cl. 244—3)



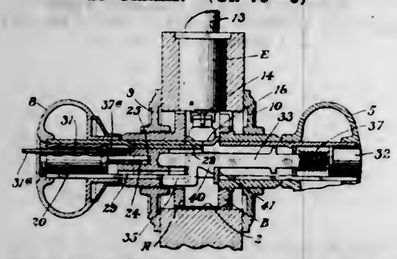
1. An aircraft gas bag envelope of less height than width and convex longitudinally and transversely at both its top and bottom, said envelope being curvilinearly tapered both forwardly and rearwardly, and being curvilinearly tapered transversely from a central vertical longitudinal plane toward a substantially central horizontal longitudinal plane, providing sharp curved edges at the juncture of said top and bottom, the bow and the stern of the envelope being each provided with a sharp transversely elongated edge disposed at said horizontal plane, said transverse curvilinear taper being merged near said horizontal plane into a straight-line taper which extends to said horizontal plane, providing sharp edges at the juncture of said top and bottom.

1,944,468
ANTIGLARE DEVICE
George H. Schaffner, Detroit, Mich., assignor to Peerless Novelty Company, Grand Haven, Mich., a corporation of Michigan
Application November 14, 1930
Serial No. 495,679
2 Claims. (Cl. 296—97)



2. A device of the class described comprising, a light shield, a supporting arm, means for attaching said light shield to one end of said arm, an enlarged portion at the opposite end of said arm, a mounting plate having a base and a raised portion, said raised portion having an opening therein, a socket portion on the rear surface of said raised portion adapted to receive said enlarged portion with said arm extending through said recess, a tension member located at the rear side of said plate and engageable with said enlarged portion and adjustable means for holding the tension member in engagement with said enlarged portion, said mounting plate forming a housing and completely surrounding said adjustable means, said housing being of such depth as to conceal the said adjustable means, and also said raised portion having a slot radiating from said opening, said slot being of sufficient width to receive said arm.

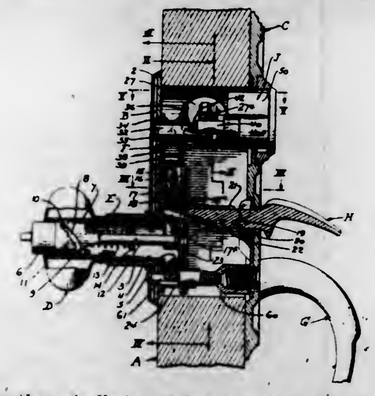
1,944,469
DOORLOCK INDICATOR
Walter R. Schlage, San Francisco, Calif., assignor to Schlage Lock Co., San Francisco, Calif., a corporation of California
Application July 1, 1929. Serial No. 374,985
29 Claims. (Cl. 70—6)



1. In a door lock, an inner knob, a depressible latch actuated thereby, a lock indicator, means on the inner knob for displaying or retracting the indicator, and means actuated by depression of the latch for retracting the indicator.

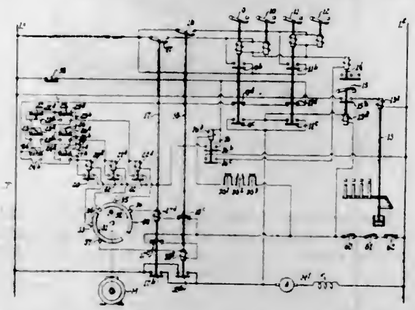
1,944,470
ENTRANCE DOORLOCK
Walter R. Schlage, San Francisco, Calif., assignor to Schlage Lock Co., San Francisco, Calif., a corporation of California
Application July 1, 1929. Serial No. 374,986
17 Claims. (Cl. 70—29)

6. In an entrance door lock a latch bolt, a roll back member whereby the latch bolt is actuated, a mounting plate, a spindle journalled therein, a knob on the spindle, a plate whereby the roll back is actuated, said plate being slidably mounted on the mounting plate, means whereby sliding movement is transmitted to the sliding plate



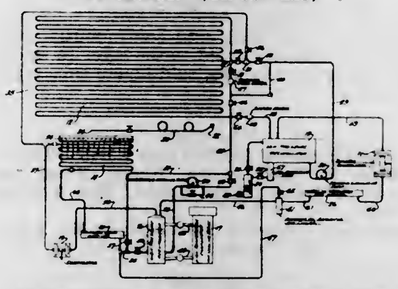
when the spindle is rotated, a second sliding plate whereby the roll back is actuated, and a thumb actuated mechanism whereby sliding movement is transmitted to the second sliding plate to actuate the roll back and the latch bolt.

1,944,471
CONTROL SYSTEM FOR ELECTRIC ELEVATORS
Edwin W. Seeger, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application June 13, 1930. Serial No. 460,951
7 Claims. (Cl. 187—29)



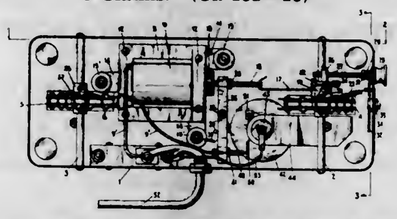
1. In a control system for elevators provided with a plurality of landing doors, the combination with a car and a hoisting motor therefor, of a locking device for each of the landing doors, a switch associated with each of said devices, each of said devices being adapted to open its associated switch upon unlocking of its associated door, and to close the same upon locking of its associated door, means acting upon closure of all of said switches to effect starting of said motor and acting upon opening of any one of said switches to effect stopping of said motor, and means for controlling said locking devices to effect starting of said motor when the elevator car is at any one of its landings and to effect automatic stopping of said motor upon movement of the elevator car into a position opposite a selected landing.

1,944,472
ART OF REFRIGERATION
Harry Sloan, Ernst S. H. Baars, and Charles G. Bach, Milwaukee, Wis., assignors to The Vilter Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 22, 1930
Serial No. 483,526
10 Claims. (Cl. 62—115)



1. In combination, a primary refrigerating unit including a high pressure accumulator, a secondary refrigerating unit comprising an evaporator the inlet of which is adapted to receive refrigerant from a relatively low temperature portion of said high pressure accumulator, a low pressure accumulator communicating with the discharge of said evaporator, and means for delivering additional refrigerant from said low pressure accumulator to said inlet.

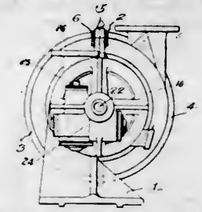
1,944,473
TOASTER DEVICE
Alden B. Starr, Brooklyn, N. Y., assignor to Knapp-Monarch Company, a corporation of Missouri
Application March 5, 1930. Serial No. 433,472
9 Claims. (Cl. 161—16)



1. In combination, a conveyor chain, sprocket wheels for the support thereof, one of said sprockets having ratchet teeth thereon, a pawl cooperating therewith, an electromagnet having a frame, a coil, and an armature, linkage between said armature and said pawl, and means for the opening of the circuit to said coil comprising a pair of contacts, a balance wheel, one of said contacts being mounted upon said balance wheel, and a pivoted arm, the other of said contacts being supported thereby.

1,944,474
PULVERIZER
Clinton D. St. Clair, Erie, Pa., assignor to Erie City Iron Works, Erie, Pa., a corporation of Pennsylvania
Application July 16, 1929. Serial No. 378,749
7 Claims. (Cl. 83—11)

1. In a pulverizer, the combination of a base; a pulverizer housing on the base, said housing having a horizontal axis and being split to form front and rear portions; and a discharge tube on the front portion, the front portion being



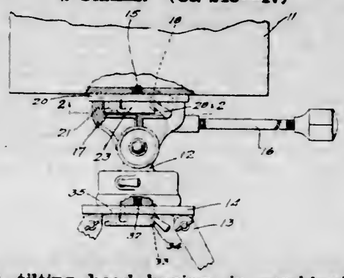
removable with the discharge tube from the rear portion, and without disconnecting the rear portion from the base.

1,944,475
SNAP HOOK
Gilbert W. Stowell, Mackinaw, Ill.
Application February 12, 1932, Serial No. 592,463
Renewed May 26, 1933
10 Claims. (Cl. 24—236)



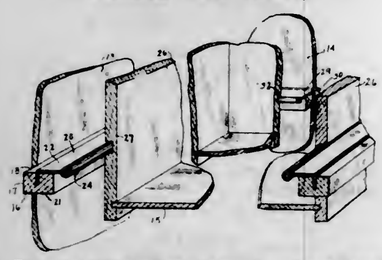
1. A snap hook, in combination, a hollow body portion having securement means and including an overlying hook portion disposed centrally of said body portion comprising a pair of depending inwardly turned ring engaging members forming a throat opening into said hollow body portion and forming a continuation of said throat opening out of said hollow body portion for the introduction of a ring thereinto and between said ring engaging members, and a spring disposed within said body portion and extending across said throat continuation thereof and normally engaging the depending ends of said ring engaging members whereby to close the throat opening between said members and the throat continuation thereof.

1,944,476
CAMERA ATTACHMENT
Karl W. Thalhammer, Los Angeles, Calif.
Application November 1, 1929. Serial No. 404,046
2 Claims. (Cl. 248—47)



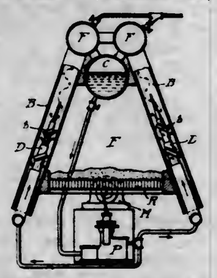
2. A tilting head having, in combination, a stationary part, a movable part cooperating with said stationary part, said movable part comprising a body member, a plate member having an aperture formed therein, a split ring member positioned in said aperture, a support for said ring member, an instrument post in said ring member and extending beyond said plate member, and tightening means for rigidly clamping said split ring member on said instrument post.

1,944,477
WOOD FURNITURE DRAWER SUPPORT
James Tillotson, Jr., Jamestown, N. Y.
Application November 26, 1932
Serial No. 644,460
5 Claims. (Cl. 45—77)



1. In an article of wooden furniture having a drawer opening, a rail fixed to said article, walls defining a longitudinally directed slot in one face of said rail, a drawer guide strip on said rail and projecting laterally beyond one vertical edge thereof, and a flange on said strip engaged with said rail slot for accurately determining the extent of lateral projection of said strip beyond said rail.

1,944,478
BOILER
Ernst Tuckermann, Esbo, Finland, assignor to H. W. Guettler, President of Fibre Making Processes Inc., Chicago, Ill.
Application February 14, 1933, Serial No. 656,673, and in Finland January 29, 1932
4 Claims. (Cl. 122—39)



1. In combination in a boiler, an upper drum structure, tubes communicating at their upper end with said structure and extending downward therefrom at opposite sides thereof, a steam and water drum extending between the tubes at the upper portions thereof and below said drum structure, said drum and said tubes defining a combustion space, injector nozzles extending into the lower ends of the tubes, and means for delivering water under pressure from said steam and water drum to said nozzles.

1,944,479
METHOD OF TREATING EMULSIONS
William F. Van Loenen, Buena Park, Calif., assignor to L. Blake-Smith, San Francisco, Calif.
Application May 21, 1932. Serial No. 612,845
15 Claims. (Cl. 196—3)

6. A method of treating an oil-water emulsion with granular solids having the property of resolving said emulsion into its constituents: establishing in a vessel a liquid body of said emulsion; contacting with said emulsion granular solids; retaining in said vessel a layer of water beneath an oily layer containing emulsion; distributing in said oily layer a supply of said solids, said solids subsiding through both said layers to the



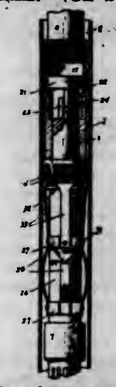
bottom of said vessel; and continuously returning said solids from said water layer to said oily layer while maintaining said layers substantially separated.

1,944,480
METHOD OF TREATING EMULSIONS
William F. Van Loenen, Buena Park, Calif., assignor to L. Blake-Smith, San Francisco, Calif.
Application May 21, 1932. Serial No. 612,846
10 Claims. (Cl. 196—3)



6. A method of treating an oil-water emulsion with granular solids having the property of resolving said emulsion into its constituents: establishing in a vessel a liquid body of said emulsion; contacting with said emulsion said granular solids; retaining in said vessel a layer of water beneath an oily layer containing emulsion; distributing in one of said layers a supply of said solids, said solids rising through said oily layer to the top of said liquid body; and continuously returning said solids from the top of said liquid body to the bottom of said oily layer while maintaining said layers substantially separated.

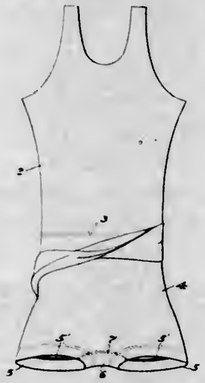
1,944,481
SETTING TOOL FOR SETTING A LINER IN AN OIL WELL OR THE LIKE
Walter T. Wells, Glendale, Calif.
Application December 10, 1932
Serial No. 646,614
6 Claims. (Cl. 255—35)



1. A device of the character disclosed comprising a sleeve provided at one end with means for connection with a tubing string and having its central longitudinal bore successively reduced in diameter toward its other end, a mandrel, slidable within said sleeve, having an annular flange thereon coinciding substantially in diameter

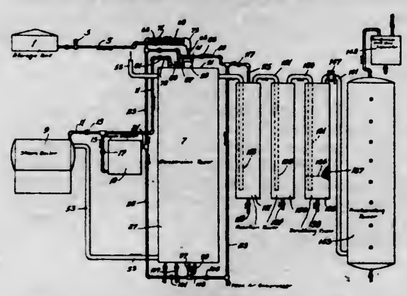
with the major bore of said sleeve, forming a means limiting the degree of relative longitudinal movement of the sleeve and tube, and a thread on said mandrel for engagement with a liner to be set.

1,944,482
BATHING GARMENT
Charles N. Winship, Wakefield, Mass.
Application March 5, 1932. Serial No. 596,916
3 Claims. (Cl. 2—67)



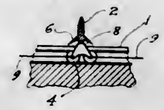
1. A short legged garment comprising front and rear portions to protect the lower part of the trunk of the wearer's body, and a crotch piece joined to said portions and forming the crotch and parts of the legs of the garment, said crotch piece having its front and rear ends notched, and said front and rear portions having central notches to which the notched ends, respectively, of said crotch piece are sewed, whereby the seams at said ends extend laterally of the garment from one leg to the other and are spaced one in front of the other.

1,944,483
METHOD OF TREATING HYDROCARBONS
John D. Zieley, Belmar, N. J., assignor to Amarel Corporation, Wilmington, Del., a corporation of Delaware
Application July 7, 1931. Serial No. 549,223
2 Claims. (Cl. 196—65)



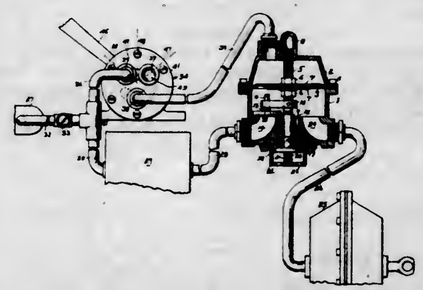
2. The process of separating paraffine from grease and oil in petrolatum, which comprises atomizing said petrolatum, and contacting superheated steam and air with the atomized petrolatum in a reaction zone maintained at a temperature of the order of 1000° F., the time of reaction being such as to avoid deleterious cracking.

1,944,484
SAFETY DEVICE FOR AIRCRAFT
Gaetano Ajello, New York, N. Y.
Application April 18, 1931. Serial No. 531,119
6 Claims. (Cl. 244—31)



1. On an aircraft wing, a knife structure, a slot or track within said wing, antifriction contact means between said knife structure and the slot or track, and control means to move said knife structure forth and back along said wing.

1,944,485
AIR CONTROL MECHANISM
Waldemar F. Andersen, Alameda, Calif., assignor to Dudley F. Searle, Oakland, Calif.
Application November 2, 1932. Serial No. 640,775
5 Claims. (Cl. 303—54)

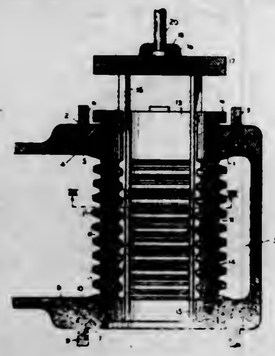


1. An air control mechanism of the class described comprising a valve body having an upper and a lower compartment, a flexible diaphragm between said compartments, a rod fixed to said diaphragm, guides for said rod, a bracket fixed to said rod, a slidable pin in said bracket, a flat resilient disc valve on said pin, a valve seat for said valve having a pointed edge, a spring acting to hold said valve on its seat while the rod continues to travel, a flat resilient valve on the outside of said valve body having a pin in axial relation with said rod, a seat for said valve having a pointed edge, a spring to close said valve, ports adapted to be closed by said valve, and means to vary the air pressure on each side of said diaphragm to operate said valves.

1,944,486
VALVE
Charles M. Bailey, Berkeley, Calif.
Application January 19, 1931. Serial No. 509,732
3 Claims. (Cl. 137—153)

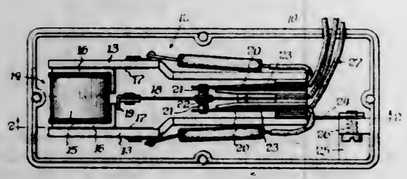
1. A valve including an enclosing fitting having inlet and outlet openings and an internal chamber communicating with said inlet; an outer sleeve comprising a series of superimposed interposed rings held in tubular arrangement by shrouds, one end of said sleeve being threaded in the wall of said chamber and compressing an interposed gland packing; an annular gland threaded in the opposite wall of said chamber and compressing an interposed packing against the opposite end of said sleeve; an inner sleeve of

similar construction to said outer sleeve and slidable therein and open at both ends to the outlet



of said fitting; and an operating stem engaging said inner sleeve.

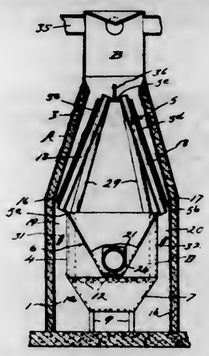
1,944,487
ELECTROMAGNETIC VIBRATORY MOTOR
Jacob Bertschi, Chicago, Ill., assignor to Utah Radio Products Company, Chicago, Ill., a corporation of Illinois
Application July 3, 1933. Serial No. 676,810
4 Claims. (Cl. 175—338)



1. In a vibratory motor, the combination of an enclosing casing, a vibratory motor unit including an electromagnet, a vibratory armature responsive to electromagnet energizations, and supporting means for said electromagnet and armature, and means for supporting said unit from said casing and in spaced relation to the internal walls thereof for independent movement relative to the casing induced by the operation of said unit.

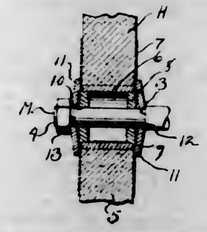
1,944,488
WARM AIR FURNACE
Harry A. Bertossa, Detroit, Mich., assignor of one-half to James Rodney Weeks, Birmingham, Mich.
Application October 24, 1932. Serial No. 639,339
13 Claims. (Cl. 126—109)

9. A furnace having a combustion chamber provided with a dome portion, means cooperating with the dome portion to form passages for conducting air exteriorly of the dome portion from a point below the same to a point above the uppermost part of said dome portion, and tubes for conducting air interiorly of the dome portion from a point below the same to a point above the uppermost part of said dome portion, said passages and tubes converging upwardly and discharging adjacent each other substantially in a common horizontal plane above said dome portion, the exterior passages gradually increasing



in cross sectional area from their lower to their upper ends.

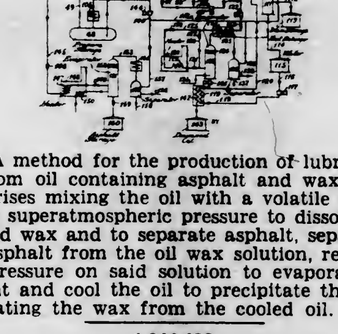
1,944,489
GRINDER
Ely Bocksbe, Milwaukee, Wis.
Application July 22, 1932. Serial No. 624,067
1 Claim. (Cl. 51—168)



The combination with an operating shaft having a threaded end and a shoulder in spaced relation to said threaded end, and an abrasive wheel including a body having an enlarged bore, of means for rigidly connecting the grinding wheel with the shaft for rotation therewith including a hub sleeve fitted in the bore of the wheel for movement therewith and of a greater diameter than the shaft, hub bearing plugs fitted in the opposite ends of the sleeve and provided with annularly outstanding flanges engaging the opposite outer faces of the sleeve, a pair of concavo-convex discs having their peripheral edges engaging the opposite sides of the wheel, their inner faces, and the edges of the hub plugs, the clamping discs and the hub plugs being provided with axially aligned bores for snugly receiving the shaft, one of the discs engaging the shoulder on the shaft, a nut fitted on the threaded end of the shaft in engagement with the other clamping disc, and compressible discs secured to the opposite faces of the wheel and inter-posed between the side faces of the wheel and the clamping discs.

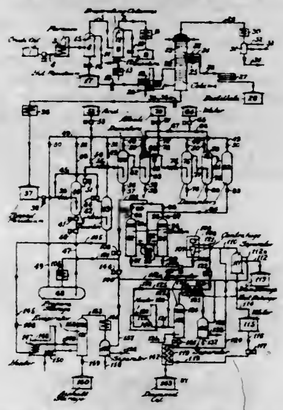
1,944,490
BRAKE
Myron W. Bowen, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application April 22, 1932. Serial No. 606,783
15 Claims. (Cl. 188—106)

10. In mechanism of the class described, the combination of a support, a pair of opposed brake shoes mounted thereon, a brake drum cooperating with said shoes, means engaging both of said shoes for separating one set of opposed ends of said shoes and for applying said shoes against said



drum, and independent mechanical means engaging one shoe only for separating the opposite set of opposed ends of said shoes and for applying both of said shoes against said drum.

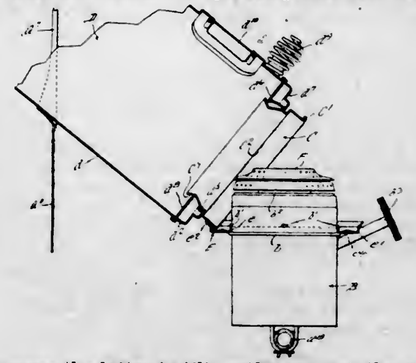
1,944,491
METHOD FOR PRODUCING LUBRICATING OIL
Ulric B. Bray, Palos Verdes Estates, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Original application July 7, 1930, Serial No. 466,189. Divided and this application January 10, 1933. Serial No. 650,994
14 Claims. (Cl. 196—13)



1. A method for the production of lubricating oil from oil containing asphalt and wax which comprises mixing the oil with a volatile solvent under superatmospheric pressure to dissolve the oil and wax and to separate asphalt, separating the asphalt from the oil wax solution, releasing the pressure on said solution to evaporate the solvent and cool the oil to precipitate the wax, separating the wax from the cooled oil.

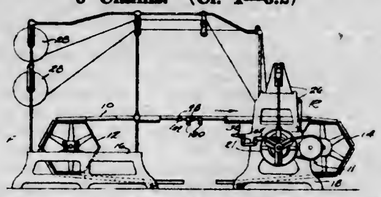
1,944,492
BURNER
Lee S. Chadwick, Shaker Heights, and Charles J. Kessler, Cleveland Heights, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application May 31, 1930. Serial No. 457,882
9 Claims. (Cl. 158—94)

1. In combination, a burner, a demountable collar surrounding the top of the burner, a support whereon said collar rests but from which it is otherwise disconnected, and a drum surmounting the collar and adapted to be tilted with respect to the burner, the drum when tilted in a given direction cooperating with the collar



to cause the latter to tilt on the support, the support and collar having parts coacting to maintain the latter in proper position when tilted and which parts freely withdraw one from the other when the collar is lifted from the support.

1,944,493
APPARATUS FOR CONTROLLING THE POSITION OF STAPLES IN WIREBOUND BOXES
Gus L. Colbie, Brooklyn, N. Y., assignor to F. MacGovern Corporation, New York, N. Y., a corporation of New York
Application April 23, 1932. Serial No. 607,100
8 Claims. (Cl. 1—8.2)



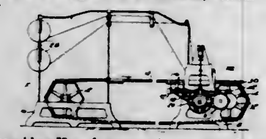
1. In a machine for making wire-bound boxes having a continuously operating work-feeding mechanism, and a cooperating staple-setting mechanism operatively connected to said work-feed mechanism through a power transmission clutch, the combination, with said above described apparatus, of a snap-over control device for opening and closing said clutch, and means comprising an element moving in unison with said work feeding mechanism for tripping said snap-over mechanism; whereby, as soon as said tripping means has come into action to an extent sufficient to carry said snap-over mechanism past its critical point of operation, the latter will automatically and instantly complete the clutch engagement or disengagement then in progress.

1,944,494
WORK FEED CONTROL MEANS FOR LOCATING STAPLES IN WIREBOUND BOXES
Gus L. Colbie, Brooklyn, N. Y., assignor to F. MacGovern Corporation, New York, N. Y., a corporation of New York
Application May 13, 1932. Serial No. 611,157
14 Claims. (Cl. 1—8.3)

1. A machine for use in making boxes comprising in combination, means to feed continu-

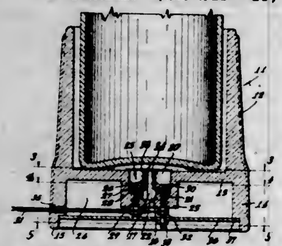
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ously at a normally uniform speed a plurality of box parts, staple setting mechanism operable at regular intervals upon said moving box parts to space a succession of staples at normal uniform distances apart thereon, and mechanism



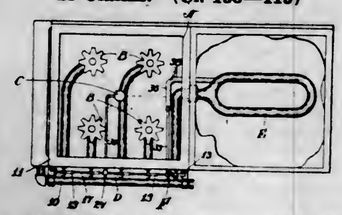
for automatically increasing or decreasing the speed of the work feed continuously throughout any desired period of the operations; whereby certain staples may be driven at distances apart greater than such normal distance or less than such normal distance.

1,944,495
ELECTRIC LIQUID HEATER
Lawrence A. Collins, Long Beach, Calif.
Application November 22, 1932
Serial No. 643,865
3 Claims. (Cl. 219—40)



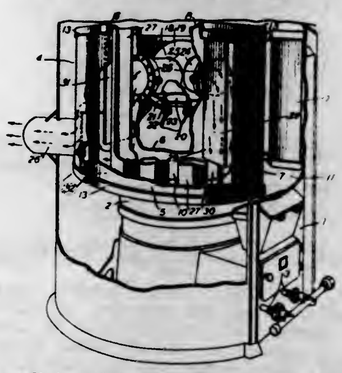
1. A liquid heater comprising in combination a receptacle formed of insulating material and being in the form of a cup having a cylindrical inside surface with a base having a central diametrically depending portion with a recess formed in this latter portion, the recess extending diametrically across the base, a skirt extending below the base and having a lower edge on which the receptacle may rest, leaving a hollow space inside the skirt and below the base, electrodes secured in the recess by conducting bolts extending through the depending structure, the electrodes being spaced apart, electric leads through the skirt connected to said bolts, a closure cover fitted against a shoulder in the skirt and held in place by one of the bolts, said cover preventing accidental contact with the electric leads or the said bolts.

1,944,496
LIGHTER
Jacob Copilovich, St. Paul, Minn., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application February 4, 1928, Serial No. 251,848
Renewed July 20, 1931
18 Claims. (Cl. 158—115)



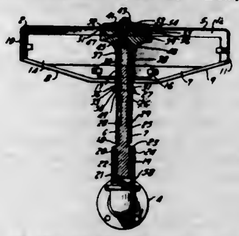
1. A gas stove including burners, an oven burner, automatic means for lighting any of the burners, including an auxiliary gas feed tube adjacent to the oven burner, a pilot-light and valve therefor, a valve for said auxiliary gas feed tube, and means for simultaneously operating said gas feed valve with the pilot light valve.

1,944,497
FURNACE RADIATOR
Thomas Crick, Independence, Mo., assignor to Independence Stove and Furnace Company, Independence, Mo., a corporation of Missouri
Application October 6, 1930. Serial No. 486,709
3 Claims. (Cl. 126—102)



1. A radiator of the character described including an arcuate casing having inner and outer side walls and top and bottom walls forming a chamber, an outlet conduit opening through said outer side wall, an inlet manifold concentric with said casing and having branches opening through said inner side wall for conducting heated gases to said chamber, tubes extending through the chamber and top and bottom walls, and baffle plates in the chamber interposed between said tubes and arranged to cause downward flow of gases into said chamber upon issuing from each of said branches.

1,944,498
SIGN
Thomas Crick, Independence, Mo., assignor to Independence Stove and Furnace Company, Independence, Mo., a corporation of Missouri
Application May 15, 1933. Serial No. 671,071
15 Claims. (Cl. 40—145)



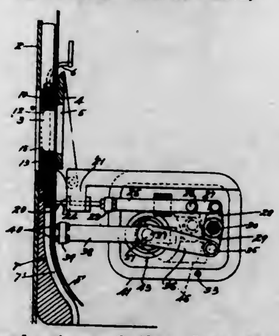
7. A sign of the character described including upper and lower sign members, a bracket section mounted within the lower sign member, an extension on the bracket section, a bracket section mounted in the upper sign member and engaging the extension on the lower bracket section, and means for securing the upper bracket section to the lower bracket section including means for clamping said sign members to said bracket sections.

1,944,499
VENDING MACHINE
John A. Crimp, Yakima, Wash.
Application August 30, 1930. Serial No. 478,928
7 Claims. (Cl. 312—49)



6. In a vending machine for non-uniform, substantially spherically shaped articles; an upright receptacle for storing said articles one above the other; a selectively operable delivery support positioned at the bottom of said receptacle; and a checking support positioned above said delivery support and pivotally mounted adjacent the side of said receptacle, said checking support provided with resilient means urging said checking means in an arcuate path into and downwardly in said receptacle, and said checking support being positioned to initially engage the upper surface portion of the bottom-most article in the receptacle, whereby non-uniform, spherically shaped articles may be successively checked by said checking means, and whereby said checking support may be caused to progressively enter between non-uniform articles, and to follow the contour of the upper surface portion of the said bottom-most article without injury thereto, and to urge downwardly the bottom-most article in said receptacle.

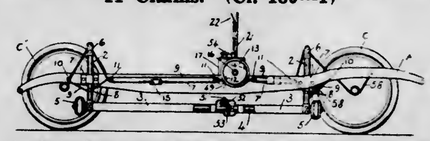
1,944,500
COMBINED INTERMITTENT CLAW FEED FILM MOVEMENT AND FILM PRESSURE RELEASE
Theodor M. De La Garde, Los Angeles, Calif., assignor of three-fourths to Thomas L. Tally, Beverly Hills, Calif.
Application April 22, 1932. Serial No. 606,818
13 Claims. (Cl. 88—18.4)



6. In mechanism of the class described; a movement casing provided with a sealed oil chamber, drive means operative in said chamber, shuttle means in said casing and exterior of the chamber, an oscillative, sealing disc for the chamber having a slide-way and said shuttle means including a member slidably mounted in said slide-way and operatively connected to said drive means in said chamber.

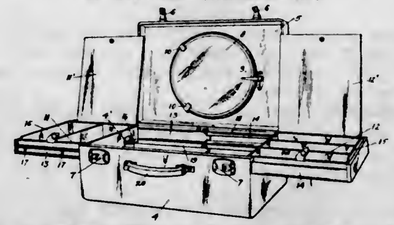
13. In mechanism of the class described; a pilot pin system, means to reciprocate the pin system, an aperture plate, a pair of oscillative rock shafts engaging, operatively, the top and bottom portions of the plate, and means connecting said shafts and actuated by said pin system, whereby to oscillate the said shafts.

1,944,501
JACKING AND SIDEWISE MOTION TRANSMITTING DEVICE FOR AUTOMOTIVE VEHICLES
Peter L. Dounis and Alexander Jordanoglou, Washington, D. C.
Application April 10, 1931. Serial No. 529,272
11 Claims. (Cl. 180—1)



1. A jacking and sidewise motion transmitting device for automotive vehicles, including a jack carried by the vehicle and provided with vertically slidable means carrying at their lower ends ground wheels, driving means for the ground wheels including a housing, a shaft mounted therein transversely of the vehicle and adapted to be driven by the counter-shaft of the vehicle, and a second shaft driven by the first shaft for imparting sliding movement to the slidable means, the second shaft carrying drums, means connected to the drums and actuated thereby for sliding the said slidable means and means for driving the ground wheels from the transversely mounted shaft.

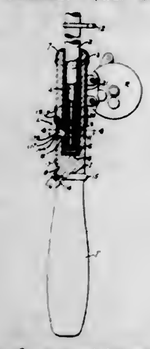
1,944,502
MAKE-UP BOX
Max Factor, Los Angeles, Calif.
Application January 27, 1931. Serial No. 511,547
3 Claims. (Cl. 190—33)



1. A make-up box consisting of a box open at its top with a hinged lid to close down over the top edge thereof, the opposite ends of said box formed with tray receiving openings therein extending from their top edges downward and guideways formed on the inside of the front and back walls of said box, two trays having a combined length corresponding to the length of said box and a depth corresponding to said tray receiving openings, a pair of telescoping supporting members in each of said guideways and between the front and back of the box and the front and back respectively of each tray, the re-

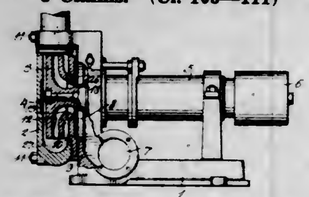
mote ends of each pair of telescoping members being secured to the backs and fronts respectively of said trays, and said telescoping members each having a length substantially twice the length of each tray, whereby said telescoping members telescope one within the other as said trays are moved together into the box, said guideways supporting said telescoping members as said trays are moved apart to extend beyond the opposite ends of said box to expose the open interior of said box, and said hinged lid of said box closing down over the top edges of said trays when said trays are moved within said box and locking them within the box.

1,944,503
FISHING ROD
Charles M. Fairley, St. Louis, Mo.
Application June 27, 1932. Serial No. 619,399
9 Claims. (Cl. 43—18)



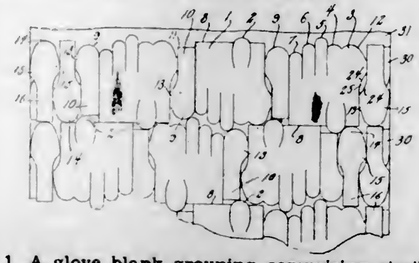
1. A fishing rod comprising a handle portion, a plurality of rod sections arranged in telescopic relation and movable to extended and retracted positions, and locking means supported by said handle portion for locking said telescopic rod sections to said handle portion in their retracted positions, said locking means comprising a yieldable member fixed at one end to said handle element, and a locking element at the opposite movable end of said yieldable member, said locking element being adapted to engage said telescopic rod sections to lock same in place.

1,944,504
SIDE PLATE FOR CENTRIFUGAL PUMPS
William E. Geer, Denver, Colo., assignor to A. R. Wilfley and Sons, Inc., Denver, Colo., a corporation of Colorado
Application May 16, 1932. Serial No. 611,525
3 Claims. (Cl. 103—111)



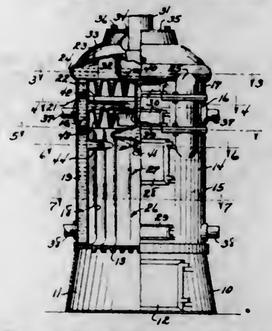
1. In a centrifugal pump comprising an impeller housing having a removable side plate made from suitable material and provided with an opening, a renewable wear ring located in the opening, means comprising lugs integral with the ring for centering in the opening, means for attaching the ring to the plate comprising readily fusible malleable material placed in the space between the ring and the wall of the opening, and means for protecting the fusible material from erosive action by the material pumped, said means consisting of a protecting flange projecting outwardly from the ring and positioned to bear against the side plate on the impeller side thereof.

1,944,505
GLOVE MANUFACTURE
Herman A. Gillian, Columbus, Ohio
Application October 24, 1932. Serial No. 639,170
3 Claims. (Cl. 2—169)



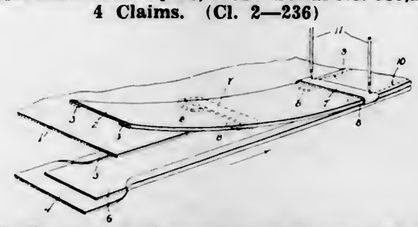
1. A glove blank grouping comprising similar palm, finger, and thumb inside blank units in a series with the wristward side of the little finger of one toward the finger side of an oppositely extending index finger of the next in said series, said units being in full form with symmetrical convex termini for the respective fingers and thumb portions, and a little finger back having its wristward portion spacing the index finger side of one unit from the little finger wristward portion of the adjacent unit.

1,944,506
BOILER
Edmund E. Grassman, Arlington, N. J.
Application November 18, 1932
Serial No. 643,249
2 Claims. (Cl. 122—218)



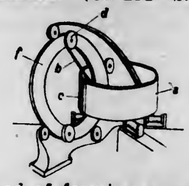
1. A boiler of the character described comprising an ash pit base, an outer shell supported thereby and including superposed units having inner walls spaced from the outer shell to provide fluid spaces therein, connections establishing communication between the spaces of the units, hollow nipples projected from the inner walls of said units, a crown formed on the uppermost unit, a hollow fluid leg depending from said crown and having communication at its lowermost end with the fluid space of said lowermost unit, a dome rising from the crown and having an outlet flue for discharging spent products of combustion, flues formed in the crown for establishing communication between the interior of the boiler and the said dome, a fluid outlet pipe leading from the crown, and a cap about said fluid outlet pipe and detachably connected with the dome.

1,944,507
WEARING APPAREL AND METHOD OF MAKING SAME
Frank Grasso, Wilkes-Barre, Pa.
Application January 23, 1933. Serial No. 653,141
4 Claims. (Cl. 2—236)



1. The method of assembling and sewing waistbands and belt loops together and to the upper edge of garments, which consists in taking an inner lining band and an outer band, placing the upper edge of the garment proper on the lining band, placing the outer band over the lining band with the upper edge of the garment between the bands, taking belt loops and folding their two ends under the top and bottom edges respectively of the outer band whereby the folded under ends will lie between the inner and outer bands and feeding the assemblage to a double needle sewing machine whereby in one operation the parts will be sewn together with a top and a bottom row of parallel stitches.

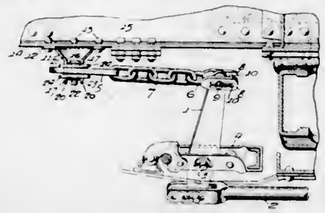
1,944,508
METHOD OF MAKING ELECTRICALLY INSULATING FORM PIECES
Ulrich Gubler, Ennetbaden, Switzerland, assignor to Micafil Aktiengesellschaft, Altstetten, near Zurich, Switzerland, a joint-stock company of Switzerland
Application May 2, 1931, Serial No. 534,603, and in Germany May 5, 1930
5 Claims. (Cl. 154—2.6)



2. The method of forming annular insulating members which comprises winding a strip of insulating fabric in several layers of different pitch upon an annular mandrel to form a toroidal tube, cutting open the tube along one side thereof to form an annular blank, and subjecting said annular blank to a shaping operation.

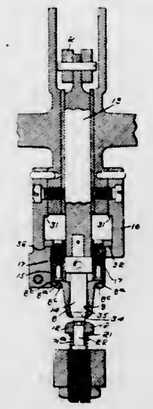
1,944,509
BRAKE RIGGING FOR RAILWAY CARS
Cyrus Hankins, Washington, D. C.
Application March 26, 1931
Serial No. 525,532
6 Claims. (Cl. 188—206)

1. In a railway car brake rigging, the combination with the underframe of a car, of a dead lever, a bracket rigid with the underframe and integrally provided with vertically spaced jaws, a plate-like member having a portion interposed between and supported by said jaws, pivot means connecting said plate member to the jaws and adapted to permit said member to swing in



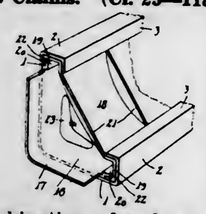
a substantially horizontal plane, and means involving a chain for flexibly connecting the upper end of the dead lever to said plate member, the latter being provided with a plurality of pin receiving apertures whereby it may be connected to the jaws in a plurality of different positions to take up slack in the brake rigging.

1,944,510
FASTENER ATTACHING MACHINE
Lester N. Hayden, Arlington, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 4, 1932. Serial No. 615,349
11 Claims. (Cl. 218—6)



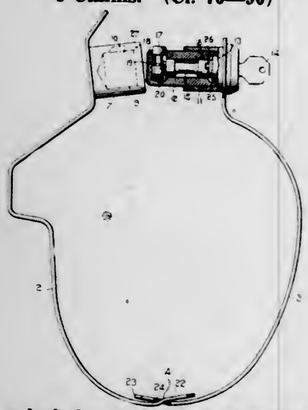
1. A machine for attaching snap fastener parts to a carrying medium comprising, in combination, a lower setting mechanism and an upper setting mechanism, the carrying medium being adapted to rest upon the lower setting mechanism, said upper setting mechanism comprising a pair of opposed jaw members arranged to move away from each other to release a fastener member from between said jaw members, jaw-holding means, a support for said jaw-holding means, said support having a shoulder spaced above said lower setting means at a distance permitting said jaws to move into approximate contact with a carrying medium when supported by said lower setting means and a setting member movable relative to said jaw members after the jaw-supporting means has engaged said limiting shoulder thereby to release the fastener part from between said jaws and set it against said carrying medium.

1,944,511
ROAD FORM
John N. Heltzel, Warren, Ohio
Application February 23, 1929. Serial No. 342,263
8 Claims. (Cl. 25—118)



5. The combination of a form rail having a base and a web each provided with a flange, a slip joint member movable into the rail between said flanges, and portions secured to said base and web adjacent to the respective flanges, said joint member having portions to move snugly between said portions and flanges.

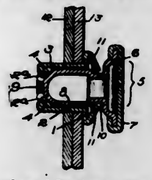
1,944,512
LOCKING MEANS FOR SPARE VEHICLE WHEELS AND THE TIRES THEREOF
Frederick W. Henke, Jr., Philadelphia, Pa., assignor to Fox Automotive Products Corporation, Philadelphia, Pa., a corporation of Delaware
Application September 23, 1931
Serial No. 564,633
4 Claims. (Cl. 70—90)



1. In a lock for a spare wheel and its tire of the band-encircling type, the combination with the band, one end of which is permanently secured to a supporting part, and the other is free to move relative thereto, of bridging pieces between the ends of the bands when brought toward each other to close about the tire and rim, such bridging pieces being carried by the respective end portions of the band and arranged to telescope one within the other, and locking means for uniting the said telescopic bridging parts together.

1,944,513
EXPANSION RIVET
Gustav Johnson, West Roxbury, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 5, 1931. Serial No. 506,545
5 Claims. (Cl. 85—40)

1. A rivet comprising, in combination, a rivet part and an expanding part normally assembled prior to attachment of the rivet to the parts to be secured together, said rivet part having a head and an expansible shank, said expanding part having a shank extending into the expansible shank of said rivet, means provided by said ex-



pansible shank of said rivet for engagement by said shank of said expanding part thereby to expand said expansible shank, a neck provided in the shank of said expanding part and means extending from said rivet into said neck thereby holding the parts in assembled relation.

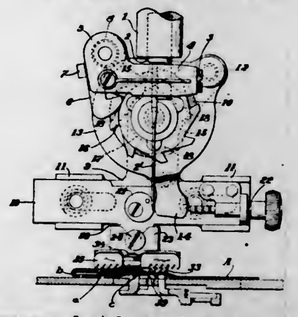
1,944,514
ACYLATED CYCLOHEXYL-PHENYL-AMINES AND PROCESS OF PREPARING THEM
Georg Kalischer, Frankfort-on-the-Main, and Richard Fleischhauer, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application December 5, 1929, Serial No. 411,977, and in Germany December 19, 1928
12 Claims. (Cl. 260—124)

5. As new products, the compounds of the following general formula:

$$\text{cyclohexyl—N(Z)—R—X}$$

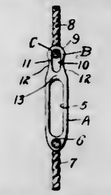
wherein R stands for a benzene radical, the hydrogen atoms of which may be substituted by the nitro- or sulfo-group, "cyclohexyl" stands for a cyclohexyl radical, the hydrogen atoms of which may be substituted by the methyl group, Z for an acyl group and X for a NO_2- or NH_2-group.

1,944,515
PRESSER-FOOT FOR ZIGZAG-STITCHING ATTACHMENTS
John D. Karle, Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 25, 1932. Serial No. 639,391
6 Claims. (Cl. 112—235)



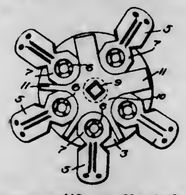
1. A presser-foot for sewing machines comprising, a shank, a sole-plate having an elongated needle-aperture and pivoted thereto so as to tilt vertically, an auxiliary presser-member carried by said sole-plate and extending below the lower face thereof, said auxiliary presser-member having a smooth vertical edge which acts as a guide, and means for yieldingly urging said auxiliary presser-member downwardly relative to said sole-plate.

1,944,516
LOOM HARNESS AND MAIL EYE THEREFOR
John L. King, Atlanta, Ga., assignor to Atlanta Harness and Reed Manufacturing Company, Atlanta, Ga., a corporation of Georgia
Application October 25, 1930. Serial No. 491,260
12 Claims. (Cl. 139—94)



1. In a loom harness, the combination of a mail eye having a body portion provided with an elongated loop, a harness twine extending through such loop, the walls of the loop between the twine and the body of the eye being displaced toward each other against the twine to thereby bind the twine in the end of the loop.

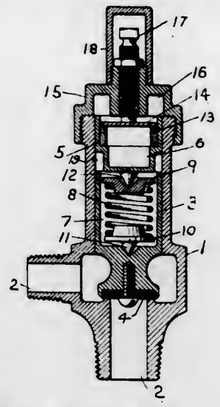
1,944,517
SOCKET DEVICE
Carl L. Knutson, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application May 5, 1931. Serial No. 535,146
1 Claim. (Cl. 173—328)



A socket for use with radio tubes and the like comprising, in combination, two relatively thin spaced plates of insulating material each having a number of apertures aligned with the apertures of the other and arranged in circles about the centers of said plates, contact-receiving members having flange portions assembled between said plates in alignment with said apertures and other portions extending through one of said plates and a third star-shaped plate of insulating material secured between said spaced apertured plates and having portions extending between those portions of said terminal members between said plates for the purposes described.

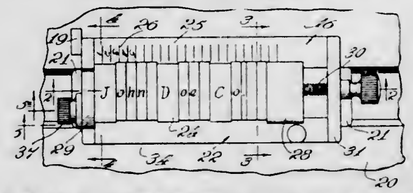
1,944,518
TEMPERATURE AND PRESSURE RELIEF VALVE DEVICE
Luther D. Lovekin, Villa Nova, and Jean L. Le Gorre, Philadelphia, Pa., assignors to Kitson Company, Philadelphia, Pa., a corporation of West Virginia
Application June 26, 1931. Serial No. 546,972
4 Claims. (Cl. 137—53)

2. A relief valve device comprising in combination a housing including a spillway, a valve for the spillway and adapted to be exposed to fluid pressure, and a ring of fusible metal confined within the housing above the valve and



in peripheral contact with a wall to which heat is conducted through the housing and which is adapted to control the opening of the valve.

1,944,519
OFFSET ALIGNING TYPE-MATRIX HOLDER
Philip P. Merrill, Evanston, Ill., assignor to Ludlow Typograph Company, Chicago, Ill., a corporation of Illinois
Application October 26, 1932. Serial No. 639,717
18 Claims. (Cl. 199—47)

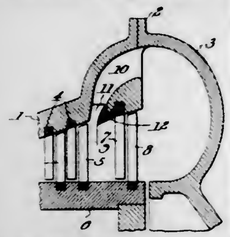


1. A type-matrix holder comprising a member in which the matrices are positioned to extend in a line and having opposing parallel side wall members one of which is movable toward and away from the other thereof into different set positions, means whereby said movable side-wall member, in its movements, is maintained parallel with the other of said side-wall members and means for holding said movable side wall member against movement in either direction out of any position of adjustment while permitting removal of said matrices.

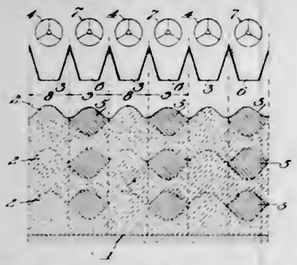
1,944,520
STEAM TURBINE
Adolf Meyer, Kusnacht, near Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland, a corporation of Switzerland
Application July 26, 1932, Serial No. 624,822, and in Germany December 30, 1930
3 Claims. (Cl. 253—69)

3. A condensing steam turbine adapted to handle large volumes of exhaust steam having in combination, a casing, a plurality of stages in said casing, an exhaust outlet, means including a by-pass leading from at least one of the intermediate stages direct to the exhaust outlet, for withdrawing steam from said intermediate stage,

and means including a throttling ring in said by-pass for throttling the steam from the pressure of the stage from which it is withdrawn down to the exhaust pressure of the turbine.

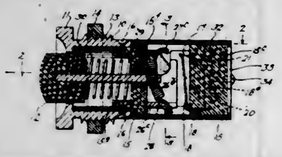


1,944,521
ELECTRIC FURNACE METHOD
Paul Louis Joseph Miguet and Marcel Paul Perron, St. Julien de Maurienne, France
Application June 14, 1932, Serial No. 617,166, and in France November 24, 1931
4 Claims. (Cl. 13—34)



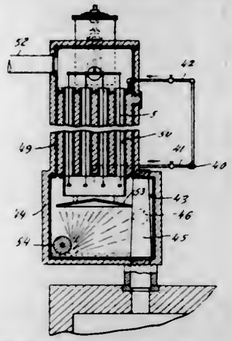
1. A method of operating an electric reduction furnace which comprises providing a charge consisting of a contiguous mass of a conductive mixture of raw materials and regularly interspersing therein isolated portions of a relatively non-conductive raw material.

1,944,522
PUSH BUTTON SWITCH CONSTRUCTION
Christian Miller and John C. Joost, New York, N. Y., assignors to Edwards and Company, Inc., a corporation of New York
Application June 21, 1930. Serial No. 462,909
16 Claims. (Cl. 200—67)



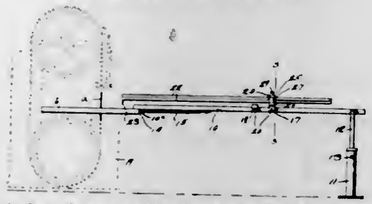
16. In push button switch construction, in combination, a member of solid dielectric material having a recess exposed from the side of said member, a sheet metal insert having side walls provided with bearing recesses, a relatively fixed contact, a swinging contact having portions resting in said bearing recesses, a spring connecting said swinging contact and said member and acting in a direction to hold said swinging contact portions in said bearing recesses and forming a toggle with said swinging contact, and a sleeve-like member slipped over said solid dielectric member for closing said recess.

1,944,523
TREATMENT OF COAL DISTILLATION GASES
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application December 4, 1928. Serial No. 323,656
4 Claims. (Cl. 183—114)



1. The improved method of treating hot coal distillation and other gases which comprises bringing them into intimate contact with tar or pitch to be distilled, then subjecting the gases to electrical precipitation to separate suspended pitch particles therefrom, and flushing the surfaces on which the pitch particles are deposited with tar or pitch.

1,944,524
GUIDING ATTACHMENT FOR BAND SAWS
George L. Parrish, Williamsport, Pa., assignor of one-half to George Herrick, Williamsport, Pa.
Application November 10, 1932
Serial No. 642,120
4 Claims. (Cl. 143—171)

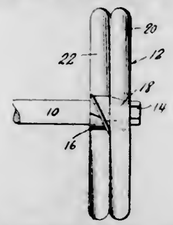


4. A band saw attachment of the character described comprising a supporting element adapted to be disposed in a horizontal plane, a member having engagement with the supporting element for adjustment along the length of the supporting element, said member being engageable with the table of a band saw, and a pair of work engaging bars pivotally mounted on a common pivot upon said supporting member for lateral swinging movement in a horizontal plane, the pivot for said bars being longitudinally adjustable upon the supporting member.

1,944,525
TWIN PROPELLER
Luis Medina y Pereyra, Manila, P. I.
Application March 28, 1932. Serial No. 601,619
1 Claim. (Cl. 170—165)

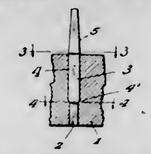
In a twin propeller, leading and following propelling units each having three radially extending blades, said blades being staggered one

with respect to the other and having a uniform pitch, the forward edges of the blades of said following propelling units being aligned circumferentially with the rear edges of the blades of



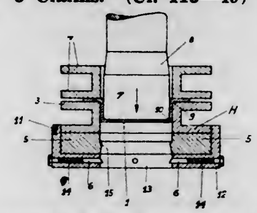
said leading propelling unit, the blades being equally spaced so as to provide a balanced structure and the hubs thereof being in abutting relation.

1,944,526
SHODDY-PICKER
Arthur J. Perron, Lowell, Mass.
Application March 4, 1932. Serial No. 596,887
1 Claim. (Cl. 19—97)



The combination with a lag having a picker receiving opening formed therein circular in cross section, of a shoddy picker seated in said opening and comprising an elongated body one end of which is provided with a square head and its other end projected longitudinally beyond the lag and tapered and rectangular in cross section to form sharpened edges at each side thereof, the intermediate portion of the body being flattened transversely to produce a shank of less thickness but of greater width than the head to form side fins for engagement with the walls of the opening in the lag, the side edges of the shank gradually merging into the adjacent side edges of the tapered end of the body.

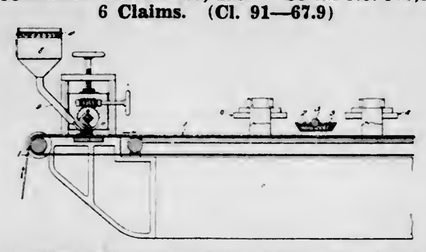
1,944,527
PROCESS OF MANUFACTURING VESSELS AND THE APPARATUS USED
Emil Pfaendler, Olten, Switzerland
Application July 10, 1931, Serial No. 549,954, and in Germany July 15, 1930
3 Claims. (Cl. 113—49)



1. The method of drawing metal and forming hollow ware therefrom, consisting in forcing a blank through a die having an inwardly extending ridge spaced from its lower side by means of a plunger having an upwardly tapering upper portion, spaced from its lower end, so that the portion of the blank forming the wall of the hollow ware article is progressively thickened and the diameter of the space within the wall progressively decreased upwardly as the upwardly tapered portion of the plunger passes the ridge of the die.

2. Apparatus for drawing metal and forming hollow ware therefrom, comprising a die having an inwardly extending ridge spaced from its lower side, and also spaced from its upper side and the upper portion of the face of which is curved and gradually diametrically contracts downwardly and the lower portion of which gradually diametrically expands downwardly, and a plunger arranged to force and draw a blank downwardly through the die, said plunger having an upwardly tapered portion so spaced from its lower end as to pass below the ridge of the die when a drawing stroke is imparted to said plunger.

1,944,528
METHOD OF SURFACE ORNAMENTATION AND APPARATUS FOR SAME
George Prifold, Somerville, N. J., assignor to The Cott-A-Lap Company, Somerville, N. J., a corporation of New Jersey
Application October 23, 1931. Serial No. 570,597
6 Claims. (Cl. 91—67.9)



2. The method of applying a plurality of paints to strip material which comprises applying to the surface of the material a paint containing more than one per cent. of dryer, and spreading over said layer while it is still wet, a paint containing not over one per cent. of dryer.

1,944,529
FLOTATION PROCESS
Wilhelm Schäfer and Willy Mertens, Bochum, Germany, assignors to Erz- und Kohle-Flotation Gesellschaft mit beschrankter Haftung, Bochum, Germany
No Drawing. Application January 11, 1933, Serial No. 651,228, and in Germany September 26, 1931
16 Claims. (Cl. 209—166)

1. A flotation process for separating fusain from the other structural constituents of coal, wherein heterogeneous coal is made into a pulp with water and subjected to froth-flotation separation in the presence of a froth producing reagent and of a polyhexose which has been pretreated with hydrogen-chloride.

1,944,530
PHOSPHORIC ACID ESTERS
Curt Schönburg, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application April 8, 1930, Serial No. 442,689, and in Germany April 8, 1929
10 Claims. (Cl. 260—98)

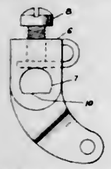
1. The phosphoric acid esters corresponding to the general formula

$$O=P\begin{cases}O-X-OR' \\ O-(-X-O-)_n R'' \\ O-(-X-O-)_n R'''\end{cases}$$

wherein R′, R″, R‴ represent alkyl, halogenoalkyl, phenyl or benzyl, wherein X stands for

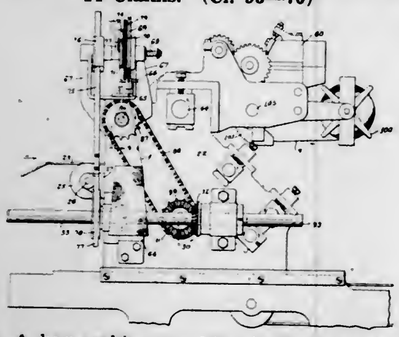
ethylene, propylene or butylene, and m and n mean 0 or 1, said esters being colorless substances of high boiling point, being difficultly inflammable and exceedingly stable and acting as gelatinizers and softeners for cellulose esters and ethers.

1,944,531
OPERATING LEVER
Joseph Schweiss, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application March 25, 1933. Serial No. 662,791
4 Claims. (Cl. 287—52.02)



1. An operating lever formed from sheet metal and having two parallel sides, said sides being joined at one end and provided with opposite non-circular perforations, a threaded opening in said lever to receive a set screw and a tongue formed integral with said lever, said tongue intersecting the axis of said threaded opening.

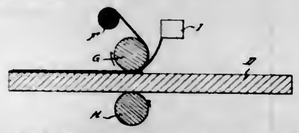
1,944,532
MACHINE FOR MAKING LAUNDRY BAGS
Melvin H. Sidebotham, West Newton, Mass., assignor to Specialty Automatic Machine Company, Chelsea, Mass., a corporation of Massachusetts
Application September 5, 1931. Serial No. 561,360
14 Claims. (Cl. 93—76)



1. A bag-making machine having means for laying a section of string across each bag, and means for adhesively securing a tab to each bag in a position overlying the string at a point intermediate the ends thereof.

1,944,533
ARTIFICIAL BOARD AND METHOD OF FORMING THE SAME
Clarence J. Strobel, Port Huron, Mich., assignor to St. Clair Rubber Company, Detroit, Mich., a corporation of Michigan
Application September 12, 1932
Serial No. 632,829
5 Claims. (Cl. 154—40)

1. An artificial board comprising a body of integrated fibrous material, a facing formed of a relatively thin sheet of paper and a layer of vulcanized rubber compound therebetween penetrating into said body and filling the surface voids thereof and also penetrating part way through the paper sheet.



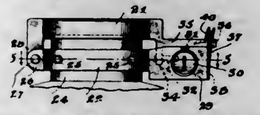
4. The method of forming an artificial board which consists in assembling a body formed of integrated fibrous material with a paper facing, impregnating the fibers of both the body and the paper facing with a rubber compound which fills the surface voids in the body and penetrates part way through the paper, and in vulcanizing the rubber.

1,944,534
FABRIC
Garfield J. Underwood, Amsterdam, N. Y., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
Application April 3, 1933. Serial No. 664,159
1 Claim. (Cl. 139—401)



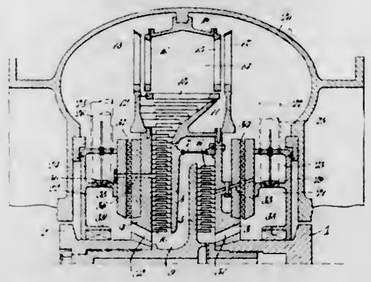
An Axminster fabric which comprises stuffer warp threads in upper and lower levels, weft shots, each comprising a double strand and said shots being inserted in cycles of three with one shot per cycle above the upper stuffer warp threads, another shot per cycle between the upper and lower stuffer warp threads, and another shot per cycle below the lower stuffer warp threads, said last-named shot being of soft heavy wool yarn and the other shots per cycle being of jute thread, tuft yarns looped only about that shot of each cycle which lies between the upper and lower stuffer warp threads and having their free ends projecting upwardly to form pile on the face of the fabric, and two sets of binder warp threads, each binder warp thread of each set crossing alternately over the weft shot of one cycle lying above the upper stuffer warp threads and under the weft shot of the next cycle lying below the lower stuffer warp threads throughout the fabric with only one binder warp thread lying in each space between adjacent rows of pile tufts extending longitudinally of the fabric.

1,944,535
CAP LOCKING DEVICE
Edwin Ellis White, Paintsville, Ky.
Application March 6, 1930. Serial No. 433,662
3 Claims. (Cl. 70—90)



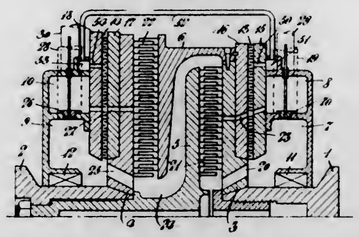
1. In a structure of the character described, a filling tube engaging member, a cap member, means pivotally connecting said members, a lug carried by one member and having a recess, a cover plate carried by the other member and adapted to cover the recessed face of the lug, a lock housed in the lug and provided with a bolt, and a tongue projecting from the cover plate and adapted to enter said recess and engageable with the bolt.

1,944,536
STEAM TURBINE
Oscar Anton Wiberg and Olov Möller, Finspong, Sweden
Application May 28, 1932, Serial No. 614,190, and in Germany June 6, 1931
4 Claims. (Cl. 253—16.5)



1. A steam turbine of the so-called Ljungström-type, comprising overhanging shaft ends adapted for rotation in opposite directions, a disc on each of the shaft ends, blade rings carried by said discs, and additional blade ring carriers with associated blade rings interposed in the space between said two discs so as to form together with the blade rings of the discs a set of axially displaced blading sections for radial admission in series, the said interposed carriers being connected to said discs in such a way that the blade ring carriers of one disc alternate in axial direction with the blade ring carriers of the other disc.

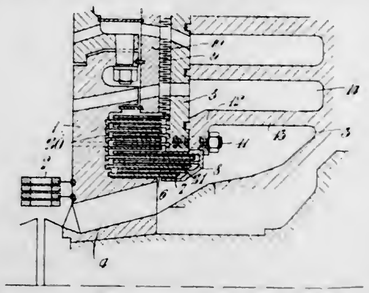
1,944,537
RADIAL FLOW ELASTIC FLUID TURBINE
Oscar Anton Wiberg and Olov Möller, Finspong, Sweden
Application June 2, 1932, Serial No. 614,989, and in Germany June 4, 1931
5 Claims. (Cl. 253—16.5)



1. In a radial flow elastic fluid turbine having blade discs rotating in opposite directions, steam chambers on both sides of the turbine, labyrinth packings in connection with said steam chambers, and a connection between intermediate points of said labyrinth packings adapted to secure a pressure equalizing between said packings.

1,944,538
RADIAL FLOW ELASTIC FLUID TURBINE
Oscar Anton Wiberg, Finspong, Sweden
Application February 23, 1933, Serial No. 658,203, and in Sweden May 6, 1931
3 Claims. (Cl. 253—16.5)

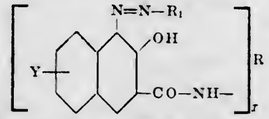
1. In a radial flow elastic fluid turbine, a rotary wheel, an admission chamber for the driving fluid, a separate end wall to bound said chamber on its side facing the turbine wheel, a partition in said chamber having a flange to engage said end wall, axial bolts extending through said flange to connect same to the end wall, a casing clamped between part of said flange and said end wall by the action of said bolts so as to project into said chamber, an outer



labyrinth packing having a substantially radially extending leakage passage provided between said end wall and said rotary wheel, and an inner packing in series with said outer packing, said inner packing comprising mutually engaging rotary and stationary axial sleeves, the rotary sleeves being carried by the turbine wheel, and the stationary sleeves being carried, in part at least, by said casing.

1,944,539
AZO DYESTUFFS AND FIBER DYED THEREWITH
Arthur Zitscher, Offenbach-on-the-Main, Heinrich Morschel, Cologne-Deutz, and Wilhelm Luce, Hofheim-on-the-Taunus, Germany, assignors to General Aniline Works, New York, N. Y., a corporation of Delaware
No Drawing. Application May 4, 1932, Serial No. 609,266, and in Germany May 11, 1931
20 Claims. (Cl. 260—95)

1. The azo dyestuffs of the following general formula:

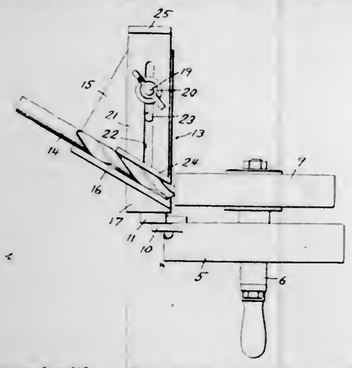


wherein x means the number 1 or 2, Y stands for an alkoxy or alkylthio group, R_1 for a radical of the benzene, naphthalene, diphenyl or anthraquinone series, and R for a radical of the benzene, naphthalene or diphenyl series, yielding, when produced on the fiber, dyeings of various shades.

1,944,540
PORTABLE DRILL VISE
Lyman E. Bailey, Logan, Kans.
Application July 11, 1933. Serial No. 679,981
2 Claims. (Cl. 51—219)

2. A portable and detachable tool bit vise of the class described comprising an adapter unit embodying a plate having a flange at one end extending angularly from the plate and disposed obliquely to the longitudinal dimension of the plate, a stud adjacent the opposite end of the plate, an adjacent guide pin on the plate, a slidable clamp unit comprising a slotted plate slidably mounted on said base plate and slidably connected with the stud and the pin, clamping

means carried by said stud and cooperating with the slotted plate, said slotted plate being provided



at one end with a clamping flange in parallelism with said first mentioned flange.

1,944,541

METHOD OF TREATING CREAM FOR INCREASING THE VISCOSITY THEREOF

Ture Viktor Bergman, Halsingborg, and Hilding Adolf Svedberg, Halmstad, Sweden

No Drawing. Application December 24, 1932, Serial No. 648,824, and in Sweden January 14, 1932

3 Claims. (Cl. 99—11)

1. The method of treating sweet cream, especially cream having a relatively high fat content, such as used for making whipped cream, for increasing the viscosity of the cream while leaving its other qualities substantially unchanged, consisting in repeatedly great cooling the cream and alternately heating the same to a temperature exceeding ordinary room temperature while avoiding temperatures sufficiently high for again fluidizing the fat solidified through said great cooling.

1,944,542

CHOLESTERIN ESTER

Max Bockmühl, Frankfort-on-the-Main, and Robert Knoll, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application July 11, 1933, Serial No. 679,982, and in Germany May 23, 1930

3 Claims. (Cl. 260—106)

1. The cholesterin esters of acids of the group consisting of chaulmoogric acid and hydnocarpic acid, said compounds being soluble in acetic acid ester and in ether, moderately soluble in alcohol and fatty oils and insoluble in water.

1,944,543

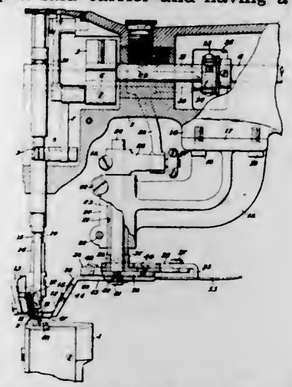
TRIMMER MECHANISM FOR SEWING MACHINES

Frederic M. Card, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application December 1, 1932. Serial No. 645,201

11 Claims. (Cl. 112—127)

1. In a sewing machine, a work-support, a bracket-arm overhanging the work-support, a vertically reciprocatory needle, work-feeding mechanism, a horizontally vibratory trimmer-knife carrier supported by said bracket-arm to overhang the work-support, a horizontally vibratory actuating lever operatively connected with said trimmer-knife carrier, a trimmer-knife secured upon said carrier and having a vertically



depending fin provided with a cutting edge opposed to the direction of feed of the work, and means for vibrating said actuating lever.

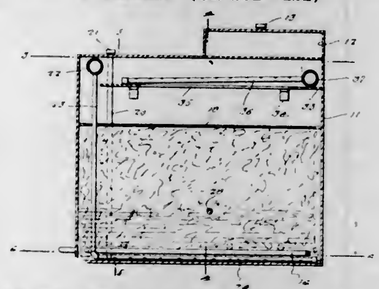
1,944,544

GAS GENERATING DEVICE

William Henry Cheney, Chattanooga, Tenn.

Application March 16, 1933. Serial No. 661,199

3 Claims. (Cl. 261—121)



1. A gas generator comprising a container, a plurality of vertical partitions in the container, porous material filling the spaces between the vertical partitions, a heater at the bottom of the said container, an air inlet below the said heater, and a liquid fuel inlet above the said air inlet and heater, the said container being provided with a gas outlet at the upper portion of the container, the said gas outlet consisting of a manifold provided with a plurality of laterally disposed branch pipes perforated and disposed over the spaces between the said partitions.

1,944,545

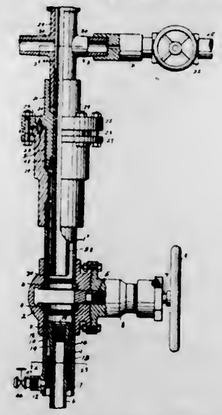
TUBING HEAD

Walter L. Church, Houston, Tex., assignor of one-half to W. L. Pearce, Harris County, Tex.

Application January 24, 1933. Serial No. 653,275

10 Claims. (Cl. 166—15)

1. A tubing head having a gate valve associated therewith and a side outlet above said valve, a vertically movable extension pipe having a close fit in the head and sealing means therearound above and beneath said outlet, a flow pipe in the well whose upper end terminates beneath said valve, a seal around said upper end forming a fluid tight joint between said flow pipe and the well casing, the extension pipe normally forming a continuous conduit with the flow pipe, means for moving said extension pipe upwardly from the flow pipe to permit the valve to be closed, said extension pipe having a longitudinal side slot in constant communication with the outlet.



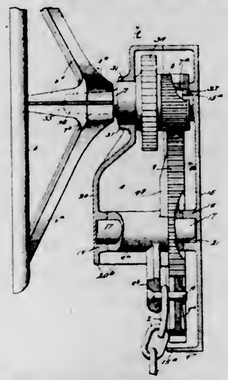
1,944,546

HAND BRAKE MECHANISM

Thomas K. Cummins and Clyde L. Emry, St. Paul, Minn., assignors to Northern Malleable Iron Company, St. Paul, Minn., a corporation of Minnesota

Application September 9, 1929. Serial No. 391,132

7 Claims. (Cl. 254—149)



6. In a brake controlling device of the character described, means for operating the same, said means including a drum, a gear attached thereto, a chain arranged to be wound on the drum, and radial ribs extending in the path of the chain and arranged to guide the chain in helical formation around the drum.

1,944,547

CARBURETOR

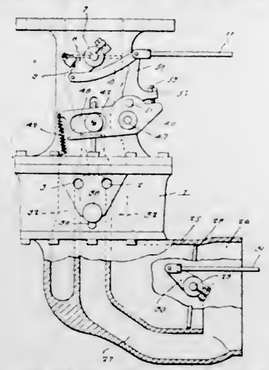
Ely J. Dansreau, Flint, Mich.

Application November 28, 1932

Serial No. 645,933

4 Claims. (Cl. 261—41)

1. A carburetor of the class described comprising a floatless bowl, having a fuel inlet and an outlet, a tubular part connected to the top of the bowl, a throttle valve in the upper portion of said part, a Venturi member supported for vertical movement in said part below the valve, an air conduit in communication with the lower end of said part, said bowl having a group of passages therein connecting the lower end of said tubular



part with the fuel space of the bowl, said passages being superimposed, a valve controlling said group of passages and progressively uncovering the passages as the valve moves upwardly, and means for raising said valve and the Venturi member as the throttle is opened.

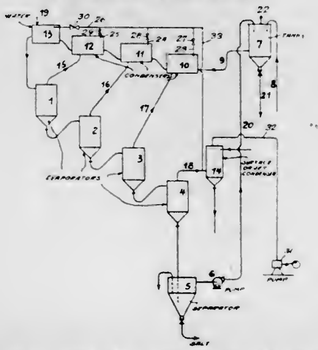
1,944,548

PROCESS OF THE SEPARATION OF SOLID SUBSTANCES FROM LIQUID BY VACUUM COOLING IN STAGES

Karl Ebner, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y., a corporation of New York

Application June 30, 1932, Serial No. 620,273, and in Germany July 15, 1931

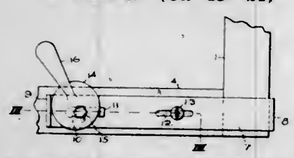
14 Claims. (Cl. 23—1)



1. In the process of recovering solids from solutions thereof comprising passing a solution through a series of evaporators each one of which is maintained at a higher vacuum than the preceding one in the series, passing the vapors from each evaporator to a separate condenser, passing the solution from the last evaporator through said condensers and returning at least a part of the solution leaving the last condenser to the first evaporator, the step which consists in mixing fresh salt solution with the partially evaporated solution after it has left the last evaporator and separating from the resulting mixture any non-liquid material prior to the delivery of the mixture to the first evaporator.

1,944,549
CURTAIN STRETCHER FRAME
John Ellis, Pittsburgh, Pa., assignor to Acme Hough Manufacturing Company, Pittsburgh, Pa.

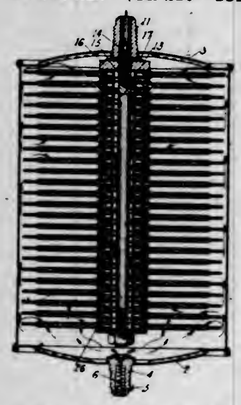
Application September 20, 1933
Serial No. 690,203
3 Claims. (Cl. 45—24)



1. In a curtain stretcher frame wherein three of the bars thereof are employed in flush relation, the combination with one end of each of said bars of a longitudinally disposed clamping strap having a turned over clamping extremity and each slidably connected to the bar for longitudinal movement, said clamp strap adapted to be flush with and extend over the surface of the companion bar with the turned over portion disposed over the outer edge thereof, and a cam lever pivotally attached to the bar at the strap and adapted to cooperate with said strap to actuate the same in clamping and unclamping.

1,944,550
FILTERING SYSTEM
George R. Ericson, Maplewood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application February 26, 1932. Serial No. 595,300
14 Claims. (Cl. 210—181)

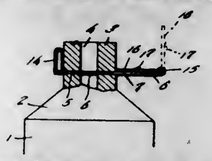


1. A filter having a plurality of filter elements therein, each of said elements comprising one or more sheets of fibrous filtering material, the individual fibres of said material being impregnated with a water proof material, said waterproof material being applied in such small quantities as not to substantially increase the size of the individual fibres or to fill up the interstices between the fibres.

1,944,551
CONTAINER
George E. Forknall, Niagara Falls, N. Y.

Application March 21, 1933. Serial No. 661,991
3 Claims. (Cl. 221—60)

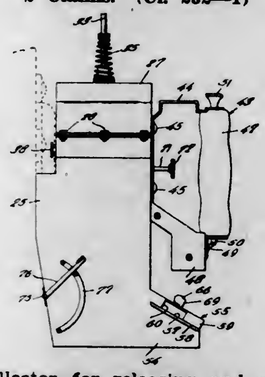
1. A container comprising a neck having a discharge passage therein a slide valve operatively mounted in the neck for controlling the discharge passage, an upstanding, substantially U-shaped resilient stop integral with one end of the slide valve and engageable with one side of the neck for yieldingly limiting the movement of said slide



valve in one direction, and a latch hingedly mounted on the other end of the slide valve and engageable, at its free end on the opposite side of the neck for releasably locking said slide valve in its closed position.

1,944,552
MINE CAR CHECK LOCKS AND COLLECTORS
Roy B. French, Superior, W. Va.

Application June 1, 1933. Serial No. 673,916
2 Claims. (Cl. 232—1)



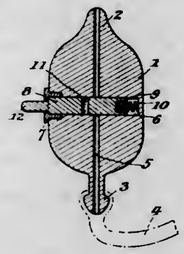
1. A collector for releasing and receiving a mine car check from a check lock, said lock having a casing for the reception of the check and magnetic force responsive means for releasably securing the check in the casing, said collector including a housing having a chamber therein for the reception of the check, an electromagnet mounted in the housing for actuating the check securing means, and a control switch for the magnet operatively engageable with the casing for actuation to closed position thereby.

1,944,553
DOUCHE
Emahuel M. Freund, Albany, N. Y.

Application June 24, 1929. Serial No. 373,385
1 Claim. (Cl. 128—229)

A douche nozzle comprising a body circular in cross section and of an even diameter throughout the greater portion of its length, the diameter of the body being substantially one-half its length, said body having a tube engaging nipple formed integral with its rear end and the front end of the body being abruptly tapered and merging into a short tip tapered towards its outer end, a bore being formed axially through said body with its ends opening through the nipple and tip, the body being also formed with a transversely extending pocket intermediate its length intersecting said bore and open only at one end, the pocket being of less length than the diameter of the body to provide a closed end for the pocket

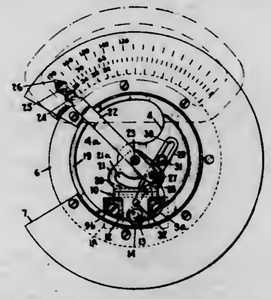
and the open end of the pocket being enlarged and threaded, a slide valve in said pocket formed with a transversely extending passage intermediate its length, the outer end of the valve being reduced in diameter to form a stem projecting outwardly from the body, a spring be-



tween the inner end of said valve and the closed end of the pocket yieldably holding the valve extended with its passage out of registry with the bore of the body and a retainer to limit outward movement of the valve screwed into the enlarged outer end of the pocket and formed with an opening slidably receiving the stem of the valve.

1,944,554
INDICATOR
Howard A. Gates, Buffalo, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y., a corporation of New York

Application June 9, 1932. Serial No. 616,214
3 Claims. (Cl. 116—124.3)

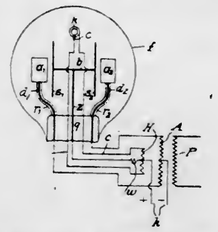


1. Indicating apparatus comprising, in combination, a rotary element, a dial carried thereby, a frame, a pointer pivoted on said frame for rotation across said dial, a link pivoted on said frame at one end and having its other end carried by said rotary element and a connection between said link and said pointer.

1,944,555
ELECTRICAL DISCHARGING RECTIFIER WITH A PLURALITY OF ANODES
Werner Germershausen, Berlin-Oberschoneweide, Germany

Application December 20, 1928, Serial No. 327,295, and in Germany February 14, 1928
8 Claims. (Cl. 250—27.5)

1. An electrical discharge rectifier, comprising an evacuated receptacle, a cathode and a plurality of anodes within said receptacle, and a body of conductive material between said anodes having solid walls adjacent the said anodes, said walls having areas larger than the areas of said anodes, the dimension between the margins of said surface areas having a value similar to the width of said areas, and said body being concave



at the sides adjacent said anodes and encompassing said anodes.

1,944,556
HYDRAULIC UNDERREAMER
Alonzo L. Halliday and Fred Jones, Ventura, Calif.

Application July 6, 1931. Serial No. 548,859
7 Claims. (Cl. 255—76)



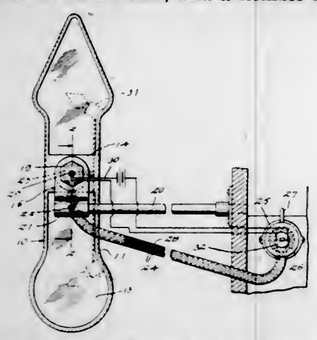
1. In a device of the character disclosed, a body, a sleeve therein provided with a pair of spiral slots, a plunger including a head, and a tubular shank, said shank being movable within said sleeve, a shaft provided with an elongated slot, and means passed through the slot of the shaft and through the tubular shank and received in said spiral slots whereby reciprocation of said plunger within said sleeve produces rotary movement of said shaft.

1,944,557
DIRECTION SIGNAL
Richard B. Eisold, Ludlow, Mass.

Application April 14, 1932. Serial No. 605,288
1 Claim. (Cl. 116—48)

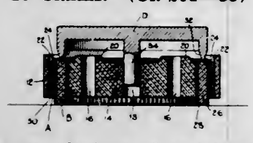
A direction signal comprising a housing including a frame open at the front and rear sides, transparent walls closing the front and rear sides of the frame, a plate connecting opposed portions of the frame, a shaft having an axial bore and a peripheral groove, threads on one end of the shaft for threadably connecting the shaft to the plate, a head on the other end of the shaft, a vertical bracket arm through which the shaft loosely extends, a horizontal arm engaging the bracket arm to hold the bracket arm in outstanding position, a flexible tube connected at one end to said bracket arm, an operating pulley, a

housing about said pulley and connected to the opposite end of said tube, and a flexible member



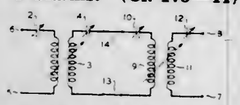
extending through the tube and trained over the groove of said shaft and said pulley.

1,944,558
RESISTOR
Lester L. Jones, Oradell, N. J.
Application January 25, 1930. Serial No. 423,291
10 Claims. (Cl. 201—55)



1. In the manufacture of variable high resistances comprising a high resistance surface, and severed wire windings in contact therewith, the method which includes simultaneously cutting all of the windings by forcing a cutting edge lying in a plane parallel to the plane of the windings against the windings in a direction transversely of the plane thereof, in order to prevent the ends severed thereby from being burred or abraded into contact with one another.

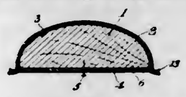
1,944,559
SELECTIVE CIRCUITS FOR VOICE FREQUENCY CARRIER TELEGRAPH SYSTEMS
Leo A. Kelley, Jackson Heights, N. Y., assignor to International Communications Laboratories, Inc., New York, N. Y., a corporation of New York
Application March 2, 1931. Serial No. 519,415
5 Claims. (Cl. 178—44)



1. The method of producing selectivity in electrical circuits containing inductance coils and condensers responsive on a predetermined band width at a particular resonant frequency, which consists in assigning to said coils the same value of inductance, coupling said coils in pairs and adjusting the coupling to suit said frequency and band width, and regulating the capacity of said condensers according to said frequency.

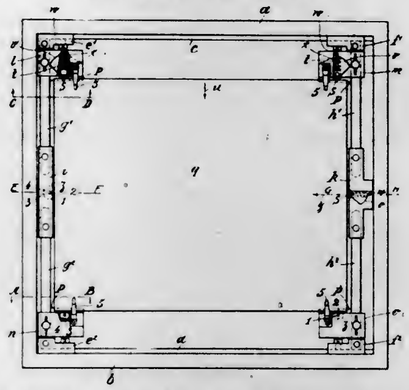
1,944,560
METHOD OF MAKING SHOES
William J. Kelly, Brooklyn, N. Y., assignor of one-half to Arthur D. Basch, Brooklyn, N. Y.
Application November 1, 1930. Serial No. 492,674
27 Claims. (Cl. 12—145)

1. The method of making shoes, which comprises, mounting an insole on a last, pulling an upper downwardly simultaneously at opposite sides of the last, driving tacks through the upper



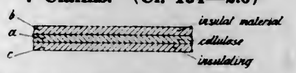
and into the edges of the insole while the upper is being pulled, and attaching a sole to the upper.

1,944,561
PHOTOGRAPHIC DARK SLIDE DEVICE
Johann Kronschnabl, Munich, Germany, assignor of part interest to August Boettger, Munich, Germany
Application May 17, 1932, Serial No. 611,836, and in Germany May 21, 1931
4 Claims. (Cl. 95—69)



1. In a dark slide for holding two superimposed photographic plates, three pairs of rigid stops engaging two sides of the plates at three points, and three spring pressed stops engaging the two opposite sides of the plates at three points, the plates being free of said stops throughout substantially all their boundaries.

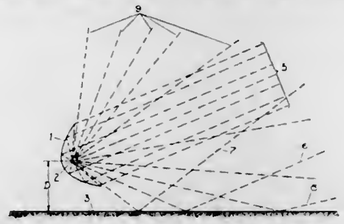
1,944,562
MANUFACTURE OF INSULATING MATERIAL
Abraham Kronstein, Karlsruhe, Germany, assignor to the firm Electra-Lackwerke G. m. b. H. System Dr. Kronstein, Karlsruhe, Germany
Application March 13, 1928, Serial No. 261,417, and in Germany July 2, 1927
7 Claims. (Cl. 154—2.6)



1. As new articles of manufacture electrically insulating units, comprising thin, fibreless, unsaponifiable carrying sheets of viscose-like, solid regenerated cellulose and a coating of solidified linseed-oil oxidation products.

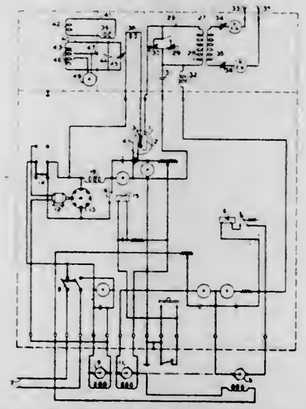
1,944,563
DIRECTIONAL RADIO BEAM SYSTEM
Geoffrey G. Kruesi, New York, N. Y., assignor to Federal Telegraph Company, Palo Alto, Calif., a corporation of California
Application July 29, 1931. Serial No. 553,777
5 Claims. (Cl. 250—11)

5. In a radio system, the combination of a horizontal reflecting surface, and means for radiating polarized radio waves of wavelength λ in a predetermined direction at a vertical angle α with respect to said surface, said radiating means



being positioned above said surface a distance directly proportional to λ and inversely proportional to the sin α.

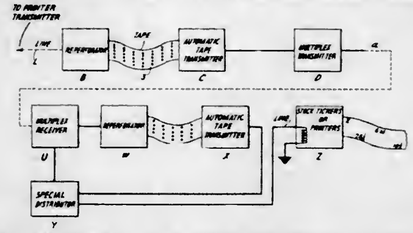
1,944,564
WAVE METER
Elmer F. Lewis, East Orange, N. J., assignor to International Communications Laboratories, Inc., New York, N. Y., a corporation of New York
Application August 13, 1930. Serial No. 474,910
5 Claims. (Cl. 250—39)



1. In a radio transmission system, an oscillator having grid and plate circuits an inductance in said grid circuit, and means magnetically coupled with said grid circuit inductance for indicating the frequency of said oscillator, said means comprising a link circuit, a tuned circuit inductively coupled to said link circuit, and a loop circuit including a thermoammeter, said loop circuit being inductively coupled to said tuned circuit.

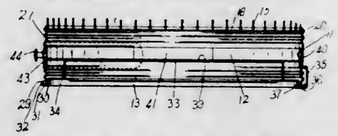
1,944,565
TRANSMISSION OF PRINTER SIGNALS BY RADIO
Richard E. Mathes, Westfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 15, 1932
Serial No. 633,257
6 Claims. (Cl. 178—52)

1. In a printing telegraph system having start-stop printer mechanism and synchronous apparatus for transmitting signals received from said start-stop mechanism, the method of transmission which comprises, translating start-stop printer signals into synchronous type of signals, transmitting each of the synchronous type of signals at predetermined intervals a plurality of times, receiving and storing said synchronous



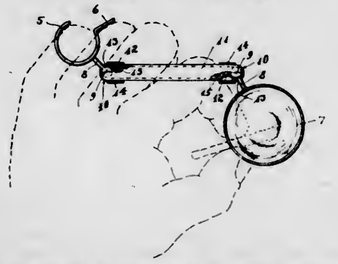
type of signals, and subsequently reconverting said synchronous type of signals into start-stop printer signals.

1,944,566
BIRD CAGE
Frank V. Meindl, Chicago, Ill., assignor to The Andrew B. Hendryx Company, New Haven, Conn.
Application November 16, 1929
Serial No. 407,688
6 Claims. (Cl. 119—17)



1. A bird cage comprising a body portion including a horizontally disposed rail and a plurality of vertically disposed and peripherally spaced apart rods secured at their lower ends to said horizontally disposed rail, and a band wrapped about said rail and having its upper edge permanently secured thereto, said band having an opening in the wall thereof, a drawer having an upwardly directed edge movable through the opening in the wall of said band, said rail inwardly overhanging said edge of said drawer, a removable bottom plate abutting the lower edge of said band, and a strip-like member having its ends secured to said bottom plate and extending upwardly into engagement with, across the bottom surface of, and at substantially the median line of said drawer to support the same.

1,944,567
ADJUSTABLE LENS HOLDER
Thomas E. Millington, Pasadena, Calif.
Application March 27, 1933. Serial No. 662,979
3 Claims. (Cl. 88—39)



1. In a device of the class described, finger and lens supporting pieces having each a neck portion and a ball end, a tubular handle member partially closed at the ends to engage over the ball

ends and so as to leave the neck-portions free to swing to different angles with respect to the longitudinal axis of the tubular member, and a spring inserted in the tubular member so as to hold the ball-ends towards the partially closed tubular ends of the handle.

1,944,568
PROCESS FOR THE MANUFACTURE OF AROMATIC SULPHODIHALOGENAMIDES

Hans Mirau, Radebeul, Germany, assignor to Chemische Fabrik von Heyden, A. G., Radebeul, near Dresden, Germany, a corporation of Germany

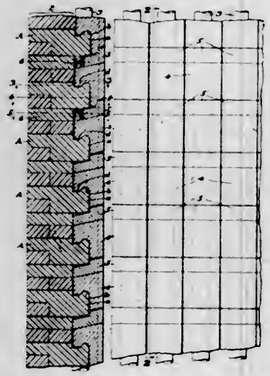
No Drawing. Application May 18, 1931, Serial No. 538,250, and in Germany June 27, 1930
8 Claims. (Cl. 260—158)

1. The process of manufacturing aromatic sulphodichloramides of the benzene series, said process comprising acting upon an aromatic sulphoamide of said series with an alkali-metal hypochlorite, and introducing carbon dioxide into the mixture of aforesaid substances.

1,944,569
WATER COOLED FURNACE WALL

Oscar Nygaard, Saugus, Mass.

Application December 22, 1928
Serial No. 327,949
30 Claims. (Cl. 122—6)



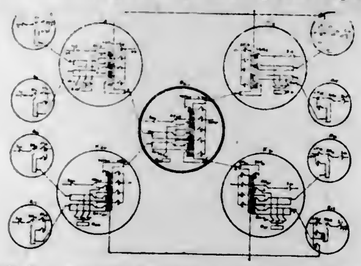
1. In a furnace wall, the combination of a permanent wall section, tubes at the forward side of said section, and a facing of highly refractory bricks supported on said permanent wall section for removal therefrom at the fire side of the wall and covering substantially the entire widths of said tubes at the fire sides thereof, and serving to protect said section and said tubes.

1,944,570
ARRANGEMENT RELATING TO AUTOMATIC TELEPHONE SYSTEMS

Axel Herman Olson and Sten Daniel Vigren, Stockholm, Sweden

Application November 3, 1932, Serial No. 640,975, and in Sweden November 20, 1931
10 Claims. (Cl. 179—18)

1. In an automatic telephone system, a plurality of full automatic terminal exchanges, and a plurality of full automatic intermediate exchanges, direction selectors in said terminal exchanges, impulse accumulating and transmitting registers at said intermediate exchanges only, subscribers' lines terminating at said exchanges, impulse transmitting dials associated with each one of said lines, and means controlled from said terminal exchanges for actuating said registers to

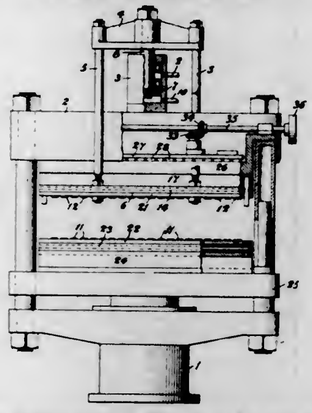


establish connections between a plurality of exchanges.

1,944,571
MOLDING MACHINE

Walter E. Rahm, Montclair, N. J., assignor to Plastic Products Engineering Corporation

Application July 30, 1932. Serial No. 626,366
8 Claims. (Cl. 18—17)

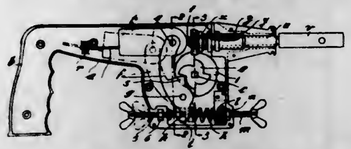


1. In combination with a molding machine of the class described adapted to form a threaded portion in the object to be molded, of a thread forming member mounted and adapted to be rotated in a fixed plane, and means mounted and incorporated in the molding machine for unscrewing the thread forming member from the molded object and ejecting the same from the mold.

1,944,572
PERCUSSIVE HAND TOOL

John Joseph Rawlings, South Kensington, London, England, assignor to The Rawlplug Company Limited, London, England

Application February 11, 1933, Serial No. 656,319, and in Great Britain February 27, 1932
2 Claims. (Cl. 255—41)



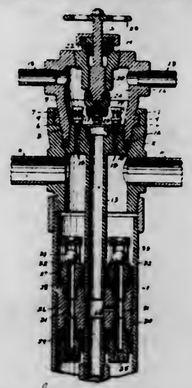
1. A percussive hand tool comprising a casing, a lever pivotally mounted in said casing, a hammer pivoted to the end of said lever, a cam wheel mounted for rotation in said casing and adapted

to engage said lever, a spring acting upon the other end of said lever for bringing it back to its normal position after engagement by said cam wheel and for imparting the required impulsion to the hammer, means for adjusting the stress of said spring, a rotatable tool holder supported and guided in the casing so as to receive the blows of the hammer, a toothed wheel mounted to rotate in the casing coaxially with the tool holder, means for preventing axial movement of said toothed wheel which has a hole engaged by said tool holder, the arrangement being such that the tool holder can freely move axially and rotate by the turning movement of the toothed wheel, a second cam wheel having helical ribs engaging the teeth of said toothed wheel, and means for simultaneously driving both cam wheels, substantially for the purpose set forth.

1,944,573
CONTROL HEAD

William A. Raymond and Granville A. Humason, Houston, Tex.

Application October 12, 1931. Serial No. 568,422
19 Claims. (Cl. 166—14)

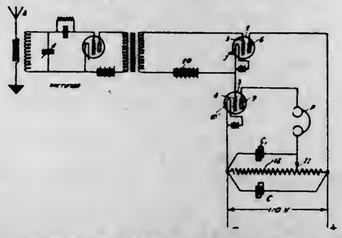


1. The combination with an outer casing and an inner tubing therein, in a well, of a bowl on said casing having a seat and a wall opening beneath said seat, a tubing hanger seated on said seat supporting said tubing and means around the tubing, beneath said opening, closing the space between the tubing and casing against the downward passage of fluid, said hanger having a passageway for fluid leading upwardly from said space above said closing means.

1,944,574
POSITIVE GRID BIAS

Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 28, 1929. Serial No. 402,920
10 Claims. (Cl. 179—171)

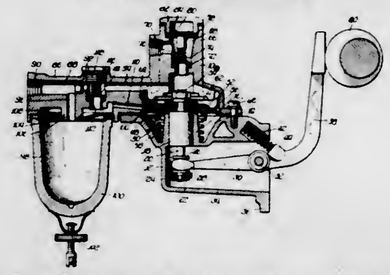


1. A method of operating an electron discharge amplifier tube including an anode, cathode and grid which consists in constantly biasing said grid with a positive potential relative to the cathode, adjusting the anode potential, and maintaining the positive biasing potential on the grid at such a value relative to the cathode that the resistance component of impedance to alternating voltage between the grid and cathode is negative throughout the entire operation of the tube.

1,944,575
FUEL PUMP

Edward A. Rockwell, Chicago, Ill.

Application December 11, 1930
Serial No. 501,503
5 Claims. (Cl. 103—154)

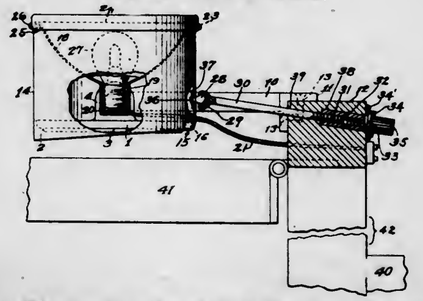


1. In a fuel pumping system, a pump comprising a pump casing having a pumping chamber therein, an inflow passage leading to said pumping chamber, a solid piston forming a movable wall of said pumping chamber, a fuel receiving and sediment trapping chamber included in the inflow passage, an inlet check valve in the inflow passage beyond said trapping chamber, the top portion of said trapping chamber being above the opening of the inflow passage leading to said inlet check valve whereby a vacuum will be trapped therein, said pump casing having a chamber beneath the piston into which fuel may leak from the pumping chamber and a communicating passage between the top portion of said trapping chamber and said leakage-receiving chamber.

1,944,576
COMBINATION ROAD LIGHTING AND REFLECTING SAFETY DEVICE FOR MOTOR VEHICLES

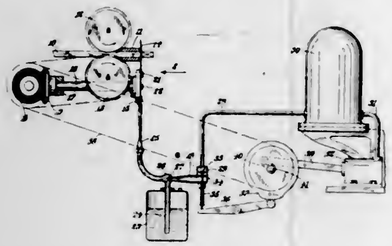
William John Roepke, Los Angeles, Calif.

Application May 28, 1930, Serial No. 456,595
Renewed June 16, 1933
7 Claims. (Cl. 240—61.13)



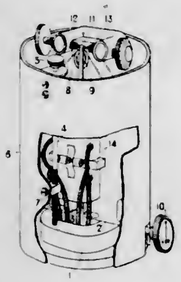
1. The combination with a lamp; of a mirror mounted inside the lamp and adapted and arranged to direct reflection of rearward objects; and means to direct the lamp and its light rays at different angles while the mirror inside the lamp remains at a fixed angle.

1,944,577
MACHINE OR APPARATUS FOR CUTTING PLASTIC TOFFEE OR LIKE MATERIAL
Alfred German Rose, Lincoln, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British Company
Application July 23, 1931, Serial No. 552,788, and in Great Britain July 30, 1930
2 Claims. (Cl. 107—22)



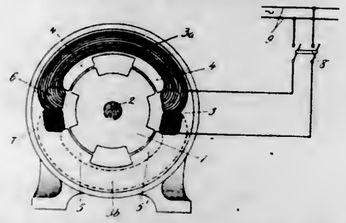
2. In apparatus for severing plastic material, the combination with a cutting mechanism including a rotatable knife carrier and a disc-shaped knife having a peripheral cutting edge and eccentrically mounted on the carrier, of an atomizer for applying a well distributed mist of lubricant over the knife, said atomizer having a nozzle directed towards the knife, a fluid reservoir, an air injector and a valve interposed between said fluid reservoir and air injector, said valve being operated in a predetermined relationship to the cutting mechanism.

1,944,578
MEANS FOR ADJUSTING FIELD STRENGTH IN ELECTROMAGNETIC DEVICES
Reginald Dennis Salmon, Croydon, England, assignor to Creed and Company, Limited, Croydon, England
Application February 25, 1931, Serial No. 518,120, and in Great Britain March 26, 1930
6 Claims. (Cl. 175—336)



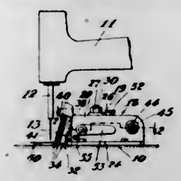
1. In an electromagnetic device such as a polarized relay, means for adjusting field strength comprising in combination, relatively fixed pole pieces having exposed faces, a permanent magnet held on to said faces by magnetic attraction, and an adjusting screw bearing against an extension of said magnet to tilt it against said magnetic attraction on said faces to introduce a wedge shaped air gap therebetween.

1,944,579
SYNCHRONOUS ALTERNATING CURRENT MOTOR
Karl Schmidt, Berlin-Lichtenrade, and Kurt Schöler, Berlin-Ruhleben, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany
Application January 27, 1930, Serial No. 423,665, and in Germany May 3, 1929
1 Claim. (Cl. 172—275)



A single phase synchronous motor for driving directly a talking machine and comprising a stator having but one pair of poles, each pole surrounding approximately one-half the circumference of the rotor surface; a winding for each pole and connectible to a source of alternating current, each of said poles being slotted to provide a plurality of teeth, the rotor also being slotted to provide a plurality of teeth the pitch of which is equal to the pitch of the stator teeth, and all the teeth of the rotor being directly opposite the stator teeth.

1,944,580
PINKING ATTACHMENT FOR SEWING-MACHINES
Victor J. Sigoda, Brooklyn, N. Y.
Application January 6, 1930. Serial No. 418,790
16 Claims. (Cl. 112—124)

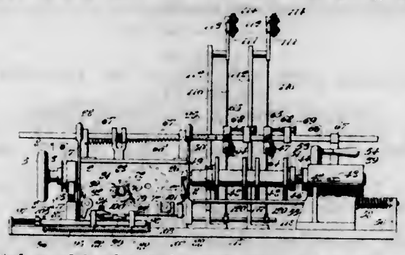


1. In a sewing machine, a pinking attachment comprising a unit including a frame structure adapted to be attached to the bed-plate of the sewing machine, a rotary pinking wheel, means for driving the pinking wheel adapted to be operated by the feed-dog of the sewing machine, said pinking wheel being mounted in the frame structure for regulating the pressure which it exerts on the work.

1,944,581
COIL WINDING MACHINE
Edward Snyder, Fort Wayne, Ind., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application August 12, 1930. Serial No. 474,724
8 Claims. (Cl. 242—25)

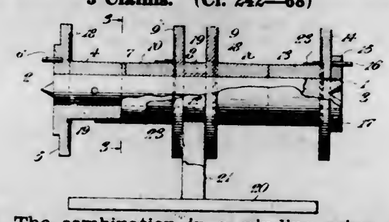
1. The combination in a coil winding machine of a power shaft, a control switch, a brake, a starting lever, means operated by said starting lever for releasing said brake and actuating said switch, a lock for holding said starting lever against movement after operation thereof, means

for disconnecting said switch and applying said brake and a second lever for reactuating said



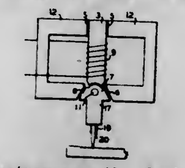
switch and brake independently of said starting lever.

1,944,582
MANDREL
Edward Snyder, Fort Wayne, Ind., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application August 12, 1930. Serial No. 474,725
3 Claims. (Cl. 242—68)



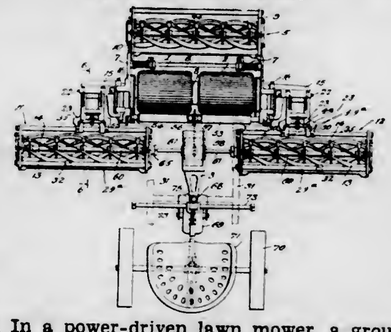
1. The combination in a winding arbor of a central hub member, separable hub members adapted to cooperate with the opposite ends of said central hub member, circular flanges on said members forming end faces means for clamping said hub members together to form coil winding spools and means for non-rotatably supporting said central hub member.

1,944,583
ELECTRICAL PICK-UP
Sigurd A. Sollie, Burlingame, Calif., assignor to Federal Telegraph Company, Newark, N. J., a corporation of California
Application November 19, 1931, Serial No. 576,057, and in Great Britain November 24, 1930
5 Claims. (Cl. 179—100.41)



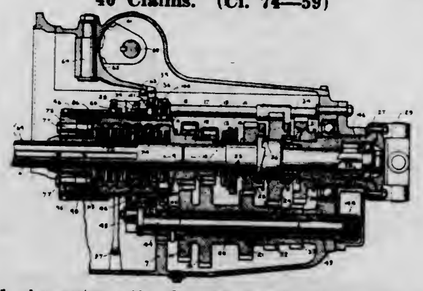
3. In an electromagnetic device operable to convert oscillatory mechanical energy into corresponding oscillatory electrical energy and vice versa, a pivotally supported armature, a magnetic field structure comprising a north pole piece having two legs, a south pole piece having two legs in opposed relation to the respective legs of the north pole pieces, and a neutral pole piece secured at one end to one pair of opposed legs and having its other end free and disposed in proximity to said other pair of legs, said armature and its pivotal axis being disposed directly between said north and south pole pieces in the space between the opposed legs and juxtaposed free end of the neutral pole piece, there being an air gap between said armature and each of said north and south pole pieces, said neutral pole piece being closely adjacent said armature and forming therewith a magnetic air gap of substantially constant reluctance, said armature being arranged to swing about its pivotal axis toward said north and south pole pieces alternately, and a coil so disposed as to be variably energized in accordance with magnetic flux variations in said neutral pole piece.

1,944,584
POWER-DRIVEN LAWN MOWER
Henry J. Stegeman, Fairfield, and Leslie W. Barnes, Trumbull, Conn., assignors to The Locke Steel Chain Company, Bridgeport, Conn., a corporation of Connecticut
Application July 1, 1931. Serial No. 548,116
54 Claims. (Cl. 56—7)



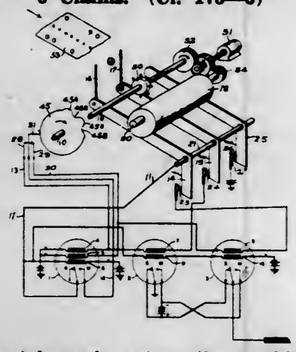
1. In a power-driven lawn mower, a ground-engaging tractor roll having a frame mounted thereon, a plurality of cutters connected to said frame to be moved thereby upon movement of the roll, said cutters overlapping to cut a single swath, and counterbalancing means between said frame and each of said units, said means transmitting to the frame and thus to the roll a substantial amount of the weight of each of said cutters.

1,944,585
AUTOMATIC CHANGE SPEED MECHANISM
Russell W. Todd, Bronxville, N. Y.
Application June 15, 1929, Serial No. 371,184
Renewed June 13, 1933
40 Claims. (Cl. 74—59)



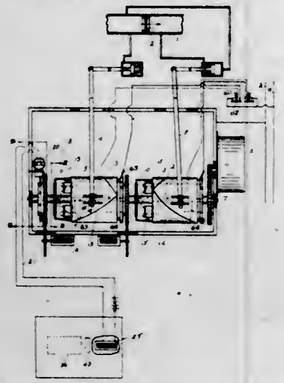
1. An automatic change-speed mechanism for automobiles, comprising means movable to successively connect a plurality of drives of different ratio between the engine and the vehicle wheels, a speed responsive device, a torque responsive device, and a common control means differentially operated by both of said devices and associated with said movable means whereby the latter is operated to vary the transmission ratio in accordance with both speed and torque.

1,944,586
AUTOMATIC TRANSMISSION OF SYNCHRONIZING PULSES
Marion H. Woodward, Brooklyn, N. Y., assignor to International Communications Laboratories, Inc., Newark, N. J., a corporation of New York
Application January 23, 1932. Serial No. 588,373
6 Claims. (Cl. 178—3)



1. In a telegraph system, the combination of a sending station, a line, an automatic tape transmitter at the sending station, a pair of biased transmitting relays controlled by said transmitter, a biased marginal relay having two operating coils, each one being in series connection with one of said transmitting relays, said marginal relay being operative upon the excitation of both its operating coils to condition a circuit for periodically transmitting a predetermined combination of impulses over the line for maintaining synchronism in said system.

1,944,587
HEAT MEASURING APPARATUS
Archer E. Young, Pittsburgh, Pa.
Application May 4, 1932. Serial No. 609,070
9 Claims. (Cl. 73—184)



1. In gas measuring apparatus and in combination with a conduit, a member movable in a given interval of time through a range great or less, according to the quantity of gas flowing through the conduit, a calorimeter including a second member movable in response to variation in the heat value of the gas flowing in the conduit, an integrating mechanism including a third movable member, and means controlled by the second member for imparting movement from the first member to the third, such means being effective during a greater or less portion of such interval of time, according to the simultaneous position of the second member.

1,944,588
PROCESS FOR JAPANNING ON CONCRETE SURFACES
Sotojiro Asobe, Kanazawashi, Japan
No Drawing. Application September 13, 1930, Serial No. 481,805, and in Japan April 2, 1930
5 Claims. (Cl. 91—68)

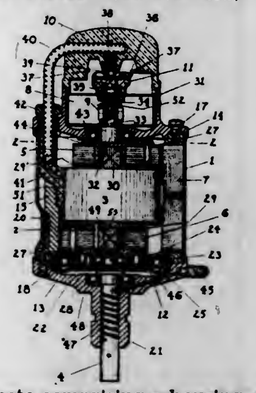
1. The process of japanning concrete surfaces, which consists in applying a ground layer of material comprising a mixture of raw japan, asphalt, jinoko and tonoko, thereafter applying a second layer comprising a mixture of raw japan and jinoko, and finally applying a finishing layer of japan.

1,944,589
LEAKPROOF COLLAPSIBLE TUBE
Gustave Aufricht, New York, N. Y.
Application July 21, 1933. Serial No. 681,409
3 Claims. (Cl. 221—60)



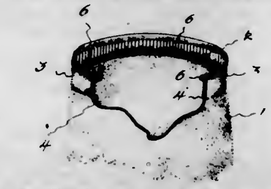
1. In a collapsible tube, an outlet neck of substantially uniform exterior diameter throughout, the front end of the neck being closed and exteriorly threaded, lateral outlet openings through the neck rearwardly of said front end, additional exterior threads on the neck rearwardly of said openings, and an open-ended cap enclosing said neck and provided with two sets of threads adapted, respectively, to engage said forward threads and said additional threads, the cap portion between said two sets of threads being provided with a longitudinal recess to permit the material in the tube to emanate through said outlet openings and around said stem when the cap is unscrewed.

1,944,590
IGNITION MAGNETO
Louis Beeh, Longmeadow, Mass., assignor to United American Bosch Corporation, Springfield, Mass., a corporation of New York
Application July 21, 1933. Serial No. 681,554
24 Claims. (Cl. 171—252)



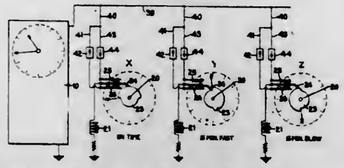
3. A magneto comprising a housing, stationary windings therein, rotatable inductors, and stationary magnets arranged at spaced points in said magneto around said windings and extending transversely with respect to the axis thereof.

1,944,591
HOSIERY
Walter P. Brown, New Haven, Conn.
Application February 20, 1932. Serial No. 594,291
2 Claims. (Cl. 66—173)



1. The method of manufacturing hosiery comprising the knitting of an inwardly turned top having a constricted inner portion or fold composed of elastic thread, an outer portion or fold composed of thread of which the body of the piece is composed, and said inner portion or fold being composed of less wales than employed in the knitting of said outer portion or fold thereby effecting constriction of said inner fold.

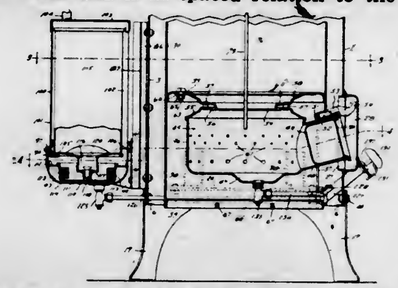
1,944,592
ALTERNATING CURRENT AND DIRECT CURRENT SECONDARY CLOCK WITH INDIVIDUAL RECTIFIER
James W. Bryce, Bloomfield, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 10, 1930
Serial No. 494,481
7 Claims. (Cl. 58—26)



1. A secondary clock with a supply circuit leading thereinto upon which A. C. and D. C. impulses are impressed, an impulse magnet of the D.C. type, an arbor shaft and pawl and ratchet devices actuated by the impulse magnet for imparting step by step advance to said shaft and a rectifying device in said secondary clock intermediate the supply circuit and the impulse magnet to supply current of uni-directional characteristic to the said impulse magnet irrespective of the character of the current impulses supplied to the supply circuit by the master clock to prevent chattering action of the impulse magnet actuated clock parts.

1,944,593
HEATING APPARATUS
Lee S. Chadwick, Shaker Heights Village, and Marc Resek and Charles J. Kessler, Cleveland Heights, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application October 13, 1930. Serial No. 488,210
22 Claims. (Cl. 126—93)

1. Heating apparatus comprising, in combination, a fuel basin having means for admitting primary air thereto, and a combustion chamber above the same having a neck that projects into the basin and is in spaced relation to the rim



thereof so that secondary air that is drawn in through the space between the combustion chamber and fuel basin is deflected downwardly into the basin.

1,944,594
OUTSIDE CUTTING TOOL
Walter L. Church, Louis M. Pearce, and Jack K. Clark, Houston, Tex.
Application June 14, 1932. Serial No. 617,140
8 Claims. (Cl. 81—189)

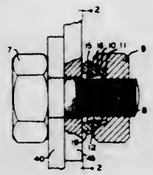


1. An outside pipe cutter comprising a tubular cutter body shaped to be lowered over a pipe to be cut, a cutter therein pivoted at its upper end, an actuator sleeve longitudinally movable in either direction in the body, a cutter actuator on said sleeve and adapted to engage the cutter and to actuate the cutter inwardly, means on said sleeve normally interlocked with the body and maintained inactive, said means being releasable upon the downward movement of the actuator sleeve in the body and upon such release being arranged to engage an external projection on the pipe to hold said sleeve and actuator stationary whereby said cutter is forced inwardly upon the downward movement of the body.

1,944,595
LOCK NUT
George A. Crowther, Jackson Heights, N. Y., assignor to International Safety Lock Nut Corporation, New York, N. Y., a corporation of Delaware
Application June 29, 1932. Serial No. 619,889
6 Claims. (Cl. 151—19)

5. The combination of a nut having in the base thereof an annular groove of wedge-shaped

cross-section concentric with the axis thereof and a split internally threaded sleeve portion extending below said base, the outer wall of which forms the inner wall of the groove, and an an-



nular washer surrounding said sleeve portion, depending therefrom and rotatable thereon, and having an annular projection of wedge-shaped cross-section extending into said annular groove for engaging the walls thereof.

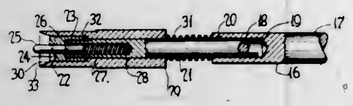
1,944,596

MEANS FOR TENSIONING WIRE WHEELS

Warren H. Farr, Obed E. Smith, and Carolus L. Eksergian, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 3, 1931. Serial No. 560,956

4 Claims. (Cl. 29—87)



1. An automatically operated mechanism for effecting a threading operation comprising a drive shaft having combined rotary and reciprocatory movements, a tool operatively connected with said drive shaft for movement therewith, means engaging the work internally and additional means engaging the work externally for centering it relatively to said tool, and yieldable means interconnecting said tool and both said centering means whereby to afford provision for a relative reciprocatory movement therebetween and to permit the internal centering means to continue in operative relation to the work after the external means has been moved to inoperative position by engagement with the work.

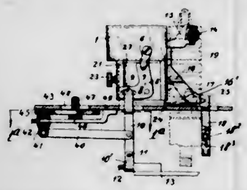
1,944,597

INKING APPARATUS FOR TYPEWRITING MACHINES HAVING TYPE CYLINDERS

Oskar Fischer, Kappelhof, near Friedrichshafen, Germany

Application January 23, 1932, Serial No. 588,399, and in Germany May 1, 1926

12 Claims. (Cl. 197—150)



1. An inking apparatus, comprising an ink container, a valve controlling the delivery of ink from said container, a spring acting on said valve for closing the same, means for adjusting the tension of said spring, and a member adapted to be moved across the opening of said valve for taking ink delivered therethrough and adapted to open said valve.

1,944,598

PROCESS FOR THE MANUFACTURE OF BORIC ACID

Emil Franke, Grunau-Berlin, Germany, assignor to Chemische Fabrik Grunau Landshoff & Meyer Aktiengesellschaft, Grunau-Berlin, Germany

No Drawing. Application September 30, 1930, Serial No. 485,554, and in Germany October 22, 1929

4 Claims. (Cl. 23—149)

1. A process for the manufacture of boric acid from boric minerals containing magnesium, which comprises heating said minerals with hot sulphuric acid in the presence of sodium borate, so that a solution of boric acid, magnesium sulphate and sodium sulphate is produced, cooling said solution to separate a portion of the boric acid, concentrating the resulting liquor to the point where it is saturated with Na_2SO_4 to separate sodium-magnesium sulphate therefrom and cooling the hot liquor to crystallize further quantities of boric acid free from sulphate.

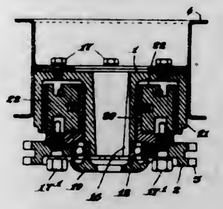
1,944,599

DRIVING OF AUXILIARY APPARATUS ON RAILWAY VEHICLES

John Gordon, Winnepeg, Manitoba, Canada, assignor to J. Stone & Company Limited, Deptford, England, a company of Great Britain

Application December 27, 1932, Serial No. 649,059, and in Great Britain January 1, 1932

2 Claims. (Cl. 74—31)



1. A combined belt-pulley and chain-wheel, comprising a hollow, cylindrical hub-body, a radial flange at one end of said hub-body, a belt-pulley mounted on said flange so as to surround said hub-body, a ring of chain-teeth mounted so as to be free to rotate on said hub-body at a distance axially from said belt-pulley, and a centrifugal clutch device disposed between said ring of teeth and said hub-body and adapted to operatively couple them at a predetermined speed of rotation of the ring of teeth.

1,944,600

PHOTOGRAPHIC PRINT DRIER

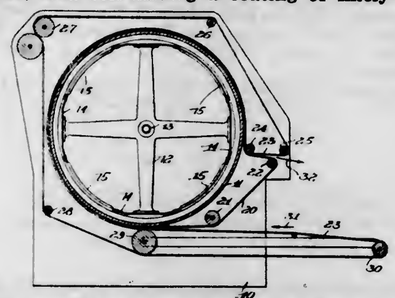
John S. Greene, Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I., a corporation of Rhode Island

Application January 28, 1931. Serial No. 511,818

7 Claims. (Cl. 34—4)

1. A photo print drier comprising a source of heat and a belt movable relative to said source

of heat with one side of said belt toward said source, said belt having a coating of finely di-



vided particles of metal including aluminum on the side thereof toward said source of heat.

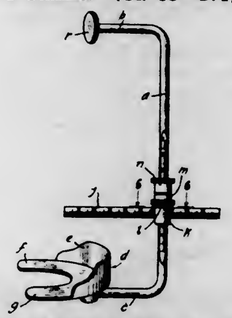
1,944,601

DENTAL DIMENSIONATOR

Fred E. Gulick, Portland, Oreg.

Application July 29, 1932. Serial No. 626,018

4 Claims. (Cl. 33—174)



4. In a dental dimensionator, an elongate calibrated shank provided with a longitudinal slot, the lower extremity of the shank being provided with a chin-piece, a slitted compressible sleeve slidable on said shank, a scale arranged perpendicular to said shank and longitudinally slidable in the slot thereof and in the registering slit of said sleeve, and means for securing the scale in the sleeve, and the latter on the shank in place as adjusted.

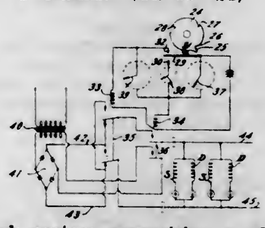
1,944,602

IMPULSE CLOCK

George F. Harter, Springfield, Mass., assignor to The Standard Electric Time Company, Springfield, Mass., a corporation of Connecticut

Original application August 28, 1930, Serial No. 478,470. Divided and this application October 21, 1930. Serial No. 490,200

4 Claims. (Cl. 58—24)



1. A clock system comprising a plurality of secondary clocks of the impulse type, control means for sending impulses of different polarity to said clocks, means in the secondary clocks responsive to the different impulses respectively, and valve means for selectively passing the different impulses to said means.

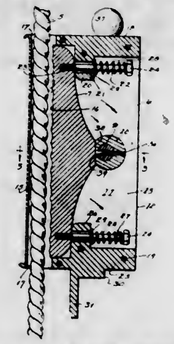
1,944,603

THEATRICAL ROPE LOCKING DEVICE

Russell P. Hecker, Cleveland Heights, Ohio

Application February 7, 1933. Serial No. 655,611

5 Claims. (Cl. 24—136)



1. A rope locking device comprising an elongated metal case having parallel lateral walls, having a curved and closed edge forming an inner curved surface for guiding a rope therethrough, and an open opposite edge, in combination with an elongated vertical brake shoe movable within the shell toward and from the rope, end blocks for the shell having inwardly extending lugs horizontally apertured and forming shoulders at the forward edge of the lugs to receive the ends of the shoe, yielding releasing means guided by said blocks and secured to said shoe and including pins movable through said apertures, and cam means operable intermediate the blocks for opposing the releasing action of said yielding means and advancing the shoe into gripping engagement with the rope.

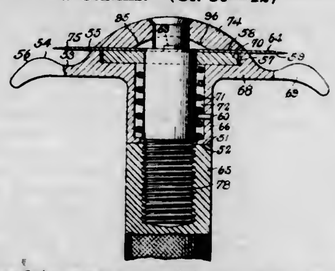
1,944,604

SAFETY RAZOR

John Holtzman, New York, N. Y., assignor, by mesne assignments, to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Original application March 10, 1930, Serial No. 434,790. Divided and this application May 31, 1930. Serial No. 458,149

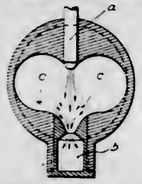
2 Claims. (Cl. 30—12)



2. A safety razor comprising co-operating blade clamping members, one of which is provided at its outer ends with narrow aligned spring-supported blade-locating ribs, and one with projecting cap-

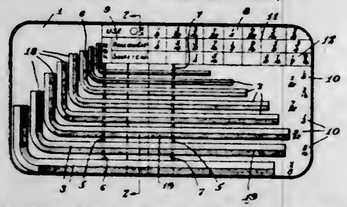
locating studs disposed inside said ribs, and an interposed blade having an internal aperture with narrow extended ends to fit said ribs and with an intermediate portion of greater width and having unbroken parallel edges spaced apart to fit said studs.

1,944,605
INJECTION ENGINE
Franz Lang, Munich, Germany, assignor to Lanova Aktiengesellschaft, Vaduz, Liechtenstein
Original application December 1, 1930, Serial No. 499,223, and in Germany October 30, 1930. Divided and this application June 19, 1933. Serial No. 676,428
2 Claims. (Cl. 123—32)



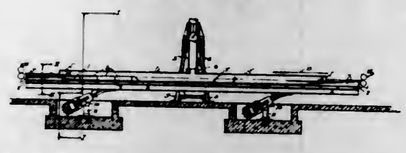
2. In an injection engine, a cylinder and a piston operating therein, a combustion chamber overlying and opening into the cylinder area, said chamber comprising in plan a constriction and lobes at opposite sides thereof, an air storage chamber opening into the combustion chamber at one side of the constriction thereof and through a passage disposed substantially normal to the cylinder axis, and fuel injecting means disposed to inject fuel into the combustion chamber at the opposite side of said constriction and toward the opening of the storage chamber and substantially normal to the cylinder axis.

1,944,606
TOOL BOX FOR HEXAGONAL SOCKET WRENCHES
Charles E. Little, Melrose, Mass.
Application October 17, 1930. Serial No. 489,345
1 Claim. (Cl. 206—16)



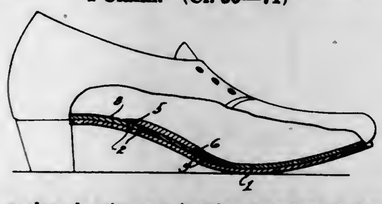
As a new article of manufacture, a combined socket wrench holder and tool box, comprising a metallic box-like structure, with a relatively deep bottom portion and a relatively shallow top, arranged for frictionally fitting together, the bottom portion having at least two metallic cross-brackets, with one of said cross brackets spaced from the adjacent end of the bottom portion to allow for and cooperate with the nesting of a plurality of heads of L-shaped socket wrenches to be contained in said box, said cross-brackets having recesses of variable depth and size to receive corresponding variably sized L-shaped socket wrenches, whereby to hold the shank portion of said wrenches above the top of the bottom portion to be in contact with the top, the heads of said socket wrenches effecting a nesting between one bracket and the adjacent end portion, with the outermost and largest socket wrench in contact with the side and one end of the bottom portion.

1,944,607
PICKLING DEVICE EMPLOYING VIBRATION
Edward N. Millan and Edwin B. Hudson, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application October 22, 1932. Serial No. 639,136
15 Claims. (Cl. 266—7)



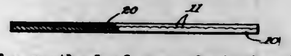
15. A process of pickling which comprises providing a storage quantity of pickling solution, continuously withdrawing a portion of said pickling solution to a pickling tank, carrying material to be pickled through said pickling tank by vibrational means advancing said tank in the respective directions of the length of the tank at unequal rates, and returning said portion of pickling solution to storage.

1,944,608
ADJUSTABLE FOOT SUPPORT
Leslie D. Noble, Detroit, Mich., assignor to Carrie E. Langell, St. Clair, Mich.
Application April 14, 1930. Serial No. 444,107
1 Claim. (Cl. 36—71)



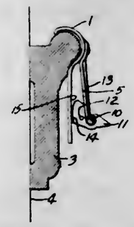
In a shoe having an insole, a series of fastening devices arranged therein approximately on a longitudinal center line thereof, comprising a plurality of pairs spaced a distance apart greater than the distance between members of the pair, an arch support having a single pair of complemental fastening devices positioned on a longitudinal center line thereof and spaced a distance apart equal to the spacing between similar members of each of the said pairs of devices of the insole permitting the support to be adjusted along the said longitudinal center line of the insole to vary the point of support of the longitudinal arch of the foot, said arch support having at least a rear portion thereof of approximately the same width as the insole and extending approximately to the side walls of the shoe, said arch support further being of greatest thickness intermediate its ends.

1,944,609
BEARING MANUFACTURE
John V. O. Palm, Cleveland Heights, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio
Application October 1, 1930. Serial No. 485,699
9 Claims. (Cl. 29—149.5)



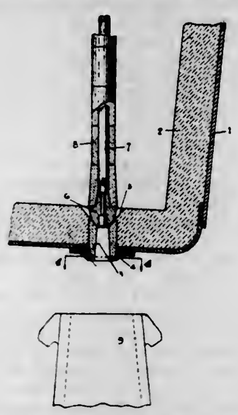
1. In the method of manufacturing bearings, the steps which consist in indenting a strip of bearing backing metal, casting under high pressure a layer of fluid bearing lining metal upon said indented surface and then forming the resulting composite flat strip into cylinders.

1,944,610
DROP CLOTH HOLDER
August Bernhard Person, San Francisco, Calif.
Application December 19, 1932
Serial No. 647,949
4 Claims. (Cl. 24—84)



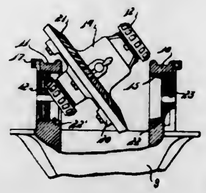
1. A drop cloth holder comprising a supporting member having at its upper end a hook shaped portion for engaging a moulding, and having at its lower end a cam so arranged that the face thereof will engage said member when in one position, but will be moved away from said supporting member in second position; a stirrup shaped strip attached at its upper end to the supporting member and having its lower end provided with journals a rivet mounted within said journals and pivotally supporting said cam, and a flat spring attached to said strip, said spring contacting the cam to normally retain the same in engaging relation with said supporting member.

1,944,611
NOZZLE FOR POURING MOLTEN METAL
Leo F. Reinartz and Charles R. Fen Dersmith, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application January 13, 1930. Serial No. 420,559
11 Claims. (Cl. 22—84)



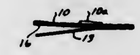
1. A nozzle for pouring molten metal, which has an entrance orifice having substantially equal axes, and a discharge orifice which is elongated in one direction, the area of the two orifices being substantially the same.

1,944,612
DIFFERENTIAL CARRIER
Frank Repeck, Detroit, Mich.
Application August 10, 1932. Serial No. 628,209
2 Claims. (Cl. 74—99)



1. In combination, a differential housing; a trunnion projecting outwardly from opposite sides of said housing; a bearing fixedly mounted on said trunnion; a ring gear carried by and embracing said housing and centered relatively to said bearings; a differential carrier body; a pair of spaced standards projecting outwardly from one face of said body, each of said standards having an opening formed therein, said standards being spaced apart sufficiently for providing journals for said bearings; the openings in said standards presenting an uninterrupted circular surface for engaging its bearing, said standards being spaced apart sufficiently for permitting the insertion of said differential in position thereon without requiring the removal of the ring gear or bearings.

1,944,613
CONSTRUCTION OF BAGS
William Wallace Rowe, Cincinnati, Ohio, assignor to The Paper Service Company, Lockland, Ohio, a corporation of Ohio
Application February 12, 1931. Serial No. 515,358
9 Claims. (Cl. 229—55)



1. A formed bag of a multiple fabric comprising two webs one of which is a web of creped paper joined together throughout their extent excepting at the top of the bag, where said webs are free, forming a plurality of closing flaps, one at least of the surfaces of the flap of the creped paper web being waxed to decrease friction between overlapping portions thereof in use.

8. A bag formed of a blank, comprising two webs joined together substantially throughout their extent excepting along at least one marginal portion and another web forming a reinforcement for one of said webs, covering the line of separation and extending upon both sides thereof.

1,944,614
UPHOLSTERY CONSTRUCTION
James P. Salmon, Philadelphia, Pa.
Application November 26, 1930
Serial No. 498,224
1 Claim. (Cl. 5—258)

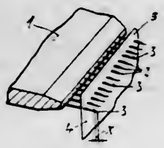
In an upholstery construction, the combination of a series of helical compression springs, a terminal disc affixed to each of the two opposed termi-

nal convolutions of each of said helical compression springs; one of each of said pair of terminal discs being affixed to a common base, and the other disc of each pair of discs being dished to receive padding; a plurality of circumferentially spaced retainer anchorages provided on each of said pair of terminal discs, said anchorages being disposed a distance from the center of said discs



greater than the external radius of the terminal convolution of the helical compression spring affixed thereto and arranged on opposite discs to form vertically opposed pairs, a collapsible retainer for each such pair operatively interposed between the opposed terminal discs and secured to similarly disposed anchorages thereof, and a flexible metallic connection intermediate adjacent terminal discs.

1,944,615
TRANSFERRING DEVICE
Paul Schönfeld, Chemnitz, Germany
Application July 8, 1932, Serial No. 621,449, and in Germany August 6, 1931
3 Claims. (Cl. 66—148)

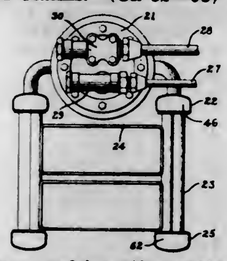


1. A device for transferring knitted goods from one knitting frame or machine to another, comprising a bar having a plurality of pins of which a number are provided with hooks on the ends of the pins which are filled up a substantial distance back from the point of the hook to prevent the goods from slipping off the pins.

1,944,616
PROCESS FOR MAKING CAST COMPACT CERAMIC PRODUCTS
Vladimir Škola, Aussig-on-the-Elbe, Czechoslovakia, assignor, by mesne assignments, to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application April 25, 1932, Serial No. 607,505, and in Czechoslovakia April 29, 1931
1 Claim. (Cl. 49—79)

In the casting of refractory articles from a melt of highly aluminous materials, the steps of maintaining the melt in a liquid state while the metallic impurities settle to the bottom and imperfectly melted particles rise to the top, and then casting the articles from the intermediate layer of the melt.

1,944,617
REFRIGERATING APPARATUS
Otto M. Summers, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware
Application January 30, 1928, Serial No. 250,367 Renewed February 1, 1933
14 Claims. (Cl. 62—95)



3. A unit for a refrigerating system comprising a wall, a tube with a flat side in thermal contact with said wall, said tube having an integral fin.

1,944,618
REFRIGERATOR CAR DOOR AND THE LIKE
Edward A. Sweeley, Alexandria, Va., and Norman T. Anderson, Washington, D. C.
Application July 29, 1932. Serial No. 626,128
5 Claims. (Cl. 20—35)

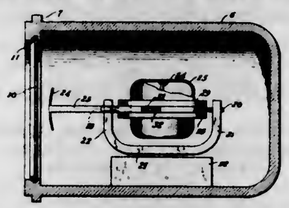


1. A door including upright end posts and upright end stiles having their adjacent faces rabbeted to form oppositely disposed off-set portions, spaced one from the other, a cushion pad applied to a face of one of the off-sets of the door posts and extending substantially from top to bottom of the door, and canvas extended across the face of said cushion pad and continued over the outwardly extending faces of the rabbeted portions of the posts toward the outer and inner faces of the door, said canvas having its opposite ends lapped where it lies between the rabbeted faces of the end posts and door stiles, at opposite sides of the door, and presenting outwardly exposed folds of the lapped canvas at opposite sides of the door, said canvas being secured to the door posts.

1,944,619
AIRCRAFT INDICATOR
Adolf Urfer, Richmond Hill, N. Y., assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y., a corporation of New York
Application April 16, 1931. Serial No. 530,713
1 Claim. (Cl. 33—204)

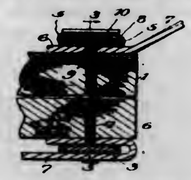
An aircraft indicator comprising a casing, a transparent cover glass for said casing and having a plurality of horizontal and vertical intersecting lines thereon, an image in the center of said cover glass simulating a fore and aft elevation of an aircraft in level flight, the vertical and transverse axes of said image being parallel to the vertical and horizontal intersecting lines respectively, and the longitudinal axis of said image being parallel to or coincident with the longitudinal axis of an aircraft when the instrument is carried thereby, means in said casing responsive to the bank and pitch of an aircraft, means

responsive to the turning of said craft and controlling said bank and pitch responsive means in accordance with a turn of the craft, and an indicating member simulating the wings of an aircraft and carried by said first-named means and controlled thereby so as to move vertically and horizontally parallel to the respective intersect-



ing lines on the cover glass and also to move angularly about an axis parallel to the longitudinal axis of the craft, the image and indicating member being in register with each other when the aircraft is in level flight, and when not in register the attitude of said member with respect to said intersecting lines represents the actual attitude of the aircraft in space.

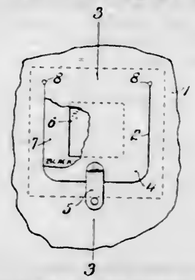
1,944,620
BINDER
Edward E. Usher, North Plainfield, N. J.
Application June 16, 1933. Serial No. 676,158
5 Claims. (Cl. 24—153)



1. A binder adapted to bind a pile of loose sheets having perforations adjacent their edges into a permanent assemblage, comprising in combination a backing strip, a plurality of doubled, thin, flexible metal ribbons adapted for attachment to the backing strip and having tongues of sufficient length to extend through the perforations of the pile of sheets with sufficient excess length to allow the extending extremities to be bent flat against the top of the pile and folded over, a plurality of retaining plates each having tongue means adapted to extend into the perforations between the halves of the doubled ribbon, the plate being adapted to lie over the flat-laid ends of the double ribbon, the extremities of the ribbon being foldable back on top of the plate, the plate having tab means adapted to be folded over the bent-back ends of the ribbon to securely retain the ends of the ribbon, thereby permanently binding the pile of sheets together.

1,944,621
BAG
Roy E. Van Atta, Johnson County, Kans.
Application November 3, 1932. Serial No. 641,002
3 Claims. (Cl. 206—7)

1. A bag, for containing articles liable to damage by light, the body of which has in one side an opening and a flap movable to and from a position closing said opening, and a sheet like member extending over said opening and attached to said body and having a transparent portion registering with and smaller than said opening and spaced a substantial distance from the edges thereof, said member having an opaque portion

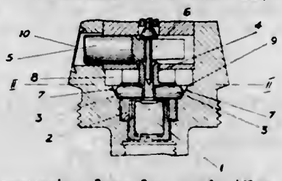


encircling said transparent portion and extending therefrom to the edges of said opening.

1,944,622
PROCESS FOR ABSORBING OLEFINES
Adrianus Johannes van Peski, Amsterdam, Netherlands, assignor, by mesne assignments, to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 17, 1929, Serial No. 371,711, and in Great Britain July 9, 1928
8 Claims. (Cl. 260—98)

1. A process of absorbing unsaturated aliphatic hydrocarbons containing at least one double bond in the molecule in sulphuric acid, which consists in carrying out the absorption in the presence of complex metallic-cyano compounds.

1,944,623
MECHANICAL TIME FUSE
André Varaud, Geneva, Switzerland
Application August 30, 1933, Serial No. 687,518, and in Switzerland August 1, 1932
10 Claims. (Cl. 102—39)

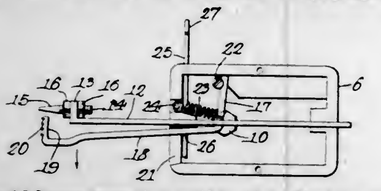


3. A percussion fuse for projectiles comprising a housing, a firing pin axially movably mounted in said housing, a carriage axially movable toward said firing pin, a detonator positioned in said carriage, centrifugally movable bolts slidably mounted in radially extending sockets in said carriage, the inner surface of said housing opposite said bolts being inclined outwardly in a direction toward the firing pin so that upon outward radial movement of said bolts against the inclined surfaces of said housing, due to centrifugal force, the carriage containing the detonator will be moved toward said firing pin.

1,944,624
FILLING DETECTOR
William C. Waters, Leonard L. Purvis, and Sterlin G. Taylor, Columbus, Ga.
Application June 24, 1931. Serial No. 546,584
1 Claim. (Cl. 139—284)

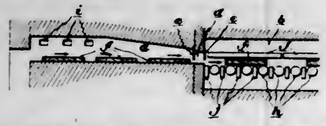
The combination with the lay, shuttle, filling carrier, and shuttle refilling control rod of a loom, the refilling control rod having an offset portion,

of a filling feeler housing having bearings in the ends thereof, a rod extending through the housing and movable within the bearings, a pin supported within the housing, said rod having an opening, a lever having a right angled end extended through the opening, and engaging the



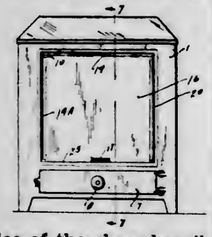
pin, said lever engaging within the offset portion of the refilling control rod, a spring for normally urging the right angled end of the lever into engagement with the pin, swinging the outer end of the lever laterally, operating the refilling control rod.

1,944,625
APPARATUS FOR TEMPERING GLASS SHEETS
Charles Ziegler, Paris, France, assignor, by mesne assignments, to The American Securit Company, a corporation of Delaware
Application August 12, 1930, Serial No. 474,683, and in France September 21, 1929
1 Claim. (Cl. 49—47)



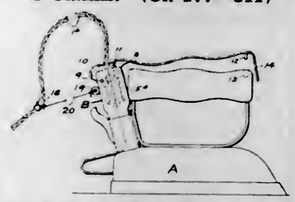
In an apparatus for tempering glass sheets, the combination with a heating chamber through which the sheet is fed, of a cooling chamber located at the exit end of the heating chamber, conveying rollers located within the cooling chamber, and chilling surfaces adjacent to the path of the glass on the rollers.

1,944,626
COMBINED HEATER AND FIREPLACE
Eugene A. Allbert, Portland, Oreg.
Application November 14, 1931
Serial No. 575,087
5 Claims. (Cl. 126—67)



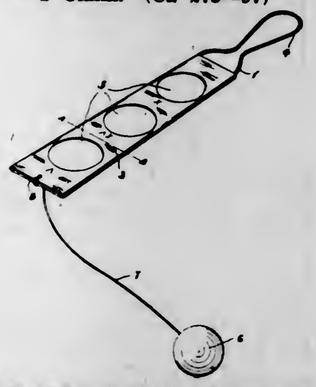
1. In a device of the class described, the combination of an outer casing, a fire box disposed within the casing and spaced apart therefrom, except at the front wall thereof, the fire box having a primary and secondary bottom spaced apart to permit an ash receiver being placed therebetween, an ash door hingedly secured to the casing and so placed as to permit the removal of the ash receiver therethrough, a pair of grates disposed upon the primary bottom of the fire box, a grate vertically disposed within the fire box, air louvers disposed through the walls of the casing to permit air circulation therethrough, a guideway formed at each side and within the top of the casing, a door having an offset hinge and normally supported within the guideways, and the inner face of the door and the outer face of the fire pot adjacent the openings being so positioned and formed as to maintain a relatively tight joint therebetween when the door is fully lowered.

1,944,627
AUDIBLE SAFETY SIGNAL FOR ELECTRICAL APPARATUS
Theodore Anderson, Everett, Wash.
Application October 28, 1929. Serial No. 403,087
3 Claims. (Cl. 177—311)



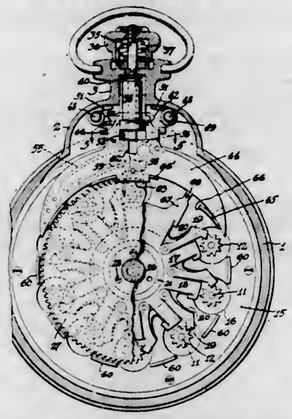
1. In an electric plug of the character described, adapted to be received within the socket of an electric flat-iron of common type, the combination of; a buzzer in the plug connected with the plug circuit wires, said buzzer having a vibrating armature, a trigger, said trigger being hinged near one of its ends within the plug, the other end of the trigger extending outwardly in a position to be adjacent to but normally spaced above the handle of the flat-iron when the plug is connected therewith, whereby said trigger is depressed upon the handle when both are grasped, means on the trigger to engage said buzzer armature when said trigger is depressed, to prevent oscillation of said armature, and means biasing the trigger to a non-checking position when released.

1,944,628
APPARATUS FOR PLAYING A GAME
John Barker, Leeds, England
Application April 3, 1933, Serial No. 664,261, and in Great Britain June 6, 1932
1 Claim. (Cl. 273—97)



In a bat and ball playing device a length of wire bent to form a handle and the complete outline of the bat body, a metal plate, a line of apertures in said plate, said plate being bent along two substantially parallel edges around substantially parallel longitudinal parts of said length of wire frame in such manner that the whole length of such plate is carried by said wire frame, a ligature connected at one end to the end of the frame remote from the handle end and a ball connected to the other end of said frame.

1,944,629
GOLF REGISTER
Morgan J. Beach, Detroit, Mich.
Application November 13, 1929, Serial No. 406,784
Renewed June 2, 1933
2 Claims. (Cl. 235—111)



1. A counting and scoring device comprising a case, a rotary dial frame mounted therein, an apertured sight plate carried by said frame, a circular series of dial shafts mounted in said frame, dials and pinions mounted on said shafts and behind said plate, a stem slidably mounted in said case, a carrier member mounted in said case beneath said stem, an operating pinion and driving pawl carried by said member, said operating pinion being adapted to mesh with a selected one of said first named pinions, said stem being adapted to operate said driving pawl.

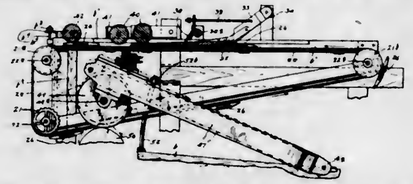
1,944,630
PROCESS FOR PURIFICATION OF CAUSTIC SODA SOLUTION
Harry Bender, Antioch, Calif., assignor, by mesne assignments, to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application September 26, 1929
Serial No. 395,463
1 Claim. (Cl. 23—50)

A new composition of matter comprising a chemical salt having the formula:

$NaOH \cdot NACl \cdot Na_2SO_4$.

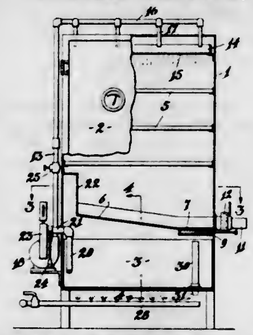
1,944,631
SHINGLE FACING MACHINE
George A. Bergstrom, Everett, Wash.
Application October 3, 1932. Serial No. 635,990
8 Claims. (Cl. 144—13)

1. A shingle facing machine comprising a shingle facing section, and a shingle feeding section timed to deliver shingles successively to the shingle facing section, the latter comprising, a main frame supporting a rigid work-table provided with a work opening, and means for successively placing and firmly holding shingles over said work opening, a vertically oscillated frame pivoted at one end on said main frame, a driven cutter head carried by the free end of of said oscillated frame, means, timed with said shingle placing means, operating said oscillated frame to place the cutter head in and out of



cutting position, and means cooperating with the main frame, the oscillated frame and the means for oscillating the latter to form a triangular rigid frame firmly holding the oscillated frame against chattering while the cutter head is in cutting position.

1,944,632
COOKER
Peter P. Boehmer, Syracuse, N. Y.
Application July 23, 1931. Serial No. 552,742
2 Claims. (Cl. 99—2)

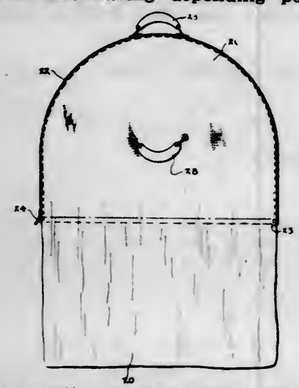


2. In a cooker, the combination of a cabinet having a door in one side thereof to permit articles to be cooked to be placed in and taken from the cabinet, a purality of tanks mounted in the lower portion of the cabinet, said tanks being adapted to contain different cooking fluids, a pan located in the cabinet above the tanks and having valve controlled drain passages into the tanks respectively, and also having an additional valve controlled drain pipe for discharging at a point outside of the cabinet, conduit means for discharging cooking fluid into the upper portion of the cabinet, and means by which the former means may be interchangeably connected to either of the tanks.

1,944,633
SUITCASE
Harry B. Bourland, Evansville, Ind.
Application March 2, 1933. Serial No. 659,409
2 Claims. (Cl. 190—41)

1. A suit case comprising a rigid skeleton frame formed of a back member of substantially semicircular form and a top member secured to the curved edge of said back member and projecting perpendicularly therefrom, angular brackets secured to the top and back for reinforcing the frame, a bag of flexible material and of greater height than the frame enclosing the latter and secured to the frame, the upper end of the bag conforming to the shape of the frame, said bag

having a closing flap, means for securing the flap in closed position, a substantially inverted U-shaped bracket secured to the top and back of the frame and having depending portions, a



hanger supporting rod extending through said portions and also through the back of the frame and the back of the bag, and supporting means for said suit case pivotally connected to said rod exteriorly of said frame and bag.

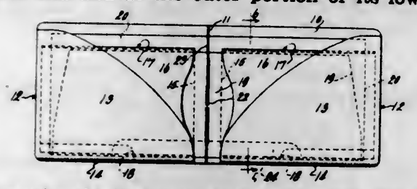
1,944,634
CABLE
Carl P. Brodhun, Wilkes-Barre, Pa.
Application May 5, 1927, Serial No. 189,117
Renewed September 8, 1932
3 Claims. (Cl. 173—267)



1. An electric cable comprising a conductor, a resilient insulation around the conductor, an impregnated fabric sheath around the resilient insulation, an impregnated fibrous wrapping around the fabric sheath, a plurality of strips of stiff bendable non-magnetic, non-conducting material helically wound around the impregnated fibrous wrapping, and an impregnated fibrous wrapping around the helically wound strips.

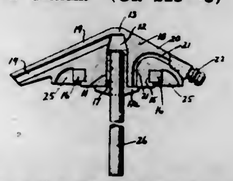
1,944,635
FLEXIBLE POCKET RECEPTACLE
Warner R. Buxton, Longmeadow, Mass.
Application March 29, 1933. Serial No. 663,289
10 Claims. (Cl. 150—38)

1. A bill fold, comprising, an outer wall having intermediate its ends a transverse line of fold, an inner wall superposed on the outer wall and including portions on opposite sides of said line of fold, each such portion connected near its inner lower end to the outer wall near the lower edge thereof and free from connection thereto at its outer end and at the outer portion of its lower



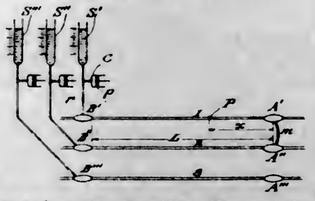
edge, whereby the outer ends of said portions are free to move up and down relatively to the outer wall, and flaps one for each such portion for concealing said portions in part and each connected to an outer end edge and the lower side edge of the outer wall.

1,944,636
MILK BOTTLE EVACUATING CAP
Rudolf C. Dusterberg, Astoria, N. Y.
Application June 15, 1932. Serial No. 617,367
1 Claim. (Cl. 215—3)



In a device of the class described, a cap adapted to be mounted on a bottle and having a central axial bore open at the bottom and closed at the top, a cylindrical bushing mounted in said bore, a tube having one end mounted in said bushing and projecting into the interior of the bottle, a flexible flange integral with said bushing lying in contact with the underside of said cap around said bore, said cap having an air inlet channel terminating on the under side of said cap adjacent said bore, said air inlet channel being normally covered by said flange, said cap having an outlet communicating with the upper end of said bore, and means for forcing air into said air inlet channel to urge said flange away from said air inlet channel to force the contents of the bottle through said tube into said bore and out of said cap outlet.

1,944,637
APPARATUS FOR LOCATING OIL LEAKS IN CABLES
Luigi Emanueli, Milan, Italy, assignor to Società Italiana Pirelli, Milan, Italy
Application July 22, 1931, Serial No. 552,535, and in Italy April 15, 1931
6 Claims. (Cl. 137—77)



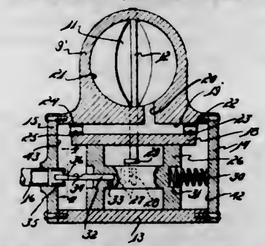
1. Apparatus for locating the point where a leakage of oil occurs through a hole in the lead sheath of a cable belonging to a system of three

single-phase, oil-filled cables laid parallel and near to each other, comprising two volumetric feeding reservoirs filled with oil and connected respectively to the leaky cable and to one of the good cables, the other ends of said cables being connected together, said reservoirs being provided with means for measuring the variations which occur in a given time in the quantity of oil contained in them, from the determination of which the point of leakage can be located in the equation

$$\frac{Q_1}{Q_2} = \frac{L+x}{L-x}$$

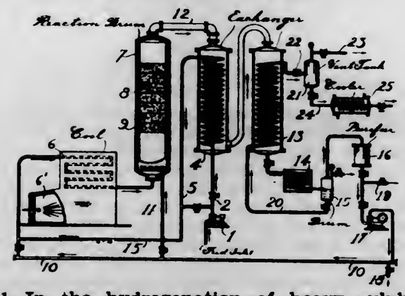
where Q_1 and Q_2 are variables and L is a constant.

1,944,638
AUTOMATIC ENGINE GOVERNOR
William A. Engstrom and Earl Ginn, Detroit, Mich.
Application September 12, 1931
Serial No. 562,454
5 Claims. (Cl. 137—153)



1. In a governor of the class described, a fuel inlet control valve; a housing; a movable member in said housing for operating said control valve, said member being spaced from one side of said housing to provide a chamber, said chamber being in communication with the fuel inlet conduit; a spring for normally resisting movement of said member in one direction, said member being movable in said direction in response to vacuum produced in said chamber; and a vacuum relief bleed mechanism for bleeding air into said chamber for maintaining a vacuum in said chamber in balance with the spring pressure for all positions of said movable member at a predetermined speed of engine operation.

1,944,639
TREATMENT OF HYDROCARBON MATERIALS CONTAINING SULPHUROUS IMPURITIES
Harold W. Fisher, Elizabeth, N. J., assignor to Standard-I. G. Company
Application November 20, 1929
Serial No. 408,477
8 Claims. (Cl. 196—62)



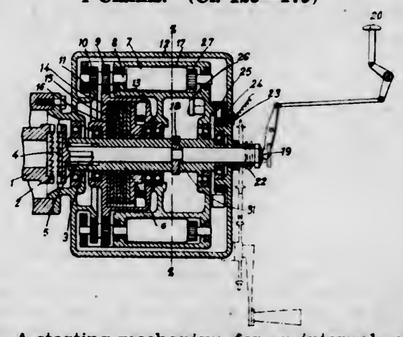
1. In the hydrogenation of heavy sulphur-containing hydrocarbon oils under high pressures and at elevated temperatures, the method of separating hydrogen sulphide and other volatile sulphurous compounds from the hydrogenated products which comprises withdrawing a mixture of hydrogenating gases and normally liquid hydrogenated oils from a hydrogenation zone, cooling said mixture under high pressure, separating the uncondensed gases and liquid products at said pressure, reheating the liquid products and reducing pressure thereon to vaporize volatile sulphurous compounds dissolved in said liquid without substantial vaporization of said liquid, and separating the vapor from the heated liquid.

1,944,640
CIGARETTE EXTINGUISHER
Frederick Alfred Ford, San Fernando, Calif.
Application July 27, 1931. Serial No. 553,420
3 Claims. (Cl. 206—41)



2. A device of the character described comprising a casing comprising a pair of telescoping sections, a pin passing transversely through the sections near one end thereof for swingably connecting the sections, cooperating cigarette holding means mounted in each section, cooperating lighted end extinguishing means carried by the end of the holding means near the swingably connected ends of the sections.

1,944,641
STARTER FOR INTERNAL COMBUSTION ENGINES
Léon Gérard, Sevres, France, assignor to Paul Viet, Billancourt, Seine, France
Application February 14, 1929, Serial No. 339,957, and in France February 16, 1928
4 Claims. (Cl. 123—179)

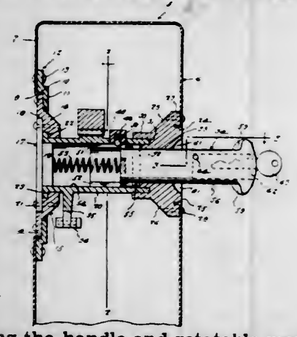


1. A starting mechanism for an internal combustion engine having a crankshaft to be rotated comprising a shaft slidably mounted for clutching engagement with the crank shaft of the engine and having an engine engaging member thereon, a pair of motors mounted on a spider and rotatable about the shaft under their own power to drive the same, said motors being disposed in parallel relation with respect to the shaft, and a driving connection between said spider and said engaging member.

1,944,642
DOOR HANDLE
Leslie Myers Holbrook, Hollywood, Calif.
Application March 26, 1932. Serial No. 601,368
7 Claims. (Cl. 70—91)

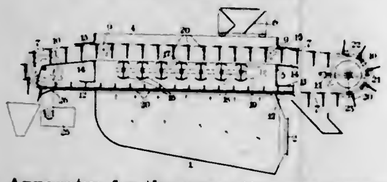
1. A lock comprising a bolt, a rotatable tubular bolt operating member operatively connected to

the bolt, a support carrying a pair of mountings whereby the rotatable member is supported, a portion of reduced interior diameter between the ends of the rotatable member, said portion being provided with longitudinal grooves, a door handle telescopable into said rotatable member and into the portion of reduced diameter, stop means on the handle slidably engageable in the grooves for



connecting the handle and rotatable member for rotation, said stop means being adapted to abut a portion of one of the mountings when the handle is fully extended, the stop means being free of the grooves and portion of reduced diameter when in the fully pushed in position so that the door handle is disconnected from the bolt operating member.

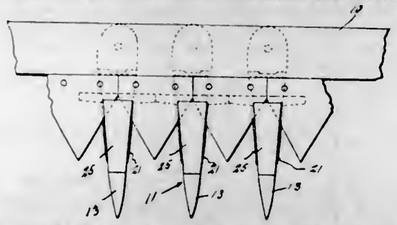
1,944,643
APPARATUS FOR SEPARATION OF DRY MATERIALS
Colin William Higham Holmes, Low Fell, England, assignor of one-half to The Birtley Iron Company Limited, Birtley, England
Application August 20, 1930, Serial No. 476,602, and in Great Britain August 28, 1929
2 Claims. (Cl. 209—474)



1. Apparatus for the separation of substantially dry materials comprising in combination a substantially horizontal trough, means for supplying air pressure beneath said trough, a conveyor band, part in upper part of said trough, and part in the lower part of the aforesaid trough, propelling members on both parts of said band and means for causing these propelling members to tilt so as to have a greater or less vertical height dependent on whether such members are functioning as the upper or lower parts of said conveyor.

1,944,644
CUTTER BAR GUARD
William M. Henderson, Clifton, Idaho
Application April 10, 1933. Serial No. 665,452
1 Claim. (Cl. 56—11)

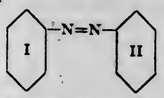
A guard finger of the class described having a body provided adjacent its pointed end with a socket, a seat at the upper end of the socket below the top of the pointed end of the guard finger, and a bolt opening extending through the body from the bottom of the socket to the underside of said body; a ledger plate having an apertured tongue fitting within said socket, and a top or cap section having an end engaging said seat, a right angularly disposed bolt integral with said end of said cap or top section and extending through the aperture in said tongue and the bolt



accommodating opening in said body, an enlargement integral with the bolt and the underside of said top or cap section fitting snugly within said socket and engaging said tongue of the ledger plate and a securing nut engaged with the free end of the bolt at the underside of the body of the guard finger.

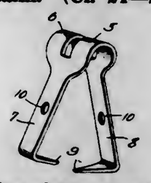
1,944,645
MANUFACTURE OF AZO-DYESTUFFS
Ernst Hug, Neu-Allschwil, near Basel, and Max Müller, Basel, Switzerland, assignors to Durand & Huguenin S. A., Basel, Switzerland
No Drawing. Application January 4, 1933, Serial No. 650,205, and in Germany January 14, 1932
5 Claims. (Cl. 260—96)

1. A process for the manufacture of azo-dyestuffs, which consists in subjecting to a nitrating operation a mono-azo-compound of the following general type



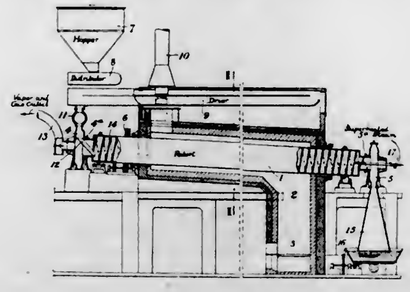
wherein I and II represent benzene nuclei of which one contains as a substituent a sulpho-group and the same or the other nucleus contains as substituent a dialkylated amino-group and may be further substituted by an alkyl, alkoxy or halogen.

1,944,646
CLASP
Jason H. McMurray, Buford, Ga.
Application January 17, 1933. Serial No. 652,206
1 Claim. (Cl. 24—265)



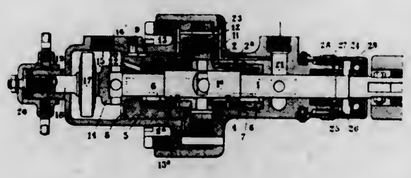
A buckle securing clasp comprising a length of metal bent intermediate its ends providing a pair of narrow arms, one of the arms being longer than the other arm, the free ends of the arms being tapered and extended inwardly providing spurs adapted to bite into a strap securing the clasp in position, the intermediate portion of the length of metal being wider than said arms and formed with a slot to accommodate the tongue of a buckle, and said arms having aligning openings, and a rivet extended through the aligning openings and strap.

1,944,647
APPARATUS FOR THE DISTILLATION OF BITUMINOUS SCHISTS
René Petit, Luxeuil les Bains, France, assignor to Societe des Schistes et Petroles de Franche Comte, Luxeuil les Bains, France
Application July 17, 1931, Serial No. 551,489, and in France May 19, 1931
2 Claims. (Cl. 202—131)



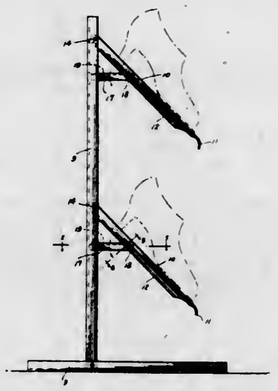
1. Apparatus for the distillation of pulverized bituminous schists, comprising a heating chamber, an elongated distillation retort mounted in this chamber and adapted to revolve about its axis which is slightly inclined, the ends of this retort extending outside the said chamber, bearings for the said ends of the retort, a hopper for the pulverized schist, a drying apparatus adapted to receive the schist issuing from the said hopper, a shist-containing chamber attached to the said bearing at the upper end of the inclined retort, means adapted to receive the schist issuing from the drying apparatus and to convey it into the schist chamber, a trough extending from this schist chamber into the inlet end of the retort, means adapted to rotate the retort, means in the retort for causing the schist to progress from one end of the latter to the other during its rotation, means for introducing steam into the lower end of the retort, and means for withdrawing the volatile distillation products.

1,944,648
PUMP
Louis Saussard, Paris, France, assignor to Societe Anonyme pour Tous Appareillages Mecaniques, Levallois Perret, France
Application April 5, 1932, Serial No. 603,387, and in France April 10, 1931
9 Claims. (Cl. 103—42)



1. A pump comprising a shaft carrying an eccentric and provided with inlet, distributing and delivery conduits, an inner frame mounted on the eccentric of this shaft, an outer frame slidably mounted on this inner frame, the said frames having inlet and exhaust conduits provided in their walls, two side plate members between which the frames slide, one at least of these plate members being adapted to slide parallel to the axis of the shaft, a manometric device interposed between a bearing member and the plate member, and adapted to press this cheek member against the corresponding side faces of the frames, to be subjected to the delivery pressure of the pump, and to become distorted and allow the plate member to move away from the frames when the said pressure reaches a definite maximum.

1,944,649
SHOE STAND
William H. Smith, Sr., Webster Groves, Mo.
Application March 23, 1933. Serial No. 662,353
1 Claim. (Cl. 211—37)

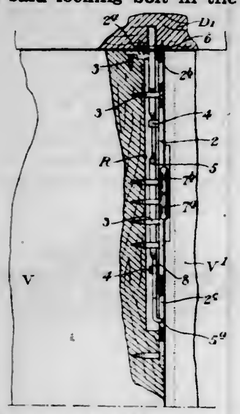


A shoe stand comprising a base embodying a pair of spaced angle irons, an upright comprising a pair of duplicate opposed vertically arranged angle irons secured at their lower ends to the intermediate portions of the base irons and rising therefrom in spaced parallelism, upper and lower shoe supporting shelves disposed in vertical superposed relationship, the shelves being pivotally connected at their inner ends to the angle irons and being of a width less than the distance between the legs of the angles to which the shelves are pivoted so that the same may be folded into nested relation with respect to said vertically arranged angle irons, each shelf embodying a plate having its inner pivoted end portion offset downwardly to define a shoulder to accommodate the shoe heel, and stay arms pivotally connected to the shelves, each stay arm having its inner end removably engageable with one of the flanges of the vertical angle iron, the inner end portion of each arm being provided with an outstanding laterally directed wing-like stabilizing abutment.

1,944,650
DOORBOLT FOR MULTILEAF DOORS
Maurice Vincent, Paris, France
Application August 22, 1932, Serial No. 629,975, and in France August 4, 1932
2 Claims. (Cl. 292—145)

1. The combination of a vertical locking bolt for door leaves, adapted to be fitted in a groove provided in the rabbet of the door leaf, a plate adapted to be secured on the same rabbet of said

door leaf, means on the rear face of this plate for guiding said locking bolt in the vertical direction and a pin-socket on one longitudinal side of said plate and in one piece with the latter.

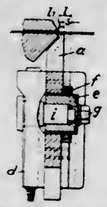


1,944,651

UNIVERSAL MACHINE FOR CANTING AND CIRCULAR-BENDING

August Wachter, Weingarten, Germany, assignor to the firm Maschinenfabrik Weingarten vorm. Hch. Schatz A. G., Weingarten, Germany

Application July 25, 1932, Serial No. 624,626, and in Germany August 6, 1931
2 Claims. (Cl. 153—16)



1. A bending device comprising opposite supporting arms having longitudinal grooves in their inner faces, a bending cheek mounted between the arms with its ends movable in the grooves, pivot blocks adjustable longitudinally of the supporting arms, and exteriorly screw-threaded collars rotatable on the pivot blocks and engaging the cheek to adjust said cheek transversely of the grooves in the supporting arms.

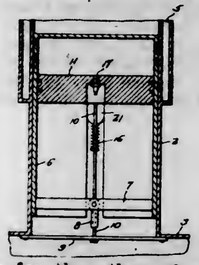
1,944,652

INTERNAL COMBUSTION ENGINE

Irvin Wright, Gillem Branch, Ky.

Application May 24, 1933. Serial No. 672,677
1 Claim. (Cl. 123—63)

In an internal combustion engine, a crank case, a crank shaft journalled therein, a power cylinder carried by the crank case, cross bars extending across the lower end of the power cylinder, rods extending vertically upwardly from said cross bars, a fixed stationary head on the upper ends of said rods within the power cylinder, a sleeve piston mounted to slide over the fixed head within the power cylinder, cross bars in the lower end of the sleeve piston, a connecting rod pivotally connected at one end with the last named cross bars, and at a relatively opposite end having an operating connection with the crank of the crank shaft, firing chambers at opposite sides of said sleeve piston, intake and exhaust ports in the top of the power cylinder for one of said chambers, intake and exhaust ports for the other of said chambers opening through said fixed head, and means for opening and closing all of said intake and exhaust ports.

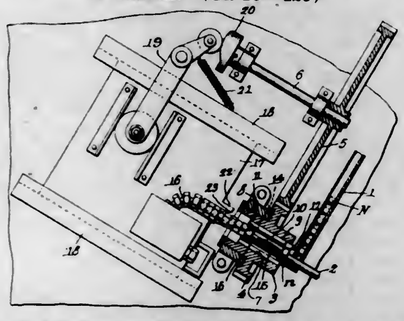


1,944,653

NUT PLACER FOR TAPPERS

William L. Clouse, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio

Application February 23, 1932. Serial No. 594,659
18 Claims. (Cl. 10—129)



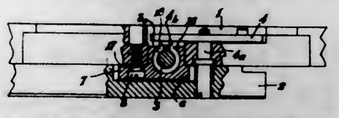
1. A tapping machine including a rotatable nut holding element, placers extending therefrom, means for feeding a blank thereagainst, a tap element, a second placer adjacent thereto, and means for moving one of said elements to engage a blank with the tap element and for retracting the said element and the engaged blank to force a finished nut against the second placer.

1,944,654

WINDING DEVICE FOR WATCHES

Henri Colomb, Tavannes, Switzerland

Application December 4, 1930, Serial No. 500,045, and in Switzerland December 18, 1929
1 Claim. (Cl. 58—67)



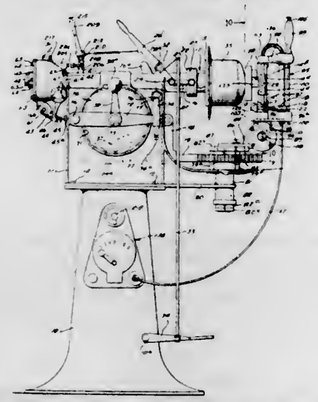
In a watch movement having a movement plate and a stem winding mechanism including a slidable winding stem cooperating with a set lever, said movement plate being provided with a recess, a bushing for the winding stem partly inserted in said recess, said bushing being provided with a slot through which penetrates the set lever, a lateral wing integral with the bushing and provided with a face extending parallel to the movement plate to contact with one face of the movement plate and thereby to ensure accurate angular positioning of said slot in the bushing relative to the recess in the movement plate, and a screw penetrating said wing and the movement plate.

1,944,655

HAT IRONING MACHINE OR THE LIKE

James F. Doran, deceased, late of Danbury, Conn., by John C. Doran, executor, Danbury, Conn.

Application January 9, 1932. Serial No. 585,776
36 Claims. (Cl. 223—28)



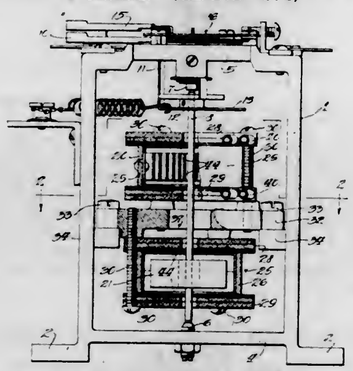
1. In apparatus of the character described, in combination, means adapted to support and rotate a hat, a tool for operating on the hat, a movable support, said tool being spring-supported by said support and urged by the spring against said hat support, means for moving said support to cause the tool to traverse the hat, a handle for manually moving said tool, a latch adapted to hold said tool away from said hat support in opposition to said spring, and means associated with said handle for controlling said latch.

1,944,656

METER

William C. Downing, Jr., Springfield, Ill., assignor to Lincoln Meter Company, Inc., Springfield, Ill., a corporation of Illinois

Application August 18, 1930. Serial No. 475,888
3 Claims. (Cl. 171—271)



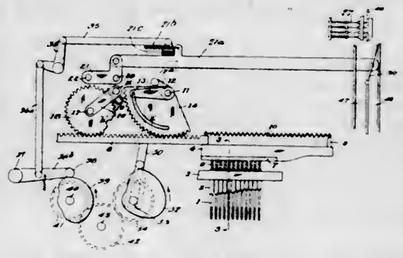
1. A device of the class described, comprising a thermo-responsive element, a casing for said element, heating means in said casing, and means comprising a thin metallic shell formed of heat conducting material and arranged to entirely enclose the interior of said casing for distributing the heat within the casing, said casing being formed of heat insulating material and surrounding said shell.

1,944,657

CONTROL DEVICE FOR ACCOUNTING MACHINES

Howard C. Einstein, Detroit, Mich., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application October 23, 1929. Serial No. 401,731
1 Claim. (Cl. 235—58)



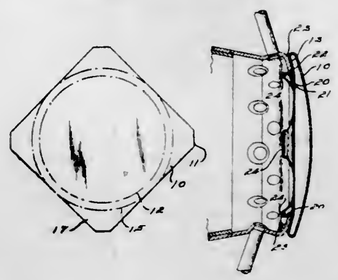
In a device of the class described, a plurality of rows of perforation sensing elements, a plurality of slidable racks controlled by said elements, a plurality of gears meshing with said racks to be turned thereby, said gears having control notches therein, a rod adapted to reach into the notches when they are all aligned, means for moving said rod to test the setting of said gears, and a machine control member adapted to be controlled in accordance with the position of said rod.

1,944,658

METHOD OF MAKING HUB CAPS

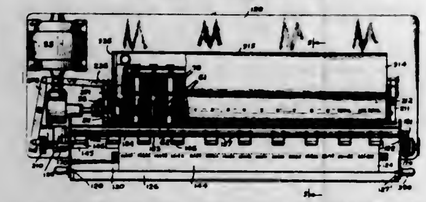
Edward W. Griffith, Detroit, Mich.

Application April 24, 1931. Serial No. 532,561
3 Claims. (Cl. 29—159.3)



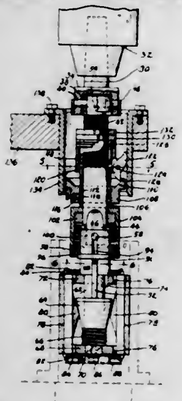
1. The method of manufacturing a wheel hub cap which comprises forming a substantially square piece of sheet metal, reversely bending the entire edge of the sheet around a circular area to provide an annular flange directed toward the axis of the cap, and bending the corners thus projected inwardly at an angle to the flange to provide substantially axial lips at four circumferentially spaced points for securing the cap to a wheel hub.

1,944,659
PRINTING COUNTER
Eugene A. Ford, Searsdale, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 15, 1929. Serial No. 340,191
7 Claims. (Cl. 235—92)



1. A machine for operating on record cards bearing differential index point positions, comprising a device for analyzing the record cards while the cards are in motion and one card at a time, counters corresponding to the index point positions controlled by said device, a total counter for counting the cards and card-controlled means for operating the total counter before the leading index point position of the controlling card reaches the analyzing device.

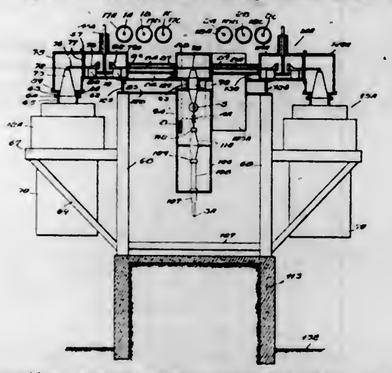
1,944,660
CYLINDER HONING TOOL OR THE LIKE
Frank J. Jeschke, Detroit, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application April 18, 1929. Serial No. 356,266
33 Claims. (Cl. 51—184.3)



1. A grinding tool comprising, in combination, a rotatable spindle supported for advance and withdrawal, a grinding head carried thereby provided with grinding members and means for varying the grinding diameter established by said members, a sleeve providing a master surface through which the spindle is advanced and withdrawn during the operation of the tool, means including cam fingers and intermediate parts carried by the spindle to cooperate with the sleeve upon the advance or withdrawal of the spindle therethrough to automatically vary the diameter established by said grinding members.

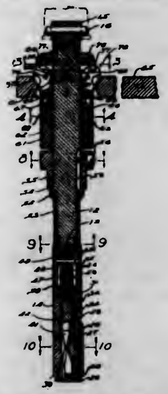
1,944,661
OIL FILLED BUS AND SWITCH GEAR
Herman C. Kalwitz, Park Ridge, Ill.
Application September 4, 1930. Serial No. 479,624
28 Claims. (Cl. 175—298)

1. In a bus and switch station, an elevated frame having supporting means, a sheathed bus disposed longitudinally of and supported upon said frame, a circuit breaker disposed at one side of the frame outside of the supporting means, and carried by said supporting means, a line extending substantially vertically from under said



supporting means, a transverse sheathed conductor supported upon said frame under the bus, said transverse conductor connecting said line and one pole of said circuit breaker, and a second transverse sheathed conductor connecting the other pole of the circuit breaker and the bus.

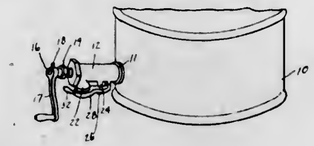
1,944,662
HONING TOOL
Fred M. Kern, Detroit, Mich., assignor to Micromatic Hone Corporation, a corporation of Michigan
Application March 9, 1931. Serial No. 521,090
15 Claims. (Cl. 51—184.3)



1. A honing tool as a separate device from a machine which effects its reciprocation and rotation including, in combination, means for supporting expansible abrading elements, a projecting trip lever mounted on the spindle for retaining the elements in expanded position when moved to locked position and means in the vicinity of said supporting means for engaging the trip lever at a predetermined position of the tool to actuate said lever to cause said elements to collapse.

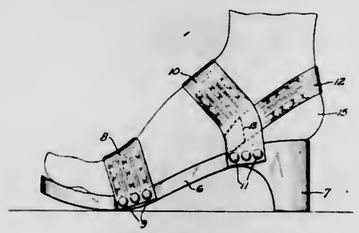
1,944,663
FORCED FEED FAUCET FOR DISPENSING PLASTICS
J. Paul Le May, Casey, Ill.
Application August 25, 1932. Serial No. 630,410
2 Claims. (Cl. 221—146)

1. A faucet for dispensing plastics and the like from a container, including a body member having a central chamber therein, said body member being insertable in an opening in said container and said chamber communicating with the interior of said container, said body member also having a discharge opening adjacent the outer end thereof, a screw mounted within said chamber and extending into said container, means for rotating said screw to draw the contents of said container into said chamber and to discharge the same through said discharge opening, a headed stud mounted on said body member, a closure construction mounted on said stud and having both a rotating and a longitudinal move-



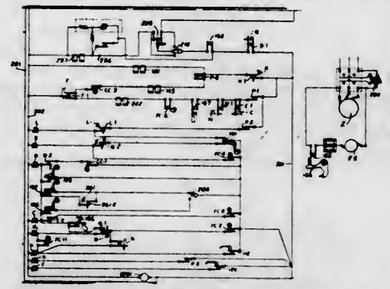
ment with respect to the axis of said stud, said closure being movable transversely across said discharge opening in said rotating movement, and said longitudinal movement being limited by the head of said stud, a wedge member carried on said closure construction, and a mating wedge member carried on said body member and engageable with the first-mentioned wedge member in the rotation of said closure construction to move the same longitudinally along said stud to engage the head thereof as a fulcrum and thereafter to press said closure against said discharge opening for closing the same.

1,944,664
SANDAL
Warren G. Maxcy, Oshkosh, Wis.
Application February 26, 1932. Serial No. 595,309
3 Claims. (Cl. 36—11.5)



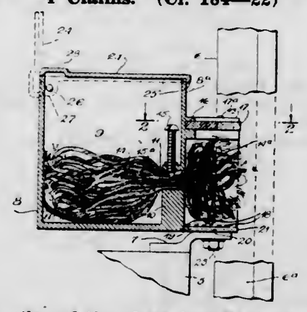
1. In a sandal having a sole, a yieldable front securing strap non-detachably secured to the sole and arched thereover, and yieldable rear securing means non-detachably secured to the rear portion of the sole and arched thereover, said rear securing means including an instep strap secured at its ends to the sole and a heel strap having its end portions obliquely under lapping and secured to the end portions of the instep strap immediately above the secured ends of said instep strap, only the forward underlapping portions of the heel strap being secured with respect to the instep strap, the heel strap diverging rearwardly and upwardly from the instep strap at an acute angle to provide therebetween an ankle receiving opening.

1,944,665
MULTIPLYING MACHINE WITH IMPROVED CHECKING FEATURES
Derk J. Oldenboom, Woodbridge, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 16, 1933. Serial No. 660,984
10 Claims. (Cl. 235—92)



1. A record controlled multiplying machine with multiplying means controlled by multiplier and multiplicand entries from a record and including a product setup means for the final product, an entry receiving device receiving from each record the product previously recorded upon the record, means for comparing the product entry setup upon said entry means with the final product derived as a result of the multiplication, resetting means for said entry receiving means and means controlled by said comparing means for controlling the operation of said resetting means.

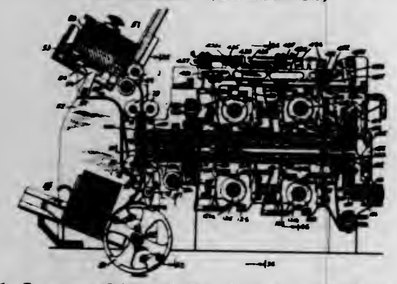
1,944,666
RAIL OILER
Gustav M. Osterberg, Harrington Park, N. J.
Application November 6, 1930. Serial No. 493,733
4 Claims. (Cl. 184—22)



1. An oiler of the class described comprising a casing, a relatively long channel housing projecting outwardly from one side wall of the casing, said side wall of the casing having a discharge port opening into the central portion of the channel of said housing and into the chamber of the casing adjacent and above the bottom thereof, and means involving a multiple strand body arranged in said passage, the chamber of said casing and in said channel for transmitting a lubricant from the chamber of said casing to that part of said strand body disposed within said channel, said casing having an enlargement in the chamber centrally and adjacent the bottom of one side wall thereof and through which said discharge port passes and a screw adjustably supported in said enlargement and accessible from within the chamber of said casing, the end of said

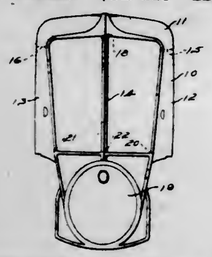
screw being adapted to enter said port to cooperate with the multiple strand body therein to control the discharge of lubricant therethrough, the inner faces of the walls of said housing adjacent the upper end thereof being grooved, and a U-shaped body of fibrous material adapted to be arranged in said grooves and to engage a guide rail disposed within the channel of said housing forming a wiper to remove grit and dirt from the rail.

1,944,667
TABULATING MACHINE
John Royden Peirce, New York, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 24, 1930. Serial No. 455,279
15 Claims. (Cl. 235—92)



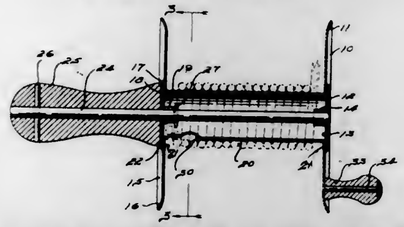
1. In a machine of the class described, recording mechanism, a group number change finder comprising a settable comb, and a cooperating contact; card analyzing mechanism, means controlled thereby for causing relative movement between said comb and said contact for each card and means controlled by said contact, operative upon a change in group number for controlling the operation of said recording mechanism.

1,944,668
MOTOR VEHICLE
Emmett G. Purdy, Detroit, Mich., assignor to Detroit Body Die Company, a corporation of Michigan
Application April 7, 1931. Serial No. 528,335
3 Claims. (Cl. 113—116)
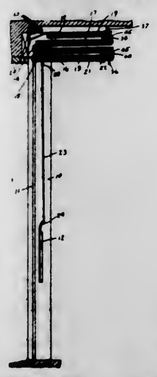


1. The method of constructing a radiator shell which comprises; cutting a sheet metal plate to a predetermined contour; bending and slightly drawing the metal of said plate to form a piece including halves, each of the general configuration of an upper section of a radiator shell; severing said piece to separate said halves; cutting a second sheet metal plate to a predetermined contour; bending and slightly drawing the metal of said second plate to form a piece including halves, each of the general configuration of a side section of a radiator shell; severing said second named piece to separate the halves thereof; and then welding said second named halves to one of said first named halves to provide an integral construction.

1,944,669
REEL
Emmett G. Purdy, Detroit, Mich., assignor to Detroit Body Die Company, a corporation of Michigan
Application July 22, 1931. Serial No. 552,317
2 Claims. (Cl. 242—100)



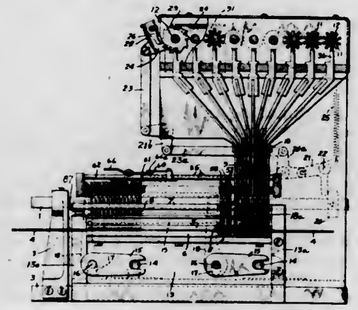
1. A reel comprising a pair of metal plates each plate having its outer edge flared outwardly with respect to the plane of that plate, said plates having central portions depressed towards remote sides of the plates to provide recesses within the planes of the plates, a barrel extending between the plates and having end portions disposed in the recesses and secured to said central portions, a handle concentrically mounted on one end plate at the outer side thereof, and a second handle eccentrically mounted on the outer side of the other end plate.

1,944,670
FOLDING DOOR CONSTRUCTION
Will D. Redrup, Huntington, Ind., assignor to The Majestic Company, Huntington, Ind., a corporation
Application March 13, 1931. Serial No. 522,394
2 Claims. (Cl. 20—20)



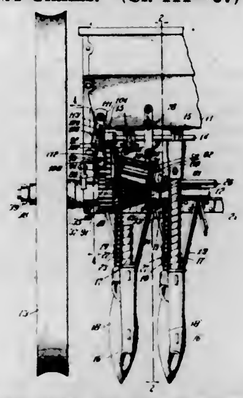
1. In combination with a ceiling and a door opening, a folding sectional overhead door having at least three door sections hingedly connected together in edge-to-edge relation, an elongated combination bumper and hand grip tubular shell metal truss carried by the lowermost section for hand grip and foot tread purposes, another similar truss carried by the uppermost door section and arranged for ceiling contact for bumper purposes, each of said trusses extending from immediately adjacent one edge of the door to the opposite edge of the door and comprising an intermediate substantially tubular portion having a longitudinal parting, a wing extending outwardly and divergingly from each edge of the parting, and a door anchoring flange on the opposite edge of each wing.

1,944,671
RECORD PERFORATING DEVICE
John T. Schaaff, Washington, D. C., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 6, 1931. Serial No. 548,904
12 Claims. (Cl. 164—111)



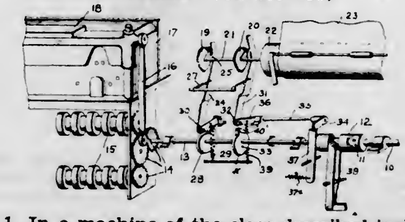
1. In a record card punching machine, means for effecting punching representing numerals in record cards, means for successively changing locations of the punching to change the numbers represented thereby, and means for periodically restoring said changing means from an intermediate to predetermined position to effect a repetition of the operation thereof.

1,944,672
GRAIN DRILL
John Schaeffer, Horicon, Wis., assignor to The Van Brunt Manufacturing Company, Horicon, Wis., a corporation of Wisconsin
Application August 10, 1927. Serial No. 212,015
24 Claims. (Cl. 111—67)



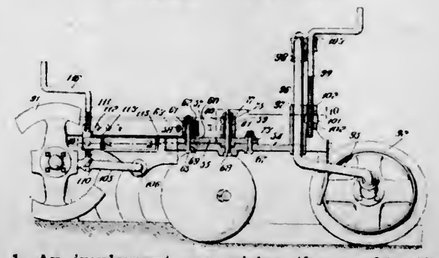
1. In a grain drill, the combination of a grain feeding shaft, a driving shaft, and selective speed transmission mechanism operatively connecting said shafts and comprising a compound cone gear, a shiftable speed selecting gear adapted to be placed in operative mesh with said cone gear at different points along its length, the axis of the cone gear being at an angle to the axis of said speed selecting gear so that said axes are in the same relative position in all adjusted positions of the speed selecting gear, means for driving said speed selecting gear from said driving shaft, and means for driving said grain feeding shaft from said cone gear including a pair of interconnected gear members at one end of the cone gear.

1,944,673
PAPER FEEDING MECHANISM
Diedrich Friedrich Schumacher, Berlin-Britz, Germany, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 13, 1928, Serial No. 285,007, and in Germany January 23, 1928
18 Claims. (Cl. 235—58)



1. In a machine of the class described including means for normally effecting line spacing operations of a record sheet during successive item printing operations, a normally latched supplemental paper feeding device, and means whereby the unlatching of the supplemental paper feeding device effects an additional line spacing operation.

1,944,674
PLOW
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 11, 1929
Serial No. 406,179
34 Claims. (Cl. 97—53)

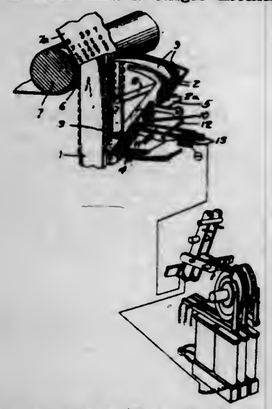


1. An implement comprising the combination of a frame, standards carried by said frame, bearings carried by said standards, a plurality of disc sections journaled in said bearings, and optionally operable means to connect said sections together for simultaneous operation or to allow the sections to rotate independently.

1,944,675
PRINTING MECHANISM
Gustav Tauschek, Vienna, Austria, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 30, 1929, Serial No. 382,215, and in Austria August 23, 1928
5 Claims. (Cl. 235—58)

1. In a tabulating or like machine, electrical tens transfer devices between adjacent accumu-

lator elements, line printing members between denominational printing elements, electrical contacts for controlling the related order of said transfer devices and a single means selectively



shifted to operate said contacts to disable the related transfer device and to cause the selection of the related line printing member for a printing operation.

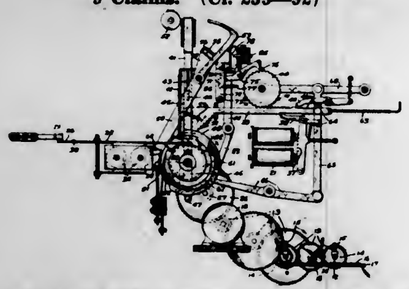
1,944,676

CARD CONTROLLED CALCULATING MACHINE

Gustav Tauschek, Mountain Lakes, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application August 15, 1931, Serial No. 557,212, and in Austria May 27, 1927

9 Claims. (Cl. 235—92)



4. In a machine of the class described, the combination with record controlled means for setting up a plurality of manifesting devices for representing the meaning of perforations in the records analyzed, of a main clutch interposed between said means and a prime mover, a sensing element adapted to have by the coaction with a controlling record a certain position and prior to the analysis of the record perforations, and means whereby said sensing element when in said certain position effects the driving establishment of the elements of the clutch.

1,944,677

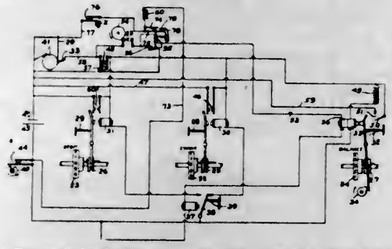
DEBIT AND CREDIT TABULATOR

Hermann Adalbert Weinlich, Berlin, Germany, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application June 5, 1931. Serial No. 542,285

20 Claims. (Cl. 235—92)

1. In a record controlled tabulating machine, an accumulating device, means for analyzing records bearing designations, means for initiating operation of said device at a predetermined time, and means controlled by the analyzing means upon encountering a designation for interrupting operation of said device at a differential time to enter in the accumulating device the complement of the number represented by the analyzed record.



4. In a tabulating machine, means for analyzing records bearing item designations, an accumulating device, means directly controlled by the analyzing means for normally entering the complement of the number represented by the item designation of one type of record analyzed, and control means controlled by the analyzing mechanism and effective upon the analyzing of another type of record for causing said entering means to enter a direct number in accordance with the item designation of the record analyzed.

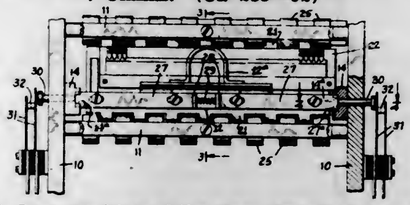
1,944,678

RECORD ANALYZER

Robert Ziguelde, Paris, France, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application June 25, 1931. Serial No. 546,749

7 Claims. (Cl. 235—92)



2. In a machine of the class described, a main frame, a record feeding device mounted in said frame, driving means for said feeding device, a record analyzer having a normal cooperative relation with the record feeding device and removably mounted in said frame, a latch forming part of the analyzer for holding the latter in its normal cooperative relation with the record feeding device, and means controlled by said latch for disabling the driving means when the latch is released to permit removal of the analyzer from cooperative relation with the feeding device.

1,944,679

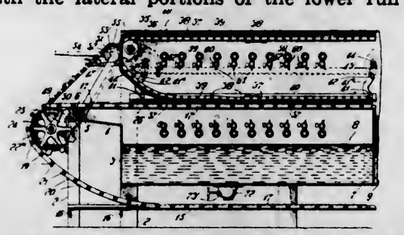
WASHING MACHINE

George P. Anstiss, Oak Park, Ill., assignor to G. S. Blakeslee & Co., Cicero, Ill., a corporation of Illinois

Application May 26, 1928. Serial No. 280,673

4 Claims. (Cl. 141—1)

1. In a machine of the character described, a casing, upper and lower endless conveyors operating in the casing, the upper conveyor being readily flexible and having its lower run sufficiently slack to rest upon articles supported upon the upper run of the lower conveyor, when said lower run of the upper conveyor is lowered into operative position, guide members extending beneath the lateral portions of the lower run of



the upper conveyor, means for raising and lowering said guide members for moving the lower run of said upper conveyor out of and into operative position, and means for projecting liquid onto said articles.

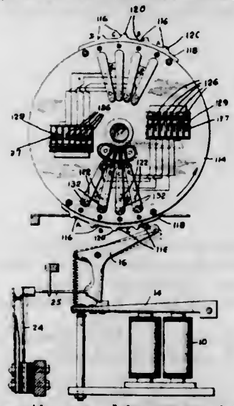
1,944,680

SORTING MACHINE FOR RECORD CARDS

Charles Campbell, London, England, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Original application December 6, 1927, Serial No. 238,011, and in Great Britain December 31, 1926. Divided and this application December 19, 1928. Serial No. 327,038

28 Claims. (Cl. 209—110)



1. A card sorting machine comprising card analyzing mechanism, means forming a plurality of card distributing passages and spaced from the analyzing mechanism to permit the data bearing portion of the card to clear the analyzing mechanism before the card reaches the passage forming means, means controlled by the analyzing mechanism during card analysis for determining the selection of a distributing passage and means controlled thereby and including the analyzed card as a passage producing element for effecting the operation of the passage forming means to select a passage when the card reaches the same.

1,944,681

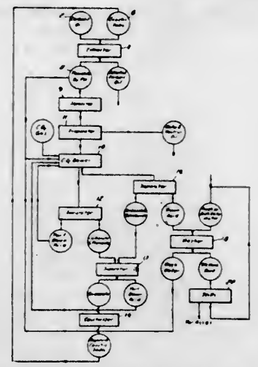
PRODUCTION OF TAR ACIDS

William C. Cooper, Jr., Venice, Calif., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey

Application January 7, 1931. Serial No. 507,291

11 Claims. (Cl. 260—154)

1. The process of obtaining tar acids from coal tar distillates, which comprises the following steps: (1) treating the distillates with alkali to convert the tar acids to alkali phenolates; (2) separating the alkali phenolates from the oil; (3) acidifying the phenolates with carbon dioxide to liberate the tar acids; (4) washing



the tar acids with water to remove phenolates, carbonates, and other water-soluble impurities retained by the tar acids; (5) separating the wash water from the washed tar acids; and (6) introducing the wash water in a step following step (1) of the process.

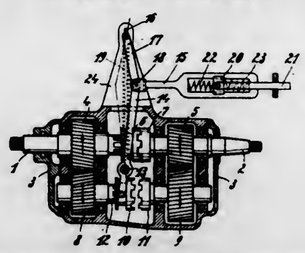
1,944,682

TRANSMISSION GEARING

Wilhelm E. Dörr, Uberlingen, Germany, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Germany

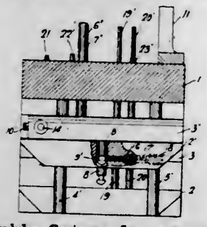
Application October 24, 1930, Serial No. 490,889, and in Germany November 6, 1929

2 Claims. (Cl. 74—59)



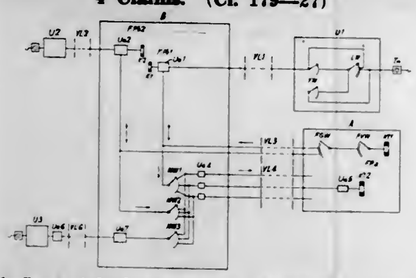
1. In a transmission gearing, a pair of coaxial gears of different size, a second pair of coaxial gears meshing with the first pair of gears, a pair of relatively movable claw clutch members between the two gears of each such pair having the front faces of their teeth sloped in such a direction that if either of said clutches is disconnected while the gears are rotating in their normal direction, and the other clutch members are immediately tensioned towards engagement, such second pair of clutch members will over-run without engagement until the relative speed of the respective gears has been changed to bring the halves of such second pair of clutch members to substantially equal speed, means nterconnecting said clutches such that as one of said pairs is caused to engage, the other pair is caused to disengage, and impositive means operatively connected w th said interconnecting means whereby either of said pairs of clutches may be tensioned yieldingly towards engagement after the other pair has been caused to disengage.

1,944,683
ASSEMBLING MACHINE
Frederick W. Doyle, Chicago, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 26, 1931
Serial No. 583,220
13 Claims. (Cl. 29—84)



1. An assembly fixture for assembling contact springs on L-shaped relay heel pieces, comprising a base piece having a recess therein for receiving the leg of an L-shaped heel piece when the same is positioned on the fixture, a positioning pin on said base piece which engages a hole in the heel piece, and two guide pins on said base piece which fit into depressions along the edge of the heel piece, one on each side thereof.

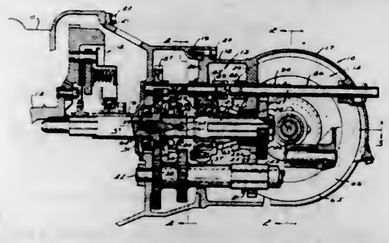
1,944,684
TELEPHONE SYSTEM
Erich Ehricke, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany
Application May 25, 1932, Serial No. 613,355, and in Germany June 19, 1931
4 Claims. (Cl. 179—27)



1. In a telephone system, a manual switchboard, lines extending to said switchboard, another line, means effective when said manual switchboard is attended for setting up connections thereat originated on said lines, and automatic switching apparatus effective when said manual switchboard is unattended for automatically extending a connection from any one of said lines to said other line responsive to a call on any one of said lines, said apparatus including a progressively movable step by step switch.

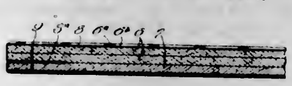
1,944,685
POWER TRANSMITTING UNIT FOR VEHICLES
Carl W. Floss, Detroit, Mich.
Application May 19, 1930. Serial No. 453,745
10 Claims. (Cl. 74—57)

1. A power transmitting unit for vehicles comprising a variable speed transmission including a drive shaft and a pair of axially spaced bearings for supporting said drive shaft, differential drive mechanism including a ring gear having its axis of rotation spaced beyond the end of said drive shaft and extending transversely thereof, a gear mounted upon the drive shaft intermediate the



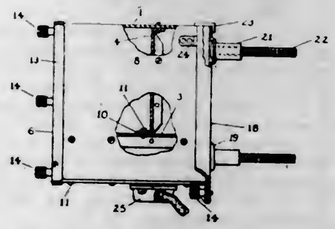
bearings aforesaid and meshing with said ring gear for driving the latter, and a change speed gear for said transmission opposite the face of the ring gear and mounted upon said drive shaft beyond the bearings therefor.

1,944,686
TABLE MAT
Benjamin Gershon, Chicago, Ill.
Application April 27, 1933. Serial No. 668,256
4 Claims. (Cl. 45—68.4)



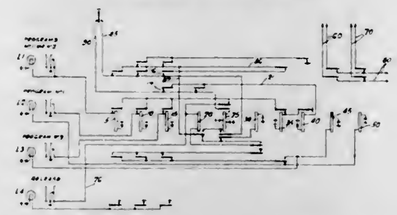
1. A table mat comprising a heat insulating sheet of padding having relatively smooth faces, a thin layer of protective covering material secured to the padding, the exposed portions of said material having substantially its entire surface formed with a plurality of recesses having a vacuum action when the mat is laid on a smooth surface.

1,944,687
COMBINED CASING AND SUPPORT
Ken L. Henderson, Springfield, Mass., assignor to United American Bosch Corporation, Springfield, Mass., a corporation of New York
Application May 27, 1933. Serial No. 673,173
2 Claims. (Cl. 312—7)



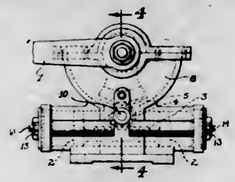
1. A casing for a radio receiver comprising a top and sides, a bottom attached to the sides, a front closure for the casing, a rear closure for the casing having side flanges overlapping the sides of the casing, said rear closure having openings for fastening means to attach it to a support and enable it to serve as a mounting panel for the casing, the bottom having a flange to be secured to the rear closure and the top having a projecting angle strip to engage over the upper edge of the rear closure to suspend the casing thereon.

1,944,688
ELECTRICAL CONTROL SYSTEM
Harry E. Hershey, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 21, 1931
Serial No. 582,340
11 Claims. (Cl. 179—1)



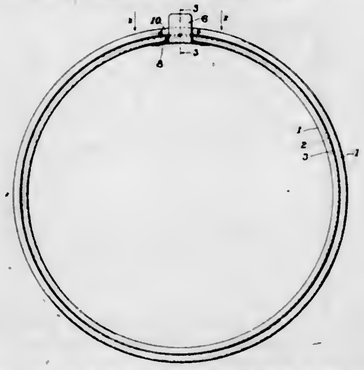
1. In an electrical control system; a plurality of pairs of conductors, comprising the output circuits of the reproducing equipment associated with previously recorded records, arranged for connection with the input circuit of a broadcasting equipment; a set of keys; means controlled by the actuation of a key of said set for selectively preparing the system for the connection of one or a combination of said first pairs of conductors with the input circuit depending on the key actuated, a pair of impulse conductors over which impulses are transmitted at the start and close of each program, means then automatically operated in response to the receipt of an impulse over one of said impulse conductors to connect a selected one of the plurality of pairs of conductors to the input circuit; and means automatically effective in response to the receipt of another impulse over the other impulse conductor to bring about the disconnection of such pair of conductors at the conclusion of the transmission of a program over such pair, to fully restore the control system to normal in case the selection made constituted but one program, and to alternatively bring about such disconnection and the connection of a second of said plurality of pairs with said input circuit in case the selection initially made constituted more than one record.

1,944,689
MOVEMENT CONTROLLING DEVICE
Earl L. Heverly, Chicago, Ill., assignor to Norton Door Closer Co., Division of Yale & Towne Mfg. Co., New York, N. Y., a corporation of Connecticut
Application May 9, 1932. Serial No. 610,093
8 Claims. (Cl. 188—97)



1. A fluid pressure shock absorber comprising a cylinder, a fluid controlled piston operating therein, a rack movable with said piston and lying within said cylinder, a pinion meshing with said rack and a gear meshing with said pinion and lying substantially outside said cylinder, whereby said gear does not interfere with the movement of said piston.

1,944,690
EMBROIDERY HOOP
John D. Karle, Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application August 26, 1931. Serial No. 559,399
4 Claims. (Cl. 112—121)



1. An embroidery hoop comprising inner and outer hoop-elements engageable with and disengageable from one-another by relative endwise telescopic sliding movements, and a needle-guard carried by the inner hoop-element and overlapping the outer hoop-element, said needle-guard being spaced above the plane of the lower edges of said rings a distance less than the distance from the usual sewing machine throat-plate to the point of the raised sewing machine needle.

1,944,691
DEVICE FOR USE IN APPLYING LIP STICK
Martha Libby, New Haven, Conn.
Application May 9, 1933. Serial No. 670,068
4 Claims. (Cl. 132—1)

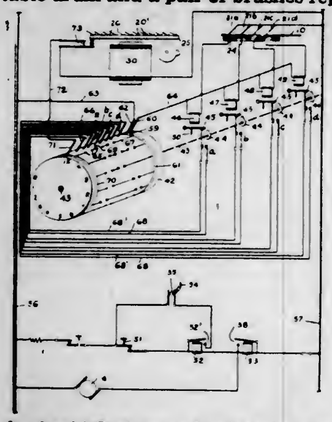


1. A device for printing in lipstick an outline of the desired design directly upon the lip surfaces to be colored, the said device comprising a metal bar bowed to the desired outline and provided at its ends with finger-grips for stiffening it and pressing it uniformly against the lips and removing it therefrom, preparatory to manually filling in the outline in lipstick, the rear face of the said bar being adapted for the adherence of lipstick and the outer edge forming the outer edge of the desired design.

1,944,692
PERFORATED CARD SORTING MACHINE
Adelbert C. Maby, Jamaica Estates, Long Island, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 6, 1928. Serial No. 244,791
5 Claims. (Cl. 209—110)

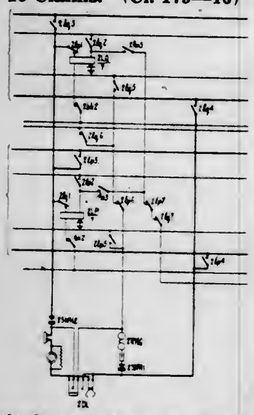
1. In a perforated record sorting machine, means for feeding records having a plurality of perforation positions in a column, a pair of electric circuit contacts representing each contact position in a column, means for simultaneously sensing a plurality of such positions on a record while the record is in motion and adapted to cause

closure of one or more of said pairs of contacts, a rotatable drum and a pair of brushes represent-



ing each of said first named pairs of contacts and adapted to cooperate therewith to control the disposition of the card.

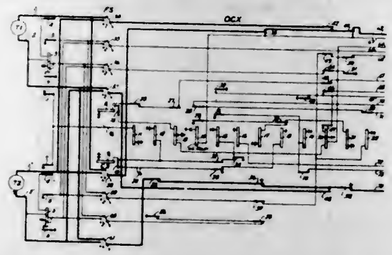
1,944,693
TELEPHONE SYSTEM
Ernest Courtman Oliver, Cheshire, England, assignor to Associated Telephone and Telegraph Company, Chicago, Ill., a corporation of Delaware
Application December 7, 1931, Serial No. 579,505, and in Great Britain December 12, 1930
16 Claims. (Cl. 179—16)



1. In a telephone system, a plurality of lines each equipped with a dial, impulse responsive equipment for completing connections between said lines, said equipment being normally disconnected from all of said lines, and means responsive to the movement of one of said dials from its normal position for associating said equipment with the associated line.

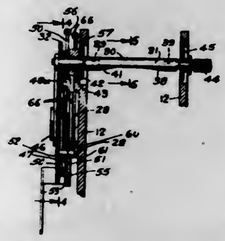
1,944,694
TELEPHONE SYSTEM
Edward S. Peterson, Elmwood, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application July 18, 1932. Serial No. 623,083
20 Claims. (Cl. 179—26)

1. In a combined manual and operator controlled telephone system, a trunk line extending from the manual exchange to the operator controlled exchange, a finder switch and a connector switch in the operator controlled exchange permanently connected with said trunk, means controlled over a calling line for operating said finder to connect the trunk line with the calling



line, an impulsing relay in the operator controlled exchange controlled over one conductor of said trunk line from the manual exchange to set the connector switch on the contacts of a desired called line to complete a desired connection.

1,944,695
TIME STAMP
Burdette H. Phillips, Endicott, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 25, 1931
Serial No. 565,093
7 Claims. (Cl. 197—175)

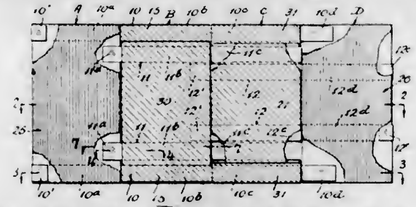


1. In combination, a ribbon driving shaft having a flat portion, a ribbon spool loosely mounted on said shaft and having a cut-away portion adapted to face the flat portion, and means for securing the end of the ribbon to said spool comprising a member having lugs extending partially around the spool and over the ribbon to secure the latter to the spool, said clip having a portion thereof extending through the cut-away portion in the spool and in yielding contact with the flat portion of the shaft whereby to provide a yielding driving connection between the ribbon spool and the driving shaft.

1,944,696
FOLDING PANEL DEVICE
Ernst Reichl, New York, N. Y.
Application October 17, 1933. Serial No. 693,901
8 Claims. (Cl. 45—106)

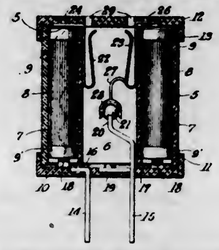
1. A folding panel device of the character described comprising a plurality of panels, straps fastened at their ends to certain of said panels and extending loosely across other of said panels

and connecting said panels together for relative unfolding movements in both right hand and



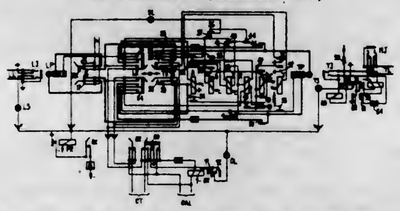
left hand directions, and panel elements carried by both sides of said straps.

1,944,697
ELECTRICAL CONNECTER
Carlo Salvati, Brooklyn, N. Y.
Application July 29, 1932. Serial No. 625,604
6 Claims. (Cl. 200—115.5)



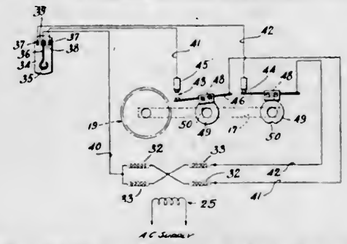
1. An electric connecter comprising a body housing, forming a shell, having a wall of substantial thickness, a plurality of fuse cartridges located within said wall, a base closure covering one end of said housing, means to interconnect at said closure one terminal each of all of the fuse cartridges, a rotatable, removable closure at the other end of said housing, means on said removable closure to contact, one at a time, the second terminal of the fuse cartridge, plug connecters on the removable olosure and contactors protruding from the base closure, one of said contactors and plug connecters to serve as terminals for one of said fuses and the other of said contactors to connect with the remaining plug connecter.

1,944,698
TELEPHONE SYSTEM
Rudolph Frank Stehlik, Chicago, Ill., assignor to Associated Telephone and Telegraph Company, Chicago, Ill., a corporation of Delaware
Application September 28, 1931, Serial No. 565,440, and in Great Britain October 1, 1930
10 Claims. (Cl. 179—27)



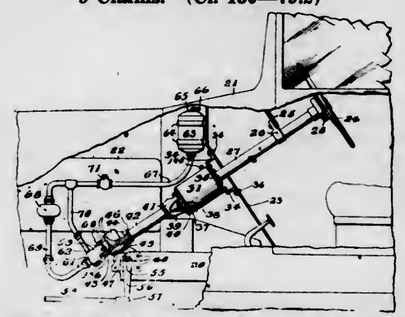
1. In a telephone system, a manual board, a plurality of incoming lines each terminating in a jack at said board, a signal associated with each line, a plug ending cord circuit including a listening key, means responsive to a call received over one of said lines for operating the associated signal, and means jointly responsive to the insertion of the answering plug of said cord circuit in the jack of the calling line and the operation of said listening key for restoring said signal.

1,944,699
AIR CONDITIONING SYSTEM
Duncan J. Stewart, Rockford, Ill., assignor to Howard D. Colman, Rockford, Ill.
Application May 26, 1930. Serial No. 455,787
2 Claims. (Cl. 236—74)



2. In an air conditioning system, the combination of a regulating device, an induction motor for actuating said device having a stator with a primary winding thereon constantly excited by alternating current during the operation of said system and producing a magnetic field threading the rotor of said motor, a starting coil composed of a relatively large number of turns and having currents induced therein by said magnetic field when the coil is short-circuited whereby to initiate rotation of said rotor, and a sensitive control instrumentality having a switch means of the open contact type operated in response to changes in the condition of the surrounding air and adapted to short-circuit said coil and thereby initiate rotation of said rotor and to interrupt the coil circuit whereby to render the same ineffectual.

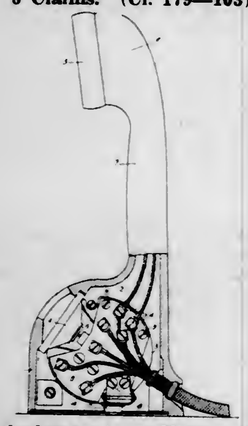
1,944,700
STEERING MECHANISM, ETC.
William O. Tait, Jr., Crestwood, N. Y.
Application November 27, 1931
Serial No. 577,531
5 Claims. (Cl. 180—79.2)



1. In a vehicle steering device, a liquid container, a pump, an intake pipe connecting said container with said pump, a fixed cylinder, a fixed housing extending from one end of said cylinder coaxial therewith, a control shaft within said cylinder and housing having a liquid inlet chamber positioned longitudinally within one end of said cylinder and a liquid outlet chamber positioned longitudinally within the other end of said

cylinder and having ports, a liquid supply pipe from the outlet of said pump to said inlet chamber, a power shaft surrounding said supply pipe coaxial with said cylinder, a rotor column carried on said power shaft extending within said cylinder and surrounding said control shaft within the cylinder, a rotor blade carried on said rotor column extending between the heads of said cylinder and having its outer edge in contact with the inner surface of said cylinder, said rotor column having ports on each side of said blade adapted to align with the ports in said control shaft, a stator blade fixed within said cylinder extending between the heads of said cylinder and having one edge in contact with the outer surface of said rotor column, a lost motion clutch connecting said control shaft with said power shaft, said power shaft having a liquid discharge passage from said outlet chamber in communication with a pipe leading to said pump intake pipe, a worm gear mounted on said power shaft, a quadrant driven by said gear, a steering wheel operatively connected to said control shaft, and means for directing said vehicle actuated by said quadrant.

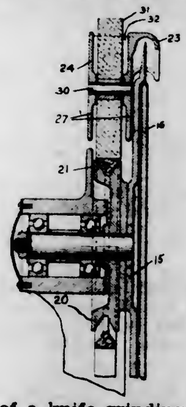
1,944,701
TELEPHONE SET
Otto Weeber, Berlin-Charlottenburg, and Otto Soldan, Berlin-Siemensstadt, Germany, assignors to Siemens & Halske Aktiengesellschaft, Wernerwerk Siemensstadt, near Berlin, Germany
Application July 8, 1932, Serial No. 621,344, and in Germany July 9, 1931
6 Claims. (Cl. 179—103)



2. In a telephone set, a self supporting unitary structure having, a receiver unit in its upper portion, a voice current transmitter unit in its base portion, and an impulse transmitter of the dial type in the base portion and with its dial facing a direction at right angles to the receiver and voice current transmitter units.

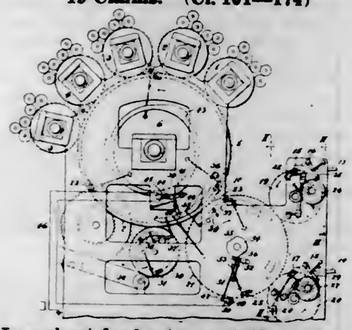
1,944,702
KNIFE SHARPENER
George R. Wood, Toronto, Ontario, Canada, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 27, 1931
Serial No. 577,543
2 Claims. (Cl. 51—241)

1. A sharpening attachment for a slicing machine having a knife, a frame on which the knife is mounted, a guard for a portion of the knife edge, and driving means for the knife located contiguous to one side of said knife and substantially concealed by the frame; characterized by



the provision of a knife grinding device carried by aforesaid guard, said guard being movable towards the driving means to engage or disengage the grinding device for driving coaction with aforesaid driving means.

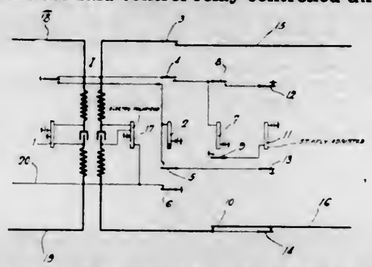
1,944,703
SHEET FEED ROTARY PRINTING PRESS
Howard M. Barber, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application July 12, 1932. Serial No. 622,053
19 Claims. (Cl. 101—174)



1. In a sheet feed rotary printing press, an impression cylinder having a plurality of impression surfaces, a rotary carrier arranged to alternately take sheets directly from two sources and transfer the sheets directly to successive impression cylinder surfaces, and means, controlled by the failure of a sheet to be taken by the transfer carrier, for causing the impression cylinder to retain a previously printed sheet thereon beyond its delivery point.

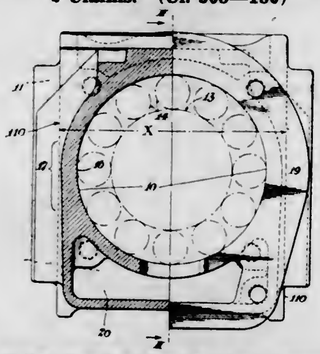
1,944,704
IMPULSE REPEATER
John I. Bellamy, Brookfield, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application February 15, 1932. Serial No. 593,002
10 Claims. (Cl. 179—16)

1. In an impulse repeater, a line relay, a slow-releasing control relay, repeating apparatus controlled by said line relay to deliver impulses, and a circuit for said control relay controlled directly



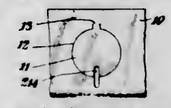
and individually by said line relay and said repeating apparatus.

1,944,705
ROLLER BEARING JOURNAL BOX
Albert O. Buckius, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application January 8, 1930. Serial No. 419,251
3 Claims. (Cl. 308—180)



1. A roller bearing journal box comprising a casting formed substantially entirely of normally ductile material, having a central bore extending therethrough, a roller raceway surrounding said bore, said raceway being formed integral with said casting and pedestal guideways formed integral with said casting on opposite sides of the bore, said raceway and only those portions of the faces of said guideways not directly opposite said bore being provided with integral wear-resistant surfaces of higher carbon content than the main body of the box.

1,944,706
KNOCK-OUT
Hugh A. Calderwood, Pittsburgh, Pa., assignor to National Electric Products Corporation, New York, N. Y., a corporation of Delaware
Application April 24, 1931. Serial No. 532,409
1 Claim. (Cl. 247—26)



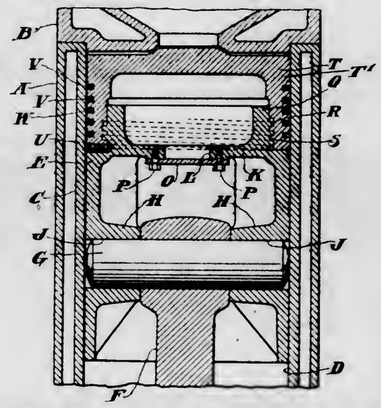
In an electric protective means, a casing having a pry-out in a wall thereof, said pry-out being provided with an opening for the reception of a prying tool whereby said pry-out may be pried loose from said wall, said pry-out being defined by a portion of the circumference of a circle, said opening being disposed partly within and partly without said circle, said opening being elongated and having its long dimension lying substantially radially with respect to said circle.

1,944,707
REMOVABLE KNOCK-OUT
Martin M. Clayton, Baden, Pa., assignor to National Electric Products Corporation, New York, N. Y., a corporation of Delaware
Application December 14, 1929
Serial No. 413,997
3 Claims. (Cl. 247—26)



1. In a device having a wall with knock-out portions therein intended for removal when desired, said knock-out having integral uncut portions securing the same to the wall, and an implement receiving opening within the area of the knock-out, extending through the knock-out and disposed between and substantially in alignment with the uncut portions so that upon inserting an implement and rocking it said uncut portions act as shearable pivots which are completely twisted and sheared off so that the knock-out may be removed by manipulation of a single implement.

1,944,708
PISTON
Fritjof Frelin, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application November 10, 1931
Serial No. 574,095
1 Claim. (Cl. 309—15)



A piston having an end wall and an aperture in the end wall, a ring-like reduced extension on the end wall, a head threaded on the extension and forming a closure for the outer end of the extension, a skirt on the head and being of greater length than the extension to avoid contact between the extension and the end of the head, a cover within the piston seated on the end wall to form a closure for the interiors of the extension and the head, and means for securing the cover to the end wall.

1,944,709

REFRACTORY BODY AND PROCESS OF MANUFACTURING THE SAME

Konrad Friedersdorff, Bergisch-Gladbach, Germany, assignor to Stellawerk Aktiengesellschaft vormals Wilisch & Co., Berlin-Wilmersdorf, Germany, a corporation of Germany

No Drawing. Application December 30, 1930, Serial No. 505,581, and in Germany January 4, 1930

22 Claims. (Cl. 25—156)

1. The herein described method of manufacturing refractory bodies, which consists in first making a composition of a base material in the form of coarse grains of similar size, grains of smaller size, the size and amount of the said grains of smaller size being such that they are adapted to fill out the interstices between the coarser grains without forcing the same apart, matter smaller in size than the said grains of smaller size and having a size such that it is adapted to fill out the interstices between the grains of larger and smaller size, adding pieces of stable matter larger in size than the said coarse grains, and manufacturing bodies from said composition.

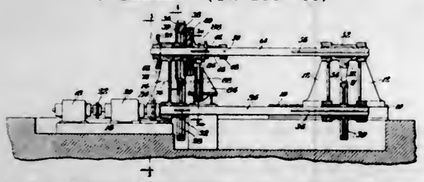
1,944,710

FLYING CUTTER

Arthur B. Haswell, Birmingham, Ala.

Application July 16, 1930. Serial No. 468,376

3 Claims. (Cl. 164—68)



1. A machine for cutting moving metal comprising a cutter swingable back and forth in arcuate paths and a rotary anvil which in coaction with said cutter is operative to simultaneously feed the metal lengthwise and sever it transversely, and means effective to cause said cutter to engage and cut the work upon its forward movement and to clear the work upon its rearward movement.

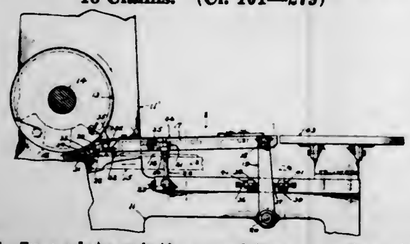
1,944,711

SHEET FEEDING MECHANISM

William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York; Irving Trust Company, receiver

Application July 12, 1930. Serial No. 467,534

18 Claims. (Cl. 101—279)



1. In a plate printing machine, a moving plate support with a printing plate thereon, an impression cylinder, and a feeding roller adapted to cooperate with the impression cylinder to take a sheet and feed it forward to engage with the plate.

1,944,712

SHEET OR SIGNATURE DELIVERY MECHANISM

Edward R. Kast, Pearl River, N. Y., assignor to Dexter Folder Company, New York, N. Y., a corporation of New York

Application August 5, 1929. Serial No. 383,576

16 Claims. (Cl. 270—80)



1. In a machine of the character described, a pair of delivery rollers each provided at corresponding points thereon with angularly related flattened surfaces, an element for introducing a signature between angularly related flattened surfaces of said rollers respectively, and means for operating the rollers and said element in timed relation so that curved portions of the rollers grip the signature at one side of its fold line after said signature has been introduced between angularly related surfaces of the rollers as aforesaid.

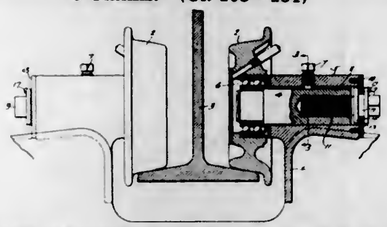
1,944,713

HOIST

Charles V. Koons, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 29, 1931. Serial No. 533,810

5 Claims. (Cl. 105—154)



1. The combination with a housing having a guide passage therein, of a journal member longitudinally adjustable in said guide, said journal member having a threaded opening in one end, an adjusting screw threaded into said opening, said screw having a circumferential groove, elements secured to said housing and extending into said groove to prevent axial movement of the adjusting screw while permitting rotation thereof to adjust the journal member in the guide, means for releasably locking the adjusting screw against rotation, and releasable means for immobilizing the journal member with respect to the housing.

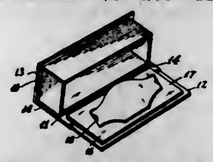
1,944,714

JEWELRY BOX AND CONTAINER

Meyer Lehmann, New York, N. Y.

Application February 1, 1933. Serial No. 654,580

6 Claims. (Cl. 206—44)



1. In a jewelry container, a box having an open top, a cover hinged on one side of said top for closing the open top, the bottom of said box and one side and the cover being of larger dimensions than the box so as to extend past the size of the box simulating a book having covers and a binding, a cover jewelry support member removably mounted upon the inside of said cover and of a size to snugly fit within the top of the box for frictionally holding the cover closed, the covering material on said member extending over the front and sides of said member and beneath the back and held in place by reason of said member maintaining its place.

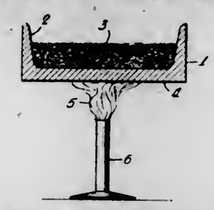
1,944,715

MANUFACTURE OF CARBON BLACK

George Charles Lewis, New Dorp, N. Y., assignor to Columbian Carbon Company, New York, N. Y., a corporation of Delaware

Application June 28, 1930. Serial No. 464,508

6 Claims. (Cl. 134—60)



1. The process of manufacturing carbon black which includes the step of impinging a hydrocarbon flame on a metallic depository having a layer of insulating material selected from the group consisting of fireclay, ceramic cements, and asbestos, on some of the unimpinged portions of said depository.

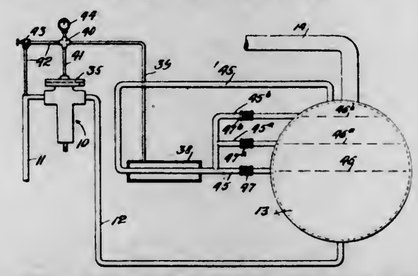
1,944,716

APPARATUS FOR CONTROLLING THE LEVEL OF LIQUIDS

Henry H. Marshall, Highland Park, N. J., assignor, by mesne assignments, to Carrier Research Corporation, Newark, N. J., a corporation of New Jersey

Application May 14, 1930. Serial No. 452,216

10 Claims. (Cl. 62—8)



1. In a refrigerating system, the combination with a container receiving liquid refrigerant and a thermostatic pressure reducing valve for controlling the level of liquid refrigerant in said container, of a thermal unit connected with said valve to operate the same and means for varying the temperature of said thermal unit in accordance with variations in liquid level in said container and thereby operating the valve to maintain a predetermined liquid level in said container, such temperature varying means including a pipe to cooperate with said thermal unit in determining the temperature of the latter, means for connecting said pipe at one side of said thermal unit with said container at different predetermined levels to be maintained, and a connection between said pipe at the other side of said thermal unit with said container at a point higher than any of said predetermined levels.

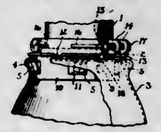
1,944,717

SNAP-ON HOLDER

Paul D. Phillips, Des Plaines, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois

Application November 7, 1932. Serial No. 641,504

5 Claims. (Cl. 240—128)



1. The combination with a shade or reflector construction having an inwardly extending annular flange at its upper portion, of a shade holder construction comprising a collar insertable into the opening of the flange, spring latching means carried by the collar for snapping over the flange, and means for securing said collar in position with respect to a socket, said collar having an opening therein and said spring latching member lying partly within said collar and having a portion extending through said collar opening for engaging underneath said flange.
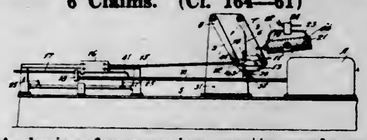
1,944,718

DEVICE FOR SEVERING CONTINUOUSLY MOVING ARTICLES INTO DESIRED LENGTHS

Albert Rafter, Belleville, N. J., assignor to Rafter Machine Company, Belleville, N. J., a partnership composed of Albert Rafter and John C. Rafter, Jr.

Application October 27, 1932. Serial No. 639,774

6 Claims. (Cl. 164—61)



1. A device for severing continuously moving metal tubing into desired lengths, comprising a platform upon which the tubing moves, a bracket positioned adjacent the platform, a frame formed from two parallelograms having their links pivotally connected, a cutter supported by the frame, means to swing the frame in a plane substantially parallel to the plane in which the tubing moves to bring the cutter into cutting engagement with the tubing, and means to cause the cutter and tubing to move together at the same speed during the cutting operation.

1,944,719

ELECTRIC SOCKET CONNECTION

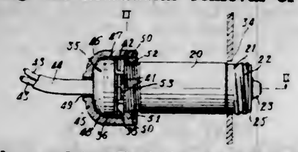
Adolf Regenauer and Francis E. Reynolds, Waukegan, Ill.; said Reynolds assignor of one-fourth of his right to said Regenauer

Application August 4, 1930. Serial No. 472,787

5 Claims. (Cl. 173—343)

1. In a device of the character described, the combination with a terminal plug for telescopic electrical connection to an electrical source, of a cap housing removably associated with said plug, said plug being received in said cap housing, and

means on the periphery of said cap housing for precluding the accidental removal of said ter-



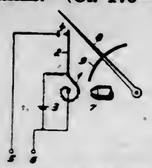
minal plug and to effect the detachable mechanical connection thereof to said electrical source against accidental detachment therefrom.

1,944,720
MICROPHONE FOR THE DEAF
Helmut Sell, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application August 15, 1930, Serial No. 475,576, and in Germany August 17, 1929
2 Claims. (Cl. 179—127)



1. A transmitter of the class described consisting of a plurality of separate microphones preferably connected in series, a rectangular diaphragm having longitudinal and transverse resonances both substantially within the range of the characteristic speech frequency band to be transmitted, a case containing the diaphragm and the microphones, said diaphragm being common to the microphones and adapted to vibrate bodily as a whole to develop at least two different resonance frequencies of which the one, a longitudinal resonance, is determined chiefly by the length of the diaphragm and the other, a transverse resonance, by the width thereof.

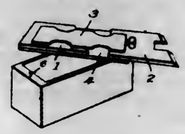
1,944,721
CONTROL DEVICE FOR ELECTRIC CURRENTS
Helmut Sell, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application September 4, 1930, Serial No. 479,642, and in Germany February 15, 1930
5 Claims. (Cl. 175—320)



1. A device of the character described, comprising means for giving a predetermined direction to a current of fluid, a temperature-sensitive member arranged to be struck by said current, a screen movable edgewise across said current to prevent its reaching said member, and means for moving said screen.

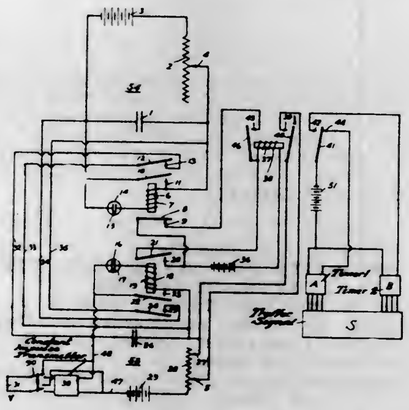
1,944,722
NOVELTY LOCK BOX
Karl Soderberg, New Port Richey, Fla.
Application April 11, 1932. Serial No. 604,565
3 Claims. (Cl. 206—1.5)

1. The combination with a box, of a cover having sliding and pivotal connection with the box, a pivoted concealed lock inserted in one end wall of the box, having a screw attached to the upper end of the lock, with a reception slot in



the main cover, said lock to be operated from an opening, finger hole, in the pivoted movable top section as and for the purpose described.

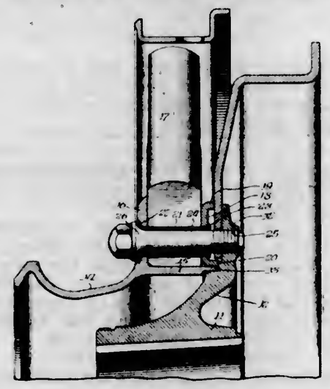
1,944,723
CONTROL FOR TRAFFIC SIGNAL SYSTEMS
Eugene D. Stirlen and John L. Bisch, New Haven, Conn., assignors to The Engineering and Research Corporation, New Haven, Conn., a corporation of Connecticut
Application April 15, 1930. Serial No. 444,463
12 Claims. (Cl. 177—337)



1. In combination, a traffic signaling means operable according to any one of a plurality of signaling plans, a condenser, means for charging said condenser at a rate dependent upon traffic density, means acting upon the condenser being charged to a predetermined value to change the signaling plan, and means to periodically discharge said condenser.

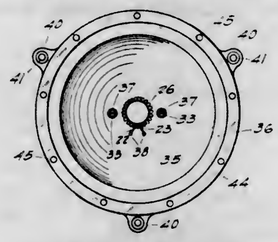
1,944,724
HUB ASSEMBLY FOR WHEELS
Charles R. Stough, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application September 13, 1928
Serial No. 305,649
3 Claims. (Cl. 301—9)

3. In a demountable wheel, the combination with a hub flange, of a spoked wheel comprising front and rear wheel assembly plates disposed on each side of the spokes in the hub zone, means for permanently clamping the plates upon the wheel spokes comprising tubular rivets having flaring mouths, and coaxial means for clamping the assembled spokes and plates upon the hub flange, said means comprising bolts disposed loosely within the tubular rivets and having heads flared upon a greater radius than the



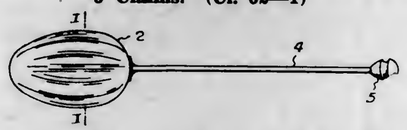
flaring mouths of the rivets whereby a line contact bearing of the bolts and rivets is assured.

1,944,725
ELECTRODYNAMIC SPEAKER
Henry S. Tenny, Oakland, Calif., assignor to The Rola Company, Cleveland, Ohio, a corporation of Ohio
Application May 27, 1930. Serial No. 456,115
Renewed April 8, 1933
7 Claims. (Cl. 179—115.5)



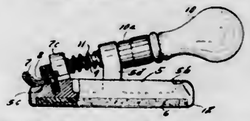
1. In combination with an electro-dynamic sound translating device having a cone diaphragm, a voice coil spider and mounting screws therefor; apertures formed in said diaphragm in registry with said voice coil spider mounting screws for permitting adjustment of said voice coil after assembly of the device.

1,944,726
COOLING DEVICE
James Aiken, Forest Hills, N. Y.
Application March 18, 1932. Serial No. 599,839
5 Claims. (Cl. 62—1)



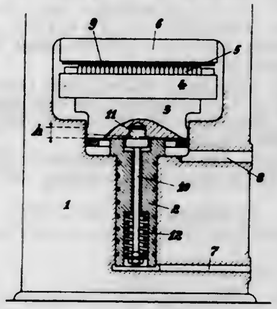
1. A cooling device of the character described comprising a thin-walled member containing a liquid to be frozen, annular corrugations in the walls of said member to permit expansion, and a stem whereby the said member may be immersed in and may serve to mix or stir the liquid to be cooled.

1,944,727
HAND SANDING TOOL
Charles Blomstrom, Minneapolis, Minn.
Application March 14, 1932. Serial No. 598,701
7 Claims. (Cl. 51—187)



7. A hand abrading tool having in combination, a body having a flat under surface, a thin sheet of abrasive material, said body having means at its rear end for holding one end of said sheet, a member disposed on said body at its front end having means for holding the other end of said sheet, said member being movable longitudinally on the top of said body for tightening said sheet, a screw journaled in said body at its upper side and connected to said member for moving the same, and a handle secured to said screw extending upwardly and rearwardly longitudinally of said body for turning said screw and also forming a handle for holding and manipulating said device.

1,944,728
MATRIX MOLDING PRESS
Ernst Brockel, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a corporation of Germany
Application December 22, 1931, Serial No. 582,530, and in Germany December 27, 1930
4 Claims. (Cl. 101—12)

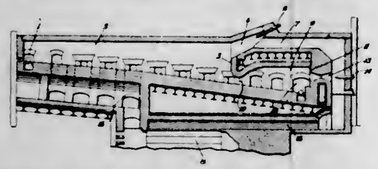


1. In a hydraulic molding press, a guide piston slidably mounted for only straight line movement, a separate pressure piston yieldably mounted on the guide piston, means for the actuation of the guide piston to move the pressure piston therewith to an operative position, and separate means for the subsequent actuation of the pressure piston independently of the guide piston.

1,944,729
CONTINUOUS FURNACE
Samuel Charlesworth, Mount Vernon, Ohio, assignor, by mesne assignments, to Surface Combustion Corporation, Toledo, Ohio, a corporation of New York
Application September 17, 1930
Serial No. 482,432
4 Claims. (Cl. 263—17)

1. The method of operating reheating furnaces which consists in passing the materials to be heated successively through a heating chamber into and through a soaking chamber, supplying each piece of material with substantially all of the heat required to raise it to the desired work-

ing temperature while in the heating chamber, and permitting the absorbed heat in each piece of



material to equalize and become uniform in its passage through the soaking chamber.

1,944,730

COMPOSITION FOR DIELECTRIC USE

Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application May 28, 1932 Serial No. 614,196
2 Claims. (Cl. 252—1)

1. A dielectric material comprising mainly liquid chlorinated benzene, said material having a solidification temperature at least as low as 5° C. having a specific gravity between the limits of about 1.43 and 1.48 and being characterized by chemical stability, high dielectric constant and resistivity, and the chlorine content thereof being in such proportion to the hydrogen content as to yield only substantially non-inflammable gas upon being thermally or electrically decomposed.

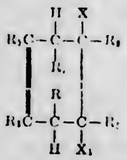
1,944,731

ORGANIC COMPOUND HAVING HYDROGENATED RING SYSTEMS AND PROCESS OF PREPARING IT

Otto Diels and Kurt Alder, Kiel, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany

No Drawing. Application October 29, 1928, Serial No. 315,915, and in Germany November 5, 1927
15 Claims. (Cl. 260—123)

2. Compounds of the following probable structure:



in which R_1 and R_4 are hydrogen, methyl or phenyl, or R_1 and R_4 together constitute an alkylene radical, —N CH_3—, or —O—, R_2 is hydrogen or alkyl, R_3 is hydrogen or alkyl, R_5 is CO-methyl, COH, COOH, R_6 is hydrogen, methyl, or with R_5 the group



or COOH when R_5 is COOH and X and X_1 are hydrogen or methyl, said compounds being obtainable by causing a compound of the following general structure:



wherein R_5 stands for CO-methyl, COH, COOH and R_6 is hydrogen, methyl or with R_5 the group



or COOH when R_5 is COOH and X and X_1 are hydrogen or methyl to react with an organic compound containing a system of conjugated carbon-carbon double bonds.

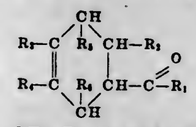
1,944,732

COMPOUNDS HAVING HYDROGENATED RING SYSTEMS AND PROCESS OF PREPARING THEM

Otto Diels and Kurt Alder, Kiel, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Original application October 29, 1928, Serial No. 315,915, and in Germany November 5, 1927. Divided and this application January 13, 1930. Serial No. 420,626
16 Claims. (Cl. 260—136)

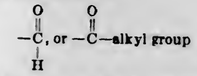
8. Compounds of the following probable formula:



wherein each of R_1, R_2, R_3 and R_4 is hydrogen or alkyl, R_5 is hydrogen and R_6 is hydrogen or alkyl or R_5 and R_6 together form an alkylene chain contained within a ring of six carbon atoms, as indicated above, and in every instance at least one of R_2, R_3, R_4 and R_6 is hydrogen, said compounds being obtainable by causing a compound of the formula:



wherein R_1 stands for a



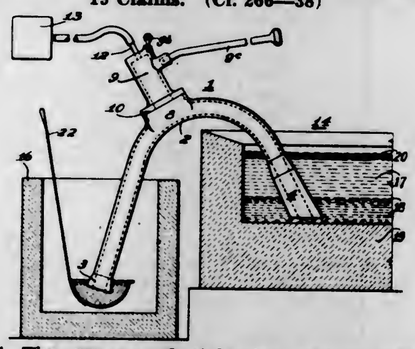
and R_2 for hydrogen or alkyl to react with a compound containing a system of two conjugated carbon-carbon double bonds.

1,944,733

SIPHONING METAL

Victor C. Doerschuk and Erwin G. Schoeffel, Massena, N. Y., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 22, 1932. Serial No. 639,106
19 Claims. (Cl. 266—38)



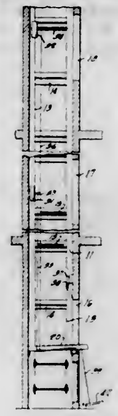
1. The process of siphoning molten metal, which comprises drawing through a siphon molten material having a higher melting point than the metal, cooling said material by contact with the siphon to form a protective coating on the inner surface thereof, and drawing the molten metal through the siphon.

1,944,734

CONVEYER

Louis E. Dupuy, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts

Application June 9, 1931. Serial No. 543,061
11 Claims. (Cl. 198—26)



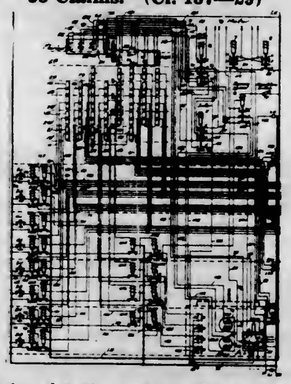
1. In a conveyer by which articles are despatched from a station to any one of several receiving stations, means at each receiving station for stopping said conveyer and means for selectively positioning the article upon the conveyer so that, upon its arrival at the predestined receiving station, the article will actuate the conveyer stopping means at such station.

1,944,735

SIGNALING SYSTEM

William F. Eames, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application May 12, 1928, Serial No. 277,149
Renewed June 28, 1933
38 Claims. (Cl. 187—29)



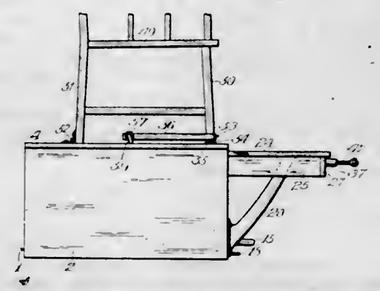
2. In a signal system for an elevator operable at a normal speed and at an express speed, means for registering calls for stops, and means responsive to the registration of a call for a stop for rendering the express-speed operating means ineffective.

1,944,736

SHOE SHINING STAND

Claude D. Funk, Princeton, Ind.

Application May 23, 1931. Serial No. 539,514
4 Claims. (Cl. 15—265)



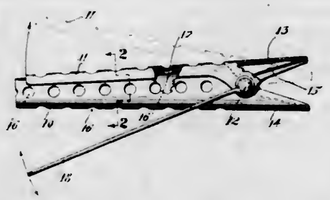
1. A shoe-shining stand including a platform structure, two standards bodily supported forward of the structure and foot-rest plates thereon respectively, and a shelf slidingly guided by the structure to pass under said plates and having two narrow slots therein receiving the standards respectively upon forward movement of the shelf, the shelf having a control handle intermediately of said slots, and extending beyond and almost completely surrounding the said plates.

1,944,737

HAIR WAVER

Jacob Goodman, Brooklyn, N. Y., assignor to Delamere Company, Inc., a corporation of Delaware

Application November 1, 1932. Serial No. 640,585
1 Claim. (Cl. 132—41)



A hair waver of the type set forth including a hollow tubular member formed with axially disposed rows of ventilating perforations, the rows being spaced circumferentially of the member, and there being at least one row at the top of the member and two opposed rows at the sides thereof, a cover member conformably fitted on the upper portion of the tubular member and hinged to the latter adjacent one end thereof, said member having a longitudinally disposed row of ventilation perforations of substantially the diameter of the perforations of the tubular member and being disposed in register with the row of perforations at the top of the tubular member, and the sides of the cover member being disposed spaced above the respective said rows of perforations at the sides of the tubular member and a clamping member pivoted to the tubular member to hold the hair in place.

1,944,738

METHOD FOR CONTROLLING OXIDATION OF HALIDE SOLUTIONS TO LIBERATE FREE HALOGEN

John J. Grebe and Ray H. Boundy, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application July 31, 1930. Serial No. 472,027
4 Claims. (Cl. 23—217)

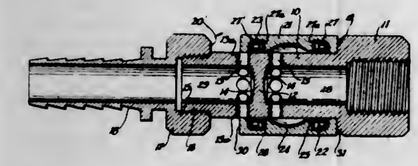
1. In a process of extracting bromine from sea water wherein the same is acidified and bromine is liberated by addition of chlorine thereto, the method of controlling such chlorination which comprises producing an electromotive force varying in response to variations in the concentration of free bromine in the acidified solution and regulating the addition of chlorine in accordance with such electromotive force to maintain the latter at approximately 1.215 volt referred to the standard hydrogen scale.

1,944,739

VALVE

Nathan C. Hunt, Salem, Ohio

Original application April 25, 1930, Serial No. 447,309, now Patent No. 1,850,879, March 22, 1932. Divided and this application December 16, 1931, Serial No. 581,341, and in Germany April 16, 1931
4 Claims. (Cl. 251—8)



2. A valve including a tubular valve body having a transverse partition wall forming pressure and exhaust side compartments therein, there being ports in the tubular wall leading from each compartment, a sleeve mounted for movement on the valve body, there being an internal groove in said sleeve always communicating with said pressure side ports and establishing communication between all of said ports when the sleeve is in "on" position, two flexible channel-shaped packing rings carried by the sleeve interposed between the valve body and sleeve, the open sides of the channel-shaped rings being directed toward each other and always communicating through said sleeve groove with the pressure side ports, and said exhaust side ports being uncovered when the sleeve is in an "off" position providing means for bleeding the exhaust side of the valve.

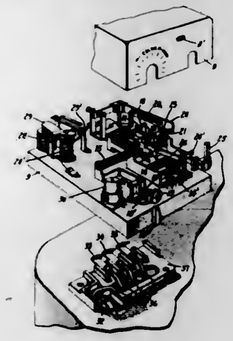
4. A valve including a tubular valve body having a transverse partition wall forming pressure and exhaust side compartments therein, there being ports in the tubular wall leading from each compartment, a sleeve mounted for movement on the valve body, there being an internal groove in said sleeve always communicating with said pressure side ports and establishing communication between all of said ports when the sleeve is in "on" position, two packing rings carried by the sleeve interposed between the valve body and sleeve, one of said packing rings moving across said exhaust side ports when the sleeve is moved to an "off" position, the outer edges of said ports being provided with rounded corners whereby said corners do not cut or destroy said packing ring movable thereacross, and said exhaust side ports being uncovered when the sleeve is in an "off" position providing means for bleeding the exhaust side of the valve.

1,944,740

COMBINED AUTOMATIC AND MANUAL CIRCUIT-CONTROL DEVICES

Leonard P. Hutt, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original application February 28, 1930, Serial No. 432,204. Divided and this application August 5, 1932. Serial No. 627,590
7 Claims. (Cl. 62—4)



1. In combination, an electric refrigerator control device including a base, a motor controlling switch mechanism mounted on said base responsive to predetermined temperature and overload conditions to control a refrigerator motor, a motor controlling resistor mounted on said base responsive to overload conditions, motor controlling electro-responsive means on said base, said switch mechanism, resistor and electro-responsive means being electrically interconnected to provide a controlling circuit for a refrigerator motor, rigid contacts extending through said base and electrically connected to said resistor, switch mechanism, and electro-responsive means, an independently mounted sub-panel carrying thereon resilient motor circuit contact members electrically connected to the refrigerator motor, said rigid contacts and resilient contact members being arranged in cooperating spaced relation to provide quick detachable electrical connections for said control device.

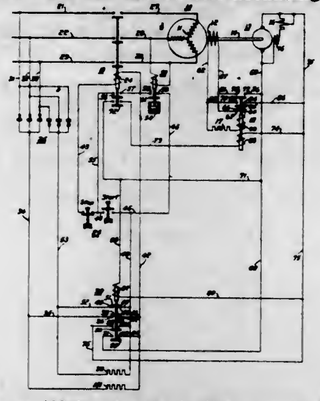
1,944,741

CONTROL SYSTEM

Donovan E. Inman, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application December 19, 1930
Serial No. 503,405
8 Claims. (Cl. 172—289)

7. In a motor-control system, in combination, an alternating-current motor, a source of alternating-current power for the motor, a source of direct current for energizing the field winding of the motor, switching-means for connecting the motor to the alternating-current source of power, means for actuating the switching means when energized by a direct current, rectifying means disposed to energize the switch-actuating means, and means for automatically transferring the connections for the switch-actuating means



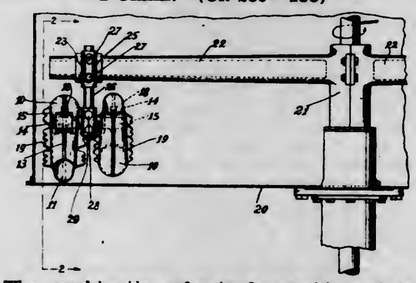
from the rectifying means to the source of direct current under predetermined conditions.

1,944,742

AGITATOR

Andreas R. Keller, Lombard, Ill.

Application August 22, 1932. Serial No. 629,990
1 Claim. (Cl. 259—135)



The combination of a tank, a spider rotatably mounted in said tank, and a plurality of agitators, each agitator having a hollow, conical body open on both ends and provided at its smaller end with a scoop-like prolongation, the agitators being arranged on the arms of the spider in pairs and in an inclined position, the scoop-like prolongation of one agitator of each pair extending upwardly and the prolongation of the other agitator of each pair extending downwardly, all prolongations extending forwardly in the direction of rotation of the spider and being adapted to force contents of the tank into the hollow body of the agitator.

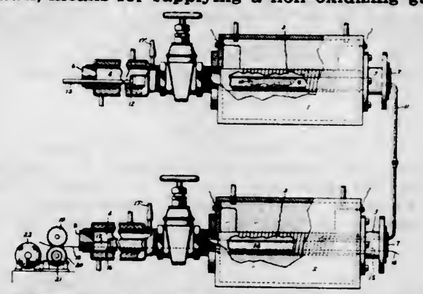
1,944,743

METHOD FOR ANNEALING STEEL

Floyd C. Kelley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 26, 1930. Serial No. 464,044
3 Claims. (Cl. 148—16)

1. In combination, a furnace comprising a cooled portion, an extension and a heating chamber intermediate said extension and cooled portion, a substantially closed tube mounted in said heating chamber, one end of said tube being within said extension and the other end within the cooling chamber, said tube being provided with relatively small openings in opposite ends thereof through which a metal strip may be drawn, means for supplying a non-oxidizing gas



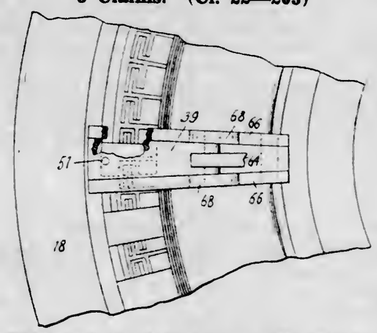
to said heating chamber, and means for supplying a gas to said tube.

1,944,744

METHOD OF MAKING MOLDS

Otto J. Kuhlke, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio

Original application April 27, 1929, Serial No. 358,659. Divided and this application February 27, 1930. Serial No. 431,846
3 Claims. (Cl. 22—203)



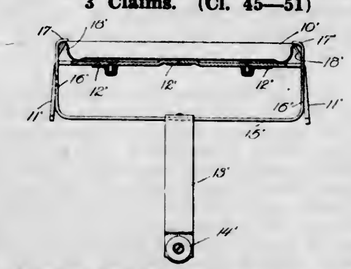
1. The method of making molds which comprises casting a series of spaced pattern-molding units in place in the outer shell of a mold section, and then casting a second series of pattern-molding units in the spaces left between the first-mentioned pattern-molding units.

1,944,745

BRACE ATTACHMENT FOR CURB SERVICE TRAYS

Fred S. Lack, Paducah, Ky., assignor, by mesne assignments, to Tray Service Company, Dallas, Tex., a corporation of Texas

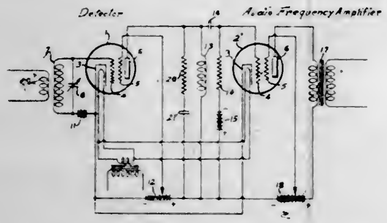
Application January 2, 1931. Serial No. 506,227
3 Claims. (Cl. 45—51)



1. A brace attachment for serving trays having legs comprising, in combination, a substantially U-shaped strap metal member having arms

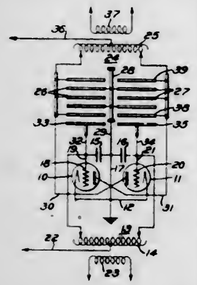
each presenting an inwardly bent flange to overlie and engage the rim of the tray; inwardly offset fingers on the arms adapted to engage the lower surface of the rim; and a brace secured to the U-shaped member presenting a cushion to rest against the side of an automobile door.

1,944,746
AUDIO-FREQUENCY AMPLIFIER
Vernon D. Landon, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application April 20, 1929. Serial No. 356,712
2 Claims. (Cl. 179—171)



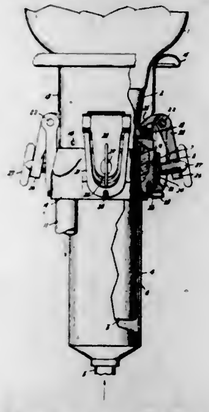
1. In combination, a thermionic device having an output circuit constituted by an inductor having a reactance of substantially 200,000 ohms at 100 cycles, and a resistor of the order of one-quarter megohms and a condenser of the order of .005 microfarad connected serially in shunt to said inductor, said shunt connection being substantially devoid of inductance.

1,944,747
PUSH-PULL AMPLIFIER
Edmund A. Laport, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application February 28, 1931. Serial No. 518,923
4 Claims. (Cl. 179—171)



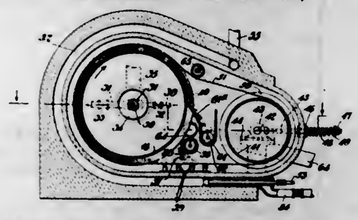
1. An amplifier including two electron tubes connected in push-pull and having a cathode, a grid, and an anode and having an output circuit, said output circuit including a resonant circuit comprising capacity and inductance units, the mid-point of one of said units being connected to said cathodes, said anodes being connected to said resonant circuit at opposite sides of said mid-point by means of cross-connections, and a neutralizing condenser connected between the grid of each tube and the side of the resonant circuit which is connected to the anode of the opposite tube.

1,944,748
CLAMPING DEVICE FOR WATER-JACKETED POWER TUBES
Edward A. Leach, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 13, 1932. Serial No. 622,265
4 Claims. (Cl. 250—27.5)



1. In combination, an electric discharge device comprising a vitreous tube and a hollow metal electrode sealed to said tube, a flange secured to said electrode, a water jacket surrounding said electrode and provided with a groove, means for detachably securing said flange to said water jacket, said means comprising a pair of members rotatably mounted on a common axis, one of said members terminating in a jaw portion and being adapted to contact with said flange, and the other of said members terminating in a portion which engages the said groove on the water jacket, and means for applying pressure to one of the rotatable members whereby one member is rotated with respect to the other member, and the jaw and the said portion which engages said groove are caused to clamp the water jacket and flange together.

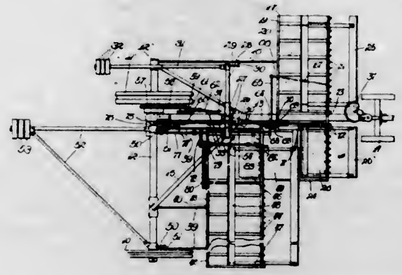
1,944,749
CARBONIZATION APPARATUS
Henry O. Loebell, Malba, Long Island, N. Y., assignor to Henry L. Doherty, New York, N. Y.
Application March 18, 1929. Serial No. 347,802
19 Claims. (Cl. 202—22)



1. Carbonizing apparatus comprising a rotatable hollow drum of heat-resistant material, means for heating the interior of the drum, flexible means of high temperature heat resistant material surrounding the drum and adapted to carry material to be carbonized into direct contact with the external surface of the drum, and yielding means associated with the drum and with the said flexible means for moving the two

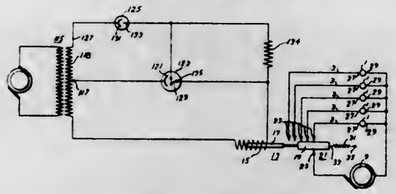
in unison while pressing them toward each other into pressing engagement with the said material and means for adjusting the pressure thus exerted on the material.

1,944,750
WINDROW HARVESTER
Alexus C. Lindgren, Chicago, and Clemma R. Raney, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application November 22, 1930
Serial No. 497,412
21 Claims. (Cl. 56—23)



1. In a windrow harvester, means for severing standing grain into a separate straw portion and a separate head portion and leaving a standing field stubble portion, means for laying the separate straw portion in a windrow on the field stubble portion, and means for laying the separate head portion in a windrow on the aforementioned windrow.

1,944,751
LIGHT CONTROL SYSTEM
Frederick W. Lyle, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application July 18, 1930. Serial No. 468,866
2 Claims. (Cl. 240—9)



1. In combination with a plurality of separate light sources for illuminating a given area, each light source operating at substantially rated potential, a source of energy for said light sources, switch means for controlling said light sources comprising a separate contact connected to each light source, a movable contactor biased to connect all said contacts to said source of energy, a solenoid arranged when energized to pull said contactor against its bias, photo-electric means responsive to the illumination of said area to increase the energizing current through said solenoid as said illumination increases, said contacts and movable contactor being so disposed that movement of said contactor against its bias successively disconnects said contacts from said source of energy.

1,944,752
GUARD
Morton C. Maish, Cincinnati, Ohio
Application October 30, 1929. Serial No. 403,500
4 Claims. (Cl. 128—133)



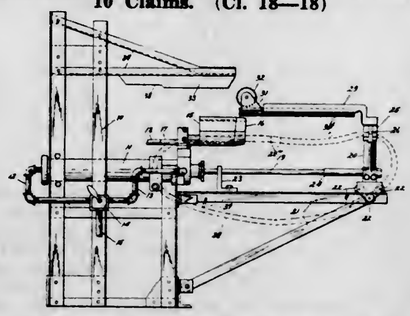
1. A device of the class described, comprising a plurality of twisted wire strands, said wire strands forming a plurality of spaced rings of single strand, connecting bars between said rings of twisted double strand, and limbs of twisted double strand extending from an end ring for attaching the device.

1,944,753
WELDING ELECTRODE
David L. Mathias, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application May 16, 1931. Serial No. 537,796
9 Claims. (Cl. 219—8)



1. A welding electrode comprising a metallic core and a surface coating of flux material, said flux material being anchored to said core by means of a combination of first and second-class conductors helically wound thereon.

1,944,754
SPLICE VULCANIZING APPARATUS
Andrew B. Mullin, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application February 10, 1931. Serial No. 514,773
10 Claims. (Cl. 18—18)



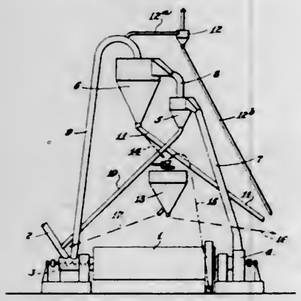
4. In a tube-splice-vulcanizing apparatus, the combination of a vulcanizer comprising a tubular mandrel adapted to receive a tube therethrough, means spaced from the mandrel in axial alignment therewith for gripping the tube, means for moving the tube-gripping means toward the mandrel to cuff the tube thereover, and a lateral support for the tube between the mandrel and the tube-gripping member.

1,944,755

GRINDING IN TUBE MILLS AND THE LIKE

Niels Nielsen, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey

Application April 23, 1932, Serial No. 607,167, and in Great Britain April 23, 1931
2 Claims. (Cl. 83—9)



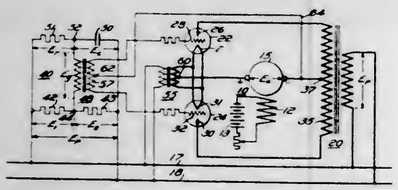
1. The combination with a grinding mill, of means to induce a current of air through the mill, a separator, means to conduct particles on the current of air from the mill to the separator, a second separator, means to conduct the coarser particles from the first named separator to the second named separator, mechanical means to discharge particles from the mill and transfer them to said second separator, means to conduct away the finer particles from the second named separator, and means to return the coarser particles from the second named separator to the mill.

1,944,756

REGULATING SYSTEM

Lawrence R. Quarles, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 10, 1932. Serial No. 616,482
6 Claims. (Cl. 171—312)



6. In combination with a direct-current motor having an armature winding and a field winding, means for supplying to one of said windings a unidirectional energizing current of substantially constant magnitude, a source of alternating-current power, current-rectifying and controlling means comprising a gas-filled electronic tube having a grid element and anode and cathode elements connected intermediate the said source of power and the other of said motor windings, means for influencing said grid element by a wave of control voltage of fixed phase relation with respect to the power-source voltage wave, and means for superimposing upon said control-voltage wave a direct-current potential the magnitude of which varies with the speed of said motor.

1,944,757

COMBINED SERVICE TRAY AND STAND

Matthew Ritter, Oakland, Calif.

Application April 3, 1931. Serial No. 527,427
2 Claims. (Cl. 45—11)



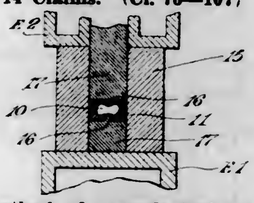
1. In a combination service tray and stand, a tray element, legs hingedly mounted on said tray for alternative disposal in operative or inoperative positions thereof, detent means normally operative to retain a said leg in its operative position, a lever member mounted on said leg for a rocking movement between limiting positions thereof against the leg and about an axis parallel to the axis of hinging of the leg, a free end of said lever member arranged for manual engagement laterally thereof for rocking the lever to a said limiting position thereof whereby the lever is arranged to thereafter function as a rigid extension of the leg for rocking the latter to an inoperative position, and means whereby the rocking of the lever to said last limiting position thereof is arranged to effect the release of the said detent means.

1,944,758

METHOD OF MAKING DRAWING DIES

Adrian P. Roux, Oriskany, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey

Application September 12, 1929
Serial No. 391,994
14 Claims. (Cl. 76—107)



1. The method of manufacturing a drawing die which comprises holding a hard core piece between projections on carbon plugs in a carbon mold filled between the plugs about the core piece with a finely divided mixture of tungsten carbide and a metal, sintering the mixture by an electric current while pressure is maintained upon the material within the mold, the projections breaking down to permit continued pressure on the material as it shrinks about the core, cooling the die blank so formed while the pressure is maintained, and piercing the blank through the core at the depressions left by the plug-projections.

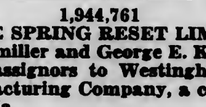
1,944,759

DRAWING DIE

Adrian P. Roux, Oriskany, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey

Original application September 12, 1929, Serial No. 391,994. Divided and this application July 8, 1930. Serial No. 466,442
8 Claims. (Cl. 205—29)

1. A drawing die comprising a diamond core embedded in a matrix formed of a tungsten carbide composition which is substantially free from voids, the die being pierced through the core to



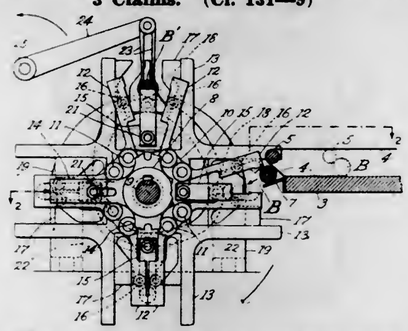
form the drawing bore and the restricted portion of the bore being located in the care.

1,944,760

CIGAR BUNCH ROLLING AND SHAPING MACHINE

Rupert E. Rundell, Rockville Center, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application October 15, 1932. Serial No. 638,019
3 Claims. (Cl. 131—9)



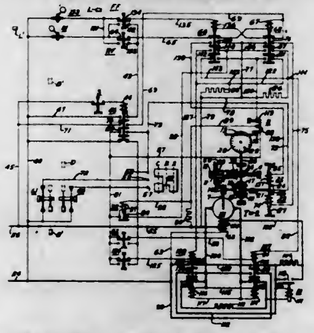
1. The combination with a rotatable turret, of a plurality of cigar bunch shaping devices carried by said turret and each including a pair of shaping jaws swingably mounted on the turret, and means for opening and closing said shaping jaws, and bunch rolling mechanism arranged to deliver bunches directly to said shaping jaws when open, said means operating to move the leading jaw of each pair of swingable jaws into horizontal position at one station of the turret to receive the bunch thereon from said rolling mechanism, and said devices also including a reciprocable jaw moving between the closed shaping jaws to compress the bunch against the closed shaping jaws.

1,944,761

REVERSIBLE SPRING RESET LIMIT SWITCH

Oren G. Rutemiller and George E. King, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania

Application August 13, 1931. Serial No. 556,790
6 Claims. (Cl. 172—239)



1. A measuring control device for controlling the operation of a motor comprising a casing, a spindle mounted in the casing and mechanically coupled to the motor to be controlled, a second spindle mounted in the casing, selective clutch means for causing the second spindle to operate in the same direction regardless of the direction of rotation of the motor, means for preselecting the number of revolutions the motor is to take at each operation, indicating means mounted on the second spindle, means for starting the operation of the motor and means controlled by the indicating means for stopping the motor when a preselected number of revolutions have been effected.

1,944,762

EXPULSION FUSE

Jerome Sandin, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application September 26, 1929
Serial No. 395,266
12 Claims. (Cl. 200—127)



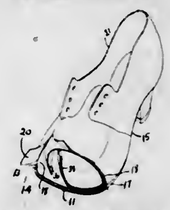
1. The combination with an expulsion fuse having an open end insulating outer tube and a fuse element therein adapted to rupture under a predetermined current value, of an insulating inner tube within the main tube surrounding the fuse element and made of insulating fiber that gives off un-ionized gases when the tube is subjected to heat of the arc incident to rupture of the fuse element within the inner tube and which is of insufficient strength to withstand the pressures generated by an arc incident to rupture of the fuse under short circuit conditions.

1,944,763

SHOE AND METHOD OF MAKING THE SAME

Ernst Schneider, Bad Kreuznach, Germany, assignor to Benjamin H. Stern, New York, N. Y.

Application July 14, 1933, Serial No. 680,349, and in Germany May 25, 1932
11 Claims. (Cl. 12—142)



1. The method of making shoes which comprises in combination the steps of supplying an outsole having an upstanding flange, supplying an upper and a lining joined together, attaching said upper to said flange, turning in the edge of

said lining, inserting an insole, and completing the shoe.

11. A shoe of the class described comprising in combination a sole having a heel portion and a forward portion, said sole being provided with an upstanding flange having a reduced portion, said reduced portion on the forward part of the sole extending from the top of said flange down to a line spaced from the tread surface of the sole and said reduced portion at the said heel portion extending from the top of said flange down to the heel seat line, an upper having a bottom marginal edge, said edge being attached to said reduced portion, and a heel attached to said heel seat.

1,944,764

ELECTRIC SWITCH

Percy G. Shaw, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application October 26, 1931. Serial No. 571,091

4 Claims. (Cl. 200—67)



1. In an electric switch, a receptacle of insulating material, contacts secured in said receptacle, a lever of U shape having outwardly projecting lugs pivoted in recesses in said receptacle and inwardly projecting lugs, a contact connected to said lever, a spring engaging the lever and adapted to be held in position by said inwardly projecting lugs during assembly of the switch, an operating handle engaging said spring and pivoted on integral stub shafts in recesses in said receptacle, and a supporting strap engaging the stub shafts to hold the operating handle in position in said receptacle.

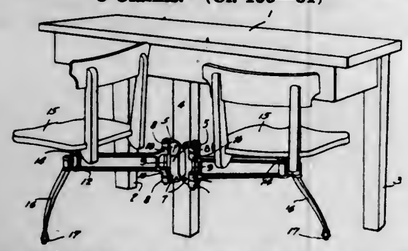
1,944,765

DESK STRUCTURE

Edgar H. Sheldon, Muskegon, Mich., assignor to E. H. Sheldon & Company, Muskegon, Mich., a corporation of Michigan

Application June 30, 1930. Serial No. 464,795

3 Claims. (Cl. 155—81)



3. A desk structure comprising: A top member having a single upright supporting member located intermediate the ends of the front edge of said top member, and rear supporting members adjacent the ends of the rear edge of said top member; arms pivotally connected to said single supporting member, swingable toward each end of said top member; means carried by the free ends of the arms respectively and engaging the floor for supporting said free ends; and chairs horizontally turnably mounted on said arms respectively, said chairs and arms being movable to a position partially under said top member and movable from said position to a position of use.

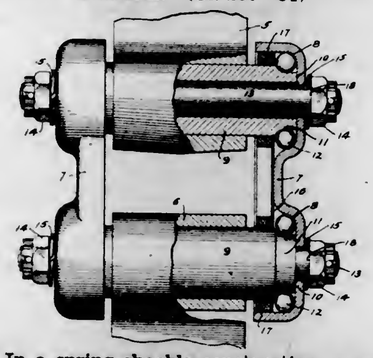
1,944,766

SPRING CONNECTION

John W. Smith, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut

Application December 4, 1930. Serial No. 499,924

4 Claims. (Cl. 267—54)



1. In a spring shackle construction, a pair of shackle links having raceways for anti-friction bearing devices at spaced points thereon, tubular means to be carried by a spring, tubular means to be carried by a frame, said tubular means having raceways for anti-friction bearing devices complementary to said first mentioned raceways, anti-friction bearing devices interposed between said complementary raceways, said tubular means being interposed between and engaging said shackle links for spacing the same apart, and means extending through said tubular means for connecting said shackle links together so spaced apart.

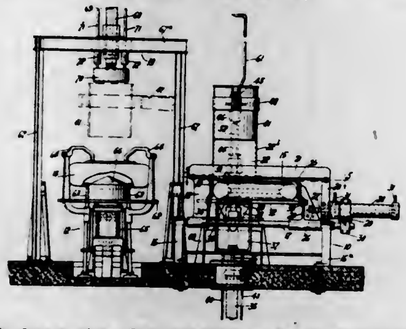
1,944,767

METHOD AND APPARATUS FOR MOUNTING EXPANSIBLE CORES IN TIRE CASINGS

Horace D. Stevens, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application March 28, 1931. Serial No. 525,994

7 Claims. (Cl. 18—2)



6. Apparatus for mounting flexible cores in tires, said apparatus comprising a core-folding device including a support for a circular core, means for deforming the core to elliptical shape while on said support, a tubular guide adjacent said support, said guide being of smaller diameter than the long diameter of the deformed core, and means for forcing the middle thereof into the guide whereby the core is doubled, and means for ejecting the core from the tubular guide into a tire.

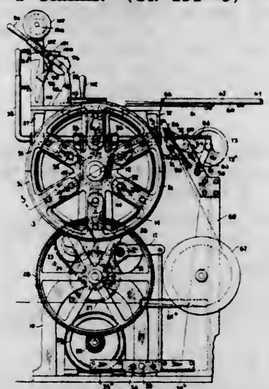
1,944,768

METHOD OF BUILDING BEADS FOR TIRES

William C. Stevens, Uniontown, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Original application June 13, 1925, Serial No. 36,898, now Patent No. 1,855,426, dated April 26, 1932. Divided and this application May 20, 1931. Serial No. 538,634

4 Claims. (Cl. 154—9)



1. A method for building beads comprising, forming a transversely flat band of fabric, applying convolutions of material, including wire and rubber filler, to the band intermediate its edges to form a core, expanding the fabric outwardly of the core to cover the sides thereof, and turning one side of the expanded band over the core to completely cover the core and stitching it onto the other side of the band to form a flip on the bead.

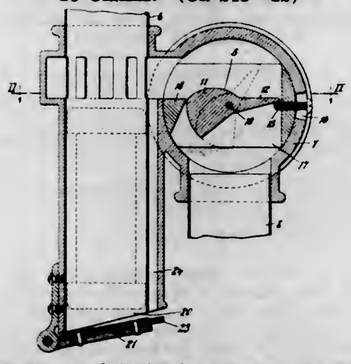
1,944,769

PNEUMATIC DISPATCH APPARATUS

Joseph John Stoetzel, Queens Village, N. Y., assignor to G & G Atlas Systems, Inc., New York, N. Y., a corporation of New York

Application March 16, 1929. Serial No. 347,520

16 Claims. (Cl. 243—12)



1. In a control device for a pneumatic dispatch transmission tube, a valve casing, and a valve normally held open by gravity but arranged to be closed by the air pressure when the flow of air exceeds a predetermined limit and to be held closed by the difference in pressure on the two sides of the valve, a slight flow of air being permitted when said valve is closed.

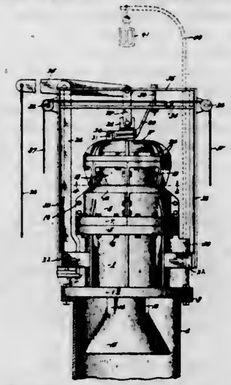
1,944,770

EXPLOSION OR BLEEDER VALVE FOR BLAST FURNACES

Michael Svorcina, Chicago, Ill.

Application May 15, 1933. Serial No. 671,186

16 Claims. (Cl. 137—53)



1. An explosion valve for use at the upper end of a vent pipe, comprising an upright tubular valve body adapted to surmount the said pipe, a valve plunger extending through the valve body and having upper and lower heads respectively adapted to close the upper and lower ends of the bore of the said body; means operable from the exterior of the valve body for raising the plunger and for rotationally moving the plunger; the valve body and the plunger having relatively cooperating stop portions adapted to be engaged, when the said plunger is in a certain rotational position with respect to the valve body, to limit the raising of the plunger to a position in which the said heads are both out of their closure positions.

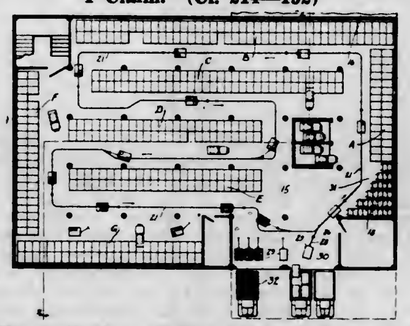
1,944,771

METHOD FOR THE HANDLING OF MATERIAL

Jervis B. Webb, Royal Oak, and Herbert A. Stevenson, St. Clair Shores, Mich.

Application July 27, 1931. Serial No. 553,322

1 Claim. (Cl. 214—152)



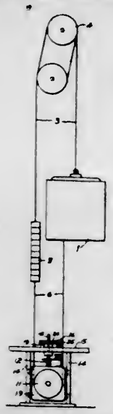
The method of storing and shipping material which consists in storing goods in bulk according to a predetermined classification in specially designated storage floor areas, maintaining in a

selector floor area removed from said storage areas, a complete stock consisting of a relatively small quantity of each item of a number of diverse items, the goods in the selector area being arranged in ranks with each item placed in a predetermined location according to a definite complete shipping order classification, arranging said ranks so as to form aisles or passageways from which the goods in said ranks will be readily accessible and so that a continuous passageway is provided upon such selector floor, providing a shipping space or area on said selector floor with which such passageway is in communication, maintaining a continuously operating load transporting mechanism and causing the same to traverse from said shipping space through said passageway past said complete stock, providing a plurality of load carrying members for detachable connection to said load transporting mechanism, transferring from said ranks such items as may be required to fill and assemble a complete order on a load carrying member by a single operator who accompanies such load carrying member in its travel, removing the load carrying member with its complete assembled order from said load transporting mechanism at said shipping space, maintaining a supply of merchandise in bulk on floor areas removed from said selector floor and in accordance with the same classification as maintained on said selector floor and replenishing as required the ranks of said selector floor with goods from said bulk storage areas.

1,944,772
ELEVATOR COMPENSATING ROPE SHEAVE

Kenneth M. White, Mooresville, Ind., assignor to Westinghouse Electric Elevator Company, Chicago, Ill., a corporation of Illinois

Application September 10, 1932
Serial No. 632,511
6 Claims. (Cl. 187—22)

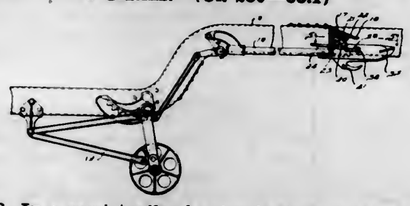


1. The combination with a car and a counterweight interconnected by hoist cables passing over a hoist sheave at the top of the hatchway, of a compensating sheave at the lower end of the hatchway, compensating cables interconnected between the car and the counterweight and passing under the compensating sheave, vertical guides between which the compensating sheave is free to move, resilient biasing means for continuously biasing said compensating sheave downwardly, and means responsive to the slackening of the compensating cables for maintaining the biasing means above predetermined pressure.

1,944,773
SEMITRAILER

Sidney B. Winn, Lapeer, Mich.

Application July 27, 1932. Serial No. 625,012
9 Claims. (Cl. 280—33.1)

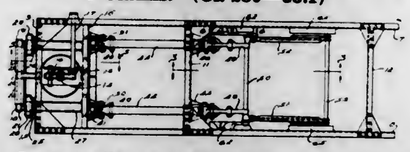


3. In a semi-trailer having brakes, brake operating means, and means for coupling said trailer to a tractor; comprising a pair of pivoted coupler jaws, means for operating said brake operating means, and means rigidly extended from one of said coupler jaws for actuating said latter means whereby said brake operating means is held in a brake applying position when the trailer is uncoupled from the tractor.

1,944,774
SEMITRAILER

Sidney B. Winn, Lapeer, Mich.

Application July 27, 1932. Serial No. 625,013
9 Claims. (Cl. 280—33.1)

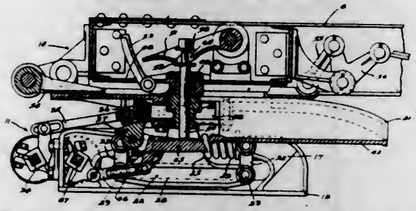


1. In a trailer, a trailer support including a plurality of connected rigid side members and a plurality of rigid cross members, an axle secured across the lower end of said support, wheels mounted on said axle, brackets secured to the sides of the trailer and having means to receive and hold the ends of certain of said rigid cross members, and means for moving said support as a unit and including an arm operatively connected with one of said rigid cross members, and a flexible link member operatively connected to said arm, and means for moving said flexible link member and said arm including a pivotally mounted depending plate and means adjacent thereto for transmitting movement of said plate to said flexible link member.

1,944,775
FIFTH WHEEL COUPLING FOR TRACTOR-TRAILER COMBINATIONS

Sidney B. Winn, Lapeer, Mich.

Application July 27, 1932. Serial No. 625,015
3 Claims. (Cl. 280—33.1)

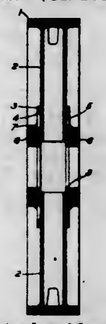


1. In a tractor trailer combination in which the tractor includes a rear support portion and the trailer includes a forward portion adapted to be supported on the tractor; a base member mounted on the rear portion of the tractor, a fifth wheel supporting element, longitudinally disposed rods included as parts of the base member, said fifth wheel supporting member traversed by said rods, links flexibly supporting the ends of the supporting member on the frame, springs between the supporting member and the base member on the rods, a lower fifth wheel element horizontally pivoted on the supporting member, an upper fifth wheel element pivotally mounted on the forward end of the trailer, and means for coupling said tractor and trailer when the fifth wheels are superimposed.

1,944,776
FABRICATED STEEL SPIDER

Edwin E. Arnold, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application January 30, 1930. Serial No. 424,590
9 Claims. (Cl. 171—252)

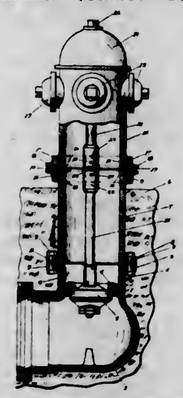


1. A fabricated steel spider comprising a plurality of radially disposed structural steel spokes, an annular stress-plate at the side of the spokes near the inner ends thereof, the stress-plates having holes in register with the faces of the respective spokes, said holes being of less diameter than the respective widths of the faces of the spokes, the stress-plate being integrally united to the faces of the spokes at the peripheries of the holes.

1,944,777
HYDRANT

Frederick R. Banks, Elmira, N. Y., assignor to The Kennedy Valve Mfg. Co., Elmira, N. Y.

Application December 23, 1931
Serial No. 582,777
5 Claims. (Cl. 287—108)



4. A frangible coupling comprising a hollow sleeve adapted to receive abutting ends of rods or the like, said sleeve having an annular groove circumferentially thereof to render it frangible.

1,944,778
METHOD OF PROTECTING LEAD AGAINST CORROSION

Henri Benit, Paris, France, assignor to Compagnie Generale D'Electricite, Paris, France

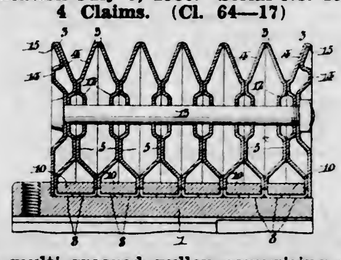
No Drawing. Application May 7, 1931, Serial No. 535,810, and in Germany May 7, 1930
3 Claims. (Cl. 173—266)

1. In a method of preventing corrosion of the lead sheathing of electric cables wherein the lead sheathing is protected against mechanical deterioration by a layer of a suitable covering material not chemically neutral and not adapted to protect the lead against corrosion, incorporating sulphur to the said protective materials in such quantity that on contact of the lead with these materials a film of lead sulphide will be immediately formed thereon and there will remain in the said protective materials an excess of sulphurating material constantly active to renew any worn portion of the said lead sulphide film, and so prevent the destructive effects of electrolytic phenomena on the lead.

1,944,779
MULTIGROOVED PULLEY

Russell H. Bowen, Philadelphia, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 3, 1930. Serial No. 465,504
4 Claims. (Cl. 64—17)

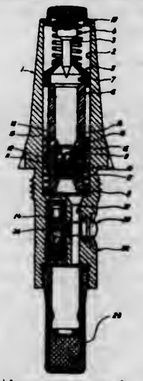


1. A multi-grooved pulley comprising a hub; annular stamped metal disks each formed with an outer inclined groove wall and a slotted flange on the inner edge, and means surrounding said slotted flanges and securing them to the hub.

1,944,780
PERCUSSION FUSE OF HIGH SENSITIVITY

Edgar William Brandt, Paris, France

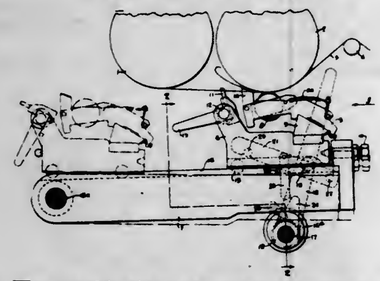
Application November 12, 1932, Serial No. 642,443, and in France November 30, 1931
9 Claims. (Cl. 102—39)



1. A direct-action percussion fuse comprising a body having an axially directed elongated cav-

ity, said cavity opening out adjacent its forward end into an enlarged space, a striker adapted to be pushed backward through and beyond said enlarged space into said cavity by an obstacle, a primer, a primer holder movable axially in the cavity, a releasable safety device for locking said primer holder adjacent the backward end of the cavity, distance elements carried by the primer holder and retained by the wall of the cavity in an inward position where they screen the primer against impact of the striker, the primer holder being free after firing to creep forward in the cavity by inertia when the projectile is being retarded by air resistance and thus reach the enlarged space into which the distance elements can escape outwardly for unscreening the primer thus arming the fuse.

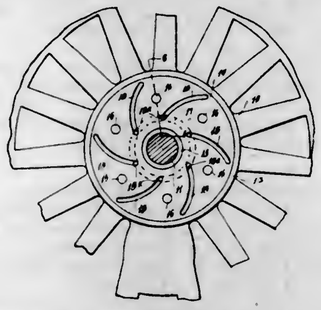
1,944,781
SLITTING DEVICE
James A. Cameron, Brooklyn, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a corporation of New York
Application August 27, 1930. Serial No. 478,073
7 Claims. (Cl. 164—65)



1. The combination of a pair of surface winding drums spaced apart, located at approximately the same level and rotatable in the same direction, the rear one of which has a smooth surface and constitutes a backing member with which a score-cut slitting device coacts, means to guide a web of flexible material to the underside of the rear drum, the web thereafter passing to the underside of the front drum, a track extending from a point beneath the rear drum to a point adjacent the front of the front drum, means to raise and lower the track, a carriage movable over said track from a position beneath the rear drum to a position adjacent the front of the front drum and vice versa, and a score-cut slitting device mounted on said carriage to coact with the rear drum.

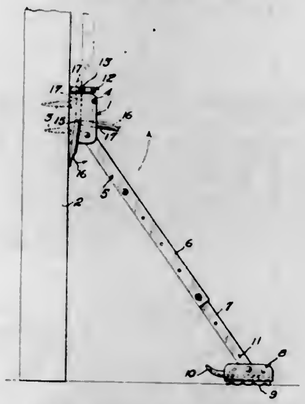
1,944,782
WHEEL HUB PLATE
Matthias Christman, Springfield, Mo.
Application August 27, 1931. Serial No. 559,766
1 Claim. (Cl. 308—165)

A hub plate, comprising a circular disk provided with a central opening to receive an axle, said disk being securable to and rotatable with a wheel hub and bearing against a bearing structure, said disk having lubricant distributing grooves in its bearing face extending radially thereof, the opposite face of the disk provided with a circumferential groove surrounding said central opening and alined with the ends of the first mentioned grooves adjacent to the central opening of the disk, said circumferential groove communicating with the first mentioned grooves through openings in the disk, said circumferential groove providing means for supplying lubricant to the first mentioned grooves at their



ends adjacent to the axle for distribution along said grooves by centrifugal force.

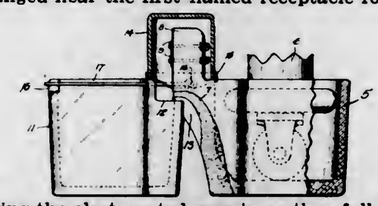
1,944,783
DOOR HOLDER
Edward Ciriacy and Herold Bradley, Aliquippa, Pa.
Application April 21, 1933. Serial No. 667,288
1 Claim. (Cl. 292—338)



A door holder comprising a bracket secured to a door, an adjustable leg pivoted to the bracket, a shoe pivoted to the leg, a non-skid element secured to the shoe for engagement with a hard surface, prongs on the shoe to engage a soft surface when said shoe is positioned in substantially parallelism with the leg, and means for releasably holding the shoe in the last-named position.

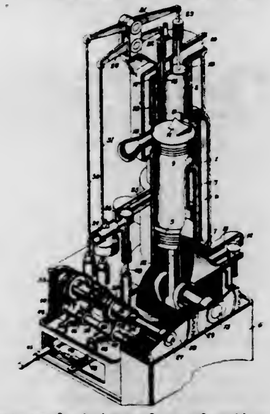
1,944,784
DEVICE FOR DESTROYING VERMIN
Lydia Cook, Burlington, Iowa
Application March 14, 1932. Serial No. 598,843
3 Claims. (Cl. 43—123)

1. A vermin destroyer, comprising a receptacle for receiving the lower end of the leg of a bed and having its outer surface smooth except for a roughened path, a supporting element mounted upon the upper portion of the receptacle at one side thereof and having the roughened path continued thereon, spaced electrodes carried by the supporting element with one electrode having the roughened path leading thereto, means for connecting the electrodes to the opposite pole of a source of current, and a collecting receptacle arranged near the first-named receptacle for re-



ceiving the electrocuted vermin as they fall from the electrodes.

1,944,785
INTERNAL COMBUSTION ENGINE
James H. Crary, Westport, N. Y.
Application June 7, 1932. Serial No. 615,889
7 Claims. (Cl. 123—69)



6. A two-cycle internal combustion engine including a cylinder, the upper end of which constitutes an explosion chamber, the lower end communicating with a crank case constituting an air compression chamber, and the intermediate portion of said cylinder comprising a fuel compression chamber, a working piston in the cylinder and an enlargement on the working piston constituting a compression piston for both the air and fuel compression chambers, the cylinder having an air by-pass from the crank case which is uncovered by the piston, and a fuel by-pass to the end of the cylinder, a mechanically operated fuel inlet valve controlling the fuel by-pass, said cylinder having a main exhaust port uncovered by the piston and an auxiliary exhaust port at the end of the cylinder, a mechanically operated valve controlling the exhaust port, a fuel inlet valve controlling the intake of fuel to the compression chamber, and means to advance the opening and closing time of the fuel intake valve as the timing of the exhaust valve is retarded, said fuel inlet valve comprising a longitudinally adjustable rotary member having a longitudinally extending port varying in transverse area.

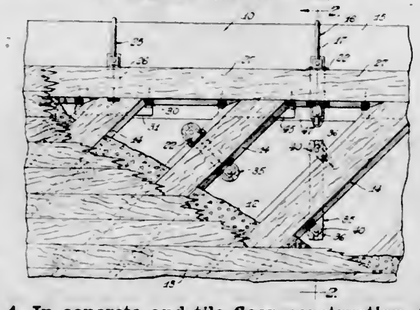
1,944,786
PAPER WIRE ROPE CENTER
Milo C. Dodge, Auburn, N. Y., assignor to Columbian Rope Company, Auburn, N. Y., a corporation of New York
Application December 4, 1931. Serial No. 579,020
1 Claim. (Cl. 117—59)

A wire rope center composed essentially of a plurality of paper units, one of said units constituting a covering for the remaining units, said remaining units being individually twisted in one direction and said covering unit being spirally



wrapped around said remaining units in the opposite direction and constituting a tubular casing for said enclosed units.

1,944,787
BUILDING CONSTRUCTION
Henry Dusablon, Chicago, Ill.
Application December 7, 1932. Serial No. 646,169
4 Claims. (Cl. 72—101)



4. In concrete and tile floor construction, the combination of sleepers, tile, and devices for adjustably anchoring the sleepers to the tile, each of said devices including a sleeper rest bar having slots formed therein, a pair of anchor bolts having threaded stems extended through the top wall of the tile and through said slots and having angled end portions extended under the top wall of the tile, and clips attached to the sleepers having threaded openings formed therein for the reception of said stems.

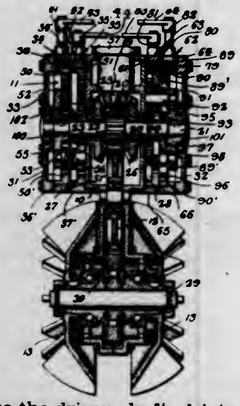
1,944,788
FERTILIZER
Frederick William Genz, Richmond, Va., assignor to Virginia-Carolina Chemical Corp., Richmond, Va., a corporation of Virginia
No Drawing. Application November 30, 1931 Serial No. 578,193
4 Claims. (Cl. 71—6)

1. Process for manufacturing homogeneous cellular fertilizer comprising treating tobacco stems impregnated with acid or basic constituent of plant nutrient salts and treating the thus impregnated tobacco stems with complementary plant nutrient salts-forming substances so as to form plant nutrient salts in situ in the cellular interstices of said stems, whereby through the mechanical and chemical action of the salts-forming reaction, a part at least of the tobacco stems is disintegrated into a colloidal state.

1,944,789
GEARING
Benjamin F. Gravely, Dunbar, W. Va.
Application January 13, 1932. Serial No. 586,392
4 Claims. (Cl. 74—34)

1. A change speed gearing including a plurality of frame members secured together in alinement and each comprising a skeleton having an

open upper portion and an open ring portion, differently sized gear elements loosely supported in said ring portions, a driven shaft extending through said gear elements, a drive shaft in driv-

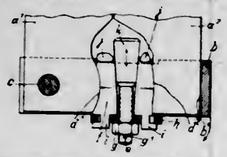


ing relation to the driven shaft, driving gears between the said driven shaft and said drive shaft, and means for selectively coupling said driving gears with said gear elements and said driven shaft whereby to produce different gear speeds.

1,944,790
JIGGER CONVEYER

Heinrich Grube, Bochum, Germany, assignor to Gebrueder Eickhoff, Maschinenfabrik und Eisengiesserei, Bochum, Germany

Application April 13, 1933, Serial No. 666,041, and in Germany April 23, 1932
4 Claims. (Cl. 198—220)

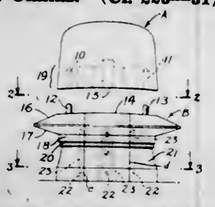


1. An arrangement for connecting the sections of a jigger conveyer comprising a yoke which is pivotable over transverse beams secured to the conveyer sections and is adapted to be clamped by means of a spreader engaging between the transverse beams, characterized by packing members movable in the longitudinal direction of the yoke and inserted between the spreader and the transverse beams.

1,944,791
HAT CONSTRUCTION AND METHOD AND APPARATUS FOR MAKING THE SAME

Alfred E. Hodshon, Bethel, Conn.

Application March 25, 1933. Serial No. 662,654
14 Claims. (Cl. 223—31)

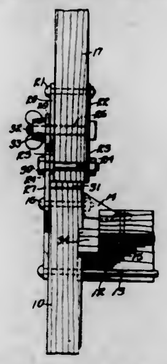


1. The herein described art of hat manufacture which comprises forming a hat bat, interfelting the fibers thereof to shrink the crown portion of the bat onto a scoped crown-block and shaping the band portion of the crown to give it the desired scope, working the fibers of the remaining portion of the bat laterally along the upper scoped surface of a scoped brim-mold and then working and interfelting the fibers about the edge of the brim-mold and working and interfelting the fibers to cause the still remaining portion of the hat bat to be shrunk and felted against the inwardly extending under face of the brim-mold, thereby to form a molded brim edge, removing the hat body from the crown-block and brim-mold, turning the innermost peripheral portions of the under-brim thus formed into the crown of the hat and working the fibers at the region of the turn to mold the inwardly turned portion in place and to give said inwardly turned portion a scope substantially the same as that of said band portion of the crown, and securing the inwardly turned portion to the crown of the hat.

1,944,792
LADDER

Eli M. House, Tampa, Fla.

Application May 4, 1933. Serial No. 669,417
2 Claims. (Cl. 228—23)



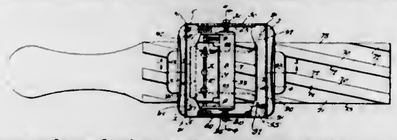
1. A ladder comprising upper and lower sections formed of side rails and cross members spaced apart to serve as steps, plates fixed to the sides of the lower ends of said upper section provided with rearwardly extending flanges, plates fixed to the upper ends of said lower section overlapping said first named plates being provided with rearwardly extending flanges, means extending through said flanges to hold said sections hinged together whereupon moving said sections to extended position the lower ends of the side rails of the upper section bear directly on the upper ends of the side rails of the lower section and the plates adjacent the overlapping plates serve to offset said upper side rails inwardly with respect to the lower side rails to wedge said sections firmly together, and means extending through said plates and the side rails to lock said sections in extended position as a straight ladder, substantially as set forth.

1,944,793
STROPPING DEVICE

Frederick J. Kalteyer, Philadelphia, Pa.

Application July 1, 1931. Serial No. 548,225
20 Claims. (Cl. 51—153)

1. A stropping device for double-edged razor blades, comprising a carriage adapted for reciprocatory movement relative to a stropping surface, a frame pivotally mounted in said carriage, a blade holder rotatably mounted in said frame, friction means carried by the frame and riding the stropping surface for rocking the frame relative to the carriage, resilient means operatively connecting the frame to the carriage for maintaining constant predetermined uniform pressure of the friction means on the strop-

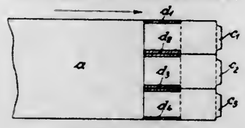


ping surface during reciprocation of the carriage, and a stop adapted to engage the blade at one side of the pivot of the blade holder during rocking of the frame to turn the blade and blade holder in the frame to apply one edge of the blade to the stropping surface under constant uniform pressure.

1,944,794
METHOD FOR THE CONTINUOUS PRODUCTION OF ENVELOPES, ETC.

Friedrich Klinger, Hamburg, Germany

Application July 16, 1932, Serial No. 622,961, and in Germany August 25, 1930
5 Claims. (Cl. 93—63)

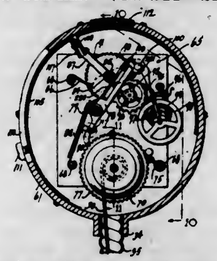


1. The method of producing envelopes, bags and the like from a continuous band of material such as paper which includes the steps of forming from the supply band a sheet having a width twice that of the envelope, applying adhesive to said sheet, folding said sheet substantially centrally and longitudinally corrugating the portion of said folded sheet which carries the adhesive.

1,944,795
PARACHUTE RIP CORD APPARATUS

Harvey Emmite Lafayette, Waukegan, Ill., assignor to Irving Air Chute Company, Inc., Buffalo, N. Y., a corporation

Application May 1, 1931. Serial No. 534,371
2 Claims. (Cl. 244—21)

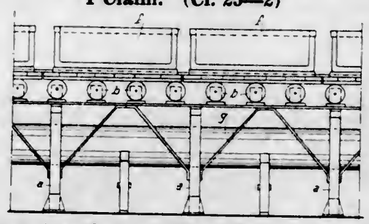


2. In an automatic rip cord pulling device the combination of a flexible rip cord, a drum for the winding of the rip cord thereon, a spring normally rotating the drum in one direction, a detent member normally restraining the rotation of said drum in the direction as urged by said spring, means for the emergency operation of said detent member to release said drum, and means for the selective tripping of said detent after a delayed interval.

1,944,796
APPARATUS FOR PREPARING CERAMIC ARTICLES

Willy Lengersdorff and Max Lengersdorff, Bunzlau, Germany

Application May 31, 1929, Serial No. 367,450, and in Germany February 9, 1928
1 Claim. (Cl. 25—2)



Apparatus for continuously manufacturing ceramic articles, comprising a work table including roller members, forming a continuous path having supporting boards for the molded articles, which path is adapted to convey the articles during the whole process from the moulding to the entry into the oven, a heating means below the entry path adapted to heat the articles on the supporting boards during the whole process, lateral guides for the supporting boards on the path, and removable hoods adapted for the continuous control of the articles to be manufactured.

1,944,797
TOOTHBRUSH

James Robert McElwain, Kenosha, Wis.

Application May 3, 1933. Serial No. 669,235
3 Claims. (Cl. 15—176)

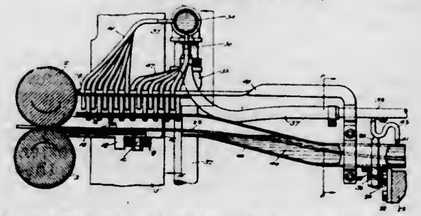


1. A toothbrush comprising a handle, a holder on the handle and having a chamber opening outwardly through one end of the holder and one side face of said holder, and providing opposite resilient walls having portions thereof concaved and portions inclined, a refill body having portions of opposite walls convexed and other portions tapered to engage with the correspondingly shaped portions of the side walls of the holder when positioned in the chamber, and tufts of bristles carried by the body.

1,944,798
MEANS FOR QUENCHING STEELS

William Mellor, Philadelphia, Pa., assignor to Henry Disston and Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application July 18, 1931. Serial No. 551,780
6 Claims. (Cl. 266—3)



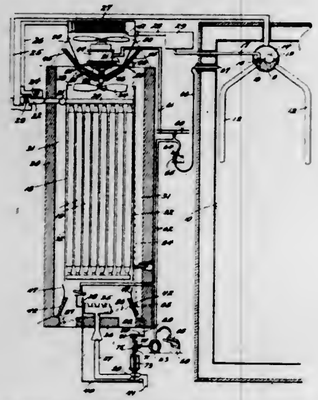
1. Apparatus for treating steel to maintain the austenitic structure thereof after hot working,

comprising means for subjecting said steel to a drastic liquid quench simultaneously with its emergence from the hot working apparatus to cool it rapidly, said means comprising a guide adjacent the hot working apparatus over which said steel passes, a quenching liquid jet adapted to play on said steel, and a passage containing running quenching liquid through which said steel passes.

1,944,799
REFRIGERATION

Ernest B. Miller, Baltimore, Md., assignor, by mesne assignments, to Chester F. Hackley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland

Application March 14, 1929. Serial No. 347,032
42 Claims. (Cl. 62—5)



1. Refrigeration apparatus comprising a condenser, an adsorber, a heater for said adsorber and single means to circulate heat from said heater over said adsorber and air independently over said condenser.

1,944,800
ROOFING GRANULE

Ernest H. Nichols, Hagerstown, Md.

No Drawing. Application December 3, 1930
Serial No. 499,856
4 Claims. (Cl. 91—70)

1. That method of coloring granules of raw shale which consists in heating the granules, simultaneously treating the hot granules with aqueous solutions of ferrous sulphate and borax whereby to cause evaporation of at least part of the water, and reheating the granules.

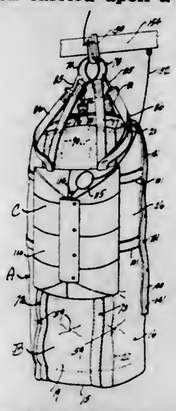
1,944,801
PARACHUTE APPARATUS

Erwin House Nichols, Brooks Field, Tex., assignor to Irving Air Chute Company, Inc., Buffalo, N. Y., a corporation

Application November 7, 1929. Serial No. 405,389
31 Claims. (Cl. 244—21)

2. In apparatus for dropping articles by means of parachutes, the combination of a flexible container having an interiorly padded chamber and releasable means to completely enclose the same, reinforcement webbing secured exteriorly about the container having suspension means extending therefrom, and parachute apparatus for the container having a connection with said suspension means.

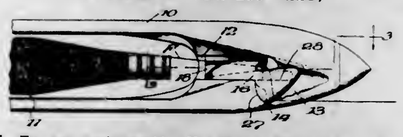
31. In apparatus for dropping articles by means of parachutes the combination of a carrier casing of elongated construction and flexible padding material having an end opening therein, and a parachute pack carried upon a side of the container between its ends including a parachute canopy having operative connection with the container, and rip cord means to insure a lateral release of the canopy from the carrier casing.



1,944,802
AUTOMATICALLY THREADING LOOM SHUTTLE

David Leland Norris, Sr., Greenville, S. C., assignor of one-fourth to David Leland Norris, Jr., one-fourth to Robert McKim Norris, one-fourth to Andrew Middleton Norris, and one-fourth to Arthur Chambers, all of Greenville, S. C.

Application August 4, 1933. Serial No. 683,697
5 Claims. (Cl. 139—223)



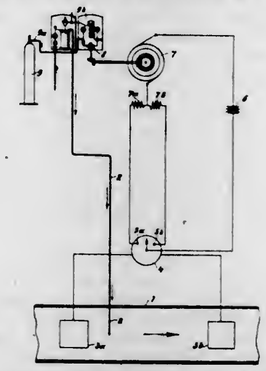
1. In an automatically threading loom shuttle having a thread passage, and a side delivery eye, a threading block positioned in said passage and having a bridge, an intake channel leading thereto and having a lateral entrance slot, a recess alined with the side delivery eye, a horn tapering toward said recess and an upper, ovoid thread-shedding surface, the rear portion of which slopes downwardly and rearwardly toward the entrance slot of said intake channel and the forward portion of which slopes toward said horn, whereby a loop formed in event of double threading will be shed automatically by tension on the thread.

1,944,803
WATER TREATMENT

Georg Ornstein, Berlin, Germany

Application October 27, 1930, Serial No. 491,585, and in Germany February 2, 1928
11 Claims. (Cl. 210—28)

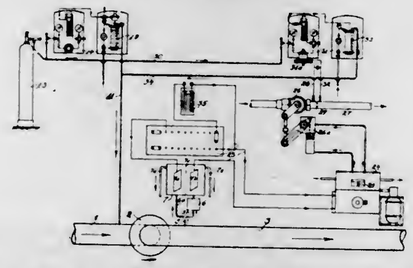
1. A device for indicating and regulating the concentration of water-purifying agents in a body of liquid having a portion thereof treated with such agents, comprising an electrode immersed in an untreated portion of said liquid, a second electrode immersed in a treated portion thereof, said electrodes constituting the electropositive and electronegative poles of an electrolytic cell, the current from which varies in accordance with the concentration of water purifying agents present in the treated portion of said liquid, and means controlled by the difference of potential across said electrodes for indicating and regulating the concentration of water-purifying agents in said treated portion of said liquid.



1,944,804
METHOD AND DEVICE FOR PURIFYING AQUEOUS LIQUIDS BY TREATMENT WITH CHLORINE

Georg Ornstein, Berlin, Germany

Application January 13, 1933, Serial No. 651,613, and in Germany January 13, 1932
8 Claims. (Cl. 210—28)



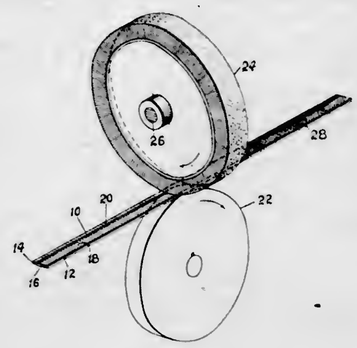
1. A process for purifying aqueous liquids by treatment with chlorine, which consists in adding an excess of chlorine to a flowing stream of the aqueous liquid to be treated, contacting a stream of the liquid containing the chlorine with one electrode of a galvanic element, dechlorinating another stream of the liquid containing the chlorine and contacting it after dechlorination with the other electrode of a galvanic element and regulating the addition of chlorine to the flowing stream of liquid according to the difference of potential produced across said electrodes.

1,944,805
WELTING

Harold A. Osborne, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application January 13, 1932. Serial No. 586,387
4 Claims. (Cl. 36—78)

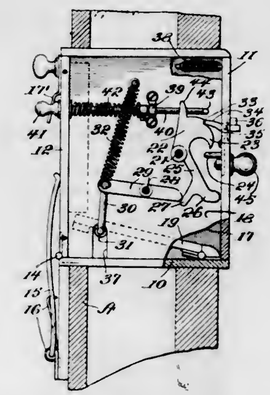
3. As an article of manufacture, narrow lightweight leather welting for use in making welted shoes having cement-attached outsoles, said welting having its sole engaging face buffed whereby its fibres are raised and separated so as to provide a roughened surface for the reception of cement.



1,944,806
BOTTLE OR CONTAINER RECEIVER

Allen F. Pforsich, Glassport, Pa., assignor of one-half to Barney J. Morrow, Glassport, Pa.

Application February 21, 1933. Serial No. 657,901
5 Claims. (Cl. 232—41)

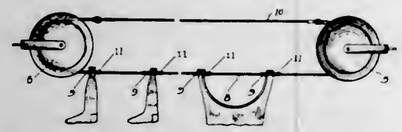


1. A container receiver comprising a box-like body for mounting in a vertical wall of a building and having outside and inside swinging doors, a container platform hinged for vertical swinging movement within the lower portion of said body, the outside door being horizontally swung and the inside door being vertically swung, a keeper at the inner face of the outside door, a pivoted gravity acting dog mounted within the body and engageable with the keeper, a kicking toe on said dog and engageable by the outside door, an angular heel extended from the toe, a rocking trip lever pivoted in said body and operating in the path of the heel, a stirrup connected with the platform and with the rocking trip lever, and tensioning means operative upon the trip lever to engage the same with the heel when the platform is free of a container, whereby the dog will be released from the keeper.

1,944,807
PROCESS FOR PRODUCING GRINDING BODIES
Theodor Pohl, Frankfort-on-the-Main, and Josef Schneider, Oberursel, Germany
No Drawing. Application September 1, 1933, Serial No. 687,910, and in Germany September 6, 1932
15 Claims. (Cl. 51—278)

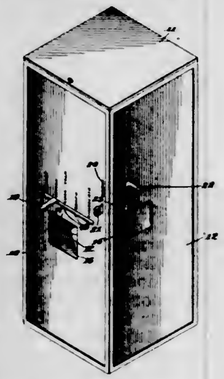
4. A process for producing grinding bodies, consisting in producing from grinding material and matrices solid products, in disintegrating these products to obtain smaller shaped parts containing each a plurality of grinding grains, and in building up a grinding body from these shaped parts.

1,944,808
CLOTHESLINE ATTACHMENT
Charles H. Reske, San Francisco, Calif.
Application April 11, 1933. Serial No. 665,574
1 Claim. (Cl. 68—3)



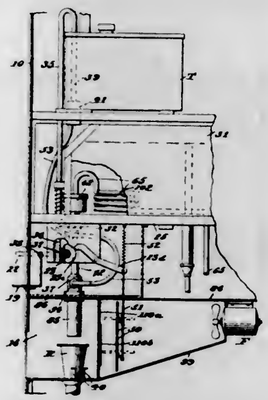
The combination with a pair of pulley wheels, of an endless clothes line reeved thereover, said line embodying in its construction a single strand portion and a double strand portion, secured one to the other, and means carried by said double strand portion for retaining therebetween articles to be hung, said means including a fixed element and a sliding element.

1,944,809
BEVERAGE VENDING MACHINE
Ralph L. Rogers, Knoxville, Tenn., assignor to The General Automatic Merchandising Corporation, a corporation of Delaware
Application January 27, 1930. Serial No. 423,842
30 Claims. (Cl. 225—21)



1. A beverage mixing and dispensing machine, comprising a plurality of syrup containers each having independent measuring and dispensing means including a valved conduit, a mixing liquid measuring and delivering device including a conduit, means providing a mixing chamber, said conduits opening into said chamber and all of said valves being located adjacent said chamber, a single operating shaft, means carried by and rocked with said shaft and slidable therealong into operative engagement with a selected syrup measuring and dispensing means to effect the delivery of a predetermined quantity of the selected syrup when the shaft is rocked, means positively connected to said shaft to actuate said liquid measuring and delivering means for the delivery of a predetermined quantity of the mixed liquid into said chamber so that the delivery of the mixing liquid continues after the completed delivery of said syrup whereby said mixing liquid may flush and rinse said chamber and said syrup conduits up to said valve and therefore prevent mingling of the syrups of successive dispensing operations.

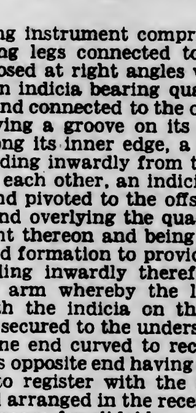
1,944,810
SANITARY ATTACHMENT FOR BEVERAGE VENDING MACHINES
Ralph L. Rogers, Knoxville, Tenn., assignor to The General Automatic Merchandising Corporation, a corporation of Delaware
Application April 24, 1930. Serial No. 447,057
13 Claims. (Cl. 225—21)



1. A device of the class described comprising the combination with a casing, a receptacle support on said casing, and means for dispensing a liquid beverage and including a spout positioned above the support whereby it is adapted to discharge into a receptacle on said support, of a fan located within the casing for directing a current of air around said spout to prevent the alighting of insects thereon, and air conduit means in said casing for guiding the air current toward said spout.

1,944,811
BEVERAGE DISPENSING MACHINE
Ralph La Fayette Rogers, Jr., Knoxville, Tenn., assignor to The General Automatic Merchandising Corporation, Knoxville, Tenn., a corporation of Tennessee
Application December 30, 1930
Serial No. 505,623
15 Claims. (Cl. 225—21)

1. A device of the class described, including a syrup tank, means for providing a measuring chamber in communication with said syrup tank to receive syrup by gravity therefrom, a piston movable in said cylinder, a duct extending from said piston to a point above the liquid level in



said tank, and a check valve to prevent the upward flow of syrup in said duct.

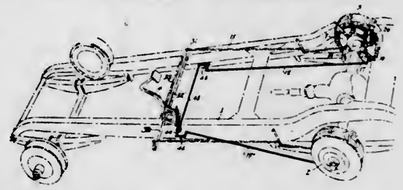
1,944,812
PROTRACTOR
Edward W. Sandell, Los Angeles, Calif.
Application April 29, 1932. Serial No. 608,291
1 Claim. (Cl. 33—93)

A measuring instrument comprising a pair of indicia bearing legs connected together at one end and disposed at right angles with respect to each other, an indicia bearing quadrant extending between and connected to the other ends, said quadrant having a groove on its underside and extending along its inner edge, a rounded offset portion extending inwardly from the juncture of the legs with each other, an indicia bearing arm having one end pivoted to the offset portion and its opposite end overlying the quadrant for slidable movement thereon and being reduced at its sides in curved formation to provide a point with a line extending inwardly therefrom and centrally of the arm whereby the line and point cooperate with the indicia on the quadrant, a backing strip secured to the underside of the arm and having one end curved to receive the offset portion and its opposite end having a recess therein arranged to register with the groove, a bolt having a head arranged in the recess and extending into the groove for slidable movement in the latter, and means on the bolt for cooperation with the head for securing the arm in adjusted positions with respect to the quadrant.

1,944,813
MANUFACTURE OF PAINTS, ENAMELS, ETC.
Fritz Schmid, Oberhausen, Germany
No Drawing. Application October 24, 1931, Serial No. 570,965, and in Germany October 9, 1930
11 Claims. (Cl. 134—56)

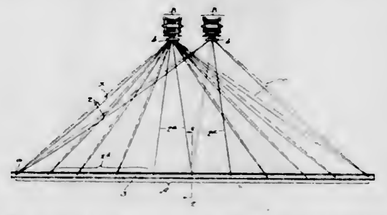
2. A process for the manufacture of pure drying oils poor in free acid, which comprises treating oils having a relatively high content of free acids with basic inorganic zinc-compounds, at normal or room temperatures, and separating the oil from the residue.

1,944,814
AUTOMATIC BRAKE TORQUE EQUALIZER
Ferdinand L. Schorno, Delawanna, N. J.
Application October 1, 1932. Serial No. 635,823
8 Claims. (Cl. 188—2)



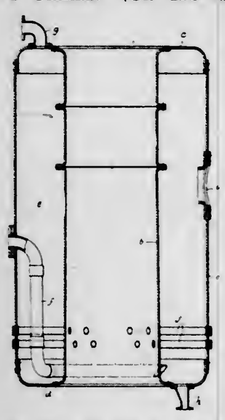
1. In an automatic brake torque equalizer in combination with a band braking structure of automobiles, of means for varying the action of said braking structure to secure the same torque on the respective brake structures, said means including a pair of rotating rings carrying the brake bands of the respective brake structures, and a plurality of rods and lever mechanisms connecting said rings so that the movement of one ring will be transmitted to the other while the braking structure is functioning and thereby cause the rotary movement of one brake structure to be communicated to the other brake structure for causing the same torque on both brake structures.

1,944,815
JACQUARD MECHANISM
Adam F. Schuler, Philadelphia, Pa.
Application July 29, 1932. Serial No. 626,154
4 Claims. (Cl. 96—20)



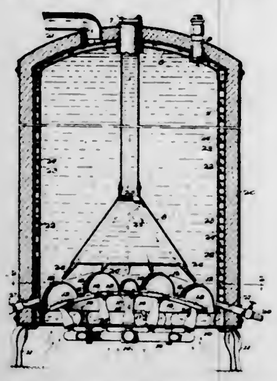
1. The combination of a pair of horizontally vertically spaced substantially parallel grids, a plurality of individual jacks in horizontal plane below said grids, a plurality of control cords connected to the upper grid and dropping vertically through the lower grid from which said cords radiate to and connect with said jacks respectively, means for raising the upper grid to pull said cords for operating said jacks, and means for lowering said lower grid simultaneously with the raising of the upper grid for removing slack from the control cords to effect operation of the jacks in unison.

1,944,816
REFUSE DESTRUCTOR FURNACE
Scott Symington, London, England, assignor to Woodall-Duckham (1920) Limited
Application September 10, 1932, Serial No. 632,620, and in Great Britain August 25, 1932
4 Claims. (Cl. 122—2)



1. In a refuse destructor shaft furnace the combination of a metal shell, a second metal shell within, spaced from and coaxial with the first, means forming a water-tight closure to the space between the shells, means for admitting water to the said space and means for allowing escape of water or steam therefrom, the said second shell having an internal diameter which increases progressively downwards.

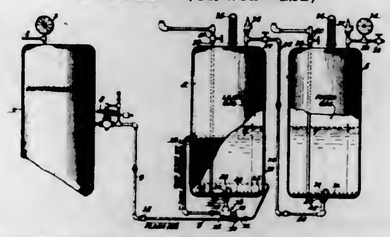
1,944,817
WATER HEATER
William S. Thomas, Montoursville, Pa.
Application August 12, 1933. Serial No. 684,904
8 Claims. (Cl. 122—19)



1. In a water heater, the combination of a tank, a bottom for said tank having a plurality of hollow domes extending upwardly therefrom into the tank, a burner located adjacent each of said domes and so constructed and arranged as to direct a flame against the lower concave surface thereof, the upper surface of each of said domes extending above the normal muck line within the tank, means for supplying relatively cold water to said tank and for directing a scouring current of water over the upper surface of each of said domes each time that water is supplied to said tank, and means for drawing hot water therefrom.

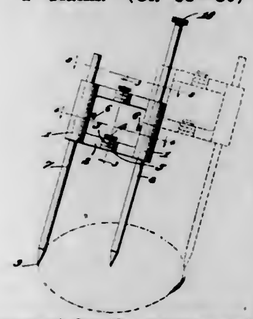
7. In a water heater of the class described, a tank, means for heating the water in said tank, a pipe for supplying relatively cold water to said tank, a pipe for drawing hot water therefrom, a tempering chamber centrally disposed within said tank and connected with said supply pipe, and means including a valve of low heat conductivity interposed between said tempering chamber and supply pipe for inhibiting the transfer of heat from the water in said tempering chamber to the water in said supply pipe.

1,944,818
APPARATUS FOR MAKING GAS
John Whitehart, Zanesville, Ohio
Application September 17, 1932
Serial No. 633,663
3 Claims. (Cl. 261—121)



1. Gas making apparatus comprising a tank containing a volume of liquid fuel, a mixing device including a fine tube having one end communicating with the tank to receive fuel, passage means affording communication with the interior of the tank independently of said tube, a partition in said passage means having the tube connected therewith to discharge the fuel to one side of the passage means, a coil having one end connected with the passage means and being in communication through said passage means with the interior of the tank, and a fitting through which compressed air is adapted to be discharged into the coil, said fitting having one branch connected with the remaining end of the coil and another branch connected to receive the discharged fuel from said fine tube.

1,944,819
DIVIDER
Charles W. White, West Frankfort, Ill.
Application March 24, 1930, Serial No. 438,585
Renewed October 4, 1933
1 Claim. (Cl. 33—30)



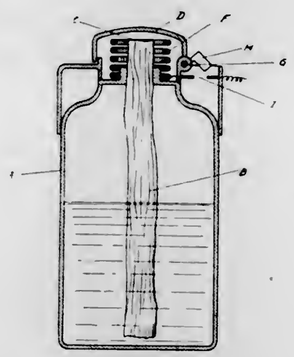
An instrument for the purpose set forth, comprising a pair of socket members having their ends provided with rightangle extensions whose extremities are rounded for interfitting engagement and which extremities are connected by headed bolts, leg members received through the respective sockets and each having one of its ends pointed, one of said leg members being of a greater length than the other and having its non-pointed end provided with a knurled head, and bolt members screwed through the sockets for contacting the legs and holding both of said legs adjusted in the sockets or one of said bolts designed to bind one leg in its socket and the second bolt when partly unscrewed permitting the other leg to slide through its socket.

CARNEGIE LIBRARY OF ATLANTA

1,944,820
CEMENT ADMIXTURE
Aldo Beghelli, Lyon, France
No Drawing. Application April 19, 1932
Serial No. 606,288
4 Claims. (Cl. 106—27)

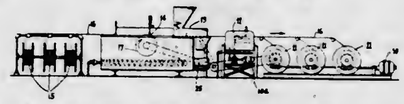
1. A composition adapted to be mixed with unkneaded Portland cement in order to avoid the aging of molded cement materials or objects after their impregnation with molten sulphur, said composition comprising soluble silica, alumina, ferric oxide and titanic acid.

1,944,821
PERFUME DIFFUSER
Léon Marcel Blaise, Paris, France
Application December 31, 1931, Serial No. 584,307, and in France January 19, 1931
3 Claims. (Cl. 167—3)



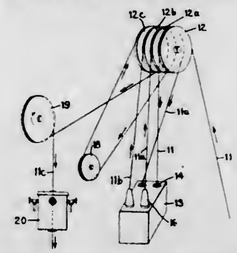
2. A perfume diffuser of the type described comprising in combination, a vessel, a wick dipping in said vessel, an electric resistance surrounding the upper part of said wick and normally operative throughout the period of diffusion, whereby said upper part of the wick may be maintained at a temperature independent of the ambient temperature, a circuit for said resistance provided with a gap, a stopper hinged to the upper part of said vessel and adapted to prevent diffusion when in closed position, and a contact member connected to said stopper adapted to fill said gap when the stopper is in the open position, whereby the opening and the closing of the stopper automatically control the operation of the apparatus.

1,944,822
METHOD AND MACHINE FOR COATING CABLES
William W. Church, Stratford, Conn., and William C. Robinson, Sewickley, Pa., assignors to National Electric Products Corporation, New York, N. Y., a corporation of Delaware
Application July 27, 1929. Serial No. 381,625
15 Claims. (Cl. 91—70)



1. A machine for coating cable with multiple coatings and for preventing excessive remelting of underlying materials on the cable during the application of the coatings thereto, said machine comprising a pair of tanks each containing a different heated and molten coating material, means for traversing a cable to be coated first over one tank and then over the other, a rotating pick-up disk disposed in the first of the aforesaid tanks and extending in proximity to the cable traversing thereover, means for removing coating material from the pick-up disk and directing the same upon the cable, said pick-up disk and said means serving to direct regulated quantities of coating material upon the cable and to prevent the remelting of underlying material upon the cable attendant from the excessive application of molten material to the cable and attendant from the heat of the molten material in the tank, means for pumping up molten material from the second of the aforementioned tanks, and means including nozzles receiving said pumped molten material and adapted to spray the same upon the previously coated cable to apply a thin coating of the second molten coating material to the coated cable and to minimize remelting of the first mentioned coating during such application.

1,944,823
METHOD AND MEANS FOR COLORING AND COATING WIRES AND THE LIKE
Neil C. Lamont, Edgeworth, Pa., assignor to National Electric Products Corporation, New York, N. Y., a corporation of Delaware
Application October 28, 1930. Serial No. 491,706
12 Claims. (Cl. 91—68)



1. A machine for coloring insulated wire and applying a super-coating thereto comprising wire handling means for continuously advancing the wire, means for applying a color coating to the wire while it is in motion, and means for subsequently directing a mist of molten wax-like material upon the wire also while the wire is in motion and for avoiding excess heating of the wire during said wax application, so as to prevent impairment of the color coating, said wire handling means being adapted to advance the wire through the color coating means, from the color coating means through a drying space to

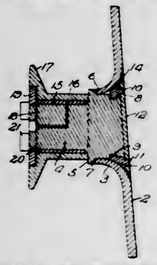
the mist-directing means, and through the mist-directing means, in continuous succession and with maintained continuous motion of the same length of wire through the color coating means, the drying space and through the mist-directing means.

1,944,824

TRUNNION STRUCTURE FOR LADLES

Walter de Fries, Youngstown, Ohio, assignor to The William B. Pollock Company, Youngstown, Ohio, a corporation of Ohio

Application November 12, 1931
Serial No. 574,506
12 Claims. (Cl. 22—82)



1. A ladle shell having an integral outwardly projecting perforated portion providing a recess, a trunnion seated therein, and a plate cooperating with the inner end of the trunnion.

1,944,825

ELECTRIC INCANDESCENT LAMP

Theodore Millner, Ujpest, by Budapest, Hungary, assignor, by mesne assignments, to General Electric Company, a corporation of New York

No Drawing. Application December 21, 1929, Serial No. 415,876, and in Hungary December 18, 1928
3 Claims. (Cl. 176—16)

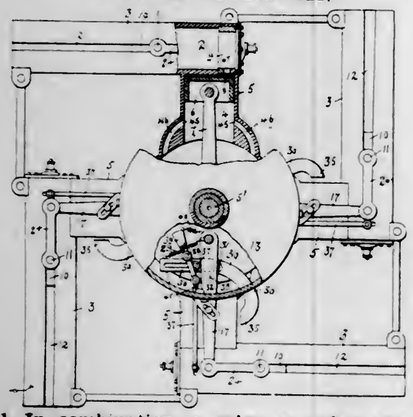
1. An electric incandescent lamp containing a fluoride of an element having an atomic weight higher than 11, said fluoride being gaseous at room temperature.

1,944,826

VALVE ACTUATING MECHANISM

Oleander L. Olsen, Fairview, Mont.

Original application September 2, 1925, Serial No. 133,274. Divided and this application April 20, 1929. Serial No. 356,770
11 Claims. (Cl. 123—114)



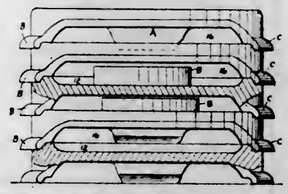
1. In combination, a valve, a rocker arm, a lever pivotally mounted adjacent the rocker arm, a link connecting the lever and valve, oscillating contrifugal means for varying the link in its relation to the lever.

1,944,827

MEANS FOR STACKING LOADED BUTTER CUBE PLATES

Jack Osherman and Charles H. Marsh, Los Angeles, Calif.; said Osherman assignor to Carl F. Lehnkering, Los Angeles, Calif.

Application October 1, 1932. Serial No. 635,756
5 Claims. (Cl. 65—15)



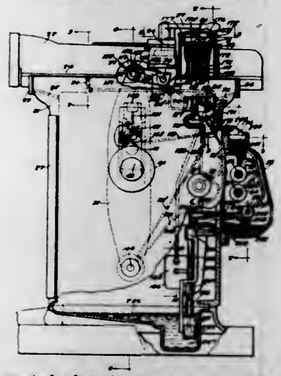
4. A device as described consisting of a container having a flat disk formed upon either side of the disk with a dished-out portion encircled by an annular rim, and a series of circumferentially spaced apart outturned integral lugs providing legs for the container, said legs being rebated upon their inner sides for the purpose of seating firmly upon either rim of a similar container to be mounted in nested relation upon the latter.

1,944,828

LUBRICATING MEANS FOR METAL SHAPING MACHINES

Albert E. Robinson, Cincinnati, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio

Application January 25, 1932. Serial No. 588,650
4 Claims. (Cl. 184—6)



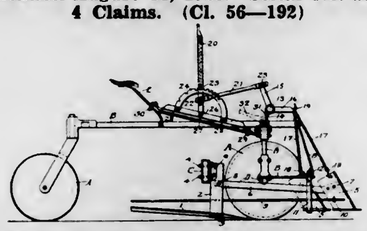
1. In a metal shaping machine, the combination of a frame, a ram reciprocable thereon, a lever arm, a crank block slidable thereon, a crank pin for said crank block, means for operating the latter, a link between the upper end of said arm and said ram, said link provided with a fork, bearings on the tines of said fork, a bearing at the upper end of said arm, an articulating pin in said bearings, said link having a lubricant cavity and provided with a lubricant passage between said cavity and said pin and a lubricant passage connecting with said cavity and bypassing the journal faces of said bearings and delivering lubricant to said crank pin and said crank block.

1,944,829

BEAN HARVESTER

Grafton H. Self, Twin Falls, Idaho, assignor of one-half to Andrew J. Bockwitz, Twin Falls, Idaho

Application August 14, 1928. Serial No. 299,470
4 Claims. (Cl. 56—192)



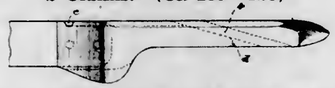
1. A bean harvester, composed of a cultivator or the like that has supporting wheels for its frames and tool bars, said tool bars being equipped with one master hand lever and means for raising, lowering, and securing same in selective positions, in combination with vertical supports and rearwardly converging cutting members, each upper end of said supports being attached to the tool bars, and the lower ends to each of the cutting members at a point intermediate their ends, vine-separating members with windrowing rods, attached to bars projecting through guiding yokes to the rear, and means for pivotally connecting the ends of said bars to the supports.

1,944,830

LOOM FOR WEAVING WITHOUT A SHUTTLE

Louis Pierre Julien Antoine Verriere, Mardore Par Pont-Trambouze, France

Application November 5, 1932, Serial No. 641,349, and in France October 31, 1931
2 Claims. (Cl. 139—123)



1. As an article of manufacture particularly adapted to be made from a metal bar of rectangular cross section and especially suitable for attachment to a relatively thin and flat strip for use in a weaving loom of the type operating without a shuttle, a needle of substantially rectangular cross section throughout the greater portion of its length, having at the rear end a downward extension at least partially of uniform width with the remainder of the needle, which extension is practically bifurcated so as to provide an open bottom groove in the longitudinal direction, while terminating at the other end in a point and rearwardly of said point being formed upon one side with an oblique slot extending upwardly in a rearward direction and at the bottom cut back a distance to form a rearward bottom notch, the upper part of the needle being formed with a centrally disposed channel extending the length of the needle rearwardly from the oblique slot.

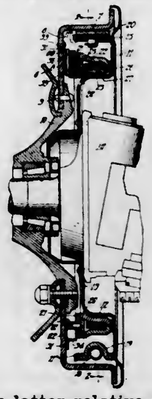
1,944,831

ELECTRIC BRAKE

John Whyte, Beloit, Wis., assignor to Warner Electric Brake Corporation, South Beloit, Ill., a corporation of Illinois

Application December 30, 1929
Serial No. 417,385
20 Claims. (Cl. 188—140)

1. In an electric brake for a vehicle wheel, a pair of annular magnetic friction elements adapted for axial gripping engagement, non-rotatable means disposed on the inner side of said wheel and supporting one of said elements against axial movement in a direction away from said wheel, means carried by said wheel and providing a surface facing inwardly therefrom, a metal ring, and means connecting said ring and said other magnetic element and permitting yielding axial



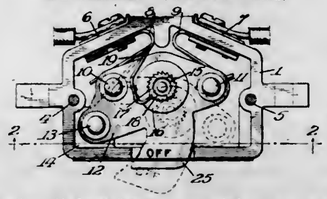
movement of the latter relative to the ring, said ring, said last mentioned element and said connecting means constituting a separately assembled unitary structure of narrow radial width adapted to be mounted on said wheel by attaching said ring to said surface, said second mentioned magnetic element being pressed yieldably against said first mentioned element when said wheel is mounted on its supporting axle.

1,944,832

CIRCUIT BREAKER

Gustav O. Wilms and Panfilo Trombetta, Milwaukee, Wis., assignors, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin

Application November 1, 1929, Serial No. 403,988
Renewed June 14, 1933
24 Claims. (Cl. 200—124)



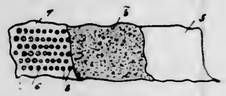
1. A circuit breaker, comprising an automatically opening electric switch having stationary contacts for connection with the circuit to be controlled, a movable contact carrier having movable contacts arranged thereon to engage said stationary contacts, an electric heater arranged upon one side of said contact carrier and connected in series with said stationary and movable contacts, a heat conductor extending through said contact carrier to conduct heat from one side to the other side thereof and having one end in intimate thermal association with said heater, and a ratchet latch arranged upon the opposite side of said contact carrier to said heater to hold said switch closed and having a part thereof retained in a fixed position upon said heat conductor by a flusible binder to keep said latch from being released until said binder is fused by heat from said heater.

1,944,833
SUPPORT
William F. Barnes, East St. Louis, Ill., assignor to St. Louis Structural Steel Co., East St. Louis, Ill., a corporation of Delaware
Application October 17, 1932. Serial No. 638,087
8 Claims. (Cl. 214—152)



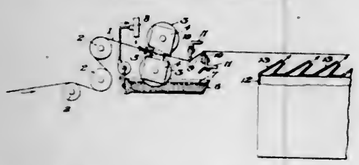
1. A method of erecting tanks comprising erecting a plurality of frames, applying cable winches thereto, encircling the tank with the cables of the winches, placing lifting beams upon which the tank is adapted to be drawn by said cable winches, cradling the tank on the lifting beams, erecting added frames on the side of the tank opposite said first-named frames, orienting the tank by means of said cable winches and subsequently lifting the tank by means of said cable winches.

1,944,834
ADHESIVE TAPE OR PLASTER
Frank I. Bennett, Jr., Highland Park, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey
Application January 16, 1932. Serial No. 587,119
1 Claim. (Cl. 154—43)



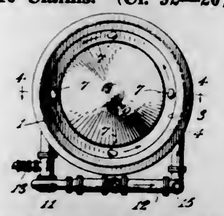
Industrial adhesive tape of high tensile strength and pliancy and capable of being rolled or stacked without promiscuous sticking, comprising at least two unified sheets of cellulosic material with an intervening mass of normally tacky adhesive bonding them together into a unified and pliant tape-like body, one of said sheets being intact and impermeable to the adhesive mass and the other sheet having relatively small perforations in close order of arrangement to provide for controlled presentation of the adhesive.

1,944,835
MAKING FILLED SURFACE PAPER
Charles F. Boyers, Hillsboro, Ohio, assignor to The Champion Coated Paper Company, Hamilton, Ohio, a corporation of Ohio
Application March 22, 1933. Serial No. 662,175
7 Claims. (Cl. 91—68)



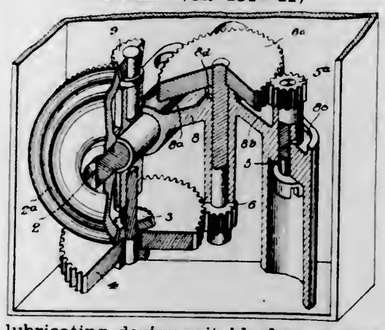
1. Process which comprises applying excess aqueous mineral coating composition to a moving web of paper and removing the excess coating composition and leaving the residual coating in the surface pores of the paper, by a smooth, rounded surface having a radius of curvature not exceeding 5/32 inch at the point where the paper leaves said surface.

1,944,836
APPARATUS FOR DISSEMINATING SOLIDS IN LIQUIDS
Edwin Cowles, Princeton, N. J., assignor to Cowles Engineering Corporation, Sewaren, N. J., a corporation of New Jersey
Application March 29, 1933. Serial No. 663,292
10 Claims. (Cl. 92—20)



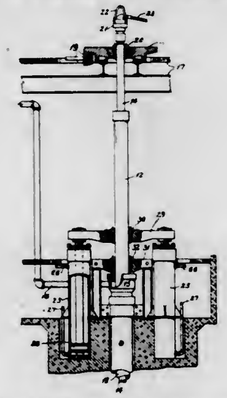
1. In an apparatus for the dissemination of solids in liquids, a container, a substantially cylindrical partition therein spaced from the container to provide a chamber therebetween, said partition having apertures therein to permit flow of liquid and disseminated solid therethrough, a bottom for said cylindrical container having a conical portion, the base of which extends into close proximity to the apertured partition, and the apex of which extends into the area encompassed by the said apertured partition, a nozzle located between said conical portion and said apertured partition, and mounted to direct a jet of liquid internally substantially tangent to said cylindrical partition, a pump, a conduit from the discharge side of said pump to said nozzle, and a conduit from the intake side of said pump to said chamber.

1,944,837
LUBRICATING DEVICE
Fernand Henrard, Brussels, Belgium, assignor to Ecremeuses Melotte, Societe Anonyme, Remicourt, Belgium
Application October 4, 1929, Serial No. 397,283, and in Belgium April 11, 1929
1 Claim. (Cl. 184—11)



A lubricating device suitable for cream separators, comprising a toothed wheel mounted on a horizontal crank-shaft of a cream separator and partially immersed in a body of lubricant, a vertical bowl-carrying shaft, a train of gears for transferring motion from said crank-shaft to said bowl-carrying shaft, certain of said gears being positioned above the level of said lubricant, a plate positioned above the level of the lubricant on which said gears are mounted, a conical pinion loosely mounted on a vertical axis above said plate and meshing with the aforementioned toothed wheel which is partially immersed in the lubricant, said conical pinion being adapted to remove the lubricant adhering to said toothed wheel during rotation and allow it to flow onto said plate and lubricate the gears mounted thereon.

1,944,838
METHOD AND APPARATUS FOR CONTROLLING THE ANGLE IN EARTH BORING
Frank F. Hill, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application March 6, 1929. Serial No. 344,653
11 Claims. (Cl. 255—32)



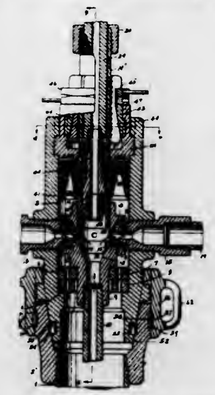
1. A method for earth boring comprising lowering a casing into a hole being bored, drilling below the lower end of the casing with a bit driven from a stem rotated within the casing, advancing the casing as the bit advances, circulating mud through the stem and between the casing and the walls of the hole to insure advancement of the casing, and directing the mud stream to prevent entrance of mud into the annular space between said casing and drill stem.

1,944,839
MANUFACTURE OF ETHYL CHLORIDE FROM PETROLEUM REFINERY GAS
Eric B. Hjerpe, Pittsburgh, and William A. Gruse, Wilkinsburg, Pa., assignors to Gulf Refining Company, Pittsburgh, Pa., a corporation of Texas
Application April 8, 1932. Serial No. 604,076
8 Claims. (Cl. 260—166)

1. The process of manufacturing ethyl chloride from petroleum refinery gas which comprises fractionating ethylene and lower boiling constituents from ethane and higher boiling constituents; contacting the lower boiling fraction in the presence of a chlorination catalyst, with hydrogen chloride in combining proportions to convert the ethylene content into ethyl chloride; subjecting the product to scrubbing with a relatively non-volatile petroleum absorbent oil; and distilling the ethyl chloride from the absorbent oil thereby separately obtaining it.

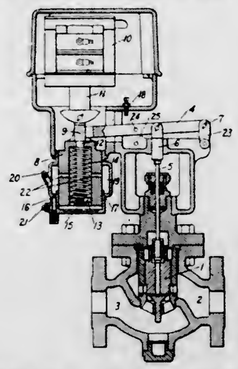
1,944,840
CONTROL HEAD FOR WELLS
Granville A. Humason, Houston, Tex., assignor of one-half to Margia Manning, Harris County, Tex.
Application February 24, 1933. Serial No. 658,394
11 Claims. (Cl. 166—15)

1. A control head for wells comprising a casing head adapted to be connected to the top of a well casing, a hanger supported in the casing head and adapted to support a permanent flow tubing and having a flow conduit leading from said tubing out through the casing head, a re-



tractor tube movable into one position to close said conduit and to form a continuation of said flow tubing and movable into another position to open said conduit.

1,944,841
OPERATING VALVES FROM ELECTRIC SOLENOIDS AND THE LIKE
James Lewis Kimball, Danvers, Mass., assignor to Ruggles-Klingemann Mfg. Co., Salem, Mass.
Application April 27, 1931. Serial No. 533,275
8 Claims. (Cl. 137—139)

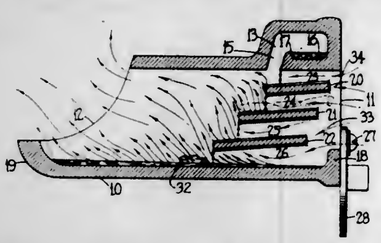


1. In combination, a valve, a dash pot operatively connected with said valve and arranged to effect operation of the valve in one direction by gravity force, a second dash pot within the first named dash pot, a solenoid for operating the valve in the opposite direction, said solenoid being mechanically connected with the last named dash pot, and a yielding spring connection between the first and second named dash pots.

1,944,842
VAPORIZING BURNER
Ottley B. Lawrence, Gaffney, S. C.
Application September 7, 1929. Serial No. 390,880
3 Claims. (Cl. 158—91)

1. A vaporizing oil burner comprising a casing containing vaporizing elements defining a vertically arranged series of vaporizing channels,

means to supply liquid fuel to the upper channels, and a damper for one end of the channels which



closes from the lowermost channel upwardly to serially cut-off channels from direct access of air.

1,944,843

CONDENSATION PRODUCTS OF ALPHA-ETHYL HEXENE ALDEHYDE AND PRIMARY AMINES AND PROCESS OF PRODUCING SAME

Harold A. Morton, Akron, Ohio

No Drawing. Application January 17, 1927
Serial No. 161,715
10 Claims. (Cl. 260—130)

2. An accelerator of vulcanization consisting of a condensation product of alpha ethyl hexene aldehyde and a primary amine.

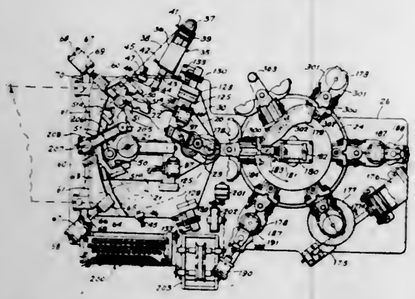
3. An accelerator of vulcanization consisting of a primary amine condensation product of alpha ethyl hexene aldehyde reacted with a member of the acetic acid series.

1,944,844

APPARATUS FOR FORMING GLASSWARE

Karl E. Peiler, West Hartford, and Algy J. Smith, Bloomfield, Conn., assignors to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Application May 19, 1931. Serial No. 538,442
18 Claims. (Cl. 49—5)



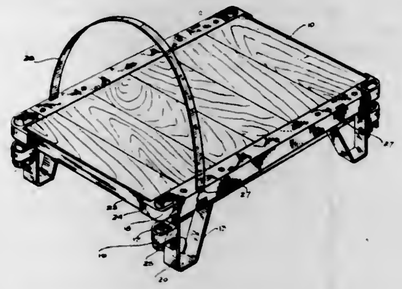
1. Apparatus for forming hollow blown glassware comprising a table, a plurality of feed molds thereon, means to oscillate said table to position said feed molds successively at a predetermined common feeding station, means to shape feed blanks in said feed molds, a form mold, means to successively transfer said feed blanks to said form mold, means to blow said feed blanks in said form mold to shape form blanks, a plurality of final blow molds, means to successively transfer said form blanks to said blow molds, and means to blow said form blanks to final form in said final blow molds.

1,944,845

SKID

Rowland Lee Rickwood, Cincinnati, Ohio, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn.

Application January 9, 1931. Serial No. 507,568
2 Claims. (Cl. 248—41)



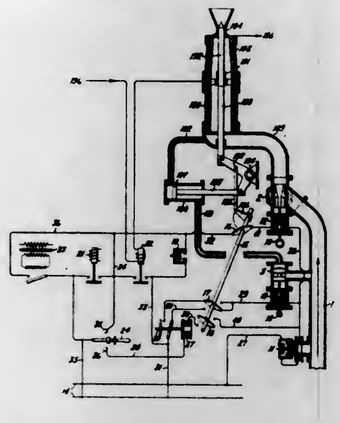
2. A portable skid, for use with a lifting truck, having in each corner thereof, a corner forming and protecting iron, a flange on said iron whereby the same may be secured to the skid, the upper surface of each of said corner forming irons being on the level with the skid surface, each of said irons being formed with a stake receiving portion and a stake limiting portion, said stake limiting portion being adapted for use as a rope securing member substantially for the purpose described.

1,944,846

CONTROL SYSTEM

Sigwart Ruppel, Frankfort-on-the-Main, Germany

Application January 10, 1930, Serial No. 419,862, and in Germany January 18, 1929
15 Claims. (Cl. 175—294)



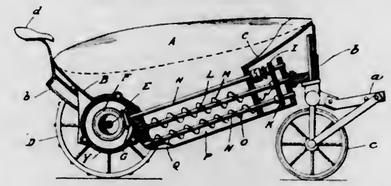
1. A control system including a switch of the gas-blast type, operating means for said switch including a disconnecting valve arranged to be supplied with gas under pressure, said disconnecting valve operable to admit a circuit interrupting blast of gas to said switch, actuating means for said valve, and means responsive to the pressure of the gas supply for controlling the operation of said actuating means.

1,944,847

MANURE DISTRIBUTOR

Anthone G. Satsky, Smithville, and Paul Lastovica, Flatonia, Tex.

Application March 5, 1932. Serial No. 598,986
1 Claim. (Cl. 275—7)



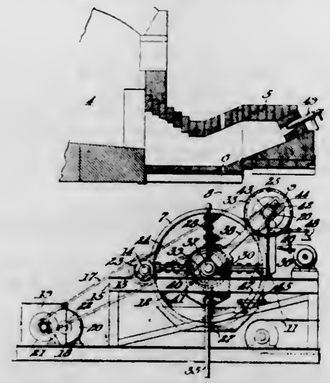
The combination in a manure spreader, of a sheet steel hopper-like container mounted on a frame having front and rear wheels, said container having sloping sides and a semi-cylindrical bottom inclined downwardly to the rear and provided with a discharge opening, two parallel shafts wound with worm blades and one above the other mounted adjacent the bottom of said container, an axle on which said rear wheels are mounted, gear means on said axle, a drive shaft geared thereto and other gear means on said drive shaft and on said parallel shafts so arranged that the parallel shafts may be rotated in opposite directions, whereby manure in said container may be pulverized and fed toward said discharge opening.

1,944,848

PROCESS OF SHAPING & COOLING HOT LIQUID DETERGENTS

Alfred W. Scheidt, Sewaren, N. J., assignor to The Electric Smelting & Aluminum Company, Cleveland, Ohio, a corporation of Ohio

Application March 7, 1930. Serial No. 434,127
5 Claims. (Cl. 18—10)



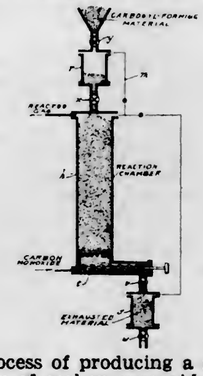
4. The method of forming a soluble, anhydrous detergent material comprising a basic silicate in which the relative proportions of the basic and silicate radicals are such that the material will be highly soluble in water, which comprises preparing the detergent material in fused condition, feeding the detergent while molten between rolls located in such proximity to each other that a thin sheet of the material will be formed, and cooling the material quickly to produce a thin, readily frangible sheet which is highly soluble in water.

1,944,849

PRODUCTION OF METAL CARBONYLS

Leo Schlecht and Max Naumann, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application March 9, 1932, Serial No. 597,752, and in Germany March 13, 1931
8 Claims. (Cl. 23—203)



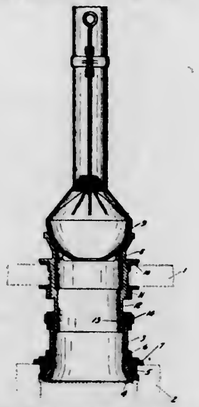
1. The process of producing a metal carbonyl by the action of carbon monoxide on a material capable of forming a metal carbonyl in a closed reaction chamber, which comprises the steps of continuously withdrawing from the reaction chamber spent material and continuously introducing fresh material into the reaction chamber at a rate corresponding to the amount of material used up and the amount of spent material withdrawn, thereby keeping the reaction chamber at all times substantially completely filled with the material.

1,944,850

SANITARY PLUMBING CONNECTION

James Simpson, Abingdon, Ill., assignor to Abingdon Sanitary Mfg. Co., Abingdon, Ill., a corporation of Illinois

Application August 24, 1932. Serial No. 630,231
1 Claim. (Cl. 4—14)



A structure of the character indicated comprising a sleeve for attachment to a toilet bowl, a sleeve to be mounted in the bottom of a flush tank in water-tight relation therewith, said second mentioned sleeve serving as a part of the flush valve and having an extension of a size to slip easily into the first mentioned sleeve, a

gasket surrounding the second mentioned sleeve adjacent to its normally lower end and a nut surrounding said extension and having an inwardly extending flange above the gasket and adapted to be drawn down on same, said nut and first mentioned sleeve being threadedly connected so that the nut can be screwed down on the sleeve to compress the gasket and form a water-tight connection between the two sleeves.

1,944,851

MANUFACTURE OF GREEN BLOOM AGENTS

Herschel G. Smith, Swarthmore, Pa., assignor to Gulf Refining Company, Pittsburgh, Pa., a corporation of Texas

No Drawing. Application February 9, 1932 Serial No. 591,929

20 Claims. (Cl. 196—1)

2. As a new product, a green bloom agent comprising a clarified hydrocarbon oil containing the oil dispersible, green bloom principle extracted from the decomposition products of an aluminum chloride sludge formed by heating aluminum chloride with petroleum oil, said agent being of brownish-green color and having the property of imparting a brilliant green bloom to oils when added thereto in small proportions.

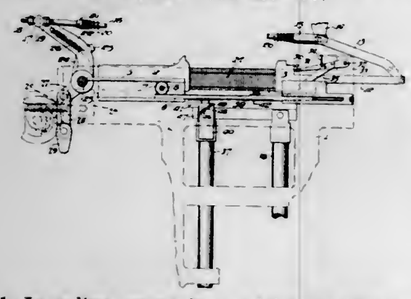
1,944,852

LINE COMPOSING AND TYPE CASTING MACHINE

Samuel E. Sperry, Hollis, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York

Application November 9, 1931. Serial No. 574,003

14 Claims. (Cl. 199—50)



1. In a line composing and type casting machine, a vise for presenting a matrix line to a slug casting mold comprising opposed jaws both movable toward and from each other to close against the ends of a matrix line, means connecting said jaws for causing them to move equal distances toward one another to center a matrix line lengthwise relatively to the mold, justifying means for expanding spacebands in the line, and means mounted on the justifying means and common to both of said jaws for locking said jaws in line-closing position and for forcing said jaws toward one another to clamp a matrix line endwise.

1,944,853

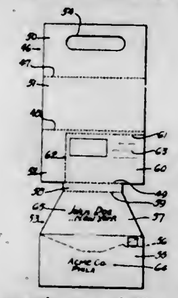
MAILING NOVELTY

Samuel L. Unger, New York, N. Y.

Application February 28, 1933. Serial No. 658,911

4 Claims. (Cl. 229—92.1)

1. A mailing device including an elongated strip having an envelope attached thereto, said strip having a plurality of spaced fold lines to afford sections so that the strip can be folded up to enclose the envelope, one end section having an opening, the envelope having an address on the flap thereof arranged to be visible



through said opening, and the envelope having on its front face the name and address of the sender, said envelope being detachable from said strip.

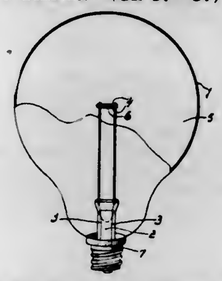
1,944,854

FLASH LIGHT LAMP

Johannes Antonius Maria van Liempt, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application January 9, 1933, Serial No. 650,919, and in the Netherlands February 4, 1932

7 Claims. (Cl. 67—87)



1. A flashlight lamp comprising a container, electrical ignition means, and material which upon initiation by said ignition means enters into a reaction giving high actinic effect, and sodium azide on said ignition means to modify the actinic effect of said reaction.

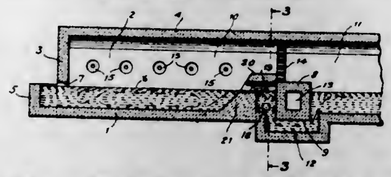
1,944,855

METHOD OF AND APPARATUS FOR MAKING GLASS

Harold A. Wadman, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Application July 28, 1932. Serial No. 625,241

11 Claims. (Cl. 13—6)



1. The method of making glass, which comprises supplying glass making materials to a bath of molten glass at a rate substantially equal to the rate of withdrawal of finished glass from the bath so as to maintain the contents of the bath

and the level of the surface thereof substantially constant, melting said materials to form glass and refining the melted glass by applying heat of combustion to the surface of the bath to provide a basic temperature lower than the maximum desired for the glass during its transition to refined and finished glass, supplying the last increment of heat necessary to bring the molten glass up to the maximum desired temperature by impressing an alternating current of electricity upon electrodes which are always completely submerged by the molten glass, and maintaining the intensity of the electric current so supplied sufficiently low that arcing between the electrodes is positively prevented.

1,944,856

GLASS RESISTANT REFRACTORY AND BATCH COMPOSITION FOR PRODUCING SUCH A REFRACTORY

Paul G. Willetts, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

No Drawing. Original application February 21, 1930, Serial No. 430,459. Divided and this application April 16, 1932. Serial No. 605,785

6 Claims. (Cl. 106—10)

1. A batch for a ceramic refractory resistant to molten glass, comprising approximately 65 parts by weight of homogeneous granules of grog containing derivatives of approximately 92.5% of a mixture of Georgia Klondike kaolin and Georgia G_1 clay and approximately 7.5% Bedford feldspar fired to a temperature of approximately 2850° F., and having substantially the same physical and chemical characteristics as the refractory to be produced, and approximately 35 parts by weight raw binding material composed of approximately 92.5% of a mixture of Georgia Klondike kaolin and Georgia G_1 clay and approximately 7.5% Bedford feldspar, both the mixture and the feldspar being substantially the same as the mixture and feldspar from which the grog is derived.

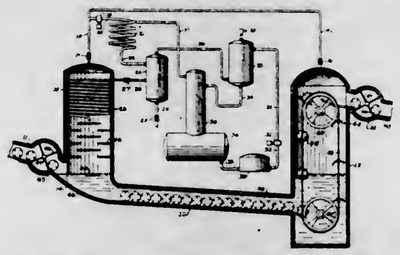
1,944,857

QUICK FREEZING PROCESS AND REFRIGERANT

Harold V. Atwell, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application June 19, 1931. Serial No. 545,541

6 Claims. (Cl. 62—104)



1. In apparatus for freezing food, a closed system comprising a container for a liquid refrigerant, means for regulating the pressure in said container whereby the refrigerant boils at about —20 to —35° C., and sealed gates for passing food into and out of said container, whereby the pressure in the container is not materially altered by the introduction of food therein or the removal of food therefrom.

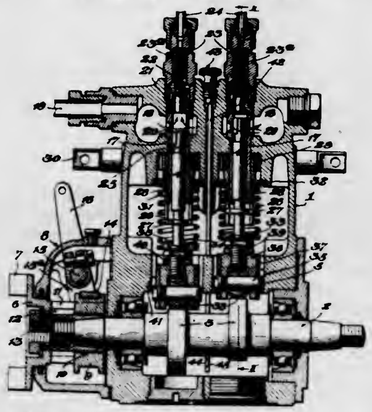
1,944,858

FUEL INJECTION PUMP

Ottmar Baur, Stuttgart, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany

Application January 17, 1930. Serial No. 421,513

12 Claims. (Cl. 123—139)



1. A fuel injection pump for internal combustion engines of the Diesel type comprising a cylinder, a piston therein, a rotary driving member, a rotary driven member, means for reciprocating the piston in constant length of stroke by rotation of the said driven member, means for varying the point in the travel of said piston at which fuel delivery from the pump ceases without varying the length of the piston stroke or the time the delivery stroke and point at which fuel delivery begin, and an angularly adjustable coupling between said driving and driven members for advancing or retarding the time at which the delivery stroke of the piston and fuel delivery by the pump begins.

1,944,859

DRY CLEANING COMPOSITION

Sidney Born, Tulsa, Okla.

No Drawing. Application September 24, 1931 Serial No. 564,966

4 Claims. (Cl. 87—5)

2. A composition useful for cleaning fabrics, clothing and the like comprising the following ingredients in approximately the indicated proportions:

	Percent
Tetrachlorethane	1
Dichloroethyl ether	3 to 5
Carbon tetrachloride	4 to 6
Stoddard solvent	90

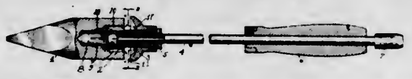
1,944,860

SOLDERING TOOL

Morris J. Cohan, Brooklyn, N. Y., assignor to Reliance Specialties Manufacturing Co., Inc., New York, N. Y., a corporation of New York

Application December 8, 1930. Serial No. 500,761

4 Claims. (Cl. 158—26)



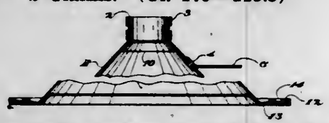
1. A soldering tool comprising a soldering head provided with a combustion chamber extending inwardly toward and adjacent the operating por-

tion of the head and provided with rearwardly discharging exhaust vents embodied in and opening from the opposite end of said head, a nipple removably secured to said soldering head and provided with a mixing chamber communicating with said combustion chamber in the soldering head, a gas supply pipe attached to said nipple for supplying gas to said mixing chamber, and a deflector adjustably mounted on said nipple positioned adjacent and shaped to extend over the discharge from the openings of said vents from said combustion chamber and adapted to throw back the flame and heat upon the soldering head thereby varying the intensity of the heat of said soldering head.

1,944,861
LOUD SPEAKER CONE

Richard R. Du Puy, St. Paul, Minn., assignor to Wright, De Coster, Inc., St. Paul, Minn., a corporation of Minnesota

Original application November 22, 1929, Serial No. 409,147. Divided and this application April 29, 1932. Serial No. 608,205
2 Claims. (Cl. 179—115.5)

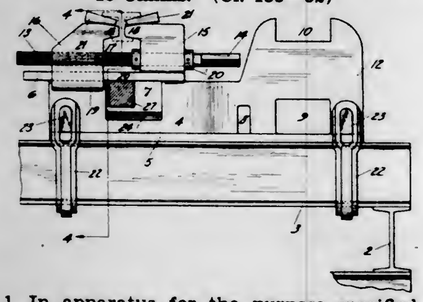


1. In a loud speaker cone of the character described, a truncated conical diaphragm, a cylindrical coil support mounted upon the truncated end of said cone to be substantially coaxial therewith and to extend outwardly therefrom, a voice coil supported by said cylindrical portion, and a skin diaphragm fixedly secured across said cylindrical element and imperforate except for a single central opening adapted to receive a fastening member for securing said skin diaphragm to a supporting element to permit limited vibratory movement of said cylindrical member and said cone with respect to said supporting element.

1,944,862
AXLE BENDING EQUIPMENT

Frank J. Fransen, Rock Island, Ill., assignor to Bee Line Manufacturing Company, Davenport, Iowa, a corporation of Iowa

Application February 2, 1931. Serial No. 512,851
13 Claims. (Cl. 153—32)

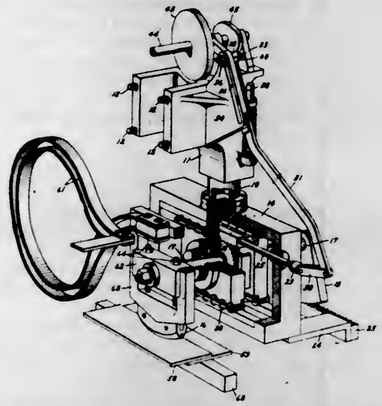


1. In apparatus for the purpose specified, a beam, a holding unit to be mounted on said beam, said holding unit having adjustable clamping means for holding an axle, screw means for drawing said clamping means together, means for securing the holding unit to the beam, and means cooperating with the holding unit for exerting pressure against the held axle to cause bending thereof.

1,944,863
WELDING MACHINE

Robert T. Gillette and Laurence R. Leveen, Scotia, N. Y., assignors to General Electric Company, a corporation of New York

Application June 22, 1933. Serial No. 677,058
11 Claims. (Cl. 219—4)



1. Apparatus comprising a slide, a work engaging member supported on said slide, means for guiding said slide along a path parallel to the work, and means for moving said guiding means toward and away from the work and said slide along said guiding means in one direction when said work engaging member is in contact with the work and in the opposite direction when said work engaging member is out of engagement with the work.

1,944,864
HOLLOW CABLE

Elmer William Hamcke, Brooklyn, N. Y., assignor, by mesne assignments, to Phelps Dodge Copper Products Corporation, New York, N. Y., a corporation of New York

Application March 28, 1932. Serial No. 601,517
3 Claims. (Cl. 173—13)



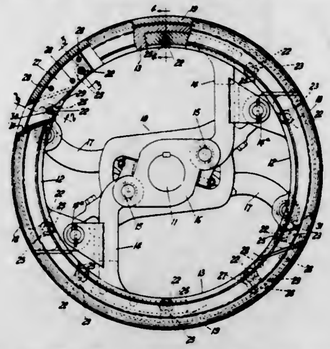
1. In a flexible conductor cable having a large outside diameter relative to its metallic area, a core comprising an open seam tube having serrated edges, the serrated edges being interlaced so that radial stresses are resisted by the interlaced arrangement of the serration, including an annular outer surface of high electric conductivity comprising a plurality of wires stranded thereon.

1,944,865
TIRE BUILDING FORM

Allen L. Heston, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio

Application October 30, 1931. Serial No. 571,997
7 Claims. (Cl. 154—9)

1. In a tire building form, the combination of a sectional annular rim structure, means for supporting, driving, and collapsing the same, a pair of drum sections for each rim section, each drum section being formed with an inwardly extending flange, and a plurality of bolts for securing the drum flanges to the rim sections, said flanges being formed with slots permitting the



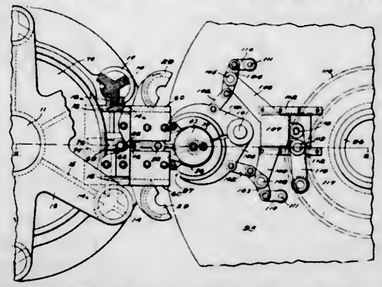
removal of the drum sections without complete removal of the bolts.

1,944,866
METHOD OF AND APPARATUS FOR FORMING GLASSWARE

Karl E. Peiler, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Application March 19, 1929. Serial No. 348,190
45 Claims. (Cl. 49—9)

45. Automatic transfer mechanism for glass forming machines, comprising means for supporting a hot glass parison by its neck end, a rotatable receiving mold, means for moving the parison and receiving mold in synchronism through separate non-axial circular paths, intersecting at a single transfer point, means for partially closing the receiving mold about the non-



axially moving parison, and means for disengaging the supporting means from the parison at the transfer point.

1,944,867
RESIN SOLUTION AND METHOD OF PREPARING SAME

John H. Schmidt, Bloomfield, and Rupert S. Daniels, Newark, N. J., assignors to Bakelite Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application May 7, 1927
Serial No. 189,742
10 Claims. (Cl. 134—26)

1. Process of preparing a resin solution, comprising reacting thiourea with formaldehyde in proportion to yield a permanently fusible resin; and dissolving the same, together with an anhydrous methylene-containing hardening agent, in a common solvent for said resin and hardening agent.

Patents Nos. 1,944,868 to 1,945,505

THE OFFICIAL GAZETTE

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January 30, 1934

Trade-Marks	124—No.	309,718 to No.	309,841, inclusive.
T. M. Renewals	38		
Labels	33—No.	43,171 to No.	43,203, inclusive.
Prints	10—No.	14,542 to No.	14,551, inclusive.
Reissues	4—No.	19,065 to No.	19,068, inclusive.
Designs	37—No.	91,416 to No.	91,452, inclusive.
Patents	638—No.	1,944,868 to No.	1,945,505, inclusive.
Total	884		

Adjudicated Patent

(C. C. A. Ohio.) Rowe patent, No. 1,755,133, for cover for annular objects, *Held* invalid. *Kemper-Thomas Co.* v. *Gordon Co.*, 67 F.(2d) 478.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,790,643, S. U. McGary, W. F. Rogers, and S. Gill, Metallic protective coating, decided January 9, 1934, claim 1.

Pat. 1,804,556, Marino Gentile, Composite covering material, decided December 15, 1933, claims 1 and 2.

Pat. 1,814,615, M. S. Black, Crown block, decided December 6, 1933, claims 10 and 11.

Pat. 1,818,563, W. C. Lindemann and E. A. Rutenber, Thermostatic device, decided January 8, 1934, claim 1.

Pat. 1,904,657, L. J. Fellay, Mining drill, decided January 11, 1934, claim 1.

Pat. 1,910,975, F. J. Wallace, Preserving coal, decided January 4, 1934, claims 1 and 2.

Pat. 1,921,963, J. I. Crabtree, Fade-in and fade-out for motion picture film sound record, decided January 2, 1934, claims 1, 2, 3, and 10.

Trade-Marks Canceled

157,631. Workmen's one-piece overall suits. Abbot Jacket Manufacturing Company, St. Louis, Mo. Registered August 15, 1922. Canceled January 8, 1934.

194,026. Bread. Geo. S. Coles, doing business as The Omar Health Products Co., Berkeley, Calif. Registered January 13, 1925. Canceled December 18, 1933.

289,996. Certain named toilet articles. H. W. Mfg. Co., Inc., Bessemer, Ala. Registered December 22, 1931. Canceled January 8, 1934.

304,408. Whiskey and gin. United Distillers Limited, Vancouver, British Columbia, Canada. Registered July 4, 1933. Canceled December 18, 1933.

Notices of Cancellation

U. S. Patent Office, *Washington, Jan. 16, 1934.*

United States Chemical Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the Marine Chemicals Company, Ltd., of 148 Montgomery Street, San Francisco, Calif., to effect the cancellation of the trade-mark registration of the United States Chemical Co., of 427 Third Avenue, Pittsburgh, Pa., No. 144,485, dated July 5, 1921, and the notice of such proceeding sent by registered mail to the said United States Chemical Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said United States Chemical Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

RICHARD SPENCER,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Jan. 16, 1934.*

Lessmann Bros., their assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Alexanderwerk A. von der Nahmer Aktien-Gesellschaft, Remscheid, Germany, to effect the cancellation of the trade-mark registration of Lessmann Bros., 362 East 156th Street, New York, N. Y., No. 154,996, dated May 16, 1922, and the notice of such proceeding sent by registered mail to the said Lessmann Bros., at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Lessmann Bros., their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

RICHARD SPENCER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business January 13, 1934

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 42,016; Trade-Mark Division, 1,153. Oldest new case, August 29, 1933; oldest amended, August 23, 1933.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Sept. 21	Sept. 28	469
6708	2. HERRMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Sept. 18	Sept. 18	734
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Oct. 13	Oct. 13	647
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Sept. 27	Sept. 21	380
3828	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Oct. 13	Oct. 13	476
4589C	6. LEWERS, A. M., Carbon Chemistry	Sept. 22	Sept. 23	962
5736	7. JARBOE, C. G., Optics; Photography	Sept. 30	Sept. 30	862
3887	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov 15	Nov. 24	243
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 10	Nov. 17	439
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Oct. 4	Oct. 9	467
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Malling and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 13	Sept. 14	583
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	Oct. 4	Oct. 4	558
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 1	Nov. 1	484
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Nov. 9	Nov. 10	366
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 1	Oct. 1	983
5612	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 6	Nov. 6	408
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 16	Sept. 15	829
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Nov. 14	Nov. 14	275
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Sept. 13	Sept. 13	1,067
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Sept. 12	Sept. 16	191
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Sept. 14	Sept. 15	846
5724	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Sept. 14	Sept. 14	891
7802	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Sept. 13	Sept. 13	536
5083	24. DURAS, C. O., Apparel: Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 17	Oct. 20	524
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 13	Sept. 13	898
5893	26. ADAMS, W. M., Electricity, Generation; Motive Power	Nov. 21	Nov. 21	289
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Oct. 14	Oct. 14	462
4628	28. BENSON, A. R., Internal-Combustion Engines	Sept. 13	Sept. 13	774
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Oct. 30	Nov. 7	250
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 13	Oct. 13	567
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Sept. 13	Sept. 13	1,060
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 24	Oct. 30	405
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Sept. 27	Sept. 22	780
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Sept. 13	Sept. 13	953
3660	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Sept. 30	Sept. 27	698
7624	36. McFAYDEN, A. D., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Aug. 28	Aug. 23	1,217
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 13	Oct. 13	399
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells: Hydraulic Cement and Lime; Roads and Pavements.	Sept. 14	Sept. 14	650
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 29	Oct. 5	683
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Sept. 27	Sept. 28	944
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Sept. 27	Oct. 2	432
5882	42. CUTTING, H. O., Electric Signaling	Sept. 15	Sept. 13	963
4886B	43. KLINGE, F. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Sept. 13	Sept. 13	598
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Sept. 13	Sept. 14	767
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Nov. 20	Dec. 1	232
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Oct. 23	Oct. 23	347
7600	47. BARKER, H., Clutches; Brakes; Motors	Sept. 16	Sept. 16	983
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Sept. 19	Sept. 19	624
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation: Driers	Sept. 13	Sept. 13	683
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Sept. 19	Sept. 22	927
5628	51. BACKUS, C. D., Radiant Energy	Oct. 18	Oct. 18	706
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Oct. 18	Oct. 27	456
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Oct. 27	Oct. 27	406
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Sept. 26	Sept. 23	825
6887	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	Sept. 8	Sept. 8	789
	Designs	Dec. 12	Dec. 11	416
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Sept. 15	Sept. 15	748
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 21	Oct. 10	300
5605	58. DOWELL, E. F., Abrading	Nov. 11	Nov. 17	243
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Sept. 18	Sept. 18	614
5806	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 13	Sept. 13	834
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus.	Sept. 14	Sept. 25	441
3578	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Sept. 19	Sept. 20	1,183
4886	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Sept. 23	Sept. 24	617
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Oct. 14	Oct. 13	886
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Sept. 14	Sept. 14	827
2099B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—Trade-Marks	Dec. 14	Dec. 29	1,014
	Labels and Prints	Dec. 13	Dec. 29	139

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

SHULTZ *v.* DUNHAM

No. 3,168. Decided December 4, 1933

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS.

Evidence reviewed and *Held* that D. has a right to make the claims in issue and that priority was properly awarded to him.

APPEAL from the Patent Office. Affirmed.

Messrs. Brown, Jackson, Boettcher & Dienner and *Mr. John A. Dienner* for Shultz.

Messrs. Barnett & Truman and *Mr. Percival H. Truman* for Dunham.

GRAHAM, *P. J.:*

On June 5, 1928, Patent No. 16,985, a reissue of Patent No. 1,654,759, originally filed June 12, 1926, was issued by the United States Patent Office. This reissue patent was issued on an application of the appellant filed February 25, 1928, and is upon certain improvements in steam-heating systems.

The appellee filed his application on October 18, 1923, for a patent upon a similar invention. On July 17, 1928, an interference was declared by the Patent Office, the subject matter of said interference being set out in twelve counts. These counts were claims taken from the Shultz reissue patent, and are claims 9, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25 thereof.

Counts 8 and 11 are thought to be typical of all the counts, and are as follows:

8. In a heating system for a building, the combination of a plurality of radiators therein each having a restricted inlet opening so proportioned that the quantity of heat carrying medium admitted thereto can be regulated by variations in the pressure thereof, an automatic regulator for varying the pressure of the heat carrying medium, adjustment varying means for varying the adjustment of said pressure regulator, and thermally sensitive means exposed to variations in temperatures external to the building for governing the adjustment varying means.

11. In a heating system, the combination of radiators each having a restricted inlet opening so proportioned that the quantity of heat carrying medium admitted thereto can be regulated by variations in the pressure of the heat carrying medium, an automatic pressure regulator loaded to a variable degree for varying the pressure of the heat carrying medium, means for loading said regulator to a variable degree comprising motor means and a temperature controlled device for governing the action of said motor means.

A motion was made in the Patent Office to dissolve the interference on the grounds that the party Dunham could not make the counts thereof, and that the elements upon which he must rely to satisfy the counts, are inoperative. This motion was overruled by the Law Examiner. The senior party Dunham also made a motion to strike out certain testimony and exhibits taken and introduced in behalf of Shultz. When the matter came on for hearing before the Examiner of Interferences, he allowed certain portions of the motion to strike, and denied the motion as to other parts of the proffered testimony. As to the right of the party Dunham to make the counts, the Examiner of Interferences was of the opinion that the counts read upon Dunham's disclosure. He also held that Dunham had established priority of invention. The matter was taken to the Board of Appeals, which held that the counts did read upon Dunham's disclosure, and that the decision of the Examiner of Interferences should be, and it was, affirmed.

Although many errors raising the various points in question are assigned in this court, appellant, upon the hearing, waives all except that of the disclosure of Dunham being insufficient to support the counts, and relies solely upon this point for reversal. It is, therefore, unnecessary to further allude to the other alleged errors, but the disclosures of the parties must be examined with a view to determining whether, in fact, the disclosures made by Dunham are so sufficient. A short description of the disclosure of each is necessary.

The invention in issue is a system of regulating the heat carrying medium in its distribution through the radiators of a steam heating system. Shultz discloses, by his specification and drawings, a number of radiators attached to a heating main, which main conducts the heat from a boiler. He shows no manually operated valves for these radiators, but in the supply pipe to each radiator is inserted a restricted inlet orifice, circular in form. The radiators shown in Shultz's drawings are in series, with a common supply pipe, and a common vent pipe for the waters of condensation. Inserted in the steam main from the boiler, is a pressure regulator or reducing valve. This reducing valve may be of any type, but the preferred one consists of a valve plug secured on a stem with a spiral spring which presses against the valve plug and tends to hold it closed. At the lower end the valve stem is pivoted to the inner end of a balance lever, which is adjustably weighted. The other end of this balance lever is connected with the core of a solenoid. This solenoid, under varying degrees of energization, will raise or lower the weighted arm to adjust the said pressure regulator valve structure.

The said solenoid, which has been designated by the inventor as (A), is, in turn, controlled by a relay solenoid which he denominates as (B), and which, in turn, is controlled by a thermostatic device consisting of a thermometer tube in which a resistance wire extends through a body of mercury. As the mercury rises or falls, the energization of the relay solenoid is effected and this, in turn, moves the core of this solenoid (B), to which core is attached a contact finger, which, as the carrying rod rises or falls, moves back and forth in engagement, along a resistance coil. The winding of this resistance coil gradually increases in diameter as this contact rises, and as the energization of the coil in the relay solenoid (B) decreases.

Shultz states in his specification that he places his thermostat outside the building, and it is apparent, from his specification, that he is attempting

to disclose the existence of a natural law to the effect that the heat pressure to be furnished to a radiator, or heating system, will vary exactly as the difference between the temperature outside of the building and inside varies. Much of his argument in this court, both orally and by his printed brief, is to the effect that he has shown and disclosed a system by which a temperature responsive thermostat so governs a pressure regulator as to cause said pressure regulator to provide steam pressures which increase or decrease according to the square of temperature difference between the inside and outside of the building. This, he argues, is done by his metering device in each radiator, and by his specially constructed solenoids and resistance coil.

The application of the party Dunham discloses a somewhat different arrangement. It discloses a series of radiators with a common steam supply pipe from the boiler, and with a common return pipe. Each radiator has a hand operated inlet valve, which may or may not be used, as desired. Each radiator also has a steam trap, for the escape of waters of condensation, of the ordinary type. Mounted in the steam supply pipe, between the boiler and the radiator supply pipes, is a pressure reducer, which is connected with a fluid filled thermostat, which, as the inventor states, may be inside or outside of the building. This pressure reducer operates valves in the supply main by two methods. Connected with the top of the pressure reducer is a pipe which is tapped into the supply main on the side farthest from the boiler. If the pressure on the radiator side of the valve decreases below the pressure in the steam main on the boiler side, by means of a flexible diaphragm in the top of this pressure reducer, the valve will be opened until the equality of pressure is restored. Again, the effect of the temperature upon the thermostat will, by means of mechanism shown fully by the disclosure, also open or close the valve in the supply main, as required.

In other words, the pressure reducer performs a double function, namely, that of equalizing the pressure of the heating fluid in the radiators and in the supply main on both sides of this reducer and, at the same time, of making the supply of steam to be admitted to the radiators dependent upon the temperature of the spot where the thermostat may be placed.

Dunham also shows a further device for freeing the system of waters of condensation and surplus air. This is done by means of a tank connected with the return pipe of the radiator, and which receives water drawn from said pipe and which, upon being filled to a certain point, will, by a float and lever, start an electric motor and pump, which will start a hurling circuit and free the tank of the excess water and air. This latter device serves to create a partial vacuum in the return pipe of the radiator system, by drawing the condensate and air therefrom and forces the waters of condensation back into the boiler. This is substantially the Dunham disclosure.

The only question is that of the correctness of the decision of the Board of Appeals holding that the counts of the interference read upon the Dunham disclosure.

Primarily it will be observed that while it may be that the appellant has disclosed a system by which the pressure regulator shown by Shultz will provide steam pressures which increase or decrease according to the square of temperature differences, there is nothing in any of the claims which claims this feature as patentable. The Board of Appeals is of the opinion that there is no such natural law as that proposed by the appellant, namely, that a building loses heat directly proportional to the difference between the inside and outside temperatures of a building. The Board remarks, as to this theory, that such cannot be the law because the amount of heat to be furnished to a heating system will depend upon many factors, not only the difference in temperature, but also the location of a building, its structure, and other features.

We are not called upon to pass upon the inventive character of the appellant's contentions in this respect. It is sufficient to say that, while he has disclosed such a theory in his specification, he has not claimed it, and, therefore, cannot count upon this feature in questioning the right of the senior party to make the counts of this interference. That Dunham says nothing on this subject in his specification is immaterial, in view of the counts in issue.

Again it is argued that the party Dunham does not show this feature—

> a restricted inlet opening so proportioned that the quantity of heat carrying medium admitted to the unit can be regulated by variations in pressure in the heat carrying medium.

This or similar language is repeated in many of the counts and is relied upon strongly.

So far as the disclosures of the parties are concerned, we are unable to agree with this contention. Restricted openings into the radiators are shown in the Dunham device as fully as in the Shultz patent. In fact, it was conceded upon the hearing that such restricted openings are well known to the art. There is nothing in the size or shape or construction of these openings which differentiates them in the respective systems disclosed here. Dunham disclosed the idea of proportioning the sizes of said inlet openings. That variations of pressure in the heat carrying medium would be thus taken care of appears plainly from his specification:

> • • • The orifice plate is removable so that the valve for each of the radiators may be fitted with a plate having an orifice of the proper size to provide for the admission of the proper amount of steam to the radiator dependent upon the position of the radiator with respect to the source of supply of the other radiators of the system.

Counsel for appellant argue that Dunham's hurling circuit and steam traps are essential to the operation of Dunham's system and are unnecessary in appellant's. As we read the counts of the interference, there is nothing therein which excludes the use of these Dunham appurtenances to his system. Dunham's disclosure supports the counts in their essential features. If, in addition thereto, he shows other appurtenances to his system, not disclosed by Shultz, but which do not alter or detract from the features common to both, upon which the counts are framed, the existence of such appurtenances presented no reason why the interference should have been dissolved.

Again, the appellant insists that the systems of Shultz and Dunham are so distinct as to have no common subject matter, and that the counts should be interpreted in accordance with what they mean in the patent itself, citing *Slattery* v. *Larner*, 17 C. C. P. A. (Patents) 725, 36 F.(2d) 298; 393 O. G. 249; *Podlesak* v. *McInnerney*, 26 App. D. C. 399, 120 O. G. 2127, and other cases. Counts in an interference should be given as broad a meaning as their terminology will reasonably permit. *Slattery* v. *Larner*, supra. The counts of the interference here read broadly upon the disclosures of both parties. If the appellant had been content to rest his claims upon the specific structure disclosed by him, the appellee might not have been able to make such claims. However, when he so broadens his claims as to include other systems including differing structures, he can not complain if others having such differing structures make the same claim. These counts are broadly drawn, are not ambiguous, and must be given the broadest construction which their language will support. Limitations, not expressed, will not be read into them. *Martin* v. *Friendly*, 19 C. C. P. A. (Patents) 1181, 58 F.(2d) 421; 422 O. G. 6; *Oldroyd* v. *Morgan*, 19 C. C. P. A. (Patents) 1111, 57 F.(2d) 358, 421 O. G. 858.

During the pendency of this interference in the Patent Office, the party Shultz applied for a reissue of his reissued patent here in interference. The appellee thereupon moved for judgment in the interference, alleging that such application constituted a disclaimer of the subject matter of the interference. This motion was denied by the Examiner of Interferences. Afterward, in this court, appellee moved to dismiss this appeal on the grounds stated in his previous motion for judgment, and also moved to strike certain items of testimony included in Shultz's record in the interference. These motions have been taken with the case. In view of our conclusion on the merits, we deem it unnecessary to pass upon these motions.

A suggestion of a diminution of the record was also made here by appellee and, on certiorari, certain additional parts of the record were certified up by the Patent Office. We have inspected them and find that they were reasonably necessary to the proper disposition of the issues in this appeal, as originally made by the parties.

The decision of the Board of Appeals is, therefore, affirmed. The costs of printing the additional record will be taxed against the appellant.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE SKAUPY AND PULFRICH

No. 3,174. Decided December 4, 1933

PATENTABILITY—ELECTRIC DISCHARGE DEVICE.

Claims for an electric discharge device *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Frederick Transom and *Mr. Thos. H. Brown* for Skaupy and Pulfrich.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GRAHAM, *P. J.:*

This is an appeal from the Board of Appeals of the United States Patent Office rejecting claims 1 to 8, inclusive, of the application of the appellants for a patent on alleged improvements in "electric lighting tubes with carbonic acid filling." The decision of the Board of Appeals affirmed that of the Examiner.

Typical claims are 2 and 4, which are as follows:

> 2. An electrical discharge device comprising an envelope, electrodes therein and a charge of attenuated gas comprising helium as the discharge maintaining gas and carbon dioxide, the radiation characteristic of said device being substantially that of the carbon dioxide.
>
> 4. An electrical discharge device comprising an envelope, electrodes sealed therein, a gaseous filling for said envelope comprising a discharge maintaining rare gas and a gas having a radiation characteristic different from that of said discharge maintaining gas.

The claims were rejected on reference to British Patent 135,487, September 30, 1920, and British Patent 155,783, April 28, 1921.

The specification of the appellants recites that the alleged invention has reference to electric lighting devices of the Moore tube type, and particularly to lamps filled with carbon dioxide. The appellants use, as a tube filling, a mixture of carbon dioxide and one of the rare gases, preferably helium. A specially favorable tube filling is given as 0.1 mm. of carbon dioxide and 2.9 mm. of helium. This mixture, the appellants state, will give the light radiation of the common gas, while the excess of rare gases will facilitate the starting and maintenance of the electric discharge. The specification further recites:

> It is already known in the manufacture of electric glow light lamps to use a filling which besides rare gases has a small quantity of a base gas, also carbon dioxide. In this case, however, the positive column is suppressed by the close location of the electrodes and the quantity of base gas, for example carbonic acid is intentionally chosen so slight, that it does not affect the color of the rare gas discharge but only prevents the atomization of the electrodes.

Both tribunals in the Patent Office were of opinion that the use of a mixture of common and rare gases as a filling for electric lamps was fully shown by the reference patents, and was well known in the art. The appellants admit this upon the oral argument as well as by their specification heretofore quoted. In addition, it is quite evident, from the specifications and claims of the British reference patents, that this is true, both reference patents showing plainly the use of such rare gases and base gases in substantially the proportions specified by the appellants.

There is, therefore, nothing inventive in the idea of using such a mixture of gases. The appellants, however, contend that their claims may be differentiated from those of the British patents in two respects, first, that their mixture of gases is used with electric lamps of the Moore tube type, while the British patentees do not so specify, and, second, the radiation characteristic of said device being substantially that of the carbon dioxide.

An inspection of the claims of appellants shows that in no instance do they rely upon or mention that the mixture of gases must be used in an electric lamp of the Moore tube type, nor do they, in any respect, claim any particular position of the electrodes in the same. Therefore, it appears that, so far as this feature is concerned, the appellants do not claim it, but state their claims so broadly as to apparently include any electric lamp using such gaseous mixtures as a source of illumination.

The tribunals of the Patent Office were of the opinion that the applicants had not disclosed any patentable feature by their statement,

the radiation characteristic of said device being substantially that of the carbon dioxide.

in view of the fact that they used the same mixture as in the reference patents, and showed and claimed no material structural differences between their lamp and those of the reference patents.

This we find to be a correct statement. The British patentees used the same mixture of gases in the same proportions as those disclosed by appellants. Naturally, unless there were material structural differences in the lamps which they respectively used, the result of the transmission of electric current would be the same, in the quality of light radiated. If, in the ordinary use of the devices shown by the British patents, the same light characteristics would necessarily follow, then the British patentees are entitled to the benefit of their respective disclosures, and the appellants here cannot claim such a result as a patentable feature. *Potts* v. *Creager*, 155 U. S. 597, 70 O. G. 494; *In re Smith*, 17 C. C.-P. A. (Patents) 644, 36 F.(2d) 302, 391 O. G. 247; *In re Watson*, 18 C. C. P. A. (Patents) 712, 44 F.(2d) 868, 402 O. G. 3.

It may be true that the appellants here have produced a result in radiation not heretofore known to the art. If so, as properly remarked by the tribunals of the Patent Office, it is by virtue of some novelty of construction which is not claimed by the appellants. So far as this record shows, they have claimed only a function of devices well known to the art.

A somewhat similar case is *In re Hammond*, 17 C. C. P. A. (Patents) 803, 37 F.(2d) 760, 394 O. G. 275. There the applicant disclosed a torpedo structure, adding to the claims this language:

• • • means being operative to hold said rudder in said port or starboard position until the vessel encounters a current.

This, it was argued, would move the torpedo back and forth until it would strike the vessel at which it was aimed. A reference patent disclosed a similar device. This court held that while applicant's torpedo might function as claimed, so might the device of the reference patentee, and, there being no recitation of structural details to differentiate the device of applicant from the patentee, the applicant must be held to be attempting to patent a function only, which could not be done.

The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

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1,195,651, J. M. Burns, Indicating device for carriers; 1,585,290, C. S. Jennings, Indicating arrangement for pneumatic tube carrier; 1,691,038, M. Anderson, Pneumatic tube carrier, filed Mar. 26, 1932, D. C., N. D. Ill., E. Div., Doc. 11,608, *The Lamson Co.* v. *M. Anderson et al.*

1,223,659, W. S. Barnickel, Treatment of crude oil; 1,467,831, same, Process for treating petroleum emulsions; 1,596,589, M. De Groote, same, filed Nov. 3, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E 105–H, *The Tretolite Co. et al.* v. *Research Products Co., Ltd., et al.* Doc. E 106–H, *The Tretolite Co. et al.* v. *C. I. Keller Superior Chemical Co.*) *et al.*

1,258,830, Trube & Ford, Advertising sign; 1,579,597, R. M. Craig, same; 1,395,397, C. E. Dellenbarger, Display apparatus; 1,728,743, 1,729,323, 1,763,741, 1,763,742, H. B. Barkes, Display device, filed April 21, 1932, D. C., N. D. Ill., E. Div., Doc. 11687, *Motologue Advertising Corp. et al.* v. *W. F. Williamson Advertising Service of Illinois, Inc., et al.*

1,265,957, I. Ressler, Disinfectant pad; 1,803,238, F. J. Curran, Insecticide and deodorizing tablet, filed Mar. 29, 1932, D. C., N. D. Ill., E. Div., Doc. 11,610, *F. J. Curran* v. *M. Miller et al.*

1,304,211. (See 1,632,011.)

1,317,431, L. P. Clutter, Ditching or excavating machine; 1,476,121, G. E. Wagner et al., Excavating scoop, filed Nov. 10, 1933, D. C., N. D. Iowa (Cedar Rapids), Doc. 158, *Keystone Driller Co.* v. *Speeder Machinery Corp.*

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1,372,441. (See 1,584,955.)

1,381,325, G. J. Meyer, Soaking and washing machine, D. C., E. D. Wis. (Milwaukee), Doc. 4186, *G. J. Meyer Mfg. Co.* v. *G. M. Danke Co.* Consent decree for plaintiff holding patent valid Nov. 10, 1933.

1,395,397. (See 1,258,830.) 1,419,121. (See 1,632,011.)

1,442,159, B. Kugler, Terminal coupling and anchorage for window cleaners' harness; 1,462,761, same, Locked anchorage for window cleaners' harness; 1,464,825, same, Drilled base anchorage for window cleaners' harness; 1,649,240, same, Safety harness and coupling for window cleaners' harness; Des. 71,386, same, Anchorage for window cleaners' harness, filed Mar. 7, 1932, D. C., N. D. Ill., E. Div., Doc. 11,523, *J. Kugler* v. *The Imperial Brass Mfg. Co.*

1,462,761. (See 1,442,159.) 1,464,825. (See 1,442,159.)

1,467,831. (See 1,223,659.)

1,469,712, F. F. Beeby, Process of conserving and repairing chimneys; 1,484,862, same, Chimney; 1,550,667, same, Gunite chimney, filed April 23, 1932, D. C., N. D. Ill., E. Div., Doc. 11,714, *Cement Gun Co. et al.* v. *National Gunite Contracting Co. et al.*

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1,480,137, B. C. Allin, Loading platform, and wharf arrangement, D. C., S. D. Calif. (Los Angeles), Doc. E Y–4–M, *B. C. Allin* v. *Central Mfg. District, Inc., et al.* Consent decree of dismissal without prejudice Oct. 31, 1933.

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1,564,170, K. C. Berger, Lamp shade frame; 1,635,268, Furst & Tave, Lamp shade holder, D. C., S. D. N. Y., Doc. E 76/326, *K. C. Berger* (*Berger Machine Co.*) v. *Watral & Sons Corp. et al.* Injunction granted (Nov. 14, 1933).

1,578,725, I. M. Hackney, Acetylene generator, filed Mar. 30, 1932, D. C., N. D. Ill., E. Div., Doc. 11,613, *F. Hackney* v. *Imperial Brass Mfg. Co.*

1,579,597. (See 1,258,830.)

1,584,788, A. H. Maynard, Stapling machine; 1,591,986, same, Staple supporter for stapling machine, filed June 2, 1933, D. C., N. D. Ill., E. Div., Doc. 13,335, *Boston Wire Stitcher Co.* v. *Ace Fastener Corp. et al.*

1,584,955, W. H. Leinweber, Fluid propeller; 1,623,420, same, Propeller; 1,372,441, C. H. Leinweber et al., same, D. C., N. D. Ill., E. Div., Doc. 11633, *Ace Engineering Machinists Co. et al.* v. *Airmaster Corp. et al.* Dismissed May 9, 1933.

1,585,290. (See 1,195,651.)

1,590,146, W. R. Zimmerman, Thermostatic valve; 1,696,410, J. V. Palm, Thermostatic control valve for cooling systems; 1,763,802, E. J. Levy, Thermostat; 1,822,863, same Thermostatic valve, filed Nov. 14, 1933, D. C., N. D. Ohio, E. Div., Doc. 4819, *The Bishop & Babcock Mfg. Co.* v. *Bridgeport Brass Co.* Doc. E 4820, *The Bishop & Babcock Mfg. Co.* v. *Western Auto Supply Co.*

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1,632,011, F. Tinker, Production of petrol; 1,304,211, Solcum & Stutz, Apparatus for treating hydrocarbons; 1,419,121, W. F. Rittman, Manufacture of light hydrocarbons; 1,330,008, same, Treatment of hydrocarbons; 1,365,604, Rittman & Dutton, same; 1,740,691, C. J. Greenstreet, Apparatus and process of treating hydrocarbon oils; 1,886,093, same, Process for treating hydrocarbon oils; 1,747,437, Herthel & Tifft, Art of cracking hydrocarbon oils, filed May 12, 1933, D. C., N. D. Ill., E. Div., Doc. 13,253, *Sinclair Refining Co.* v. *Donnelly Process Co.*

1,635,268. (See 1,564,170.) 1,649,240. (See 1,442,159.)

1,655,002. (See 1,837,219.) 1,691,038. (See 1,195,651.)

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1,727,493, S. Tranin, Yolk separating device, D. C., N. D. Ill., E. Div., Doc. 11580, *Tranin Egg Products Co.* v. *Mars, Inc.* Dismissed Mar. 31, 1933.

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1,901,855, M. S. DuPont, Aerial banner, filed Nov. 14, 1933, D. C., E. D. N. Y., Doc. E 7112, *Kellett Autogiro Corp.* v. *Flying Sign Corp. of America et al.*

1,924,262, R. E. Thompson, Safety razor blade, filed Nov. 15, 1933, D. C. Conn. (New Haven), Doc. E 2321, *Gillette Safety Razor Co.* v. *Standard Safety Razor Corp.*

Re. 17,236. (See 1,858,714.) Re. 17,237. (See 1,858,714.)

Des. 71,386. (See 1,442,159.)

Des. 85,738, H. G. Dibelka, Radiator cap, filed April 22, 1932, D. C., N. D. Ill., E. Div., Doc. 11712, *The Norlipp Co.* v. *Faith Mfg. Co. et al.*

Des. 89,304, A. Gross, Lens for automobile lamp, filed Nov. 8, 1933, D. C., S. D. N. Y., Doc. E 76/386, *A. G. Sales Co., Inc.*, v. *W. Kobin et al.* (*Snap-Lite Co.*) *et al.*

T. M. 95,398, T. M. 95,990, Chevrolet Motor Co., Automobile and accessories and parts thereof; T. M. 190,028, General Motors Corp., Automobiles and motor vehicles and parts thereof; T. M. 216,070, same, Automobiles, filed June 29, 1933, D. C., N. D. Ill., E. Div., Doc. 13382, *General Motors Corp.* v. *G. E. Vallow et al.*

T. M. 95,990. (See T. M. 95,398.)

T. M. 190,028. (See T. M. 95,398.)

T. M. 216,070. (See T. M. 95,398.)

Disclaimers

1,813,940. *Harmon E. Lindbladh*, Brookline, Mass. RULING MACHINE. Patent dated July 14, 1931. Disclaimer filed January 11, 1934, by the assignee, *The Lindbladh Corporation*, and the mortgagee, *Robert T. Duffy*.

Hereby enter this disclaimer to claims 8, 9, and 10, of said patent, No. 1,813,940, which are in the following words, to wit:

"8. In a ruling machine, a plurality of ruling devices arranged to act successively upon the work, a plurality of work-controlling means one co-operating with each ruling device, means for actuating the controlling means in predetermined time-relation to one another, and means arranged to vary separately the rate at which the work-controlling means act.

"9. In a ruling machine, a plurality of sets of ruling devices successively acting upon the same side of sheets to be ruled, means for feeding the sheets to one set of ruling devices, means by which the ruled sheets are received and are fed to another set of ruling devices, and sheet-controlling means associated with each feeding means and corresponding ruling devices.

"10. In a ruling machine, a plurality of sets of ruling devices, means arranged to cause the sets of ruling devices to act successively upon the sheets to be ruled in definite time relation to one another, means for feeding the sheets to one set of ruling devices, means by which the ruled sheets are received and are fed to another set of ruling devices, sheet-controlling means associated with each feeding means and corresponding set of ruling devices, and means arranged to vary the rate of feed of the sheets to one of the sets of ruling devices independently of the feed to an associated set."

1,849,131. *George H. Zoyck*, Orange, N. J. FLEXIBLE CONNECTION. Patent dated March 15, 1932. Disclaimer filed January 5, 1934, by the patentee, and the assignee, *Franklin Railway Supply Company*.

Hereby enter this disclaimer to that part of the claim in said specification which is in the following words, to wit:

"12. A flexible connection for use between coupled vehicles including, in combination with vertically spaced conduits to be connected, a section of piping extended between the conduits, a flexible joint device interconnecting the upper end of said piping and the upper conduit, a second flexible joint device interconnecting the lower end of said piping and the lower conduit, each of said joint devices providing for relative rotative movement between the piping section and the said conduits, and a spring supporting mechanism for lower flexible connection parts, said mechanism including means for hanging the spring, at its ends, at points to one side of the joint devices, the said points forming, with a point in each of said devices, a parallelogram."

1,892,354.—*William A. MacDonald*, Little Neck, N. Y. HIGH-FREQUENCY TRANSFORMER. Patent dated December 27, 1932. Disclaimer filed January 15, 1934, by the patentee, the assignee, *Hazeltine Corporation*, consenting.

Therefore, enters this disclaimer to claims 4, 5, 11, 12, 13, and 17, to wit:

He disclaims from claim 4:

"A radio-frequency transformer comprising a helical-wound secondary winding having a length at least as great as its diameter, and a primary winding of small axial length relative to that of said secondary winding located adjacent one end of said secondary winding"—

except—

"A radio-frequency transformer comprising a helical-wound secondary winding having a length at least as great as its diameter, and a primary winding of small axial length relative to that of said secondary winding located adjacent one end of said secondary winding, having a metal shield of low specific resistance circumferentially surrounding said windings."

He disclaims from claim 5:

"A radio-frequency transformer according to claim 4"—

except—

"A radio-frequency transformer according to claim 4 having a metal shield of low specific resistance surrounding the windings of said transformer."

He disclaims from claim 11:

"A high frequency transformer comprising a helical-wound secondary coil and a closely wound multi-layer primary coil"—

except—

"A high frequency transformer comprising a helical-wound secondary coil and a closely wound multilayer primary coil having a metal shield of low specific resistance surrounding said coils."

He disclaims from claim 12:

"A high frequency transformer according to claim 11"—

except—

"A high frequency transformer according to claim 11 having a metal shield of low specific resistance surrounding the coils of said transformer."

He disclaims from claim 13:

"A high frequency transformer according to claim 11"—

except—

"A high frequency transformer according to claim 11 having a metal shield of low specific resistance surrounding the coils of said transformer."

He disclaims from claim 17:

"A coupling system comprising two windings"—

except—

"A coupling system comprising two windings having a metal shield of low specific resistance surrounding said windings."

1,910,975.—*Fredrick J. Wallace*, Brooklyn, N. Y. PRESERVING COAL. Patent dated May 23, 1933. Disclaimer filed January 10, 1934, by the assignee, *Robeson Process Company*.

Therefore disclaims claims 1 and 2 of said patent, No. 1,910,975, said claims being in the following words:

"1. In the preparation of coal for standing, storage and shipment the process which comprises spraying coal prior to complete air drying with a dilute solution of a residue of sugar manufacture.

"2. The process of claim 1 where the residue is black strap molasses."

Your petitioner further disclaims any interpretation of claim 3 other than in the preparation of coal for standing, storage, and shipment the process which comprises spraying coal prior to complete air drying with a dilute solution of a residue of sugar manufacture where the residue is a fermented and distilled molasses.

TRADE-MARKS

OFFICIAL GAZETTE, JANUARY 30, 1934

[VOL. 438. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 344,806. RAY FUEL COMPANY, Detroit, Mich. Filed Dec. 11, 1933.

KOLCHAR



For Processed or Prepared Coal.
Claims use since Nov. 15, 1933.

CLASS 2

Receptacles

Ser. No. 340,925. WILLIAM L. OFFENBACHER, Miami, Fla. Filed Aug. 22, 1933.

Servasac

For Glassine, Cellophane, and Similar Paper Bags for Food.
Claims use since Nov. 1, 1932.

Ser. No. 344,095. JABURG BROTHERS, INC., New York, N. Y. Filed Nov. 24, 1933.

JAY  BEE

For Bags of Paper and of Woven Material; Barrels, Barrel Covers, and Kegs, Either of Wood or Metal; Baskets Made of Wood, Rattan, Reed and/or Wire; Cans Made of Metal, Bins Made of Wood and/or Metal; Cartons, Hampers, and Crates Made of Wood, Reed, and/or Rattan.
Claims use since April, 1915.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 338,498. GEORGE W. LOWD, doing business as G. W. Lowd, Sommerville, Mass. Filed June 3, 1933.

I X L

For Medicinal Compound for the Treatment of Psoriasis and Eczema.
Claims use since Nov. 1, 1930.

Ser No. 340,138. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed July 26, 1933.

Cholatol

For Medicinal Preparation for the Treatment of Certain Gastro-Intestinal Conditions and Affections of the Biliary Tract.
Claims use since Jan. 1, 1922.

Ser. No. 340,181. JOHN M. AGNEW, doing business as Bysul Co., Los Angeles, Calif. Filed July 28, 1933.

"BYSUL"

For Proprietary Medicine—Namely, a Liquid Compound of Sulphur for Use Externally and Internally in the Treatment of Rheumatism, Arthritis, and Skin Irritations Such as Insect Bites, Rash, Hives, Poison Oak, Poison Ivy, Dandruff, Ringworm, Eczema, and Acne and Also as a Soothing Medium for Douches, Enemas, and the Treatment of Protruding Piles.
Claims use since Mar. 25, 1933.

Ser. No. 341,353. ELIZABETH ARDEN, INC., New York, N. Y. Filed Sept. 6, 1933.



The representation of the container is hereby disclaimed and the words "Beauty Film" are disclaimed apart from the mark shown.

For Preparation for Application to the Legs and Arms to Cover Blemishes Such as Bruises, Varicose Veins, etc. It is Used in the Summer Time in Place of Stockings, Giving Numerous Desired Tints.

Claims use since May 19, 1933.

Ser. No. 341,354. ELIZABETH ARDEN, INC., New York, N. Y. Filed Sept. 6, 1933.



The representation of the container appearing in the drawing is hereby disclaimed and the words "Sun-Pruf Cream" are disclaimed apart from the mark shown.

For Sunburn Cream.

Claims use since May 19, 1933.

Ser. No. 341,778. TUBERKULOSE-HEILSTOFF-WERK G. M. B. H., Leipzig, Germany. Filed Sept. 21, 1933.

Trade-mark is a facsimile of the signature of Dr. Med. Friedrick Frans Friedmann.

For Chemical or Bacteriological Products Comprising Healing Preparations, Medicines, Sera, Salves, and Disinfectants for Use in the Treatment of Tuberculosis in Men and Animals.

Claims use since November, 1913.

Ser. No. 342,727. CHAMBERLAIN LABORATORIES, Des Moines, Iowa. Filed Oct. 21, 1933.

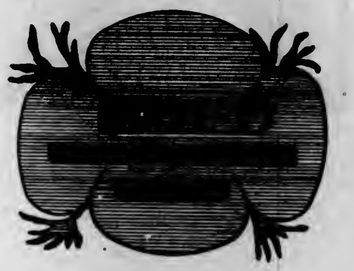


No claim is made to the representation of the container and the word "Lotion" aside from the trade-mark as shown in the drawing.

For Lotion for Hands and Skin.

Claims use since October, 1932.

Ser. No. 343,058. STANLEY B. BAILEY, doing business as B. Bailey and Bail-O-Products Co., San Francisco, Calif. Filed Oct. 31, 1933.



The drawing is lined for shading only.

For Cleansing Cream, Vanishing Cream, Face Powder, Skin Bleach, Pressing Oil, and Hair Tonic.

Claims use since Jan. 15, 1932.

Ser. No. 343,438. PAUL DE COURCY, doing business as American Medicinal Soda Company, Cincinnati, Ohio. Filed Nov. 9, 1933.

MT. HOPE MEDICATED SODA

Disclaimer is made to the exclusive use of the words "Mt. Hope Medicated Soda" when used apart from the other features of the mark.

For Medicines and Pharmaceutical Preparations Specifically for a Gargle and Mouth-Wash.

Claims use since Aug. 28, 1933.

Ser. No. 344,042. CAPITAL DRUG COMPANY, INC., Augusta, Maine. Filed Nov. 23, 1933.

F. G. Kinsman

The signature is that of F. G. Kinsman, deceased, applicant's predecessor in business.

For Medicinal Preparation for use in the Treatment of Asthma and Hay Fever, Cigarettes for Use in the Treatment of Asthmatic Paroxysms, Digitalis Compound Tablets, and Antacid Tablets.

Claims use since November, 1891, on medicinal preparation; since Jan. 1, 1929, on medicated cigarettes; since Sept. 1, 1900, on digitalis compound tablets; and since Mar. 1, 1933, on antacid tablets.

Ser. No. 344,043. CAPITAL DRUG COMPANY, INC., Augusta, Maine. Filed Nov. 23, 1933.



Dr. F. G. Kinsman

The portrait and facsimile of the signature are those of Dr. F. G. Kinsman, deceased.

For Digitalis Compound Tablets.

Claims use since Sept. 1, 1900.

Ser. No. 344,044. CAPITAL DRUG COMPANY, INC., Augusta, Maine. Filed Nov. 23, 1933.

Kinsman's



The portrait is that of Dr. F. G. Kinsman, deceased.

For Antacid Tablets.

Claims use since Mar. 1, 1933.

Ser. No. 344,107. JAMES READER, doing business as Reader's Pharmacy, Chicago, Ill. Filed Nov. 24, 1933.

NOD

For Sedatives.

Claims use since Oct. 19, 1933.

Ser. No. 344,112. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Nov. 24, 1933.



The representation of the pads is disclaimed apart from the mark shown. Applicant is the owner of registration No. 275,209, of Sept. 16, 1930.

For Adhesive Medicated Shields or Pads for Corns.

Claims use since June 16, 1921.

Ser. No. 344,113. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Nov. 24, 1933.



The representation of the pad is disclaimed apart from the mark shown. Applicant is the owner of registration No. 275,209, of Sept. 16, 1930.

For Adhesive Medicated Shields or Pads for Callouses.

Claims use since June 16, 1921.

Ser. No. 344,114. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Nov. 24, 1933.



The representation of the pad appearing on the drawing is disclaimed apart from the mark shown. Applicant is the owner of registration No. 275,209, of Sept. 16, 1930. For Adhesive Medicated Shields or Pads for Bunions. Claims use since June 16, 1921.

Ser. No. 344,251. DINA RUBENSTEIN, doing business as Continental Pharmacal Co., New York, N. Y. Filed Nov. 29, 1933.

AKTIZ

For Callous and Corn Compound.
Claims use since June 12, 1933.

Ser. No. 344,263. J. GEORGE FELDER, doing business as Melrose Laboratory, New York, N. Y. Filed Nov. 29, 1933.

OREO

For Mouth Wash.
Claims use since Nov. 17, 1933.

Ser. No. 344,278. HOUBIGANT, INC., New York, N. Y. Filed Nov. 29, 1933.

Clé des Champs

For Perfume, Toilet Water, Face Powder, Talcum Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Dusting Powder, Sachet, Cold Creams, Lotion for the Skin and Hair, Powder and Rouge Compacts, and Eau Vegetal.
Claims use since Nov. 15, 1933.

Ser. No. 344,402. JAY C. JOHNSON, doing business as House of Johnson, Baltimore, Md. Filed Dec. 2, 1933.

CODATE

For Preparation in the Form of Tablets for the Treatment of Constipation.
Claims use since Feb. 20, 1932.

Ser. No. 344,432. GEORGE W. FILLAUER, doing business as Red Star Drug and Surgical Co., Chattanooga, Tenn. Filed Dec. 4, 1933.

PASACOL

For Medicinal Preparation Recommended for the Treatment of Colds, Coughs Due to Results of Colds, Influenza, and la Grippe.
Claims use since October, 1930.

Ser. No. 344,479. ROBERT W. LANGLEY, doing business as Methanthin Laboratories, Los Angeles, Calif. Filed Dec. 5, 1933.

METHANTHIN

For Vasodilator and Diuretic.
Claims use since Mar. 1, 1932.

Ser. No. 344,871. SKELLY OIL COMPANY, Tulsa, Okla. Filed Dec. 12, 1933.

SLAZALL

For Insecticide.
Claims use since Dec. 7, 1933.

CLASS 7

Cordage

Ser. No. 343,613. INDEPENDENT CORDAGE CO., INC., New York, N. Y. Filed Nov. 13, 1933.

Independent

For Cordage, Rope, Cord, and Twine.
Claims use since October, 1932.

CLASS 10

Fertilizers

Ser. No. 342,668. ROCKLAND & ROCKPORT LIME CORPORATION, Rockland, Maine. Filed Oct. 19, 1933.

SANILIME

For Agricultural Lime.
Claims use since May 25, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 339,168. LEON TRACHTENBERG, doing business as Delco Laboratories, Brooklyn, N. Y. Filed June 23, 1933.

DELCO

For Ready-Mixed Paints and Varnishes.
Claims use since June, 1932.

CLASS 17

Tobacco Products

Ser. No. 344,846. A. GUTIERREZ, INC., Passaic, N. J. Filed Dec. 12, 1933.

FLOR DE Carbajal

For Cigars.
Claims use since Nov. 28, 1933.

Ser. No. 344,847. A. GUTIERREZ, INC., Passaic, N. J. Filed Dec. 12, 1933.

LA CABAÑA

For Cigars.
Claims use since Nov. 28, 1933.

Ser. No. 344,964. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Dec. 15, 1933.



For Smoking, Chewing, and Cigarette Tobaccos.
Claims use since Mar. 10, 1890.

Ser. No. 344,965. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Dec. 15, 1933.



For Cigarettes, Cigars, Smoking, and Chewing Tobacco.
Claims use since 1890.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 345,040. A. G. SPALDING & BROS., New York, N. Y. Filed Dec. 16, 1933.

WHIP-RITE

For Golf Clubs.
Claims use since Nov. 13, 1933.

Ser. No. 345,052. GOLF BALL, INC., Chicago, Ill. Filed Dec. 18, 1933.

CANNY SCOT

For Golf Balls.
Claims use since Nov. 21, 1933.

Ser. No. 345,053. GOLF BALL, INC., Chicago, Ill. Filed Dec. 18, 1933.

SCOTCH KING

For Golf Balls.
Claims use since Nov. 21, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 332,080. REEFER'S NO-MOTH, INC., New York, N. Y. Filed Nov. 11, 1932.

INJECT-O

For Hollow Needle Shaped Sprayer Head Used in Conjunction with a Sprayer.
Claims use since Apr. 4, 1930.

Ser. No. 333,144. BRESDUCK, INC., New York, N. Y. Filed Dec. 17, 1932.



For All Manner and Kinds of Razors, Shears, Scissors, Knives of Base Metal, and Hair Clippers.
Claims use since May 1, 1931.

Ser. No. 340,151. EDWARD C. BRUNNER, Cleveland, Ohio. Filed July 27, 1933.

BRUNITE

For Lawn-Mower Blades (Bed Knife).
Claims use since March, 1932.

Ser. No. 341,463. THE MENNEN COMPANY, Newark, N. J. Filed Sept. 9, 1933.

MENNEN



The portrait on the drawing is that of Gerhard Mennen, deceased, founder of applicant's business.
For Razor Blades.
Claims use since Aug. 23, 1933.

Ser. No. 343,511. NATHAN A. KURMAN, doing business as Rex Sales Co., New York, N. Y. Filed Nov. 10, 1933.



For Staple Machines and Paper Stapling and Fastening Machines.
Claims use since Aug. 25, 1933.

Ser. No. 343,780. LIBERTY ACCESSORIES CORPORATION, Mount Vernon, N. Y. Filed Nov. 17, 1933.

LIBERTY



For Piston Expanders.
Claims use since June 29, 1933.

Ser. No. 344,071. VANADIUM ALLOYS STEEL COMPANY, Latrobe, Pa. Filed Nov. 23, 1933.

VASCOLOY-RAMET

For Turning and Lathe Tools for Cutting Steel, Cast Iron, Brass, Bronze, Aluminum, Hard Rubber, Mica Compositions, Bakelite Porcelain, and Like Materials; Planer Tools for Cutting Such Materials; Drills and Boring Tools for Drilling and Boring Such Materials, and Also Stone: Saws Tipped with Hard Composition for Sawing Such Materials and Also for Sawing Abrasives, Asbestos Board, and Other Compositions, and Dies for Drawing Wire and the Like and for Wearing Surfaces.
Claims use since Sept. 17, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 343,455. KIMBLE GLASS COMPANY, Vineland, N. J. Filed Nov. 9, 1933.

BLUE LINE

The drawing is lined for blue.
For Laboratory Glassware.
Claims use since Sept. 8, 1933.

Ser. No. 344,642. THE A. C. GILBERT COMPANY, New Haven, Conn. Filed Dec. 8, 1933.

GILBERT

Applicant is the owner of registrations Nos. 133,132 and 137,237.
For Carpenters' Squares and Carpenters' Rules.
Claims use since July 1, 1913.

CLASS 27

Horological Instruments

Ser. No. 343,633. BULOVA WATCH COMPANY, New York, N. Y. Filed Nov. 13, 1933.

AMERICAN EAGLE

For Watches and Attached Bracelets Sold as a Unit.
Claims use since Sept. 7, 1932.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 344,998. WESTERN BOTTLE MANUFACTURING COMPANY, doing business as The Western Company, Chicago, Ill. Filed Dec. 15, 1933.

Economy

For Toothbrushes.
Claims use since Nov. 29, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 341,935. SILK-O-LITE MFG. CORP., New York, N. Y. Filed Sept. 21, 1933.

TRADE
Cortorelli
MARK

The words "Trade-Mark" are disclaimed apart from the mark as shown.
For Lamp Shades Made of Fabric.
Claims use since June 1, 1933.

CLASS 35

Belting, Hose, Machinery Packing, and Nonmetallic Tires

Ser. No. 344,616. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed Dec. 7, 1933.

Windsor

For Fan Belts.
Claims use since Nov. 1, 1933.

CLASS 37

Paper and Stationery

Ser. No. 344,670. OLD COLONY ENVELOPE COMPANY, Westfield, Mass. Filed Dec. 8, 1933.

Chesterlyn

For Mailing Envelopes, Unprinted Cut Sheets and Cards for Commercial, Wedding, and Social Announcements.
Claims use since May 4, 1933.

Ser. No. 344,687. STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Dec. 8, 1933.

Chesterlyn

For Flat Printing and Writing Paper in Cases, Cartons, and Packages.
Claims use since Nov. 8, 1933.

Ser. No. 344,787. KALLE & CO. AKTIENGESELLSCHAFT, Wiesbaden-Biebrich, Germany. Filed Dec. 11, 1933.

Nadir

For Adhesive Paper Strips Made of Transparent Cellulose Skin.
Claims use since Nov. 13, 1933.

Ser. No. 344,824. WILSON-JONES COMPANY, Chicago, Ill. Filed Dec. 11, 1933.

ZIPPIT CARRYALL

For Loose-Leaf Binders.
Claims use since Apr. 1, 1932.

CLASS 38

Prints and Publications

Ser. No. 343,495. DAILY RUNNING HORSE, INC., New York, N. Y. Filed Nov. 10, 1933.

THE DAILY
RACING GUIDE

For Daily Publication.
Claims use since Oct. 31, 1933.

Ser. No. 343,784. OUTDOOR PUBLISHING COMPANY, New York, N. Y. Filed Nov. 17, 1933.

☆American Nudism☆

For Section of a Periodical.
Claims use since Sept. 26, 1933.

Ser. No. 344,354. PERIODICAL HOUSE INC., New York, N. Y. Filed Dec. 1, 1933.

LOVE
FICTION MONTHLY

For Magazine Published Monthly and at Other Intervals.
Claims use since Nov. 9, 1933.

Ser. No. 344,635. CLOVER FARM STORES CORPORATION, Cleveland, Ohio. Filed Dec. 8, 1933.

THE FOUR-LEAF CLOVER

For Publication Published Weekly.
Claims use since Apr. 1, 1933.

Ser. No. 344,807. RED & WHITE CORPORATION, doing business as The Red & White Stores, Buffalo, N. Y. Filed Dec. 11, 1933.

News Flashes

For Periodical.
Claims use since Oct. 20, 1933.

Ser. No. 344,826. WOMEN'S WEAR COMPANY, New York, N. Y. Filed Dec. 11, 1933.

Merchandising Style

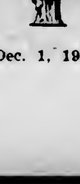
For Title of a Newspaper Page.
Claims use since July 18, 1932.

CLASS 39

Clothing

Ser. No. 328,162. CRADDOCK-TERRY COMPANY, doing business as Geo. D. Witt Shoe Company, Southern Department Craddock-Terry Company, Lynchburg, Va. Filed June 21, 1932.

LIBERTY ARCH



For Leather Shoes.
Claims use since Dec. 1, 1930.

Ser. No. 341,278. EPHRATA SHOE COMPANY, INC., Ephrata, Pa. Filed Sept. 2, 1933.



The drawing is lined for orange, but no claim is made to such color. The name "Bill Budd" is disclaimed apart from the mark as shown.

For Shoes of Leather, Fabric, and Rubber and Combinations Thereof.

Claims use since June 10, 1931.

Ser. No. 342,150. CHARLES H. BROWN, New York, N. Y. Filed Oct. 5, 1933.



For Shoes and Boots Made of Leather, Rubber, or Canvas and Combinations of these materials.

Claims use since Sept. 1, 1930.

Ser. No. 342,480. HOFHEIMER'S, INC., Norfolk, Richmond, and Portsmouth, Va. Filed Oct. 14, 1933.



No claim is made to the words "Safety", "Service", and "Shoes" apart from the mark shown.

For Shoes of Leather, Rubber, Fabric, and/or Combinations Thereof.

Claims use since Dec. 3, 1912.

Ser. No. 343,877. PECK & PECK, New York, N. Y. Filed Nov. 20, 1933.



The picture is fanciful. The lining indicates the color gold, the color in which the mark is used. No claim is made to the outline of the label or carton.

For Hosiery, Gloves of Leather and/or Fabric, Sweaters, Scarfs, and Neckties.

Claims use since Aug. 1, 1933.

Ser. No. 344,173. BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Nov. 27, 1933.

BEDFORD SQUARE

For Shoes Made of Leather, Cloth, Canvas, or Combinations Thereof.

Claims use since Nov. 14, 1933.

Ser. No. 344,298. STIX, BAER AND FULLER COMPANY, St. Louis, Mo. Filed Nov. 29, 1933.

CORINNE

For Wearing Apparel for Women, Misses, and Girls—Namely, Wool Suits, Knit Suits, Camping and Bathing Suits; Dress, Sport, Leather, and Rain Coats; Evening Wraps, House and Street Dresses, Skirts, Sweaters, Beach Pajamas, Riding Habits; Blouses of Silk, Cotton, and Knit Material and Combinations Thereof; and Felt, Straw, and Cloth Hats.

Claims use since Oct. 1, 1933.

Ser. No. 344,948. MOE SCHWARTZ CO., New York, N. Y. Filed Dec. 14, 1933.



For Ladies' and Children's Wash Dresses.

Claims use since Oct. 14, 1933.

Ser. No. 344,982. NEIMAN-MARCUS COMPANY, Dallas, Tex. Filed Dec. 15, 1933.

Pietro

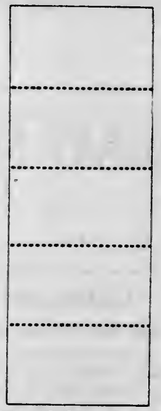
For Women's Apparel—Namely, Coats and Suits.

Claims use since Jan. 15, 1932.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 335,644. MILFORD TEXTILE CORPORATION, Milford, N. H. Filed Mar. 14, 1933.



Trade-mark consists of four green warp threads appearing as parallel lines at regular intervals across the fabric. No claim is made to the representation of the goods.

For Rough Heavy Piece Goods Known as Tailors' Padding, Made of Flax, Hemp, or Jute.

Claims use since 1925.

Ser. No. 341,192. CALLAWAY MILLS, Lagrange, Ga. Filed Aug. 31, 1933.



For Knit and Woven Piece Goods and Pile Fabrics Made of Cotton, Wool, Rayon, and/or Silk Intended for Use in Making Clothing, Upholstery, Draperies, and Household Linens; Also Untreated Cloth Used in Making Advertising Signs and for Wiping Purposes; All Kinds of Duck and Similar Fabrics for Domestic, Commercial, Mechanical, and Construction Use; Fabrics for Making Vehicle Tires, Hose, and Belting; Cover Cloth Sheeting, Duck, Netting, and Knitted Padding for Laundry Use; Cement Curing Fabric, Cider and Oil Press Cloths, Filter Fabrics, Fruit and Vegetable Bag Fabrics, Headlining and Side Wall and Upholstery Fabrics for the Automobile Trade, etc.; Horse Blanket Fabrics; Household Linens—Namely, Bath Mats, Stool and Seat Covers, Bed Spreads, Table Cloths, Table Napkins, Towels and Wash Cloths, Terry Cloth; Beach Mats, Rugs; and Heavy Woven Tape for Mechanical Uses.

Claims use since June 1, 1933.

Ser. No. 341,364. HORNER BROTHERS WOOLEN MILLS, Eaton Rapids, Mich. Filed Sept. 6, 1933.

"ACEFELT"

For Woven and Knitted Fabrics Composed of Wool, Alpaca, Llama, Camel's-Hair, Mohair, Silk, Cotton, Linen, Rayon, and Combinations Thereof Used Particularly for Overcoatings, Cloakings, Suitings, and Upholstery.

Claims use since June 23, 1932.

Ser. No. 341,366. HORNER BROTHERS WOOLEN MILLS, Eaton Rapids, Mich. Filed Sept. 6, 1933.

"PERMANAP"

For Woven and Knitted Fabrics Composed of Wool, Alpaca, Llama, Camel's-Hair, Mohair, Silk, Cotton, Linen, Rayon, and Combinations Thereof Used Particularly for Overcoatings, Cloakings, Suitings, and Upholstery.

Claims use since June 23, 1932.

Ser. No. 341,367. HORNER BROTHERS WOOLEN MILLS, Eaton Rapids, Mich. Filed Sept. 6, 1933.

"WARM DEW"

For Textile Fabrics Composed of Wool, Alpaca, Llama, Camel's-Hair, Mohair, Silk, Cotton, Linen, Rayon, and Combinations Thereof, Used Particularly for Overcoatings, Cloakings, Suitings, and Upholstery.

Claims use since June 23, 1932.

Ser. No. 342,663. THE "OLD BLEACH" LINEN CO. LTD., New York, N. Y. Filed Oct. 19, 1933.

'SEALMASTER'

For Linen Piece Goods, White and Colored; Linen Tablecloths, Napkins, Towels, Sheets, and Pillowcases.

Claims use since Sept. 20, 1933.

Ser. No. 343,145. BELLMAN BROOK BLEACHERY CO., Fairview, N. J. Filed Nov. 1, 1933.

Belorganda

For Cotton Goods in the Piece.

Claims use since Oct. 16, 1933.

Ser. No. 343 278. GARFINKEL & RITTER, New York, N. Y. Filed Nov. 6, 1933.

CREPE PARLEENE

TRADE MARK

Applicant disclaims the right to the exclusive use of the word "Crepe" and "Trade Mark".

For Textile Piece Goods Made of Synthetic Yarn.

Claims use since Sept. 6, 1933.

Ser. No. 344,101. MILBANK, LEAMAN & Co., New York, N. Y. Filed Nov. 24, 1933.

"LINAIR"

For Woven Textile Fabric in the Nature of a Worsted and Linen Material.
Claims use since Oct. 30, 1933.

Ser. No. 344,466. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Filed Dec. 5, 1933.

Corailles

For Pile Fabrics in the Piece.
Claims use since Nov. 28, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 328,100. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed June 18, 1932.

Kleinerts-Acushnet

Applicant disclaims the word "Acushnet" except as used in connection with the other features of the mark as shown. Applicant is owner of Reg. Nos. 136,843 and 136,844 effected under the 10-year proviso.
For Hot-Water Bottles.
Claims use since Jan. 8, 1932.

Ser. No. 343,457. KIMBLE GLASS COMPANY, Vineland, N. J. Filed Nov. 9, 1933.

AUTOPOULE

For Medical or Surgical Fluid-Ejecting Device.
Claims use since Sept. 15, 1933.

Ser. No. 343,816. CADA COMPANY, INC., New York, N. Y. Filed Nov. 18, 1933.

CADA

For Permanent-Waving Apparatus and Accessories—Namely, Protectors, Curling Rods, Keys, Stands, Control Units, Clamps, and Underfelts, Permanent-Waving Pads and Electrical Internal-Heating Units for Insertion into Curling Rods so as to Develop Heat Therein Effective to Create Steam from a Solution Applied to Hair Wound on Such Curling Rods in Processes of Permanent Waving Hair.
Claims use since Sept. 11, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 343,221. NESBITT FRUIT PRODUCTS, INC., Los Angeles, Calif. Filed Nov. 3, 1933.

DOUBLCO

For Nonalcoholic Maltless Syrups Used in the Preparation of Soft Drinks.
Claims use since Oct. 17, 1933.

Ser. No. 343,222. NESBITT FRUIT PRODUCTS, INC., Los Angeles, Calif. Filed Nov. 3, 1933.

SINGLCO

For Nonalcoholic Maltless Syrups Used in the Preparation of Soft Drinks.
Claims use since Oct. 2, 1933.

Ser. No. 343 884. THE STAMFORD PARK WINE CO. LIMITED, Stamford, Ontario, Canada. Filed Nov. 20, 1933.

NIAGARA MAID

The drawing is lined for purple.
For Grape Juice.
Claims use since Feb. 1, 1932.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 314,115. HAMBLIN-METCALFE, LIMITED, Kitchener, Ontario, Canada. Filed May 2, 1931.



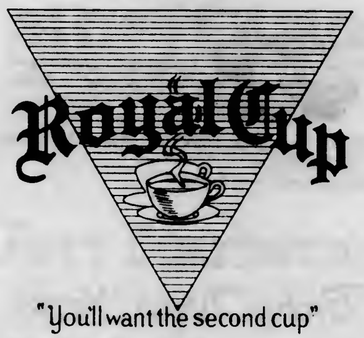
The words "Eat It! Drink It! For Your Good Health", "Manufactured by", and "Kitchener, Canada" are disclaimed apart from the mark.
For Chocolate and Chocolate Confectionery—Namely, Chocolate Bars.
Claims use since Feb. 2, 1931.

Ser. No. 331,446. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Oct. 21, 1932. Under section 5b of the act of 1905 as amended in 1920.

FLEISCHMANN'S

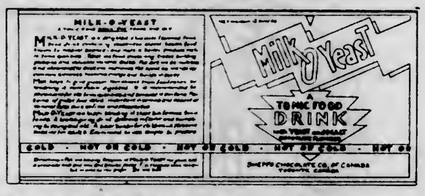
For Dough Improver—i. e., a Composition or Compound Used as an Ingredient of Bread to Improve the Quality Thereof.
Claims use since 1924.

Ser. No. 331,722. BATTERTON COFFEE CO. INC., Birmingham, Ala. Filed Oct. 31, 1932.



The drawing is lined for blue.
For Coffee.
Claims use since June 15, 1932.

Ser. No. 331,754. EDWARD ANDREW SHEPPARD, Toronto, Ontario, Canada. Filed Oct. 31, 1932.



The words "Milk" and "Yeast" and all other wording on the label and the representation of the label are disclaimed apart from the mark shown on the drawing.
For Chocolate Food Beverages.
Claims use since Oct. 29, 1931.

Ser. No. 332,432. WILLIAMS BAKERY, Scranton, Pa. Filed Nov. 23, 1932.



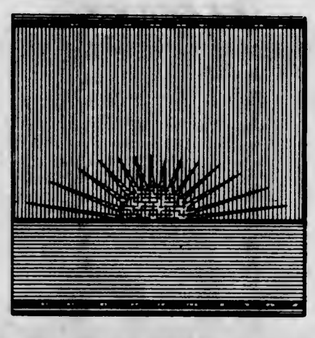
No claim is made to the word "Cake" apart from the mark shown.
For Cake.
Claims use since November, 1929.

Ser. No. 332,605. SUN-STATE FRUIT CO., Los Angeles, Calif. Filed Nov. 29, 1932.

SUN-STATE

For Dried Fruit.
Claims use since Mar. 13, 1931.

Ser. No. 333,083. ROYAL BAKING POWDER COMPANY, New York, N. Y. Filed Dec. 14, 1932.



The drawing is lined to represent the colors red, blue, and yellow, which are claimed as features of the mark.
For Baking Powder.
Claims use since Oct. 23, 1928.

Ser. No. 333,446. WILLIAMS BAKERY, Scranton, Pa. Filed Dec. 28, 1932.



No claim is made to the word "Holsum" apart from the mark shown.
For Loaf Bread.
Claims use since May, 1924.

Ser. No. 333,447. WILLIAMS BAKERY, Scranton, Pa. Filed Dec. 28, 1932.



No claim is made to the words "Holsum Sliced" apart from the mark shown.
For Sliced Loaf Bread.
Claims use since July, 1929.

Ser. No. 338,136. THE COLORADO MILLING & ELEVATOR CO., Denver, Colo. Filed May 23, 1933.



For Self-Rising Flour.
Claims use since April, 1931.

Ser. No. 338,797. SEABOARD PRODUCE DISTRIBUTORS, INC., Onley, Va. Filed June 12, 1933.



The word "Brand" is disclaimed apart from the other features of the mark shown.
For Fresh Vegetables—Namely, White Potatoes, Sweet Potatoes, Lima Beans, Snap Beans, Tomatoes, and Onions; and Fresh Fruits—Namely, Peaches, Apples, and Strawberries.
Claims use since June 5, 1933.

Ser. No. 340,074. DEMOS N. ZACHARAKOPOULOS, New York, N. Y. Filed July 21, 1933.



Applicant disclaims all words as shown on the drawing apart from the mark.
For Cultured Fresh Whole Milk.
Claims use since Sept. 26, 1929.

Ser. No. 341,711. BURNAND & COMPANY, INC., Los Angeles, Calif. Filed Sept. 19, 1933.



For Fresh Deciduous and Citrus Fruits, Fresh Grapes, and Fresh Vegetables.
Claims use since May 1, 1933.

Ser. No. 341,785. BORDEN'S CHEESE COMPANY, INC., Chicago, Ill. Filed Sept. 22, 1933.

Baby New York

For Cheese.
Claims use since Sept. 8, 1933.

Ser. No. 342,448. PURE MILK DAIRY PRODUCTS, INC., Elgin, Ill. Filed Oct. 13, 1933.



For Cheese.
Claims use since Oct. 1, 1933.

Ser. No. 342,450. PURE MILK DAIRY PRODUCTS, INC., Elgin, Ill. Filed Oct. 18, 1933.



All wording except "Pure Milk Dairy Products Inc." and "Ados" is disclaimed apart from the other features of the mark shown.
For Cheese.
Claims use since Oct. 1, 1933.

Ser. No. 342,915. M & R DIETETIC LABORATORIES, INC., Columbus, Ohio. Filed Oct. 25, 1933.

SOFKURD

For Modified Milk in Powdered Form—Namely, Whole Sweet Milk with Added Acid and Slightly Reduced Calcium and Phosphorus.
Claims use since Oct. 15, 1932.

Ser. No. 343,409. GEO. RASMUSSEN CO., Chicago, Ill. Filed Nov. 8, 1933.

Fort Dearborn

For Crackers, Canned Fruit, Canned Vegetables, Salad Dressing, and Pickles.
Claims use since 1890.

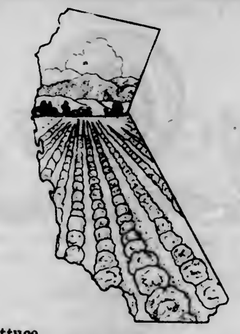
Ser. No. 343,779. LANCASTER INC., Los Angeles, Calif. Filed Nov. 17, 1933.

ASTRA-D

For Vitamin D Concentrate to be Added to Various Food Products.
Claims use since Oct. 1, 1933.

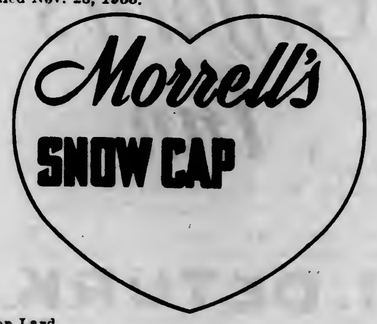
Ser. No. 343,850. CALIFORNIA PRODUCE DISTRIBUTORS, INC., Los Angeles, Calif. Filed Nov. 20, 1933.

CAL-LETUS



For Fresh Lettuce.
Claims use since Oct. 17, 1933.

Ser. No. 344,032. JOHN MORRELL & CO., Ottumwa, Iowa. Filed Nov. 23, 1933.



For Lard.
Claims use since January, 1900.

Ser. No. 344,370. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed Dec. 1, 1933.



The drawing is lined for red and green.
For Chewing Gum, and Particularly Chewing Gum in the Form of Sugar-Coated Pellets.
Claims use since Nov. 20, 1933.

Ser. No. 344,371. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed Dec. 1, 1933.



For Chewing Gum, and Particularly Chewing Gum in the Form of Sugar-Coated Pellets.
Claims use since Nov. 20, 1933.

Ser. No. 344,727. HARRY H. MILLER, doing business as Tri State Candy Company, Ashland, Ky. Filed Dec. 9, 1933.

TRI STATE CANDY COMPANY

For Candy.
Claims use since Feb. 8, 1932.

Ser. No. 344,811. SIL'S FOOD CO., Oakland, Calif. Filed Dec. 11, 1933.

SIL'S

For Canned Fruits, Canned Vegetables, Canned Fish, Canned Milk.
Claims use since Dec. 2, 1933.

CLASS 47

Wines

Ser. No. 340,639. GIUSEPPE BERNARDINO CARPANO, Turin, Italy. Filed Aug. 12, 1933.



No claim is made to any of the notations appearing on the drawing with the exception of the name of the applicant firm.
For Wines and Vermouth.
Claims use since Aug. 22, 1889.

Ser. No. 343,139. H. SICHEL & SONS LIMITED, London, England. Filed Nov. 1, 1933.



The portrait is fanciful. Exclusive right is not claimed for the words "Red Seal."
For German Wines.
Claims use since July, 1930.

Ser. No. 343,728. THE FINSBURY DISTILLERY CO. LIMITED, London, England. Filed Nov. 16, 1933.



No claim is made to the exclusive use of the words "Original Green Ginger Wine."
For Wine.
Claims use since Sept. 13, 1886.

Ser. No. 343,852. CANADIAN SPARKLING PRODUCTS LIMITED, Oakville, Ontario, Canada. Filed Nov. 20, 1933.



CANADIAN SPARKLING PRODUCTS LIMITED

No claim is made to any of the words on the drawing apart from the mark as shown.
For Wines.
Claims use since May 1, 1930.

Ser. No. 343,858. DOMINION WINE GROWERS LIMITED, Oakville, Ontario, Canada. Filed Nov. 20, 1933.

Château-Gai

The drawing is lined for gold.
For Wines.
Claims use since Apr. 1, 1931.

Ser. No. 343,918. ELLENA BROS., Cucamonga and Etiwanda, Calif. Filed Nov. 21, 1933.

REGINA

For Wines.
Claims use since May 1, 1933.

Ser. No. 344,398. H. & C. J. FEIST LTD., London, England, and Villa Nova de Gaya, Portugal. Filed Dec. 2, 1933.



No claim is made to the words "Trade Mark."
For Wine.
Claims use since 1886.

Ser. No. 344,675. PIERRE-BONARD, INC., New York, N. Y. Filed Dec. 8, 1933.



No claim is made to exclusive use of the words "Superfine Vintage" apart from the mark shown.
For Wines.
Claims use since September, 1933.

Ser. No. 345,044. L. BAMBERGER & CO., Newark, N. J. Filed Dec. 18, 1933.

Gifford's Inn

For Wines.
Claims use since Dec. 12, 1933.

Ser. No. 345,056. WM. HOELSCHER & CO., San Francisco, Calif. Filed Dec. 18, 1933. Under 10-year proviso.

I. DE TURK

For Wines.
Claims use since 1878.

Ser. No. 345,077. SONTAG CHAIN STORES CO. LTD., doing business as Bontelli Vintage Company, Los Angeles, Calif. Filed Dec. 18, 1933.

BONTELLI

For Wines.
Claims use since May 26, 1933.

CLASS 48

Malt Beverages and Liquors

Ser. No. 339,412. VERNON BREWING COMPANY, Los Angeles, Calif. Filed June 30, 1933.

ANGELUS

For Beer with Not More Than the Legal Alcoholic Content.
Claims use since June 8, 1933.

Ser. No. 339,790. RITZ BREWING COMPANY, San Diego, Calif. Filed July 15, 1933.

ARCTIC

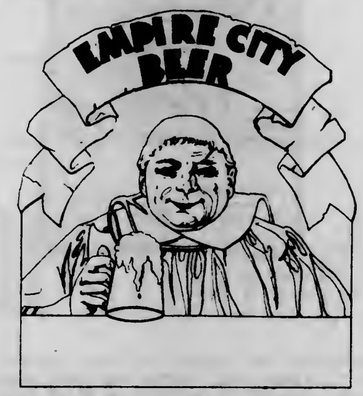
For Beer with Not More Than the Legal Alcoholic Content.
Claims use since June 12, 1933.

Ser. No. 339,829. W. MARGULIS, doing business as Catalina Brewing Co., Los Angeles, Calif. Filed July 17, 1933.

AVALON

For Beer with Not More Than the Legal Alcoholic Content.
Claims use since June 23, 1933.

Ser. No. 343,498. EMPIRE CITY BREWING CO. INC., Brooklyn, N. Y. Filed Nov. 10, 1933.



No claim is made to words "Empire City Beer."
For Beer, Ale, and Porter.
Claims use since Oct. 23, 1933.

Ser. No. 344,423. BAVARIA- UND ST. PAULI-BRAUEREI, Hamburg, Germany. Filed Dec. 4, 1933.



No claim is made to the word "Altona".
For Malt Beverage of Not More Than Legal Alcoholic Content.
Claims use since May, 1898.

Ser. No. 344,426. BAVARIA- UND ST. PAULI-BRAUEREI, Hamburg, Germany. Filed Dec. 4, 1933. Under 10-year proviso.

HAMBURGER LÖWENBRÄU

For Malt Beverage of Not More Than Legal Alcoholic Content.
Claims use since May, 1893.

Ser. No. 344,597. THE MIAMI VALLEY BREWING CO., Dayton, Ohio. Filed Dec. 7, 1933.

"Nick" Thomas

For Malt Beverages Having an Alcoholic Content Not in Excess of That Permitted by Law.
Claims use since Dec. 1, 1913.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 344,076. EDMUND MELHADO & CO., INC., New York, N. Y. Filed Nov. 23, 1933.



The drawing is lined for gold. No claim is made to the words "Fine Old Jamaica Rum" and "Trade Mark" apart from the mark shown.

For Rum and Other Spirituous Liquors.

Claims use since Sept. 15, 1933.

Ser. No. 344,077. EDMUND MELHADO & CO., INC., New York, N. Y. Filed Nov. 23, 1933.



The drawing is lined for green. No claim is made to the words "Fine Old Jamaica Rum, Trade Mark" nor to the representation of a label colored green apart from the mark as shown.

For Rum and Other Spirituous Liquors.

Claims use since Sept. 15, 1933.

Ser. No. 344,078. EDMUND MELHADO & CO., INC., New York, N. Y. Filed Nov. 23, 1933.



The drawing is lined for green and gold. No claim is made to the words "Finest Old Jamaica Rum" and "Trade Mark" apart from the mark shown.

For Rum and Other Spirituous Liquors.

Claims use since 1825.

Ser. No. 344,540. WILLIAM F. MCCOY, doing business as Bill McCoy and/or The Real McCoy, Palm Beach, Fla. Filed Dec. 6, 1933.

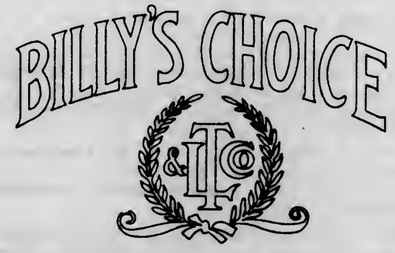


The portrait and signature are those of applicant. The words "The Real McCoy" are in applicant's handwriting. No claim is made to the exclusive use of the words "None Genuine Without This Signature."

For Whisky.

Claims use since Dec. 4, 1933.

Ser. No. 344,560. W. G. BOND, INC., Baltimore, Md. Filed Dec. 7, 1933.



For Rye Whisky.

Claims use since 1916.

Ser. No. 344,591. WILLIAM GRIGOR & SON, Inverness, Scotland. Filed Dec. 7, 1933.

GLENDROSTAN

For Whisky.

Claims use since 1925.

Ser. No. 344,643. GLENMORE DISTILLERIES CO., Owensboro, Ky. Filed Dec. 8, 1933.



For Whisky.

Claims use since Sept. 20, 1933.

Ser. No. 344,645. JOHN HENRY HARRIS, Cleveland, Ohio. Filed Dec. 8, 1933.

Waldorf

For Whiskies.

Claims use since Oct. 1, 1933.

Ser. No. 344,669. OLD COLLINS COMPANY, INC., DISTILLERS, New York, N. Y. Filed Dec. 8, 1933.



The representation of the man's face is fanciful, and the words "Gin" and "Dry" are disclaimed apart from the mark as shown.

For Gin.

Claims use since Oct. 25, 1933.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 340,212. BALL BROTHERS COMPANY, Muncie, Ind. Filed July 29, 1933.

VACU-SEAL

No claim is made to the word "Seal" apart from the mark as shown.

For Jar Caps.

Claims use since Apr. 28, 1933.

Ser. No. 343,190. "SOLO" ZÜNDWAREN -UND CHEMISCHE FABRIKEN ACT.-GES., Vienna, Austria. Filed Nov. 2, 1933.



The words "Reg. Trade Mark", "Made in Austria", "Warm Tube Slightly During Cool Weather and Pull Ribbon Slowly", "Proven All Over the World" and "Fly Coil" are disclaimed apart from the mark shown.

For Fly Paper.

Claims use since May 1, 1933.

Ser. No. 344,937. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Dec. 14, 1933.

"STURDI-FLEX"

For Rubber Waterproofed Sheeting.

Claims use since Nov. 10, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JANUARY 30, 1934

309,718. WHISKEY. EDWARD L. MAHONEY, doing business as Edward L. Mahoney and Company, Baltimore, Md.
Filed October 10, 1933. Serial No. 342,316. PUBLISHED NOVEMBER 21, 1933. Class 49.

309,719. WHISKEY. EDWARD L. MAHONEY, doing business as Edward L. Mahoney and Company, Baltimore, Md.
Filed October 7, 1933. Serial No. 342,228. PUBLISHED NOVEMBER 21, 1933. Class 49.

309,720. WHISKEY. EDWARD L. MAHONEY, doing business as Edward L. Mahoney and Company, Baltimore, Md.
Filed October 7, 1933. Serial No. 342,230. PUBLISHED NOVEMBER 21, 1933. Class 49.

309,721. WHISKEY. EDWARD L. MAHONEY, doing business as Edward L. Mahoney and Company, Baltimore, Md.
Filed October 7, 1933. Serial No. 342,231. PUBLISHED NOVEMBER 21, 1933. Class 49.

309,722. OLEOMARGARINE. THE BEST FOODS, INC., New York, N. Y., and Chicago, Ill.
Filed June 30, 1933. Serial No. 339,383. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,723. ROWING MACHINES AND SPRING EXERCISING DEVICES. DUNBAR-GIBSON, INCORPORATED, New York, N. Y.
Filed June 30, 1933. Serial No. 339,390. PUBLISHED NOVEMBER 21, 1933. Class 22.

309,724. HANDLES MADE PRINCIPALLY OF LEATHER FOR SUITCASES, ATTACHÉ CASES, MUSIC CASES, SPORTS BAGS, PORTABLE GRAMOPHONES, AND SIMILAR CONTAINERS. BARROW, HEPBURN & GALE LIMITED, London, England.
Filed June 22, 1933. Serial No. 339,095. PUBLISHED NOVEMBER 14, 1933. Class 3.

309,725. TOMATO PASTE. SCLAFANI BROTHERS, Brooklyn, N. Y.
Filed June 22, 1933. Serial No. 339,124. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,726. BATTERIES. PUBLIC SERVICE TIRE & RUBBER CO. INC., Brooklyn, N. Y.
Filed August 11, 1933. Serial No. 340,623. PUBLISHED NOVEMBER 14, 1933. Class 21.

309,727. SEAT CUSHIONS, CHAIR CUSHIONS, CAMPING AND SLEEPING EQUIPMENT—NAMELY, MATTRESSES, PILLOWS, SLEEPING BAGS, BEACH ROLLS AND MATS, DOG COUCHES, DECK CHAIR CUSHIONS, CANOE AND MOTOR BOAT MATS. THE AMERICAN PAD & TEXTILE COMPANY, Greenfield, Ohio.
Filed August 19, 1933. Serial No. 340,823. PUBLISHED NOVEMBER 21, 1933. Class 32.

309,728. PADS FOR CORNS, CALLOUSES, BUNIONS. FRANK C. KIESNER, doing business as Qurit Mfg. Co., Minneapolis, Minn.
Filed July 29, 1933. Serial No. 340,227. PUBLISHED NOVEMBER 28, 1933. Class 44.

309,729. SILK, RAYON, AND WOOL FABRICS, AND COMBINATIONS THEREOF SOLD IN THE PIECE. RAYMOND D. WHITMORE, New York, N. Y.
Filed August 1, 1933. Serial No. 340,298. PUBLISHED NOVEMBER 14, 1933. Class 42.

309,730. PORTABLE TANK WATER SOFTENERS OF THE TYPE EMPLOYING A BASE EXCHANGE MEDIUM. PURE WATER SERVICE CORPORATION OF WESTCHESTER COUNTY, Hastings-on-Hudson, N. Y.
Filed July 20, 1933. Serial No. 339,946. PUBLISHED NOVEMBER 21, 1933. Class 13.

309,731. PRE-LUBRICATED MACHINERY BEARINGS. NOLU OILLESS BEARING COMPANY, Philadelphia, Pa.
Filed July 24, 1933. Serial No. 340,048. PUBLISHED NOVEMBER 21, 1933. Class 23.

309,732. GASOLINE. THE KANOTEX REFINING COMPANY, Arkansas City, Kans.
Filed July 11, 1933. Serial No. 339,631. PUBLISHED NOVEMBER 14, 1933. Class 15.

309,733. COPPER-NICKEL ALLOYS AND SHEET METAL AND WIRE MADE THEREFROM. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn.
Filed July 11, 1933. Serial No. 339,660. PUBLISHED NOVEMBER 21, 1933. Class 14.

309,734. OLEOMARGARINE. NORTHERN COCOANUT PRODUCTS CORPORATION, New York, N. Y., and Chicago, Ill.
Filed June 30, 1933. Serial No. 339,404. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,735. KITCHEN UTENSILS, NAMELY, BASTING SPOONS, MIXING SPOONS, ETC. UTILITY MANUFACTURING COMPANY, INCORPORATED, Baltimore, Md.
Filed July 10, 1933. Serial No. 339,616. PUBLISHED SEPTEMBER 12, 1933. Class 23.

309,736. TAPE LINES, KITCHEN SCALES, DRESS PATTERNS, AND COMBINATION SQUARES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 31, 1933. Serial No. 336,803. PUBLISHED NOVEMBER 21, 1933. Class 26.

309,737. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES. DEAN RUBBER MANUFACTURING COMPANY, North Kansas City, Mo.
Filed April 6, 1933. Serial No. 336,500. PUBLISHED NOVEMBER 21, 1933. Class 44.

309,738. CANNED FRUITS. APPLE GROWERS ASSOCIATION, Hood River, Oreg.
Filed February 14, 1933. Serial No. 334,951. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,739. LEATHER MACHINERY BELTING. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed February 21, 1933. Serial No. 335,163. PUBLISHED NOVEMBER 21, 1933. Class 35.

309,740. CHOCOLATE, CHOCOLATE COATINGS, AND OTHER CHOCOLATE AND CHOCOLATE COATINGS FOR ICE CREAM AND OTHER CONFECTIONS. GOOD HUMOR CORPORATION OF AMERICA, Brooklyn, N. Y.
Filed September 7, 1932. Serial No. 330,162. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,741. CONCENTRATED COFFEE IN LIQUID FORM. BAKER EXTRACT CO., Springfield, Mass.
Filed December 9, 1932. Serial No. 332,908. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,742. MEATS—NAMELY, HAM. VITA FOOD PRODUCTS, INCORPORATED, New York, N. Y.
Filed May 27, 1932. Serial No. 327,584. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,743. CARPET TACKS. ATLAS TACK CORPORATION, Fairhaven, Mass.
Filed August 27, 1932. Serial No. 329,883. PUBLISHED NOVEMBER 21, 1933. Class 13.

309,744. TEXTILE RUGS, CARPETS, AND TAPESTRIES. MEHDI DILMAGHANI & CO., INC., New York, N. Y.
Filed April 14, 1930. Serial No. 298,880. PUBLISHED JANUARY 26, 1932. Class 42.

309,745. FRESH DECIDUOUS FRUIT. TRAVERS BROS., Watsonville, Calif.
Filed April 3, 1931. Serial No. 312,933. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,746. MALT. DEUTSCH FÉLE KÖRÁNYAI MALÁTAGYÁR R. T. AT BUDAPEST, Budapest, Hungary.
Filed June 1, 1933. Serial No. 338,404. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,747. POWDERED PUDDING DESSERTS SO PREPARED AS TO BE READY FOR COOKING WITH MILK TO BE SUBSEQUENTLY CHILLED AND SERVED. REAL FRUIT FOODS, New York, N. Y.
Filed June 8, 1933. Serial No. 338,665. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,748. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. JULIUS BÖTZOW BRAUEREI-AKTIENGESELLSCHAFT, Berlin, Germany.
Filed May 17, 1933. Serial No. 337,910. PUBLISHED NOVEMBER 21, 1933. Class 48.

309,749. EGGS. DRAPER EGG PRODUCERS ASSOCIATION, INC., Draper, Utah.
Filed May 29, 1933. Serial No. 338,314. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,750. GRASS SHEARS, SHEARS, HEDGE SHEARS, CLIPPERS, SCISSORS, KNIVES, AND PARTS THEREOF. DUNBAR-GIBSON, INCORPORATED, New York, N. Y.
Filed June 30, 1933. Serial No. 339,393. PUBLISHED NOVEMBER 21, 1933. Class 28.

309,751. DENTURES, ARTIFICIAL TEETH, DENTAL CEMENT, AND INDIVIDUAL DENTAL PARTS OR SETS OF PARTS UTILIZED IN THE CONSTRUCTION OF PLATES. VAL-VAC DENTURE, INC., New York, N. Y.
Filed April 15, 1933. Serial No. 336,846. PUBLISHED NOVEMBER 28, 1933. Class 44.

309,752. BRONZE CINERARY URNS. GORHAM MANUFACTURING COMPANY, Providence, R. I.
Filed October 4, 1933. Serial No. 342,129. PUBLISHED NOVEMBER 21, 1933. Class 2.

309,753. OPHTHALMIC LENSES, BINOCULARS, OBJECTIVE LENSES. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed September 30, 1933. Serial No. 342,024. PUBLISHED NOVEMBER 21, 1933. Class 26.

309,754. SAUSAGE AND HAMBURGER CASINGS. THE VISKING CORPORATION, Chicago, Ill.
Filed September 30, 1933. Serial No. 342,050. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,755. EXPLOSIVES. DYNAMIT-ACTIEN-GESELLSCHAFT VORM. ALFRED NOBEL & CO., HAMBURG, Hamburg, Germany.
Filed October 3, 1933. Serial No. 342,106. PUBLISHED NOVEMBER 21, 1933. Class 9.

309,756. CHEESE. THE SCHRATTER CORPORATION, New York, N. Y.
Filed October 5, 1933. Serial No. 342,167. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,757. OIL BURNERS AND PARTS THEREOF. LIBERTY OIL BURNER COMPANY, INCORPORATED, Hartford, Conn.
Filed October 5, 1933. Serial No. 342,159. PUBLISHED NOVEMBER 21, 1933. Class 34.

309,758. OIL BURNING BOILERS FOR HEATING AND DOMESTIC HOT WATER USE. PETROLEUM HEAT AND POWER COMPANY, New York, N. Y.
Filed October 6, 1933. Serial No. 342,198. PUBLISHED NOVEMBER 21, 1933. Class 34.

309,759. LAUNDRY WASHING MACHINES. EASY WASHING MACHINE CORPORATION, Syracuse, N. Y.
Filed October 6, 1933. Serial No. 342,178. PUBLISHED NOVEMBER 21, 1933. Class 24.

309,760. FRESH CITRUS FRUITS. JOS. EICHELBERGER & COMPANY, Eustis, Fla.
Filed October 7, 1933. Serial No. 342,219. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,761. OIL BURNING BOILERS FOR HEATING AND DOMESTIC HOT WATER USE. PETROLEUM HEAT AND POWER COMPANY, New York, N. Y.
Filed October 6, 1933. Serial No. 342,199. PUBLISHED NOVEMBER 21, 1933. Class 34.

309,762. SPRING WIRE. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed October 9, 1933. Serial No. 342,255. PUBLISHED NOVEMBER 21, 1933. Class 14.

309,763. SPRING WIRE. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed October 9, 1933. Serial No. 342,254. PUBLISHED NOVEMBER 21, 1933. Class 14.

309,764. COTTON BATTING. INTERSTATE DEPARTMENT STORES, INC., New York, N. Y.
Filed October 9, 1933. Serial No. 342,272. PUBLISHED NOVEMBER 14, 1933. Class 1.

309,765. FRESH CITRUS FRUITS. JOS. EICHELBERGER & COMPANY, Eustis, Fla.
Filed October 9, 1933. Serial No. 342,264. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,766. DENTAL FILLING GOLD. BAKER & COMPANY, INC., Newark, N. J.
Filed October 11, 1933. Serial No. 342,333. PUBLISHED NOVEMBER 21, 1933. Class 44.

309,767. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASE. WILLARD H. REED, doing business as W. H. Reed & Co., Atlanta, Ga.
Filed October 10, 1933. Serial No. 342,319. PUBLISHED NOVEMBER 21,, 1933. Class 44.

309,768. GAME COMPRISING A BALL AND BAT INTERCONNECTED BY AN ELASTIC THREAD. LOUIS MARX & COMPANY, New York, N. Y.
Filed October 14, 1933. Serial No. 342,483. PUBLISHED NOVEMBER 21, 1933. Class 22.

309,769. CANNED VEGETABLES. MAMMOTH SPRINGS CANNING COMPANY, Sussex, Wis.
Filed October 13, 1933. Serial No. 342,446. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,770. RIBBON COMPOSED OF COTTON AND CELLULOSE COMPOSITION MATERIAL FOR TYING PACKAGES AND OTHER USES. FREYDBERG BROTHERS, INCORPORATED, New York, N. Y.
Filed October 18, 1933. Serial No. 342,611. PUBLISHED NOVEMBER 21, 1933. Class 7.

309,771. METALLIC CARTRIDGES AND METALLIC SHOT SHELLS. GAMBLE STORES, INCORPORATED, Minneapolis, Minn.
Filed October 16, 1933. Serial No. 342,585. PUBLISHED NOVEMBER 21, 1933. Class 9.

309,772. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. CHARLES H. KUTZ, doing business as The Bushkill Products Company, Easton, Pa.
Filed September 9, 1933. Serial No. 341,458. PUBLISHED NOVEMBER 21, 1933. Class 48.

309,773. CANNED FRUITS, CANNED VEGETABLES, CANNED OR RIPE OLIVES, MAYONNAISE, AND KETCHUP. GEO. E. FREEBY, Lehighton, Pa.
Filed September 8, 1933. Serial No. 341,428. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,774. TABLE OR BOARD GAMES. JOHN J. SLATTERY, Jr., Washington, D. C.
Filed September 11, 1933. Serial No. 341,500. PUBLISHED NOVEMBER 21, 1933. Class 22.

309,775. POWER TRANSMISSION BELTS. THE REPUBLIC RUBBER COMPANY, Youngstown, Ohio.
Filed September 11, 1933. Serial No. 341,495. PUBLISHED NOVEMBER 21, 1933. Class 35.

309,776. MACHINERY NEEDLES. THE FURRIERS' SUPPLY CORPORATION, New York, N. Y.
Filed September 12, 1933. Serial No. 341,522. PUBLISHED NOVEMBER 21, 1933. Class 23.

309,777. TAILORED SEAT COVERS. THE S. E. HYMAN COMPANY, Fremont, Ohio.
Filed September 11, 1933. Serial No. 341,512. PUBLISHED NOVEMBER 21, 1933. Class 32.

309,778. ELECTRIC TRAFFIC SIGNAL MASTER CONTROLLERS, ELECTRIC TRAFFIC SIGNAL LOCAL CONTROLLERS, AND PARTS OF SAID CONTROLLERS. EAGLE SIGNAL CORPORATION, Moline, Ill.
Filed September 18, 1933. Serial No. 341,648. PUBLISHED NOVEMBER 14, 1933. Class 21.

309,779. BEER. AMERICAN ICE COMPANY, Washington, D. C., and Baltimore, Md., assignor to Southern Corporation, Washington, D. C., a corporation of Delaware.
Filed September 18, 1933. Serial No. 341,643. PUBLISHED NOVEMBER 21, 1933. Class 48.

309,780. LEATHER. R. NEUMANN & COMPANY, Hoboken, N. J.
Filed September 20, 1933. Serial No. 341,733. PUBLISHED NOVEMBER 14, 1933. Class 1.

309,781. ICE BOXES, REFRIGERATORS, COOLERS FOR DRINKING WATER AND BEVERAGES, ICE-CREAM REFRIGERATORS, WATER FILTERS, ICE-CREAM FREEZERS. JABURG BROTHERS, INC., New York, N. Y.
Filed September 18, 1933. Serial No. 341,656. PUBLISHED NOVEMBER 21, 1933. Class 31.

309,782. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. THE BALTIMORE BREWING COMPANY, Baltimore, Md.
Filed September 23, 1933. Serial No. 341,826. PUBLISHED NOVEMBER 21, 1933. Class 48.

309,783. SOAP DISPENSERS. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed September 22, 1933. Serial No. 341,787. PUBLISHED NOVEMBER 21, 1933. Class 13.

309,784. BEER AND ALE. CANAVAN-LEGGETT BREWERY, INC., Niagara Falls, N. Y.
Filed September 25, 1933. Serial No. 341,859. PUBLISHED NOVEMBER 21, 1933. Class 48.

309,785. FLOUR, PARTICULARLY BISCUIT FLOUR. GENERAL MILLS, INC., Minneapolis, Minn.
Filed September 25, 1933. Serial No. 341,852. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,786. MALT BEVERAGES. THE STROH PRODUCTS COMPANY, Detroit, Mich.
Filed September 25, 1933. Serial No. 341,875. PUBLISHED NOVEMBER 21, 1933. Class 48.

309,787. FRESH VEGETABLES. MANATEE FRUIT COMPANY, Tampa, Fla.
Filed September 25, 1933. Serial No. 341,870. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,788. SOYA-BEAN FLOUR. ALLIED MILLS, INC., Chicago, Ill.
Filed September 26, 1933. Serial No. 341,888. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,789. MUCILAGE. AULT & WIBORG CARBON & RIBBON CO. INC., Cincinnati, Ohio.
Filed September 26, 1933. Serial No. 341,890. PUBLISHED NOVEMBER 14, 1933. Class 5.

309,790. RAW FURS. ASSOCIATED FUR FARMS, INC., New Holstein, Wis.
Filed September 27, 1933. Serial No. 341,909. PUBLISHED NOVEMBER 14, 1933. Class 1.

309,791. WINES. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y.
Filed September 25, 1933. Serial No. 341,906. PUBLISHED NOVEMBER 21, 1933. Class 47.

309,792. BEER. PHILADELPHIA BREWING COMPANY, Philadelphia, Pa.
Filed September 28, 1933. Serial No. 341,982. PUBLISHED NOVEMBER 21, 1933. Class 48.

309,793. CANNED FISH, CANNED MEAT, AND CANNED FRUIT. EMPREZA EXPORTADORA LUSITANIA LDA., Lisbon, Portugal.
Filed September 28, 1933. Serial No. 341,953. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,794. PLAYING CARDS. EDWARD S. REID, Jr., doing business as The Utility Card Company, New York, N. Y.
Filed September 29, 1933. Serial No. 342,014. PUBLISHED NOVEMBER 21, 1933. Class 22.

309,795. NAIL HAMMERS, NAIL OR RIPPING HAMMERS, ETC. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed September 28, 1933. Serial No. 341,990. PUBLISHED NOVEMBER 21, 1933. Class 23.

309,796. GOLF CLUBS. THE KROYDON COMPANY, Maplewood, N. J.
Filed August 21, 1933. Serial No. 340,880. PUBLISHED NOVEMBER 21, 1933. Class 22.

309,797. GOLF CLUBS. THE KROYDON COMPANY, Maplewood, N. J.
Filed August 21, 1933. Serial No. 340,879. PUBLISHED NOVEMBER 21, 1933. Class 22.

309,798. COAL. SOVEREIGN POCAHONTAS COMPANY, Bluefield, W. Va.
Filed August 28, 1933. Serial No. 341,100. PUBLISHED NOVEMBER 14, 1933. Class 1.

309,799. BREAD. WESTERGAARD, BERG-JOHNSEN CO., Brooklyn, N. Y.
Filed September 15, 1933. Serial No. 341,617. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,800. COAL. LINEHAN & MOLO, Dubuque Iowa.
Filed August 29, 1933. Serial No. 341,129. PUBLISHED NOVEMBER 14, 1933. Class 1.

309,801. CIGARS. HARRIS BURGER, doing business as Burger Brothers, New York, N. Y.
Filed August 29, 1933. Serial No. 341,115. PUBLISHED NOVEMBER 21, 1933. Class 17.

309,802. PLASTIC COMPOSITION FOR MAKING FLEXIBLE MOLDS AND THE LIKE. THE PERFECT MANUFACTURING CO., doing business as So-Lo Works, Cincinnati, Ohio.
Filed September 1, 1933. Serial No. 341,255. PUBLISHED NOVEMBER 14, 1933. Class 1.

309,803. DOG FOODS. RIVAL PACKING COMPANY, Chicago, Ill.
Filed September 1, 1933. Serial No. 341,224. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,804. FIREARMS—NAMELY, MILITARY AND SPORTING RIFLES, SHOTGUNS, PISTOLS, AIR RIFLES, AND PARTS THEREOF; AND AMMUNITION—NAMELY, METALLIC CARTRIDGES, METALLIC SHOT SHELLS, PAPER SHOT SHELLS, EMPTY METALLIC AND PAPER SHELLS, BLANK CARTRIDGES, CAPS, PRIMERS, WADS, SHOT, AND BULLETS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed September 6, 1933. Serial No. 341,359. PUBLISHED NOVEMBER 21, 1933. Class 9.

309,805. CLOTHESLINES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed September 5, 1933. Serial No. 341,346. PUBLISHED NOVEMBER 21, 1933. Class 7.

309,806. PIECE GOODS. CHEROKEE SPINNING CO., Knoxville, Tenn.
Filed September 7, 1933. Serial No. 341,396. PUBLISHED NOVEMBER 7, 1933. Class 42.

309,807. COTTON PIECE GOODS AND GOODS IN THE PIECE AS FOLLOWS: VELVETEEN, CORDUROY, VELVET, DUVETYN, CLOTH IN IMITATION OF SUEDE AND PLUSH. EISENBERG & WEINSTEIN, INC., New York, N. Y.
Filed September 6, 1933. Serial No. 341,360. PUBLISHED NOVEMBER 7, 1933. Class 42.

309,808. INSTANT ICING. TWINK PRODUCTS CORPORATION, Milwaukee, Wis.
Filed September 7, 1933. Serial No. 341,410. PUBLISHED NOVEMBER 14, 1933. Class 46.

309,809. FRUIT AND VEGETABLE JUICE EXTRACTING MACHINE. ROSARIO MICELI, New York, N. Y.
Filed September 7, 1933. Serial No. 341,402. PUBLISHED NOVEMBER 21, 1933. Class 23.

309,810. FLY SWATTERS AND IMPLEMENTS FOR KILLING AND DISABLING INSECTS AND FLIES. U. S. MANUFACTURING CORPORATION, Decatur, Ill.
Filed September 15, 1933. Serial No. 341,614. PUBLISHED NOVEMBER 21, 1933. Class 50.

309,811. WHEAT CEREAL. CAMPBELL CEREAL COMPANY, Northfield, Minn.
Filed September 14, 1933. Serial No. 341,567. PUBLISHED NOVEMBER 14, 1933. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

309,812. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) PERFECTION STOVE COMPANY, Cleveland, Ohio. Filed Dec. 14, 1933. Serial No. 344,945.

PERFECTION

For Wicks for Oil Burners.
Claims use since 1902.

309,813. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES. ROCK ISLAND BRIDGE & IRON WORKS, Rock Island, Ill. Filed Nov. 23, 1933. Serial No. 344,062.

TRU-VUE

For Stereoscopes and Films Upon Which Photographic Images Have Been Positively Developed.
Claims use since Apr. 15, 1931.

309,814. (CLASS 37. PAPER AND STATIONERY.) BRIGHTWATER PAPER COMPANY, Dover, Del., and Adams, Mass. Filed Nov. 22, 1933. Serial No. 343,959.

DELIBLE BOND

For Writing Paper.
Claims use since September, 1932.

309,815. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE TRADE LABORATORIES, INC., Newark, N. J. Filed Nov. 10, 1933. Serial No. 343,531.

Quickshave

For Shaving Cream.
Claims use since Jan. 11, 1927.

309,816. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE TRADE LABORATORIES, INC., Newark, N. J. Filed Nov. 10, 1933. Serial No. 343,529.

EVERLATHER

For Shaving Cream.
Claims use since Oct. 2, 1928.

309,817. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUEL EHRMAN & CO. INC., New York, N. Y. Filed Nov. 1, 1933. Serial No. 343,115.

KRASH LACE

For Piece Laces.
Claims use since Sept. 15, 1932.

309,818. (CLASS 37. PAPER AND STATIONERY.) THE GLEMBY COMPANY, INC., New York, N. Y. Filed Oct. 25, 1933. Serial No. 342,906.

Lorraine

For Facial Tissues.
Claims use since October, 1929.

309,819. (CLASS 5. ADHESIVES.) RAINBOW RUBBER COMPANY, East Butler, Pa. Filed July 21, 1933. Serial No. 339,986.

STIK-KWIK

For Metallic or Liquid Solder for Soldering Metals, Plumbing Fixtures, Marble, Crockery, Wood, Etc.
Claims use since June 1, 1932.

309,820. (CLASS 5. ADHESIVES.) RAINBOW RUBBER COMPANY, East Butler, Pa. Filed July 21, 1933. Serial No. 339,984.

STIK-KWIK

For Adhesive Rubber Cement and China Cement.
Claims use since June 1, 1932.

309,821. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ROBERT BOSCH AKTIENGESELLSCHAFT, Stuttgart, Germany. Filed June 15, 1933. Serial No. 338,863.

BOSCH

For Brakes and Equipments for Brakes, and Windshield Wipers of the Squeegee Type.
Claims use since 1927 and 1926, respectively.

309,822. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DRUGGIST SERVICE BUREAU, INC., Milwaukee, Wis. Filed Feb. 6, 1933. Serial No. 334,670.

"Quick-Aid"

For Adhesive Tape, Gauze, and Absorbent Cotton.
Claims use since Nov. 21, 1932.

309,823. (CLASS 39. CLOTHING.) GOODMAN SUSS CLOTHES CORPORATION, New York, N. Y. Filed Feb. 3, 1933. Serial No. 334,603.

CUSTOMODE

For Men's Suits, Overcoats, Topcoats, Tuxedos, Full-Dress Suits, Vests and Trousers.
Claims use since Dec. 10, 1932.

309,824. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARDWICK & MAGEE COMPANY, Philadelphia, Pa. Filed Jan. 26, 1933. Serial No. 334,360.

Provincetown
HOOKED CARPET

For Textile Carpets.
Claims use since Nov. 29, 1932.

309,825. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) YOUNGS RUBBER CORPORATION, INC., New York, N. Y. Filed Dec. 21, 1932. Serial No. 333,275.

COLD-N-CHEST

For Wool Flannel Body Protectors.
Claims use since Dec. 12, 1932.

309,826. (CLASS 2. RECEPTACLES.) BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed Dec. 10, 1932. Serial No. 332,944.

Lenonet

For Fabric Bags, Made Either of Fabric Alone or a Combination of Fabric and Paper.
Claims use since Nov. 1, 1932.

309,827. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT AND COMPANY, Chicago, Ill. Filed Nov. 28, 1932. Serial No. 332,517.

TRIM-KNOT

For Neckties.
Claims use since Nov. 1, 1932.

309,828. (CLASS 39. CLOTHING.) MASTERCRAFT PILLOW CORPORATION, New York, N. Y., now by change of name Mastercraft Specialties, Inc. Filed Nov. 12, 1932. Serial No. 332,092.

"Virginform"

For Corsets and Brassières.
Claims use since Sept. 15, 1932.

309,829. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Sept. 28, 1932. Serial No. 330,767.

"FABRICAP"

For Rubber Bathing Caps.
Claims use since Mar. 9, 1932.

309,830. (CLASS 6. CHEMICALS, MEDICINES, PHARMACEUTICAL PREPARATIONS.) RICHARD WEISS, Berlin, Germany. Filed Mar. 29, 1932. Serial No. 325,628.

PANCRESAL

For Preparation for the Treatment of Diabetic Conditions.
Claims use since Apr. 11, 1931.

309,831. (CLASS 39. CLOTHING.) JOSEPH F. DONAHUE, doing business as Stay Fast Corset Company, Providence, R. I., assignor, by mesne assignments, to Stay Fast Company, a firm composed of Joseph F. Donahue, Cranston, R. I., and Ernest R. Mills, Worcester, Mass. Filed Aug. 24, 1932. Serial No. 329,791.

"The BONING STAY-FAST CAN NOT COME OUT"

For Corsets, Brassières, Girdles, and Step-ins—Namely, Underdrawers and Corsets.
Claims use since Aug. 19, 1932.

309,832. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. D. W. FOOD PRODUCTS CO., San Francisco, Calif. Filed July 27, 1932. Serial No. 329,105.

MuFinMix

For Prepared Muffin Flour.
Claims use since July 1, 1932.

309,833. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ESTHER GUZINSKY, doing business as Girard Peanut Co., Shenandoah, Pa. Filed Dec. 10, 1932. Serial No. 332,951.

GIRARD

For Peanuts.
Claims use since Nov. 5, 1932.

309,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PRUNE & APRICOT GROWERS ASSOCIATION, San Jose, Calif. Filed Jan. 14, 1933. Serial No. 333,918.

FOILRAPT

For Dried Fruits.
Claims use since Nov. 12, 1932.

309,835. (CLASS 37. PAPER AND STATIONERY.) RHINELANDER PAPER COMPANY, Rhinelander, Wis. Filed June 6, 1933. Serial No. 338,579.

KLEERGLAZE

For Wrapping Paper.
Claims use since Dec. 17, 1932.

309,836. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAMPA FOOD PRODUCTS, INC., Tampa, Fla. Filed Jan. 28, 1933. Serial No. 334,451.

Tampa-Pak

For Canned Grapefruit Juice and Canned Grapefruit.
Claims use since Dec. 1, 1932.

309,837. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION CUTLERY CO., INC., Olean, N. Y. Filed Nov. 10, 1933. Serial No. 343,533.

Boom Fixer

For Knives, Particularly Pocket Knives.
Claims use since Sept. 1, 1932.

309,838. (CLASS 48. MALT BEVERAGES AND LIQUORS.) NEW PHILADELPHIA BREWERY, INC., New Philadelphia, Ohio. Filed Nov. 14, 1933. Serial No. 343,661.

LOCKPORT

For Malt Beverages of Not More Than the Legal Alcoholic Content.
Claims use since May 1, 1876.

309,839. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) PISCO PUNCH LIMITED, San Francisco, Calif. Filed Nov. 28, 1933. Serial No. 344,248.

Pisco Punch

For Alcoholic Punch.
Claims use since May 1, 1903.

309,840. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) A. F. CURTIN VALVE CO., Medford, Mass. Filed Dec. 6, 1933. Serial No. 344,524.

CURTIN

For Water Closet Fittings—Namely, Ball Cocks, Flushing Valves and Levers.
Claims use since 1916.

309,841. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ENZINGER UNION CORPORATION, New York, N. Y. Filed Dec. 8, 1933. Serial No. 344,638.

ENZINGER

For Filtermass Washers, Filter Sterilizing Apparatus, Bottle-Filling Machines, Barrel-Filling Machines, Bottle Washing Machines, Milk Can Washing Machines, Pitching Machines for Kegs and Barrels, Motor Driven Pumps, Belt Driven Pumps, Hydraulic Filtermass Presses, Bottle Closing Machines, Labeling Machines, and Corking Machines.
Claims use since 1903.

TRADE-MARK REGISTRATIONS RENEWED

42,286. MACHINES FOR CERTAIN NAMED PURPOSES. Registered March 22, 1904. UNITED SHOE MACHINERY COMPANY. Renewed March 22, 1934, to United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass., a corporation of New Jersey, assignee.

42,564. COTTON SHIRTINGS, DRILLS AND SHEETINGS. Registered May 10, 1904, to Clifton Manufacturing Company, Clifton and Converse, S. C. Renewed May 10, 1934, to Clifton Manufacturing Company, Clifton, S. C., a corporation of South Carolina.

42,732. LIQUID PREPARATIONS FOR INTERNAL USE. Registered May 31, 1904. PINBULB MEDICINE CO. Renewed May 31, 1934, to E. C. De Witt & Co. Inc., Chicago, Ill., a corporation of New York, assignee by mesne assignments.

94,190. A MEDICINAL FOOD. Registered November 11, 1913. Y. T. MATZOON COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 11, 1933.

94,481. A MEDICINAL PREPARATION USED EXTERNALLY FOR CERTAIN NAMED DISEASES. Registered December 9, 1913. NATIONAL REMEDY COMPANY. Renewed December 9, 1933, to F. E. Rollins Company, Boston, Mass., a corporation of Massachusetts, by change of name.

94,884. A NON-INTOXICATING CARBONATED BEVERAGE AND SYRUP FOR MAKING SAME. Registered January 13, 1914. CHERO-COLA CO. Renewed January 13, 1934, to Nehi, Inc., Columbus, Ga., a corporation of Georgia, assignee.

95,071. SAWS. Registered February 3, 1914. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed February 3, 1934.

95,073. SAWS. Registered February 3, 1914. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed February 3, 1934.

95,076. SAWS. Registered February 3, 1914. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed February 3, 1934.

95,077. SAWS. Registered February 3, 1914. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed February 3, 1924.

95,401. VARNISHES, MANUFACTURED PAINTS, ENAMELS, JAPANS, STAINS, AND FILLERS. Registered February 17, 1914. CHICAGO VARNISH COMPANY, Chicago, Ill. Renewed February 17, 1934, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

95,480. CERTAIN NAMED PLUMBING SUPPLIES. Registered February 17, 1914. SANITARY COMPANY OF AMERICA, Pottstown, Pa. Renewed February 17, 1934, to Sanitary Company of America, Linfield, Pa., a corporation of Delaware.

95,602. CANNED FRUITS AND CANNED VEGETABLES. Registered March 3, 1914. CODE PORTWOOD CANNING CO., Oakland, Calif. Renewed March 3, 1934, to California Packing Corporation, San Francisco, Calif., a corporation of New York, assignee by mesne assignments.

95,608. SAWS. Registered March 3, 1914. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed March 3, 1934.

95,743. CORSETS. Registered March 10, 1914. CHAPPELL, ALLEN & CO., LIMITED, Redfield, Bristol, England, a corporation of Great Britain. Renewed March 10, 1934.

95,974. CANNED FRUITS AND VEGETABLES AND DRIED FRUITS. Registered March 31, 1914. THE J. K. ARMSBY CO., Chicago, Ill., and San Francisco, Calif. Renewed March 31, 1934, to California Packing Corporation, San Francisco, Calif., a corporation of New York, assignee.

96,082. SALMON. Registered April 7, 1914. THE J. K. ARMSBY CO. Renewed April 7, 1934, to California Packing Corporation, San Francisco, Calif., a corporation of New York, assignee.

96,222. A MONTHLY ALMANAC OR MAGAZINE OF BUSINESS. Registered April 14, 1914. THE ATLAS PORTLAND CEMENT COMPANY, Northampton, Pa., and New York, N. Y. Renewed April 14, 1934, to Universal Atlas Cement Company, Chicago, Ill., a corporation of Indiana, assignee by mesne assignments.

96,228. HAIR-PINS. Registered April 14, 1914. KIRBY, BEARD & CO. LIMITED, Birmingham, England, a corporation of Great Britain. Renewed April 14, 1934.

96,329. FERTILIZERS. Registered April 14, 1914. THE PACIFIC GUANO & FERTILIZER CO., Honolulu, Territory of Hawaii, a corporation of the Territory of Hawaii. Renewed April 14, 1934.

96,385. CANNED VEGETABLES. Registered April 21, 1914. THE J. K. ARMSBY CO., Chicago, Ill., and San Francisco, Calif. Renewed April 21, 1934, to California Packing Corporation, San Francisco, Calif., a corporation of New York, assignee.

96,397. A PREPARATION FOR MAKING CAKE. Registered April 21, 1914. THE CABELL COMPANY. Renewed April 21, 1934, to The C. M. Pitt & Sons Co., Baltimore, Md., a corporation of Maryland, assignee.

96,623. INSECT-POWDER FOR THE DESTRUCTION OF ALL INSECT LIFE. Registered April 28, 1914. ALLAIRE, WOODWARD & CO., Peoria, Ill., a corporation of Illinois. Renewed April 28, 1934.

96,697. PERFUMES, TOILET-WATERS, FACE-POWDERS, ROUGES, AND SACHET-POWDERS. Registered April 28, 1914. MANDEL BROTHERS. Renewed April 28, 1934, to Mandel Brothers, Inc., Chicago, Ill., a corporation of Delaware, assignee.

96,827. CANNED FRUITS AND CANNED VEGETABLES. Registered May 5, 1914. H. G. PRINCE & COMPANY, Fruitvale, Calif. Renewed May 5, 1934, to California Packing Corporation, San Francisco, Calif., a corporation of New York, assignee.

96,925. BOOKS, PAMPHLETS, AND CIRCULARS. Registered May 12, 1914. AMERICAN FEDERATION OF LABOR, Washington, D. C., a voluntary association not incorporated. Renewed May 12, 1934.

97,085. COTTON PIECE GOODS. Registered May 19, 1914. J. L. STIFEL & SONS. Renewed May 19, 1934, to J. L. Stifel & Sons, Inc., Wheeling, W. Va., a corporation of West Virginia, assignee.

97,137. EGGS. Registered May 19, 1914. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Renewed May 19, 1934, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a corporation of New Jersey.

97,170. METAL FENCING. Registered May 19, 1914. PITTSBURGH STEEL CO., Pittsburgh, and Monessen, Pa. Renewed May 19, 1934, to Pittsburgh Steel Co., Pittsburgh, Pa., a corporation of Pennsylvania.

97,195. WOOL PILE, COTTON-WOOL PILE, AND COTTON PILE FABRICS. Registered May 19, 1914. WORUMBO MANUFACTURING COMPANY, Bath, Maine, and New York, N. Y. Renewed May 19, 1934, to Worumbo Manufacturing Company, Lisbon Falls, Maine, a corporation of Maine.

97,246. CARTONS, BOXES, AND RECEPTACLE-BAGS. Registered May 26, 1914. ANNA JARVIS, Philadelphia, Pa. Renewed May 26, 1934.

97,277. AN OIL FOR USE IN TREATMENT OF CERTAIN DISEASES. Registered May 26, 1914. MAURICE F. SCHLESINGER. Renewed May 26, 1934, to Bendiner and Schlesinger, Inc., New York, N. Y., a corporation of New York, assignee.

97,288. CERTAIN PREPARED ROOFINGS. Registered May 26, 1914. STANDARD PAINT COMPANY. Renewed May 26, 1934, to The Ruberoid Co., Boundbrook, N. J., and New York, N. Y., a corporation of New Jersey, by change of name.

97,301. LUBRICATING-OILS AND LUBRICATING-GREASES. Registered May 26, 1914. G. F. WHITNEY COMPANY, Boston, Mass. Renewed May 26, 1934, to The Ohio Oil Company, Findlay, Ohio, a corporation of Ohio, assignee by mesne assignments.

97,324. GINGER-ALE, SARSAPARILLA, BIRCH-BEER, ORANGE-PHOSPHATE, ROOT-BEER, AND LEMON-SOUR. Registered June 2, 1914. CLICQUOT CLUB COMPANY, Providence, R. I., and Millis, Mass. Renewed June 2, 1934, to Clicquot Club Company, Millis, Mass., a corporation of Rhode Island.

97,424. CERTAIN NAMED PRINTS AND PUBLICATIONS. Registered June 2, 1914. ANNA JARVIS, Philadelphia, Pa. Renewed June 2, 1934.

97,431. ABRASIVE PAPER AND CLOTH. Registered June 2, 1914. MANNING SAND PAPER COMPANY, Watervliet, N. Y. Renewed June 2, 1934, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts, assignee.

97,433. ABRASIVE PAPER AND CLOTH. Registered June 2, 1914. MANNING SAND PAPER COMPANY, Watervliet, N. Y. Renewed June 2, 1934, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts, assignee.

LABELS

REGISTERED JANUARY 30, 1934

43,171.—*Title:* APPROVAL SEAL. For Gas Appliances. AMERICAN GAS ASSOCIATION, New York, N. Y. Published February 1, 1929.

43,172.—*Title:* MAJESTIC. For Sherry. REBECCA APPLEBAUM, doing business as Majestic Wine Company, New York, N. Y. Published October 1, 1933.

43,173.—*Title:* CREME DE CACAO. For Liqueur. BENBURK, INC., Boston, Mass. Published December 15, 1933.

43,174.—*Title:* DEERWOOD. For Peas. THE COPPS COMPANY, Stevens Point, Wis. Published December 1, 1933.

43,175.—*Title:* JERSEY COFFEE. For Coffee. THE DAYTON SPICE MILLS COMPANY, Dayton, Ohio. Published October 31, 1933.

43,176.—*Title:* VARSITY. For Hats. MORRIS EPSTEIN, doing business under the name of M. Epstein & Co., Baltimore, Md. Published September 30, 1933.

43,177.—*Title:* ST MATTHEW'S BIBLE COMPOUND. For Herb Compound. WM. FITCH, Chicago, Ill. Published November 17, 1933.

43,178.—*Title:* MISTY ISLE. For Scotch Whisky. PETER FORSYTH & Co., Glasgow, Scotland. Published November 17, 1933.

43,179.—*Title:* FOX HEAD OLD WAUKESHA ALE. For Ale. FOX HEAD WAUKESHA CORP., Milwaukee, Wis. Published December 6, 1933.

43,180.—*Title:* OLD COLONY. For Wine. FREDONIA PRODUCTS CO. INC., Fredonia, N. Y. Published December 5, 1933.

43,181.—*Title:* GEMS. For Washing and Bluing Compound. GEM PRODUCTS SALES CO., Camden, N. J. Published July 6, 1933.

43,182.—*Title:* LIQUEUR SCOTCH WHISKY 12 YEARS OLD. For Scotch Whisky. J H ROBERT GRANT, doing business as Robert Grant & Co., New York, N. Y. Published November 27, 1933.

43,183.—*Title:* SCOTCH WHISKY 5 YEARS OLD. For Scotch Whisky. J H ROBERT GRANT, doing business as Robert Grant & Co., New York, N. Y. Published November 27, 1933.

43,184.—*Title:* HALFERTY'S CLAMS IN SHELL WITH CLAM NECTAR. For Clams. HALFERTY CORPORATION, Seattle, Wash. Published October 25, 1933.

43,185.—*Title:* BROWN DERBY. For Beer. HUMBOLDT MALT & BREWING COMPANY, San Francisco, Calif. Published June 5, 1933.

43,186.—*Title:* BO-NOODLES. For Noodles. THE KANSAS CITY MACARONI & IMPORTING COMPANY, Kansas City, Mo. Published November 30, 1933.

43,187.—*Title:* FRU-NUT. For Chocolates. KING CANDY COMPANY, Fort Worth, Tex. Published November 15, 1933.

43,188.—*Title:* KLEENEX DISPOSABLE TISSUES. For Tissues for Facial Cleansing, Removing Cosmetics, Wiping Spectacles, Drying Razor Blades, and as Handkerchiefs. KLEENEX COMPANY, Chicago, Ill. Published August 28, 1933.

43,189.—*Title:* SUN-VITE. For Macaroni. L. A. PACIFIC MACARONI CO., Los Angeles, Calif. Published May 8, 1933.

43,190.—*Title:* BAMBINO. For Macaroni Elbows. MILWAUKEE MACARONI COMPANY, Milwaukee, Wis. Published October 6, 1933.

43,191.—*Title:* AMA-GON. For Inhalant. BLANCHE M. NORTHRUP, doing business as Ama-Gon Laboratories, Los Angeles, Calif. Published February 19, 1932.

43,192.—*Title:* MAGICMITT. For Cleaning Gloves or Mittens. HERBERT I. RITTS, doing business as Satisfaction Exchange, Los Angeles, Calif. Published December 19, 1933.

43,193.—*Title:* ROMEO CALIFORNIA SAUTERNES WINE. For Wine. ROMEO IMPORT CO., INC., New York, N. Y. Published December 5, 1933.

43,194.—*Title:* TARZAN. For Candy. STEPHEN SLESINGER, New York, N. Y. Published October 6, 1933.

43,195.—*Title:* ROYAL QUICK SETTING PINEAPPLE FLAVOR GELATIN DESSERT. For Gelatin Dessert. STANDARD BRANDS INCORPORATED, New York, N. Y. Published February 16, 1933.

43,196.—*Title:* PETER STUYVESANT. For Dry Gin. STUYVESANT DISTILLING CORP., Long Island City, N. Y. Published November 29, 1933.

43,197.—*Title:* COFFEE. For Coffee. UNION BAG & PAPER CORPORATION, New York, N. Y. Published December 14, 1933.

43,198.—*Title:* MOTH PROOF COAT HANGER. For Coat Hangers Scientifically Treated to Kill Moths. HARRY LOUIS VAN ATTA, Long Beach, Calif. Published November 21, 1933.

43,199.—*Title:* WECO. For Coffee. THE WEPPNER WEIL COMPANY, Cleveland, Ohio. Published December 12, 1933.

43,200.—*Title:* DE CASINO. For Coffee. THE WEPPNER WEIL COMPANY, Cleveland, Ohio. Published December 12, 1933.

43,201.—*Title:* HER GRACE BRAND FRUIT CAKE. For Fruit Cake. WESCO FOODS COMPANY, Cincinnati, Ohio. Published October 30, 1933.

43,202.—*Title:* TRUE TEST HONEST VALUE TABLET. For Tablets. WHITE & WYCKOFF MFG. CO., Holyoke, Mass. Published December 26, 1933.

43,203.—*Title:* THE DUO-TYPEWRITER TABLET. For Typewriter Tablets. WHITE & WYCKOFF MFG. CO., Holyoke, Mass. Published December 26, 1933.

PRINTS

REGISTERED JANUARY 30, 1934

14,542.—*Title:* YOU MUST FEEL A SMILE TO ACT ONE. For a Beverage. COCA-COLA COMPANY, Atlanta, Ga. Published October 1, 1933.

14,543.—*Title:* AWAY WITH A TIRED THIRSTY FACE. For a Beverage. COCA-COLA COMPANY, Atlanta, Ga. Published November 10, 1933.

14,544.—*Title:* REFRESHED FOR THE CAMERA. For Beverage. COCA-COLA COMPANY, Atlanta, Ga. Published November 8, 1933.

14,545.—*Title:* FREE MADAM! THIS EXQUISITE NEW LIFETIME CHROMIUM TIDBIT TRAY. For Cake Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published December 10, 1933.

14,546.—*Title:* NOW! A QUICKER AND SIMPLER WAY TO MAKE PIGS IN BLANKETS. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published December 25, 1933.

14,547.—*Title:* GLOBE EASY-REST. For Chairs. GLOBE PARLOR FURNITURE CO., High Point, N. C. Published December 18, 1933.

14,548.—*Title:* THE OLD HICKORY WOOD MAKES THEM TASTE SO GOOD. For Hams and Bacon. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio. Published July 1, 1933.

14,549.—*Title:* SUPR-FLEX. For Rimless Glasses. DR. H. C. REES, San Antonio, Tex. Published December 28, 1933.

14,550.—*Title:* THE HOME PLATE. For Hamburger Sandwiches. E. W. STEVENS, Portland, Oreg. Published March 31, 1933.

14,551.—*Title:* EAT SUNFREZE ICE CREAM FOR VITAL ENERGY. For Ice Cream. WESTERN DAIRY PRODUCTS CO., Seattle, Wash. Published August 7, 1933.

REISSUES

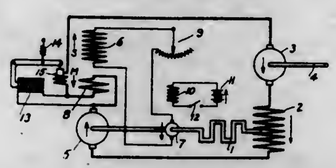
JANUARY 30, 1934

19,065
AUTOMATIC POWER TRANSMISSION

Alfons H. Neuland, Irvington, N. J., assignor, by mesne assignments, to Electrogear Corporation, a corporation of Delaware

Original No. 1,784,308, dated December 9, 1930, Serial No. 219,227, September 13, 1927. Application for reissue December 6, 1932. Serial No. 645,997

26 Claims. (Cl. 290—29)



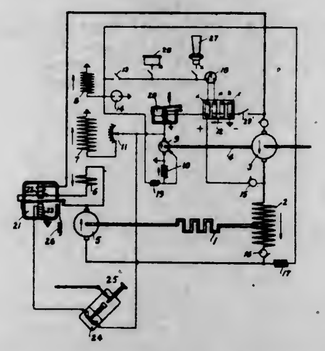
1. In combination an engine, a load shaft, a clutch dynamo interposed between engine and load, a booster dynamo operatively connected to engine and electrically connected to clutch dynamo provided with pole pieces and field coils, a regulating dynamo operatively connected to engine and electrically connected to the field coils and means for varying the speed of engine and regulating dynamo operative to vary the current in the field coils and reverse the magnetic flux in the pole pieces.

19,066
ELECTRIC SYSTEM FOR VEHICLES

Alfons H. Neuland, Irvington, N. J., assignor, by mesne assignments, to Electrogear Corporation, a corporation of Delaware

Original No. 1,820,861, dated August 25, 1931, Serial No. 292,195, July 12, 1928. Application for reissue December 6, 1932. Serial No. 645,999

28 Claims. (Cl. 290—12)



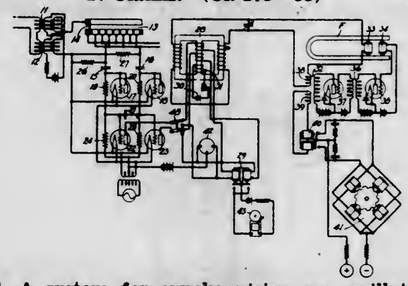
1. In a transmission system, a power source, a load shaft, a clutch dynamo interposed between the power source and load shaft, a booster dynamo operatively connected to the power source and having a series field coil, a load circuit including said series field coil, a switch for short-circuiting the field coil when load current is light, and a variable potential generator for closing the switch in opposition to the load current.

19,067
SYNCHRONIZING SYSTEM

William A. Knoop, Hempstead, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original No. 1,848,180, dated March 8, 1932, Serial No. 354,954, April 13, 1929, and in Great Britain May 19, 1928. Application for reissue April 6, 1933. Serial No. 664,747

17 Claims. (Cl. 178—53)



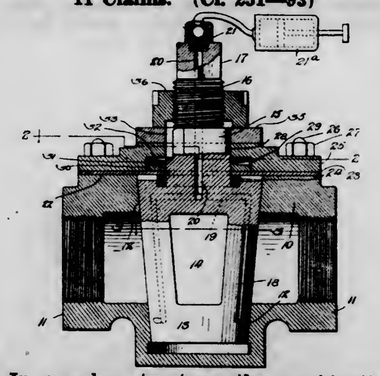
1. A system for synchronizing an oscillatory fork with a series of incoming impulses which comprises instrumentalities for producing a series of correcting impulses corresponding to changes of polarity of the incoming impulses, and means including correcting circuits whereby each of said series of impulses produces an effect upon said fork which is nil, acceleratory or deceleratory in a manner proportional to and depending upon the phase relation of said fork with respect to said produced impulses.

19,068
PLUG COCK

Jesse C. Martin, Jr., San Francisco, Calif., assignor to Walworth Patents Inc., Boston, Mass., a corporation of Massachusetts

Original No. 1,416,732, dated May 23, 1922, Serial No. 442,862, February 5, 1921. Application for reissue August 31, 1923. Serial No. 660,453

11 Claims. (Cl. 251—93)

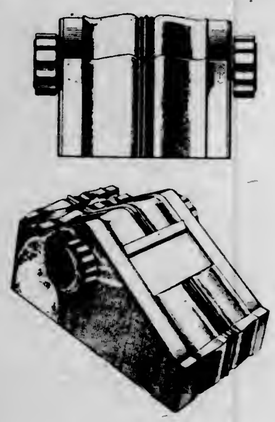


7. In a valve structure, the combination of a casing and a rotatable valve element seated therein, an operating stem extending from said valve member, a cover for the casing, a diaphragm clamped between the casing and the cover and overlying the valve element, a washer surmounting the diaphragm, and means for exerting pressure on said washer to thereby seat the diaphragm against the valve element.

DESIGNS

JANUARY 30, 1934

91,416
DESIGN FOR A CASING FOR A TELEPHONE INDEX OR LIKE ARTICLE
Norman Bel Geddes and Worthen Paxton, New York, N. Y., assignors to The Bates Manufacturing Company, West Orange, N. J., a corporation of New Jersey
Application October 21, 1933. Serial No. 49,532
Term of patent 7 years



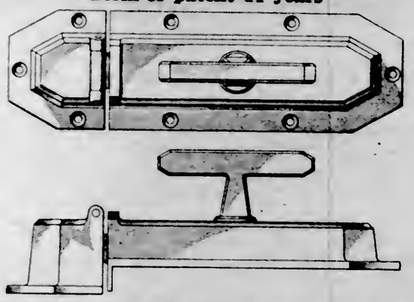
The ornamental design for a casing for a telephone index or like article, substantially as shown.

91,417
DESIGN FOR A BEER BOTTLE
Moses L. Blumenthal, Milwaukee, Wis.
Application November 11, 1933. Serial No. 49,700
Term of patent 14 years



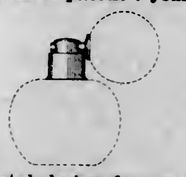
The ornamental design for a beer bottle substantially as shown.

91,418
DESIGN FOR A DOOR LATCH
Sigurd Brantingson, Palisades Park, N. J.
Application November 14, 1933. Serial No. 49,723
Term of patent 14 years



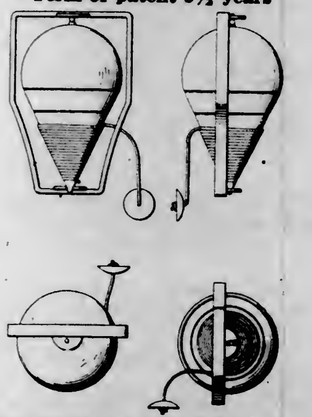
The ornamental design for a doorlatch substantially as shown.

91,419
DESIGN FOR AN ATOMIZER
Paul B. Brown, Toledo, Ohio
Application May 22, 1933. Serial No. 48,180
Term of patent 7 years



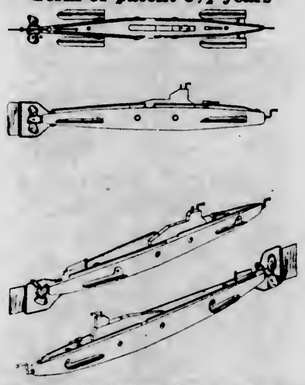
The ornamental design for an atomizer, substantially as shown and described.

91,420
DESIGN FOR A SPINNING TOP AND HOLDER
Fabio Conti, Chicago, Ill.
Application October 28, 1933. Serial No. 49,589
Term of patent 3½ years



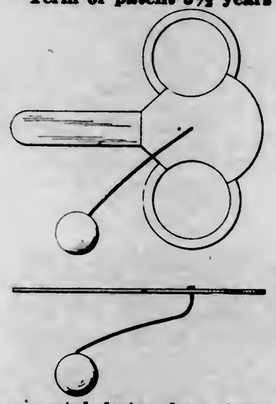
The ornamental design for a spinning top and holder as shown.

91,421
DESIGN FOR A TOY DIVING SUBMARINE BOAT
Homer H. Dasey, Springfield, Ill., assignor to Dasey Boat Co., Springfield, Ill., a corporation of Illinois
Application May 31, 1933. Serial No. 48,252
Term of patent 3½ years



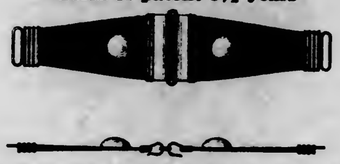
The ornamental design for a toy diving submarine boat as shown.

91,422
DESIGN FOR A TOY
Davis W. Fisher, Brownfield, Tex.
Application November 21, 1933. Serial No. 49,815
Term of patent 3½ years



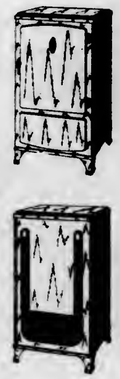
The ornamental design for a toy as shown.

91,423
DESIGN FOR AN APPAREL BELT FRONT
William Forstner, Irvington, N. J.
Application October 10, 1933. Serial No. 49,449
Term of patent 3½ years



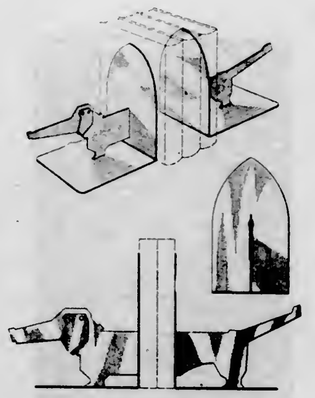
The ornamental design for an apparel belt front, as shown and described.

91,424
DESIGN FOR A REFRIGERATOR CABINET
Clarence G. Frantz, Cleveland Heights, Ohio
Application April 25, 1933. Serial No. 47,891
Term of patent 14 years



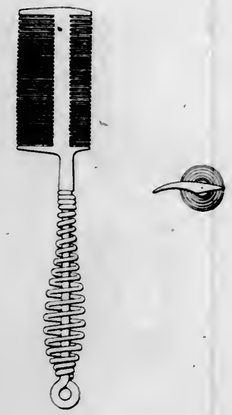
The ornamental design for a refrigerator cabinet as shown.

91,425
DESIGN FOR BOOK ENDS
Andrew Fraser Gibson, Berkeley, Calif.
Application February 29, 1932. Serial No. 43,041
Term of patent 14 years



The ornamental design for book ends as shown in the accompanying drawing.

91,426
DESIGN FOR A COMB
Solom Goldberg, Louisville, Ky.
Application November 15, 1932. Serial No. 45,992
Term of patent 14 years



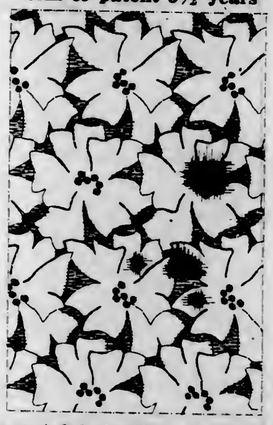
The ornamental design for a comb as shown.

91,427
DESIGN FOR A LACE TABLECLOTH
Howard D. Hooven, Jr., Philadelphia, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application December 2, 1933. Serial No. 49,928
Term of patent 3½ years



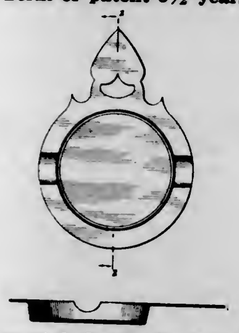
The ornamental design for a lace tablecloth substantially as shown and described.

91,428
DESIGN FOR A TEXTILE FABRIC
Max U. Juestrich, Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn., a corporation of Connecticut
Application December 20, 1933. Serial No. 50,135
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

91,429
DESIGN FOR AN ASH TRAY
Morris Kaplan, Brooklyn, N. Y.
Application November 25, 1933. Serial No. 49,866
Term of patent 3½ years



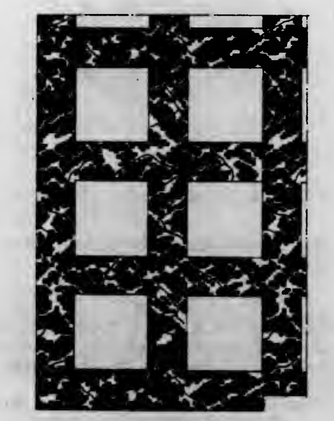
The ornamental design for an ash tray as shown.

91,430
DESIGN FOR SHELF-PAPER
Edward Karfiol, New York, N. Y.
Application November 9, 1933. Serial No. 49,681
Term of patent 14 years



The ornamental design for shelf-paper as shown and described.

91,431
DESIGN FOR A FLOOR COVERING
Charles O. Karpf, New York, N. Y., assignor to Mannington Mills, Incorporated, Salem, N. J., a corporation of New Jersey
Application November 24, 1933. Serial No. 49,858
Term of patent 7 years



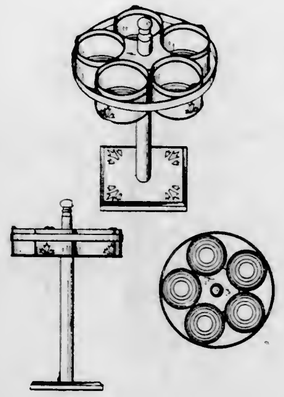
The ornamental design for a floor covering, substantially as shown.

91,432
DESIGN FOR A FLOOR COVERING
Charles O. Karpf, New York, N. Y., assignor to Mannington Mills, Incorporated, Salem, N. J., a corporation of New Jersey
Application November 25, 1933. Serial No. 49,876
Term of patent 7 years



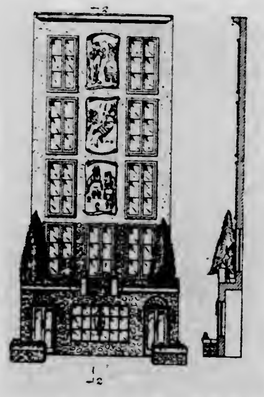
The ornamental design for a floor covering, substantially as shown.

91,433
DESIGN FOR A YARN OR THREAD HOLDER
Ossie J. Koger, Kansas City, Mo.
Application November 23, 1933. Serial No. 49,832
Term of patent 3½ years



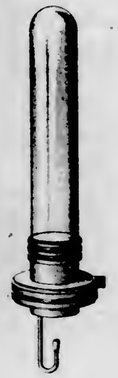
The ornamental design for a yarn or thread holder, as shown.

91,434
DESIGN FOR A CLUB HOUSE FRONT OR THE LIKE
Nellie Renée Liddle, New York, N. Y.
Application October 10, 1933. Serial No. 49,442
Term of patent 14 years



The ornamental design for a club house front or the like as shown and described.

91,435
DESIGN FOR A DISPENSER FOR CUPS OR THE LIKE
Paul A. Lobel, New York, N. Y., assignor to Herz Cup Company, Incorporated, New York, N. Y., a corporation of New York
Application July 8, 1933. Serial No. 48,662
Term of patent 14 years



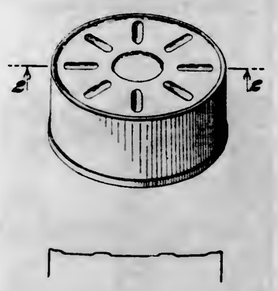
The ornamental design for a dispenser for cups or the like, as shown and described.

91,436
DESIGN FOR A LACE TABLECLOTH
Walter C. Miller, Philadelphia, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application December 2, 1933. Serial No. 49,929
Term of patent 3½ years



The ornamental design for a lace tablecloth substantially as shown and described.

91,437
DESIGN FOR A CAN
Earl M. Nielsen, Point Loma, Calif.
Application May 13, 1933. Serial No. 48,107
Term of patent 14 years



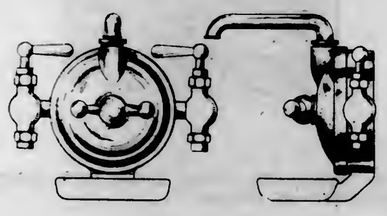
The ornamental design for a can, substantially as shown.

91,438
DESIGN FOR A LACE TABLECLOTH
Ferdinand P. Otto, Philadelphia, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application December 2, 1933. Serial No. 49,930
Term of patent 3½ years

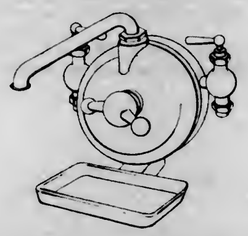


The ornamental design for a lace tablecloth substantially as shown and described.

91,439
DESIGN FOR A PLUMBING FIXTURE
William Wallace Potter, Pawtucket, R. I.
Application May 2, 1932. Serial No. 43,696
Term of patent 3½ years

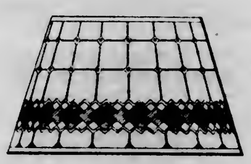


91,439—Continued



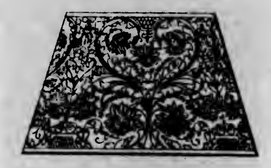
The ornamental design for a plumbing fixture, as shown and described.

91,440
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application November 17, 1933. Serial No. 49,779
Term of patent 3½ years



The ornamental design for a lamp shade, substantially as shown and described.

91,441
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application November 17, 1933. Serial No. 49,781
Term of patent 3½ years



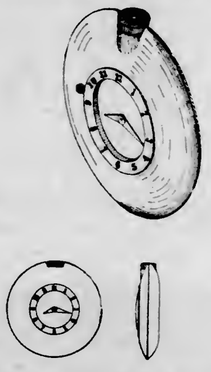
The ornamental design for a lamp shade, substantially as shown and described.

91,442
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application December 1, 1933. Serial No. 49,911
Term of patent 3½ years



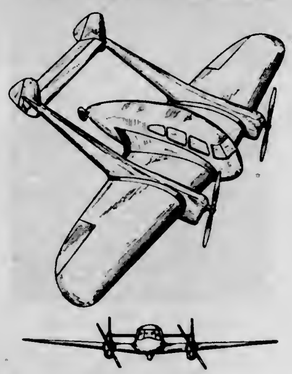
The ornamental design for a lamp shade, substantially as shown and described.

91,443
DESIGN FOR A WATCH
Roy Sheldon, New York, N. Y.
Application October 30, 1933. Serial No. 49,602
Term of patent 7 years



The ornamental design for a watch, as shown and described.

91,444
DESIGN FOR AN AIRPLANE
Thomas M. Shelton, Denver, Colo., assignor to American Gyro Co., a corporation of Colorado
Application October 20, 1933. Serial No. 49,521
Term of patent 14 years



The ornamental design for an airplane as shown.

91,445
DESIGN FOR MACARONI
Guido Tanzi, Brooklyn, N. Y., assignor, by mesne assignments, to B. Filippone & Co. Inc., Passaic, N. J., a corporation of New Jersey
Application November 17, 1933. Serial No. 49,767
Term of patent 7 years



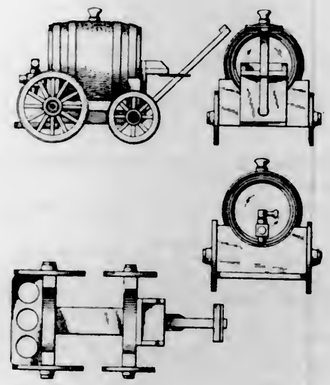
The ornamental design for macaroni substantially as shown.

91,446
DESIGN FOR A LACE TABLECLOTH
James Waterfield, Philadelphia, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application December 2, 1933. Serial No. 49,931
Term of patent 3½ years



The ornamental design for a lace tablecloth substantially as shown and described.

91,447
DESIGN FOR A LIQUID DISPENSER OR THE LIKE
George E. Wehrenberg, Chicago, Ill., assignor to Regalite, Inc., Chicago, Ill., a corporation of Illinois
Application February 2, 1933. Serial No. 47,085
Term of patent 3½ years



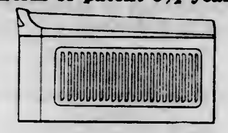
The ornamental design for a liquid dispenser or the like, substantially as shown.

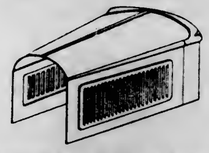
91,448
DESIGN FOR A LACE TABLECLOTH
William Wolf, Philadelphia, Pa., assignor to Quaker Lace Company Incorporated, Philadelphia, Pa.
Application November 15, 1933. Serial No. 49,727
Term of patent 7 years



The ornamental design for a lace tablecloth substantially as shown and described.

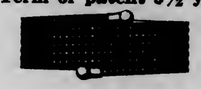
91,449
DESIGN FOR A HOOD AND COWL ASSEMBLY
Fred M. Zeder, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application October 28, 1931. Serial No. 41,553
Term of patent 3½ years

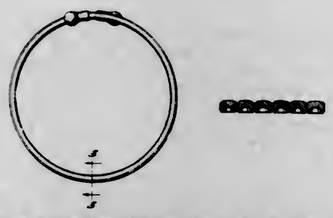




The ornamental design for a hood and cowl assembly substantially as shown.

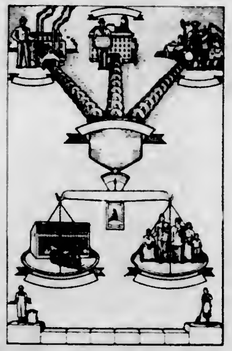
91,450
DESIGN FOR A BRACELET OR SIMILAR ARTICLE OF JEWELRY
John M. Miller and George F. Fenton, Providence, R. I., assignors to The Progressive Ring Company, Providence, R. I., a corporation of Rhode Island
Application November 4, 1933. Serial No. 49,653
Term of patent 3½ years





The ornamental design for a bracelet or similar article of jewelry, as shown and described.

91,451
DESIGN FOR A PICTORIAL CHART
Caroline M. Stafford, Portland, Oreg.
Application April 25, 1933. Serial No. 47,896
Term of patent 14 years



The ornamental design for a pictorial chart, as shown and described.

91,452
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Roger Megroz, Bronxville, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,958
Term of patent 3½ years

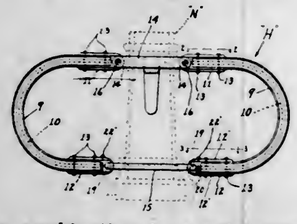


The ornamental design for a textile fabric or similar article as shown and described.

PATENTS

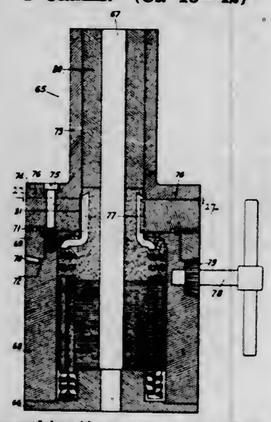
GRANTED JANUARY 30, 1934

1,944,868
CARRIER HANDLE
Alfred Anderson, Chicago, Ill.
Application January 9, 1930. Serial No. 419,715
4 Claims. (Cl. 299—112)



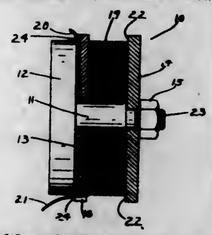
1. The combination in a substantially non-breakable carrier handle, of the character described, of a U-shaped reinforced non-breakable leather handle, a pair of connecting links adapted to fit over a fire hose nozzle, and comparatively broad bifurcated metallic handle connectors rigidly secured over the ends of said handle, and means for forming a substantial non-twistable connection of the said handle connectors to said links, substantially for the purpose specified.

1,944,869
METHOD OF AND APPARATUS FOR MAKING COMMUTATORS
Vincent G. Apple, Dayton, Ohio; Herbert F. Apple, Edward M. Apple, and Gourley Darroch, executors of said Vincent G. Apple, deceased
Application November 19, 1928
Serial No. 320,338
4 Claims. (Cl. 18—42)



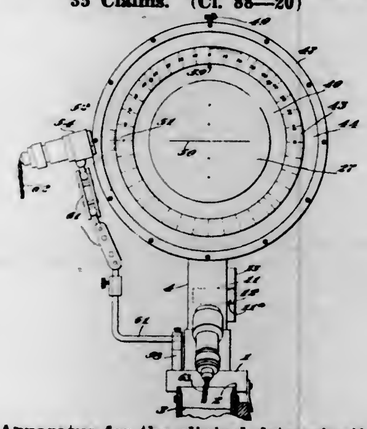
1. The combination, in a mold for making commutators having an opening adapted to receive the segments of a commutator in cylindrical formation, of a plurality of radially movable jaws adapted to engage the outer edges of the segments, spacing tangs extending inwardly a short distance between adjacent segments, means to move said jaws inwardly to clamp said segments tightly between said spacing tangs, a cylinder communicating with said opening adapted to contain a quantity of unmolded insulating material, and a plunger to force said material between and about said segments.

1,944,870
APPARATUS FOR MAKING AN ELECTRICAL COIL
Vincent G. Apple, Dayton, Ohio; Herbert F. Apple, Edward M. Apple, and Gourley Darroch, executors of said Vincent G. Apple, deceased
Application November 3, 1930. Serial No. 492,945
4 Claims. (Cl. 140—92.2)



1. A separable winding spool for making electrical coils, comprising a central stud carrying two spaced apart washers with central openings fitted to said stud and smooth sides facing each other, the opposite side of one of the washers having a groove extending radially inward from its outer diameter thence axially through the central opening.

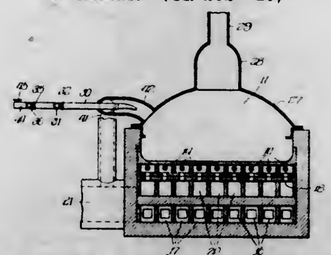
1,944,871
CLINICAL OPTICAL MENSURATION METHOD AND INSTRUMENT
Adelbert Ames, Jr., and Gordon H. Gliddon, Hanover, N. H., assignors to Trustees of Dartmouth College, Hanover, N. H., a corporation of New Hampshire
Application August 13, 1929. Serial No. 385,611
35 Claims. (Cl. 88—20)



1. Apparatus for the clinical determination of errors of joint ocular perception having therein in combination, apparatus permitting and inducing joint vision of two or more objects, one by each eye, and targets having thereon like objects for visual fusion and unlike objects for apparent

projection on each other spacially arranged in reference to each other, whereby judgment can be made of the relative displacement of the dissimilar objects.

1,944,872
METHOD OF COKING HEAVY PETROLEUM RESIDUES OR THE LIKE
Charles W. Andrews, Chicago, Ill., and Reginald D. Rogers, Bayonne, N. J., assignors to C. P. T. Development Corporation, Chicago, Ill., a corporation of Delaware
Application December 11, 1929
Serial No. 413,207
3 Claims. (Cl. 202—17)



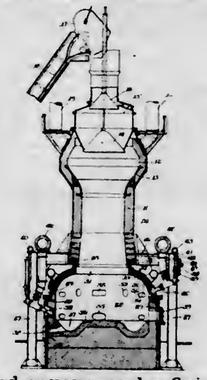
1. The method of treatment of heavy hydrocarbons in liquid form, which comprises spraying the hydrocarbon together with an oxygen-containing gas into a closed chamber, the chamber being at approximately atmospheric pressure, the temperatures of the liquid and oxygen being such as to cause partial combustion of the liquid, thus raising the temperature of the liquid to such a point as to drive off the volatile portions of the liquid and progressively deposit a solid carbonaceous residue upon the floor of the chamber, the residue being in the form of coke, externally heating the floor of the chamber to approximately a coking temperature, and periodically interrupting the introduction of the hydrocarbons and withdrawing the formed layer of coke.

1,944,873
SMELTING SULPHIDE ORE
Raymond F. Bacon, Bronxville, N. Y.
No Drawing. Application December 31, 1930
Serial No. 505,989
11 Claims. (Cl. 23—226)

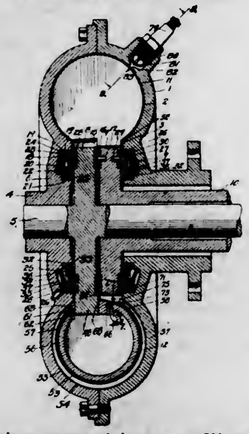
9. The process of producing elemental sulphur from sulphide ores which comprises, smelting a mixture of ore, carbonaceous reducing agent in amount sufficient to reduce a substantial part of the sulphur dioxide formed to elemental sulphur, and slagging material, passing the smelter gases containing said elemental sulphur in contact with a catalyst capable of accelerating further reduction of the sulphur dioxide in said gases to produce elemental sulphur, separating the elemental sulphur from the accompanying gases, contacting said gases with lime whereby it will be converted to calcium sulphite by sulphur dioxide in said gases, and returning said sulphite to the smelting operation as a source of slagging material.

1,944,874
REDUCTION OF ORES
Herman A. Brassert, Chicago, Ill., assignor to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois
Application July 8, 1931. Serial No. 549,559
2 Claims. (Cl. 75—17)

1. The method of making molten ferrous metal, which comprises reducing iron ore by finely divided carbon while preheating the ore with waste heat derived from complete combustion of fuel injected into the melting zone, melting the reduced iron and gangue, and refining the molten metal by an oxidizing flame in the same unit.



1,944,875
SEALING MEANS FOR ANNULAR CYLINDER ENGINES
Frank A. Bullington, Los Angeles, Calif., assignor to Bullington Motors, Kansas City, Mo., a common-law trust consisting of Solomon Stoddard, Ernest E. Howard, and Frank A. Bullington
Application February 26, 1926, Serial No. 90,838
Renewed April 20, 1933
10 Claims. (Cl. 286—7)

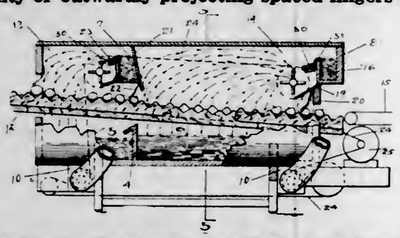


9. A packing comprising a split sealing ring adapted to have face contact with a moving member, a supporting ring contacting with a face of the sealing ring, said contacting faces being arranged at an angle to a face of the sealing ring opposite to said contacting faces, and means contacting with one side of the sealing ring and with one side of the supporting ring whereby said rings have independent side thrust imparted thereto in the same direction.

1,944,876
WASHER
Frank W. Cutler, Portland, Oreg., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application September 3, 1929
Serial No. 390,053
8 Claims. (Cl. 146—194)

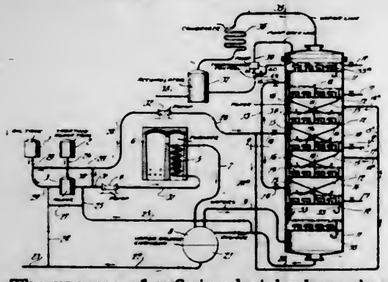
1. In a washing apparatus, a housing, means for conveying articles therethrough, means above

said conveying means for discharging a sheet of liquid theretoward, a wheel disposed to rotate about a horizontal axis and provided with a plurality of outwardly projecting spaced fingers dis-



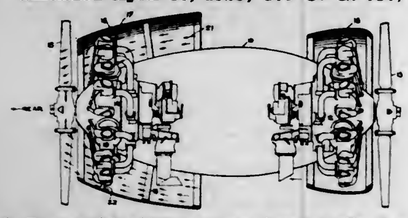
posed to impinge against said sheet of liquid to cause a shower of liquid upon articles being conveyed through the housing, and means for driving said wheel.

1,944,877
PROCESS FOR REFINING HYDROCARBON OIL VAPORS
Homer T. Darlington, West Chester, Pa., assignor, by mesne assignments, to Oil Corporation of America, a corporation of Delaware
Application June 15, 1927. Serial No. 198,935
4 Claims. (Cl. 196—36)



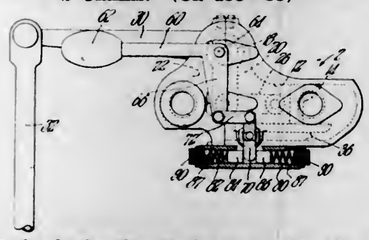
1. The process of refining hot hydrocarbon oil consisting in heating and vaporizing oil under pressure, releasing the pressure thereby vaporizing a portion of the heated oil, passing the vapors of oil through a series of successively cooler bodies of condensate and oil alternately, said bodies of oil containing a solid treating agent in colloidal dispersion.

1,944,878
COWLING
Walter S. Diehl, United States Navy
Application September 15, 1932
Serial No. 633,306
3 Claims. (Cl. 244—31)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, an engine nacelle for an aircraft, a radial tractor engine mounted on said nacelle, a pusher propeller driven by the engine, a conoidal ring extending from the region of the engine to a point well forward of the engine and forming with said nacelle an annular air passage of substantially equal area along its length, and means for securing the ring to the nacelle and engine.

1,944,879
SHOCK ABSORBER
Jason G. Doubleday, Springfield, Mass.
Application February 24, 1933. Serial No. 658,400
2 Claims. (Cl. 188—88)



1. A shock absorber device comprising in combination, a body having a piston-bore therein and a port connected to opposite ends of said bore, a piston reciprocable in said bore, means connected to said piston for reciprocating the same, a valve rotatable in said port having an opening therethrough, a swinging weighted lever operatively connected to said valve, a pair of reciprocable members spring pressed towards one another and a part associated with said connections disposed between said members all adapted and arranged whereby as the valve is rotated in one direction or the other it is yieldingly urged to a neutral position.

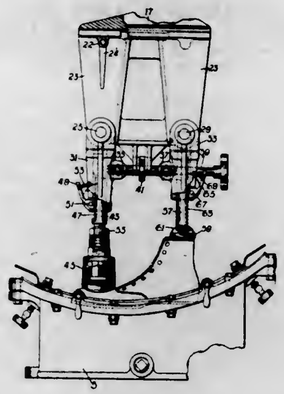
1,944,880
METHOD OF PRODUCING FLOUR
Jacob Finkel, Philadelphia, Pa.
No Drawing. Application March 20, 1930
Serial No. 437,612
3 Claims. (Cl. 99—11)

1. The method of preparing a food mixture in the form of a bone-dry powder for making cake dough, comprising agitating and heating a mass of grain flour under a vacuum for removing the moisture from the flour, then adding shortening and other perishable ingredients to the dried flour and continuing the heating and agitation of the mass at a temperature substantially below 185 degrees Fahrenheit for a time sufficient to drive off substantially all free moisture, whereby to produce softening of the flour glutens and blending of the shortening therewith to thereby increase the preservative qualities of the flour mixture.

1,944,881
PREPARED CAKE FLOUR
Jacob Finkel, Philadelphia, Pa.
No Drawing. Application March 20, 1930
Serial No. 437,613
2 Claims. (Cl. 99—11)

1. The method of preparing a food mixture in the form of a bone-dry powder for making cake dough comprising agitating and heating a mass of grain flour under a vacuum for removing the moisture from the flour, then adding cocoanut oil, cocoa and other perishable ingredients to the dried flour and continuing the heating and agitation of the mass at a temperature substantially below 185 degrees Fahrenheit for a time sufficient to drive off substantially all free moisture whereby to produce softening of the flour glutens and blending of the cocoanut oil therewith.

1,944,882
SOLE LAYING MACHINE
Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 4, 1931. Serial No. 534,868
10 Claims. (Cl. 12—127)



8. A jack for holding a shoe against pressure having, in combination, a base, two arms pivoted on the base for relative swinging movement toward and from each other, a toe piece and a heel piece mounted respectively on said arms for adjustment toward and from the pivots, and a single means for swinging said arms into and holding them in different angular positions to provide for shoes of different lengths.

1,944,883
PROJECTILE PROPELLING APPARATUS
Hermann Gerlich, Kiel, Germany
Application December 4, 1930, Serial No. 500,040, and in Germany December 24, 1929
27 Claims. (Cl. 42—76)



1. Projectile propelling apparatus comprising a barrel having a breech chamber and a bore consisting of three sections, namely, a muzzle section remote from the breech chamber and of substantially normal dimensions for the projectiles for which the barrel is designed, a substantially cylindrical section adjacent to and following the breech chamber, such section being of enlarged diameter as compared with the substantially normal diameter of the muzzle section, and such cylindrical section extending along the barrel for a substantial length sufficient to enable a projectile passing through this section to be subjected whilst therein to the action of the propelling gases during the time they are at their higher pressures, and a section connecting such substantially cylindrical section to the muzzle section and decreasing (from the cylindrical section end of the barrel to the muzzle section end thereof) gradually from the diameter of the said enlarged substantially cylindrical section to the diameter of the muzzle section said connecting section extending over a relatively long portion of the bore.

1,944,884
BULLET
Hermann Ernst Gustav and Thorismund Gerlich, Kiel, Germany
Application March 6, 1931, Serial No. 520,566, and in Great Britain March 15, 1930
22 Claims. (Cl. 102—28)



22. A soft metal bullet having a protective coating comprising an outer skin of a residual solute of a cellulose.

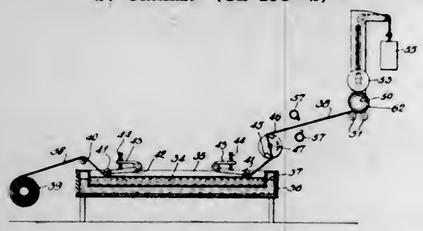
1,944,885
PROJECTILE
Hermann Gerlich, Bexley, England
Original application December 4, 1930, Serial No. 500,040, and in Germany December 24, 1929. Divided and this application December 21, 1932. Serial No. 648,288
9 Claims. (Cl. 102—26)



1. A projectile adapted to be fired from a barrel increasing in cross sectional area from the muzzle toward the breech chamber, comprising a substantially cylindrical body with a pointed nose and boat tail, said body having a pair of spaced circumferential ductile flanges thereon, such flanges being disposed substantially symmetrically relative to the centre of gravity of the said projectile and comprising the sole bearing surface throughout the major portion of the length of the barrel, such flanges being adapted to increase the gas pressure area of such projectile beyond that normal for a projectile having the same body calibre, and the body having a peripheral groove behind and at the root of each flange, and each of such grooves being of substantially the same volume as the adjacent flange, the body having a cylindrical part, equal in calibre to the maximum calibre of the body, extending from the front groove right to the rear flange, and the grooves and flanges being spaced from the ends of the projectile whilst the rear flange and groove are additionally spaced for-

wardly of the forward end of the boat-tailed portion of the projectile, a cylindrical body portion separating said groove and boat-tailed portion.

1,944,886
PAPER MAKING
Charles I. Goessmann, deceased, late of Providence, R. I., by Anna M. D. Goessmann, executrix, Brooklyn, N. Y.
Application April 6, 1933. Serial No. 664,811
27 Claims. (Cl. 154—2)

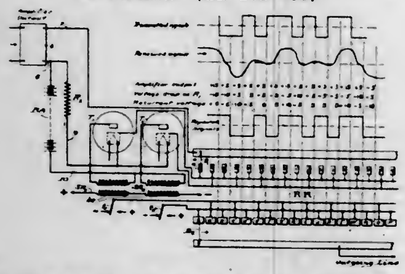


1. The process of making indurated paper which consists in impregnating raw stock paper with a nitrogenous colloid, immediately forming laminations of such impregnated stock prior to solidification, chilling such laminated stock, treating such chilled, impregnated and laminated stock with a fixing agent to render the colloid insoluble, and drying the resultant mass.

1,944,887
ESTERS AND METHOD OF PREPARING SAME
George De Witt Graves, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 3, 1931
Serial No. 548,715
8 Claims. (Cl. 260—106)

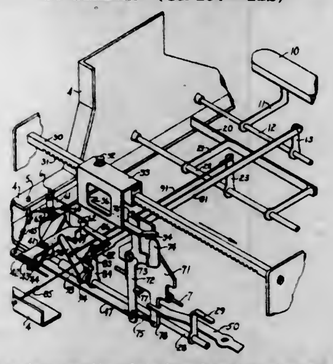
1. An ester conforming to the following formula: R-COO-R_1 in which R is a saturated aliphatic radical containing from five to twelve carbon atoms, and R_1 is the radical of a primary aliphatic alcohol containing from twelve to eighteen carbon atoms.

1,944,888
TELEGRAPH SYSTEM
Hakon H. Haglund, Flushing, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application January 19, 1931. Serial No. 509,798
9 Claims. (Cl. 178—70)



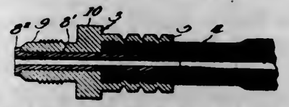
1. In a signaling system, apparatus for receiving from a line or cable impulses of short duration recurring in rapid succession, electromagnetic translating devices, thermionic gas-filled tubes having an input circuit including a grid element connected to receive said impulses and an output circuit including anode and cathode elements connected to said translating devices, said grid being of a fine mesh construction and completely enveloping said cathode whereby the output circuit is substantially unaffected by variations of positive grid potential after being started thereby but is immediately stopped by a critical negative grid potential.

1,944,889
TYPEWRITER LINE STOP
Edwin S. Hall, New Haven, Conn.
Application May 23, 1933. Serial No. 672,378
17 Claims. (Cl. 197—112)



1. In a typewriter having keys and a space bar mechanism, a carriage, means activated by the movement of the carriage for locking the keys when approaching the end of a line of writing, means for holding the said key locking means out of locking position, means operable by said space bar mechanism to release said holding means, and means operable by the movement of the carriage to release said holding means.

1,944,890
HOSE COUPLING
Joseph R. Heidloff, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application August 24, 1931. Serial No. 558,964
7 Claims. (Cl. 285—84)

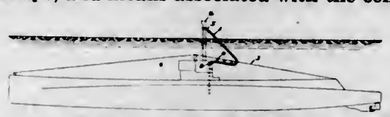


1. A coupling member adapted to be attached to the end of a hose, comprising a sleeve for receiving one end of said hose, a nipple extending through said sleeve and into the end of the hose, and annular axially weakened portions in said sleeve adapted to cause said sleeve to be deformed inwardly at spaced intervals when shortened by longitudinal pressure to clamp said hose against said nipple and interlock said sleeve and said hose.

1,944,891
ANTENNA
Harry H. Hill, United States Navy
Application October 14, 1931. Serial No. 568,797
6 Claims. (Cl. 250—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

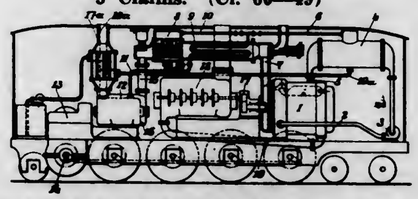
1. An antenna system for a submerged radio station, comprising an insulated conductor, one end of which is adapted for connecting with the transmitting and receiving apparatus, the other

end being adapted for securing to the top of a periscope, and means associated with the central



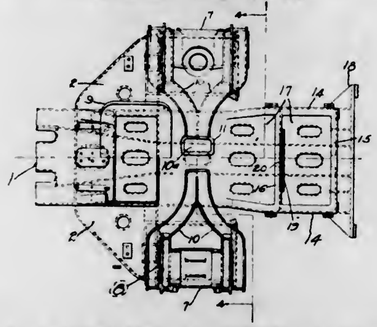
part of said antenna whereby the slack of the antenna is automatically adjusted as the periscope is raised or lowered.

1,944,892
EXPLOSION TURBINE PLANT
Hans Holzwarth, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Company, San Francisco, Calif., a corporation of Delaware
Application July 18, 1931, Serial No. 551,810, and in Germany July 26, 1930
5 Claims. (Cl. 60—49)



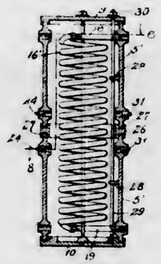
1. An explosion turbine plant comprising an explosion turbine including a plurality of constant volume explosion chambers adapted to be periodically charged with an explosive mixture for explosion therein, an expansion nozzle wherein the intermittent puffs of explosion gases are expanded to a pressure considerably above atmospheric, and an impulse rotor arranged to be driven by the puffs of gases discharged by said nozzles; a continuous current gas turbine; steam generating apparatus heated by the exhaust gases and by the heat abstracted from the explosion turbine for cooling the same; and a steam superheater; means for conveying to the latter the steam generated in said apparatus; a conduit for conducting the exhaust gases of the explosion turbine to said superheater; a second conduit for conducting the gases to part of the steam generating apparatus; and a third conduit for conducting the thus cooled gases to the continuous current gas turbine.

1,944,893
LOCOMOTIVE STRUCTURE
Karl S. Howard, Philadelphia, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application March 16, 1932. Serial No. 599,292
19 Claims. (Cl. 105—44)



2. In a locomotive, an underframe structure including spaced boiler supports and valve chambers at each side of said structure, a smokebox supported by at least one of said boiler supports, and exhaust steam pipes extending between said supports from said chambers to said smokebox, said pipes being spaced throughout their lengths from each other and from the remaining portions of said structure.

1,944,894
WATER HEATER
Edward Kennedy, New York, N. Y.
Application February 18, 1932. Serial No. 593,715
3 Claims. (Cl. 257—229)



1. A water heater comprising a plurality of tank body sections adapted to be arranged in superposed relation, a ring interposed between adjacent body sections of the tank and having annular channels receiving sealing gaskets and the ends of the respective body sections, closure heads for the lower and uppermost sections of the tank, the body walls of said tank sections being provided internally thereof with apertured lugs, tie rods extended through said sections and threaded in the lower closure head and extending through apertures in the upper closure head, and clamping means threaded upon the upper ends of the tie rods engaged with the latter closure head.

1,944,895
CORRUGATED SHEATHING AND PROCESS OF FORMING SAME
John W. Ledeboer, Ambler, Pa., assignor to Ambler Asbestos Shingle & Sheathing Company, a corporation of Pennsylvania
Application March 11, 1931. Serial No. 521,773
5 Claims. (Cl. 154—33)

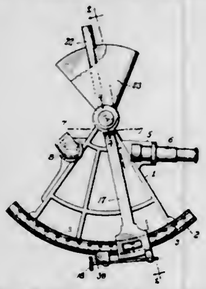


5. The method of forming asbestos cement sheathing comprising mixing asbestos fibres and cement with water and working the mixture into substantially flat sheet form with the fibres extending parallel to the plane of the sheet, immediately preforming said sheet while plastic over a corrugated filter screen and with fibres extending parallel to the surface of the screen at each point thereof, pressing said sheet between dies permitting the excess liquid to drain away and acting to compact the material to greater density between the bends of the corrugations, and then allowing said pressed sheet to set permanently in corrugated form and with the opposite faces substantially identical in contour.

1,944,896
MANUFACTURE OF CELLULOSE ETHERS
Alfred Stoyell Levesley, Saltcoats, and Frederick Charles Randall, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 6, 1931, Serial No. 542,694, and in Great Britain June 11, 1930
13 Claims. (Cl. 260—152)

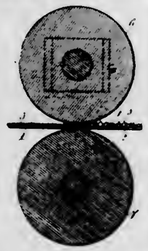
1. Process for the manufacture of cellulose ethers yielding low viscosity solutions which comprises digesting a cellulose ether yielding high viscosity solutions with dilute acids in the presence of a considerable quantity of a water soluble salt.

1,944,897
ANGLE DETERMINING INSTRUMENT
Paul H. Macneil, Huntington, N. Y.
Application November 24, 1930
Serial No. 497,922
18 Claims. (Cl. 88—1)



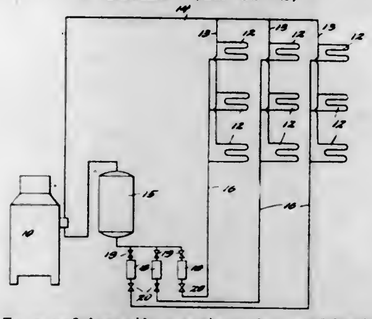
1. An angle determining instrument including a frame provided with an arc bar having degrees marked thereon, a swinging arm coacting with said arc bar, said arm having a tubular extension, and a heat detector arranged coincident with the pivotal center of the arm and in alignment with the tubular extension whereby when the arm is pointing towards a body radiating heat said detector will be made active, and means connected to the detector for indicating the activity thereof.

1,944,898
ABRASIVE ARTICLE
Joseph McKee, Norwood, Mass., assignor, by mesne assignments, to Union Sandpaper Company, Boston, Mass., a corporation of Massachusetts
Application December 31, 1929
Serial No. 417,727
3 Claims. (Cl. 51—278)



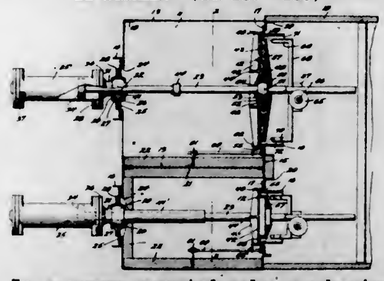
1. In the manufacture of abrasive coated articles, the step consisting of breaking off substantially all of the abrasive particles that project beyond the level of the majority of the particles after the adhesive has set.

1,944,899
SAFETY DEVICE FOR REFRIGERATION SYSTEMS
Ernest B. Miller, Baltimore, Md., assignor, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland
Application April 8, 1930, Serial No. 442,598
Renewed April 19, 1933
7 Claims. (Cl. 62—2)



1. In a refrigeration system, in combination, a plurality of evaporators containing a liquid refrigerant, a refrigeration device remote from the evaporators and including a condenser and a condensate receiver, vapor pipe lines associating the low side of the evaporators and the refrigeration device, liquid pipe lines associating the high side of the evaporators and the receiver and means in said last mentioned pipe lines adjacent the receiver to limit the quantity of condensed refrigerant which can flow in each under the expanding action of the liquid in a predetermined period of time.

1,944,900
DAMPER VALVE
Ernest B. Miller, Baltimore, Md., assignor, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland
Application September 23, 1930, Serial No. 483,847. Renewed April 19, 1933
11 Claims. (Cl. 137—139)



1. In a power operated valve mechanism, in combination, a valve stem, a valve disk universally mounted on said stem, power means having a substantially stationary part universally mounted for alignment with the stem, and a movable part rigid with said stem.

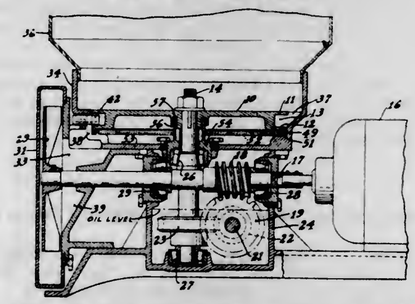
1,944,901
EYECUP
Henri L. Mock, Cleveland, Ohio
Application July 5, 1932. Serial No. 620,940
5 Claims. (Cl. 128—249)

1. A device of the character described comprising a rigid container having a transverse depressed wall forming an eye cup, said eye cup having an imperforated bottom being provided with a lateral opening disposed above the bottom of the cup and placing said cup in communica-



tion with the interior of the container whereby upon tilting of said container, liquid will flow from the same to the eye cup and settle in the bottom of the cup upon righting of the container.

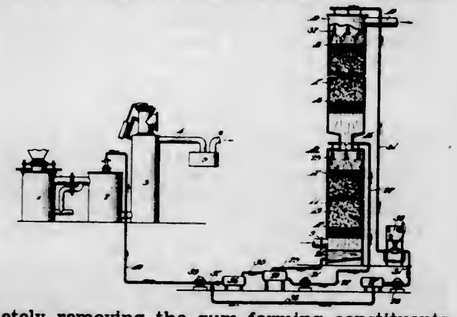
1,944,902
FEEDER FOR PULVERIZED MATERIALS
Walter W. Pettibone, Erie, Pa.
Application July 22, 1932. Serial No. 623,980
7 Claims. (Cl. 302—42)



1. In apparatus of the character described, a rotary horizontal table having flanges defining a peripheral groove in the table, a housing closely encircling the table and having a feed port therein giving access to the groove and having a discharge opening remote from the port, a feed hopper disposed above the table, and a scraper disposed adjacent the discharge opening and adapted to remove material from the groove.

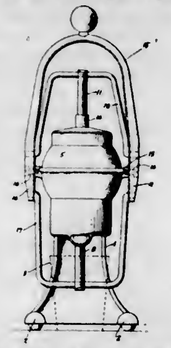
1,944,903
REMOVAL OF NAPHTHALENE AND GUM-FORMING CONSTITUENTS FROM GAS
Alfred R. Powell, Elizabeth, N. J., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application July 22, 1930. Serial No. 469,820
2 Claims. (Cl. 183—114.6)

1. The process of removing gum-forming compounds from fuel gas which comprises: scrubbing the gas with a large volume, per million cubic feet of gas, of solvent for gum-forming compounds which volume of solvent is substantially in equilibrium with the gas with respect to a predetermined content of light oil, and which is very large in comparison to the volume required to remove naphthalene to the same extent and of substantially the order of magnitude of a ratio that is directly proportional to the vapor pressures of naphthalene and of the gum-former and inversely proportional to their respective molecular weights and thereby substantially com-



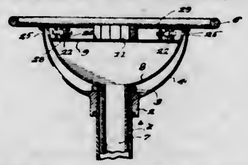
pletely removing the gum-forming constituents from the gas.

1,944,904
SQUEEZING APPARATUS
Arthur E. Read, Bronx, N. Y., assignor of one-half to Irving J. Henry, Garden City, Long Island, N. Y.
Application October 2, 1931. Serial No. 566,531
11 Claims. (Cl. 100—45)



1. In an apparatus of the character described, a pair of plungers mounted coaxially for movement toward and away from one another to squeeze fruit interposed between them, knives mounted on at least one of the plungers to cut the fruit and facilitate the flow of juice therefrom, said knives having sloping serrated edges to expedite the puncturing and subsequent cutting of the fruit, means for operating said plungers to act upon the fruit, and a retaining member positioned to embrace the fruit at substantially the mid portion thereof to limit lateral spreading of the fruit during the squeezing operation to a predetermined maximum.

1,944,905
INSTRUMENT PANEL
Elijah Hendrix Rowell, Tampa, Fla.
Application April 6, 1932. Serial No. 603,635
6 Claims. (Cl. 180—78)



6. In combination with a steering wheel, a support, said steering wheel being provided with

a housing, an inner housing mounted within said first mentioned housing, a supporting tube anchoring said inner housing, an instrument panel carried by said inner housing, and a removable cover carried by said inner housing and overhanging the upper end of said outer housing.

1,944,906

ABSORBENT FELT AND ARTIFICIAL LEATHER PRODUCT MADE THEREFROM

George L. Schwartz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application June 9, 1932. Serial No. 616,323

18 Claims. (Cl. 92—20)

1. A process which comprises treating mercerized but substantially unpurified paper pulp of pentosan content of more than 5% with water until the pulp is hydrated.

1,944,907

IMPREGNATED PAPER PRODUCT

Frank H. McCormick and George L. Schwartz, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 1, 1933

Serial No. 664,043

19 Claims. (Cl. 92—40)

1. As an article of manufacture, a sheet of felted artificially crinkled cellulose fibers impregnated with a mixture of drying oil and bituminous material, said fibers having a freeness of 15 to 40 seconds and having the substantially circular form in cross section which characterizes cellulose fibers treated with solutions of mercerizing activity.

1,944,908

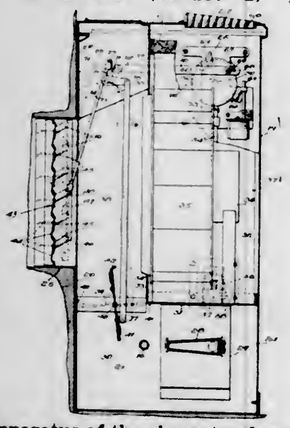
THERMAL AIR CONDITIONING UNIT

Wilfred Shurtleff, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a corporation of Illinois

Application November 25, 1930

Serial No. 498,096

14 Claims. (Cl. 237—1)



1. In apparatus of the character described, the combination of a direct radiator, a heating and ventilating unit having a heating appliance fitted thereinto and being provided with damper controlled inlets for the admission of indoor air from the room and external air, respectively, the heating and ventilating unit being provided with means for inducing suction of air from either of the inlets and causing a discharge of air from the unit, means for supplying a heating medium to the direct radiator and the unit heating appliance, and interconnected means for controlling the supply of heating medium to the radiator and heating appliance and for controlling the respective dampers in predetermined sequence.

1,944,909

BUNK

Raymond G. Thomas, United States Navy

Application April 6, 1932. Serial No. 603,598

7 Claims. (Cl. 5—9)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



7. In a bunk tier structure, stanchions adapted to be swung from a vertical to a horizontal position, cross-members between the stanchions, bunk frames, hangers swingedly supported from the cross-members and fixedly secured to the frames, said bunk frames being always parallel to each other and to the plane of the pivots of the stanchions, and means for lifting the stanchions to permit easy movement thereof.

1,944,910

EXPLOSIVE COMPOSITION AND METHOD OF MAKING

Clifford A. Woodbury, Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 23, 1931

Serial No. 539,630

14 Claims. (Cl. 52—22)

8. A method of manufacturing a dynamite composition which comprises preparing a substantially unbalanced explosive composition comprising nitroglycerin and less than the normal amount of non-explosive or "dope" ingredients required to produce a finished dynamite composition, compensating for the decrease in the amount of absorbent by introducing a small amount of nitrocotton so as to increase the viscosity and gelatinization of the product to hold the nitroglycerin in place against leakage, thereby producing a composition having physical characteristics rendering it safe for handling and transportation, and subsequently combining therewith the "dope" ingredients to produce a dynamite of lower nitroglycerin content.

1,944,911

TELEPHONE SYSTEM

Herbert M. Friendly, Portland, Oreg.; Milton S. Friendly and Central Republic Trust Company, executors of said Herbert M. Friendly, deceased

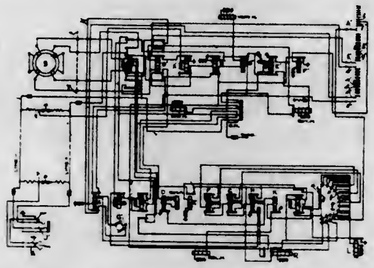
Application September 22, 1917

Serial No. 192,713

290 Claims. (Cl. 179—27)

1. The combination of a selector and a repeating coil, the latter for being introduced into the

circuits of the said selector, and a code switch responsive to a predetermined number of impulses



at the will of the operator after the selector has seized for controlling said coil introduction.

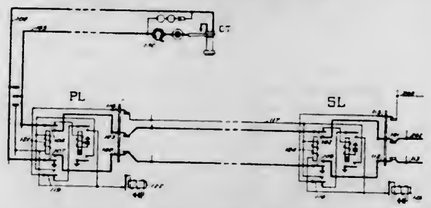
1,944,912

TELEPHONE SYSTEM

Herbert M. Friendly, Portland, Oreg.; Milton S. Friendly and Central Republic Trust Company, executors of said Herbert M. Friendly, deceased

Application August 6, 1923. Serial No. 655,851

95 Claims. (Cl. 179—18)



1. In an automatic telephone system, calling and called lines, switch mechanism, trunk linking switches, a calling dial on the calling line for transmitting series of directive control impulses, a storing device, an auxiliary switch, means whereby consequent upon the initiation of a call on the calling line the said mechanism will automatically connect the calling line to the auxiliary switch whereby the said auxiliary switch may be thereafter directly directively operated from the calling dial to connect with the storing device, means whereby the calling dial may be thereafter operated in correspondance with the calling number of the called line to set-up a condition in the storing device to cause it to automatically self-operate to successively directly control the said linking switches to extend a connection to the called line and thereafter automatically join the calling and called extensions and incidentally disconnect the storing device from the connection, means dependent upon a predetermined first series of directive control impulses constituted in the first digit of the calling number of the called line sent from the dial which will directly directively operate a first one of the linking switches from the dial, and means whereby when the latter said switch is operated it will be into connection with a successive trunk link of the call the storing device being incidentally disconnected from the connection whereby annexing from the dial the remaining digit series of directive impulses constituted in the calling number of the called line will be effective to directly directively progress the call from the said successive trunk link through the remaining said switches to the called line.
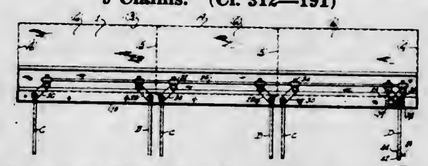
1,944,913

WARDROBE OR LOCKER

Frank Albach, St. Louis, Mo., assignor to Fred Medart Manufacturing Co., St. Louis, Mo., a corporation of Missouri

Application February 12, 1932. Serial No. 592,527

9 Claims. (Cl. 312—191)



9. In a wardrobe, a shell, pairs of opposed closures mounted swingably on the shell for closure thereof, means including series of arms having rigid connection with the closures and oppositely shiftable rods having pivoted connection with the arms for connecting the respective closures of each pair thereof in oppositely swingable series, and means including meshing rotary gears associated with certain of said arms, whereby operation of one of said doors will operate said rods for unison actuation of all of the closures for simultaneous opening and closing the shell.

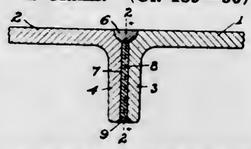
1,944,914

MEANS FOR MAKING THE JOINTS BETWEEN STRUCTURAL MEMBERS WATER TIGHT

Wilford G. Bartenfeld, Lorain, Ohio

Application March 6, 1931. Serial No. 520,689

1 Claim. (Cl. 189—36)



In means for making the joints between flanged structural members water-tight, the combination of flanged structural members, the flanged structural members being connected together at their flanges, the joint at the heel of said flanges being welded for its entire length to prevent leakage, packing fixed in said joint at a certain transverse point, the packing extending from said welding and short of the toes of said flanges, and the joint at the toes of said flanges and opposite said packing being welded for a short distance at each side thereof.

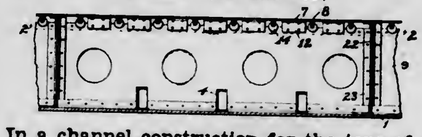
1,944,915

CHANNEL CONSTRUCTION FOR THE TOPS OF TANKS OF VESSELS

Wilford G. Bartenfeld, Lorain, Ohio

Application May 7, 1931. Serial No. 535,671

1 Claim. (Cl. 114—79)



In a channel construction for the tops of the tanks of vessels, the combination of channels, the channels being inverted, a center keelson, side keelsons, said channels extending transversely from one side keelson to the other, said channels having their flanges resting upon the upper edges of said center keelson, and plates fixed to

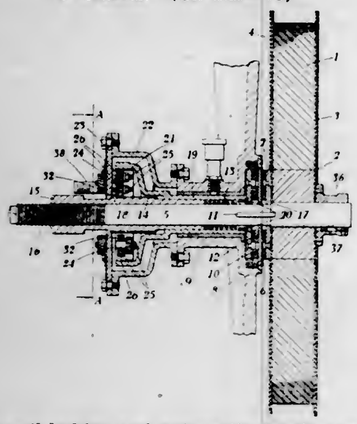
said center keelson and extending upwardly between the flanges of said channels for preventing water flowing transversely from one side of said keelson to the other.

1,944,916
MEANS FOR CONTROLLING THE TENSION IN STRIPS OF FLEXIBLE MATERIAL WHILE BEING DRAWN FROM COILS OR ROLLS

Charles James Beaver and Thomas James Fairfield, Bowdon, and Frank Smith, Stretford, England

Application February 25, 1932, Serial No. 595,210, and in Great Britain March 31, 1931

6 Claims. (Cl. 242—75)



1. A coil holder and automatic tension control mechanism combined in a unit comprising the coil holder, a spindle on which the said coil holder is mounted, a brake acting on the coil holder, a spring exerting force on the brake, an adjustable rotary member controlling the spring, a rotary driver connected with the coil holder, a driven member connected with the said adjustable rotary member, at least two trains of gearing of different ratios and means for supporting each train and providing for such train being moved into engagement with the driver and driven member as required.

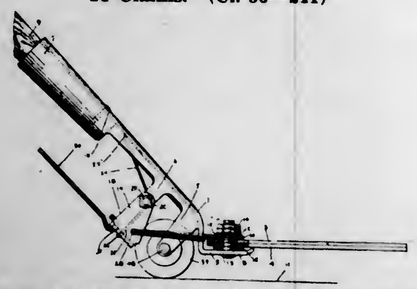
1,944,917
SHEARS

William H. Bergmann, Cleveland, Ohio, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio

Application November 21, 1930

Serial No. 497,300

14 Claims. (Cl. 56—241)



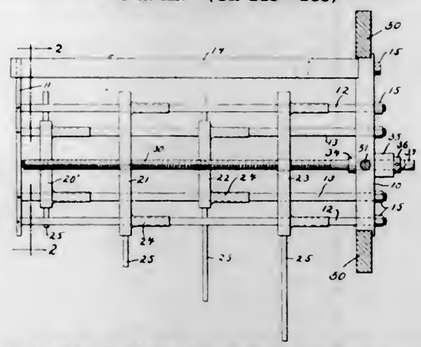
1. In a grass shear, a pair of co-operative bell crank shear blades comprising longitudinally extending shear portions and arms extending laterally therefrom, a horizontal sheet metal support therefor, said blades hinged on said support for lateral horizontal oscillatory movement of the shear portion effected by the transmission of longitudinal reciprocatory movement to the said arms, a long handle secured by an end of said support and reciprocable means extending longitudinally of said handle for reciprocating the arms and means on the other end of the handle for reciprocating the reciprocable means.

1,944,918
SAW TABLE GAUGE

Frank Bielaski, Detroit, Mich.

Application February 29, 1932. Serial No. 595,714

4 Claims. (Cl. 143—168)



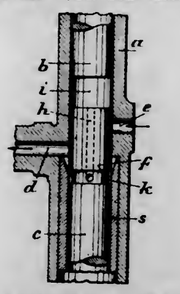
1. A sawing gauge comprising a frame including longitudinally arranged slide bars, a plurality of slidably mounted supporting members having laterally extending bearing portions engaging said slide bars, alternate ones of which bearing portions being carried by different ones of said slide bars to permit their partial interfitting, a limiting member carried by each supporting member and projecting yieldably downwardly therefrom, and means for sliding said supporting members independently to enable fixing them and their supported limiting members in predetermined positions.

1,944,919
FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES

Bernhard Bischof, Waldheim-Winterthur, Switzerland

Application March 10, 1933, Serial No. 660,205, and in Switzerland March 15, 1932

3 Claims. (Cl. 103—154)



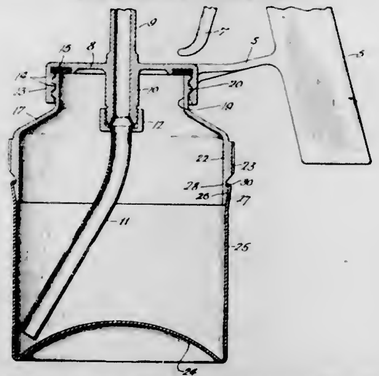
2. In a fuel-injection pump having a working chamber, a pump plunger, and a fuel-delivery port in the cylinder wall, and having an accumulator piston in combination with said working chamber, said pump plunger having an annular recess therein for establishing communication between the chamber and the port towards the end of the delivery stroke, and an annular conical recess in the cylinder wall, said delivery port opening at the maximum diameter of the annular conical recess in the cylinder wall.

1,944,920
PRESSURE-CUP FOR SPRAY APPLIANCES

Svend Bramsen, Chicago, Ill., assignor to Binks Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application August 26, 1931. Serial No. 559,449

5 Claims. (Cl. 220—4)



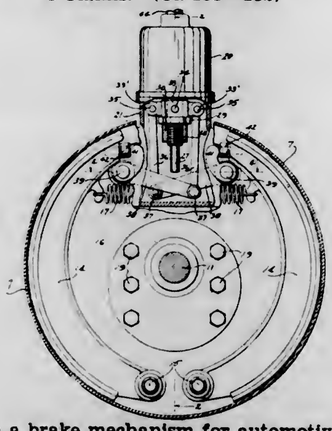
1. A receptacle of the class described, comprising an upper tubular section the lower portion of which has a downwardly and inwardly tapering frustro-conical outer face, the said upper section also having an upwardly flaring annular shoulder extending radially inward from the upper end of the said tapering face; and a cup-like bottom section having a flaring mouth portion in gripping and in tight fitting relation to the said tapering face portion of the upper section, the extreme upper end of the said mouth portion of the bottom section being turned inwardly to form an annular flange overhanging and engaging the said shoulder.

1,944,921
VEHICLE BRAKE MECHANISM

Niels A. Christensen, Cleveland, Ohio

Application July 11, 1928. Serial No. 291,835

5 Claims. (Cl. 188—152)



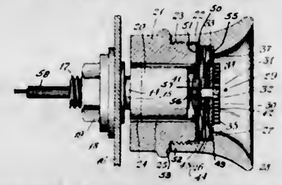
4. In a brake mechanism for automotive vehicles, the combination with a brake including a brake drum and brake shoes engageable with said drum, of a support for said shoes, a housing mounted on said support, a brake cylinder on said housing, a pressure responsive member associated with said cylinder and provided with an actuating member within said housing, multiplying levers having their longer arms in crossed relation and extending respectively beyond the axis of said actuating member, said arms being mounted in said housing and being operatively connected to said actuating member at their ends, the other arms of said levers being operatively connected with said shoes, and means to move said shoes and levers to release position.

1,944,922
IGNITING DEVICE FOR CIGAR-LIGHTERS

Joseph H. Cohen, Bridgeport, Conn.

Application September 8, 1928. Serial No. 304,745

8 Claims. (Cl. 219—32)



1. A heating element for cigar-lighters comprising a coil of high resistance wire; a disk on the top of which the coil is supported; a spring spider carried by said disk on the bottom thereof and fixedly united thereto and adapted to yield when the heating element is clamped between two parts of a holding device; and means holding said coil, disk and spider in superposed connected relation.

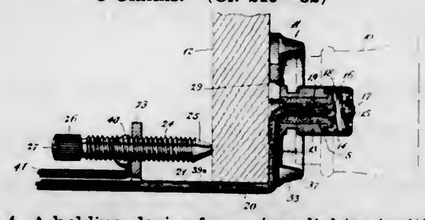
1,944,923
CIGAR-LIGHTER

Joseph H. Cohen, Bridgeport, Conn.

Application November 20, 1928

Serial No. 320,661

6 Claims. (Cl. 219—32)



4. A holding device for a cigar-lighter igniting unit comprising a U-shaped bracket having front and rear vertically extending arms, the former being adapted to lie against the front face of an instrument board and the portion between the front and rear arms being adapted to lie against the lower edge of the instrument board; and means on the front arm adapted to removably support an igniting unit, said bracket being provided in its front arm and the portion between the front and rear arms with vertical and longitudinal wire clearance passages respectively, so that a current supply wire leading to said means may lie adjacent the instrument board.

1,944,924
CIGAR-LIGHTER

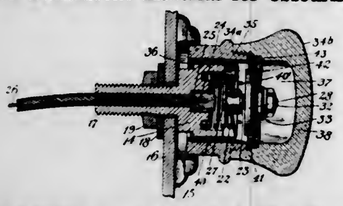
Joseph H. Cohen, Bridgeport, Conn.

Application April 4, 1929. Serial No. 352,376

14 Claims. (Cl. 219—32)

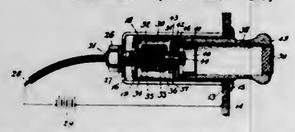
1. An electric cigar-lighter igniting unit adapted to be supported on a holder, and having

a heating element adapted to be electrically connected to the holder to be brought to incandescence, said igniting unit being completely removable from the holder for use and having a body made of translucent material for obscuring the



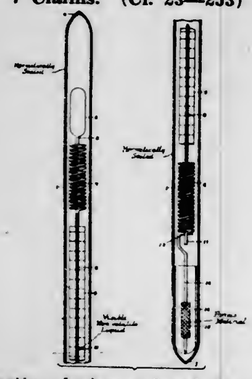
heating element from view and yet permitting the glow of light emanating from the heating element to be conducted through said body so that it may be observed by the user when the heating element is brought to incandescence.

1,944,925
CIGAR LIGHTER
Joseph H. Cohen, Bridgeport, Conn.
Application April 22, 1929. Serial No. 357,030
8 Claims. (Cl. 219—32)



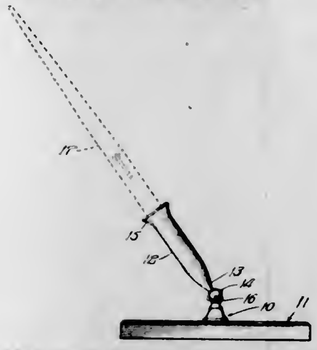
7. In an electric cigar-lighter, an igniting unit adapted to be mounted on a tubular holding device for quick removal and replacement, said igniting unit comprising: a cylindrical body portion adapted to extend into said tubular holding device; and a heating element mounted on the end of the body which extends into the tubular holding device, said heating element and body being made in light conducting relation and the body being of translucent material so that the glow resulting from incandescence of the heating element can be viewed by the user without removing the igniting unit from the holding device.

1,944,926
MEASURING INSTRUMENT OR TESTING DEVICE
Ivor Milton Colbeth, Belleville, N. J., assignor to The Baker Castor Oil Company, New York, N. Y., a corporation of Delaware
Application June 27, 1931. Serial No. 547,283
7 Claims. (Cl. 23—253)



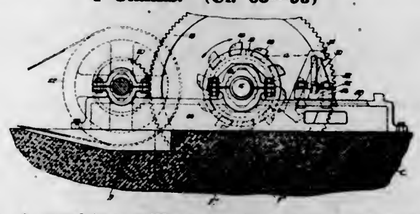
1. In a testing device, a closed chamber, a gas-filled bulb, a tube connected to said bulb and communicating with the interior of said chamber, a liquid plug in said tube and a mass of porous material in said chamber exposed to the medium in said chamber.

1,944,927
HOLDER FOR FOUNTAIN PENS
William R. Cuthbert, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa, a corporation of Delaware
Application August 16, 1929. Serial No. 386,304
11 Claims. (Cl. 120—108)



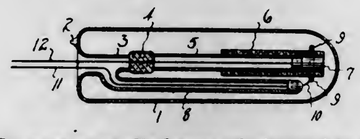
1. A holder for fountain pens comprising an elongated shell member having an open end, an insert in said open end for receiving the writing point end of said fountain pen, said insert comprising an elongated tubular member of substantially uniform diameter having inwardly extending ridges for engaging the barrel of said fountain pen, and a seat in said insert at one end thereof for sealing the exposed ink-feeding mechanism of said pen.

1,944,928
CRUSHING MILL
Mason B. Davis, Kendrick, Fla.
Application March 18, 1929. Serial No. 347,806
4 Claims. (Cl. 83—53)



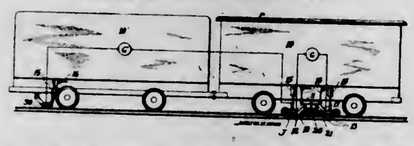
1. A crushing mill apparatus of the character described comprising, in combination, a breaker plate and a rotary drum-like cylinder having recesses formed in its outer surface arranged for cooperation with the breaker plate, the opposite side walls of said recesses being arranged to converge upwardly and to taper rearwardly, and slugger knobs inserted in the recesses, said slugger knobs comprising body portions projecting outwardly from the recesses, and base portions having their opposite side walls diverging downwardly to interfit with the side walls of the recess and tapering rearwardly also in interfitting relation with the side walls of the recess, whereby the slugger knobs are dovetailed against radial displacement and are wedged against circumferential displacement in a direction reverse to the direction of rotation of the roll.

1,944,929
GASEOUS DISCHARGE DEVICE
Lee de Forest, New York, N. Y., assignor to General Talking Pictures Corporation, New York, N. Y., a corporation of Delaware
Application July 13, 1929. Serial No. 377,937
8 Claims. (Cl. 176—122)



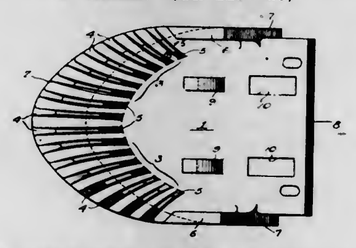
1. In a gaseous discharge photographic sound recording device of the type described, the combination comprising an envelope, a cathode within said envelope, an insulating sleeve surrounding the cathode with the exception of the end surface thereof, and an anode supported adjacent the exposed end surface of the cathode in close proximity thereto.

1,944,930
FLAW DETECTOR
Harcourt C. Drake, Hempstead, N. Y., assignor to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York
Application December 31, 1931
Serial No. 584,098
15 Claims. (Cl. 175—183)



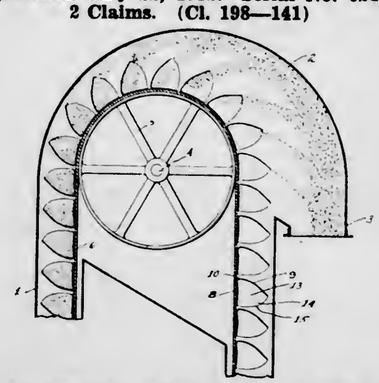
1. The method of detecting flaws in electrical conductors, consisting in energizing with flux in a given direction a portion of said conductor to be tested, detecting variations in said flux and pre-energizing a portion of said conductor in advance of said first portion in the same direction.

1,944,931
TUYÈRE
James A. Drogue, Noblesville, Ind., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 29, 1932. Serial No. 589,729
3 Claims. (Cl. 110—44)



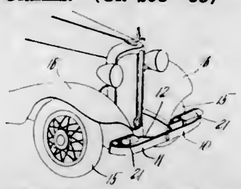
1. A tuyère plate adapted for assembly with similar plates in superimposed stepped relation to form an inclined tuyère, said plate having a plurality of locking elements disposed respectively at opposite sides of the longitudinal center line of the plate in widely spaced relation, and having rearwardly of said elements apertures for reception of the locking elements of the immediately overlying plate.

1,944,932
ELEVATOR BUCKET
Blaine B. Gemeny, Chicago, Ill., and Burt I. Weller, Highland, Ind.
Application July 22, 1932. Serial No. 624,004
2 Claims. (Cl. 198—141)



2. An elevator bucket for an endless chain elevator adapted to eject material therefrom after the chain reaches the upper limit of its vertical travel, comprising a container with an inwardly curved back wall adapted to be secured to the endless chain and conform with the periphery of the pulleys around which the chain is trained, a bottom wall curved outwardly to conform to the curvature of a segment of a logarithmic spiral, and side walls extending above the full load plane of the bucket to form side flaps, the upper edges of which conform to the curvature of a section of a hyperbolic spiral.

1,944,933
AUTOMOBILE BUMPER SHIELD
Clark Harwood, Auburndale, Mass.
Application August 15, 1933. Serial No. 685,205
6 Claims. (Cl. 293—55)

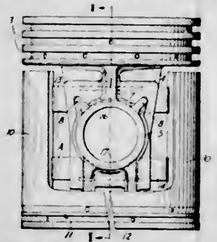


1. An automobile bumper shield comprising a piece of upstanding sheet material adapted to be secured to the rear face of a portion of an automobile bumper, said shield having an upper portion projecting forwardly so as to extend above and beyond the forward face of a bumper on which it is mounted.

1,944,934
PISTON
Frank Jardine, Cleveland, Ohio, assignor, by mesne assignments, to The Cleveland Trust Company, trustee, Cleveland, Ohio, a corporation of Ohio
Application August 6, 1928. Serial No. 297,594
2 Claims. (Cl. 309—13)

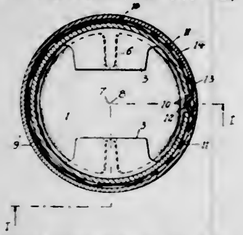
1. A piston composed of aluminum alloy and comprising a head having a depending cylindrical ring flange, opposed boss carrying piers integral with and depending from said ring flange, bracing webs integral with said piers, the inner side of said ring flange and the under side of said

head rendering said piers substantially, rigid with respect to said head, in the line of the wrist pin axis, a pair of skirt sections separated from each other and from said ring flange, each of said skirt sections being spaced from said piers and being formed with arcuate extensions below said piers extending toward corresponding extensions of the other skirt section and separated therefrom by a slot, a pair of columns integral with each of said piers and extending downwardly and outwardly from the wrist pin boss carried by said pier and integral with the adjacent arcuate extensions of said skirt sections, said columns being relatively rigid in the direction of the wrist pin axis and relatively flexible at right angles thereto, said arcuate extensions being relieved to permit the same to be spread apart by said piers upon expansion of the head without binding in



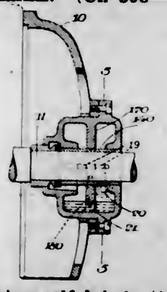
the cylinder, and a pair of control members composed of a material having a lower co-efficient of expansion than the material of the piston, each of said control members having its central portion embedded in one of said piers and its ends embedded in the spaced edges of said skirt sections above said arcuate extensions, each of said control members being bowed outwardly at its center and arranged in such a manner as to transmit forces to said skirt sections substantially all of which are directed inwardly of the adjacent outer surface of said skirt sections upon expansion of said head and consequent separation of said piers tending to move the ends of said control members closer together, to prevent any decrease in the curvature of said skirt sections upon the flexure and spreading of said arcuate extensions resulting from the separation of said piers.

1,944,935
PISTON
Frank Jardine, Cleveland, Ohio, assignor, by mesne assignments, to The Cleveland Trust Company, trustee, Cleveland, Ohio, a corporation of Ohio
Application October 14, 1929. Serial No. 399,425
2 Claims. (Cl. 309—5)



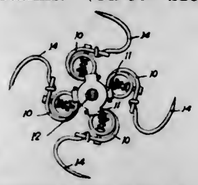
1. An internal combustion engine piston comprising a body portion, the outer surface of which is provided with a continuous circumferentially extending groove of uniform depth throughout and a radially extending recess in the bottom of the groove, a metal strip fitting in the groove against the base thereof and formed with a pressed-out tongue for interlocking engagement with the recess, a split ring of larger internal diameter than the base of the groove disposed in the groove and overlying said strip, interlocking means on the ends of said ring and on said strip for preventing separation of the ends of the ring, and an arcuate spring disposed in said groove beneath said ring and extending about the groove between and substantially in contact with the ends of said strip.

1,944,936
BEARING FOR ELECTRIC MOTORS AND THE LIKE
John D. Jones, Portland, Oreg.
Application August 15, 1931. Serial No. 557,203
9 Claims. (Cl. 308—131)



1. A non-leaking self-lubricating bearing comprising a cylindrical housing having end heads and constituting an oil reservoir, a shaft-bearing member extending through and encased by said housing, an extension encircling the bearing member and formed to provide communication between the lower portions of the compartments of the reservoir formed by said extension and having also oil circulating ducts leading from the oil-containing portion of the reservoir to the interior of the shaft-bearing member.

1,944,937
AGRICULTURAL IMPLEMENT
Cadwallader Washburn Kelsey, Short Hills, N. J., assignor to Rototiller Inc., Long Island City, N. Y., a corporation of Delaware
Application August 20, 1932. Serial No. 629,600
6 Claims. (Cl. 97—216)

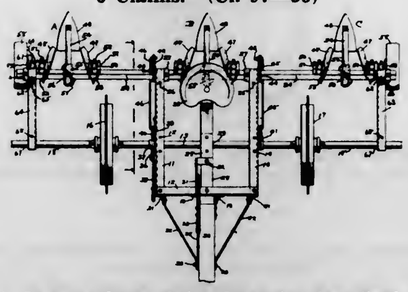


1. In an agricultural machine, in combination, a tool, a spring associated therewith and presenting a convolute structure and means engaging different spring portions for resisting an expansion of such convolutions.

1,944,938
ENAMELING COMPOSITION
Charles J. Kinzie, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 10, 1930
Serial No. 443,251
4 Claims. (Cl. 106—36.2)

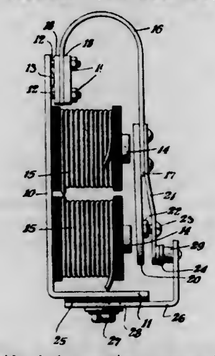
1. An enameling or glazing composition for direct application on metal initially comprising in the raw batch the following ingredients substantially in parts by weight viz: sodium zirconium silicate 10 to 43; aluminum hydrate 0 to 3; potash feldspar 0 to 48; quartz 0 to 24; sodium carbonate 0 to 11; sodium nitrate 3 to 5; calcium carbonate 0 to 8; cryolite 0 to 7; zinc oxide 4 to 14; fluorspar 0 to 11; and borax 23 to 47.

1,944,939
COMBINED ROW MAKER AND COVERER
Robert J. Kunderd, Elkhart County, Ind.
Application November 11, 1931
Serial No. 574,329
6 Claims. (Cl. 97—56)



1. In a machine of the character described, the combination of a main frame provided with an axle and carrier wheels, a revoluble carrier bar supported by said main frame, adjustable gauge wheels for supporting said carrier bar at a predetermined distance from the ground, a pair of spaced implement carrying shank elements mounted upon said carrier bar and projecting radially therefrom, an individual implement carrying shank element mounted upon said bar between said pair of shank elements and projecting radially therefrom at an angle in relation to said pair of shank elements.

1,944,940
MAGNETIC INTERRUPTER
William P. Lear, Chicago, Ill., and Marvin E. Nulsen, Indianapolis, Ind., assignors to P. R. Mallory & Co., Incorporated, Indianapolis, Ind., a corporation of Indiana
Application September 27, 1932
Serial No. 635,058
9 Claims. (Cl. 200—90)

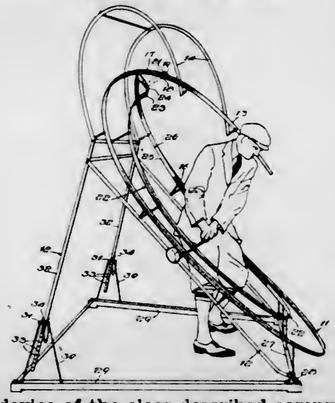


1. A magnetic interrupter comprising a relatively flat metallic base member, at least one magnetic coil core mounted on the face of said base member, a magnetic coil mounted on said core, a U-shaped armature support spring mounted on one end of said base member and having an elongated arm extending toward and substantially parallel with the face of said core, an armature mounted on said support arm and spaced from said core, an auxiliary reed mounted on said support spring in spaced relation to said armature to be moved therewith when said support spring is flexed by movement of said armature, a fixed contact point, another contact point mounted on said auxiliary reed for cooperation with said fixed contact point, adjustable means between said armature and said auxiliary reed to control the dimensions of the space therebetween while allowing relative movement between said armature and said auxiliary reed when the latter is stopped by said fixed contact point while both are being carried outwardly by recovery action of said support spring.

1,944,941
LUBRICATING OIL
Bert H. Lincoln and Alfred Henriksen, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
No Drawing. Application June 11, 1932
Serial No. 616,741
5 Claims. (Cl. 87—9)

1. A lubricating oil comprising in combination a hydrocarbon oil and a small quantity of a halogenated ester selected from the following group: halogenated esters of organic acids with monohydric alcohols, halogenated esters of organic acid with dihydric alcohols.

1,944,942
GOLF TEACHING AND PLAYING DEVICE
Robert G. MacDonald, Chicago, Ill.
Application March 22, 1930. Serial No. 438,190
13 Claims. (Cl. 273—35)

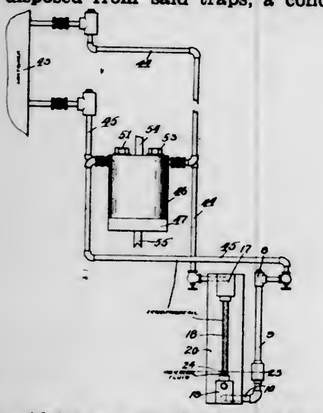


1. A device of the class described comprising a guide for directing a golf club during the swinging movement thereof, and means associated with said guide throughout a portion of its length in a manner to form a transverse guide for determining the angle of the golf club shaft when in engagement therewith.

1,944,943
LIQUID LEVEL INDICATOR
Frederic McNeill, Chicago, Ill., assignor, by mesne assignments, to T. W. McNeill, Chicago, Ill., doing business as Boiler Room Improvement Co.
Application October 13, 1928. Serial No. 312,227
1 Claim. (Cl. 73—54)

In combination, a liquid level indicator comprising a casing having a plurality of chambers

therein, said chambers being interconnected so as to form a pair of traps, indicating means remotely disposed from said traps, a conduit for



each of said traps connected to said indicating means, and means for passing steam through said casing for maintaining the same above a predetermined temperature.

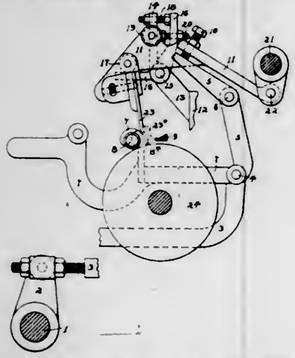
1,944,944

COMBING MACHINE

John William Nasmith, Heaton Mersey, Manchester, England

Application November 18, 1930, Serial No. 496,367, and in Great Britain May 13, 1930

4 Claims. (Cl. 19—121)



1. In a combing machine of the construction referred to, a detaching roller, a top comb carrier, means for imparting a usual lift to the top comb carrier and at the same time oscillating the detaching roller, and a reciprocating member connected to the top comb carrier which member is operated and timed independently of the top comb and roller oscillating means.

1,944,945

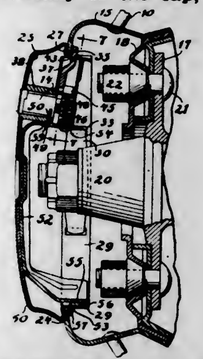
HUB CAP AND LOCKING MEANS THEREFOR

Charles H. Nehls, Detroit, Mich., assignor, by mesne assignments, to Eaton Detroit Metal Company, Cleveland, Ohio, a corporation of Ohio

Application September 18, 1933 Serial No. 689,851

8 Claims. (Cl. 70—90)

1. In a locking hub cap construction, a dished sheet metal cap member, a combined bracket, bracing and counterbalancing member formed of sheet metal secured inside and lying close to the cap and conforming generally to the configuration of its interior, said member extending generally diametrically of the cap, locking means



secured to said bracket at one end, and counterbalancing means for the locking means at the other end of said member.

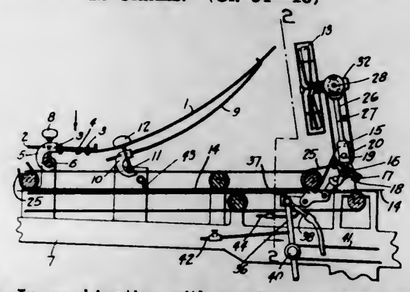
1,944,946

STATIC ELIMINATOR AND INK DRIER FOR PRINTING PRESSES

Anton G. E. Nordquist, Denver, Colo.

Application August 11, 1931. Serial No. 556,396

12 Claims. (Cl. 34—18)



1. In combination with a printing press, paper conveying means carried by the press, fans mounted upon the press to blow air downward toward and in the direction of travel of the moving printed paper, step pulleys carried by the fans and by the press, and belts driving the fan pulleys by the press pulleys, whereby the set ratio of fans and press may be varied, press-controlled gas burners adjacent the moving printed paper, and a deflector carried by the press to deflect the hot air rising from the flames of the gas burners as impelled by the fans along with the printed paper.

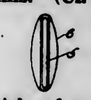
1,944,947

DEVICE FOR SPREADING AND ENLARGING MOTOR PISTONS

Johanes A. F. Osse, Sheldon, Iowa

Application June 16, 1933. Serial No. 676,162

3 Claims. (Cl. 309—12)



1. As a new article of manufacture, a single-piece spreading device for motor pistons, comprising an elongated wedge-like body adapted to be adjusted freely longitudinally of a sleeve-slot, and an elongated head provided centrally with a socket integral with said body.

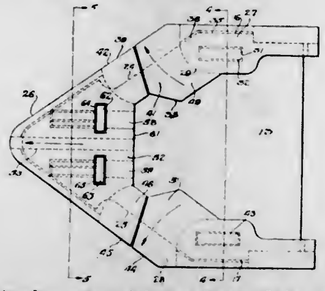
1,944,948

STOKER TUYÈRE

Herbert E. Preston, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 4, 1928. Serial No. 297,495

18 Claims. (Cl. 110—44)



1. A tuyère comprising a base plate provided with converging side edges forming a nose portion, a protective block detachably mounted on said nose portion and extending along said side edges, and a pair of protective side blocks positioned adjacent to said first-mentioned protective block, adjacent portions of said blocks being recessed to form air passages.

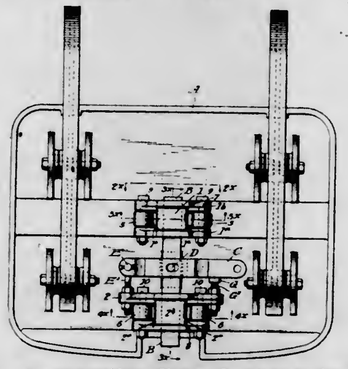
1,944,949

LATCH FOR DIPPER DOORS

Thomas A. Ratkowski, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a corporation of Maine

Application July 18, 1931. Serial No. 551,677

8 Claims. (Cl. 292—141)



1. In an excavating dipper having a door and a latch for said door, said latch comprising a bolt and a housing for said bolt; said dipper door being constructed with anchoring lugs; and said housing being constructed with bifurcated yokes embracing and secured to said anchoring lugs.

1,944,950

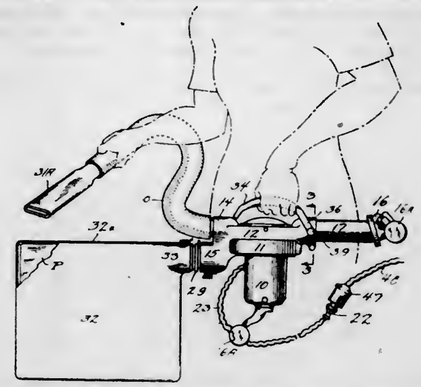
CONVERTIBLE SUCTION CLEANER

Frederick Riebel, Jr., Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware

Application June 6, 1932. Serial No. 615,499

7 Claims. (Cl. 15—9)

1. In combination, a suction cleaner including a fan casing having opposed air passage members, a handle including at one end a teat, one of said air passage members having a hole to receive said teat, said handle including at its other end a fork to embrace the other air passage member, the respective prongs of said fork having elements projecting toward each other, one of said elements



being retractible, and the air passage member embraced by the fork having a pair of opposed holes to receive said elements.

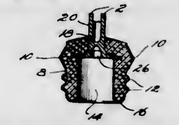
1,944,951

CAP FOR TIRE VALVE TUBES

Justin E. Ross, Kansas City, Mo.

Application September 1, 1932. Serial No. 631,307

6 Claims. (Cl. 152—12)



1. In a cap for tire valve tubes, a resilient body member having a cylindrical bore formed therein; and a metal, flanged insert embedded in said body portion with one end thereof extending outwardly therefrom and its inner end serving as an end wall for said bore.

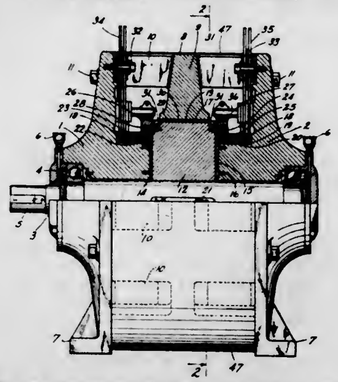
1,944,952

HOMOPOLAR GENERATOR

Frank K. Rouge, Mabbott B. Steele, and Erasmus D. Smith, Cleveland, Ohio, assignors to Steel and Tubes, Inc., Cleveland, Ohio, a corporation of Ohio

Application January 29, 1932. Serial No. 589,680

16 Claims. (Cl. 171—212)

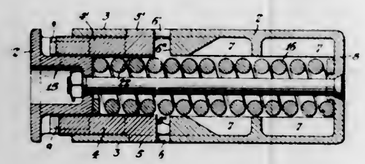


4. In a dynamo-electric machine, the combination with a pole piece having field coils, of a collector bus supplementing the field maintained by said field coils.

1,944,953
DRAFT GEAR

Ernest H. Schmidt, Cleveland Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio

Application September 4, 1930. Serial No. 479,686
19 Claims. (Cl. 213—24)

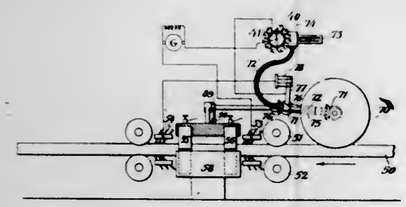


3. In a draft gear, movable friction members, shoes frictionally engageable with said members respectively, and movable longitudinally therewith a wedge engaging said shoe, means for successively arresting the movement of said friction members and thereby causing friction to be developed first between one of said shoes and its associated friction member and then between another shoe and its associated friction member during the travel of said wedge, and spring means opposing movement of said shoes.

1,944,954
FLAW DETECTOR FOR ELECTRICAL CONDUCTORS

Elmer A. Sperry, deceased, late of Brooklyn, N. Y., by Edward G. Sperry, executor, Brooklyn, N. Y., assignor to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York

Original application August 10, 1928, Serial No. 298,771. Divided and this application August 1, 1931. Serial No. 554,485
5 Claims. (Cl. 175—183)

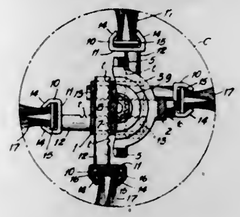


1. An apparatus for detecting defects in electrical conductors such as wire, cables, bars and the like, said conductor being adapted to be fed through the apparatus, comprising means for passing an electric current between spaced points as the conductor passes through the apparatus, a flaw-responsive means positioned adjacent said conductor between said points of current introduction, and means controlled by the approach of the end of said conductor to said apparatus for moving said flaw responsive means away from the conductor.

1,944,955
ENGINE CYLINDER BURNISHING DEVICE

Joseph Sunnen, Kirkwood, Mo.

Application April 30, 1932. Serial No. 608,372
1 Claim. (Cl. 15—195)

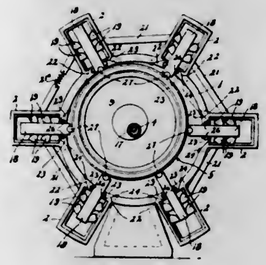


A burnishing brush comprising a channel-shaped body portion, a bristle retaining strip in the channel of the body portion and having marginal notches, bristle tufts looped around said strip and projecting from opposite notches, the outer parts of the sides of the body portion being crimped inwardly to hold the strip and bristle tufts securely to the body portion.

1,944,956
ROTARY ENGINE AND PUMP

Leo B. Thomas, Swampscott, Mass.

Application July 25, 1929. Serial No. 380,902
2 Claims. (Cl. 123—14)



1. In a rotary engine having a cylindrical rotor mounted eccentrically in the cylindrical bore of a stator, and a plurality of radial abutments mounted slidably in the stator, the combination therewith of packing means for the abutments, comprising inclined surfaces on the body carrying the abutments adjacent to each side of an abutment; triangular strips seated for small movement on said inclines; each of said strips having a plane surface closely adjacent to the side of an abutment, and each said plane surface having a longitudinal half round groove therein; and a half round packing strip seated loosely in each said groove, for slight oscillation, with its plane face projecting into square contact with the side of a vane.

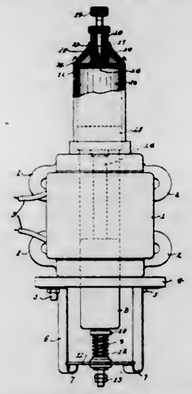
1,944,957
RELAY

Olof Thompson, Long Island City, N. Y., assignor to Takamine Corporation, Long Island City, N. Y., a corporation of New York

Application July 10, 1931. Serial No. 549,932
6 Claims. (Cl. 188—94)

1. In combination a piston, a cylinder in which said piston moves, a valve for controlling the rate

of movement of said piston, and a member hav-



ing a tapered circumferential edge acting as a dust guard for said valve.

1,944,958
PURIFICATION OF AROMATIC ALCOHOLS

Ludwig Valik and Irene Valik, Charleston, W. Va.

No Drawing. Application June 1, 1932
Serial No. 614,840
6 Claims. (Cl. 260—153)

1. A process for the purification of aromatic alcohols comprising adding a mineral oil to the impure alcoholic mixture, heating the whole mixture and separating the resulting pure aromatic alcohol.

1,944,959
MANUFACTURE OF AROMATIC ALCOHOLS

Ludwig Valik and Irene Valik, New York, N. Y.

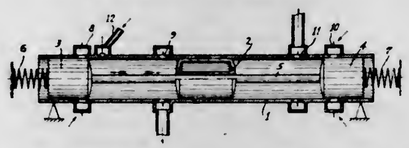
No Drawing. Application March 20, 1933
Serial No. 661,844
13 Claims. (Cl. 260—153)

1. A process for the manufacture of aromatic alcohols comprising reacting an aromatic hydrocarbon with a gaseous mixture of alkylene oxide and inert gas in the presence of an acid condensing agent.

1,944,960
CRANKLESS MOTOR-COMPRESSOR

Roman Witkiewicz and Adam Wicinski, Lwow, Poland

Application October 11, 1930, Serial No. 488,040, and in Poland December 24, 1929
2 Claims. (Cl. 230—56)

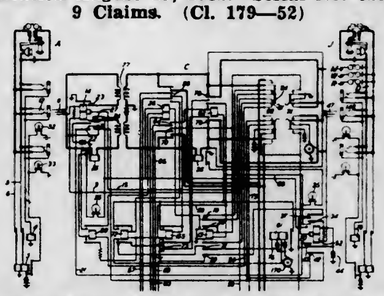


1. A crankless motor compressor comprising in combination: a stationary cylinder; a working piston reciprocable in said cylinder; two auxiliary cover-pistons connected together and arranged on opposite sides of the working piston; means for controlling the admission and delivery of the motive fluid, and means for controlling the admission and delivery of the fluid pumped, substantially as described.

1,944,961
TELEPHONE SYSTEM

Rand S. Bailey, Montclair, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York

Application August 19, 1932. Serial No. 629,553
9 Claims. (Cl. 179—52)



1. In a telephone system, a calling and a called subscriber's line, an operator's cord circuit interconnecting said lines for conversation, an operator's telephone disconnected from said cord circuit during the conversation, means for connecting said telephone to said cord circuit, a source of audible frequency current, means responsive to the calling subscriber hanging up at the close of the conversation and a subsequent recall before said cord circuit is disconnected from the calling line to actuate said connecting means and to momentarily connect said audible frequency source to said operator's telephone.

1,944,962
MANUFACTURE OF EDIBLE FATS

Bruno Behrend, Berlin, Germany

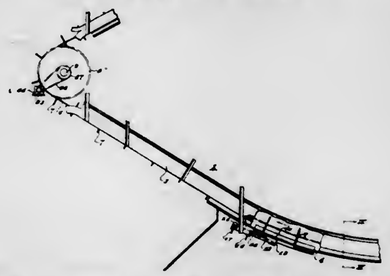
No Drawing. Application February 16, 1933, Serial No. 657,101, and in Germany February 20, 1932
11 Claims. (Cl. 99—13)

9. In the manufacture of margarine, churning the fat mixture with soured skimmed milk having lecithin and malt extract dispersed therein.

1,944,963
MATERIAL SAMPLING SYSTEM

Jesse D. Bradford, Edgewood, and William S. McAleer, Bellevue, Pa., assignors to The Koppers Company of Delaware, a corporation of Delaware

Application January 31, 1931. Serial No. 512,592
5 Claims. (Cl. 73—21)



2. In combination with a flight conveyor, a sampling gate, a device for operating said gate, electromagnetic control means for said device, a time relay, means for controlling said control, means connected to and operating in timed relation to the operation of said conveyor for pe-

riodically energizing said time relay means and thereby causing said electromagnetic control means to open said gate, maintain said gate open for a predetermined time interval, and then close said gate.

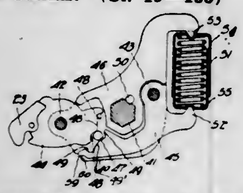
5. In combination with a conveyor comprising a trough, and flights in said trough, said trough having a sampling aperture therein, a longitudinally sliding gate for said aperture, means for opening said gate as the front flight of a pair of adjacent flights passes the front edge of said aperture, means for closing said gate as the rear flight reaches the front edge of said gate, and means operatively connected to and operatings in timed relation to the movement of said flights for controlling the opening and the closing means for said gate.

1,944,964
RIBBON FEED
Thomas I. Brown, Los Angeles, Calif., assignor to William J. Pearson, Los Angeles, Calif.
Application October 23, 1931. Serial No. 570,627
7 Claims. (Cl. 197—162)



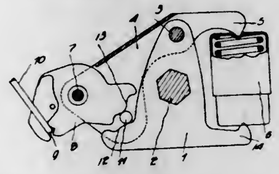
1. In a device of the character described, a pair of ribbon spindles, a gear on each of said spindles, a shaft adjacent said spindles, and ribbon-reversing means on said shaft adjacent one end thereof, said means comprising gears engaging said spindle gears, ratchet wheels associated with said gears, a rock arm on said shaft, a bearing arm rockably supported on said rock arm, and spring-tensioned ratchet elements carried by said bearing arm for engaging one or the other of said ratchet wheels.

1,944,965
PRESSURE APPARATUS FOR THE DRAWING MECHANISM OF TEXTILE MACHINERY
Fernando Casablancas, Sabadell, Spain
Application June 21, 1932, Serial No. 618,529, and in Spain December 31, 1931
4 Claims. (Cl. 19—135)



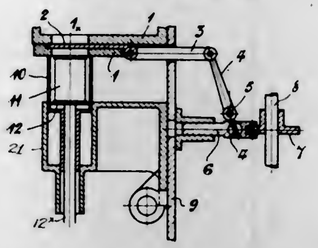
1. In a pressure apparatus for the drawing mechanism of textile machinery comprising a frame, means for supporting the frame, a pair of levers pivotally mounted in the frame one behind the other, each of the levers having an end portion cut away to form a substantially arcuate outline terminating with projecting lips, the said end portions of the levers spaced apart to provide a limited runway between the arcuate end portions, a roller for movement in the runway to simultaneously engage the arcuate end portions of the levers, means associated with the rear lever to operate the front lever in one direction through contact with the roller, and means for operating the front lever in the reverse direction whereby movement is transmitted through the roller and rear lever to place the levers in the locked or inoperative position.

1,944,966
PRESSURE APPARATUS FOR THE DRAWING MECHANISM OF TEXTILE MACHINERY
Fernando Casablancas, Sabadell, Spain
Application August 20, 1932, Serial No. 629,713, and in Spain May 17, 1932
5 Claims. (Cl. 19—135)



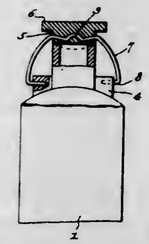
1. A pressure apparatus for drawing mechanism of textile machinery comprising a fixed frame, a lever pivotally mounted on said frame, spring means for forcing said lever in one direction, a second lever pivotally mounted on the first lever, a rotatable member carried by the frame to form a seat for one end of the second lever, and a pressure rod coupled to the other end of said second lever for transmitting the pressure exerted by said spring through said levers, the said rod manually operable to move the levers in the reverse direction into inoperative position.

1,944,967
VACUUM SEALING MACHINE FOR BOTTLES, CANS, AND THE LIKE
Frank Oscar Levi Chorlton, Bury, England
Application September 30, 1932, Serial No. 635,629, and in Great Britain October 16, 1931
6 Claims. (Cl. 226—82)



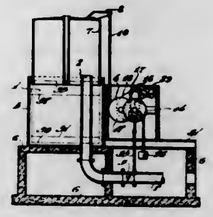
1. For a vacuum sealing machine for sealing bottles, cans and the like, a sealing chamber, with an aperture leading therein, a movable sealing cylinder external of said sealing chamber, a vessel-support movable within said sealing cylinder, a movable disc-like member capable of being automatically and periodically passed above said sealing cylinder and across said aperture of said sealing chamber for closing the said aperture therein in an air-tight manner, after the withdrawal of the vessel-support, for the purpose and as herein set forth.

1,944,968
CAP FOR PASTE TUBES AND THE LIKE
Thomas L. Daniel, Los Angeles, Calif.
Application January 17, 1933. Serial No. 652,230
1 Claim. (Cl. 221—60)



In combination with a tube having a neck formed with a ridge-shaped end and lugs on the top of the tube and connected with the lower part of the neck, a cap having a solid body with a flange on its upper end, said cap having a V-shaped recess in its lower end for receiving the ridge end of the neck when the cap is in closing position and a substantially U-shaped spring wire having its bight part passing through the body of the cap and embedded therein, said bight portion having a loop portion also embedded in the body of the cap, the limbs of the wire extending outwardly and downwardly and having their extremities bent inwardly and pivoted in the lugs.

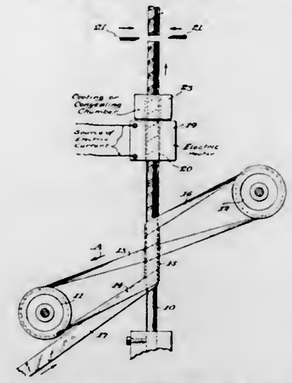
1,944,969
GAS HOLDER VALVE
Robert S. Deans, Swissvale, Pa., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application May 15, 1929. Serial No. 363,149
11 Claims. (Cl. 48—176)



1. In automatic mechanism for controlling a gas holder valve, a holder for storing gas and having a movable member, a cable attached to said movable member, a winding drum for the cable, a cam, reduction gearing between the winding drum and the cam and means for connecting the cam and the valve.

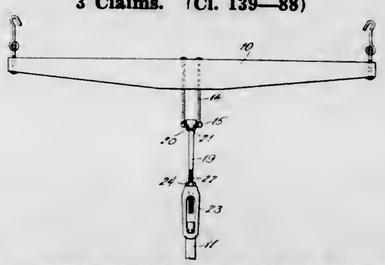
8. Apparatus comprising a gas storage holder having a movable member, a gas main connected to said movable member, a valve in the gas main and mechanism for utilizing movement of said member for actuating the valve and comprising a cam with a portion that maintains the valve open while said member is within the lower part of its travel, a portion that closes the valve as the holder rises through the intermediate part of its travel and a portion that maintains the valve closed while said member is within the upper part of its travel.

1,944,970
CONTINUOUS METHOD OF MAKING SHEET CELLULOSE TUBES
Otto W. Dieffenbach, Baltimore, Md.
Application July 29, 1933. Serial No. 682,860
5 Claims. (Cl. 93—94)



1. The continuous process of making integral, continuous sealed tubes of circular cross section from strips of sheet cellulose material, which comprises coiling said material into tubular form about a mandrel, with helical overlapping edges, and uniting the overlapping portions by feeding the tube from the mandrel forwardly through a heated area sealing the overlapping helical edges.

1,944,971
LOOM HARNESS OPERATING MECHANISM
Herbert I. Emmons, Methuen, Mass.
Application November 12, 1932
Serial No. 642,425
3 Claims. (Cl. 139—88)

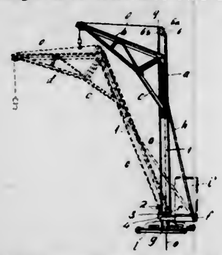


1. In combination with a loom jack and treadle, a U-shaped hanger secured to the jack; a bearing block having a flat portion mounted in the hanger; a connecting rod carrying a hook having a restricted throat or entrance and removably interlocked with the bearing block; and an adjustable connection between the lower end of the rod and the treadle.

1,944,972
TRANSFORMABLE LIFTING APPLIANCE
André Faure and Antoine Faure, Firminy, Loire, France
Application February 9, 1932, Serial No. 591,832, and in France February 28, 1931
5 Claims. (Cl. 212—59)

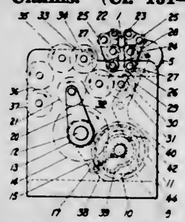
1. In a lifting appliance the combination of a post apertured at regular intervals, a truss having two sides of unequal length apertured at their ends at distances which are integral multi-

ples of the spacing of the apertures in said post, and means adapted to traverse two end apertures



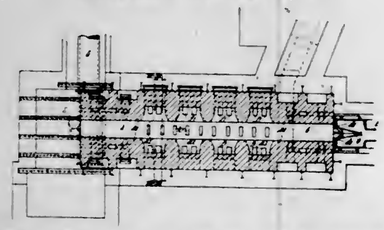
in said truss and apertures in said post to secure said truss to said post by either of its said sides.

1,944,973
CIGAR-WRAPPING DEVICE
Karl Erik Granstedt, Stockholm, Sweden, assignor to Aktiebolaget Formator, Stockholm, Sweden, a joint-stock company of Sweden
Application April 6, 1933, Serial No. 664,814, and in Germany April 25, 1932
6 Claims. (Cl. 131—45)



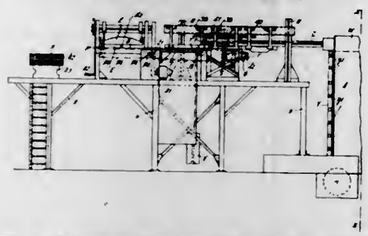
1. In a cigar-wrapping device in combination a bunch rolling mechanism, a driving mechanism for said rolling mechanism, a cutter, and automatic means for releasing said driving mechanism from engagement with said rolling mechanism at a predetermined moment, for subsequently causing the cutter to nick the end portion of the wrapper, and for thereafter reengaging the driving mechanism with the rolling mechanism.

1,944,974
FURNACE FOR ANNEALING METAL SHEETS BY A CONTINUOUS PROCESS
Ernest Griffiths, Liverpool, England
Application May 12, 1930, Serial No. 451,748, and in Great Britain May 21, 1929
6 Claims. (Cl. 263—8)



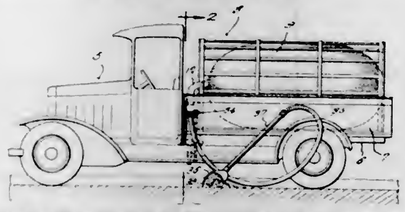
1. In a furnace for heating metal sheets, in combination:—an endless conveyor traversing the upper portion of the furnace longitudinally; means carried by the conveyor by which the sheets are detachably secured to the conveyor by their upper edges arranged in line so that they hang down vertically as they are carried by the conveyor through the furnace; a series of longitudinally spaced inlets opening into the furnace and disposed in two sets, one on each side of the bottom of the furnace; a series of burners supplied with air and fuel and connected respectively to said inlets; a series of longitudinally spaced outlets from the furnace located at the center of the bottom of the furnace and connected to an exhaust flue; division walls respectively located between the inlets and the outlets and extending above the floor of the furnace; and a recess in the wall of the furnace above each inlet, said recesses tapering inwardly and upwardly to the top of the furnace.

1,944,975
APPARATUS FOR TREATING METAL SHEETS
Evelyn Edwin Griffiths, Blundellsands, England
Application November 30, 1931, Serial No. 578,103, and in Great Britain December 3, 1930
20 Claims. (Cl. 263—8)



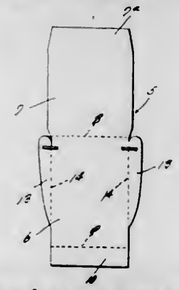
1. In a furnace for treating metal sheets, in combination:—a furnace; an endless conveyor one part of which traverses the upper portion of the furnace longitudinally; members adapted to carry the sheet attachment means and each connected to the conveyor by means which permit substantial vertical movement between the member and the conveyor; sheet attachment means comprising a sheet engaging part fixed to the said member, and a gripper carried by the said member and movable relatively to the said sheet engaging part; and longitudinal cam bars adapted to operate the grippers.

1,944,976
VACUUM GATHERER
Eugene B. Hamilton, Boston, Mass.
Application February 26, 1932. Serial No. 595,380
1 Claim. (Cl. 183—51)



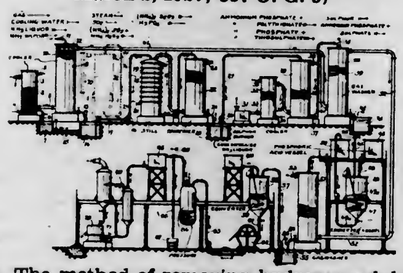
In a gathering machine of the class described, a horizontally arranged cage of cylindrical cross section and including a front end member having a centrally arranged opening therein, spaced slats having their front ends connected to said end member, a rear end member connected to the rear ends of said slats, said rear end member including a hoop encircling the rear ends of said slats and a pair of oppositely arranged narrow side members having an arcuate-shaped outer edge and a straight inner edge, the arcuate edges being connected with the hoop, said hoop and side members forming an opening, a pair of doors closing said opening and hinged to said side members and a bag of flexible material and of a mesh to permit air to pass therethrough, located in but disconnected from said cage and free to be removed therefrom when the doors are opened, said bag having rounded and closed ends with a tubular neck on the front end of the bag adapted to be connected to a conduit passing through the front opening of the cage and connected to a suction device.

1,944,977
MATCH BOX
Eugene B. Hamilton, Boston, Mass.
Application April 25, 1932. Serial No. 607,427
1 Claim. (Cl. 206—29)



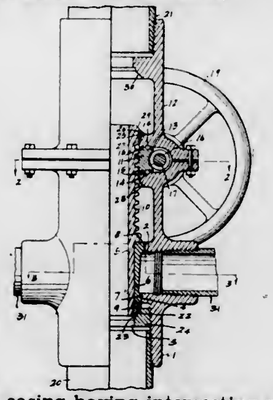
In a match package, in combination, a back member, side wings, constituting walls for the package, integral with the back member and foldable a position at right angles to the back member, and L-shaped resilient bracing members secured to the back member and side wings respectively, each of said resilient brace members having one arm extending transversely of a side wing at the inner side of the wing, and a second arm extending transversely of the back member at the inner side of the back member.

1,944,978
REMOVAL OF AMMONIA AND HYDROGEN SULPHIDE FROM GASES
Christian Johannes Hansen, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a corporation of Delaware
Application January 25, 1932, Serial No. 588,793, and in Germany January 24, 1931
4 Claims. (Cl. 23—225)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



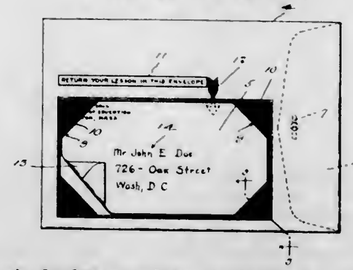
3. The method of removing hydrogen sulphide from gases containing the same comprising, treating a solution of ammonium thiosulphate with phosphoric acid to form ammonium phosphate and ammonium thionate therefrom, and washing the gas with the liquid thereby formed to remove hydrogen sulphide from the gas.

1,944,979
VALVE MECHANISM
Odie L. Hastings, Houston, Tex.
Application April 20, 1931. Serial No. 531,491
4 Claims. (Cl. 251—20)



1. A valve casing having intersecting passageways, tubular valve means co-axial with, and longitudinally movable in, one of said passageways into one position to open the other passageway and into another position to close said other passageway, and means for moving said valve means, and sealing means about said valve means to prevent the passage of fluid about said valve means while in either of said positions.

1,944,980
ENVELOPE
Edmund William Hayes, Arlington, Mass.
Application December 16, 1932
Serial No. 647,645
6 Claims. (Cl. 229—72)

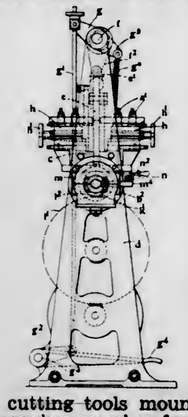


1. A duplex envelope, including an envelope assembly, consisting of an addressor envelope having the addressor's address on one face thereof and slits formed in the said face arranged around the zone of the addressor's address, a directionary legend above said address and beyond said slits, one end of which issues into an arrow which terminates adjacent said indicia in the zone of the slits, and an addressee envelope secured in said slits and covering the said indicia and the head of the arrow.

1,944,981
METAL PLANING AND LIKE MACHINE TOOL
Albert Hewitt, London, England
Application February 10, 1932, Serial No. 592,012, and in Great Britain February 28, 1931
7 Claims. (Cl. 90—42)

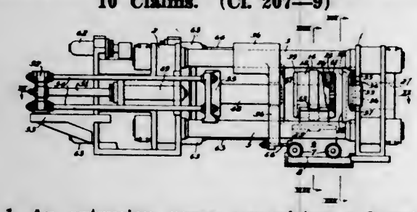
1. Metal planing and like machine tools adapted simultaneously to plane and finish in

one operation the opposite edges of a metal bar, comprising two frame parts, a support for the bar extending between and carried by the said frame parts, a tool slide embracing said support and carried thereby, tool carriers disposed upon said tool slide respectively on the two sides of



the support, cutting tools mounted in said tool carriers, a clamping member for holding the bar upon the support movable towards and away from said support on said frame parts, and means for reciprocating the tool slide upon the said support.

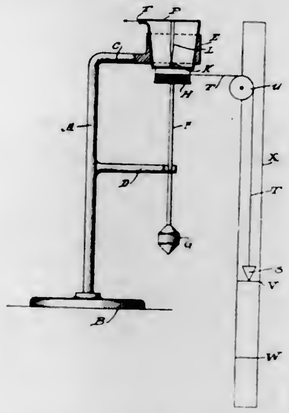
1,944,982
EXTRUSION PRESS
John E. Hoy, Midland, Mich., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 17, 1933. Serial No. 652,127
10 Claims. (Cl. 207—9)



1. An extrusion press comprising a housing, an extrusion barrel arranged adjacent said housing, a carriage supporting said barrel, a cradle adapted to engage said barrel mounted for rotation in a horizontal plane on said carriage, means for clamping said barrel against and moving it away from said housing in line with an opening therein, means for releasably locking said cradle in axial alignment with said opening in the housing and a power-operated plunger arranged to pass through and force the metal from said barrel through the opening in said housing.

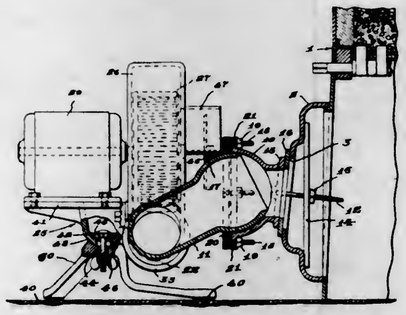
1,944,983
VISCOSIMETER
Adolf Kämpf, Dessau-Ziebigk, Germany
Application January 7, 1929, Serial No. 330,923, and in Germany January 11, 1928
5 Claims. (Cl. 265—11)

1. In an apparatus for ascertaining the viscosity of a liquid, a supporting structure, an exhaustible casing carried by said supporting structure and having a bottom portion thereof open to the atmosphere, a depending needle bearing within said casing, a rotatable vertical spindle normally supported by said support but movable vertically away from said support and having a cup bearing formed therein, a symmetrical liquid contacting member carried by said spindle, and means carried by said spindle and received within the opening of said casing



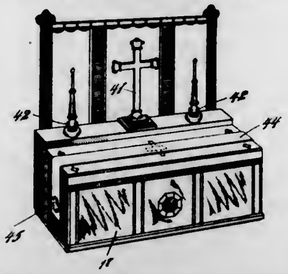
so as to nearly close the same whereby the said spindle will be lifted by atmospheric pressure against said means when the casing is exhausted to bring the cup bearing into contact with the needle bearing and disengage said spindle from said support.

1,944,984
DRAFT ATTACHMENT FOR FURNACES AND THE LIKE
George H. Klippel, Syracuse, N. Y.
Application July 17, 1931. Serial No. 551,332
9 Claims. (Cl. 110—72)



1. The combination with a hinged door of a furnace, which door has a draft opening therein, of a draft attachment comprising a unit fixed to the door and having an air inlet pipe, and a fixed blower unit having an outlet pipe for communicating with the inlet pipe of the former unit, said units being located so that upon opening and closing of the door, the air inlet pipe of the unit carried by the door moves endwise out of and into abutting relation with the outlet pipe of the blower unit, said pipes having means at their abutting ends for engaging and disengaging them at their abutting ends upon the opening and closing movement of the door.

1,944,985
ALTAR
William D. Koran, Providence, R. I., assignor to The Williams and Anderson Company, a corporation of Rhode Island
Application September 17, 1932
Serial No. 633,636
4 Claims. (Cl. 206—19)



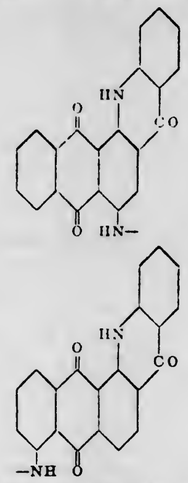
4. A miniature portable altar comprising a hollow metal base having vertical walls and a nonmetallic storage compartment housed in said base and projecting below the edges of said vertical walls to prevent contact of the edges of the vertical walls of said base with the surface upon which it is supported.

1,944,986
VAT DYESTUFFS OF THE ANTHRAQUINONE-ACRIDONE SERIES AND A PROCESS OF PREPARING THEM
Georg Kränzlein, Heinrich Vollmann, and Hermann Boedeker, Frankfort-on-the-Main-Hochst, and Hans Becker, Hofheim in Taunus, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application April 4, 1932, Serial No. 603,202, and in Germany April 24. 1931
4 Claims. (Cl. 260—37)

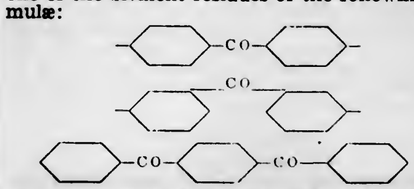
1. The compounds of the following general formula:

B—A—B

wherein one of the B's stands for one of the monovalent residues of the following formulæ:

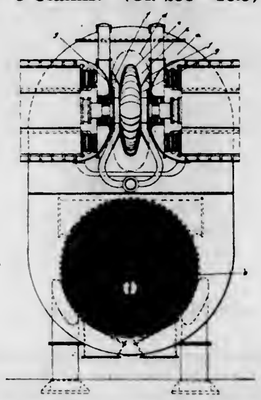


and the other B stands for the same residue or hydrogen or halogen and wherein A stands for one of the bivalent residues of the following formulæ:



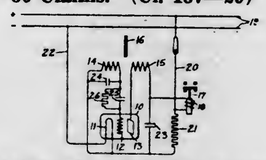
said compounds being clear yellowish-green to greenish-blue or violet vat dyestuffs of good fastness properties.

1,944,987
TURBINE
Fredrik Ljungström, Lidingo, Sweden, assignor to Aktiebolaget Spontan, Stockholm, Sweden, a corporation of Sweden
Application June 16, 1932, Serial No. 617,653, and in Sweden July 3, 1931
8 Claims. (Cl. 253—16.5)



1. In a steam turbine, in combination with a discharge rotor provided with a blade rim including blades of relatively large radial extension as measured from the secant at the base to the crest of the blades, means providing a discharge or outlet chamber entirely surrounding said rotor and providing an unobstructed annular space embracing the entire blade rim, wherein the discharged steam may form a freely rotating steam ring of constant cross sectional area and which is defined at its inner margin by the total periphery of said radially extended blades, and means extending from the base of said blades and defining laterally said rotating steam ring.

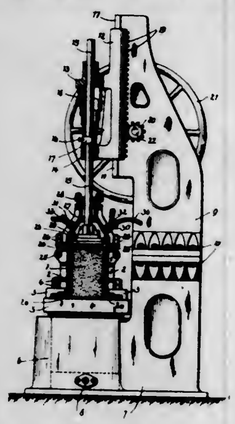
1,944,988
CONTROL SYSTEM
Walter O. Lum, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 24, 1928. Serial No. 295,059
30 Claims. (Cl. 187—29)



1. In a system of control, the combination with an electrode device provided with an oscillation

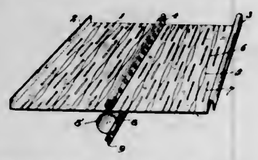
circuit, of an electro-magnetic relay, electrical connections between said relay and said circuit including means for rendering said relay responsive only to the non-pulsating component of the current in said circuit, and means for varying an oscillatory condition of said device to effect the operation of said relay.

1,944,989
METHOD AND APPARATUS FOR MAKING CERAMIC SHAPES
Elisabeth Lux, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a corporation of Delaware
Application August 10, 1931, Serial No. 556,217, and in Germany August 11, 1930
6 Claims. (Cl. 25—27)



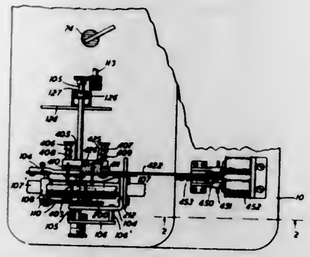
1. A machine for making ceramic shapes comprising, a vibrating machine, a mould arranged on the working member of the vibrating machine, a guide arranged vertically above the mould, a slide gliding on said guide, a cover for closing up the interior of the mould and attached to the said slide, and means for evacuating the interior of the mould.

1,944,990
AIRCRAFT COVERING
Franco Maxxini, Milan, Italy, assignor to Società Italiana Ernesto Breda Per Costruzioni Meccaniche, Milan, Italy
Application November 23, 1931, Serial No. 576,841, and in Italy January 28, 1931
3 Claims. (Cl. 244—31)



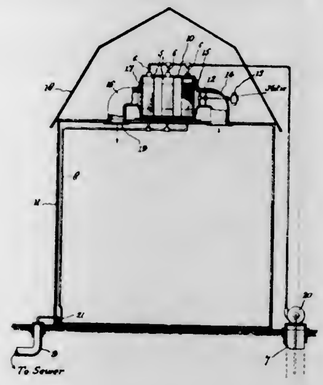
1. A covering for aircraft wings and the like including a thin metallic sheet having short elongated bosses spaced apart and connected by lineal reduced protuberances, said bosses extending in the direction of flight of the aircraft whereby to provide stiffening means which permits the sheet to assume any desired curvature without impairing its rigidity.

1,944,991
TWO-WAY TELEGRAPH SYSTEM
Thomas A. McCann, East Orange, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application December 7, 1932. Serial No. 646,202
7 Claims. (Cl. 178—23)



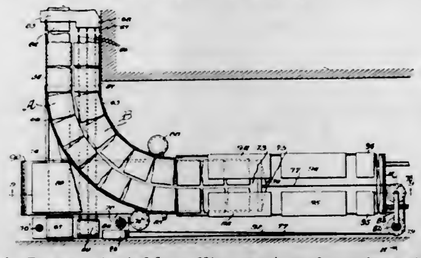
1. A two-way signaling system comprising a single character recorder for recording the characters of messages transmitted in both directions in said system, electromagnetic instrumentalities having two different conditions of operation corresponding to transmission in the two directions respectively and a device associated with said recorder and connected to said instrumentalities for introducing a characteristic into said recorder characters in response to one of said conditions of operation of said instrumentalities.

1,944,992
AIR CONDITIONER
Samuel C. Miller, Louisville, Ky.
Application December 29, 1932
Serial No. 649,383
4 Claims. (Cl. 257—244)



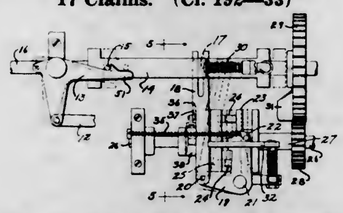
1. In an air conditioner, a heat exchanger having conduits for conveying cold water therethrough and located above the room to be cooled, and having air passages in circuit with the air of the room, a supply pipe from a deep well to said heat exchanger, and a discharge with a trap at lower end for the water, said discharge balancing the lift on the supply side and reducing the power required for elevating water to the heat exchanger.

1,944,993
MINE CAR LOADING APPARATUS
Edmund C. Morgan, deceased, late of New York, N. Y., by Olive Eugenie Morgan, executrix, New York, N. Y., assignor to American Morgan Company, a corporation of Delaware
Original application February 17, 1923, Serial No. 619,588. Divided and this application December 9, 1927. Serial No. 238,877
25 Claims. (Cl. 214—41)



1. In a material handling system for mines, the combination of a train of mine cars, and means for loading said cars from one end of the train comprising a material conveyer and means for moving said conveyer over the bottom of said cars from end to end of the train.

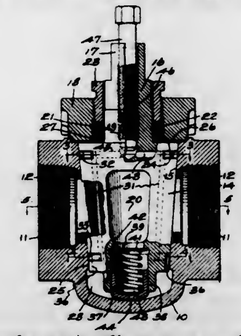
1,944,994
CLUTCHING DEVICE
Henry Nepple, Los Angeles, Calif., assignor to William J. Pearson, Los Angeles, Calif.
Application October 23, 1931. Serial No. 570,636
17 Claims. (Cl. 192—33)



1. In a device of the character disclosed, driving and driven members; a latch; a spring-tensioned operating member normally retained in inoperative position by said latch; a control member adapted to operate said latch and said operating member; a slidable member controlling the movement of said control member; a trip member normally retaining said slidable member in clutch disengaging position; and means to operate said trip to release said slidable member to engage said clutch by releasing said latch from said operating member.

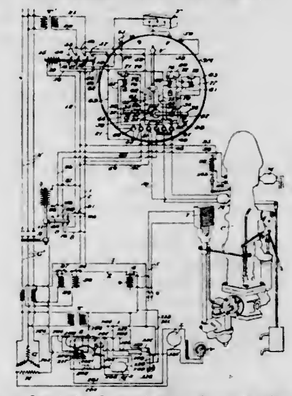
1,944,995
VALVE
Sven Johan Nordstrom, Piedmont, Calif., assignor to Merco Nordstrom Valve Company, San Francisco, Calif., a corporation of Delaware
Application November 26, 1929
Serial No. 409,876
6 Claims. (Cl. 251—93)

1. In a valve, a casing having a passageway therethrough for flow of fluid and a bore formed transversely of the passageway, a plug member rotatably disposed within said bore and having a hole adapted to register with the passageway, a lubricant chamber formed within the plug, a piston slidably fitted within said chamber, one side of said piston forming a wall of said chamber, a port in the plug adapted to communicate between said chamber and the hole in the plug,



a closure member extending across said port, and a compression spring interposed between said closure member and said piston.

1,944,996
SYSTEM FOR AUTOMATIC PARALLEL COUPLING OF SYNCHRONOUS ALTERNATING CURRENT MACHINES
Erick Pearson, Minneapolis, Minn.
Application September 4, 1926, Serial No. 133,645, and in Sweden January 28, 1926
27 Claims. (Cl. 171—118)

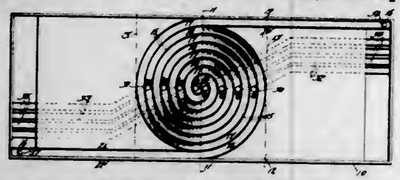


5. In an electrical system wherein two sources of alternating current are to be synchronized, a circuit breaker for connecting said sources together, a control circuit for operating said circuit breaker, a switch in said circuit, means for operating said switch when the frequency and phase relation of the currents are within permissible limits, a second switch in said control circuit, a synchronizing device, a movable member moved thereby and operating to close said second switch at a predetermined phase angle in advance of synchronism and to open it in advance of a corresponding phase angle past synchronism.

1,944,997
GAME OF SKILL
Charles L. Phillips and Inglis M. Uppercu, New York, N. Y., assignors to Whirlpool Incorporated, a corporation of New York
Application June 25, 1931. Serial No. 546,725
5 Claims. (Cl. 273—124)

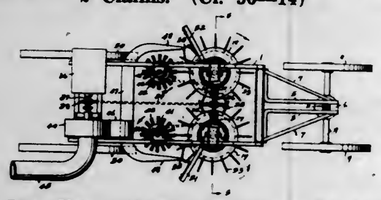
2. In apparatus of the class described in combination, a panel, a spiral guide having walls

mounted on said panel, said walls being so arranged as to provide at least two adjacent spiral



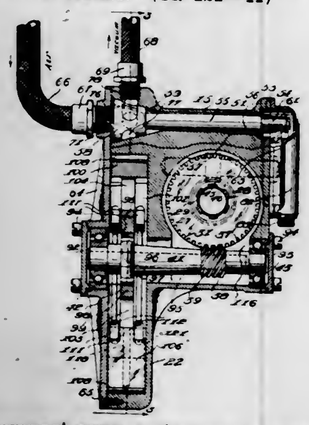
passages, and a relatively straight runway one for each passage which runways extend in opposite directions.

1,944,998
MACHINE FOR PICKING COTTON
Frank M. Pond, Houston, Tex.
Application October 2, 1931. Serial No. 566,408
2 Claims. (Cl. 56—14)



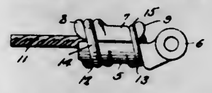
1. In a fiber gathering machine, a fixed drum, annular rack members therearound and spaced apart and having series of rack teeth thereon, a shell around said drum rotatable about an approximately vertical axis, and having an annular internal flange, antifriction means supported on the drum and supporting said flange and shell, radial needles mounted to rotate in said shell, gears on the inner ends of said needles between said respective rack members and arranged to mesh intermittently with the corresponding rack teeth of said members.

1,944,999
POWER APPARATUS
Alden G. Rayburn, Sausalito, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation, a corporation of Delaware
Application October 28, 1929. Serial No. 403,002
4 Claims. (Cl. 121—41)



1. A compact servo-motor construction of the rotary type comprising; a housing; a control shaft projecting into said housing; a motor chamber formed in said housing; a motor shaft journaled in said housing in substantially perpendicular relation to said control shaft; a rotor within said chamber and mounted upon said shaft; a valve mounted in said housing to control the operation of the motor; a lubricant reservoir formed in said housing; and mechanism for actuating said control valve, part of said mechanism being housed in said lubricant reservoir and connected to said control shaft.

1,945,000
CLAMP
Fred H. Sharar, Williamsport, Pa.
Application March 9, 1933. Serial No. 660,174
6 Claims. (Cl. 24—132)



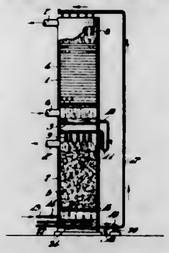
1. A clamp for clamping cables, comprising a body portion formed with a groove, a movable jaw having a groove cooperating with the body portion in gripping a cable therebetween, and means embracing portions of both jaws for removably mounting the movable jaw on the body portion.

1,945,001
TREATMENT OF ARTIFICIAL GAS
Walter L. Shively, East Orange, N. J., assignor to The Koppers Company of Delaware, a corporation of Delaware
No Drawing. Application January 20, 1931
Serial No. 510,061
7 Claims. (Cl. 48—190)

1. In a method of transporting artificial gas containing gum forming material through a transportation main at pressures materially higher than the pressure at which the gas is subsequently distributed and which involves the deposition of gummy materials in the relatively low-pressure system through which the gas is subsequently distributed the improvement which comprises treating the gas to repress the gum formation therein by introducing moisture into the gas as water or steam in the high pressure line at intervals during its passage through said transportation main and thereby maintaining a sufficiently high relative humidity therein at above 80% throughout its entire travel through said transportation main as to repress gum formation therein.

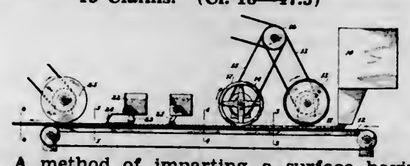
1,945,002
PROCESS OF TREATING GAS
Mark Shoeld, Mount Lebanon Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application May 5, 1931. Serial No. 535,157
3 Claims. (Cl. 23—150)

1. A process of preparing substantially pure carbon dioxide from gases containing the same, which process comprises spraying a hot solution containing alkali carbonate and bicarbonate into a chamber in contact with a relatively cooler gas containing carbon dioxide whereby the solution is cooled and carbon dioxide is absorbed, converting alkali carbonate to alkali bicarbonate, conducting the cooled solution to an extractor chamber at substantially that temperature at which it discharges from the carbon dioxide absorption chamber, spraying the resulting cooled solution at substantially said temperature in the extractor chamber in direct contact with steam, condensing steam in the said latter solution while heating the said latter solution with the said steam to decompose bicarbonate therein and to form carbon dioxide, and returning the so heated solution to the carbon dioxide absorption cham-



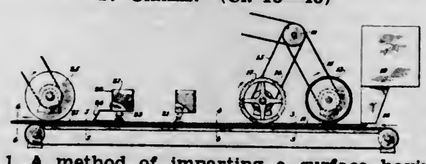
ber at substantially that temperature at which it discharges from the extractor chamber and spraying it as aforesaid in the carbon dioxide chamber, whereby condensate from the extractor chamber is evaporated off by the contact with the carbon dioxide gas and the solution cooled thereby.

1,945,003
SURFACING OF RIGID SHINGLES AND THE LIKE
George Smolak, Somerville, N. J., and Walter McQuade, Port Washington, N. Y., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application March 26, 1931. Serial No. 525,472
15 Claims. (Cl. 18—47.5)



1. A method of imparting a surface having ornamental contours to materials which are plastic or readily deformable in one stage of their manufacture and which are subsequently subjected to application of pressure, comprising treating the material while in the readily deformable stage to impart the desired prominences and depressions forming the ornamental contours in the surface thereof, filling the depressions with a removable filler material, applying pressure to the surface of the plastic material thus treated, and thereafter removing the filler material from the depressions to expose the ornamental contours.

1,945,004
METHOD OF MAKING A STRUCTURAL UNIT
Walter McQuade, Port Washington, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application April 11, 1932. Serial No. 604,532
17 Claims. (Cl. 18—48)



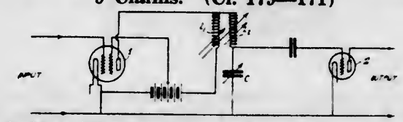
1. A method of imparting a surface having ornamental contours to materials which are plastic or readily deformable in one stage of their manufacture and which are subsequently densified by application of pressure, comprising treating the material while in the readily deformable stage to impart the desired elevations and depressions forming the ornamental contours in the surface thereof, filling the depressions with a granular, resilient filling material, applying pressure to the surface of the plastic material thus treated, to impart the requisite degree of density and strength thereto and to impress the filling material in part into the surface of the sheet, and thereafter removing the filling material from the depressions, to expose pits formed by impressing and then removing the filling material and also the ornamental contours.

1,945,005
LOCK FOR NUTS AND BOLTS
Nicolas Vacher, Moingt, France
Application March 29, 1930, Serial No. 440,101, and in France December 9, 1929
1 Claim. (Cl. 151—38)



A screw locking device comprising a screwed member, a hollow truncated conical working face thereon, and a truncated conical circumferentially unbroken resilient washer of uniform thickness of smaller apical angle than said working face, the difference in apical angle between said working face and said washer being such that during tightening of said screwed member said washer is deflected into surface contact with said working face but is still within its elastic limit when said screwed member is fully tightened.

1,945,006
AMPLIFIER ARRANGEMENT
Romyn Veldhuyzen, Eindhoven, Netherlands, assignor to Radio Corporation of America, a corporation of Delaware
Application February 18, 1931, Serial No. 516,548, and in the Netherlands October 11, 1930
9 Claims. (Cl. 179—171)

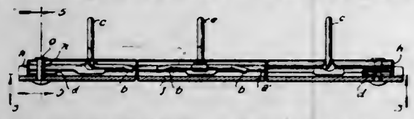


1. In a tube coupling system, the combination with a pair of electron discharge tubes in cascade, of an inductive reactance connected between the anode and cathode of one of the tubes, a condensive reactance and a second inductive reactance connected in series with each other and between said anode and cathode, each of said inductive reactances being adjustable in magnitude, the input electrodes of the other tube being connected across said condensive reactance, and said inductive reactances being adjustably coupled.

1,945,007
LOOSE LEAF BINDER
Murray Vernon, Greenwich, Conn.
Application July 30, 1932. Serial No. 626,793
5 Claims. (Cl. 129—24)

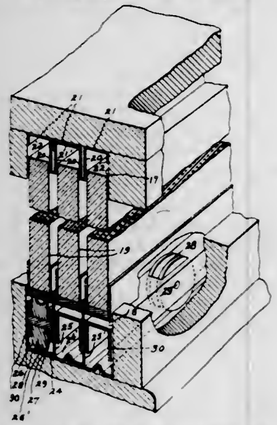
3. In combination with the back member of a loose leaf binder, a single strip of metal having its longitudinal edges disposed at an angle to the body of the strip and arranged to pivotally support openable eye members for holding loose leaves, an extension on each end of the strip of metal, said extensions being fashioned through

substantially 180° to provide tab portions at the ends of the strip disposed in spaced relation with respect to the body of the strip of material, and parts connecting the body of the strip and tabs and which are disposed substantially perpendicular to the back member, said tabs adapted to rest flush against the back of the binder, the tab



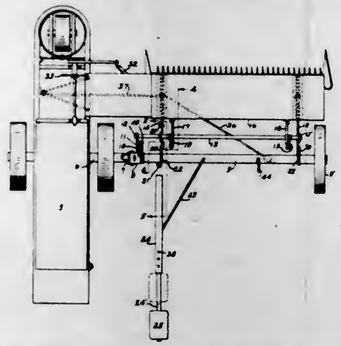
portions and the body of the strip having substantially aligned apertures adjacent the said parts, and rivets passing through the back member and apertures in the tab portions and strip, the body of the strip and the tab portions and their connecting parts taking the compression force of the rivets, whereby the back member of the binder is relieved of such force.

1,945,008
DOOR SEPARATOR AND TRACK FOR DOOR RUNWAYS IN DISPLAY CASES
Albert Voigt, New York, N. Y.
Application June 14, 1928. Serial No. 285,411
10 Claims. (Cl. 16—100)



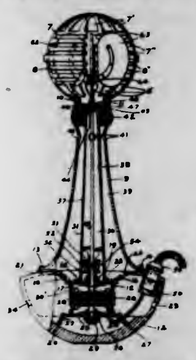
1. In a multiple track structure for door runways in display cases, a sheet metal member of right angle shape in cross-section, one angle portion constituting a door parting portion and the other a track member having the longitudinal marginal portion flanged laterally to extend parallel with the door parting portion and intermediate the sides offset to extend parallel with and midway between the flange of the track member and door parting portion to constitute a roller engaging track rail, a second sheet metal member having the opposite longitudinal marginal portions flanged at right angles, one of said flanged portions being overlapped by the portion of the track portion of the first member from which the door parting portion extends and the flange of the overlapped portion of the second member conforming to and engaging in the offset rail of the track member of the first member, the second member being offset midway between and to extend in the direction of the flanges to constitute a roller engaging rail, and the lateral flange of said second member and of the track portion of the first member adapted to engage the opposite walls of the door runway and position the parting member of the first member centrally therein.

1,945,009
HARVESTER
James A. Walsh and Norman R. Krause, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a corporation
Application July 17, 1933. Serial No. 680,702
15 Claims. (Cl. 56—20)



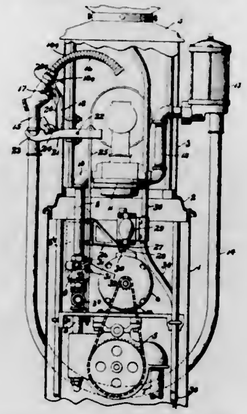
1. In a harvester, an axle, means for rockingly coupling the axle to a thresher, supports fixedly secured to the axle, arms connecting the harvester with the supports, a rod mounted on the arms, a keeper fixedly secured to the coupling means, a linkage connecting the keeper to the rod, linkage connecting the rod with the harvester, and means for vertically adjusting the harvester to rock the axle in its coupling and whereby the linkages connecting said axle and rod and the rod to the harvester will be automatically adjusted to sustain the harvester substantially horizontally during its vertical movements.

1,945,010
ELECTRIC FAN
James L. Waterbury, Chicago, Ill., assignor to Waterbury Holding Corporation, Cincinnati, Ohio, a corporation of Ohio
Application January 17, 1930. Serial No. 421,378
7 Claims. (Cl. 230—273)



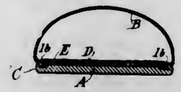
7. A motor fan unit comprising a hollow base, a hollow column upstanding from the base, and a fan unit mounted on top of said column and operatively connected to said motor through said column, in which the base has a rounded bowl-shaped bottom, and in which the materials of the base and the upper parts supported thereby, together with the motor, are so disposed that the unit is self-righting to an upright position when tilted therefrom, by rocking on its rounded base.

1,945,011
PUMP CONTROL
Clyde E. Weaver, Muskegon, Mich., assignor to Bennett Pumps Corporation, Muskegon, Mich., a corporation of Michigan
Application December 16, 1929
Serial No. 414,401
4 Claims. (Cl. 221—95)



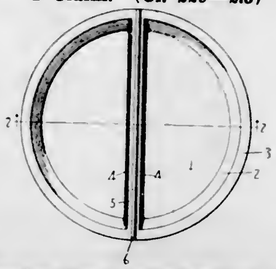
1. In a construction of the class described, a housing, a pump mounted in the housing, an electric motor for driving the pump, a conduit for carrying liquid pumped by the pump, a flexible hose at the free end of the conduit, a switch for controlling the operation for the electric motor, a pivotally mounted lever extending through a side of the housing on which the hose is adapted to be carried, said housing having an opening through which the free end portion of the hose may be passed into the housing, a rod connected to said lever and to the switch for moving the switch to inoperative position when the hose is placed on the lever, said lever being adapted to be turned to a position to move the switch to operative position when the hose is disconnected from the lever.

1,945,012
FOOTWEAR
Morris J. Weisburd, Brooklyn, N. Y.
Application December 20, 1932
Serial No. 648,038
2 Claims. (Cl. 36—18)



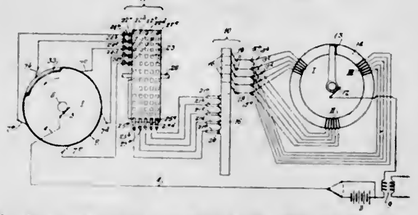
1. The method of making footwear which comprises forming a sole of larger dimensions than the finished sole for the particular article, making a blind cut in the bottom face of the sole in spaced substantially parallel relation to its edge, skiving the top face of the sole around its edge to a width inwardly of the blind cut, securing an upper in inside-out relation to the bottom of the sole outwardly of the blind cut, turning the upper right-side-out to overlie the top of the sole and causing the edge portion of the sole to which the upper is secured to seat over the skived portion after turning said edge portion of the sole upwardly about the blind cut as a line of fold to bring the walls of the blind cut into substantially flush relation.

1,945,013
FIBER PLATE
Frank D. Wilson, Chicago, Ill., assignor to Mapes Consolidated Manufacturing Company, Griffith, Ind., a corporation of Delaware
Application March 14, 1932. Serial No. 598,689
1 Claim. (Cl. 229—2.5)



A dispensing dish moulded from paper pulp in circular form consisting of a bottom, outwardly flaring side, a horizontally disposed rim extending about the upper edge of the side, and a transversely arranged hollow rib projecting from the bottom and merging into the flaring side and said rib being of a height equal to the height of the side and having a substantially flat upper surface, and a centrally disposed bead formed on the upper surface of said rib to form a hinge to permit the halves of the plate to be folded one upon the other and to also provide a guide for a tearing line.

1,945,014
METHOD AND MEANS FOR ESTABLISHING SECRET COMMUNICATION
Franz Wrede, Berlin-Charlottenburg, Germany
Application March 17, 1932, Serial No. 599,513, and in Germany December 16, 1929
25 Claims. (Cl. 178—22)

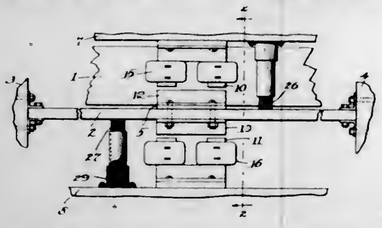


1. Apparatus for establishing secret communication comprising a sender and a receiver, means to divide each element of a message into a multiplicity of units meaningless per se, means in said sender adapted to transmit impulses corresponding to said units, said means being adapted to diversify said impulses into a plurality of sequences and means in said receiver adapted to receive said impulses, said means being in synchronous agreement with said transmitting means with respect to the timing and sequence of said impulses.

1,945,015
ELECTROMAGNETIC VIBRATING APPARATUS
Hugh E. Wurzbach and Clyde H. Konold, Magna, Utah
Application July 1, 1932. Serial No. 620,340
7 Claims. (Cl. 172—126)

1. A vibratory apparatus comprising: a frame; an operated member resiliently mounted on said frame for vibratory movement; two separate non-

polarized armature means secured to said operated member and disposed oppositely of one another in the direction of vibration of said member; a pair of electromagnets secured to said frame and operatively associated with the



respective armature means at opposite sides thereof and acting oppositely thereon in the direction of vibratory movement of said operated member; and means for alternately supplying unidirectional electrical energy to the respective electromagnets.

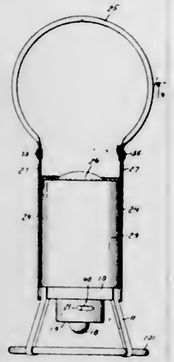
1,945,016

BATTERY HAND LAMP

John S. Zook, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a corporation of Wisconsin

Application October 6, 1931. Serial No. 567,190

10 Claims. (Cl. 240—10.63)



1. A caseless hand lantern comprising, in combination, a metal pan having a bottom and sides, said bottom having a central opening therein, an insulating disc mounted in said opening, a metallic plate mounted upon said disc with portions exposed on both sides thereof, a metallic bridge suspended from said disc, a bulb socket mounted upon said bridge, said socket being adapted to receive an incandescent bulb with the end terminal thereof in contact with said plate, a metallic reflector suspended from said pan and in electrical connection therewith, a resilient member upon the marginal portions of the bottom of said pan, a battery arranged in said pan with its terminal end fitting within said sides and resting upon said resilient member, and the terminals contacting with said plate and the bottom of said pan respectively, a switch for connecting and disconnecting said reflector and said bridge, arms attached to opposite sides of said pan, and terminating in a handle, means disposed between said arms for maintaining said battery firmly in place upon said resilient member, and a supporting bracket attached to said pan.

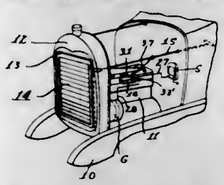
1,945,017

TEMPERATURE INDICATION AND CONTROL

Frederick E. Beach and Arthur H. Jenson, Chicago, Ill.

Application September 2, 1930. Serial No. 479,330

3 Claims. (Cl. 177—311)



3. In combination, an internal combustion engine, the cooling circulatory system therefor including a radiator, shutter mechanism for opening and closing the passage of air through said radiator, a thermally responsive switch, a signal circuit controlled by said switch, said switch being free to respond to a predetermined high temperature to close said circuit when said shutter mechanism is closed, and means controllable from the driver's seat for simultaneously opening said shutter mechanism and conditioning said switch to interrupt said circuit independently of thermal conditions.

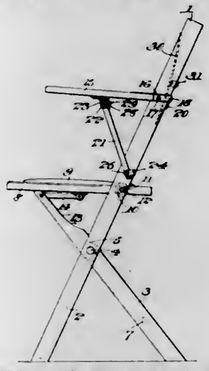
1,945,018

FOLDING CHAIR

Whitlock W. Boardman, Hoboken, N. J., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J., a corporation of New Jersey

Application November 7, 1930. Serial No. 494,087

2 Claims. (Cl. 155—198)



1. In a folding chair, a back frame, a stop plate thereon and an arm rest pivoted to the back frame and extended rearwardly beyond the pivot into position to form an interlocking connection with the stop plate to limit the unfolding movement of the arm rest and to prevent its lateral displacement.

1,945,019

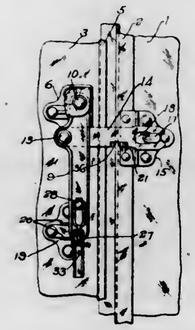
CAR DOOR OPERATING DEVICE

Edwin G. Busse, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois

Application May 29, 1931. Serial No. 541,091

8 Claims. (Cl. 268—72)

1. In a door operating device, a manipulating lever adapted to be secured to the doorpost, a link pivoted on said lever and having a slot near the outer end thereof and a recess in an edge thereof, a stud element and a lug for application to the door, said slot being adapted to receive said stud element in operating the device and said recess being adapted to pass over said lug to permit said slot to register with said stud element,



and means for locking said lever against said doorpost, a part of said link cooperating with said lug when closing force is applied to said lever and when said lever is in the locked position to prevent the removal of said link from said stud element.

1,945,020

CABINET CONSTRUCTION

Zechariah Chafee, Providence, R. I.

Application January 3, 1931. Serial No. 506,419

2 Claims. (Cl. 220—80)



1. In a heating cabinet construction subject to wide variations in heat, a skeleton frame constructed of chamfered corner bars having sides exterior of said chamfer, walls having outer enameled surfaces with unenameled edges, clamping means having lateral clamping portions adapted to clamp the unenameled edges of said walls to said corner bars having stop means projecting inwardly therefrom adapted to abut the chamfered portion of said corner bars to permit said portions to grip the edges of said enameled walls with friction to permit expansion and contraction thereof and means to secure said clamping means to the chamfered portion of said corner bars.

1,945,021

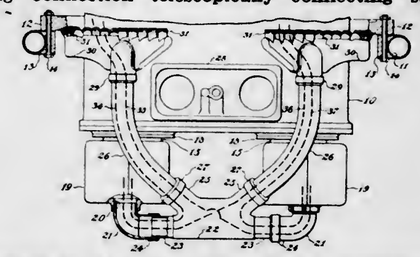
RADIO SHIELD FOR ENGINES

Roland Chilton, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York

Application June 8, 1933. Serial No. 674,816

10 Claims. (Cl. 123—148)

1. A radio shielding for an engine having angularly adjustable magnetos comprising a wire encasing manifold, a crossover wire encasing connection telescopically connecting said



magnetos, and shielding conduits connecting said crossover connection to said manifold.

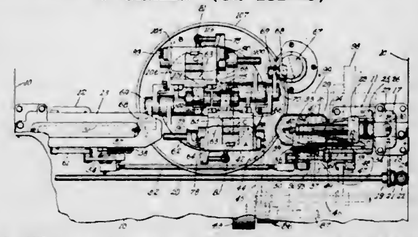
1,945,022

BUNCH SHAPER AND BUNCH MOISTENER FOR CIGAR MACHINES

Sigurd Clausen, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application January 20, 1933. Serial No. 652,711

6 Claims. (Cl. 131—9)



1. The combination with two bunch end shaping devices each having shaping jaws and an actuating member, of a support for said devices, mechanism for rotating said support in 180 degree steps, and means for successively operating said members to close said jaws.

1,945,023

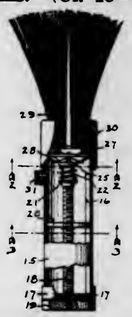
PASTE FEEDING BRUSH

Ralph L. Cleveland and Edward H. Lederer, Indianapolis, Ind.

Application December 15, 1932

Serial No. 647,328

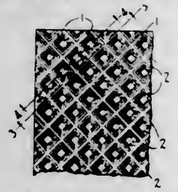
8 Claims. (Cl. 15—137)



1. In a fountain brush, a barrel, a piston shiftable in the barrel, an actuating shaft for shifting the piston, a brush base receiving an end of the barrel and having a bore affording normal communication between the brush and said barrel, and a valve mechanism controlling

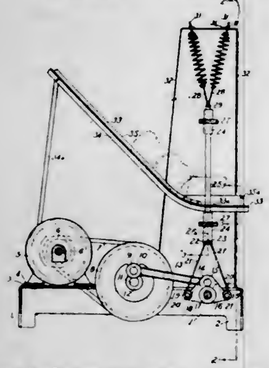
flow through said bore comprising a perforated plate and a second plate alternately covering and uncovering the perforations of the first plate by movement of said shaft.

1,945,024
PACKING MATERIAL FOR FRAGILE ARTICLES
William D. Coil, Muncie, and William J. De Reamer, Crown Point, Ind., assignors to Mapes Consolidated Manufacturing Company, Griffith, Ind., a corporation of Delaware
Application April 21, 1930. Serial No. 445,909
3 Claims. (Cl. 154—54)



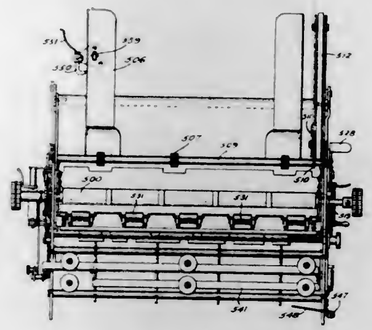
1. A packing board formed of moulded pulp, said board having a plurality of spaced resilient ribs on one side thereof and a plurality of spaced resilient projections on the opposite side thereof, said ribs being formed in two series with the ribs of one series extending at an angle to the ribs of the other series.

1,945,025
BREAD SLICING MACHINE
Harry J. Criner, Davenport, Iowa
Application April 5, 1933. Serial No. 664,596
17 Claims. (Cl. 146—153)



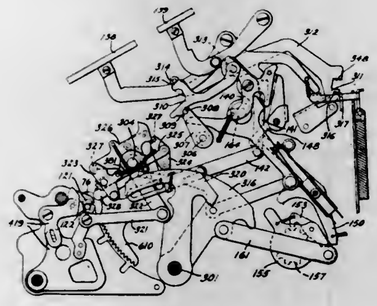
1. A bread slicing machine comprising a base, a housing united thereto, an axle-shaft mounted in the base, a rocker pivotally mounted on the axle-shaft extending transversely across the base and having staggered slots formed in its front and rear edges, pivot-bars secured in the front and rear edges of the rocker passing through the slots adapted to receive and drive links, a plurality of links severally having their lower ends united to the pivot-bars and extending upwardly therefrom, a plurality of spaced cutting blades having one end pivotally united to the upper ends of the links severally, a corresponding plurality of coiled tension springs having their upper ends adjustably united to the housing at or near the top thereof and their lower ends pivotally united to the upper ends of the cutting blades, and means for reciprocating the rocker.

1,945,026
PAPER FEED MECHANISM
Loring P. Crosman, Maplewood, N. J., assignor to Gardner Company, Orange, N. J., a corporation of Delaware
Application October 15, 1932. Serial No. 637,904
5 Claims. (Cl. 197—128)



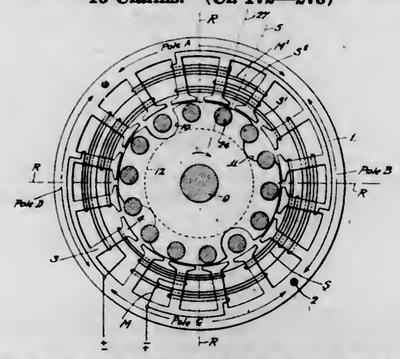
1. Paper feed mechanism for recording machines, including an inclined plate adapted to afford sliding support to a record sheet, a pair of contacting feed rolls located at the bottom of said plate and forming an alignor abutment for the sheet and cooperating feed means comprising a manually operable endless band extending parallel to said plate, and a reverse drive gear connection between said band and one of said rolls.

1,945,027
LISTING CALCULATOR
Loring Pickering Crosman, Maplewood, N. J., assignor to Gardner Company, Orange, N. J., a corporation of Delaware
Original application April 28, 1932, Serial No. 607,982. Divided and this application April 15, 1933. Serial No. 666,256
3 Claims. (Cl. 235—60)



1. In a listing calculator having a register, means for selectively determining the normal sign character of a registration thereon, means for reversing said normal sign character, recording means and means for visually distinguishing records of different character; a member settable by the sign determining means, a member settable by the reversing means and means controlled by said members to set the record distinguishing means in accordance with the position of both members.

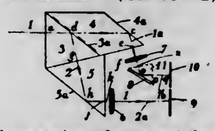
1,945,028
REACTION TYPE SYNCHRONOUS MOTOR
Harry D'Almaine and Clifford F. Thompson, Chicago, Ill., assignors to Bodine Electric Co., Chicago, Ill., a corporation of Illinois
Application May 20, 1932. Serial No. 612,473
13 Claims. (Cl. 172—278)



1. A squirrel cage rotor including a rotor core provided on its peripheral surface with four longitudinal surface slots; and a plurality of rotor bars of uniform spacing mounted on the core, the majority of the bars entirely housed by the core and the remainder being disposed in the said slots, the number of slot-housed bars being equal in each of two diametrically opposite slots but different from the number housed by each of the other slots.

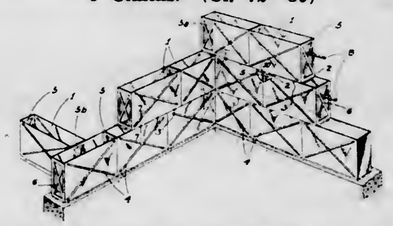
10. In an alternating current motor, a multipolar stator core having each pole-piece thereof composed of a plurality of pole-teeth, with groups of consecutive pole-teeth respectively forming counterpart pole-pieces; a main winding comprising sections each associated with all teeth of one pole-piece and centered with respect to that pole-piece, and a starting winding comprising sections each associated with only the rotationally most rearward tooth of one group and all but the most rearward tooth of the next rotationally rearward group of teeth; all pole-teeth of the stator core being counterparts of one another, uniformly spaced, and included in the said groups of pole-teeth.

1,945,029
OPTICAL LIGHT DIVIDING SYSTEM
Demetre Daponte, London, England, assignor to Cinecolor Company of America, Inc., New York, N. Y., a corporation of Delaware
Application January 8, 1930, Serial No. 419,294, and in Great Britain April 12, 1929
4 Claims. (Cl. 88—1)



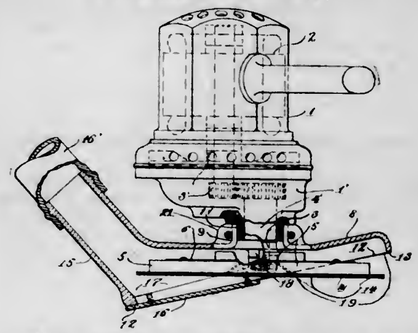
1. In a taking system for receiving images from the same aspect and casting them side by side on a film with the width or horizontal lines of each picture running along or parallel to the length of the film, a light beam divider comprising a partially transmitting and partially reflecting optical element for dividing an incident beam into two component beams making an angle with each other; an objective for each of said component beams, at least one of said objectives being disposed so as to lie in angular relationship with the film; an optical reflector before each of the objectives for bringing the diverging component beams towards each other, said reflectors being positioned so as to permit a separation of the component beams substantially greater than the distance between the parallel axes of the side by side pictures on the film; and a single optical reflector between said angularly disposed objective and the film, said reflector being angularly set with respect to said objective and the film so as to reflect light from the objective on to the film substantially normal to the picture area.

1,945,030
PERMANENT FORM FOR CONCRETE CONSTRUCTION
William B. Davenport, Stockton, Calif.
Application March 24, 1931. Serial No. 524,843
6 Claims. (Cl. 72—30)



1. In concrete construction, a plurality of separate form units of thin sheet material throughout freely open on top and bottom and adapted to be arranged in superimposed relation, and flanges depending from the side walls of each unit for the full length thereof and inwardly of said walls to fit inside the side walls of the unit below.

1,945,031
PORTABLE SANDER DUST HOOD
Alonzo G. Decker, Towson Heights, Md., assignor to The Black & Decker Manufacturing Company, a corporation of Maryland
Application August 13, 1931. Serial No. 556,761
8 Claims. (Cl. 51—170)



1. The combination with a portable sander comprising a flexible abrasive disk approximately one third of the area of which engages the work in normal operation, and means for rotating the disk, a hood enclosing the disk and having an opening with its edges substantially in a rectilinear plane inclined to the plane of rotation, the opening being formed and arranged to expose approximately half the disk including the operative portion of the disk, said operative portion of the disk normally projecting from the opening, contact of the disk with the work serving to deflect said portion of the disk into the plane of the opening and means for creating a vacuum in the hood.

1,945,032
PRODUCTION OF BENZOIC ACID AND BENZOATES

Jules Emile Demant, Cuise Lamotte, France, assignor to Bozel-Malétra Société Industrielle de Produits Chimiques, Cuise Lamotte, France, a corporation of France

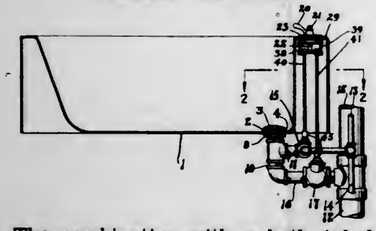
No Drawing. Application August 31, 1932, Serial No. 631,126, and in Germany June 23, 1932
6 Claims. (Cl. 260—108)

1. In a process for the production of benzoic acid and benzoates by the oxidation of toluene with chromates in the presence of water at temperatures above 100° C. and under superatmospheric pressure, the employment of bichromates for neutralizing the alkaline reacting substances formed during the action of the chromates on toluene.

1,945,033
BATHTUB FIXTURE

Michael P. Doyle, Brooklyn, N. Y.

Application August 24, 1933. Serial No. 686,590
7 Claims. (Cl. 4—196)

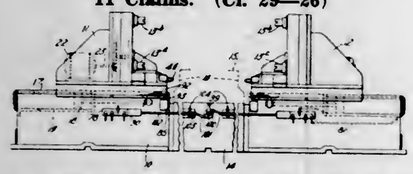


1. The combination with a bath tub having an opening therein, of a water inlet, and discharge connection mounted in said opening, a pipe connection communicating with said water inlet and discharge connection and having a branch connected to a waste pipe and a branch connected to a hot and cold water supply, valves positioned in said branches for controlling the flow of water therethrough, and means located outside of the tub for independently operating said valves so that when one of said valves is in open position the other valve will be maintained in closed position.

1,945,034
CAM CONTROLLED HYDRAULIC FEED MECHANISM

Robert M. Galloway, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a corporation of Indiana

Application September 26, 1931
Serial No. 565,352
11 Claims. (Cl. 29—26)



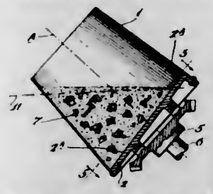
1. A machine tool combining a movable member; a hydraulic motor for propelling said member; adjustable abutment means for limiting the movement of said member: mechanism for adjusting said abutment means; clutch means for controlling said mechanism; and means for operating said clutch means in timed relation with the movement of said member whereby upon engagement of said abutment means the latter is progressively adjusted to effect a feed of said member.

10. A machine tool combining a fixed head; a head movable relative thereto; a fluid pressure motor for propelling said movable head in forward and reverse directions; abutment means for positively limiting the forward movement of said head; selectively operable power driven means for adjusting said abutment means to permit a slow feed of said movable head under the urge of said motor at a positively determined rate; control means for initiating the forward movement of said movable head; means automatically operated at a predetermined point in the forward movement thereof to render said abutment adjusting means effective; and means automatically operated at a predetermined point in the adjustment of said abutment means to reverse said motor and movable head.

1,945,035
TUMBLING BARREL

Lee B. Green, Lakewood, Ohio, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio, a corporation of Ohio

Application May 3, 1930. Serial No. 449,674
5 Claims. (Cl. 51—164)



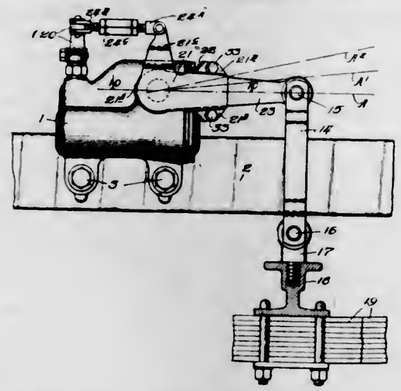
1. A tumbling or burnishing barrel comprising a material-supporting bottom and a tubular side walls for confining the material on said bottom, and means for supporting the barrel to rotate on an inclined axis, so that the material is conjointly supported at all times by the said bottom and a portion of the said side wall; the tubular body having its axis coaxial with the axis of rotation of the barrel and the top material-supporting face of the bottom being disposed obliquely to both the axis of rotation of the barrel and the axis of the tubular side wall and assuming different angles of inclination to both axes on the rotation of the barrel.

1,945,036
AUTOMATIC CONTROL FOR SHOCK ABSORBERS

Lee B. Green, Lakewood, Ohio, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio, a corporation of Ohio

Application May 20, 1932. Serial No. 612,530
4 Claims. (Cl. 188—88)

1. A shock absorber for a vehicle having a chassis movable with respect to a wheel axle and having a compression spring interposed between the axle and the chassis, comprising: a liquid-containing casing and cylinder assemblage fast on the chassis; a piston movable in the cylinder and provided with a port, the cylinder having an auxiliary port and both of the ports opening into the interior of the casing; operating means interposed between the piston and the axle for moving the piston toward the auxiliary port when the chassis moves downward with respect to the axle, the said means including a bell-crank lever having one arm thereof associated with the piston; a movable valve member controlling the auxiliary port; and auxiliary means connecting the lever with the valve member for modifying the position of the valve member when the chassis and axle are relatively stationary, according to the extent to which the spring is depressed by the chassis and the load on the chassis, the auxiliary

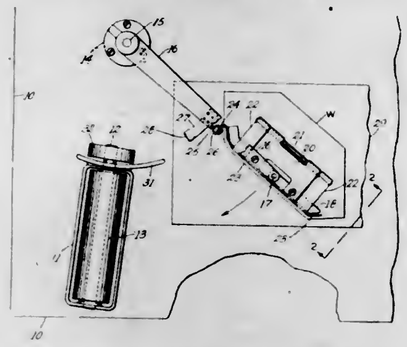


means including a second lever fast with respect to the aforesaid lever and having its pivot axis coaxial with that of the aforesaid lever, and a link connecting the second lever with the said valve member.

1,945,037
STRIPPER FOR CIGAR MACHINE PASTERS

John F. Halstead, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application February 10, 1933. Serial No. 656,167
4 Claims. (Cl. 131—39)

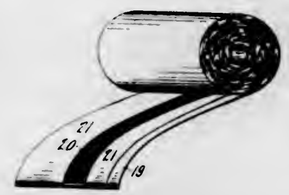


1. In a cigar machine paster, the combination with a paste pot, of a paste roller rotatably mounted in said pot, a paste carrying member, means for moving said member over said roller to receive paste from the roller and into engagement with a wrapper to apply the paste thereto, and a device for stripping the wrapper from said member, said means including an oscillatory shaft, an arm on said shaft, and a leather piece secured to and hanging freely from said arm, said member being connected to said arm, and said roller having a shaft projecting from said pot and provided with a pulley on said projecting end arranged to be engaged by the leather piece on said arm while the latter is swung over said pot and thereby rotate said roller.

1,945,038
CUSHION COVERING MEANS AND METHOD FOR MAKING SAME

John A. Hand, Cleveland, Ohio

Application February 25, 1930. Serial No. 431,089
13 Claims. (Cl. 273—9)

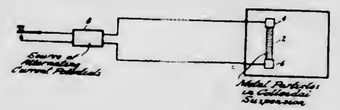


6. A cushion cover strip having a wear member adherently fixed thereon and located thereon so as to cover the working surface of the cushion when said strip is applied thereto.

1,945,039
ULTRASHORT WAVE OSCILLATION GENERATION

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application July 28, 1930. Serial No. 471,310
15 Claims. (Cl. 250—36)

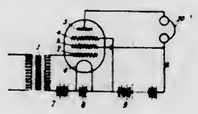


15. Transmitting apparatus having, in combination, a colloidal solution containing metallic particles, and means for producing a discharge through said solution.

1,945,040
MEANS FOR AMPLIFYING ELECTRIC OSCILLATIONS

Gilles Holst and Bernardus Dominicus Hubertus Tellegen, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a limited-liability company of the Netherlands

Application November 25, 1927, Serial No. 235,504, and in the Netherlands December 14, 1926
26 Claims. (Cl. 250—27)



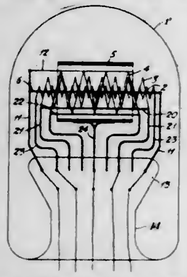
2. An electron discharge device having an electron emitting cathode, an anode, and three grids interposed between cathode and anode, means for connecting the anode to a source of positive potential, means for maintaining the intermediate grid at a constant positive potential, and a direct non-inductive connection between the cathode and the grid nearest the anode.

1,945,041

DISCHARGE TUBE FOR AMPLIFYING ELECTRIC OSCILLATIONS

Gilles Holst and Bernardus D. H. Tellegen, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a limited-liability company of the Netherlands

Original application November 25, 1927, Serial No. 235,504, and in the Netherlands December 14, 1926. Divided and this application February 23, 1933. Serial No. 658,078
11 Claims. (Cl. 250—27.5)



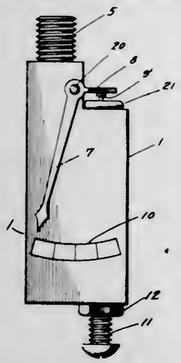
1. A discharge tube having a filamentary cathode, a control grid and an anode, a screening grid interposed between the control grid and the anode, characterized in that the screening grid, on the anode's side, is substantially screened by an auxiliary grid in its proximity, said auxiliary grid being directly electrically connected inside the tube to the cathode.

1,945,042

LIQUID LEVEL GAUGE

Oscar L. Ingram, Walla Walla, Wash.

Application April 8, 1931. Serial No. 528,561
6 Claims. (Cl. 73—31)



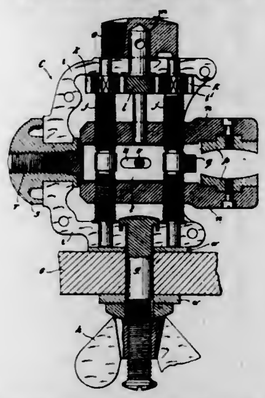
3. In a liquid level gauge, a main gauge-head piece having a part suitable for connecting a pressure air-line thereto, and having a plurality of communicating chambers therein; a liquid in said chambers; a slidable floating member in one of the chambers comprising a main body having an upward extending stem-like part; a graduated scale; a registering piece having a downward extending pointer part movable across a portion of the main gauge head piece containing said chambers and across the graduated scale; and having an arm part shorter than the pointer part and extending at an angle thereto movable by the upward movement of the floating member to move the pointer part.

1,945,043

MACHINE FOR FACILITATING THE STRINGING OF LAWN TENNIS AND LIKE RACKETS

William Edward Berthold Jaffé, Chelsea, London, England

Application May 17, 1933, Serial No. 671,461, and in Great Britain June 10, 1932
10 Claims. (Cl. 273—73)



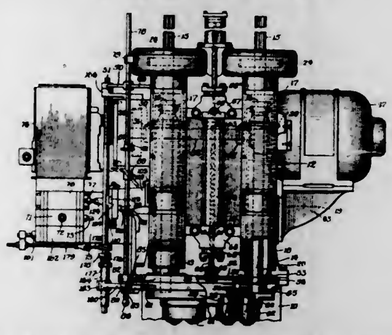
1. In a machine for facilitating the stringing of lawn tennis and like rackets, a racket frame supporting head, a racket frame clamp frame, means for adjustably securing said clamp frame on said head, means in said clamp frame for adjustably engaging the two faces of said racket frame, an abutment in said clamp frame, and means in said clamp frame for adjusting said abutment against the outer periphery of said racket frame.

1,945,044

HONING MACHINE

Albert M. Johnson and Walter M. Fairbairn, Rockford, Ill., assignors to Barnes Drill Co., Rockford, Ill., a corporation of Illinois

Application August 29, 1929. Serial No. 389,116
14 Claims. (Cl. 51—34)



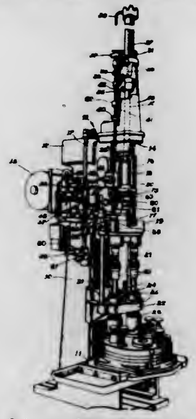
1. A honing machine comprising, in combination, a support, a movable member reciprocable on said support, means for reciprocating said member, said means including a stop element, a rock shaft for actuating said element, a concentric rock shaft, releasable detent means for connecting said shafts for joint rotary movement, torsional spring means connecting said shafts and resisting relative rotary displacement thereof, a cam lever on said last mentioned shaft, and means on said member movable into engagement with said cam lever at one end of the reciprocation to rotate said shafts to actuate said stop element.

1,945,045

HONING MACHINE

Albert M. Johnson, Rockford, Ill., assignor to Barnes Drill Company, Rockford, Ill., a corporation of Illinois

Application August 10, 1931. Serial No. 556,089
30 Claims. (Cl. 51—34)



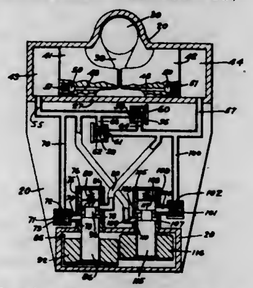
1. In a machine of the character described, the combination with a reciprocable support and actuating means therefor, of a control mechanism of the skip stop type including a device rotatably and slidably supported, a member fixed to the movable support and operatively associated with said device to move it, said device having a normal position in which it is operative to effect continuous reciprocation of the support through a normal range of movement, means operable when a predetermined number of reciprocations has occurred to rotate said device out of said normal position, and means operative as an incident to the last mentioned movement of said device to interrupt the reciprocation of the support.

1,945,046

SHOCK ABSORBER

Carl H. Kindl, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware

Application September 5, 1931. Serial No. 561,322
27 Claims. (Cl. 188—88)



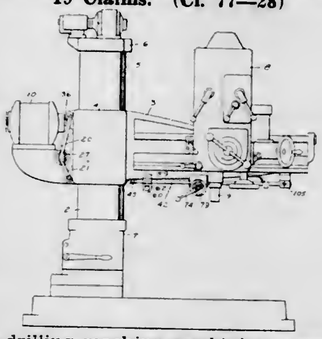
1. A shock absorber comprising, in combination, a casing providing a fluid reservoir and a cylinder; a piston in said cylinder forming a compression chamber therein; a piston reciprocating member; means adapted, in response to fluid pressure, to establish a flow of fluid from the compression chamber; and means adapted, in response to vertical oscillations of the casing, to restrict said flow of fluid from the compression chamber.

1,945,047

HEAD MOUNTED ARM CLAMP AND ELEVATING CONTROL

David C. Klausmeyer, Hyde Park, and Augustus M. Sosa, Cincinnati, Ohio, assignors to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a corporation of Ohio

Application December 5, 1929. Serial No. 411,924
19 Claims. (Cl. 77—28)



1. A drilling machine combining a supporting column; an arm translatably mounted thereon; a drill head translatably mounted on said arm; a reversing clutch driving means for translating said arm in either direction on said column; means for clamping said arm in adjusted position; a single manually operable lever mounted on said head and having two independent paths of movement; connections operated by said lever in one of said paths for selectively operating said reversing clutch means to cause translation in either direction; and connections operable from said lever during its movement in the other path for operating said clamping means.

14. A machine tool combining control mechanism; a control shaft; connections for operating said mechanism by the rotary movement of said control shaft and by the axial movement thereof; an actuating shaft mounted for rotary and axial movement; a first gear connected to rotate with said control shaft but translatable with respect thereto; a second gear connected to rotate with said first gear; clutch means engageable by axial movement of said actuating shaft in one direction for selectively rotating said second gear and thereby said control shaft by rotation of said actuating shaft; a rack carried by said control shaft; a rack gear meshing therewith; and clutch means engageable by axial movement of said actuating shaft in a direction opposite to said first-named direction for selectively rotating said rack gear by rotation of said actuating shaft and thereby to shift said control shaft axially.

1,945,048

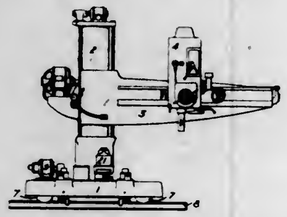
ELECTRIC RAIL CLAMP FOR MOBILE DRILLS

David C. Klausmeyer, deceased, late of Cincinnati, Ohio, by H. Henry Sundermann, executor, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a corporation of Ohio

Application January 13, 1931. Serial No. 508,453
10 Claims. (Cl. 188—43)

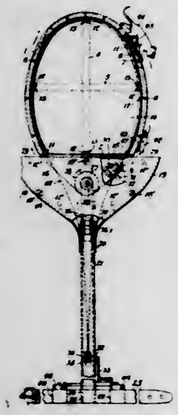
1. A mobile drill combining a base; a track beneath said base; wheels carried by said base

and engaging said track; a plurality of clamp devices for securing said base to said track; power means for simultaneously closing and simultaneously opening all of said clamp devices;



equalizing devices embodied in said power means for insuring that said clamp devices will be set equally; and means for insuring that all of said clamps will be completely opened.

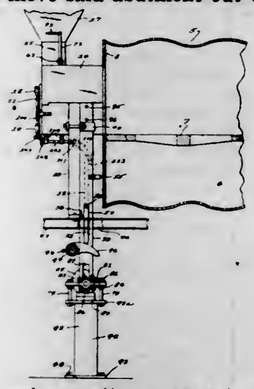
1,945,049
DISPLAY DEVICE
Golladay Lake, Grenada, Miss.
Application May 21, 1931. Serial No. 538,926
6 Claims. (Cl. 40—126)



1. A display device comprising a framework including a portion provided with supporting means for the material to be displayed, a belt mounted on the periphery of said framework and adapted to carry removably attachable objects, a handle for transporting said device, and means associated with said handle for manually driving said belt.

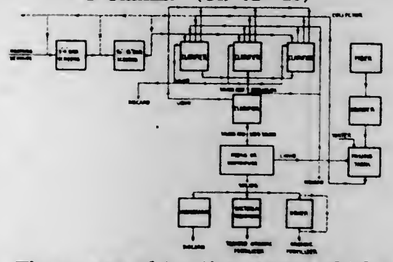
1,945,050
AUTOMATIC STOKER
Louis H. Larsen, Englewood, N. J.
Application March 30, 1932. Serial No. 602,064
3 Claims. (Cl. 110—113)

2. In an automatic stoker for boilers, the combination of a fire box having an opening therein, a shovel casing positioned in front of said opening, a door for said casing, an oscillatory shovel in said casing, a reciprocatory rod operatively connected to said shovel, an abutment pivoted to said rod, means engageable with said abutment to elevate said rod to swing said shovel in one direction, means for swinging the shovel in the opposite direction and door-operated mechanism adapted to move said abutment out of the path



of said shovel operating means to render the stoker inoperative.

1,945,051
METHOD OF TREATING LIQUIDS
William C. Laughlin, Glendale, Calif., assignor, by mesne assignments, to Filtration Holding Corporation, New York, N. Y., a corporation of Delaware
Application April 5, 1930. Serial No. 441,866
4 Claims. (Cl. 71—10)

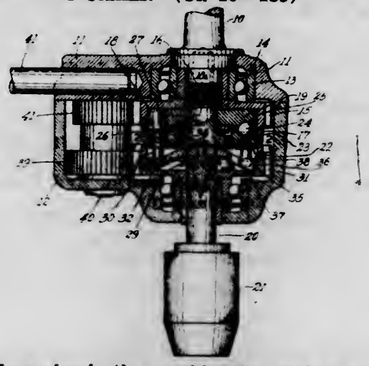


1. The process of treating sewage which comprises passing said sewage through screens to remove the coarse floating particles, applying thereto a collecting agent comprising a finely divided, fibrous material in water suspension, said agent being capable of absorbing grease particles and forming a semi-solid mass, passing said sewage and collecting agent through a clarifier apparatus for removing a portion of the solid free liquid, treating the solids and semi-solids in a second clarifying apparatus for the removal of further liquid therefrom, recirculating said liquid into said first clarifying apparatus for further treatment, and treating the resultant solids and semi-solids for the further elimination of liquid and the production of solids.

1,945,052
GLASS PRODUCT AND METHOD OF MANUFACTURING SPONGE-LIKE GLASS
Bernard Long, Paris, France, assignor to Societe Anonyme Des Manufactures Des Glaces & Produits Chimiques De Saint-Gobain, Chauny & Cirey, Paris, France
No Drawing. Application June 17, 1933, Serial No. 676,403, and in France June 22, 1932
7 Claims. (Cl. 49—77)

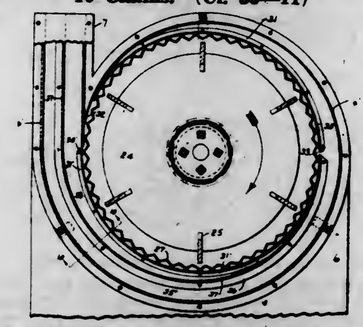
1. A method of manufacturing sponge-like glass, comprising incorporating in a glass batch, gas evolving substances and subsequently maintaining the glass material close to its softening temperature and sufficiently below the fusion temperature to cause said gas evolving substances to evolve considerable quantities of gas and form a sponge-like structure.

1,945,053
CLUTCH FOR TAPPING ATTACHMENTS
Axel G. Lundin, Blairstown, N. J., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application May 9, 1933. Serial No. 670,184
4 Claims. (Cl. 10—135)



1. In a chuck, the combination with a driving shank, of a tool carrying driven spindle, fully releasable mechanism connecting said shank and spindle to drive said spindle in one direction to feed the tool into the work, an overload responsive device on said spindle adapted to release said mechanism when there is an overload on the spindle, gearing driven from said shank for driving said spindle in the opposite direction to withdraw the tool from the work, and a frictional reversing clutch on said spindle for operatively connecting said gearing to the spindle to withdraw the tool from the work, said reversing clutch including means for frictionally connecting said gearing to the spindle whenever an overload on the spindle during the withdrawal of the tool from the work causes the reversing clutch to slip.

1,945,054
HAMMER MILL
Wallace F. MacGregor and Olin M. Geer, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a corporation
Application May 31, 1932. Serial No. 614,434
10 Claims. (Cl. 83—11)

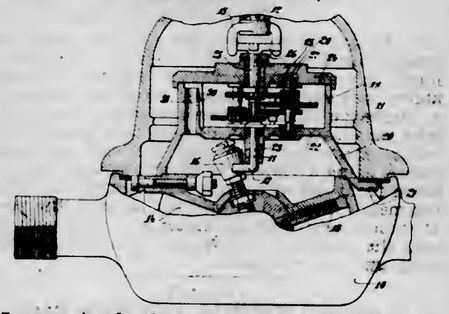


1. In a hammer mill, a casing embodying a material receiving opening and a discharge duct, a cylindrical grinding screen mounted in the casing, means rotatable within and cooperating with said screen for grinding material and discharging the ground product through the screen, and means in a portion of the casing substantially concentric with and in curvilinear relation to the screen and casing for dividing the discharge duct of the casing into concentric channels whereby material discharging through a predetermined portion of the screen will be conveyed through the duct separately from material discharging through another predetermined portion of the screen.

1,945,055
METHOD OF MAKING A RUBBER ARTICLE
Evelyn William Madge, Erdington, Birmingham, England, assignor to Dunlop Rubber Company, Limited, Birmingham, England, a British company
No Drawing. Application August 19, 1930, Serial No. 476,447, and in Great Britain September 19, 1929
8 Claims. (Cl. 154—2)

7. A method of forming a structure of the type described which comprises forming a froth from a dispersion of rubber and vulcanizing material in quantity sufficient to form hard rubber, partially vulcanizing said froth, drying the resulting porous structure, cementing layers of said dried porous structure to a facing material and compressing said structure and vulcanizing it to hard rubber.

1,945,056
METER GEAR HOUSING
William L. Marden, Elmhurst, N. Y., assignor to Neptune Meter Company, New York, N. Y., a corporation of New Jersey
Application May 20, 1932. Serial No. 612,528
1 Claim. (Cl. 73—98)

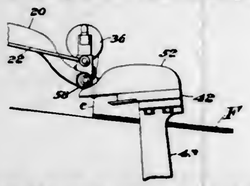


In a meter having a measuring chamber and a cover, a housing for the intermediate gear train of the meter, a skirt on the housing adapted to be secured between the measuring chamber and cover of the meter, and means forming a vent communicating with the upper portion of the interior of the housing and extending through the bottom of the housing to communicate with the region under the skirt.

1,945,057
PILE FABRIC LOOM
Howard Mason, Saxonville, Mass.
Application December 3, 1931. Serial No. 578,670
5 Claims. (Cl. 139—9)

1. In a pile fabric loom provided with tube frames, in combination, shed forming mechanism, a tube frame conveyor, clutches adapted to engage the opposite ends of a tube frame and move it from the conveyor to the tuft inserting posi-

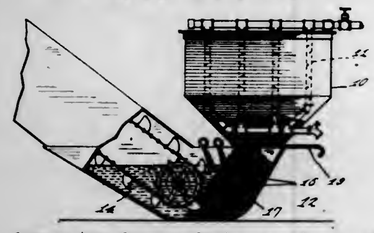
tion to supply tuft yarns to the fabric, a projection adjacent each clutch, blocks supported at the front of the loom for movement by a going part of the loom towards a lowered tube frame and adapted to cooperate with said projections



to lift the tube frame adjacent the fabric to an accurate predetermined position, and an eccentric associated with each projection and adapted to be secured in different positions of angular adjustment to vary the lifting action of the blocks upon the tube frame.

1,945,058
APPARATUS FOR PREPARING PAVING MATERIAL

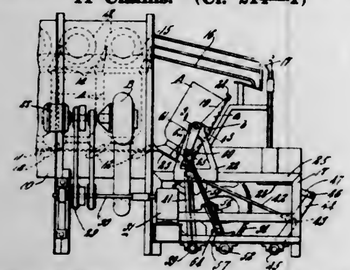
Kenneth E. McConnaughay, Indianapolis, Ind., assignor to Pre Cote Corporation, Indianapolis, Ind., a corporation of Indiana
Application March 4, 1931. Serial No. 519,993
9 Claims. (Cl. 94—43)



1. Apparatus for producing paving material, comprising a vat adapted to contain a supply of liquid binder, an aggregate hopper arranged above said vat, said hopper being provided with a discharge opening through which aggregate may pass into said vat, conveying means for elevating aggregate from said vat, said conveying means being arranged to permit excess binder to drain from the aggregate, and aggregate-agitating means disposed in said vat between the point at which aggregate is discharged into said vat and the point at which said conveying means picks up the aggregate.

1,945,059
WASHING MACHINE FOR MILK CANS

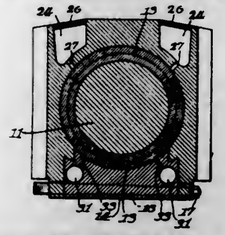
John P. McKinley, Buffalo, N. Y.
Application May 16, 1932. Serial No. 611,454
11 Claims. (Cl. 214—1)



1. In a washing machine for milk cans and the like, a track along which inverted cans may travel, positively actuated means associated with the track for propelling the inverted cans step by step along said track, a can receiving cradle disposed in a position to receive a can from said track, a continuously rotating member, a crank and connecting rod connection between said member and said cradle for oscillating the cradle about a single axis to fully invert the can, and then return to can receiving position said connection having its dead center positions when the cradle is in can receiving and discharging positions, means disposed to receive the inverted cans and convey them away from the cradle, and means connecting said rotating member and said positively actuated means for causing their movements in timed relation to one another, whereby said cradle will always be in proper position to receive a can advanced along said track by said propelling means and delivered to said cradle.

1,945,060
FLOATING DRIVING BUSHING FOR LOCOMOTIVES

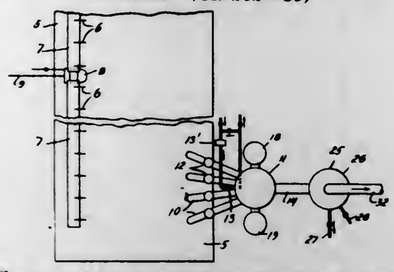
James C. McVay, Plattsmouth, and Henry H. Urbach, Lincoln, Nebr.
Application September 20, 1928
Serial No. 307,070
7 Claims. (Cl. 308—43)



6. In a locomotive driving box, a housing open at the bottom to receive a driving wheel axle, said housing extending around substantially two-thirds of the periphery of the axle over the top and sides of the axle, a three-part floating bushing in said housing extending around the axle, and a filler block complementary to said housing engaging the remaining lower portion of the floating bushing.

1,945,061
ELECTRICAL PRECIPITATION

Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
Application June 8, 1929. Serial No. 369,496
1 Claim. (Cl. 202—30)



The method of treating fresh hot coal distillation or hot coal carbonization gases, which comprises spraying the gases with tar whereby distillation thereof is effected and the residue from such distillation remains suspended in the gases, subjecting the gases with such residue suspended therein to an electrical discharge by passing them down thru the tubes of an electrical precipitator, whereby entrained matter is removed from the gases, and passing the gases enriched in condensable constituents volatilized from the tar sprayed into the gases to condensing means, and recovering clean condensates therein, which comprise ingredients originally present in the gases as they left the coal distillation or coal carbonization means, and ingredients originally present in the tar sprayed into the gases, the residue suspended in the gases entering the precipitator tubes being sufficient to provide adequate washing of the tubes and prevent the accumulation of insoluble carbonaceous material thereon.

1,945,062
GOLF BALL

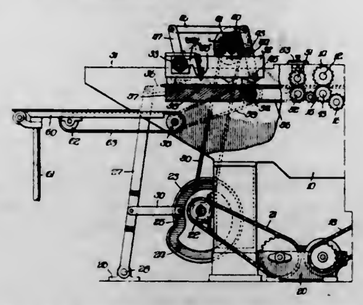
Thomas W. Miller, Ashland, Ohio, assignor to The Worthington Ball Company, Elyria, Ohio, a corporation of Ohio
Application July 17, 1930. Serial No. 468,530
16 Claims. (Cl. 273—62)



1. A casing for the fluid material of a golf ball of the fluid core type, constructed from a pair of substantially hemispherical shells of rubber or like material, joined together at their annular edges, and a portion of the external spherical surface of one shell being flattened relative to its adjacent inner surface to provide a relatively thin wall portion, and a pair of spaced perforations in the said wall portion, through one of which filling material may be injected and out of the other of which air may escape.

1,945,063
CUTTING MECHANISM

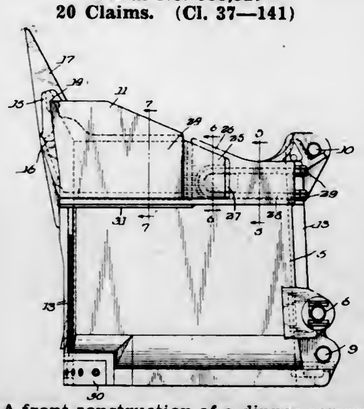
Albert E. F. Moone, Chicago, Ill., assignor to Orenda Corporation, Chicago, Ill., a corporation of Illinois
Original application November 1, 1930, Serial No. 492,740. Divided and this application July 25, 1932. Serial No. 624,544
4 Claims. (Cl. 164—43)



1. Material cutting mechanism comprising reciprocating members providing a mounting for a cutter shaft, a cutting blade secured to said shaft, a cam rotatably mounted in said members, means rotating said cam, and connections from the came to the cutter shaft for imparting a cutting movement to the blade.

1,945,064
EXCAVATING IMPLEMENT

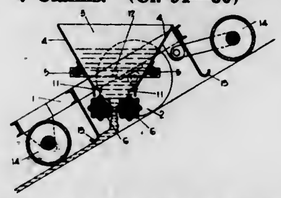
Joseph P. Murtaugh, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago Heights, Ill., a corporation of Maine
Application December 26, 1931
Serial No. 583,317
20 Claims. (Cl. 37—141)



10. A front construction of a dipper comprising a trough-shaped body section, a separate upper trough-shaped section, and means for preventing deflection of end portions of said upper section comprising grooves in one of said sections into which portions of the other of said sections extend, said grooves opening in the direction of the planes of the side walls of said body section.

1,945,065
TRANSPORTABLE APPARATUS FOR APPLYING BITUMINOUS COVERINGS, PARTICULARLY TO CANAL WALLS AND THE LIKE INCLINED SURFACES

Hans Mösslang and Hartwig Volbehr, Munich, Germany, assignors to Shell Development Company, San Francisco, Calif.
Application March 25, 1932, Serial No. 601,277, and in Germany March 27, 1931
7 Claims. (Cl. 91—30)



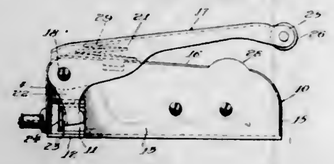
1. Transportable apparatus for applying bituminous coverings especially to inclined surfaces, comprising a carriage frame, a funnel-shaped container swingingly supported in said frame and adapted to be filled with a bituminous substance, a discharge slot at the bottom of said container and resiliently supported conveying rollers confining said slot.

1,945,066
MOTOR CONTROLLER

Emanuel Nielsen, Racine, Wis., assignor to Hamilton Beach Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application September 29, 1932
Serial No. 635,357
2 Claims. (Cl. 74—81)

1. A motor controller comprising a portable housing, a treadle plate extending over said

housing and having pivotal connection with the housing adjacent one end thereof, spring means cooperating with said housing and the treadle plate to normally maintain the free end of said plate elevated above said housing, a roller rotatably mounted in the free end of said treadle



plate, and stop means extending between said housing and plate to space said roller from said housing when the plate is depressed, whereby the tendency of the housing to move relative to its support during operation of the treadle plate is eliminated.

1,945,067

PROCESS FOR THE PHOTOCHEMICAL OXIDATION OF ORGANIC AND INORGANIC COMPOUNDS

Franz Nosicka, Vienna, Austria, assignor to the firm Vereinigte Chemische Fabriken Kreidl, "Heller & Co.", Vienna, Austria

No Drawing. Application September 6, 1930, Serial No. 480,194, and in Austria October 19, 1929

8 Claims. (Cl. 260—108)

1. The process of photochemical oxidation which comprises subjecting to irradiation the compound to be oxidized in the presence of oxygen and in conjunction with at least two different oxidizing catalysts, one of said catalysts being an anthraquinone type catalyst.

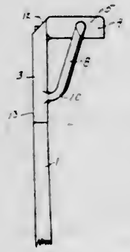
1,945,068

FISHLINE GUIDE

Charles V. Noyes, Geneva, Ohio, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio

Application July 15, 1929. Serial No. 378,248

3 Claims. (Cl. 43—24)



1. In a tip top line guide for fishing rods of the type terminating in a slender steel tip, a sleeve open at both ends to be rigidly telescoped over the rod tip and affixed thereon, a line guide element having a metallic annular portion affixed directly to the tip end of the sleeve and supported transversely pendant therefrom, and a wire loop integrally uniting lateral portions of the annular guide portion and a portion of the sleeve spaced from its said tip end.

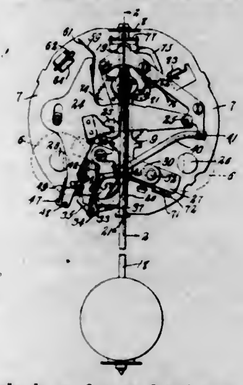
1,945,069

CLOCK

Arthur F. Poole, Ithaca, N. Y., assignor to Poole Manufacturing Co., Inc., Ithaca, N. Y., a corporation of New York

Application March 21, 1930. Serial No. 437,735

19 Claims. (Cl. 58—30)



1. In a clock, a frame having a plate, clock mechanism supported by said frame and including an oscillating armature, a leaf spring supported intermediate of its ends by said plate, with its free ends engageable by opposite ends of said armature to limit resiliently the arc of oscillation of said armature.

1,945,070

BRAKE CONTROL MECHANISM

Frederick W. Pooley, Philadelphia, Pa.

Application December 12, 1930

Serial No. 501,759

8 Claims. (Cl. 188—167)

1. In a brake control mechanism, a control lever mounted on a shaft for transmitting energy to a brake mechanism, a roller operatively positioned for movement along the surface of the lever, energized means associated with said roller, means for pivotally mounting said energized means whereby the force therefrom is exerted through the center of the shaft on which the lever is mounted when the roller is in an inoperative position, said energized means pivoting to an operative position upon the movement of the roller along the lever.

1,945,071

HYDRAULIC TURBINE

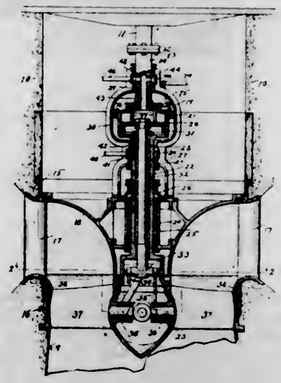
Harry E. Popp, York, Pa.

Application August 31, 1927. Serial No. 216,514

19 Claims. (Cl. 253—148)

1. In a hydraulic turbine, a runner comprising a hub having a spherical surface, a plurality of vanes rotatably adjustable in said hub about axes

meeting in the center of said spherical surface, and an enclosing wall for the outer extremities of the vanes, said wall having a spherical surface



concentric with said first named spherical surface, the inner and outer extremities of the vanes being curved to conform to circles struck from the center of said spherical surfaces.

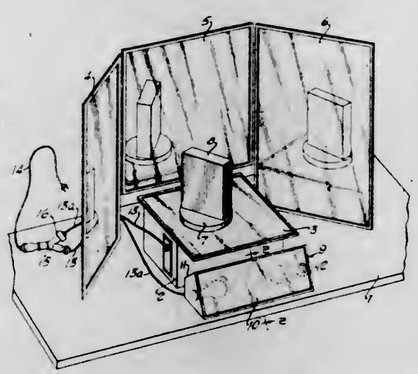
1,945,072

DISPLAY APPARATUS

Wirt S. Quigley, New York, N. Y., assignor to Quigley Company, Inc., a corporation of New York

Application June 24, 1932. Serial No. 619,066

5 Claims. (Cl. 40—33)



1. In a display stand the combination of a horizontal stationary mirror exposed to the view of the observer, a disc of much less area than said mirror rotatably mounted above it closely adjacent to its upper surface and substantially centrally thereof, to support an article to be placed thereon for display, means for rotating said disc, and a plurality of vertical mirrors placed behind said disc and horizontal mirror and partly surrounding them; whereby the observer, when gazing downward on said article from a position opposite said vertical panels, will also see a variety of reflections of various sides thereof at various angles produced by said assemblage of mirrors.

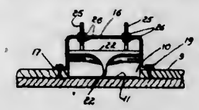
1,945,073

FINAL MOLDING APPARATUS FOR BREAD ROLLS AND THE LIKE

Jacob Lauder Raith, Petersham, near Sydney, New South Wales, Australia, assignor of fifty-one per cent to Automatic Bread Baking Company, Limited, Sydney, New South Wales, Australia

Application April 24, 1930, Serial No. 446,919, and in Australia September 12, 1929

6 Claims. (Cl. 107—9)



1. A molding board for apparatus of the class described comprising, a board-like member having a longitudinally disposed ridge depending centrally therefrom, said ridge gradually developing from a blunt nose at one end to a narrower portion at the other end, and also decreasing in depth towards the blunt end and merging into the under face of the board at the blunt end, each side of the ridge merging into the under face of the board along concavities of decreasing depth towards the blunt end of the ridge.

1,945,074

RECOVERY OF SELENIUM

Oliver C. Ralston and Leonard Klein, Clarkdale, Ariz., assignors to United Verde Copper Company, a corporation of Delaware

No Drawing. Application November 11, 1930

Serial No. 494,923

12 Claims. (Cl. 23—209)

1. The method of treating copper sulphide ore which comprises smelting the ore to produce matte, treating the matte to eliminate sulphur, and subjecting the resulting product in the form of a molten bath to the action of a slag containing one or more alkali metal compounds under reducing conditions.

1,945,075

WIRE STRETCHER

Frank R. Richards and Andrew H. Richards, Grand Junction, Colo.; said Frank R. Richards assignor to said Andrew H. Richards

Application December 21, 1929, Serial No. 415,744

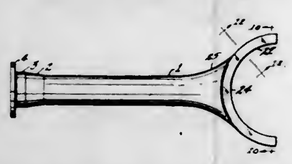
Renewed August 1, 1933

2 Claims. (Cl. 254—67)



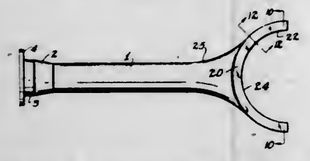
2. In a wire stretcher of the class described, the combination of a tubular body, a draw bar fitted within said body and extending through and beyond the ends thereof, said draw bar having a portion of its surface threaded, a gear housing attached to said body, a gear within said housing and mounted on the draw bar and provided with threads adapted to mesh with the threads of said draw bar, a worm gear meshing with the gear, means for rotating the same whereby the draw bar is fed through the body, means attached to the body for securing the device to a post, and means carried by the draw bar for gripping a wire to be stretched.

1,945,076
METHOD OF MAKING WELDED AXLE HOUSINGS
Ernest Riemenschneider, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application September 11, 1930
Serial No. 481,177
12 Claims. (Cl. 29—153.1)



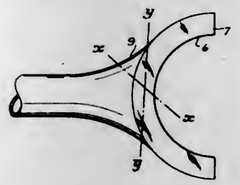
1. A method of forming axle housings for automotive vehicles from hollow tubing, which consists in upsetting one end of each of two sections of tubing and increasing the diameter of part of the upset portion sufficiently to bring it to approximately the original thickness of the tube and bending the end of the upset portion normal to the tubing and forming a thickened flange of the bent over material whereby to reduce the length of the section, forming the other end of each of said sections of tubing into a semi-annular U-shaped channel to further reduce the length of the section, butt welding the ends of said semi-annular channels to form a complete axle housing, the gear housing portion of which is substantially circular.

1,945,077
METHOD OF MAKING WELDED AXLE HOUSINGS
Ernest Riemenschneider, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application October 7, 1930. Serial No. 486,971
2 Claims. (Cl. 29—153.1)



1. A method of forming axle housings for motor vehicles, which consists of changing the relative diameters of a portion of each of two lengths of tubing to impart the proper length for a housing section and to form an enlarged end on each, upsetting the smaller end of the tubing to render the wall thickness thereof greater than the wall thickness of the original stock to bring the tubing to appropriate length, increasing the outside diameter of the upset portion intermediate the end and the remainder of the tubing gradually outwardly from the tubing while maintaining the thickness of said tapered portion greater than the stock, and turning the outer portion of the upset portion into a brake apron flange of greater thickness than the stock, and bifurcating the enlarged end and bending the bifurcated portions into outwardly extending arcuate forks of substantially U-shape cross section and securing together the members thus formed in end to end relation by welding the ends of the forks of one to the ends of the forks of the others.

1,945,078
METHOD OF MAKING AXLE HOUSINGS
Ernest Riemenschneider, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application December 31, 1930
Serial No. 505,876
10 Claims. (Cl. 29—153.1)

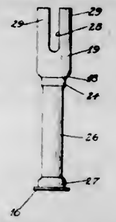


1. A method of forming axle housings which comprises forming a predetermined length of tubing near one end thereof into an outwardly bowed annulus having walls of substantially the same thickness as the tubing, bifurcating the annulus and adjacent end with longitudinal slots extending to the free end of the tubing, spreading the bifurcated portions apart and forming them into outwardly extending arcuate forks and welding the ends of said forks to the ends of the forks of another similar member held in axial alignment therewith.

1,945,079
METHOD OF FORMING AXLE HOUSINGS
Ernest Riemenschneider, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application February 10, 1931. Serial No. 514,774
6 Claims. (Cl. 29—153.1)

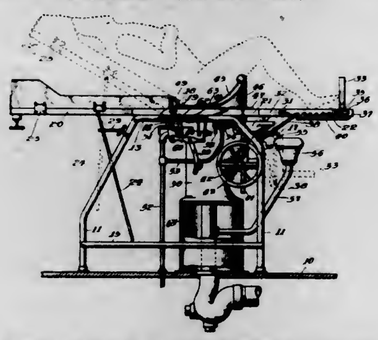
1. A method of forming straight tubular stock into tubular blanks having a large diameter end portion, and a larger diameter swelled portion intermediate the large end and main body of the tubing, including subjecting the tubing to concurrent axial and inward radial pressures to reduce the diameter of the main body thereof to a diameter less than the end portion and to cause part of the metal to move toward the portion to be swelled, continuing the axial pressure and arresting the inward radial pressure and applying outward radial pressure at the portion to be swelled and continuing the application of the axial and outward radial pressures to swell such portion and to continue the movement of metal into the swelled portion.

1,945,080
METHOD OF MAKING AXLE HOUSINGS
Rudolph H. Thoms, Cleveland, Ohio, assignor to Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application July 15, 1931. Serial No. 550,843
14 Claims. (Cl. 29—153.1)



1. Method of forming axle housings consisting of swaging one end of tubular stock to increase its wall thickness while leaving the other end at its original size, reducing the diameter of the intermediate portion of the stock by drawing out said portion and maintaining the constant original wall thickness throughout the stock up to the thickened end; bowing outwardly the thickened end and forming a flange thereon, and then forming said other end into a substantially forked portion having wall thickness no thinner than other portions of housing.

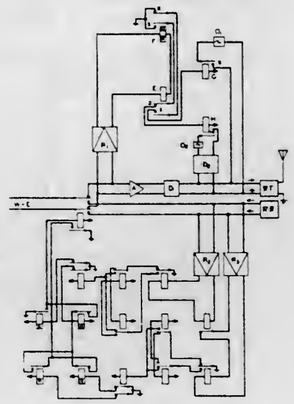
1,945,081
LAVAGE TABLE
Edmund J. Ryan and Maurice H. Kowan, Chicago, Ill.
Application July 13, 1931. Serial No. 550,464
9 Claims. (Cl. 128—227)



1. A lavage table provided with an opening in its table top, and a combination seat and guard on the table surrounding said aperture, the seat being inclined upwardly from its rear toward the front of the table, and adapted to support the hips and thighs of a patient when in a semi-reclining position.

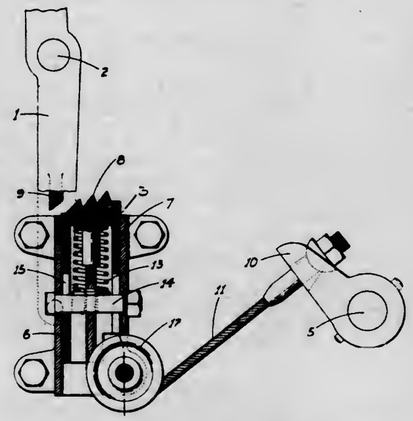
1,945,082
VOICE OPERATED SWITCHING
Edward K. Sandeman and Frederick G. Filby, Aldwych, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Applicat'on January 23, 1931, Serial No. 510,617, and in Great Britain February 12, 1930
6 Claims. (Cl. 178—44)

6. In a telephone transmission system, means under control of the voice currents for transmitting an auxiliary preliminary signal automatically with the commencement of talking and



means for transmitting an auxiliary following signal automatically with the cessation of talking.

1,945,083
AUTOMATIC RELEASE FOR EMERGENCY BRAKES
Richard P. Santos, Stockton, Calif., assignor of one-third to Elmer E. Tucker and one-third to Ernest H. Santos, both of Stockton, Calif.
Application January 14, 1933. Serial No. 651,699
2 Claims. (Cl. 74—39)



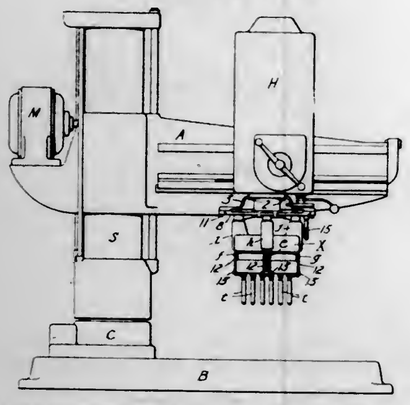
1. In a motor vehicle having a brake lever, a depressible clutch element and a shaft rotated by a depressing movement of the element, a catch lug on the lever, a tooth member for engagement with the lug when the lever is moved to a brake setting position, a fixed support in which the member is slidably mounted for movement away from the lug, an arm projecting from the shaft, a sheave on the support beyond the member, and a flexible element connected to the member and arm and passing about the sheave.

1,945,084

INDEXIBLE MULTIPLE SPINDLE HEAD FOR DRILLING MACHINES

Lawrence Lee Schauer, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Oakley, Ohio, a corporation of Ohio

Application September 22, 1931
Serial No. 564,293
4 Claims. (Cl. 77—28)



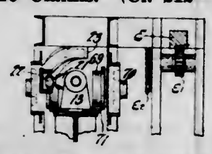
1. In a drilling machine provided with a column; an arm projecting radially therefrom and movable angularly thereabout, a main tool-head mounted on said arm and a main spindle rotatably and translatably journaled in said tool-head; a bracket removably secured to the lower end of said tool-head and having a hub affording a bearing for said spindle, said bracket also being provided with a plurality of locating devices; a plate rotatably journaled on said hub and supported on said bracket and indexible about the axis of said spindle; an auxiliary multiple tool-head yieldingly supported on said plate and movable axially with said spindle; a plurality of auxiliary tool spindles journaled in said auxiliary tool-head; means to rotate said auxiliary tool spindles from said main spindle; means to index said plate and auxiliary tool-head relative to said bracket; and detent means carried by said plate and cooperating with said locating devices to lock said plate to said bracket in any one of a plurality of predetermined angular positions.

1,945,085

DOOR REMOVING AND REPLACING DEVICE

Eugene W. Schellentrager, Shaker Heights, Ohio

Application June 8, 1932. Serial No. 616,019
16 Claims. (Cl. 212—4)



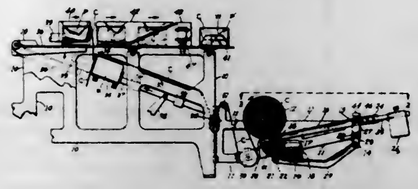
1. A machine for coking ovens comprising a ram movable longitudinally, an oven door operating means pivotally mounted on said ram to swivel the door horizontally relative to said ram and comprising a member stationary on the machine and having a spirally extending groove therein, a roller on and movable with said ram and engaging said groove to swivel the door upon a longitudinal movement of said ram, a door engaging means carried by said door operating means and individually operable to engage and to release the door.

1,945,086

HEAT SEALING PACKAGE

Frank Reinhold Schmitt, Queens Village, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey

Application November 20, 1930
Serial No. 496,982
13 Claims. (Cl. 93—2)



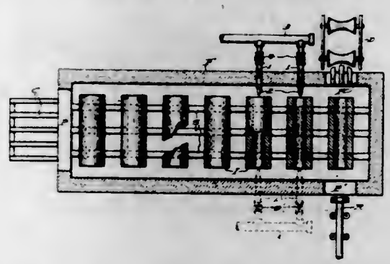
1. The combination with a wrapping machine having heat sealing means, of a reel for supplying wrapping material to said machine, and means coacting with the reel to apply longitudinal stripes of a heat sealing compound along the outer layer on the reel for coaction with said heat sealing means.

1,945,087

METHOD OF TREATING CAST HOLLOW INGOTS

Jacob C. Siegle, Youngstown, Ohio, assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio, a corporation of Ohio

Application January 29, 1932. Serial No. 589,563
8 Claims. (Cl. 29—160.4)



1. The method of preparing a hollow ingot for subsequent working which comprises the steps of heating the ingot to working temperature and during such heating introducing into the interior thereof gaseous oxidizing fluid to form a scale, and thereafter working the ingot to free the scale from the bore.

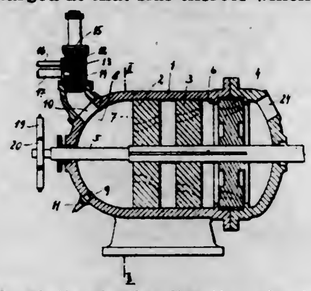
1,945,088

FLUID PRESSURE ROTARY ENGINE

Eugen Silbermann and Julius Stolcz, Oradea-mare, Rumania, assignors, by direct and mesne assignments, to Explorator A. G., Glarus, Switzerland, a corporation of Switzerland

Application November 19, 1929, Serial No. 408,199, and in Austria November 28, 1928
1 Claim. (Cl. 253—91)

In a fluid pressure rotary engine, a rotor provided with reaction channels for the driving medium, the cross-sectional area of said channels being enlarged at that side thereof which is foremost with relation to the direction of rotation of the rotor.

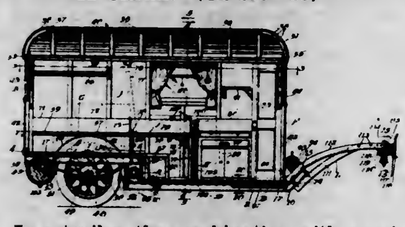


1,945,089

AUTOMOBILE TRAILER

James W. Small and Elmer W. Pahlke, Chicago, Ill.

Application June 1, 1931. Serial No. 541,226
11 Claims. (Cl. 296—23)



1. In a trailer, the combination with a pair of wheels, of a frame having a portion arranged between said wheels and supported thereby, said frame having a second portion arranged forwardly of said wheels and below that portion of the frame arranged between said wheels, flooring covering the entire frame, a portion of said flooring being arranged over said wheels and a substantial distance above the axes of rotation thereof to provide a storage space between said wheels extending across a vertical plane through the axes of rotation of said wheels and below said flooring accessible from within said trailer, a closed body supported by said frame, walls forming a storage compartment in said storage space, said compartment being accessible from within said body.

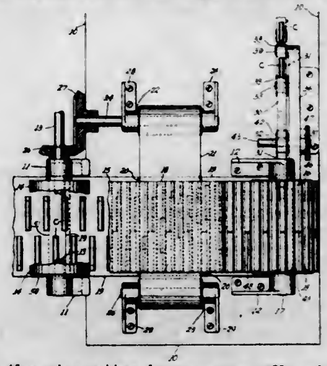
1,945,090

CIGARETTE ALIGNING DEVICE

Elberon D. Smith, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey

Application February 1, 1933. Serial No. 654,699
5 Claims. (Cl. 131—39)

1. In a cigarette collector for tipped cigarettes, the combination with an endless conveyor provided with an even number of open compartments, said compartments extending transversely of said conveyor, and consisting of alternate compartments having a transverse wall at one end and other compartments having a transverse partition between their ends, a table underlying said conveyor, means for delivering tipped cigarettes endwise on said table into each of said compartments, whereby the cigarettes are pushed sidewise along said table, and an endless travelling belt on said table moving transversely of said conveyor to engage and move the cigarettes in each compartment endwise against said end walls and partitions respectively, whereby the cigarettes are aligned in two separate rows with the tips of the cigarettes in one row all pointing in one direction and the tips of the cigarettes in the other row all pointing in the other direction.

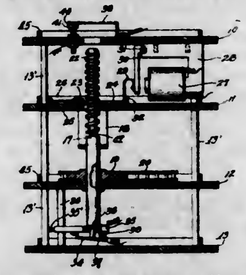


1,945,091

TIMER AND SYSTEM

Eugene D. Stirlen and Charles D. Geer, New Haven, Conn., assignors to The Engineering and Research Corporation, New Haven, Conn., a corporation of Connecticut

Application April 1, 1930. Serial No. 440,701
3 Claims. (Cl. 200—27)



1. A timer including a screw threaded shaft, means for rotating the same, means whereby said shaft may shift axially with respect to said rotating means, a circuit breaker to be operated by movement of said shaft to a predetermined extent, means engageable with the threads of said shaft to permit the latter to shift, and said threads terminating in a continuous groove whereby, upon said shaft having shifted to a predetermined extent, further axial movement thereof is prevented.

1,945,092

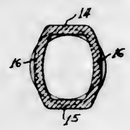
METHOD OF FORMING AXLES FOR AUTOMOBILES OR THE LIKE

George B. Storer, Detroit, Mich., assignor, by mesne assignments, to Urschel Engineering Company, Toledo, Ohio, a corporation of Ohio

Original application January 13, 1930, Serial No. 420,544. Divided and this application February 27, 1931. Serial No. 518,627
2 Claims. (Cl. 29—153)

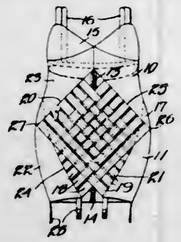
1. That method of forming a spring perch seat for an automobile axle which consists in providing a tube, heating a portion of the tube until the metal is relatively soft, upsetting the tube axially to force the relatively soft metal of said portion

together for increasing the wall thickness in that region, forcing said portion outwardly to provide substantially uniform internal diameter, squeez-



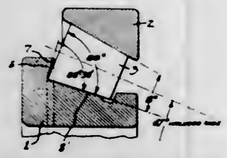
ing the tube at such portion to bow the sides outwardly, and forming a hole through the tube for reception of a spring perch bolt or similar securing means.

1,945,093
GIRDLE
Mabel S. Strait, Tulsa, Okla.
Application March 2, 1933. Serial No. 659,366
5 Claims. (Cl. 2—27)



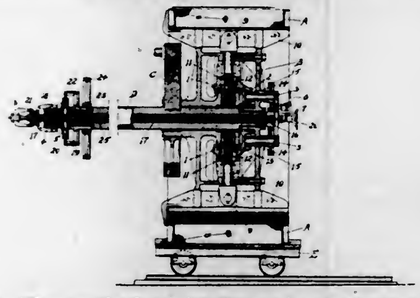
1. A device of the kind described comprising a pair of upper and a pair of lower flexible side elements, said upper and lower elements on one side being arranged to overlap each other, a lattice work comprised of flexible parallel strips arranged at right angles with similar parallel flexible strips and interwoven with them, said strips being secured at one end to the edge of one of the upper side strips and at their other ends to the edge of the opposite lower side strip, substantially as set forth.

1,945,094
TAPER ROLLER BEARING STRUCTURE
Silas A. Strickland, Detroit, Mich.
Application August 19, 1931. Serial No. 558,093
9 Claims. (Cl. 308—214)



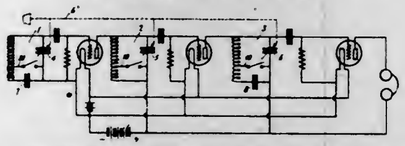
1. A taper roller bearing provided with concentric conical faces co-operative with tapered rolls therebetween to produce a resultant endwise thrust of the rolls when assembled for service and having a shoulder positioned to receive and resist such thrust, said shoulder having a conical thrust face co-operative with the opposing thrust face of a roll to produce a contact relation therebetween of such thrust faces within an overlapping area of such opposing thrust faces, with the resultant contact including approximately an extended portion of the boundary of the overlapping area remote from the roll axis.

1,945,095
REEL APPARATUS AND METHOD OF LOADING REELS
Charles C. Sunderland, New Brunswick, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a corporation of New Jersey
Application January 9, 1931. Serial No. 507,743
5 Claims. (Cl. 242—72)



1. The method of loading wire reel drums and the like for rotation which consists in moving the drum into position on an expanding drum carrier with the center of the drum below the axis of the carrier supporting the drum in said position independently of the carrier and expanding the carrier to raise the drum from the support and secure it to the carrier.

1,945,096
CONVERTIBLE BAND PASS RECEIVER
Bernardus Dominicus Hubertus Tellegen, Eindhoven, Netherlands, assignor to Radio Corporation of America, a corporation of Delaware
Application February 18, 1931, Serial No. 516,549, and in the Netherlands April 15, 1930
10 Claims. (Cl. 178—44)

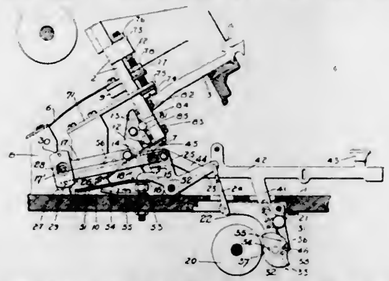


1. In combination, a series of tunable circuits, a space discharge device coupling each pair of adjacent circuits, reactive means in at least two of said circuits to effect such staggering of the resonance curves of all the circuits that the over-all resonance curve of the circuits is wider when receiving long waves than when receiving short waves, and means for selectively rendering said last means inoperative for receiving short waves.

1,945,097
TYPEWRITING MACHINE
Russell G. Thompson and Chester W. Crumrine, Rochester, N. Y., assignors to Electromatic Typewriters, Inc., Rochester, N. Y., a corporation of New York
Application June 15, 1931. Serial No. 544,345
8 Claims. (Cl. 197—74)

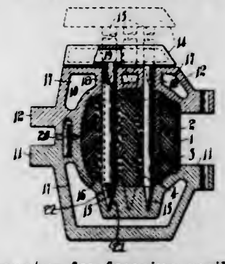
1. In a typewriting machine, the combination of a frame, a platen, a type basket, a type bar movably mounted in said type basket, upper and lower case types on said type bar, means for shiftably supporting the type basket on the frame, a bell crank mounted in the frame, means operatively connecting one arm of said bell crank with the type basket, a lever pivoted on the frame, a link pivotally connected at one end to said lever and at its other end to the other arm of said bell crank and having its pivots in substantial alinement with the pivot of the lever

when the type basket is in one shift position and out of such alinement when the basket is in another shift position, and key controlled means



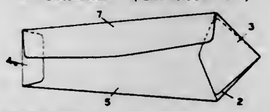
for swinging said lever in one direction or the other to shift the type basket from one case position to another.

1,945,098
APPARATUS FOR AND PROCESS OF FORMING RESILIENT TIRES
Hugh Thorburn, Toronto, Ontario, Canada
Application March 29, 1932. Serial No. 601,747
6 Claims. (Cl. 18—38)



1. In apparatus for forming resilient tires, the combination of a circumferentially divided mould, one of said mould sections having a plurality of rows of holes formed therein; prong carrying means, pointed hollow prongs carried by said means adapted to be projected through said holes into said mould, and means for supplying a vulcanizing medium to the interior of said prongs.

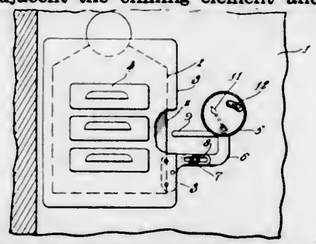
1,945,099
WRAPPER FOR NECKTIES
Donald T. Trestrail, Tulsa, Okla.
Application April 10, 1933. Serial No. 665,374
5 Claims. (Cl. 229—87)



1. A wrapper for a pointed four-in-hand necktie comprising an envelope longer than it is wide, pointed at one end in manner adapted to receive the pointed end of said necktie, and having its sides tapering towards the other end, and a flap opening along one of said sides.

1,945,100
DEFROSTING INDICATOR FOR MECHANICAL REFRIGERATORS
Frederick J. Troll, Towson, Md.
Application August 24, 1932. Serial No. 630,315
4 Claims. (Cl. 177—311)

4. An indicating instrument for use in connection with a mechanical refrigerator having a chilling element, the same consisting of a thermally sensitive element, an indicating device connected thereto to be controlled thereby, the thermally sensitive element being located immediately adjacent the chilling element and spaced

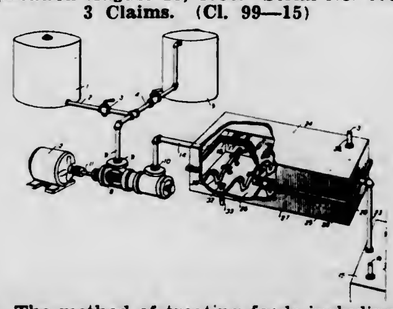


therefrom by an interval equal to the thickness to which the frost is to be permitted to accumulate, contact of the frost with the thermally sensitive element serving to operate the indicator, thereby to indicate the need for defrosting.

1,945,101
MANUFACTURE OF NITRO-CELLULOSE
Ernest Tschudin, Reinach, near Basel, Switzerland
No Drawing. Application June 25, 1930, Serial No. 463,830, and in Great Britain June 16, 1928
10 Claims. (Cl. 260—146)

1. A process for the preparation of nitro-cellulose starting from wood pulp, which consists in treating said wood pulp with soda lye and carbon-bisulphide so as to form a slightly gelatinous paste, forming said paste into pellets, immersing said pellets in a hardening solution, and nitrating said pellets.

1,945,102
METHOD OF TREATING FOOD PRODUCTS
Samuel Tranin and Rudolph M. Snyder, Kansas City, Mo.; said Snyder assignor to said Tranin
Application August 18, 1930. Serial No. 476,023
3 Claims. (Cl. 99—15)

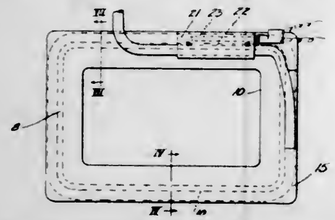


1. The method of treating foods including introducing chlorine gas to a stream of liquid food to destroy bacteria therein, and passing said food in a continued stream closely adjacent a violet ray lamp to cause rays from the lamp to penetrate said stream, and permit the heat normally produced incidentally to production of said rays to evaporate the gas.

1,945,103
EVAPORATOR
George A. Vis, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a corporation of Michigan
Application January 5, 1929. Serial No. 330,466
15 Claims. (Cl. 62—95)

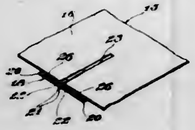
1. A refrigerating apparatus including a cooling unit comprising a metallic sleeve member

of substantially rectangular cross-section provided with a plurality of transversely extending spaced integral fins upon three sides of its exterior surface, and a cooling coil surrounding said sleeve, said coil comprising a single helically



wound tube disposed in the space between adjacent fins over the three finned sides of the sleeve and passing to the next adjacent space between fins while crossing over the fourth side of said sleeve.

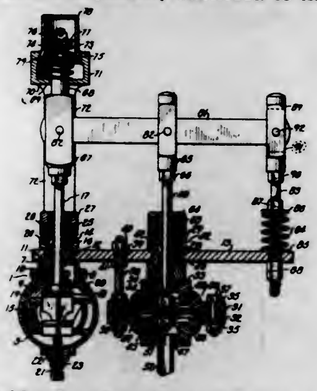
1,945,104
BUTTONHOLE AND METHOD OF MAKING THE SAME
Dave Zilinsky, New York, N. Y., assignor to The Reece Button Hole Machine Company, Boston, Mass., a corporation of Maine
Application June 12, 1933. Serial No. 675,336
6 Claims. (Cl. 2—277)



1. A piped buttonhole comprising a main fabric and a piece of piping fabric, said fabrics having registering slits, said main fabric having inturned portions along the edges of the slit therein, and said piping fabric being folded upon itself along two lines at opposite sides of the slit therein, and lines of stitching securing said fabrics together adjacent the longitudinal edges of the buttonhole, said stitching passing through both layers of the folds in said piping fabric and through the inturned portions only of said main fabric.

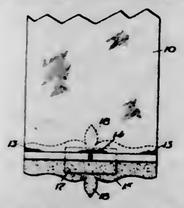
1,945,105
PUMP CONTROL DEVICE
Fred Lee Badgett, Chickasha, Okla., assignor to Badgett Steam Lubricator Company, Chickasha, Okla., a corporation of Oklahoma
Application June 8, 1931. Serial No. 542,845
2 Claims. (Cl. 103—19)

1. In a device for controlling the supply of water from a pump to a boiler connected by steam and water lines, a valve in the steam line, a stem having its inner end secured to the valve, a housing, a flexible diaphragm in said housing, a supporting bar rigidly connecting the valve and housing, a branch line communicating said steam line with one face of the diaphragm, a conduit communicating the opposite face of the diaphragm with the water line, means operably connecting said diaphragm with the valve stem to actuate the valve in response to variations in pressure on opposite faces of the diaphragm including a lever arm, means for yieldingly anchoring said lever arm to the bar, and resilient means adjustably anchored to the outer



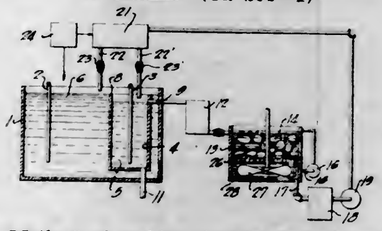
end of said valve stem for normally urging the valve from its seat.

1,945,106
WINDOW SHADE REPAIR MEANS
Evaline Blackwell, Los Angeles, Calif.
Application August 2, 1933. Serial No. 683,306
4 Claims. (Cl. 156—10)



1. A window shade repair means consisting of a member folded along its middle longitudinal line, with its opposite sides folded around the lower end and weight stick of a window shade, said member being provided with an adhesive for adherence to said window shade, and its side edges ornamentally designed as to contour to rest flatwise against the opposite sides of said window shade, substantially as described.

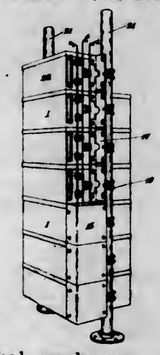
1,945,107
METHOD OF MAKING DUCTILE ELECTROLYTIC IRON
John R. Cain, Washington, D. C., assignor of one-half to Frederic A. Eustis, Milton, Mass.
Application May 27, 1931. Serial No. 540,344
11 Claims. (Cl. 204—1)



1. Method of making ductile electrolytic iron, comprising as steps subjecting a solution of a ferrous salt to electrolysis between a pair of electrodes, while maintaining the solution surrounding the anode separate from the solution

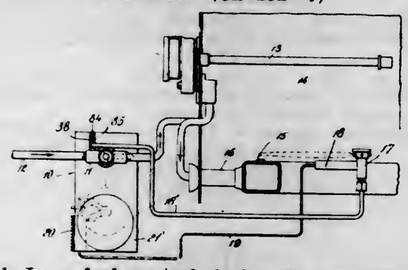
surrounding the cathode by a porous wall, and controlling the hydrogen ion concentration of the solution surrounding the cathode to a pH value between 1.0 and 3.0.

1,945,108
POWER FACTOR CONDENSER
William Dubilier, New Rochelle, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a corporation of Delaware
Application November 16, 1929
Serial No. 407,587
11 Claims. (Cl. 175—41)



1. An electrical condenser comprising a casing, condenser sections within the casing, said casing having an extending portion for enclosing the terminals of the condenser, and an opening in the extending portion for connection to an external circuit, said extending portion also comprising mounting means for the condenser.

1,945,109
AUTOMATIC FUEL CONTROL DEVICE
Edward L. Fonseca, Newark, N. J., assignor to The Wilcolator Company, Newark, N. J., a corporation of Delaware
Application April 5, 1929. Serial No. 352,735
9 Claims. (Cl. 161—7)



1. In a fuel control device, the combination of a main burner, a pilot burner, a main valve controlling the supply of fuel to said main burner, a pilot valve controlling the supply of fuel to said pilot burner, mechanism for operating said main valve, and connections between said mechanism and said pilot valve for operating the latter.

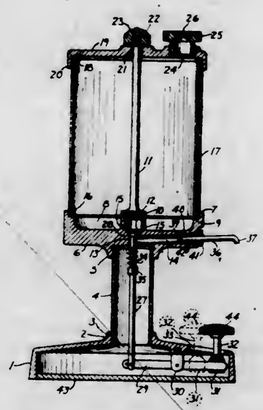
1,945,110
EAR PROTECTOR
Abraham Gordon, Chicago, Ill.
Application December 7, 1931. Serial No. 579,627
1 Claim. (Cl. 2—209)

An article of the character described comprising a band terminating in enlarged portions, the enlarged portions being slitted, with the adjacent portions of the slit lapped and secured together to form such enlarged portions in approximate



cone shape, the lapped portions forming a pocket, and a securing strip for the article with its terminals secured in said pockets.

1,945,111
NURSERY SOAP DISPENSER
Newton S. Hillyard, St. Joseph, Mo.
Application February 15, 1932. Serial No. 593,020
5 Claims. (Cl. 221—94)

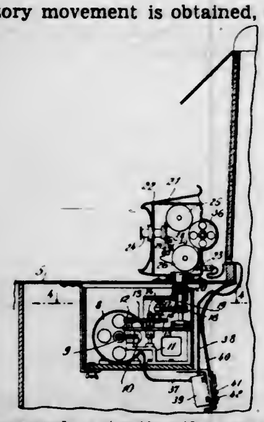


1. A nursery soap dispenser comprising a hollow base, a soap container supported above said base, a discharge passageway extending radially in the bottom of said container, a port in the bottom of said container for admitting soap to said discharge passageway, a valve for controlling the passage of soap through said port, a lever pivotally mounted in said base and connected at one end to said valve for operating the same, a sleeve slidably mounted on the opposite end of said lever, and means carried by said sleeve and extending upwardly through said base for operating said lever, said means also securing said sleeve on said lever.

1,945,112
PHOTOGRAPHIC EQUIPMENT
George Francis Hogan, Chicago, Ill.
Application February 7, 1931. Serial No. 514,130
6 Claims. (Cl. 88—16)

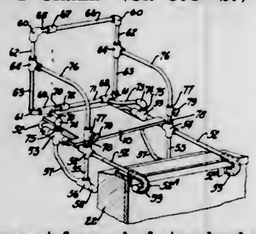
1. In a device of the character described, the combination of a base member, a support thereon, a motion picture camera mounted on the support, means for turning the support and camera in one direction, means for automatically reversing the turning means after a predetermined movement in the one direction where-

by oscillatory movement is obtained, and means



for simultaneously actuating the camera and the turning means to provide a photographic record.

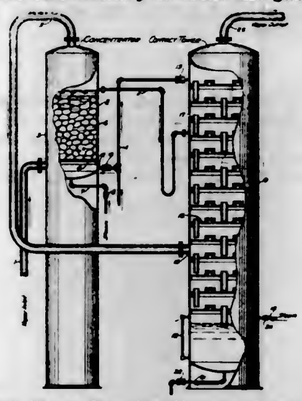
1,945,113
WINDOW SEAT
Frank Kloboučnik, Chicago, Ill.
Application July 27, 1933. Serial No. 682,395
1 Claim. (Cl. 304—27)



A window seat formed of standard pipe fittings and comprising in combination, a single continuous seat-supporting pipe having a pair of intermediate portions bent substantially right-angularly and the ends of said pipe being bent hook-like, a pair of cross-fittings mounted on said seat-supporting pipe between each of said right-angularly bent portions and the hook-like ends, a pair of pipes extending from the lower ends of said cross-fittings into a common T-fitting to form wall braces for said seat-suporting pipe, a substantially rectangular back-rest formed of pipe-fittings and supported on a pair of said cross-fittings, the two horizontal members of said back-rest being formed of a pair of pipes and a coupling member to permit uncoupling of same to afford the collapsing of the device, and a pair of side guards each comprising an L-shaped pipe having one end connected to a vertical member of said back-rest and the other end thereof removably connected to one of said cross-fittings.

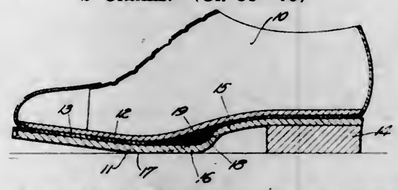
1,945,114
METHOD FOR REFINING HYDROCARBON OILS
Arthur Lachman, Berkeley, Calif., assignor to Vapor Treating Processes Inc., Los Angeles, Calif., a corporation of California
Application February 23, 1932. Serial No. 594,477
13 Claims. (Cl. 196—36)

5. In the process of treating gasoline vapors at elevated temperatures with metallic salt solution of optimum concentrations, the method of effecting desirable heat economies which comprises utilizing a temperature reducing solution of metallic salt initially to treat the gasoline va-



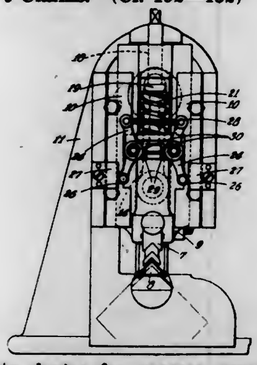
pors, and thereafter treating said vapors with the solution at the concentration obtained by said first step.

1,945,115
OUTSOLE FOR SHOES
Alfred G. Legge, Brockton, Mass.
Application August 25, 1932. Serial No. 630,394
2 Claims. (Cl. 36—76)



2. An outsole for shoes, a portion of the shank of which is formed with a cavity to provide a projection extending from the tread portion to an intermediate point on the shank, the edges of said projection being spaced from the edges of said outsole, and a filler for said cavity.

1,945,116
SAFETY DEVICE FOR PRESSES AND THE LIKE
William Leslie Macfie, London, England, assignor to Andrew & Suter Limited, London, England, a British Company
Application August 6, 1930, Serial No. 473,505, and in Great Britain June 20, 1930
6 Claims. (Cl. 192—132)



1. A safety device for presses, punching chines, box staying machines or the like, com

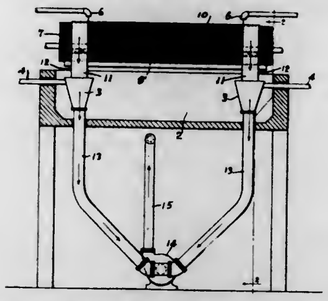
ing a stationary pressure-member, a movable pressure-member for cooperation with said stationary pressure member, a slide carrying said movable pressure-member, an actuating member mounted for reciprocation in said slide, a key in said slide, a lever mounted on said key and movable with said slide, a guiding surface for engagement by said lever, a spring attached to the end of said lever, and means for reciprocating said actuating member, said guiding surface being disposed and shaped so as to permit the spring to rotate said lever, said lever being adapted to rotate said key about its longitudinal axis into the path of the actuating member to couple the actuating member to said slide so as positively to drive the movable pressure member, only when the movable pressure-member is within a predetermined distance of the stationary member.

1,945,117
SAFETY RAZOR
Oscar F. Mann, Indianapolis, Ind.
Application December 3, 1931. Serial No. 578,756
4 Claims. (Cl. 30—12)



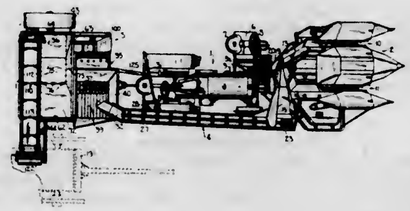
2. A safety razor including a frame and a razor blade secured in the frame, the frame having guard fingers projecting beyond the blade, an annular flat-top bearing cap yieldingly mounted on the back of the frame, a screw fixedly secured to the frame and extending through the cap, and a handle disposed at an acute angle to the frame having a frusto-conical end constituting a continuous inclined face directly turning on the screw and shiftably bearing on the cap.

1,945,118
PAPER MACHINE AND METHOD OF HANDLING THE TRIM FROM THE PAPER MACHINE WIRE
Hector McVicker and Edwin F. Bearce, Chillicothe, Ohio, assignors to The Chillicothe Paper Company, Chillicothe, Ohio, a corporation of Ohio
Application March 13, 1933. Serial No. 660,536
14 Claims. (Cl. 92—39)



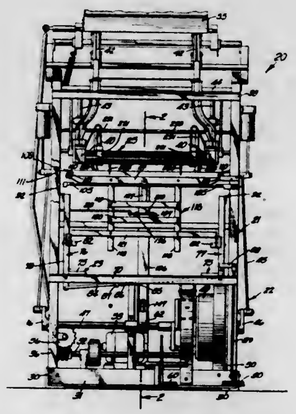
1. In a method of manufacturing paper, severing a marginal strip from a paper sheet while on the wire, conveying the severed strip as a trim an additional distance with the wire, removing the trim from the wire, mixing it with white water and returning the mixture to the system after the Jordan engines.

1,945,119
CORN PICKER
Edgar E. Metcalf, Moville, Iowa, assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 12, 1931. Serial No. 568,218
18 Claims. (Cl. 56—18)



1. An agricultural machine comprising, in combination, a tractor having a power take-off, a corn picker including snapping mechanism propelled by the tractor and mounted forwardly thereof, a grain tank connected to the rear of the tractor and propelled thereby, said grain tank including a corn receiving hopper, and conveyor means associated with the grain tank and arranged to optionally discharge corn received from the corn picker into the hopper or to discharge corn from the hopper.

1,945,120
CRATE MAKING MACHINE
Hale Paxton, Redlands, Calif., assignor to Paxton Credit Corporation, Sanger, Calif., a corporation of California
Application May 24, 1932. Serial No. 613,223
20 Claims. (Cl. 1—14)



1. In a crate making machine the combination of: nailing table means to support the work on either of two levels; means to drive nails downwardly into said work while so supported; and means to feed said work beneath said nailing means between successive nailing operations to space the nails, one sequence of spacings being automatically produced with the work on one level and another sequence of spacings being automatically produced with the work on the other level.

1,945,121
PROCESS FOR REFINING PETROLEUM OIL
Walter L. Savell, Forest Hills, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application October 5, 1932 Serial No. 636,331
5 Claims. (Cl. 196—42)

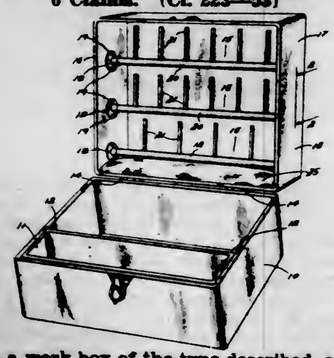
1. In refining petroleum oils, the improvement which comprises subjecting the oil to the action of substantially dry calcium hypochlorite containing upwards of 50% available chlorine at a sub-cracking temperature.

1,945,122
FOOTWEAR
William N. Sechler, Evanston, and Samuel Goodman, Chicago, Ill., assignors to The Florsheim Shoe Company, Chicago, Ill., a corporation of Illinois
Application September 14, 1931 Serial No. 562,622
16 Claims. (Cl. 36—76)



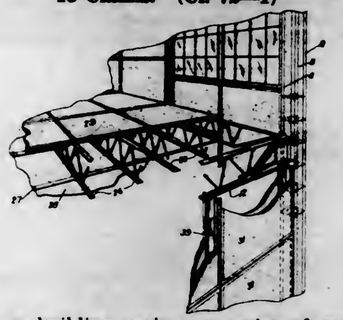
1. A support of the character described comprising in combination, a channel-shaped shank member adapted to extend along the shank of a shoe with the bottom of the channel down, said bottom being cut away at its forward end to leave the sides of the channel projecting forwardly beyond its bottom, a front support section of channel shape arranged with the bottom of its channel up and having flanges projecting laterally from the sides of the channel but terminating short of the rear end of said section to leave the middle portion of the section projecting rearwardly, the adjacent ends of said shank channel and said middle portion being shaped so that the latter will fit inside the former, said shank and front section being interfitted with said middle portion lying inside and above said shank channel and the projecting sides of the latter lying above flanges of the front section, whereby said shank and front section may flex upwardly but are limited in downward flexure.

1,945,123
UTILITY SEWING BOX
Oscar M. Stiegler, Los Angeles, Calif.
Application January 2, 1931. Serial No. 506,253
6 Claims. (Cl. 223—53)



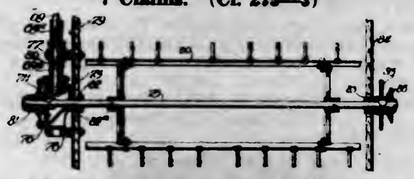
1. In a work box of the type described, a cover, a spool rack, means pivotally supporting said rack in said cover, said means comprising supporting members disposed on opposite sides of the cover and in which the free ends of the rack reside, and means preventing pivotal movement of said rack in said supporting members, said last named means comprising a slot in one of the free ends of the rack, a key in the side of the cover adapted to coact with the slot, and a spring confined by one of the supporting members, the cover and the other free end of the rack.

1,945,124
UNIT BUILDING CONSTRUCTION
Joseph B. Strauss, San Francisco, Calif.
Application May 4, 1932. Serial No. 609,144
15 Claims. (Cl. 72—1)



1. In a building system, a series of separate composition wall units having metal edges, a recessed portion in the edges, interlocking elements interposed between said edges and having protruding portions fitting into the recessed portions of said edges.

1,945,125
MANURE SPREADER
Starley S. Swanson and Leonard B. Neighbour, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Original application August 12, 1931, Serial No. 556,498. Divided and this application July 11, 1932. Serial No. 621,928
7 Claims. (Cl. 275—3)



1. A fertilizer distributor having side walls comprising, in combination, a rotating beater shaft, bearings supporting said shaft, a member supporting one of said bearings, the other of said bearings being supported by a side wall of the distributor, and means for supporting said member for rocking movement about an axis perpendicular to said shaft.

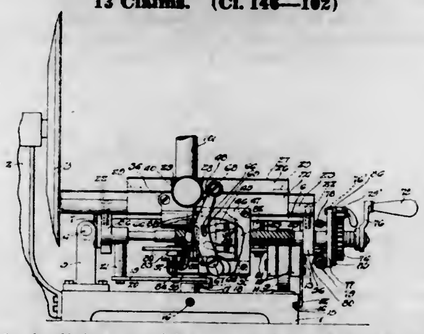
1,945,126
CONTAINER FOR HYPODERMIC SOLUTIONS AND OTHER MEDICINAL PREPARATIONS
Everett Gifford Upjohn, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich.
Application April 11, 1932. Serial No. 604,413
4 Claims. (Cl. 215—12)

1. A container for medicinal preparations comprising a receptacle for said preparations, a stopper therefor, a holder for said receptacle formed from a single piece of thin sheet metal and having a flat base, a knurled periphery, external screw threads pressed therein above the knurling and an annular flange having struck-up spring tongues adapted to receive and hold said receptacle, a tubular casing of sheet metal having an externally knurled wall with one closed end and screw threads pressed in the other end and



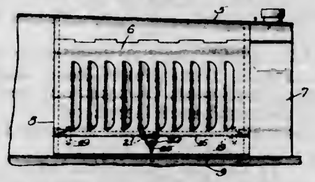
adapted to engage said first mentioned screw threads, and an absorbent pad carrying antiseptic in the closed end of said casing and adapted to press against said stopper when the receptacle is in said holder and said casing and said holder are in engagement.

1,945,127
FEEDING MECHANISM FOR SLICING MACHINES
Wilhelmus Adrianus van Berkel, Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application May 17, 1930, Serial No. 453,142, and in Great Britain December 3, 1929
13 Claims. (Cl. 146—102)



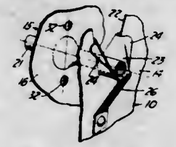
1. A slicing machine comprising a guide rod, a bearing member slidable along said guide rod, a feed plate releasably secured to said bearing member comprising releasable interconnecting means between said bearing member and said feed plate, an operating member for actuating said releasable interconnecting means, a brake for retarding movement of said bearing member along said guide rod, and an operating member for releasing said brake, said operating members being arranged in a position closely adjacent each other so that both may be grasped simultaneously by the hand of the operator to draw the members relatively toward each other to actuate the operating member for the brake, the operating pressure necessary to actuate the member for releasing the interconnecting means being in a direction other than the direction in which the members are moved relative to each other to release said brake, whereby the operating member for the brake is actuated when said members are drawn toward each other without actuating said operating member for the releasable interconnecting means.

1,945,128
HOOD ATTACHMENT AND LOCK FOR AUTOMOBILES
Earl G. Watrous, Chicago, Ill.
Application January 14, 1931. Serial No. 508,670
7 Claims. (Cl. 70—29)



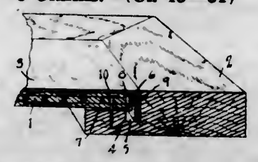
1. In an attachment of the character set forth, for fastening the movable portions of an automobile hood to the frame, the combination of a bar arranged longitudinally within the hood and adapted to co-operate with catches on the frame, keepers for movably supporting the bar in the hood, a rotatable member mounted in the hood and adapted to be actuated from the outer side thereof, a pin and slot connection between the rotatable member and the bar for actuating the bar and a lock for locking the rotatable member against rotation.

1,945,129
COFFEE ROASTER
Paul R. A. Wessel, Burlingame, Calif.
Application July 22, 1933. Serial No. 681,748
3 Claims. (Cl. 34—5)



1. In a coffee roaster, a heat concentrator adapted to be disposed above a source of heat, a drum for containing coffee to be roasted, and means including journals carried by said concentrator for supporting said drum for axial rotation, said drum having vents for the discharge of vapor and silver skin upon said journals to lubricate the same and being otherwise substantially imperforate.

1,945,130
TABLE TOP STRUCTURE
John W. Beiger, Ludington, Mich., assignor to The Carrom Company, Ludington, Mich.
Application January 3, 1933. Serial No. 649,923
6 Claims. (Cl. 45—31)



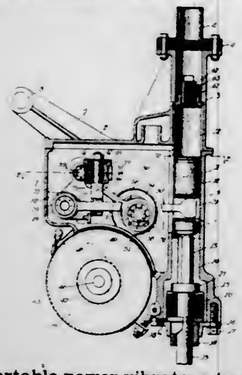
1. In a table top structure, a table top frame having a rabbeted groove to receive the top panel, a table top panel having its edges disposed in said groove and spaced from said frame to form a groove recess between the edges of the panel and the frame, an extension of said groove recess formed in said frame, a spring metallic member having an attaching web disposed between said panel and said frame and a portion bent and recurved to form a clamping face in said groove recess and extension, means securing

said panel to said frame passing through and securing said web, and a flexible top covering over said top panel and rolled and clamped and glued between said clamping face and said frame.

1,945,131
PRODUCTION OF ACETONE FROM ETHYL ALCOHOL
Grover Bloomfield, Lloyd C. Swallen, and Francis M. Crawford, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application January 9, 1930 Serial No. 419,737
8 Claims. (Cl. 260—134)

1. A process for the production of acetone which comprises subjecting to the action of catalysts comprising essentially oxygen compounds of the metals of the first long period of the periodic table, at temperatures from 250° C. to 650° C., a gaseous mixture in which ethyl alcohol vapor is the only reactant present in substantial concentration and in which the pressure of said alcohol vapor is substantially lower than atmospheric.

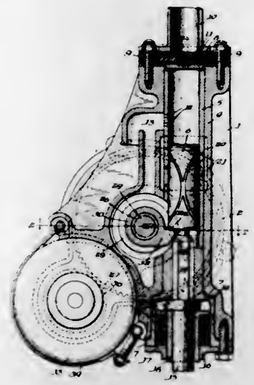
1,945,132
TAMPING TOOL
Hugh S. Brown, Harvey, Ill.
Application January 9, 1931. Serial No. 507,648
7 Claims. (Cl. 125—33)



3. In a portable power vibratory tool, a portable casing having a cylinder therein hermetically sealed at one end and ported to the atmosphere adjacent its other end, a piston hammer reciprocable in said cylinder, and means carried by said casing having a lost motion connection and engaging said piston hammer for intermittently raising said piston hammer and throwing it freely into the closed end of said cylinder to cause the hammer to compress the entrapped air in the closed end of the cylinder to a working pressure to force said piston hammer out of said closed cylinder end in a working direction, said cylinder being opened to the atmosphere during the final portion of the working movement of said piston hammer by the movement of the hammer entirely into the ported end of the cylinder to permit it to move freely and without restriction in its working direction.

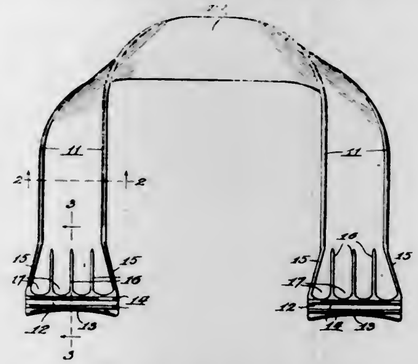
1,945,133
TAMPING TOOL
Hugh S. Brown, Harvey, Ill.
Application December 7, 1931. Serial No. 579,398
13 Claims. (Cl. 125—33)

9. In a portable power vibratory tool, a portable casing having a cylinder therein hermetically sealed at one end and ported to the atmosphere at a point removed from said end, a piston hammer reciprocable in said cylinder, and means carried by said casing for intermittently raising said piston hammer to cause said hammer to



compress the entrapped air in one end of said cylinder to a working pressure to force said piston hammer in working direction, the ports in said cylinder being above the piston when the latter is at its uppermost position in contact with said raising means.

1,945,134
ELASTIC EXERCISING DEVICE
John H. Brunk, Los Angeles, Calif.
Application February 15, 1933. Serial No. 656,850
5 Claims. (Cl. 272—79)



1. An exercising device, comprising a strap of elastic material, transversely disposed hand holds formed integral with the ends of said strap and disposed wholly above one of the side faces of said strap and individual finger tip receiving pockets formed on the inner faces of said hand holds.

1,945,135
WINDOW
Elizabeth P. Carl, Chicago, Ill.
Application August 3, 1931. Serial No. 554,782
6 Claims. (Cl. 20—43)

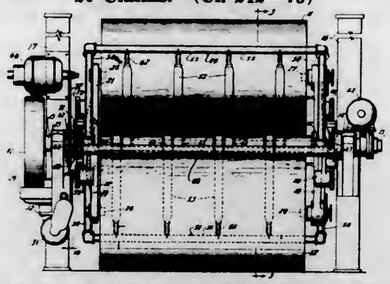
1. A sliding and swinging window having means for counter-balancing the same for the

sliding movement and auxiliary coacting means



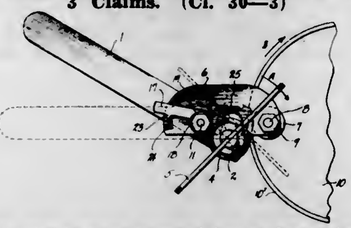
for counter-balancing the same for the swinging movement.

1,945,136
WEB TENSION MECHANISM FOR PRINTING PRESSES
Allan J. Cline, Chicago, Ill.
Application August 7, 1930. Serial No. 473,543
20 Claims. (Cl. 242—75)



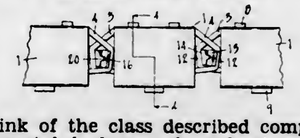
1. In a web supply mechanism for printing presses the combination of a rotatable support for a running roll and a spare roll whereby said rolls may be revolved about the axis of the support, and strap tension mechanism for controlling the travel of the web from the roll into the press, said mechanism being supported upon and movable with the roll supporting means and including means for causing the tension to be released from one of said rolls when applied to the other.

1,945,137
CAN OPENER
Martin Dahl, Seattle, Wash.
Application February 23, 1932. Serial No. 594,453
3 Claims. (Cl. 30—3)



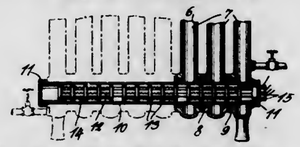
1. A can opener comprising a hand lever, a shaft extended revolubly through the lever at one end, a clamping plate having a pivot bolt attaching it to the lever at a distance spaced within the point of mounting the said shaft, and having its free end adapted to extend beyond the end of said lever, a knurled feed roller on said shaft, a cutting disc fixed on the shaft coaxial of and closely adjacent the feed roller, a clamping roll on the swinging end of the clamp plate arranged to coact with the feed roll to grip against opposite sides of a can end flange, means for rotating the shaft to advance the device along the can seam when clamped thereon, said clamping plate mounting bolt having an eccentric journal mounting the said plate and said bolt having means whereby it may be rotatably adjusted to thereby effect adjustment of the plate.

1,945,138
LINK BELT
James K. Diamond, Grand Rapids, Mich., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich., a corporation of Michigan
Application January 29, 1931. Serial No. 511,999
2 Claims. (Cl. 74—64)



1. A link of the class described comprising a pair of metal body members having coupling loops at the ends thereof, rivets securing the body members together in direct back-to-back contact, the coupling loops at one end only being spaced, and rubber facing blocks individually disposed on the sides of said body members and depending below the main part thereof, each of said body members having a pair of substantially spaced integral lugs on its upper edge and a central downwardly offset integral lug on its lower edge in clamping engagement with said facing blocks, the upper lugs each terminating in an inturned spur engaging its facing block, and one of said rivets connecting said downwardly offset lower lugs.

1,945,139
AUTOMATIC ELECTRIC HOT WATER HEATING SYSTEM
Edmond H. du Chemin, Denver, Colo.
Application October 27, 1930. Serial No. 491,435
1 Claim. (Cl. 219—38)



An electric radiator of the hot water type comprising a plurality of separate radiator sections provided near their lower ends with oppositely extending tubular projections, the projection on one side having an internal rabbet and the one on the other side having an external rabbet, whereby a cylindrical flange is formed that fits into the internal rabbet, the end sections of each radiator assembly having their end surfaces provided with openings that are concentric with the openings in the tubular projections, but of smaller diameter, a pipe extending through all of the sections in the assembly, the diameter of the pipe being substantially the same as that of the openings in the end surfaces of the end sections, the

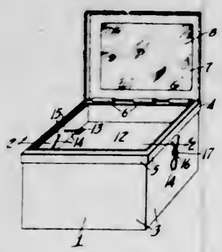
ends of the pipe being provided with threads and caps, or the like, secured to the threaded ends of the pipe and engaging the end walls of the end sections to produce a force for holding the sections in assembled relation, the interior of the pipe serving as a chamber for the reception of an electric heater.

1,945,140
SURGICAL ELECTRODE
John P. Farnham and Calvin C. Bishop, Buffalo, N. Y.
Application January 16, 1931. Serial No. 509,106
4 Claims. (Cl. 174—89)



1. A surgical electrode, including a body made of insulating material and having an approximately flat face for use in depressing the tongue, terminating in a portion extending laterally thereto and in a direction approximately parallel to said face, a metallic reinforcing member embedded and fully surrounded by the insulating material and extending lengthwise through said body and into said laterally extending portion, a metal tip extending out of said laterally extending portion and connected with said reinforcing part to receive electric current therefrom, and an abutment at one edge of said laterally extending part for holding the pillar muscle out of the way of said tip.

1,945,141
RECEPTACLE
Roger R. Fenska, South Bend, Ind.
Application December 17, 1931
Serial No. 581,685
2 Claims. (Cl. 217—64)

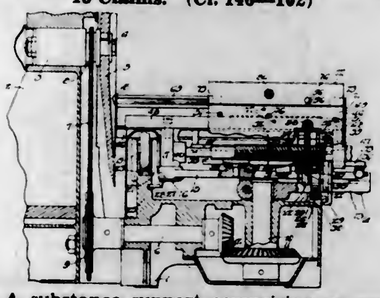


1. The combination with a receptacle for packaging goods, opposite side walls of said receptacle having apertures formed therein adjacent the upper edges thereof, of a false bottom for said receptacle, cords secured at their ends to the opposite edges of said false bottom and extending to and through said apertures with their intermediate portions extending between said apertures, and a disc fixedly carried by the receptacle at opposite outer sides thereof about which said cords may be adjustably looped for anchoring the cords against downward pull to hold said false bottom in adjustable horizontal position in said receptacle.

1,945,142
METHOD FOR THE ELECTROLYTIC PRODUCTION OF EMBOSSING FOILS, OF GOLD OR OTHER METAL OR OF DIFFERENT METALS
Julius Fichtmueller, Stapleton, N. Y.
No Drawing. Application May 13, 1932, Serial No. 611,229, and in Germany January 15, 1931
1 Claim. (Cl. 91—68)

A method for producing an embossing foil of gold or other metals, consisting in electrolytically depositing the metal on a highly polished metal supporting band, in applying in liquid state a film of backing substance, such as gelatine, shellac, on to the deposited metal on the band, allowing said film to dry, stripping said film with said deposited metal from said band, applying on to the highly polished side of the pulled off leaf, which has been in contact with the metal supporting band, a film of cellulose in liquid state, and in partly dissolving and removing the pull off film consisting of backing substance so that only a thin backing remains.

1,945,143
SUBSTANCE SUPPORTING TABLE FOR SLICING MACHINES
Joseph Folk, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application July 28, 1930. Serial No. 471,135
13 Claims. (Cl. 146—102)



1. A substance support comprising an undertable, a feed plate adapted to slide along said undertable, a movable friction plate carried by said feed plate, a fixed guide on said undertable adapted to engage said friction plate, a feed screw on said undertable, a guide rod on said undertable, a member guided by said guide rod and secured to said feed plate, a spring actuated nut adapted to be normally moved into engagement with said feed screw and carried by said member, a rod adapted to slide longitudinally and move said nut out of engagement with said feed screw, a rod adapted to actuate said friction plate and a cam member for operating said rods.

1,945,144
PORTABLE NAIL STRIPPER
Elroy C. Follett and Albert W. Heater, Newberg, Oreg.
Application March 29, 1932. Serial No. 601,802
10 Claims. (Cl. 1—49.7)

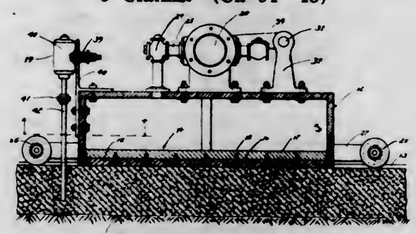
1. A nail stripping device provided with a pivotal base, a holder pivotally mounted upon said base at a point to one side of the center of mass of said holder, said holder provided with a slot extending thru the bottom portion at the end of the holder adjacent the pivotal connection of said holder with said base, said slot being of such width as to pass the point and shank of a nail

but to retain the head thereof and resilient means overlying the end of said slot to resist the passage of nails out of the end of said slot, whereby



said resilient means exercises a retarding agency to the withdrawal of nails and tends to induce a tipping force to said holder to spill nails from said holder over said slot.

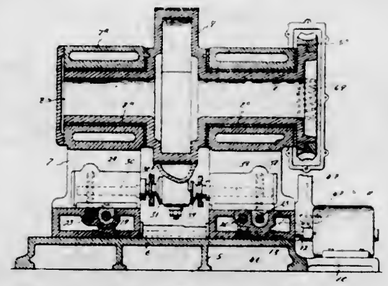
1,945,145
METHOD OF AND APPARATUS FOR COMPACTING AND DEWATERING CEMENTITIOUS MIXTURES
Graham M. Gordon, Los Angeles, Calif., assignor to Viber Company, Limited, Los Angeles, Calif., a corporation
Application April 4, 1932. Serial No. 603,015
9 Claims. (Cl. 94—48)



1. A method of forming a concrete roadway which comprises pouring a plastic concrete mass upon a prepared roadway base, covering a portion of said plastic mass with a chambered member, placing vibratory mechanisms in the contiguous mass, vibrating the mass to compact the same and release excess water, exhausting the air from said chamber, and extracting a portion of the water from said mass.

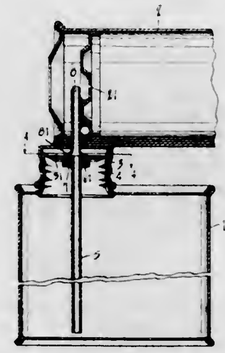
1,945,146
MILLING MACHINE
Emmanuel J. Fournier, Detroit, Mich., assignor to Production Engineering Company, Detroit, Mich., a corporation of Michigan
Application October 22, 1928. Serial No. 314,041
7 Claims. (Cl. 90—20)

1. In a milling machine of the drum type, a base, a pair of standards carried by the base and each having spaced supporting legs, a work-carrying drum journaled in the standards, cutter members supported by the base adjacent the drum between the spaced legs of the standards, a motor, means for driving the drum thereby, means connecting the motor to each cutter member to enable driving the same thereby, and including a pair of substantially coaxially disposed shafts carried by the base to one of which each cutter is geared and each having an end projecting from the base, another power transmitting shaft projecting from the base adjacent each projecting extremity of the first mentioned coaxial shafts, and pick-off gearing arranged between each such pair of projecting shaft ends,



whereby the relative speed at which each cutter is driven by the motor through such gears may be changed at will by substitution of gears of varient dimensions.

1,945,147
SPRAY GUN
Claude C. Hopkins, Fruitport, Mich., assignor to Rex Research Corporation, Toledo, Ohio
Application April 29, 1932. Serial No. 608,187
3 Claims. (Cl. 299—88)



1. The combination of a cylinder piston spray gun having a discharge aperture and a detachable receptacle in cooperative relation, a screw-threaded nozzle on the receptacle, with an inwardly-projecting flange at the top, a corresponding screw-threaded cap on the spray gun, a flanged plug with depressed recess at the center and an outwardly-projecting flange having vent perforations within the flange, secured by solder to said nozzle flange, a spray tube made up of separable upper and lower sections the lower section of the spray tube being centrally disposed and secured in said plug, and extended at its lower end toward the bottom of the receptacle and a gasket in the recess at the center of said plug, the upper section of said spray tube being secured to the discharge end of the gun, having its lower end extending within the said screw cap and expanded into a flange and adapted to contact with the said gasket to close the joint between the upper and lower sections of said spray tube.

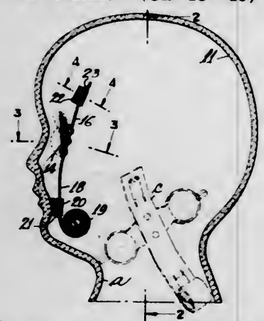
1,945,148
PACKAGE AND METHOD OF PREPARING THE SAME
William A. Hughes, Morristown, N. J., assignor to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application December 24, 1930 Serial No. 504,631
5 Claims. (Cl. 99—8)

1. The method of preserving the pyrethrum content of chrysanthemum flowers which comprises providing the flowers with a protective coating of kerosene after picking, said liquid being provided in an amount and extent to separate the pyrethrin from the atmosphere.

1,945,149
CEMENT COMPOSITION
Loven Lasher, Denver, Colo.
No Drawing. Application March 28, 1931, Serial No. 526,133. Renewed August 7, 1933
1 Claim. (Cl. 87—17)

The herein described composition comprising silicate of soda, rosin, gum arabic, litharge, glycerine and water.

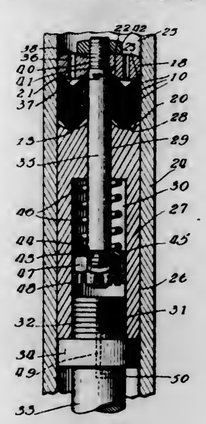
1,945,150
EYE MECHANISM FOR DOLLS
William Lorenz, New York, and Lazarus W. Pollack, Brooklyn, N. Y.
Application July 29, 1932. Serial No. 625,844
4 Claims. (Cl. 46—40)



1. A doll's eye construction comprising a pair of hemispherical eye members with a connecting bridge and with bearing members made from a single piece of sheet stock, said bearing members being formed from notched lugs projecting from the eye members and formed into tubular bearings in alignment with the axis of the hemispherical eyes and merged into the hemispherical eye members.

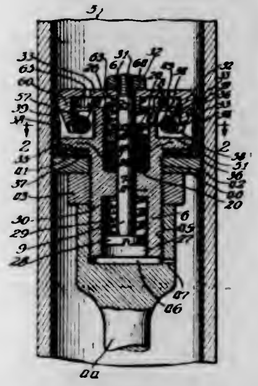
1,945,151
PISTON
Charles W. Marsh, Muskegon, Mich.
Original application June 1, 1931, Serial No. 541,301. Divided and this application June 6, 1932. Serial No. 615,633
9 Claims. (Cl. 309—34)

1. A hydraulic ram piston comprising a cylindrical body having a bore passing through the same, and having an annular concavely formed packing seat, a plunger mounted in said bore, a plurality of layers of substantially V-shaped leather packings about the end of said plunger, and adapted to engage the wall of a cylinder in which said piston is mounted, said packings having the apex of one end packing in initial engagement with the packing seat, and an expander carried by the end of said plunger and having a convex annular surface engaging the inside of



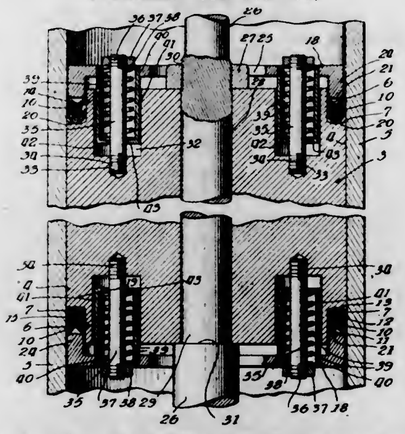
the flanges of the other end packing adjacent its edges, the expansion of said packings being increased responsive to increase of fluid pressure on the piston plunger.

1,945,152
PISTON
Charles W. Marsh, Muskegon, Mich.
Original application June 1, 1931, Serial No. 541,301. Divided and this application June 6, 1932. Serial No. 615,634
7 Claims. (Cl. 309—34)



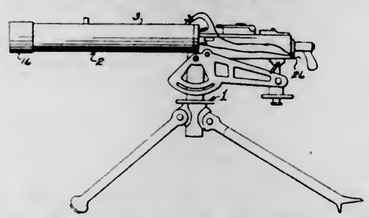
1. A piston comprising a piston body, a cup-shaped leather packing having a radial flange clamped on said body and having a cylindrical flange engaging the wall of a cylinder, a plurality of segmental members engaging the inside of said latter flange, an expander mounted to expand said segmental members and having a plunger passing through said piston whereby increase of fluid pressure on said plunger increases the expanding action of said expander, a spring carried by said plunger for maintaining an initial pressure on said packing, said piston having a counterbore about said plunger, a plurality of V-shaped leather packings in said counterbore about said plunger, and a spring tensioned between said latter packings and said expander.

1,945,153
PISTON
Charles W. Marsh, Muskegon, Mich.
Original application June 1, 1931, Serial No. 541,301. Divided and this application June 6, 1932. Serial No. 615,635
6 Claims. (Cl. 309—34)



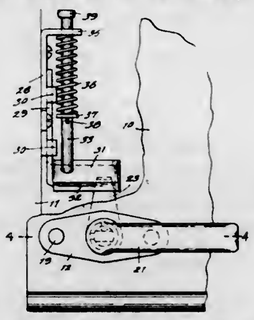
1. A piston comprising a body having a substantially cylindrical outer surface, one end of said body being reduced in size and formed with an annular shoulder, said shoulder being concavely formed to provide a seating surface, with a plurality of layers of substantially V-shaped leather packings about said reduced end, and having the apex of the end packing engaging said concave surface, an expander, comprising an annular member having a convex annular surface for initially engaging the inside of the flanges of the end V packing, said annular member being movably mounted to be actuated by increased fluid pressure on the end of the piston, to expand all of said V-shaped packings, and a plurality of studs fixedly mounted on said piston and slidably engaged by said expander.

1,945,154
ATTACHMENT FOR MACHINE GUNS
Lewie W. McPherson, Carrollton, Ga.
Application July 26, 1932. Serial No. 624,794
1 Claim. (Cl. 240—2)



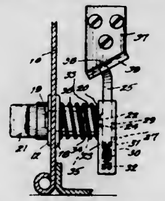
A light attachment for an automatic gun having a cooling jacket surrounding the barrel of said gun comprising a tubular housing, a bracket securing the housing to the cooling jacket of the gun, a second bracket carried by the housing and having a slot to receive the muzzle of the gun for adjusting the housing relative to the barrel of the gun, an electric light mounted in the housing, light projecting means in said housing, and a switch actuated by the firing medium of the gun and electrically connected to the light and to an electrical source.

1,945,155
HOOD CATCH
Raymond G. Moore, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application April 14, 1931. Serial No. 529,948
3 Claims. (Cl. 292—340)



1. In a hood catch keeper for engagement by a handle actuated catch means, a vertically reciprocating slide, spring means adapted to press said slide downwardly, and cam means carried by said slide inclined upwardly and inwardly with respect to the inner surface of the hood, and adapted in the engaged relation of the catch means to be pressed upwardly against the pressure of said spring means whereby the hood is drawn downwardly and inwardly.

1,945,156
HOOD CATCH
Raymond G. Moore, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application April 14, 1931. Serial No. 529,949
4 Claims. (Cl. 292—202)

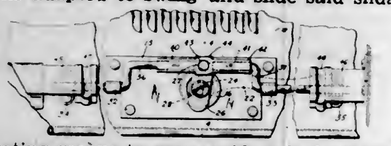


4. In a hood catch for engaging a fixed keeper, a handle disposed exteriorly of the hood, a resilient catch member carried by and having movement relatively to said handle extending radially to the axis of rotation of said handle and adapted to be actuated by movement of said handle into and out of engagement with said keeper to draw the hood downwardly.

1,945,157
HOOD CATCH
Raymond G. Moore, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application December 18, 1931
Serial No. 581,804
8 Claims. ((Cl. 292—48)

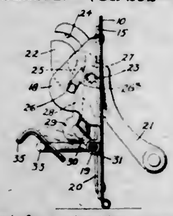
1. In a hood fastener structure for engaging a plurality of spaced keeper elements, independently movable structurally separate rock-shaft means for engaging said respective keeper elements under tension, operating crank means slid-

able longitudinally of said rock shaft means, and means adapted to swing and slide said slidable



operating means to move said rock shaft means into and out of operative position.

1,945,158
HOOD CATCH
Raymond G. Moore, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application December 18, 1931
Serial No. 581,805
13 Claims. (Cl. 292—214)



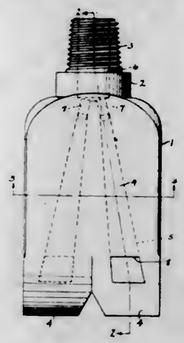
13. A hood catch operating mechanism for engaging catch means under tension with a keeper element, an operating handle, a movable member adapted to be moved by said handle and to move said catch means into and out of operative position, cam means separate from said handle for guiding the movement of said movable member and means adapted to yieldably retain said movable member under tension in operative position, and said movable member adapted to yieldably retain said handle in relation to the hood.

1,945,159
DRILL
William L. Pearce, Houston, Tex.
Application June 30, 1932. Serial No. 620,158
3 Claims. (Cl. 255—61)



1. A drill whose lower end is formed with oppositely directed cutting blades, said drill having water courses leading downwardly therethrough and terminating at the forward sides of said blades, the lower ends of said water courses having inwardly declining lips, at their forward sides whereby said ends are restricted, said lips forming deflectors which throw the solid material outwardly from said lower ends, said blades having arcuate grooves in their forward faces continuing on down from said restricted ends of said water courses.

1,945,160
DRILL
William L. Pearce, Houston, Tex.
Application February 13, 1933. Serial No. 656,599
4 Claims. (Cl. 255—61)



1. A drill comprising a body whose upper end is formed for attachment to a drill stem and whose lower end has oppositely directed cutting blades, said drill having longitudinal passageways which terminate on the forward faces of the blades and are downwardly flared throughout their length.

1,945,161
TIE BRACKET
Louis C. Piazza, Western Springs, Ill., assignor to Soundex Corporation, Chicago, Ill., a corporation of Illinois
Continuation of application Serial No. 448,466, April 30, 1930. This application October 26, 1931. Serial No. 571,047
6 Claims. (Cl. 72—103)



6. Means for uniting inner and outer wall members of a single wall, said means comprising a flanged metal bracket having a horizontal portion and a vertically extending portion, said horizontal portion extending forward of the flanges thereof to provide means adjacent the free end thereof adapted to be inserted into a wall member with said flanges in abutting engagement with said member, said vertically extending portion adapted to be secured to the opposite wall member to secure the members together.

CARNEGIE LIBRARY OF ATLANTA

1,945,162
GUITAR SUPPORT
Peter Rasmussen, Fresno, Calif.
Application November 23, 1931
Serial No. 576,793
12 Claims. (Cl. 84—327)

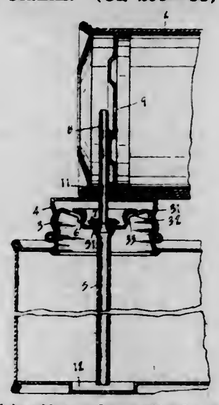


1. A support for stringed musical instruments comprising a flexible strap provided with means near its opposite extremities for detachably securing the strap to the periphery of an instrument body, and a foldable rest secured to said strap for engagement with a portion of the body of a player to hold the body of the instrument at a playing angle.

1,945,163
PROCESS FOR RECOVERING THE SULPHUR CONTENT OF GASES
Ludwig Rosenstein, San Francisco, and Gustav A. Kramer, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 9, 1932
Serial No. 610,306
9 Claims. (Cl. 23—181)

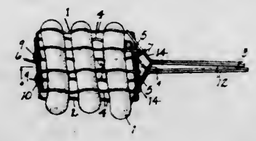
1. A process of recovering hydrogen sulphide from gaseous mixtures, comprising: contacting said gaseous mixtures with an aqueous solution containing K_3PO_4 and evolving substantially pure hydrogen sulphide from said solution in substantial amounts.

1,945,164
SPRAY GUN
Walter E. Ruth, Toledo, Ohio, assignor to Rex Research Corporation, Toledo, Ohio
Application April 29, 1932. Serial No. 608,182
4 Claims. (Cl. 299—88)



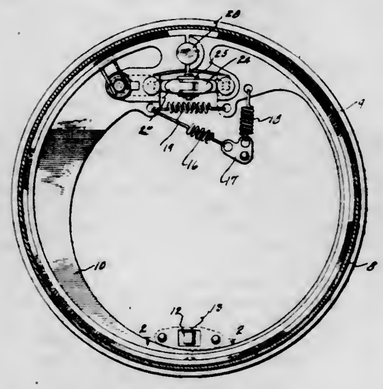
4. The combination of a cylinder piston spray gun having a discharge aperture and a detachable receptacle, a screw threaded nozzle on the receptacle having a top flange with a central aperture and radial slots extending therefrom, whereby the sides of the aperture are yielding, and a correspondingly screw threaded cap on the spray gun secured onto said nozzle with a detachable joint, a flanged plug having an expanded bottom inserted and secured in said aperture, and a divided spray tube, the upper end section carried by the gun and with its top end positioned opposite the discharge aperture of the gun, the lower section part of the tube being secured to said plug and fitted by cone and cup joint to the lower end of the upper section of the tube.

1,945,165
ROASTER
Benjamin H. Smith, Niles, Mich., assignor to Michigan Wire Goods Company, Niles, Mich.
Application May 27, 1933. Serial No. 673,181
9 Claims. (Cl. 53—5)



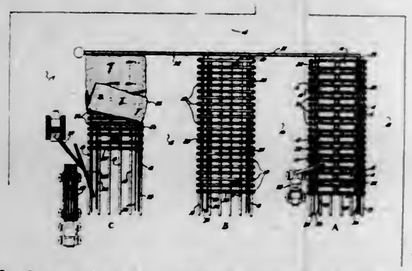
4. The combination in a roaster, of a pair of coacting holder members each comprising a plurality of spaced longitudinal bars and end cross pieces fixedly secured thereto, a pivotal connection for the outer ends of said holder members, and handles for said holder members, the longitudinal bars of said holder members being longitudinal corrugated with their corrugations disposed oppositely and coacting to provide a plurality of spaced holder pockets.

1,945,166
BRAKE MECHANISM
John Sneed, Detroit, Mich., assignor to Steeldraulic Brake Corporation, Detroit, Mich., a corporation of Michigan
Application August 6, 1925. Serial No. 48,470
26 Claims. (Cl. 188—78)



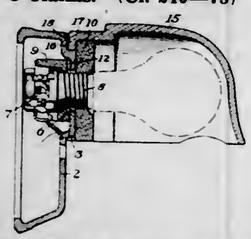
1. In combination with the frame and a wheel of a vehicle, a brake drum carried by the wheel, an integral brake shoe arranged within the drum and formed with a rigid portion and a flexible portion arranged so that the flexible portion will first engage the brake drum and then transmit movement to the rigid portion, and means for moving the flexible portion into and out of braking position.

1,945,167
ART OF CASTING PILING
Ewald D. Steinhagen, Wauwatosa, Wis., assignor to S. M. Siesel Co., Milwaukee, Wis., a corporation of Wisconsin
Application January 15, 1932. Serial No. 586,731
5 Claims. (Cl. 25—1)



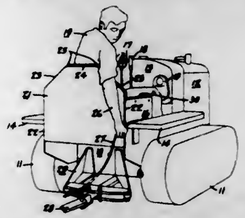
2. Apparatus for casting circular piling horizontally, comprising a group of parallel, spaced, horizontal molds having upper filling openings, and a temporary receptacle for cementitious material accessible from laterally of the group of molds for filling and removably positioned between a pair of adjacent molds and simultaneously registering with the filling openings of both of the laterally adjacent molds to facilitate simultaneous introduction of cementitious material into both of the molds.

1,945,168
LIGHTING FIXTURE
Hyman Tauber, Greensburg, Pa., assignor to Porcelier Manufacturing Company, Greensburg, Pa., a corporation of Pennsylvania
Application March 24, 1931. Serial No. 524,796
3 Claims. (Cl. 240—73)



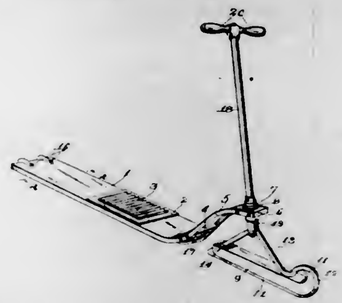
1. A lighting fixture comprising a non-metallic base member having a non-circular raised portion on the front face thereof, a lamp socket unit within the base having an interiorly and exteriorly threaded socket portion which projects through an opening in the raised portion of the base member, a washer screwed on to the outer end of said socket portion, and a hood-like shade having a back portion, the back portion having a rearwardly extending projection, said projection having a downwardly opening slot therein, the marginal portions of the extension around the slot providing flanges, the rearwardly extending projection on the shade extending over the washer, the flanges around the slot being received in the space between the washer and the base member, the slot in the rearwardly extending projection of the shade accommodating the raised portion of the base, the raised portion of the base and the slot in the shade cooperating to hold the shade against rotation about the axis of the socket, the shade being removable from the base by movement thereof vertically with respect to the base.

1,945,169
TRACTOR
Gerald M. Walker, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application April 24, 1933. Serial No. 667,525
8 Claims. (Cl. 180—77)



1. In a tractor adapted for use in pulling a drawn vehicle having means thereon to be controlled from the tractor by the tractor operator, a body portion, an operator's compartment on said body portion, including a dash closing the front of said compartment, fenders closing the sides of said compartment, a seat closing the rear of said compartment, and tractor controls in said compartment, said seat having a back, the top of said back being of less width than said seat whereby the operator can turn in said seat without interference from said back.

1,945,170
SNOW SCOOTER
Frank A. Wetzel, Wauwatosa, Wis.
Application January 26, 1931. Serial No. 511,316
1 Claim. (Cl. 280—23)

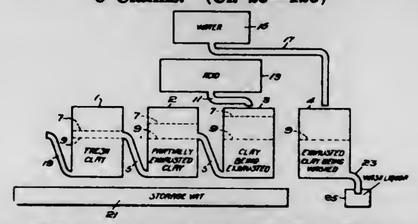


A snow scooter comprising a pair of spaced parallel longitudinally extending runner irons, an elongated relatively wide runner board having flat upper and lower faces carried by the upper edges of the runner irons and extending the full length thereof, the runner irons being adapted to engage hard surfaces and the lower face of the runner board being adapted to engage soft surfaces, the forward end of the runner board and the forward ends of the runner irons being turned upwardly, forwardly and upwardly projecting spaced frame bars carried by the front end of the runner board, a steering runner of less width than the first mentioned runner rotatably carried by the frame bars, and means for turning said steering runner the upper curved end of the runner board terminating short of the front ends of the spaced frame bars, whereby to leave an opening above the runner board for the passage of snow and thereby prevent crowding and packing of snow in front of said runner board.

1,945,171
MANUFACTURE OF ALUMINUM SULPHATE
William S. Wilson, Roslindale, Mass., assignor to Merrimac Chemical Co. Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application February 17, 1930
Serial No. 429,209
9 Claims. (Cl. 23—123)

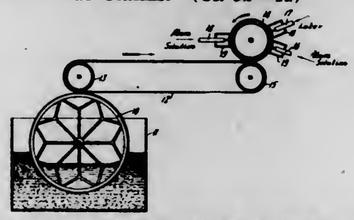
1. The herein described method of making aluminum sulphate which consists in reacting sludge acid with bauxite, evaporating sufficient water to form a solid product at ordinary temperatures containing less than 17.3% Al_2O_3, flaking the evaporated product and subjecting the flaked material to a dehydrating and roasting rotary kiln treatment.

1,945,172
UTILIZATION OF SLUDGE ACID
William S. Wilson, Boston, Mass., assignor to Merrimac Chemical Company, Inc., Boston, Mass., a corporation of Massachusetts
Application March 12, 1930. Serial No. 435,204
8 Claims. (Cl. 23—123)



1. The process of economically utilizing so-called sludge acid which comprises diluting said acid with water to precipitate a fraction of the dissolved organic matter constituting a fuel oil; and allowing the residual diluted liquor to act upon calcined clay to form an alum liquor and to cause the residual clay to collect organic matter from the liquor.

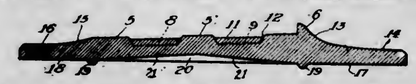
1,945,173
ARTIFICIAL LEATHER MANUFACTURE
Frank O. Woodruff, Newton, Mass., assignor, by mesne assignments, to Beckwith Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application July 27, 1932. Serial No. 625,032
13 Claims. (Cl. 92—41)



1. As an article of manufacture, a multi-ply sheet of fibers containing rubber latex coagulated not only in its plies but also in between its individual plies as a film serving to integrate the plies, said film being substantially continuous with the latex coagulated in the plies.

1,945,174
TIE PLATE
Edwin H. Bell, Chicago, Ill.
Application January 15, 1932. Serial No. 586,743
7 Claims. (Cl. 238—298)

1. A tie plate provided on its top with a rail bearing surface, a transversely extending rail abutting shoulder, end surfaces in a plane below the plane of the rail bearing surface, and curved fillets connecting one end surface with the rail abutting shoulder and the other end surface with one edge of the rail bearing surface, said plate having flat bottom surfaces, carrying depending



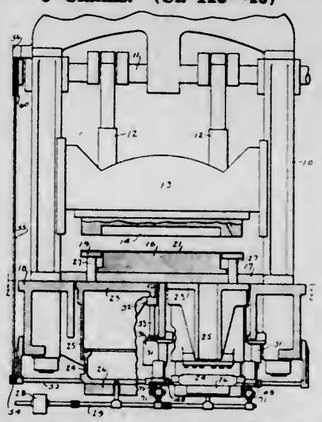
ribs, said bottom surfaces extending inwardly from the ends of the plate to points located inwardly of the edges of the rail seat, and surfaces inclined longitudinally of the plate, extending upwardly from said bottom end surfaces toward the middle of the plate.

1,945,175
PURIFICATION OF SUCCINIC ACID
Johann A. Bertsch and Arthur H. Krause, St. Louis, Mo., assignors, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application May 2, 1930
Serial No. 449,347
8 Claims. (Cl. 260—122)

1. In the manufacture of a member of the group of compounds consisting of succinic acid and its salts, the steps which consist in hydrogenating the corresponding unsaturated composition, interrupting the hydrogenation before the reaction has proceeded to completion, decomposing the unreacted, unsaturated, organic composition by means of an oxidizing agent that is inert to the hydrogenated product and subsequently isolating the product.

3. In the manufacture of a member of a group of compounds consisting of succinic acid and its salts by a hydrogenation process applied to the corresponding maleic acid compound, the steps which consist in treating a solution of the crude hydrogenated composition which contains some of the unreacted raw material with a water soluble permanganate, filtering and thereafter crystallizing the product from the filtrate.

1,945,176
PRESS
Arthur A. Byerlein, Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio, a corporation of Delaware
Application February 1, 1932. Serial No. 590,058
6 Claims. (Cl. 113—46)



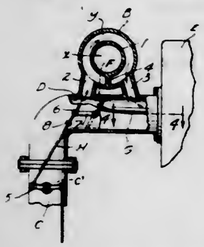
1. In a press of the character described, a pressure plate, an air cushion below said pressure plate yieldingly resisting the movement of said

plate in one direction, and a hydraulic lock independent of said air cushion for temporarily holding said plate against return movement during a predetermined part of a cycle of operation and comprising piston and cylinder elements relatively movable one with respect to the other, a mechanical connection from one of said elements to said plate, the connection being arranged to one side of said air cushion, a liquid supply connection from said hydraulic lock, a valve controlling the flow of liquid through said liquid supply connection, and means operated in timed relation to the press movements for operating said valve at predetermined times in a cycle of press operations.

1,945,177
CONTINUOUS PROCESS FOR PRODUCING ESTERS
Thomas S. Carswell, Kirkwood, and Ernest T. Stehlby and Nicolaas J. G. Aleserij, St. Louis, Mo., assignors, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
Application September 17, 1928
Serial No. 306,505
10 Claims. (Cl. 260—104)

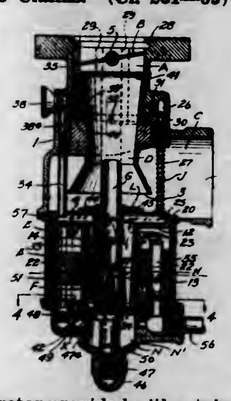
1. A process for producing esters of the class described, characterized by boiling a mixture containing: an organic carboxylic acid which is substantially non-volatile below 120° C., an aliphatic alcohol whose boiling point is below 100° C., water, and the ester of said acid and said alcohol; adding water to the boiling mixture so as to effect the removal from the mixture of the ester produced by the reaction while more ester is formed simultaneously, and adding to the mixture amounts of the said alcohol and acid which are chemically equivalent to the ester and alcohol removed from the mixture.

1,945,178
HEATING APPARATUS FOR INTERNAL COMBUSTION ENGINES
William C. Carter, Flint, Mich.
Application May 20, 1929. Serial No. 364,541
3 Claims. (Cl. 123—122)



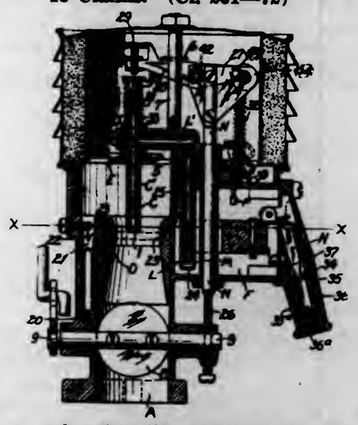
1. An apparatus for heating the mixture being supplied to an internal combustion engine, comprising a heating device that is maintained at a high temperature, a control valve that is adapted to be set in one position so as to cause the mixture from the carburetor to absorb heat from said device and then enter the intake of the engine and set in a different position so as to cause the mixture to pass directly to said intake, means for opening said control valve when the throttle valve of the carburetor is moved into its wide open position, and a temperature governed means for said control valve arranged to move the same independently of and relatively to the throttle valve.

1,945,179
CARBURETOR
William C. Carter, Flint, Mich.
Application December 23, 1929
Serial No. 415,995
8 Claims. (Cl. 261—55)



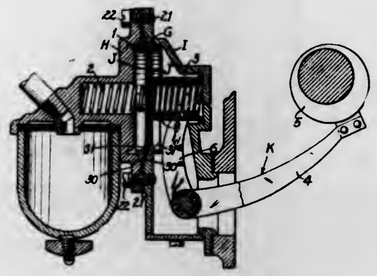
1. A carburetor provided with a tubular choking member through which air circulates from the main air chamber in the normal operation of the motor, a manually operable means for enabling the circulation of air from said chamber to said choking member to be reduced to facilitate starting the motor, and a choke relief valve arranged concentrically with relation to said choking member, and controlled or governed by the internal suction of said choking member, for automatically re-establishing the circulation of air to said choking member when the motor starts firing, even though the operator has not released said manually operable means.

1,945,180
CARBURETOR
William C. Carter, Flint, Mich.
Application October 30, 1931. Serial No. 572,106
15 Claims. (Cl. 261—72)



1. In a carburetor, the combination of a normally open main passageway, a suction amplifier in said passageway, and an air admission valve adapted to be moved against said amplifier to choke the engine, said amplifier being so mounted that the suction in the intake when the engine starts firing will automatically move said amplifier away from said valve for the purpose described.

1,945,181
DIAPHRAGM PUMP
William C. Carter, Flint, Mich.
Original application February 23, 1928, Serial No. 256,720. Divided and this application February 18, 1933. Serial No. 657,357
1 Claim. (Cl. 103—150)



A fuel pump provided with a housing structure, a non-metallic, flexible diaphragm arranged so as to form one wall of a pumping chamber, into and out of which fuel is drawn and discharged by the movement of the diaphragm, clamping members on the housing structure that embrace the peripheral portion of the diaphragm, reciprocating members engaging the central portion of the diaphragm and arranged in direct sliding contact with the housing structure, and reversely-curved surfaces on said housing structure and on said reciprocating members, located at opposite sides of the diaphragm, for the purpose described.

1,945,182
PURIFICATION OF CRUDE COUMARIN
Erik Clemmensen, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application September 2, 1930
Serial No. 479,425
9 Claims. (Cl. 260—54)

1. The step in the purification of crude coumarin which comprises causing the coumarin to react with an inorganic sulfite reagent whereby the coumarin is rendered non-volatile, steam distilling the mixture and finally regenerating the coumarin.

1,945,183
MANUFACTURE OF ALKOXY DERIVATIVES OF PHOSPHOROUS ACID CHLORIDES
Erik Clemmensen, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application December 24, 1931
Serial No. 583,141
3 Claims. (Cl. 260—98)

1. The method which consists in reacting under reduced pressure a molar proportion of a material having the following structural formula

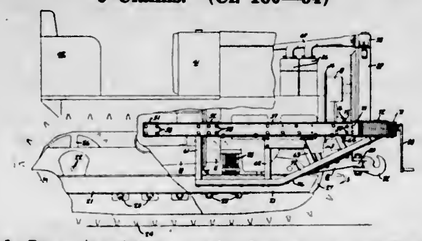


where X represents a sulfur atom, with less than three molar proportions of an alcohol selected from a group consisting of the following: methyl, ethyl, propyl and butyl.

1,945,184
PURIFICATION OF CRUDE COUMARIN
Erik Clemmensen, East Orange, N. J., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 10, 1933, Serial No. 679,761, and in Great Britain August 11, 1931
3 Claims. (Cl. 260—54)

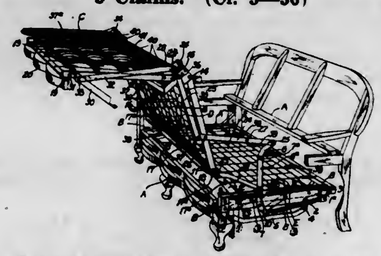
1. In the purification of crude coumarin containing organic impurities, the steps which include forming an aqueous solution of a sulphite addition product of coumarin, extracting the water solution with a solvent for the impurities associated with the coumarin in the aqueous solution, which solvent is immiscible with the aqueous solution, and subsequently regenerating the coumarin.

1,945,185
TRACTOR ATTACHMENT
Harmon S. Eberhard, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application March 23, 1933. Serial No. 662,317
6 Claims. (Cl. 180—54)



1. In a tractor, a main frame, comprising a transmission case, a crankcase, a timing gear housing, and a radiator tank secured together; opposite pads on the sides of said transmission case, opposite pads on the sides of said tank, said pads being formed to receive securing means; an auxiliary frame, comprising opposite side members extending along said main frame and engaging said pads, and longitudinally spaced, U-shaped cross members connecting said side members; means for securing said side members to said pads, a bumper secured to the front ends of said side members extending across said main frame and spaced in front of said radiator, and a guard secured to said cross members for protecting said crankcase.

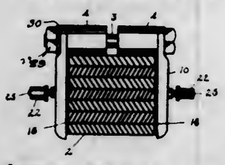
1,945,186
FOLDING COUCH OR DAVENPORT
William E. Frank, St. Louis, Mo., assignor to Foster Bros. Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application August 29, 1932. Serial No. 630,781
5 Claims. (Cl. 5—36)



1. A folding couch or davenport provided with a mattress supporting structure that comprises a

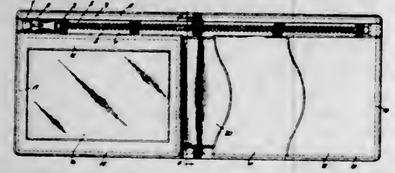
movable bottom section or rear section, relatively deep stationary supporting plates, operating levers for raising and lowering said bottom section, pivotally mounted on said supporting plates and arranged in sliding relationship with one side of said plates, and strap pieces rigidly attached to said levers and arranged in sliding relationship with the other side of said plates, whereby said levers are effectively held against side swaying in either direction.

1,945,187
LEAF SPRING LUBRICATOR
Stephen H. Gallagher, Utica, N. Y.
Application May 19, 1931. Serial No. 538,517
5 Claims. (Cl. 184—1)



1. In a leaf spring lubricator, members adapted to be clamped to a leaf spring, other members held adjacent to said spring and having chambers for holding grease, said chambers having open parts located adjacent to said spring, said second named members being pivotally mounted on said first named members and inlet valve members mounted in said second named members, whereby to allow for supplying grease to said chambers.

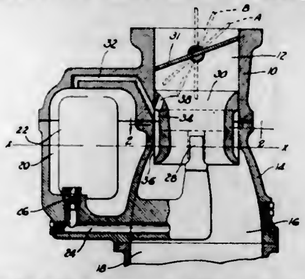
1,945,188
BILLFOLD
Prince A. Gardner, Jr., St. Louis, Mo.
Application May 11, 1932. Serial No. 610,602
7 Claims. (Cl. 150—38)



1. In a billfold having an elongated wall, two longitudinally spaced walls having their outer ends and lower longitudinal edges connected to the outer ends and lower longitudinal edge of said elongated wall, and a wall element having sliding contact with said longitudinally spaced walls extending across the space between and cooperating with said longitudinally spaced walls and with said elongated wall to form an elongated pocket; a longitudinal series of fasteners attached to the upper edge of said elongated wall, and a longitudinal series of fasteners attached to the upper edges of said longitudinally spaced walls and extending across the space between them and being unattached to any part of the billfold between said longitudinally spaced walls and being engageable with and disengageable from said first series of fasteners.

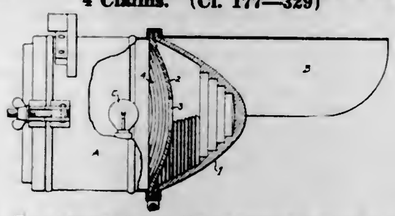
1,945,189
CARBURETOR
Willard B. Goodman, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 23, 1931
Serial No. 576,899
4 Claims. (Cl. 261—72)

1. In a carburetor having a fuel reservoir, an air passage, and a throttle, venturi, and main nozzle within the air passage; a conduit for gas pressure communicating with the fuel reservoir above the liquid level thereof, communicating with the air passage below the point of discharge of the



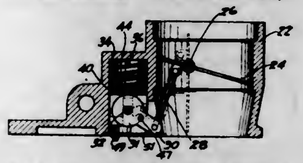
main nozzle and communicating with the venturi passage through a port formed in the venturi immediately anterior to the throttle in such relation that the edge of the throttle will sweep over it in close proximity.

1,945,190
LENS FOR SIGNAL LAMPS
Alexander H. Handlan, St. Louis, Mo.
Application June 28, 1926. Serial No. 118,931
4 Claims. (Cl. 177—329)



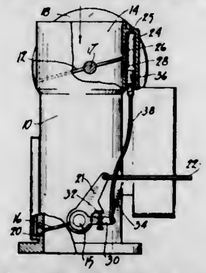
1. In a signal lamp the combination of a light unit, an inner lens which receives rays of light from said light unit, said inner lens having diffusing ribs adapted to spread light rays issuing from said light unit in a horizontal plane and being provided with a central, unribbed portion through which rays of light pass in an undiffused condition, and an outer lens provided with a central beam-producing portion, which serves to project light rays passing through said central portion of said inner lens as a beam, and a rim portion having ribs arranged substantially concentric with the central beam-producing portion which diffuse the light rays falling on said ribs in a plane substantially normal to the ribs

1,945,191
CARBURETOR
Scott F. Hunt, South Bend, Ind., assignor to Bendix Stromberg Carburetor Company, South Bend, Ind., a corporation of Illinois
Application May 4, 1931. Serial No. 534,795
38 Claims. (Cl. 123—124)



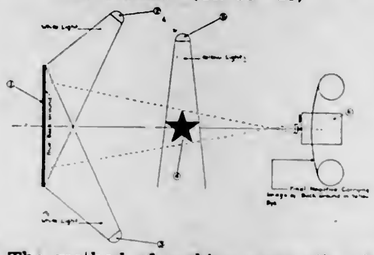
1. A carburetor choke comprising, an air actuated valve, resilient means for closing the valve, vacuum controlled means for modifying the effect of the closing means, and additional means for varying the effect of the control in accordance with the valve position.

1,945,192
CARBURETOR
Scott F. Hunt, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 25, 1933. Serial No. 653,521
6 Claims. (Cl. 123—119)



1. In control mechanism for an internal combustion engine carburetor having a choke valve and a throttle, a thermostat tensioned to control the degree of opening of the choke valve to regulate the richness of the mixture produced by the carburetor as a function of engine temperature, and means controlled by the throttle for by-passing the choke valve when the throttle is in closed position to provide a leaner mixture than the thermostat is set to produce for idling the engine.

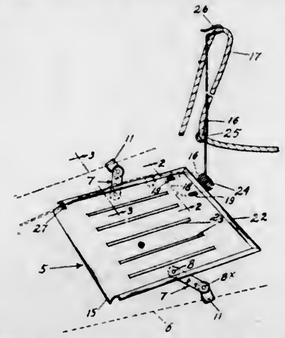
1,945,193
COMPOSITE PICTURE
Fred W. Jackman, Beverly Hills, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware
Application May 4, 1931. Serial No. 535,062
4 Claims. (Cl. 88—16)



1. The method of making composite pictures in a single exposure which comprises impregnating a film having an actinic coating with an impression in a selected color of one component and exposing said film to another component before a ground, said impression and the illumination of said other component being substantially the same color and substantially complementary to the color of said ground.

1,945,194
SADIRON BASE AND CORD SUPPORT
William A. Jones, Los Angeles, Calif., assignor to Henry A. Hayungs, Los Angeles, Calif.
Application December 24, 1932
Serial No. 648,764
6 Claims. (Cl. 68—27)

1. A sadiron support and cord holder comprising a base member, and a resilient wire attached to said base member to assume an upstanding position during use, said wire having a foot portion which is attached to the base, a coiled portion above said foot portion, said coiled portion being continued to form a portion which extends upwardly during use, and said upwardly extending portion being provided with cord holding



means, said base being provided with a holding element located in spaced relation to the coil of the wire in order to releasibly hold said wire in a recumbent position with relation to said base.

1,945,195
METHOD OF AND APPARATUS FOR MAKING CABLE GRIPS
Edgar E. Kellems, New York, N. Y.
Application July 24, 1930. Serial No. 470,309
4 Claims. (Cl. 140—92.1)

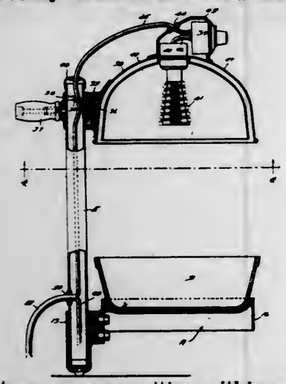


1. The herein described method of making tapered woven-strand tubes, consisting in interweaving the strands spirally around and upon the periphery of a tapered mandrel from the small end toward the larger end of said mandrel leaving the crossing portions of the strands free to move relatively to each other to form a correspondingly tapered open-mesh tube, and then pressing the larger end of the tube toward the smaller end for expanding said tube radially and simultaneously displacing the same endwise from the smaller end of the mandrel.

1,945,196
NUT WARMER
William W. Kelly, Cleveland Heights, Ohio
Application March 23, 1932. Serial No. 600,713
6 Claims. (Cl. 34—21)

1. In a device of the class described, a base, a receptacle supporting member, means carried by said base for rotating said member, a normally fixed agitator extending to a position within a receptacle supported by said member, means

for supporting said agitator, and an auxiliary agitator pivotally connected to said member and



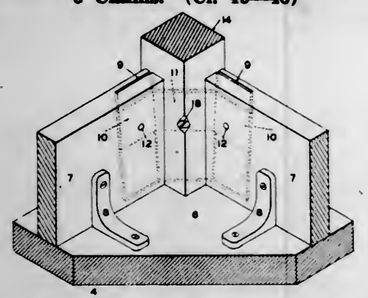
adapted to occupy a position within said receptacle.

1,945,197

FASTENING MEANS FOR FURNITURE

Clarence W. Koch and Fred L. Koch, St. Louis, Mo.

Application June 18, 1932. Serial No. 617,928
3 Claims. (Cl. 45—48)



1. In a device of the class described, the combination of a pair of rails disposed at an angle to each other and having a space between their adjacent ends, said rails having inclined kerfs formed in their ends, a tie plate secured in said kerfs and extending between the ends of the rails and inclined at an angle determined by the position of said kerfs, and a leg positioned in the space between the end of said rails, said leg being provided with a longitudinal kerf inclined at an angle corresponding to the angle of said tie plate and engaging therewith, whereby longitudinal movement of the leg wedges the leg against the ends of the rails.

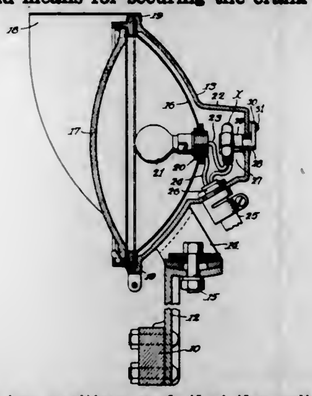
1,945,198

SIGNAL LAMP

Carl H. Larson, Elkhart, Ind., assignor to The Adlake Company, a corporation of Illinois

Application August 11, 1931. Serial No. 556,417
1 Claim. (Cl. 177—329)

In a signal lamp for road gates in combination, a lamp comprising a lamp casing adapted for attachment to a vertically swinging gate and in angularly normal position relative thereto, such casing having a rearward chambered extension, a reflector mounted within the casing, a bulb carried by the reflector, a circuit for the bulb, a mercury switch incorporated into one branch of the circuit, a shaft carrying the switch and extending through the rear wall of the casing extension, a crank arm fixed to the outer end of the shaft, and means for securing the crank arm in



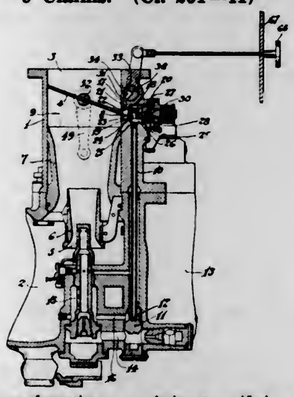
either of two positions such that the switch may be positioned to close the circuit when the gate is in horizontal position and to adapt the lamp for use on gates mounted at either side of a road.

1,945,199

CARBURETOR

Frank C. Mock, Chicago, Ill., and Charles J. Gustafson and Milton E. Chandler, South Bend, Ind., assignors to Bendix Stromberg Carburetor Company, South Bend., Ind., a corporation of Illinois

Application May 22, 1930. Serial No. 454,577
9 Claims. (Cl. 261—41)



1. In a carburetor, a mixture outlet, a throttle valve controlling said outlet, an idling nozzle adjacent said throttle, a priming passageway of a predetermined size above the throttle communicating with said idling nozzle, and a valve for opening and closing said passageway.

1,945,200

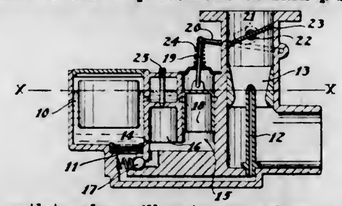
CARBURETOR

Frank C. Mock, East Orange, N. J., assignor to Bendix Stromberg Carburetor Company, South Bend, Ind., a corporation of Illinois

Application September 4, 1930. Serial No. 479,627
3 Claims. (Cl. 261—34)

1. In a carburetor, an accelerating pump comprising a cylinder, a piston in said cylinder, an auxiliary dome chamber communicating with said cylinder, and a pressure actuated outlet valve

controlling the flow of fluid from said cylinder and chamber, said chamber being of such size relative to the displacement of said piston that



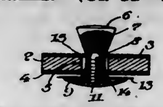
said outlet valve will not open when said chamber is filled with vapor but will open when said chamber is partially filled with liquid fuel.

1,945,201

MEANS FOR SHARPENING RAZOR BLADES

Charles B. Periolat, Chicago, Ill.

Application May 15, 1930. Serial No. 452,617
2 Claims. (Cl. 51—158)



1. A razor sharpening device comprising a sharpening strop having a lengthwise extending guide slot, a blade holder having means including a stud for positioning the blade, said holder constructed for use in shaving, means between the holder and blade for positioning the edges of the blade relative to the strop, a detachable handle slidable on the stud and shiftable in the guide slot and having a thumb engaging portion and co-operating with the blade holder to form gaging means whereby when the holder and handle are held between the thumb and finger, pressure on the blade will be regulated to prevent the digging in of the blade into the strop and also effective to hold the blade on the strop in position to sharpen the blade at right angles to its cutting edge during the shiftable movement of the handle lengthwise of the slot.

1,945,202

REFINED CELLULOSE FIBER

George A. Richter, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine

No Drawing. Continuation of application Serial No. 174,719, March 11, 1927. This application September 17, 1931. Serial No. 563,354
3 Claims. (Cl. 92—3)

1. A bleached, refined, soft and absorbent cellulose pulp in unmercerized condition derived from long raw fibers of the character of hemp, jute, china grass, ramie, manila, and sisal, and having an alpha cellulose content of at least about 93%, said refined pulp consisting essentially of the ultimate fibers and yet being convertible into stable papers having a higher tear resistance than papers prepared from the raw fibers.

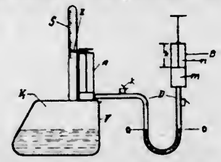
1,945,203

LIQUID LEVEL GAUGE

Rudolf Schiske, Vienna, Austria

Application February 13, 1930, Serial No. 428,220, and in Austria February 24, 1929. Renewed April 18, 1933.
2 Claims. (Cl. 73—54)

1. Apparatus of the class described, comprising a closed liquid containing vessel, an auxiliary vessel connected to the air space of the closed vessel and having means for varying the capacity of said auxiliary vessel, said means including a movable element having a pointer, a scale calibrated in units of volume of liquid in said container and with which said pointer cooperates, a duct having an upright U-bend therein, said duct having one end communicating with said auxiliary vessel adjacent the point of connection with



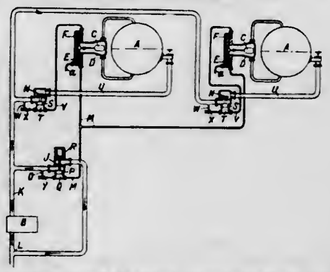
the air space of the closed vessel, a second auxiliary vessel to which the other end of said duct is connected, a liquid in the U-bend of said duct, said duct having a valve disposed therein between the auxiliary vessel and the liquid in the U-bend and also having a valve between said liquid and the second auxiliary vessel, said valves opening to the atmosphere, said second auxiliary vessel also having means to vary the capacity thereof.

1,945,204

BOILER FEED SYSTEM

James Sim, Cathcart, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Glasgow, Scotland, a corporation of Great Britain

Application April 13, 1933, Serial No. 666,045, and in Great Britain June 11, 1932
9 Claims. (Cl. 103—11)



1. A boiler feed system, comprising, in combination with a constant speed reciprocating feed pump, a suction pipe connected to said pump, a discharge pipe connected to said pump and leading to the boiler, a by-pass connection between said pipes, a by-pass valve controlling said by-pass connection, a feed regulating valve fitted to said discharge pipe downstream of said by-pass connection, a float chamber in communication with the boiler, a float in said chamber responsive to changes of water level in said chamber, and a relay device operated by said float, said relay device effecting the successive closing of said feed-regulating valve and opening of said by-pass valve on rising movement of said float and the successive closing of said by-pass valve and opening of said feed regulating valve on falling movement of said float.

1,945,205

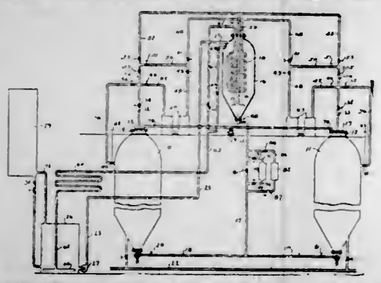
PAPER MANUFACTURE

Lloyd D. Smiley, Dayton, Ohio, assignor, by mesne assignments, to Chemipulp Process, Inc., Watertown, N. Y., a corporation of New York

Application November 15, 1929
Serial No. 407,394
20 Claims. (Cl. 92—7)

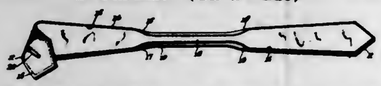
1. Apparatus of the character described, comprising a digester for cooking fibrous material

with cooking liquor under pressure, a pressure accumulator for confining a supply of cooking liquor under super-atmospheric pressure, a gas relief line connecting said digester with said accumulator to permit the hot relief gas to pass



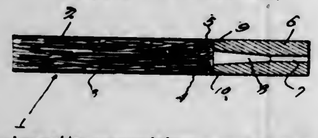
through the cooking liquor within said accumulator to thereby conserve heat and gas, said accumulator being positioned at a higher elevation than said digester, and a gravity feed pipe for introducing the heated and enriched cooking liquor from said accumulator into said digester.

1,945,206
NECKTIE
Mary A. Stephens, New Orleans, La.
Application July 7, 1933. Serial No. 679,415
2 Claims. (Cl. 2—146)



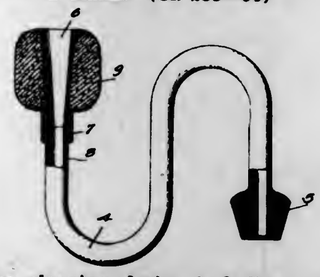
1. The herein-described method for making neckties, which consists in cutting two pieces of face material on the length or width to the similar shape desired, cutting a piece of lining similarly except that the collar band portion is narrower than the collar band portions of the faces, stitching the lining to one of the face pieces all around, stitching the two faces together except at the collar band portions by a row of stitching inwardly of the first stitching and crossing same near the collar band portion, attaching guides to the end portions of the necktie, tucking in the end portions by aid of the guides and drawing such tucked in portions longitudinally of the necktie and out through the unstitched collar band portions to cause reversal of the faces and lining and the bringing of the stitches to the interior, and subsequently stitching the unsecured parts of the collar band portions.

1,945,207
CIGARETTE
Paul G. Thomas, Middlebranch, Ohio
Application May 31, 1933. Serial No. 673,746
2 Claims. (Cl. 131—52)



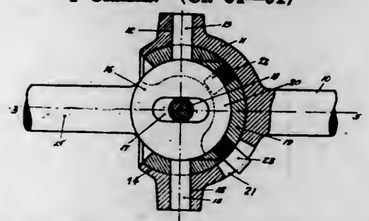
1. A cigarette comprising a paper wrapper and a filler, said wrapper including an inturned flange on one end, a mouth-piece having one end in abutting engagement with the flange, and a ring encircling the adjacent end portions of the cigarette and mouth-piece for coupling said mouthpiece to the cigarette.

1,945,208
PIPE CLEANING DEVICE
Edwin F. Troy, Jacksonville, Fla.
Application May 11, 1931. Serial No. 536,555
1 Claim. (Cl. 285—90)



A pipe cleaning device including a tubular member having at one end a relatively thin readily flexible mouth portion adapted to be engaged with a faucet, and a relatively thick soft rubber pad carried by and surrounding the mouth portion, said soft rubber pad being of a size and shape to conform to and be received in the hand when gripped to flex the mouth portion to tightly engage the same with the faucet.

1,945,209
COMPENSATED UNIVERSAL JOINT
Marcel Villard, Paris, France
Application January 6, 1931, Serial No. 506,988, and in France April 1, 1930
4 Claims. (Cl. 64—91)

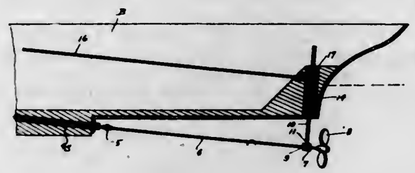


1. A compensated universal joint comprising driven and driving members, a gimbal coupling said members and having pivots the axes of which are disposed at right angles to each other, said gimbal being mounted for movement with respect to one member about both of said pivot axes and being journaled for pivotal movement with respect to the other member about one of said axes, and a gimbal-actuating device slidably and pivotally mounted in one of said members providing an oscillatory movement of said gimbal about the last-named axis once during each revolution of said gimbal, the angular amplitude of which oscillatory movement is one-half the angle defined by the axes of rotation of said driven and driving members.

1,945,210
PROPULSION DEVICE FOR BOATS
Charles E. Ward, Odell, Ill.
Application April 4, 1933. Serial No. 664,420
1 Claim. (Cl. 115—41)

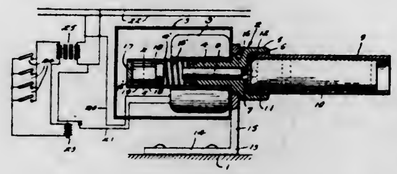
In combination with a boat, a guide block mounted in the stern of the boat, a vertically extending guideway in the block, said block being provided with a recess in the upper end thereof, a shaft journaled through the upper end portion of the block and across the said recess, a gear mounted on the said shaft to turn therewith in

the said recess, a rack member slidably disposed in the said guideway and through the said recess and meshing with the said gear, and a swingably mounted propeller shaft to which the lower end



of the said rack is connected, the said recess, at the upper end of the said block, opening through one side of the block to permit access to the said gear.

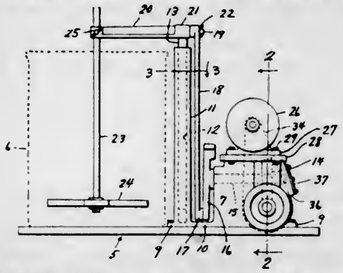
1,945,211
TEAR GAS GUN
Rodney E. Waugh and Lyndel W. Wile, Tonkawa, Okla.
Application October 18, 1932. Serial No. 638,362
3 Claims. (Cl. 42—1)



1. A tear gas gun, comprising a solenoid coil, a metal sleeve within said coil and having one end extending beyond an end of the coil, a tubular body extended into the other end of the sleeve and terminating at its inner end adjacent the center of the coil, the outer end of said tubular body being formed to provide a head having an interiorly threaded recess therein, a tear gas cartridge barrel threadably engaged at one end in said recess, a firing pin reciprocable in said tubular body for firing a cartridge in the barrel, a core member for the coil reciprocable in the sleeve under the influence of the coil when the latter is energized, and spring means in the sleeve between the core and the tubular body for normally urging the core toward the end of the sleeve remote from the coil.

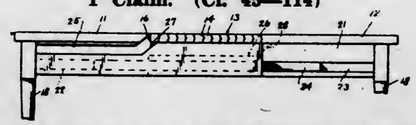
1,945,212
CHURN
Frank B. Akers, Fort Gay, W. Va.
Application April 7, 1932. Serial No. 603,884
1 Claim. (Cl. 259—113)

The herein described agitating means consisting essentially of a support having a lateral base extension and also having on said extension and fixed with respect thereto a vertical, hollow guide standard with a bore of angular cross section, a shaft journaled in said support and having in the space between the support and said standard a crank, a reciprocatory rod of angular cross section disposed in the bore of said standard, a cross arm connected with the upper end portion of said rod and extending at opposite sides thereof, a dasher connected with and pendent from said cross arm, and a pitman movable in said space between the support and the standard and interposed between and connected to the said crank



and the end of the cross arm remote from said dasher.

1,945,213
EXTENSIBLE TABLE
Patrice A. Arsenault, Mexico, Maine
Application November 22, 1932
Serial No. 643,938
1 Claim. (Cl. 45—114)

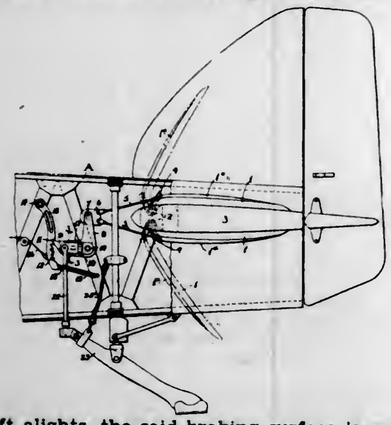


A table of the class described comprising two pairs of legs, a pair of side members, each having its outer end connected to a leg of each pair, each side member having a longitudinally extending slot therein adjacent its upper edge and extending from the leg end of the member an appreciable distance toward the other end of the member, said member having a diagonally arranged slot therein extending from its upper edge to the inner end of the first mentioned slot, a pair of second side members connected to the opposite legs and each having its inner end part reduced, with the upper edge of the reduced part being in horizontal alignment with the lower wall of the longitudinal slot in the first mentioned side member when the two side members are in fully overlapping relation, the junction of the reduced part of the second side member with the other part thereof forming a sloping shoulder which is in alignment with a sloping wall of the notch when the two side members are in said mentioned position, the abutting faces of the two sets of side members having grooves therein, a strip located in the grooves and fastened to one of the side members, a pair of rigid top sections fastened to the upper edges of the outer end parts of the two sets of side members and extending over the legs, a flexible section connected to the inner end of one rigid section and adapted to pass through the notches into the longitudinal slots when the table parts are moved toward each other, said flexible section moving out of the slots and notches upon the wide portions of those side members which have their inner end portions reduced, whereby said flexible section will lie between the rigid sections with the top flush with the tops of said rigid sections.

1,945,214
AIR BRAKE FOR AIRCRAFT
Horace Drummond Black, Uxbridge, England
Application October 16, 1931, Serial No. 569,340, and in Great Britain October 16, 1930
6 Claims. (Cl. 244—29)

1. An air brake for aircraft which comprises in combination at least one braking surface movably

mounted upon the aircraft and normally disposed in an inoperative position at the rear of the aircraft, an operative connection between the said surface and a tail skid carried by the aircraft including a lost motion device, whereby when the tail skid contacts with the ground as the air-



craft alights, the said braking surface is moved automatically to a position substantially transverse to the line of flight of the aircraft, mechanism for locking the braking surface in the said braking position and means for releasing said locking mechanism, for the purpose specified.

1,945,215

REVIVIFICATION OF SPENT CLAYS

Albert E. Buell, Bartlesville, Okla., assignor to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware

Application January 13, 1932. Serial No. 586,395
14 Claims. (Cl. 252—2)

2. The process of reactivating spent clay used for decolorizing and clarifying lubricating oils which comprises agitating the clay with an oil solvent, separating said solvent from the clay, agitating the oil free clay with a mixture of naphtha and an alcoholic solution of sodium hydroxide, and separating the clay from said mixture.

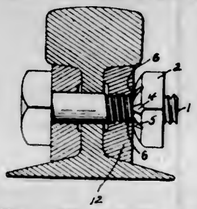
10. A color solvent for use in revivifying spent contact clay comprising naphtha and alcoholic caustic.

1,945,216

NUT LOCK

Charles L. Dunham, Wellsburg, W. Va., assignor of one-half to Berry Pink, New York, N. Y.

Application January 10, 1933. Serial No. 651,038
1 Claim. (Cl. 151—21)



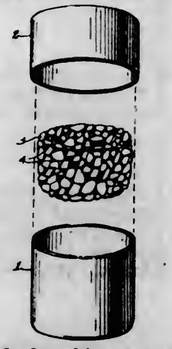
In combination with a bolt having threads, a nut having one face convexed or crowned, said nut being threaded to fit the bolt, and having transverse grooves radiating from its hole to leave a plurality of separated thin thread portions which will bend in or become upset into tight frictional engagement with the threads of the bolt when the nut is screwed home, said grooves being of a depth to take in at least two threads and of a width at the hole to leave narrow chisel-like portions.

1,945,217

TOY TORPEDO OR IMPACT SALUTE

Joseph B. Decker, Elkton, Md., assignor to Gertrude M. Decker, Elkton, Md.

Application February 5, 1932, Serial No. 591,213
Renewed June 21, 1933
10 Claims. (Cl. 102—25)



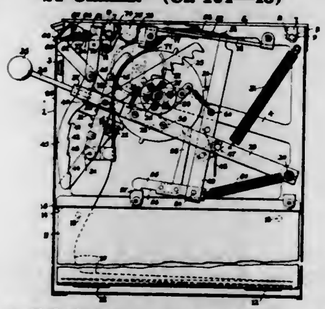
1. The method of making a toy torpedo which consists in forming a container, substantially filling the container with a mass of granular material having the particles thereof cemented to each other and to the walls of the container, and explosive material substantially filling the interstices in said mass.

1,945,218

TICKET ISSUING MACHINE

John Eskdale Fishburn, Uxbridge, and Christopher Frederick Webb., Kenton Park, England, assignors to Bell Punch Company Limited, Uxbridge, England

Application February 5, 1931, Serial No. 513,678, and in Great Britain December 10, 1930
24 Claims. (Cl. 164—48)



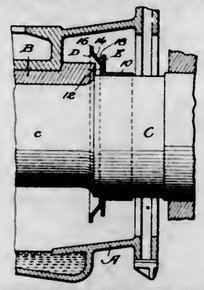
1. In a ticket issuing machine, the combination of a ticket delivery mechanism, a movably mounted driving member operatively connected with said mechanism, manipulative means operable to move said driving member to deliver one or more tickets in accordance with the extent of throw of the said manipulative means, and a unidirectionally actuated selector device independent of said manipulative means and operable to limit the extent of the said throw and thereby determine the maximum number of tickets which may be delivered in one cycle of operation of the delivery mechanism.

1,945,219

OBTURATING DISK

Edgar Fruhstorfer, Paris, France, assignor to Isothermos Corporation of America, New York, N. Y., a corporation of Delaware

Application January 10, 1930. Serial No. 419,907
4 Claims. (Cl. 286—5)



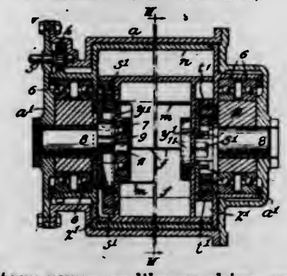
4. In combination with a rotatable shaft and its bearing, a device to prevent liquid lubricant from creeping along the shaft by discharging it away from the shaft by centrifugal force at various speeds of the shaft, comprising means carried by and rotatable with the shaft and having spaced flanges presenting peripheral edge portions terminating at different distances radially from the shaft, the edge portion located farthest from the shaft being nearest the bearing, the lateral spacing of said peripheral edge portions being in excess of the maximum spacing which will sustain a capillary column of the liquid lubricant, whereby the said edge lying farthest from the shaft will provide a major fluid adhering surface that will collect the liquid lubricant for discharge by centrifugal force at various speeds, and the edge disposed nearest the shaft will arrest capillary flow at low speeds, or when the shaft is at rest, to effect discharge of the liquid lubricant between the edges by gravity.

1,945,220

ROTARY PUMP MACHINE

George Edward Thomas Eyston, London, England, assignor to Powerplus (1927) Limited, London, England, a company of Great Britain

Application July 7, 1930, Serial No. 466,298, and in Great Britain February 5, 1930
3 Claims. (Cl. 103—121)



1. A rotary pump or like machine, comprising an outer casing having ports for inlet and discharge of fluid, a revoluble drum mounted centrically in said casing and having openings for inlet and discharge of fluid, a rotor mounted eccentrically in said drum and forming with it a crescent-shaped working chamber, said rotor being provided with a vane slot, a relatively slidable vane mounted in said vane slot of said rotor, and a floating drive ring operative between said drum and rotor and formed with pairs of sockets extending substantially the depth of the drive ring from face to face and opening to the opposite faces, projections on the drum and rotor engaging in said sockets over their entire depth, said socket formations being joined by sets of webs which are constructed to present openings at both the inner and outer periphery of said drive ring allowing passage of cooling medium completely through the body of said ring.

1,945,221

PRINTING OF TEXTILE FIBERS

Sebastian Gassner and Hermann Berthold, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 19, 1930, Serial No. 453,855, and in Germany May 29, 1929
27 Claims. (Cl. 8—5)

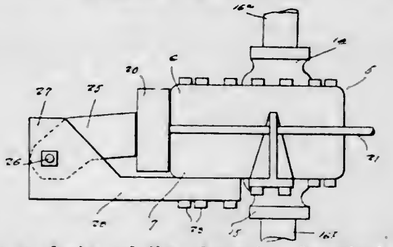
1. Process which comprises printing cotton with a printing paste comprising a vat dyestuff and an alkali metal salt of a compound of the group consisting of unsubstituted sulfonic and carboxylic acids of the benzene and naphthalene series, hydrogenation products thereof, benzene and naphthalene sulfonic acids substituted by alkyl groups or dialkylamino groups, and benzene or naphthalene carboxylic acids substituted by alkyl-, hydroxy- or dialkylamino groups.

1,945,222

COMBINED SAFETY AND SEALING DEVICE FOR OIL AND GAS WELLS

William A. Ingalls, Bristow, Okla.

Application March 15, 1932. Serial No. 599,040
1 Claim. (Cl. 251—166)



In a device of the character described, the combination with a valve casing, a valve member mounted to reciprocate therein, a stem connected with the valve member, and a cross head on the outer end of said stem, of a plate secured at one end to the valve casing and having a free tapered end, opposed upstanding ears rising vertically from the plate at the tapered end thereof, and an angular dog having one end thereof pivotally connected with the ears for swinging movement between the ears, and having a free end arranged to engage the cross head when the valve is in fully closed condition for securing the valve in such condition against casual opening.

1,945,223

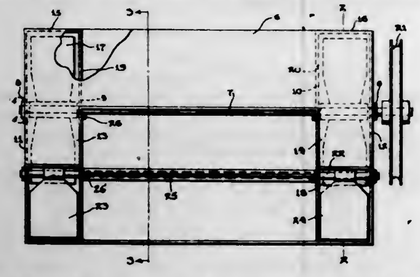
BLOWER FOR HOT AIR FURNACES

Fred I. Jaden, Hastings, Nebr.

Application October 20, 1930. Serial No. 490,061
1 Claim. (Cl. 126—110)

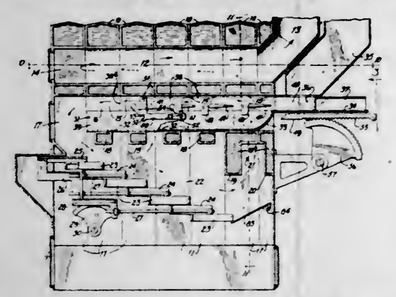
In combination with a hot air furnace having a jacket surrounding said furnace to form an air space therein, a draft box connected to said jacket and communicating with said air space, the top of said draft box being open, partitions forming chambers on each side of said draft box

and having openings connecting the chambers with the main body of the said box, blowers positioned in each chamber, dampers in each chamber and said main body, the damper in the main body being at right angles to the dampers in the chambers, the dampers in the chambers being of sufficient weight to maintain the same normally in vertical closed position and the damper



in the main body in open position; said blowers adapted to force the dampers in the chambers in open position and the damper in the main body in closed position during operation; the chambers having discharge openings into said air space surrounding the furnace so that the air will be equally distributed around the opposite sides of the said furnace.

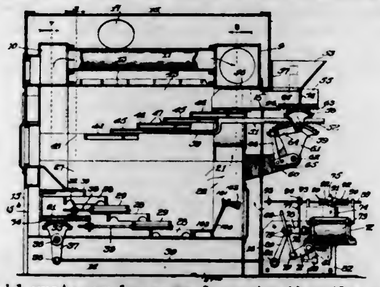
1,945,224
FURNACE
Orin Kelly, Columbus, Ohio
Application November 8, 1928. Serial No. 317,966
2 Claims. (Cl. 110—24)



1. In a furnace, the combination of a grate, a coal-supporting member arranged above said grate and subjected to the heat generated by the fire bed on said grate, said member having an apertured bottom for discharge, upon said fire bed, of fine particles of coal sifting through said member, means for feeding the coal along said apertured bottom, and means for conducting the gases generated by the heating of the coal on said member into the space between said grate and member.

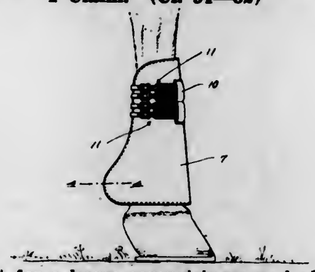
1,945,225
FURNACE
Orin Kelly, Columbus, Ohio
Application September 3, 1929. Serial No. 389,992
2 Claims. (Cl. 110—24)

1. In a furnace, the combination of a grate, a coking chamber directly above said grate, and means for feeding fuel along said coking chamber for discharge to said grate comprising a series of alternating stationary and reciprocable members forming the bottom of said chamber, certain of said members being apertured to permit fine particles of the fuel to discharge to the fire bed



on said grate, and means for actuating the movable ones of said members.

1,945,226
POLO BOOT
Carl F. Lutsche, Schofield Barracks, Territory of Hawaii
Application March 21, 1933. Serial No. 661,994
1 Claim. (Cl. 54—82)

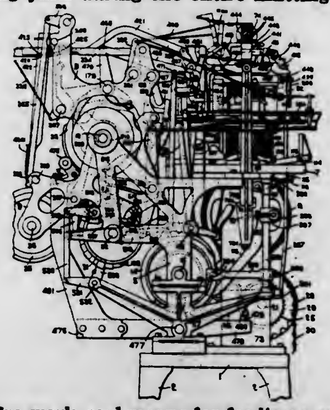


A boot for a horse comprising a pad of sponge rubber, a thin sheet of rubber connected to the inner face of the pad and having its edge portions projecting beyond the edge portions of the pad, a pliable sheet of leather connected to the outer face of the pad and having its edge portions projecting beyond the edge portions of the pad, closely arranged stitches connecting the edges of the sheet of rubber with the edges of the sheet of leather, said stitches being located outwardly of the edges of the pad, and fastening straps connected to the outer face of the leather sheet.

1,945,227
KNITTING MACHINE
Patrick P. La Montagne and George H. Froemming, Kankakee, Ill., assignors to La Montagne Machine Company, Kankakee, Ill., a corporation of Illinois
Application July 22, 1930. Serial No. 469,710
42 Claims. (Cl. 66—48)

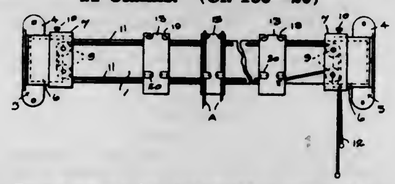
1. A knitting machine comprising a needle cylinder, a circular series of needles mounted to reciprocate therein, a cam cylinder for controlling the needles, means for relatively rotating and for relatively oscillating the needle and cam cylinders for predetermined periods to knit in succession a section of round and round work to form the leg and calf sections of a stocking web, a section of to and fro work to form the ankle section, a section of to and fro work to form the heel section, a section of to and fro work to form the foot section, a section of to and fro work to form the toe section, means for automatically shifting the relative rotary positions of the needle and cam cylinders 180° at the beginning and at the end of the knitting of the heel section to cause the heel section to be knit on the opposite side of the web from the ankle, foot and toe sections,

means for maintaining a segment of the needles at the back of the web out of action and without retaining yarn during the entire knitting of the



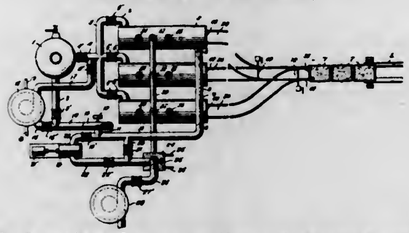
to and fro work, and means for feeding a separate yarn to each half of the heel section during the knitting thereof.

1,945,228
HANGER FOR DRAPERIES
Charles S. Nudelman and Harry Kruglick, Chicago, Ill.
Application April 24, 1933. Serial No. 667,715
11 Claims. (Cl. 156—20)



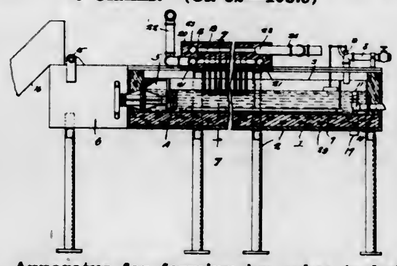
1. In a support for draperies of the type having a single grooved rod on which the draperies are hung, a bracket at each end of the rod, each bracket having a socket member for receiving the end of the rod, a pulley mounting at each end of the rod and fitted over to the socket member, and means for detachably holding the pulley mountings on the socket members.

1,945,229
CONVERTING APPARATUS
William Watters Pagon, Baltimore, Md., assignor, by mesne assignments, to The Oberphos Company, Baltimore, Md., a corporation of Maryland
Application August 30, 1928, Serial No. 303,086
Renewed June 21, 1932
11 Claims. (Cl. 71—1)



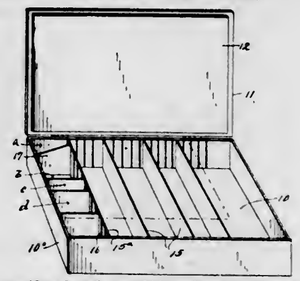
1. A system for converting nitrogenous material into a form suitable for use as a fertilizer, comprising a battery of autoclaves, a heat exchanger, conduit means for cyclically connecting said autoclaves with the heat exchanger, and means for cyclically circulating a treating fluid through said autoclaves and said heat exchanger.

1,945,230
MEANS FOR FORMING ICE CUBES
George Lange, Rockville Center, N. Y.
Application June 27, 1931. Serial No. 547,349
9 Claims. (Cl. 62—108.5)



1. Apparatus for forming ice cubes including a container for holding a body of water, freezing elements adapted to hang in the water, connections for the circulation of a refrigerant in said elements at one temperature to build up a jacket of ice on each element and at a higher temperature to release the jackets from the elements, and means for lowering the water to a level below said elements to receive and support the released jackets.

1,945,231
DUSTING BOX FOR THERMOGRAPHIC PRINTING
George W. Raabe, Sioux Falls, S. Dak.
Application March 3, 1932. Serial No. 596,610
7 Claims. (Cl. 41—1)



2. A method of multi-colored thermographic printing which consists in printing the design in size on the material to be printed, inverting a case having compartments containing different colored, fusible powders on to the sheet to cause the different colored powders to be applied to different colored appropriate portions of the design, then returning the case to its initial position and removing the sheet and then simultaneously fusing all of said powders.

6. Means for applying differently colored powders to designs printed in size comprising a dusting box having a number of transverse partitions dividing the box into a plurality of transversely extending compartments, and a plurality of partitions disposed at an angle to the first named partitions, and dividing the interior of the box into a plurality of compartments, each of which is adapted to contain a colored powder, and a cover hinged to the box and having an elastic mat on its inside face and adapted when closed to

force a sheet of paper into tight contact with the walls of said compartments and the wall of the box whereby to apply the colored powder to selected portions of the sheet when the box is inverted.

1,945,232

CLAY PRODUCT AND METHOD OF MAKING THE SAME

Herman Reiser, Lake Charles, La.

No Drawing. Application June 9, 1932
Serial No. 616,356
3 Claims. (Cl. 106—11)

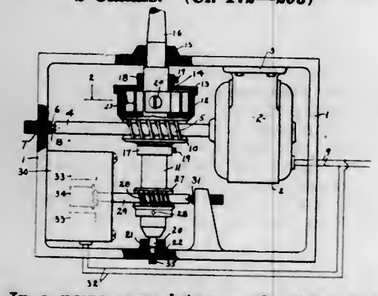
1. The process of making a clay product which consists in mixing brick or potters clay with the residuum obtained by burning rice hulls.

1,945,233

SPEED GOVERNING MECHANISM

William C. Roe, Elyria, Ohio, assignor to Telkor, Inc., Elyria, Ohio, a corporation of Ohio

Application July 8, 1930. Serial No. 466,402
2 Claims. (Cl. 172—293)



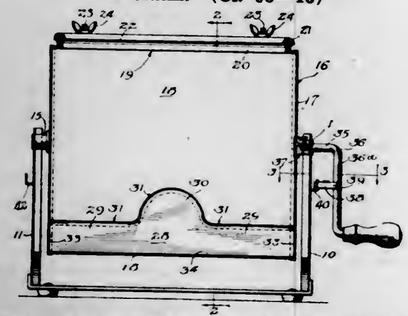
1. In a power supplying mechanism, a rotary power source, a rotary power-delivering element, rotatable by the power source at torque below a predetermined value only, a worm wheel on the power-delivering element, a second rotary element, a worm thereon meshed with the said worm wheel whereby the two rotary elements are constrained to rotate at a fixed velocity ratio and whereby the power-delivering element is prevented from rotating except upon rotation of the second rotary element, and means for rotating the second rotary element at substantially constant speed to cause the power-delivering element to rotate at substantially a constant speed.

1,945,234

WASHING MACHINE

Jacob I. Russakov, Chicago, Ill.

Application September 14, 1931
Serial No. 562,618
1 Claim. (Cl. 68—18)



In a hand-operable washing machine, a container having a trunnion at each end, with a crank arm extending from one of said trunnions, a supporting frame having a pair of end members, with each end member having an open-top bearing, each bearing being adapted to receive either of said trunnions, and both bearings supporting the trunnions for rotation whereby the rotatable container, said trunnions and said crank arm are freely reversible as a unit in the frame, said crank arm being directed to extend alongside one and then the other of said frame end members when said unit is alternately reversed in said frame, said crank arm having a latch adapted to engage readily releasably a catch on one of said end members to hold the crank arm and thereby the container in a given position against rotation, each of said end members having a catch adapted to coact alternately with said latch so to hold the container when said unit is alternately reversed in the frame.

1,945,235

PROCESS OF PREPARING A COLORLESS HOUSEHOLD INSECTICIDE

Nicholas A. Sankowsky, Elizabeth, and Dudley H. Grant, Moorestown, N. J., assignors to Stanco Incorporated

No Drawing. Application July 2, 1928
Serial No. 290,030
4 Claims. (Cl. 167—24)

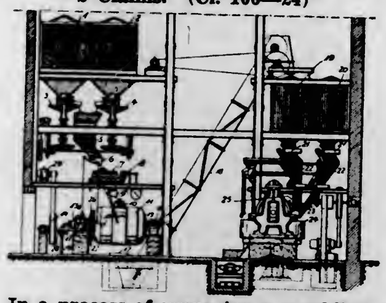
1. The process of preparing pyrethrum insecticide which comprises extracting pyrethrum flowers with kerosene to prepare a strong kerosene solution of pyrethrins, shaking the solution with anhydrous methyl alcohol to dissolve part of the kerosene extract of pyrethrum in the alcohol, cooling said alcohol to approximately 32° F. and centrifuging the same to remove dissolved impurities, distilling off the alcohol in vacuo to obtain as residue a purified extract containing the pyrethrins and dissolving said extract in water white kerosene.

1,945,236

SILICA BRICK

Julius Schüffler, Essen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a corporation of Delaware

Application June 13, 1931, Serial No. 544,222, and in Germany June 14, 1930
2 Claims. (Cl. 106—24)



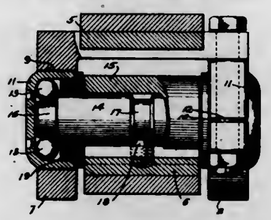
1. In a process of preparing a moulding mass for the manufacture of silica brick to be burned from finely ground silica and lime comprising mixing finely ground silica with lime and slaking thereof for subsequent burning of bricks from the mass, the improvement comprising: mixing only a part of the total content of finely ground silica of the ultimate bricks with unslaked lime and slaking the lime while so mixed, and thereafter mixing the reaction product resulting from such treatment with the remaining portion of the total content of finely ground silica of the ultimate bricks.

1,945,237

SPRING CONNECTION

John W. Smith, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut

Application December 4, 1930. Serial No. 499,923
2 Claims. (Cl. 267—55)



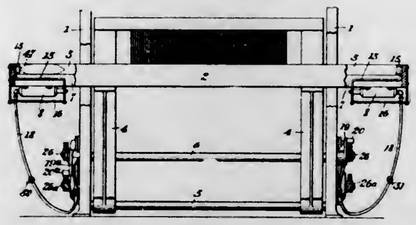
1. In a connection for a load carrying vehicle spring, a fitting comprising a rigid upper portion with two depending substantially parallel spaced bosses at opposite sides thereof, aligned threaded passages through said bosses, the rear side of each boss being slitted in a substantially horizontal plane to form a flexible lower portion, a bolt passage at each side of said fitting extending downwardly from the top of said rigid portion and through the flexible end of said fitting, a bolt therefor, raceway cups adjustably mounted in said openings, said cups being closed at their outer ends, a pin for supporting the eye of a load carrying vehicle spring positioned between said bosses, with antifriction devices between raceway members and the ends of said pin for supporting the latter.

1,945,238

PNEUMATIC PICKER MOTION FOR LOOMS

George V. Sumner, Columbia, S. C.

Application July 9, 1932. Serial No. 621,575
10 Claims. (Cl. 139—144)



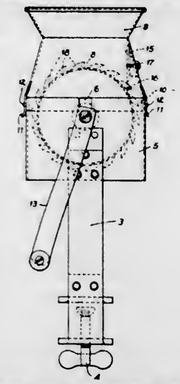
1. In a loom, the combination with a shuttle race, and a shaft provided with valve actuating parts, of pneumatic shuttle actuating devices at opposite ends of the shuttle races, valve mechanisms for controlling said shuttle actuating devices provided with movable valve operating elements, and adjustable supporting means for each of said valve mechanisms, including an apertured supporting plate, adapted to be rigidly secured to the frame of the loom, rotatable and laterally movable clamping plates rigidly connected with each of said valve mechanisms, and of greater diameter than the apertures in said supporting plate, a second clamping plate adapted to span an aperture in said supporting plate, and threaded clamping means for connecting said clamping plates, of less diameter than the aperture in said supporting plate to permit of the lateral and rotary adjustment of the valve mechanisms.

1,945,239

VEGETABLE CUTTER

Clifford A. Thomas, Yakima, Wash.

Application November 20, 1931
Serial No. 576,271
1 Claim. (Cl. 146—91)



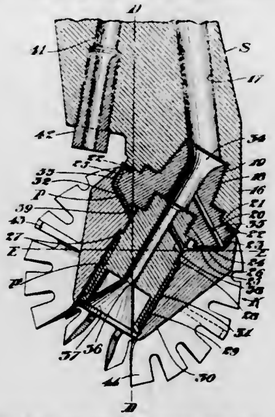
Cutting apparatus comprising a drum rotatable on a horizontal axis, the drum carrying teeth whose outer ends have sharpened cutting edges extending parallel to the axis of the drum and whose forward edges are disposed on lines substantially tangential to a circle drawn about the axis of the drum and whose rear edges are convex, and a vertical plate having stationary teeth depending from its lower edge, the teeth being spaced apart and positioned to permit the first-named teeth to pass between them during rotation of the drum, the stationary teeth having their working faces disposed in vertical planes and below a plane at the uppermost portion of the drum.

1,945,240

ROTARY DRILL BIT

Harry T. Tupica, Los Angeles, Calif., assignor of one-half to Roy R. Guthrie, Los Angeles, Calif.

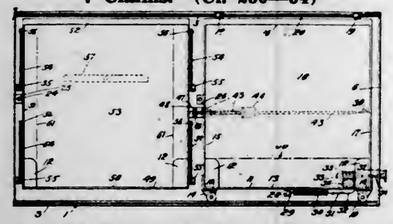
Application July 13, 1932. Serial No. 622,173
14 Claims. (Cl. 255—71)



1. A rotary drill bit comprising; a stem; a thrust-bearing pin removably secured to the stem; a radial-bearing pin removably secured to the first pin; a cutter rotatable on the radial bearing pin and bearing against the thrust-bear-

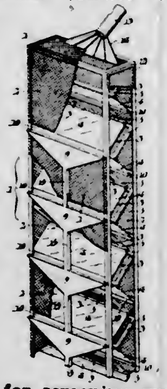
ing pin; and coacting means on the cutter and radial-bearing pin for securing the former against displacement from the latter.

1,945,241
PLATE CHANGER
Harry F. Waite, New York, N. Y.
Application January 5, 1932. Serial No. 584,810
7 Claims. (Cl. 250—34)



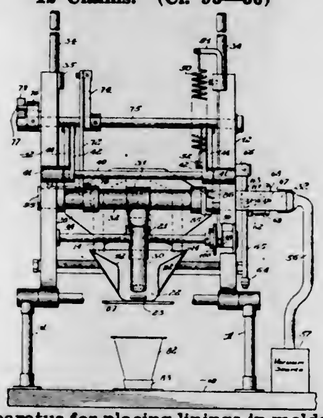
1. A plate changer having a frame provided with two cassette holders mounted in it, said holders being located one in back of the other, spring means acting to draw the outermost one of said holders to one side of the rear holder, manually operated locking means for preventing the operation of the spring means on the holder which it engages, means acting to normally thrust the rear holder forwardly and locking means for preventing forward movement of the rear holder while the outermost holder is located in front of it.

1,945,242
APPARATUS FOR CONDITIONING GRAIN OR THE LIKE
Samuel G. Walker, Baltimore, Md., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 13, 1932. Serial No. 622,234
3 Claims. (Cl. 209—356)



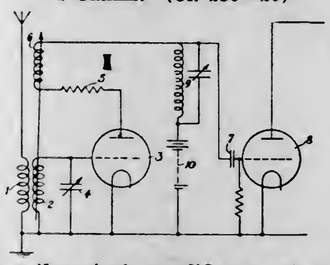
1. Apparatus for screening grain or the like comprising a framework, means for discharging the material to be screened at the top of the framework, a waste pipe for carrying off the screenings, and a series of inclined screens arranged in spaced relation one above the other in said framework so that grain will flow by gravity from one screen through the intervening air space to another in a zig-zag downward passage, plates attached to the lower edges of said inclined screens to catch the particles sifting through the screens and lead such material into said waste pipe, said plates being hinged along the lower edges of said screens whereby they may be swung upward to lie flat against the under sides of said screens to prevent their sifting action, and means for locking said plates in said position against the undersides of said screens.

1,945,243
MACHINE FOR PLACING PAPER LININGS IN MOLDS
Thomas D. Watkins, Utica, and Benjamin A. Slocum, Binghamton, N. Y.; said Slocum assignor to said Watkins
Application April 2, 1932. Serial No. 602,842
12 Claims. (Cl. 93—36)



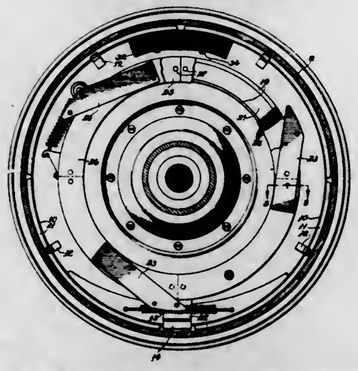
1. Apparatus for placing linings in molds, comprising a support for holding a lining, a tubular member, and means for bringing said tubular member adjacent said lining and for creating a suction in said member so that a part of said lining is held thereby to said member and for subsequently moving said tubular member into a mold and releasing the suction so that said lining is placed in said mold.

1,945,244
THERMIONIC VALVE CIRCUIT
Alfred Whitaker, West Drayton, England, assignor to Victor Talking Machine Company, a corporation of New Jersey
Application March 18, 1930, Serial No. 436,874, and in Great Britain April 8, 1929
4 Claims. (Cl. 250—20)



1. In a thermionic amplifier, a pair of valves each having a tunable input circuit, an output circuit for one of said valves connected to the input circuit of the other valve, said connection including a radio frequency current limiting resistor connected to the anode of the one or first valve, a stopping condenser connected to the grid of the other or second valve, and a feedback circuit connected in series between said resistor and condenser.

1,945,245
FRICTION DEVICE
John Whyte, Beloit, Wis., assignor to Warner Electric Brake Corporation, South Beloit, Ill., a corporation of Illinois
Application June 10, 1932. Serial No. 616,375
14 Claims. (Cl. 188—140)



13. In a friction device, the combination of a pair of friction elements arranged for gripping engagement and relative motion, and a body of nonresonant material mounted on one of said elements and acting to change the natural frequency of vibration thereof to a value outside of the range of audibility.

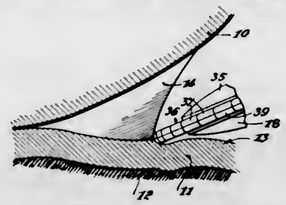
14. A friction brake comprising a rotatable drum, a friction element extending around a cylindrical surface of said drum and adapted to be pressed into engagement therewith, and a stack of sheet metal laminations secured to the side of said element opposite said surface.

1,945,246
SEPARATION OF ORGANIC DIBASIC ACIDS
Heinrich W. Witzel, Ingram, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application September 26, 1930
Serial No. 484,707
10 Claims. (Cl. 260—122)

1. A method of producing organic acids in a state of substantial purity which comprises effecting the vapor phase catalytic oxidation of a cyclic organic compound to intermediate oxidation products with splitting of the ring, removing the major portion of the products from the gas stream, subjecting the tail gases to the action of water, adding alkali to the solution so formed in amounts sufficient for the formation of an acid salt which differs in solubility from the remaining constituents of the solute and separating out the product having the lowest solubility.

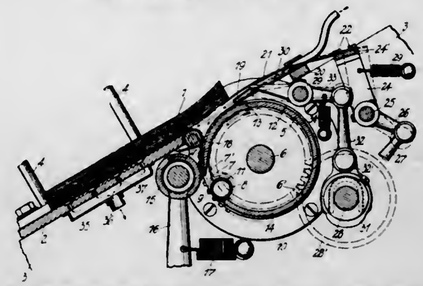
1,945,247
METHOD OF AND MEANS FOR REMOVING THE SKIN FROM CATTLE AND THE LIKE
Walter Paul Wezel, Maulbronn, Germany, assignor to Chas. L. Jarvis Company, Inc., Gildersleeve, Conn., a corporation of Connecticut
Application December 4, 1931. Serial No. 578,853
3 Claims. (Cl. 17—22)

1. In apparatus for skinning animal carcasses, having a handle and base extending therefrom, the improvement comprising a pair of substantially circular plates centrally pivoted to the base to form a common axis of oscillation and having dull jagged ends in the periphery thereof for separating skin from the meat of the animal, said plates having a recessed portion forming prongs depending from the center thereof and being in alignment with the longitudinal axis of the base, linkage rocking means pivoted to the base in connection at one end with the prongs of one of the plates and having prongs at the



other end, and eccentrically mounted cranking means in the handle having a cross pin in connection with the prongs of the second plate and the prongs of the linkage rocking means for simultaneously actuating both whereby, upon rotation of said means, a relatively opposite oscillating movement is imparted to the plates to push and jog the tissue intermediate the skin and flesh.

1,945,248
DEVICE FOR REMOVING FROM A PILE OF SHEETS THE SHEET LOWERMOST AT THE TIME
Alfred Winkler and Max Dünnebier, Neuwied, Germany
Application December 12, 1932, Serial No. 646,892, and in Germany July 17, 1931
13 Claims. (Cl. 271—29)

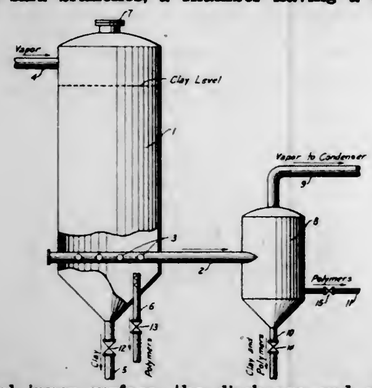


1. In a sheet feeding device, the combination with means for separating and withdrawing from a pile of sheets the sheet lowermost at the time without simultaneously folding it, of means for directing a current of compressed air between the lowermost sheet in the act of being withdrawn and the rest of the pile above it and lifting the latter off said lowermost sheet.

1,945,249
APPARATUS FOR FILTERING PETROLEUM VAPORS
Malcolm P. Youker, Tulsa, Okla., assignor, by mesne assignments, to The Gray Processes Corporation, Newark, N. J., a corporation of Delaware
Application January 11, 1929. Serial No. 331,816
1 Claim. (Cl. 196—96)

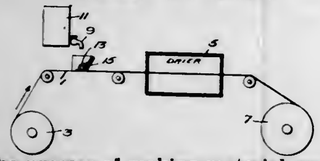
A petroleum vapor treating apparatus comprising a vessel substantially filled with solid adsorptive material, a vapor inlet pipe, a vapor outlet pipe, perforated lateral branches extending from the vapor outlet pipe and being embedded

in the solid adsorptive material, means for preventing influx of the solid adsorptive material into said branches, a chamber having a cylin-



drical inner surface, the discharge end of the vapor outlet pipe opening tangentially into said chamber, a vapor outlet pipe for said chamber, and a liquid outlet pipe for said chamber.

1,945,250
PYROXYLIN SHEET MATERIAL
Guy E. Alling, Athol, Mass., assignor to Athol Manufacturing Company, Athol, Mass., a corporation of Massachusetts
Application August 20, 1932. Serial No. 629,658
7 Claims. (Cl. 18—57)

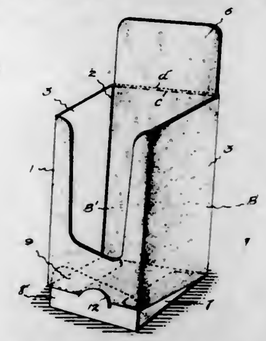


1. The process of making material useful as a leather substitute and for other purposes which comprises spreading a layer of pyroxylin solution containing a plasticizer upon a substantially air pervious sheet to which it will not firmly adhere, drying the layer, and stripping the dried layer from said sheet.

1,945,251
PACKAGING AND DISPLAY CONTAINER
Champe S. Andrews, North Chattanooga, Tenn., and Arnold J. Tanner, North Haven, Conn., assignors to Box Blank Corporation, New York, N. Y., a corporation of Delaware
Application September 24, 1931
Serial No. 564,808
9 Claims. (Cl. 206—44)

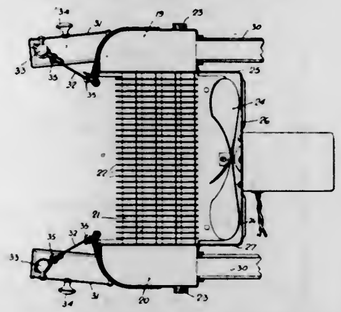
1. A container comprising a body having front, back and side walls, bottom forming flaps on said body and a backing sheet secured on the inner surface of said back wall, said sheet carrying a closure flap for the top of the container, said flap being connected to said sheet so as to hinge on a transverse crease line, said top closure flap being adapted to operate as a display card when in an erect position, and said sheet being precisely located in a position wherein said crease or hinge lies below the top edge of said back wall so that said edge will operate as a stop to maintain said flap in an erect display card position substantially in alignment with said back wall.

9. A container of the class described comprising a body having back, side and front walls and an open top, a re-enforcing backing sheet or inner member secured to said back wall, said backing sheet having closure means forming a bottom for the container, said closure means being ad-



justable, and means for retaining said closure means in adjusted position so as to provide a relatively inclined bottom whereby the container is supported in an inclined display position.

1,945,252
HEATER
John M. Aufiero, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application October 8, 1931. Serial No. 567,646
7 Claims. (Cl. 257—137)

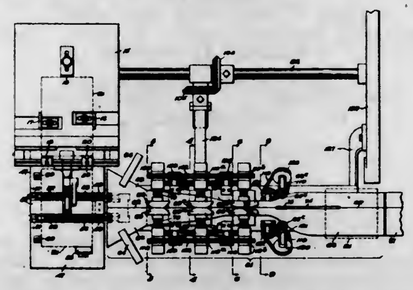


5. A heater including a casing having an opening, a heating element extending within said casing and across said opening, a pair of plates for closing said opening when disposed substantially in the plane of said casing, and a pair of mounting members for said plates, said mounting members each including an arm, a ball and socket connection for coupling the outer end of the arm to the plate to be supported thereby, and means for movably securing the inner ends of the respective arms to said casing and adjacent opposite edges of the opening defined therein.

1,945,253
MACHINE FOR FOLDING AND FEEDING BOOK SIGNATURES
Roy C. Baker, Wollaston, Mass.
Application July 7, 1931. Serial No. 549,179
10 Claims. (Cl. 270—37)

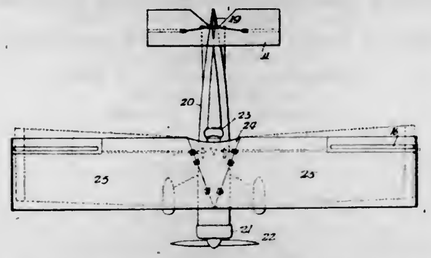
1. The combination with a signature fastening machine having a movable saddle, of a signature folding and feeding machine having a saddle aligned with said movable saddle in the initial

position of the latter, and means for folding a signature and feeding the same along the sec-



ond-mentioned saddle toward the first-mentioned saddle.

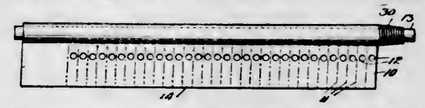
1,945,254
AEROPLANE
Charles C. Bittner, Chicago, Ill.
Application November 2, 1931. Serial No. 572,454
12 Claims. (Cl. 244—29)



11. In an aeroplane, the combination of a motor-propelled fuselage, a wing structure comprising a fixed wing section in the form of an isosceles triangle and with substantially straight side margins which diverge rearwardly, a pair of end wing sections extending outwardly from the fixed wing section and having the inner ends thereof angled correspondingly to the side margins of the fixed wing section and pivoted to said margins so that the end wing sections may be swung upwardly and rearwardly from a normal flying position wherein they are substantially coplanar, means for preventing the end wing sections from swinging upwardly and rearwardly beyond a safety position wherein the dihedral angle is the same as the angle at which each side margin of the fixed wing section extends with respect to the transverse center line of the wing structure, and means for controlling upward swinging of the end wing section from said normal flying position to their aforesaid safety position.

1,945,255
APPARATUS FOR AND PROCESS OF MAKING LIP STICKS AND THE LIKE
Jean M. Camagni, Paterson, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey
Application April 7, 1932. Serial No. 603,794
3 Claims. (Cl. 93—3)

2. The process of making lipsticks in pencil form consisting in first spirally forming a tubular paper sheath about a core from a blank having parallel weakened lines forming strips with the strips overlapping when spirally wound on the

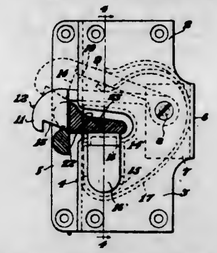


core, then removing the core and then pouring molten lipstick material into the sheath.

1,945,256
DEPOSITION OF RUBBER
Robert Bertram Fisher Frank Clarke, Bramhall, England, assignor to Imperial Chemical Industries Limited, Westminster, England
No Drawing. Application October 8, 1930, Serial No. 487,375, and in Great Britain October 21, 1929
2 Claims. (Cl. 18—58)

1. In the art of depositing rubber from rubber latex, the improvement which consists in immersing in the latex a gas-permeable vessel containing carbon dioxide under pressure and causing coagulation of the rubber to take place upon the outer surface of the vessel.

1,945,257
AUTOMOBILE BODY LOCK
Charles W. Cook, Buffalo, N. Y.
Application December 27, 1930
Serial No. 505,122
1 Claim. (Cl. 292—254)

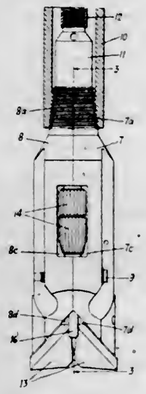


A locking mechanism including a casing adapted to be secured in a relatively stationary member and having an offset pocket wall, a latch bolt pivoted in the casing and normally resting on and extending beyond the pocket wall and adapted to co-operate with a keeper to be secured on a door and pass into the pocket wall to be engaged by the bolt when the door is closed, a rock shaft mounted in the door adjacent the keeper, a lifter secured on the rock shaft and lying alongside the keeper and disposed below the bolt, and means for rocking the shaft whereby the lifter will release the bolt from the keeper.

1,945,258
EARTH BORING APPARATUS
Anthony H. Collins, Bronxville, N. Y., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application September 16, 1931
Serial No. 563,050
7 Claims. (Cl. 255—71)

1. In rotary earth boring apparatus, a bit head for mounting conical cutters in diametrically opposed relation and having an axial opening for receiving a wash pipe, said wash pipe having means for discharging a part of the flushing fluid axially between the cutters and a pair of obliquely diverging arms for discharging the re-

mainder in two jets on opposite sides of said axial



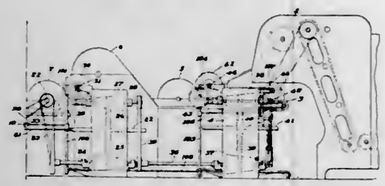
discharge in a vertical plane transverse to the plane of the cutters.

1,945,259

METHOD OF AND APPARATUS FOR PICKING COTTON

Robert S. Curley, Lowell, Mass., assignor to Saco-Lowell Shops, Lowell, Mass., a corporation of Massachusetts

Application October 8, 1927, Serial No. 224,968
Renewed August 8, 1931
37 Claims. (Cl. 19—65)



1. That improvement in methods of preparing cotton for carding which consists in subjecting loose cotton to a picking operation, working the picked cotton into the form of a web, performing an additional picking operation on said web, feeding the web continuously from the first of said operations to the next, manipulating the web to direct the fibres to the second picking instrumentalities transversely to their direction of issue from preceding picking instrumentalities, working the web into the form of a lap at the conclusion of said additional picking operation, and performing said operations continuously.

1,945,260

COMPOSITION OF MATTER AND PROCESS OF TREATING MOLTEN METALS

Alfred H. Davies, deceased, late of New York, N. Y., by Edith Vail Davies, executrix, New York, N. Y.

No Drawing. Application March 7, 1932
Serial No. 597,415
21 Claims. (Cl. 75—48)

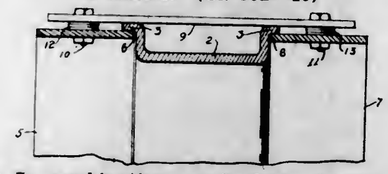
1. A composition of matter for use in metallurgical operations comprising alkali metal chlorate, a boron compound, sodium carbonate and manganese dioxide.

1,945,261

DETACHABLE TRACTION RIM FOR AUTOMOBILES

Lewis J. Davis, San Jose, Calif.

Application January 7, 1933. Serial No. 650,638
4 Claims. (Cl. 301—40)



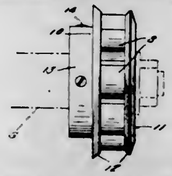
3. In combination, a wheel rim having outwardly and axially turned peripheral flanges forming shoulders with the rim, an annulus seated in the shoulder formed by each flange, clamping means overlying the rim in parallel relation to the axis of the rim and secured at its ends to each annulus whereby to clamp the same in position, and grousers overlying the rim in angular relation to the clamping means and removably attached at their ends to each annulus.

1,945,262

DEVICE FOR THICKENING THE EDGE OF SHOE SOLES

Ernest E. Doane and Augustus Bowers, Bridgewater, Mass.

Application September 15, 1931
Serial No. 562,950
4 Claims. (Cl. 12—103)



1. A rotary device for thickening the edge of a shoe sole comprising a circular tool having a plurality of rigid substantially semi-circular projections on its periphery and spaced apart at their bases said projections being of a width corresponding to that of the thickened sole, and gage plates contacting the side faces of the tool and forming continuous peripheral walls opposite the spaces between said semi-circular projections for limiting the thickening operation on the sole.

1,945,263

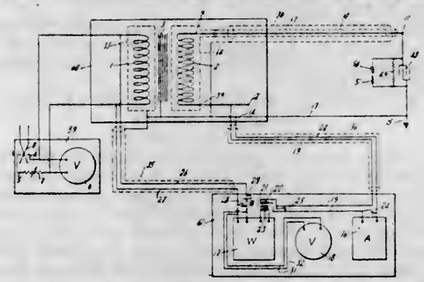
APPARATUS FOR TESTING INSULATING VALUES

Frank C. Doble, Cambridge, Mass., assignor to Doble Engineering Company, Medford Hillside, Mass., a corporation of Massachusetts

Application June 24, 1931. Serial No. 546,505
19 Claims. (Cl. 175—183)

1. An apparatus for measuring the electrical qualities of insulating materials comprising a high voltage step up transformer, means for varying the low tension voltage applied to the transformer, a conductor leading from the high tension winding to the insulation to be measured, an inner system of shields insulated from ground and covering the high tension winding and said leading conductor, said shielding system being connected to the opposite end of the high tension winding of said conductor, a watt meter, an ammeter, said ammeter and the current coil of said watt meter being connected between the inner

shield system and ground, a volt meter which together with the potential coil of the watt meter is connected across the low tension side of the



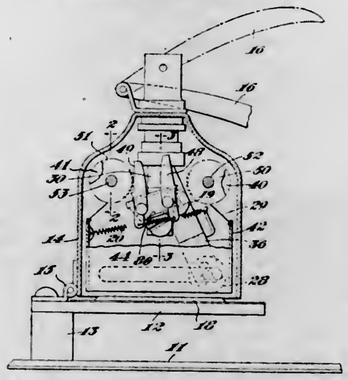
transformer, and an outer system of shields connected to ground and covering the low tension transformer winding and all of the said leads and connections.

1,945,264

PRINTING DEVICE

Richard M. Dugdale, Dedham, Mass., assignor to Farrington Manufacturing Company, Boston, Mass., a corporation of Massachusetts

Application September 18, 1931
Serial No. 563,467
5 Claims. (Cl. 101—274)



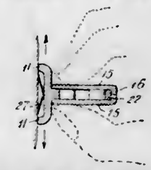
1. A device for printing names and addresses or other indicia on sales slips or the like comprising a printing plate holder, a roller movable along the plate holder for progressively pressing successive portions of slips against a printing plate, means for conjointly moving the roller and compressing the slips between the plate holder and roller, including a spring for holding the roller in one direction, an actuator for moving the roller in the other direction against the action of the spring, the actuator advancing in a direction to force the roller toward the printing plate, an ink ribbon feeding along the face of the holder, reels for said ribbon, ratchet teeth for rotating either reel, pawl means mounted to move from a central position into either of two operative positions to actuate either reel in response to movement of said actuator and spring means to snap said pawl means from its central position and yieldingly hold it in either of said operative positions, said pawl means having surfaces engageable with the rolls of ribbons on said reels respectively, whereby when the roll of ribbon on one wheel reaches a predetermined diameter said pawl means is snapped into the other operative position to rotate the other reel in reverse direction.

1,945,265

SAFETY RAZOR

Gustav Adolf Ekstedt, Philadelphia, Pa.

Application December 28, 1929
Serial No. 417,084
5 Claims. (Cl. 30—12)



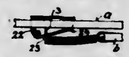
1. In a safety razor, the combination of a holder, a concave blade of substantially rectangular shape having opposite cutting edges lying in the same plane, guard flanges on the holder extending adjacent the cutting edges of the blade and lying substantially in the common plane thereof, and means for removably securing said blade upon said holder with its concave surface directed outwardly for placement against the surface to be shaved with both edges of the blade simultaneously engaging the said surface during the shaving operation.

1,945,266

FASTENER FOR BRACELETS ADJUSTABLE IN SIZE

Robert Einsele, Pforzheim, Germany

Application February 26, 1932, Serial No. 595,360, and in Germany June 23, 1931
7 Claims. (Cl. 24—206)



1. A fastener for bracelets adjustable in size, comprising in combination a flat continuous sleeve, a flat fastener element guided in said sleeve and resilient in width, a downwardly bent front edge on said element provided with undercut notches on its side edges, and lateral presser extensions on said element adapted to compress said element to shift said notches into disengaging position.

1,945,267

CONTACT SULPHURIC ACID PROCESS

Franz P. Fiedler, Pittsburgh, and Alphons O. Jaeger, Mount Lebanon, Pa., assignors to The Selden Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application June 1, 1931
Serial No. 541,488
5 Claims. (Cl. 23—175)

1. A process of oxidizing sulphur dioxide to sulphur trioxide, which comprises bringing about reaction between sulphur dioxide and oxygen containing gases in the presence of a catalyst containing thallium oxide and vanadium in chemical combination.

1,945,268

ORNAMENT RETAINING DEVICE

John Fielding, North Providence, R. I., assignor of one-half to Joseph P. Whitaker, Apponaug, R. I.

Application April 26, 1933. Serial No. 668,005
15 Claims. (Cl. 40—10)

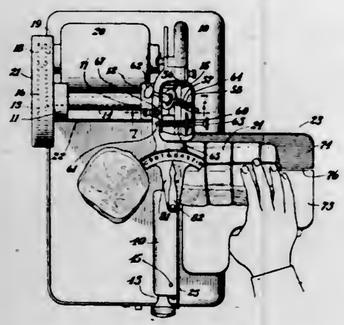
13. An ornament retaining device comprising two sheet metal members, means on one member to secure it to an ornament, means on the other member to permanently secure it to some part to which it is desired the ornament be removably

applied, a slideway on one member to slidably receive the other member, one of the members having a portion cut and raised from the sheet stock thereof to form a resilient tongue, the other



member having a portion cut from the stock thereof to provide an edge with which said tongue engages to secure the members in locked relation, and a finger piece on said tongue to move the same to unlocked relation.

1,945,269
SLICING MACHINE
Gotthard Freudenberg, Brooklyn, N. Y., assignor to Adolph M. Peters, New York, N. Y.
Application December 2, 1927. Serial No. 237,161
21 Claims. (Cl. 146—102)



1. In a meat slicing machine, a rotating knife, a gauge plate substantially aligned therewith and adapted to guide the meat during transverse movement of the latter against the knife, and means for imparting an adjusting movement of pure translation to the gauge plate, said movement being along a circular arc whose axis lies substantially in the plane of the knife.

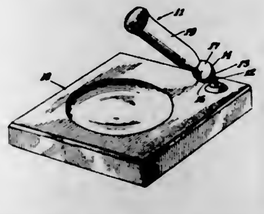
9. In a meat slicing device, a rotating knife, a guard plate having its outer surface coplanar with the cutting edge of the knife, a meat carriage mounted for reciprocal movement with respect thereto and designed for direct manual grasp and operation, a lever actuated by the carriage, and a spring associated with the lever for impressing a continuous load upon the carriage during its advance movement, said lever and spring being so arranged that the leverage acting upon the spring automatically increases with the spring strain, whereby the load created by the spring remains substantially constant.

12. In a meat slicing machine, a rotating knife, a reciprocally movable meat carriage, a guide rail for the carriage, a hood overlying said rail and substantially enclosing the same to protect it from matter thrown down by the rotating knife, a bearing mounted on said hood, and a cover plate for the knife having a pivot associated with said bearing and thereby permitting downward pivoting of said plate to uncover the knife for cleaning purposes.

1,945,270
PROCESS FOR THE PURIFICATION OF 2-PHENYLQUINOLINE-4-CARBOXYLIC ACID AND ITS SALTS
William H. Glahn, Arlington, and Jacob Ehrlich, Belleville, N. J., assignors to Verona Chemical Company, North Newark, N. J., a corporation of New Jersey
No Drawing. Application August 14, 1931
Serial No. 557,134
7 Claims. (Cl. 260—39)

1. In a process for the production of purified cinchophen, the steps which comprises warming crude cinchophen with a member of the group consisting of the alkali metal salts of hypochlorites and the alkali earth metal salts of hypochlorites, and separating the thus produced alkali- and water-insoluble colored substances from the cinchophen.

1,945,271
PEN HOLDER
Benjamin W. Hanie, Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware
Application May 28, 1931. Serial No. 540,612
3 Claims. (Cl. 120—108)



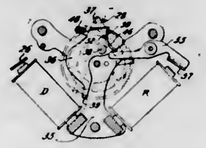
1. A device adapted for supporting a pen comprising a ball, means supporting said ball, a socket member engaging said ball, said socket member having a plurality of extensions separated by slots and extending beyond the center of said ball, beads at the lower edges of said extensions, a shank extending from said socket member, a nut mounted upon said shank, and a member bearing upon said socket member and engaged at opposite ends by said bead and nut.

1,945,272
ELECTRIC CLOCK
George F. Harter, Springfield, Mass., assignor to Standard Electric Time Company, Springfield, Mass., a corporation of Connecticut
Application April 15, 1932. Serial No. 605,470
9 Claims. (Cl. 58—24)

1. A secondary clock having an oscillating driving mechanism for advancing the clock train step-by-step in response to impulses from a master clock, and corrective means for automatically rendering said driving means ineffective at predetermined intervals, said corrective means comprising a movable stop member engageable with said driving mechanism to obstruct its oscillating movement, a latch member pivotally connected to said stop and adapted to hold the same in obstructing position, and an abutment movable in an orbital path with the clock train and engageable with said latch at a predetermined point in its path to move said stop into obstructing position.

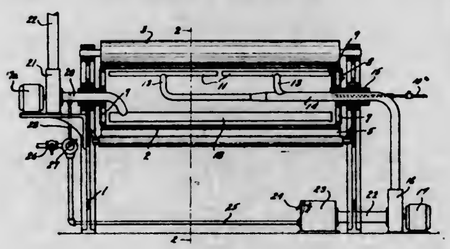
9. A synchronized clock system comprising a master clock and a secondary clock of the type

having an oscillating driving mechanism for advancing the clock train step by step, means in the master clock for transmitting driving impulses to the secondary clock, and corrective means in the secondary clock for effecting synchronism between the master clock and the secondary clock periodically in accordance with the chronological condition of said clock, said corrective means including a stop movable from a normal position



to a locking position in which it obstructs the oscillating movement of said driving mechanism, a latch pivotally secured to said stop and adapted to hold the same in locking position, means constructed and arranged to effect locking action of said stop automatically at a predetermined point in the cyclic movement of the clock train, means for releasing said latch, and means operative upon release of said latch to restore said stop to normal position.

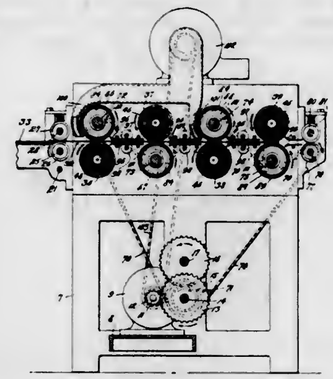
1,945,273
GAS HEATED IRONING MACHINE
Russell A. Hetzer, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application November 4, 1932. Serial No. 641,267
5 Claims. (Cl. 68—9)



1. An ironing machine of the class described, comprising an ironing cylinder and a cooperating ironing member, said cylinder being rotatable, a relatively stationary burner located within the cylinder and arranged to direct flame upon the cylinder wall at the top of the cavity therein, and a single means for withdrawing products of combustion from a zone at the bottom of the cylinder cavity, said zone having a length equal to that of said cylinder cavity and said means being effective throughout the entire length of said zone.

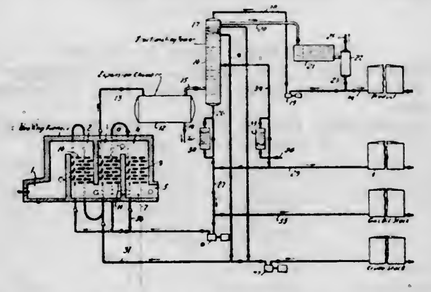
1,945,274
METAL PLATE CLEANING MACHINE
August Hormel, Hoboken, N. J.
Application June 15, 1932. Serial No. 617,357
8 Claims. (Cl. 15—102)

1. In a machine for cleaning metal plates, a pair of rollers between which a plate to be cleaned is passed, one of said rollers being provided with a soft covering, the other roller being provided with magnetic areas in its peripheral face by which the plate is magnetically en-



gaged, said rollers being rotated in the same direction during the cleaning operation.

1,945,275
ART OF CRACKING HYDROCARBONS
Edward W. Isom, Scarsdale, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application April 12, 1929. Serial No. 354,450
2 Claims. (Cl. 196—58)



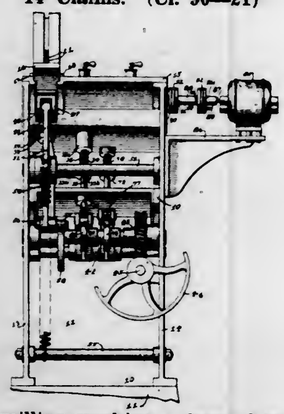
2. In cracking higher boiling hydrocarbon oil to produce gasoline character products, the improvement which comprises forcing a gas oil successively through primary and secondary stages in a heating zone under superatmospheric pressure and thence into an expansion chamber, heating the oil in the primary stage to a high cracking temperature as discharged therefrom, introducing a cool crude oil at a temperature less than about 350° F. into the oil passing from the primary stage to the secondary stage of the heating zone, controlling the amount of cool crude oil so introduced to reduce the temperature of the hot cracked oil as discharged from the primary stage to a temperature below that at which substantial cracking will take place, further heating the oil mixture so produced in the secondary stage to a cracking temperature lower than the temperature of the oil discharged from the primary stage, reducing the pressure on the oil passing from the secondary stage of the heating zone to the expansion chamber, taking off vapors including vapors of the gasoline character product from the expansion chamber and discharging residue from the expansion chamber.

1,945,276

KEY MILLING MACHINE

Ernest E. Kahl, Nem Britain, Conn., assignor to The B. Jahn Manufacturing Company, New Britain, Conn., a corporation of Connecticut

Application November 6, 1930. Serial No. 493,803
14 Claims. (Cl. 90—21)



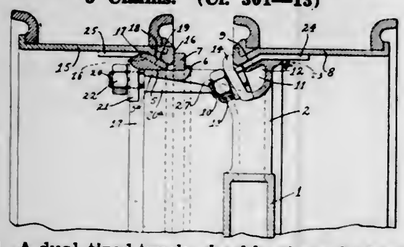
1. In a milling machine, a frame having a top wall, a pair of longitudinal parallel guideways in said top wall, an article-holding plate slidable in one of said guideways, a second plate adjustable in the other guideway, a transverse guideway in said second plate, a rotary cutter shaft-supporting plate in said transverse guideway, and means to adjust said second plate with respect to said article-holding plate.

1,945,277

DUAL TIRED TRUCK WHEEL

Lloyd D. Kay, Los Angeles, Calif., assignor to Kay-Brunner Steel Products Inc., a corporation

Application July 3, 1928. Serial No. 290,142
3 Claims. (Cl. 301—13)



1. A dual-tired truck wheel having a body with a single integral inboard felloe having a substantially conically curved seat with the small end of the "cone" of the seat disposed toward the outboard side of the wheel, said inboard felloe having clamping studs for the inboard tire rim mounted in the same adjacent to the inboard tire rim seat and disposed adjacent to the smaller end of said inboard seat with their axes inclining toward the axis of the wheel, said wheel having a single outboard seat with means for securing an outboard tire rim upon the same.

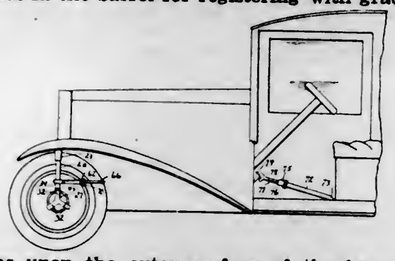
1,945,278

BRAKE TESTER

William K. Kingsland, Philadelphia, Pa.

Application February 27, 1933. Serial No. 658,679
6 Claims. (Cl. 265—1)

2. A brake tester comprising a hand lever, a barrel pivoted at one end to said lever, an inside tube adapted to slide back and forth within the barrel, a spring having one end connected with the inner end of said inside tube and the other end anchored in the barrel, a pointer carried by the inside tube and passing through a slot in the barrel for registering with graduations upon the outer surface of the barrel, a fulcrum member removably mounted on the lower end of the hand lever, bearing members removably mounted on the fulcrum member for engagement with the outside or inside of a wheel hub, and a tire hook adjustably and reversibly attached to the outer end of the inside tube.

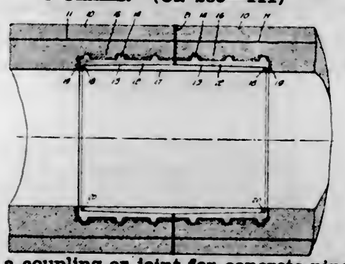


1,945,279

CONCRETE PIPE COUPLING

Warren A. Kraner, San Francisco, Calif., assignor to Cement Wrapped Pipe Company, Ltd., San Francisco, Calif., a corporation of Arizona

Application February 24, 1932. Serial No. 594,895
3 Claims. (Cl. 285—111)



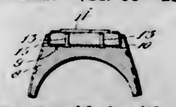
1. In a coupling or joint for concrete pipe sections, a metallic sleeve having an internal diameter corresponding to that of the pipe sections, and metallic rings imbedded in the end portions of the concrete pipe sections to be joined, the inner peripheral surfaces of said rings being adapted to fit upon the outer periphery of said sleeve, the remote ends of said rings being provided with annular flange portions having an internal diameter corresponding to that of the pipe sections.

1,945,280

RING

Peter Lambusta, Newark, N. J.

Application August 27, 1932. Serial No. 630,621
2 Claims. (Cl. 63—15)



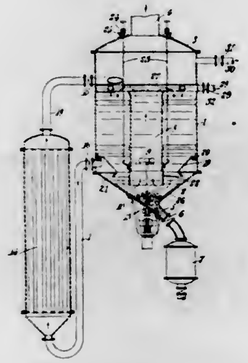
1. A finger ring provided with a flat surface, an outer bezel secured to said flat surface, an inner bezel and a base positioned within the inner bezel, the inner bezel being so proportioned as to be received within the outer bezel only by the application of force, thereby contracting the inner bezel to tightly grip the base therein and to secure the bezels together, the lower edges of the inner bezel resting on the flat surface of the ring.

1,945,281

EVAPORATING APPARATUS

Heinz Leithäuser, Essen on the Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a corporation of Delaware

Application May 16, 1931, Serial No. 537,880, and in Germany May 15, 1930
3 Claims. (Cl. 159—45)



1. Evaporating apparatus for the recovery of solid ammonium sulphate and similar salts from solutions comprising, in combination: a crystallization vessel; a vertical circulation pipe arranged in said vessel below the level to which the liquid is to occupy therein and open at its top and bottom; rotary liquid-circulation means arranged in line with said pipe for causing a regulable upward flow of liquid therein so as to cause a circular current through the circulating pipe and down through the space between the vessel and the pipe and thereby keep seed crystals in suspension in the liquid until they attain a definite size; the bottom of said vertical pipe terminating at a spaced distance above the bottom of said vessel and the rotary liquid-circulation means being disposed at a spaced distance above the bottom of the vessel so as to be above the lower end of the liquid circulation pipe; and an annular baffle tapering conically downwards towards the recirculation pipe and arranged between the sides of said pipe and said vessel near the lower end of said pipe.

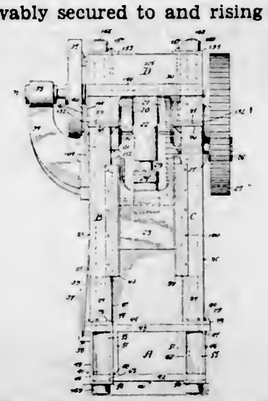
1,945,282

SUPPORTING STRUCTURE FOR PUNCH PRESSES AND THE LIKE

Bror J. Lindgren, Buffalo, N. Y., assignor to Niagara Machine and Tool Works, Buffalo, N. Y., a corporation of New York

Application March 29, 1930. Serial No. 440,075
13 Claims. (Cl. 164—86)

1. A frame for punch presses or the like, composed of structural steel members welded together, said frame including a base composed of an upper rolled metal plate, a rolled metal base plate and risers welded at their upper and lower edges to said base and upper plates and connecting said upper and base plates and a pair of rolled metal standards removably secured to and rising from said base, said standards being adapted to support the moving parts of the punch press.

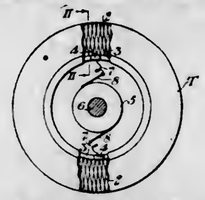


1,945,283

RESILIENT TIRE CONSTRUCTION FOR TRACK CIRCUIT SHUNTING

Harold S. Loomis, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 24, 1932. Serial No. 619,077
2 Claims. (Cl. 246—34)



1. In combination with a rail vehicle and a stretch of railway track, a pair of resilient tires for a wheel pair mounted upon an axle of said vehicle, a first conductor embedded within each of said tires, a group of secondary conductors for each tire connected with said first conductor of the respective tire and extending into the tire tread in such manner as to perforate the tread surface, and means for connecting together said first conductors of the tire pair for providing a conducting path between the rails of said track through the medium of said secondary conductors for shunting the track.

1,945,284

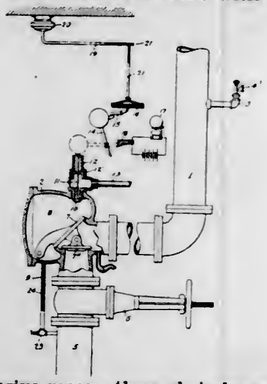
AUTOMATIC FIRE EXTINGUISHING APPARATUS

Ernest A. Lowe, Cleveland Heights, Ohio, assignor to Automatic Sprinkler Company of America, Cleveland, Ohio, a corporation of Delaware

Application July 20, 1927. Serial No. 207,102
3 Claims. (Cl. 169—20)

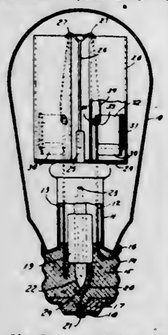
1. In a fire extinguishing apparatus, the combination with a system of dry piping having thermostatically controlled and normally closed outlets for the fire extinguishing medium in an area to be protected, a main valve controlling the admission of fire extinguishing medium to said piping and normally held closed by pressure of said medium supplied through a bypass around said main valve, a valve for relieving the bypass pressure provided through the bypass, pressure responsive means controlling the operation of

said last named valve and an air thermostat responsive to relatively sudden temperature changes in the fire zone and connected with said pres-



sure responsive means through independent piping and adjusted to cause operation of the relief valve in advance of the operation of the thermostatically controlled local outlet.

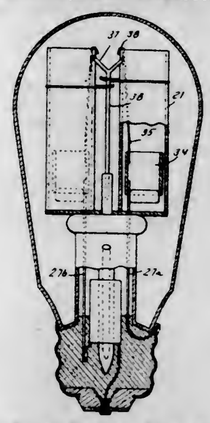
1,945,285
LOW VOLTAGE DISCHARGE TUBE
Raymond R. Machlett, Scarsdale, N. Y., assignor to Rainbow Light, Inc., Long Island City, N. Y., a corporation of New York
Application July 1, 1931. Serial No. 548,080
15 Claims. (Cl. 176—122)



1. An electric discharge tube which comprises an envelope containing a gaseous filling, a pair of electrodes mounted within the envelope, means within the envelope for prolonging the path of the discharge from one electrode to the other, and an electro-conductive element extending from one electrode to the other through the path of the discharge, the ends of said element being spaced a short distance from the electrodes.

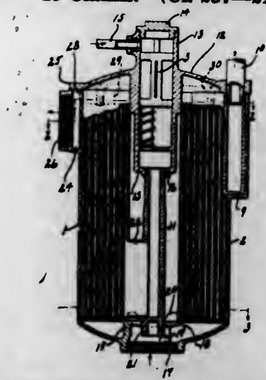
1,945,286
ELECTRIC DISCHARGE TUBE
Raymond R. Machlett, Scarsdale, N. Y., assignor to Rainbow Light, Inc., Long Island City, N. Y., a corporation of New York
Application July 1, 1931. Serial No. 548,081
18 Claims. (Cl. 176—122)

1. An electric discharge tube which comprises an envelope containing a gaseous filling, a pair of electrode within the envelope, a pair of tubes aligned with said electrodes and serving to prolong the discharge between the electrodes, said tubes opening into said envelope at a place remote from said electrodes, and a pair of electro-conductive elements, each connected electrically



to one electrode and extending along its tube and out into the envelope.

1,945,287
OIL COOLER
Leo M. Monroe, Cleveland Heights, Ohio
Application August 12, 1932. Serial No. 628,469
19 Claims. (Cl. 257—216)

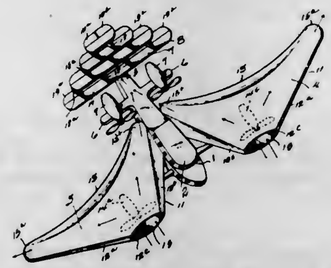


1. In a heat transfer device of the character described, a flat tubular conduit rolled upon itself in spiral form, a container therefor of generally cylindrical form, and having a removable end closure, said conduit having inlet and outlet connections for spiral flow therethrough, said connections being associated with said closure whereby said conduit coil is carried thereby and removable therewith, said container having connections for flow therethrough longitudinal of said conduit coil.

1,945,288
ZINC BASE ALLOY
Pascal J. Morell, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a corporation of Connecticut
No Drawing. Application July 9, 1931
Serial No. 549,804
3 Claims. (Cl. 75—1)

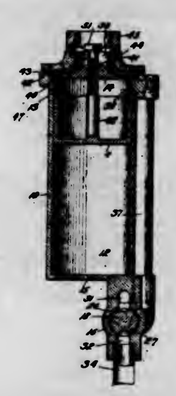
1. A zinc base alloy containing above 15 and up to about 35 percent of aluminum, about 0.01 to about 0.2 percent of magnesium, and the remainder zinc metal.

1,945,289
AEROPLANE
Alexandros Nicolatos, New York, N. Y.
Application March 16, 1932. Serial No. 599,255
6 Claims. (Cl. 244—18)



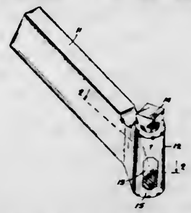
1. An aeroplane, comprising wings, a fuselage and control fins, said wings each having an air passage formed therein with a single inlet opening in the leading edge, and a pair of outlet openings one at each end of the wing; the volume of air admitted through the inlet opening being divided and exhausted respectively through the two outlet openings, a propeller assembly in each wing for sucking air into the wing and discharging the air from the wing, and said wings having a swept back conformation from an apical point at the inlet opening.

1,945,290
SEALING MEANS FOR CAN FILLING UNITS
Walter Page, Scarsdale, and John M. McClatchie, New York, N. Y., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey
Application July 16, 1932. Serial No. 622,876
3 Claims. (Cl. 221—103)



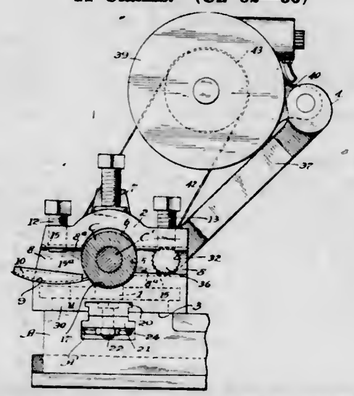
1. In an apparatus of the character described, a cylinder, a piston movable therein, a seat provided at one end of the cylinder, a cover closing the end of the cylinder and resting on the seat, an adjustable stop on the cover projecting into the cylinder to form an abutment for the piston, a sealing gasket resting on the end of the cylinder and closing the joint between the seat thereon and the cover resting on said seat, a cap resting on the gasket and means for clamping the cap against the gasket to compress the same.

1,945,291
TOOL HOLDER
John M. Palmer, Los Angeles, Calif.
Application March 12, 1930. Serial No. 435,217
1 Claim. (Cl. 29—96)



In combination, a tool holder comprising an integral rigid head having an opening therein, a longitudinally extending groove in each of a pair of opposite sides of the opening, said grooves being of uniform width in the direction of their depth, said pair of opposite sides of the opening each comprising surfaces extending laterally from the respective sides of the grooves, a tool shank adapted for reception in the opening, a projection on each of a pair of opposite sides of the tool shank, said projections being of uniform width in the direction of their projection from the tool shank and being adapted for sliding fit in the grooves, the tool shank having surfaces extending laterally from the respective sides of the base of each projection for engagement with the laterally extending surfaces of the opening, and a set screw carried by the head and extending into one of the grooves, the shank projection which is received in said groove having a surface adapted for abutment by the set screw for clamping the tool shank against the opposite grooved side of the opening.

1,945,292
TOOL HOLDER
John M. Palmer, Los Angeles, Calif.
Application September 23, 1931
Serial No. 564,566
11 Claims. (Cl. 82—36)

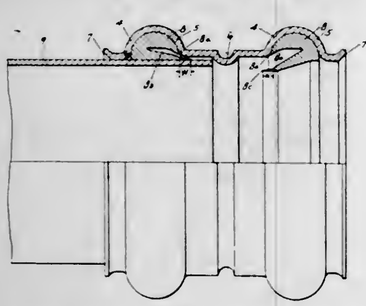


1. In combination, a tool holder having a recess open at one side, a tool having a shank adapted for reception in the recess, a groove in at least one of the walls of the recess which define its open side, and a rib so positioned on the tool shank that irrespective of the width of the shank the rib is adapted for reception in the groove with the inner surface of the shank adjacent the inner wall of the recess and the width of the shank

projecting laterally outwardly through the open side of the recess.

8. In combination, an integral rigid tool holder having a recess open at one side, a tool shank adapted for reception in the recess, a longitudinally extending groove in one of a pair of opposite walls of the recess which define its open side, said groove being of uniform width in the direction of its depth, the grooved wall of the recess comprising surfaces projecting laterally from the respective sides of the groove, a projection on the tool shank of uniform width in the direction of its projection from the tool shank and being adapted for sliding fit in the groove, the tool shank having surfaces extending laterally from the respective sides of the base of the projection for engagement with the laterally extending surfaces of the grooved wall of the recess, the projection being so positioned transversely of the tool shank that irrespective of the width of the shank the projection is adapted for reception in the groove with the inner surface of the shank clearing the inner wall of the recess and the width of the shank projecting laterally outwardly through the open side of the recess, and a set screw carried by the tool holder and extending into the other of said pair of opposite walls of the recess, the tool shank having a surface adapted for abutment by the set screw for clamping the tool shank against the grooved wall of the recess.

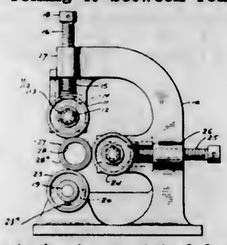
1,945,293
PIPE JOINT
Ralph H. Pierce, Eugene, Oreg.
Application October 13, 1931. Serial No. 568,582
1 Claim. (Cl. 285—193)



In a pipe joint, a sleeve member, an annular internal semi-circular section groove in said sleeve member, a cup-rubber adapted to bear in said groove and having approximate quadrants of said bearing of different radii, said cup-rubber including a dependent feather-edge lip to said cup, being thin and stretchable and adapted to conform closely to a rough surface of an inserted pipe prior to the application of internal fluid pressure.

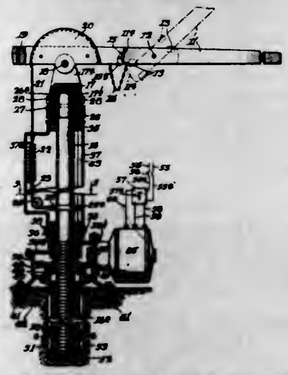
1,945,294
MANUFACTURING AND TESTING BEARINGS
Robert D. Pike, Diablo, Hugo John Stevenson, Oakland, and Otto M. Eash, Berkeley, Calif., assignors to Kalif Corporation, Emeryville, Calif., a corporation of Delaware
Application May 4, 1931. Serial No. 535,004
11 Claims. (Cl. 29—149.5)

3. The method of making a bearing bushing which comprises cast welding a layer of copper-lead bearing metal onto the inside of an iron or steel cylinder, cooling the compound article so formed, and rolling it between rollers pressing



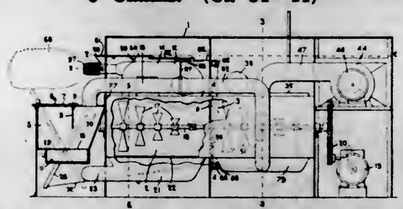
against the exterior iron or steel face thereof to relieve differential stresses in said article.

1,945,295
RAILWAY CROSSING GATE
Louis H. Pranger, Racine, Wis.
Application November 20, 1930
Serial No. 496,878
23 Claims. (Cl. 39—7)



1. The combination in a railway safety gate, of a gate bar, a single vertically disposed operating shaft, and means comprising a member carried by and rotatable on said shaft and adapted when operated to actuate said shaft for raising and lowering said gate bar.

1,945,296
APPARATUS FOR CLEANING AND STERILIZING FEATHERS
Frank I. Klayman, Newton, and Frederick R. Lawrence, Roxbury, Mass.; said Klayman assignor to Louis Gordon, Chelsea, Mass.
Application May 29, 1933. Serial No. 673,330
6 Claims. (Cl. 34—44)



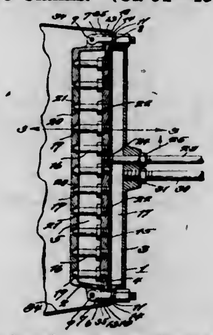
1. An apparatus for cleaning and sterilizing feathers comprising a dusting chamber and a sterilizing chamber separated by a partition, said partition provided with an opening, a closure whereby said opening may be closed or opened, a single blower effective to dust the feathers and

to discharge same through said opening into the sterilizing chamber and from the apparatus and having a suction inlet and a delivery outlet, means for connecting the delivery outlet either to the dusting chamber for dusting operations or to a bag supporting element for discharge of feathers, means by which feathers may be delivered to the suction inlet, and means connecting said inlet to the sterilizing chamber.

1,945,297
ALUMINUM ALLOY
Roland Sterner-Rainer, Heilbronn, Germany, assignor to American Lurgi Corporation, New York, N. Y., a corporation of New York
No Drawing. Application November 24, 1930, Serial No. 497,956, and in Germany December 4, 1929
7 Claims. (Cl. 148—21.1)

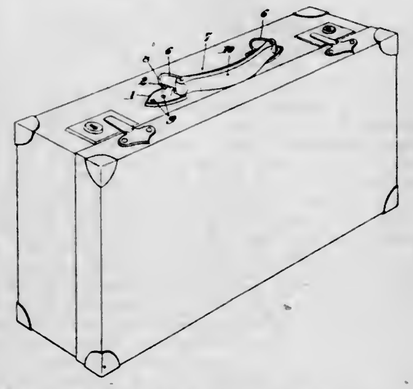
1. An aluminum alloy substantially devoid of copper and composed of from 0.8% to 6.0% of magnesium, from 0.6% to 6.0% of silicon, from 0.2% to 5% of at least one metal of the group consisting of manganese, nickel, cobalt, chromium, titanium and iron, and aluminum the remainder, said alloy being further characterized by increased tensile strength with simultaneous maintenance of high resistance to corrosion by means of a heat treatment consisting of heat treating the alloy at a temperature closely below the solidification point, quenching and finally aging at room temperature for a period of several days.

1,945,298
AIR BRUSH OR PAINT SPRAY DEVICE
John G. Schmidt, Camden, N. J.
Application September 21, 1931
Serial No. 564,159
5 Claims. (Cl. 91—45)



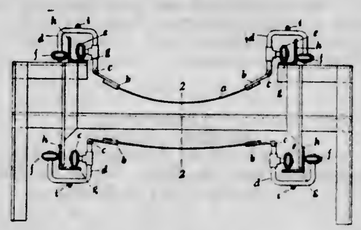
1. In an air brush or spray device, a head comprising a fluid reservoir section, an air reservoir section and an intermediate section, said fluid and air reservoir sections being assembled in relation forming reservoirs for fluid and air and provided with bottoms, a plurality of nozzles carried by the intermediate section and passing through the air reservoir and provided with tapered ends, the bottom of the air reservoir having tapered outlets, in which the tapered ends of the nozzles are spaced, the nozzles communicating with the fluid reservoir, means carried by the fluid reservoir section and passing through the other two sections for holding all three sections in register, and means carried by the air reservoir section and cooperating with the other two sections for locking the sections in register, and means for supplying the respective reservoirs with fluid and air, whereby the fluid may be sprayed or atomized upon a surface to be covered.

1,945,299
FITTING FOR HANDLES
Heinrich Sipöcz, Vienna, Austria
Application January 6, 1932, Serial No. 585,145, and in Austria November 24, 1931
1 Claim. (Cl. 190—58)



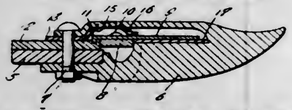
A fitting for handles comprising in combination a fitting plate, a hollow boss projected in the upper surface of the plate having upwardly and inwardly inclined side walls provided with opposed holes, the side walls of the boss terminating short of the side edges of the plate, an oblong connecting link including a straight end portion, inclined arms continuing therefrom, a rounded end portion connecting the arms, said rounded end portion being engaged through said holes so that the loop may be arranged vertically relative to the plate or horizontally of the plate and rest on the plate when in a horizontal position, and said holes being located at such a distance from the base of the fitting plate that in any of its positions the lowest part of the link is always supported on the fitting plate.

1,945,300
BELT OR BAND CONVEYER
Frederick Joseph West and Ernest West, Manchester, England, assignors to West's Gas Improvement Company Limited, Manchester, England, a British Company
Application March 8, 1932, Serial No. 597,586, and in Great Britain May 9, 1931
6 Claims. (Cl. 198—191)



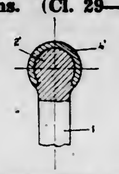
1. In band conveyers, the combination of a band, wheels associated with opposite edges of said band but otherwise unconnected with each other, and tracks for said wheels at such a distance apart that they allow said band to assume the desired shape or curvature in its carrying and return lengths, said tracks reacting to the pull of the band transmitted through said wheels.

1,945,301
GUARD FOR MOWING AND ANALOGOUS MACHINES
Ira Herbert Wilson, Montreal, Mo.
Application July 21, 1933. Serial No. 681,621
3 Claims. (Cl. 56—309)



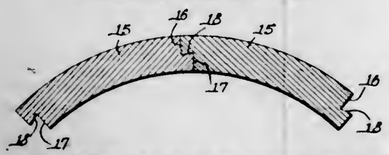
1. In a cutting mechanism for mowers and analogous machines, a stationary bar, guard fingers secured at their rear portions to said bar, and provided with ways, a reciprocatory bar operating within the ways of the guard fingers, a series of knives fixedly mounted on the reciprocating bar and having rear portions extending laterally of said bar and provided with depending flanges, a guide bar fixedly mounted on the stationary bar and having a groove adjacent its forward edge in which the depending flanges of said knives operate, and a keeper bar extending longitudinally of the guide bar and secured thereto, said keeper bar having an intermediate portion raised out of engagement with said knives, and a forward portion having resilient bearing engagement with said knives forwardly of the fixed mounting of the knives on the reciprocating bar.

1,945,302
PROCESS FOR MANUFACTURING MACHINE PARTS
Albino Zanzi, Ivrea, Italy
Application May 19, 1930, Serial No. 453,708, and in Italy May 22, 1929
2 Claims. (Cl. 29—148)



1. A process for manufacturing an elongated metallic element having an enlarged head with a covering of a different metal which comprises, reducing the diameter at one end of a stem an amount substantially equal to the thickness of said covering, rounding the end surface of said reduced portion, placing a thimble of a thickness somewhat greater than the thickness of the desired covering on said reduced portion of the stem, heating and upsetting said reduced portion and thimble simultaneously, so that said reduced end forms a spherical head and said thimble forms a relatively thin covering for said head.

1,945,303
BARREL STAVE
Lewis T. Baker, Jacksonville, Fla.
Application July 20, 1932. Serial No. 623,655
2 Claims. (Cl. 217—96)



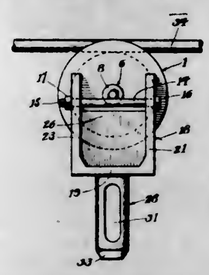
1. A container embodying staves, each stave having one of its outer longitudinal edges cut away defining an inner rib, the opposite edge of the stave having the inner longitudinal edge thereof cut away defining an outer rib, the inner edges of the ribs being inclined, and the inclined surfaces of adjacent staves closely engaging each other providing a fluid tight connection between the staves of the container.

1,945,304
COMBINED SERVICE COCK KEY AND CURB BOX CLEANOUT
Victor E. Beagle, Alexandria, Va.
Application December 30, 1931
Serial No. 583,986
3 Claims. (Cl. 7—1)



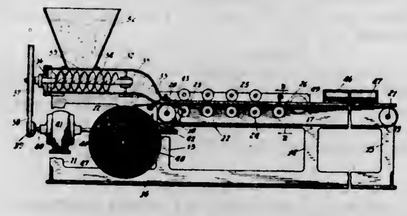
1. A combined key tunneling bar and cleanout for curb boxes comprising a shank having a key thereon, and a helicoidal blade pivoted on the shank movable from initial position close beside the shank to operative position extending laterally therefrom, the medial part of the blade being substantially horizontal in operative position, and having an upturned trailing edge portion, the key projecting below the blade and having jaws adapted to engage a cock handle and to operate as leading members for the blade.

1,945,305
CARRIER
Graham P. Crutchfield, Albany, Texas
Application June 28, 1932. Serial No. 619,790
2 Claims. (Cl. 308—7)



1. In a carrier, a horizontally disposed supporting plate, two spaced pairs of vertical arms, the arms of each pair being arranged in parallel spaced relation and integral at their lower ends with the upper face of said plate, the arms of each pair being free of connection to each other at their upper ends and each provided intermediate its ends with an opening, the openings in each pair of arms arranged in parallelism, and a removable track forming element mounted in the openings of the arms of each pair for bridging the space between the arms, said elements for supporting a reciprocatory rolling unit and arranged in parallel spaced relation.

1,945,306
MACHINE AND METHOD FOR PRODUCING WALL BOARD
John Dean, San Francisco, Calif.
Application May 24, 1932. Serial No. 613,187
10 Claims. (Cl. 154—1)



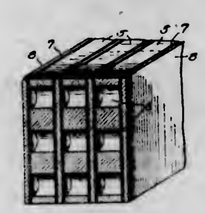
1. A machine of the class described for producing a continuous slab of composition wall board consisting of means for compressing and forcing the plastic material into ribbon form, means for rolling the same, means for corrugating one surface of the slab comprising a transversely oscillating comb capable of producing dove tail corrugations, and means for finally baking the compressed and corrugated slabs.

1,945,307
POLYMERIZATION OF ESTERS OF ETHYLENE DICARBOXYLIC ACIDS
Harry B. Dykstra, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 3, 1930
Serial No. 459,108
14 Claims. (Cl. 134—26)

1. A new composition of matter derived from the interpolymerization of an ester of an olefine dicarboxylic acid and another polymerizable substance of the class consisting of vinyl esters and styrene, said dicarboxylic acid being selected from the class consisting of fumaric, maleic, citraconic and mesaconic acids.

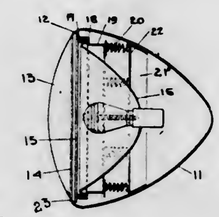
12. In a coating composition, a polymerized ester of an ethylene dicarboxylic acid selected from the class consisting of fumaric, maleic, citraconic and mesaconic acids.

1,945,308
CONSTRUCTION MATERIAL
Albert C. Fischer, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio
Application August 21, 1926. Serial No. 130,682
5 Claims. (Cl. 154—44)



1. A multiple layer resilient, board-like strip of constructional material comprising a core of superimposed bituminized sheets, some of which are imperforate and some of which are formed with a series of recesses, and surface layers for covering and reenforcing the core to provide a cellular structure.

1,945,309
LAMP
Roy W. Johnson, Cincinnati, Ohio, assignor to The Corcoran-Brown Lamp Company, Cincinnati, Ohio, a corporation of Ohio
Application August 6, 1932. Serial No. 627,776
4 Claims. (Cl. 240—41.5)



1. A lamp comprising a resilient metal casing having a circular open end, a closure within the casing and of a greater diameter than the open end, a shoulder on the closure spaced from the edge thereof and fitting the circular open end to hold the casing against distortion, and spring means within the casing adjacent the open end to retain the closure with its shoulder fitting the circular open end and operable to permit movement of the closure inwardly from the open end to withdraw the closure shoulder from the open end, whereby the casing may be distorted to change the open end to elliptic shape capable of permitting removal of the closure through the greater diameter of the elliptic opening thus produced.

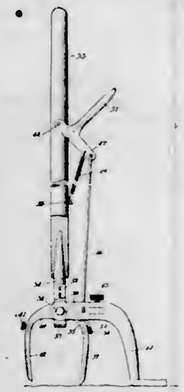
1,945,310
ESTERIFICATION OF CELLULOSE AND CELLULOSIC MATERIAL
Robert E. Fothergill and Frederick C. Hahn, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 25, 1932
Serial No. 613,550
20 Claims. (Cl. 260—101)

19. Cellulose esters prepared by esterifying cellulosic material with an acylating agent in the presence of a substantially anhydrous hydrohalogen acid in amount not less than the weight of cellulosic material used, said cellulosic material being selected from the class consisting of cellulose, cellulose ethers and cellulose esters and containing at least one esterifiable hydroxyl group.

1,945,311
AGRICULTURAL IMPLEMENT
Ernest B. Gustafson, New York, N. Y.
Application August 25, 1932. Serial No. 630,402
6 Claims. (Cl. 55—65)

1. An agricultural implement, comprising fixed and movable tool-end attaching members operatively connected with one another by a common hinge provision, exchangeable tool-ends secured to said members, a guard surrounding said hinge provision for protecting it against damage through forcible contact with earth, and for

limiting the penetration of the tool ends into the ground and spring means connected with said



movable member for keeping the latter in inoperative position.

1,945,312

PROCESS OF PREPARING DEHYDROROTENONE

Herbert L. J. Haller and Paul S. Schaffer, Washington, D. C.; dedicated to the free use of the public

No Drawing. Application April 10, 1933
Serial No. 665,445
6 Claims. (Cl. 260—123)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

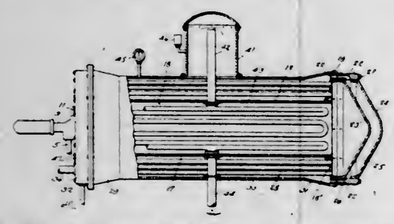
1. The process of making dihydrorotenone which comprises hydrogenating rotenone in the presence of a nickel catalyst.

1,945,313

STEAM GENERATOR

Harry W. Hoadley, Findlay, Ohio

Application March 28, 1933. Serial No. 663,201
4 Claims. (Cl. 122—24)



1. A steam generator including a combustion chamber, a valve for controlling the supply of air and fuel to said chamber; ignition means within the chamber, a boiler surrounding the chamber for holding water, a head closing each end of the boiler, said chamber opening into one of the heads, an annular flue outside of the other head, a water jacket embracing said flue and having an inlet port for feed water and an outlet port in communication with the boiler, there being an exhaust port in communication with said flue, and flues outside of the chamber and within the boiler and opening through the heads thereby to conduct hot products of combustion from within the chamber to the annular flue.

1,945,314

PROCESS FOR THE MANUFACTURE OF UREA

Max Hofsäss, Amsterdam, Netherlands, assignor to Naamlooze Vennootschap De Batsaafsche Petroleum Maatschappij, The Hague, Netherlands

No Drawing. Application November 2, 1929, Serial No. 404,522, and in the Netherlands November 13, 1928
7 Claims. (Cl. 260—125)

1. Process for the manufacture of urea characterized by heating an ammonia carbon dioxide compound mixed with an inert viscous liquid under such conditions of pressure and temperature that the compound is converted into urea.

1,945,315

FORMALDEHYDE CONDENSATION PRODUCT

Ralph A. Jacobson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 4, 1929
Serial No. 368,442
3 Claims. (Cl. 260—3)

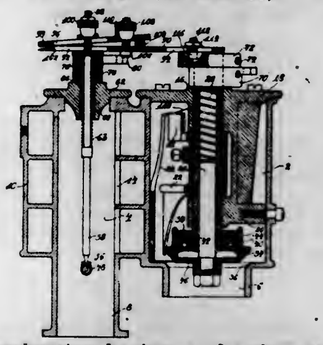
2. A condensation product of ammonium thiocyanate and formaldehyde, said product being soluble in acetone.

1,945,316

CARBURETOR

Harry A. Johnston, Redlands, Calif., assignor to Johnston Tractor Company, Ltd., Los Angeles, Calif.

Application May 9, 1933. Serial No. 670,198
21 Claims. (Cl. 261—50)



1. A carburetor having a chamber provided with a substantially unrestricted outlet adapted to be connected to an engine and an air inlet, means in front of said inlet to restrict the amount of air flowing into said chamber, means to impart a whirling motion to the air in said chamber, and means in said chamber to add fuel to the whirling air.

1,945,317

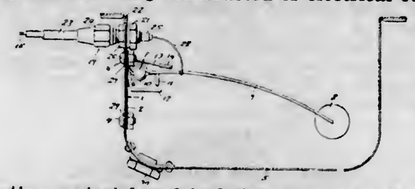
OIL LEVEL SWITCH

Josef Kalin, Lemoore, Calif.

Application June 20, 1933. Serial No. 676,747
2 Claims. (Cl. 200—84)

1. An oil level warning device for internal combustion engines comprising, a bracket mounted in the oil pan of the engine, said bracket including a metallic plate electrically engaged with the oil pan, aligned eyes struck from the plate, a ground arm struck from the plate, a stop projecting from the plate, a pin of insulating material mounted in the eyes, a rod mounted

for swinging movement on the pin, a float on said rod, said rod being constructed of electrical con-



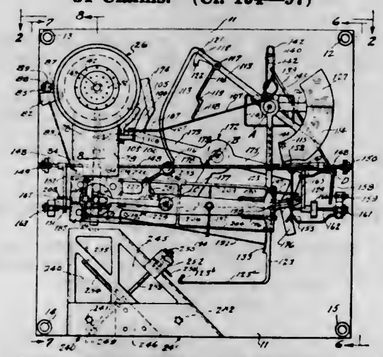
ducting material and including a contact finger engageable with the arm.

1,945,318

COMBINED PREVENTIVE MEANS FOR CHECK CONTROLLED APPARATUS

Aaron A. Knee, Charlotte, N. C., assignor to Vanak Corporation, Charlotte, N. C., a corporation of North Carolina

Application March 5, 1930. Serial No. 433,460
31 Claims. (Cl. 194—97)



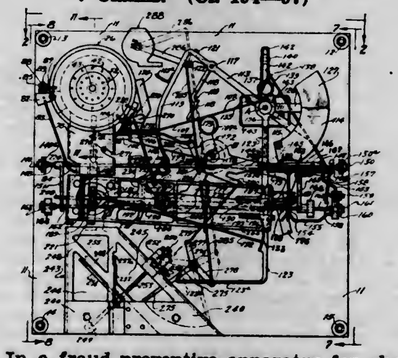
30. Coin selecting apparatus including mechanism comprising a balance frame oscillatory for gauging the weight of a deposited coin, in combination with mechanism comprising coin shiftable members mounted on the balance frame for simultaneously gauging the thickness of the coin.

1,945,319

FRAUD PREVENTIVE DEVICE FOR CHECK CONTROLLED APPARATUS

Aaron A. Knee, Charlotte, N. C., assignor to Vanak Corporation, Charlotte, N. C., a corporation of North Carolina

Application June 14, 1930, Serial No. 461,099
Renewed May 24, 1933
7 Claims. (Cl. 194—97)



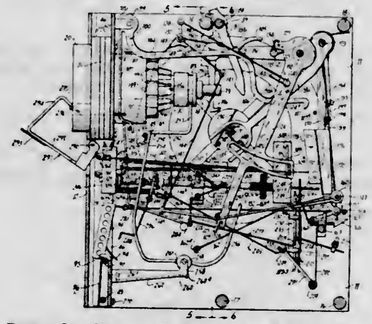
1. In a fraud preventive apparatus for check controlled apparatus, a check testing device, means for receiving a check and passing the same to the check-testing device, means operable by the insertion of a second check if the first check fails to go through the testing device to clear the entire testing device and return first check to the exterior of the machine.

1,945,320

CHECK TESTING MEANS FOR CHECK CONTROLLED APPARATUS

Aaron A. Knee, Charlotte, N. C., assignor to Vanak Corporation, Charlotte, N. C., a corporation of North Carolina

Application May 6, 1931. Serial No. 535,494
15 Claims. (Cl. 194—97)



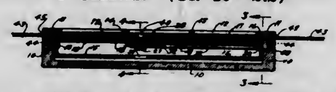
1. In a check or coin tester and the like, a balancing beam weighing the check and means contained in the balancing beam for subjecting the check to a plurality of measuring tests while the same is being weighed, and means controlled independently by the balancing beam and the measuring means for disposing of said check after it leaves the balancing beam.

1,945,321

TITLE CARD HOLDER

Aaron A. Knee and Paul B. Eaton, Charlotte, N. C., assignors of one-third to S. A. Van Every, Charlotte, N. C.

Application June 23, 1931. Serial No. 546,410
8 Claims. (Cl. 40—2.2)



8. In a title card holder, a casing and a lid for said casing, means mounted beneath the lid and supported by the lid for engaging the interior of the casing for locking the lid on the casing, a transparent portion in said lid, a card support mounted in spaced relation from said transparent portion, said support and said transparent portion having at least one pair of coinciding perforations therein, through which access to said locking means may be obtained after perforation of said card to move said locking means to unlocking position.

1,945,322

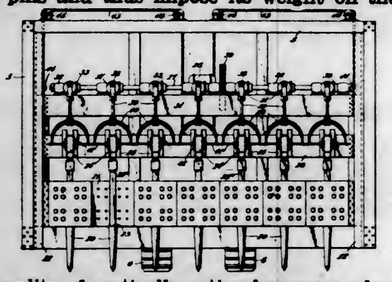
COAL PINNING AND BREAKING MACHINE

Alphonse Joseph Lafayette, Jr., Pittsburg, Kans.

Application December 29, 1932
Serial No. 649,437
5 Claims. (Cl. 262—18)

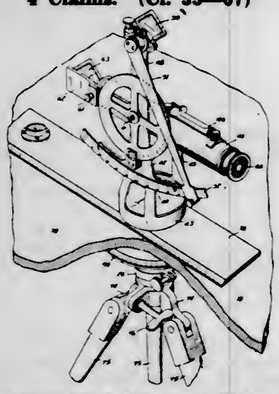
1. A pinning and breaking machine comprising, in combination, a frame; a guided beam movable vertically along the frame; a plurality of vertical pins movable freely through the beam

but guided thereby, each of said pins having a shoulder whereby the beam may engage the several pins and thus impose its weight on them;
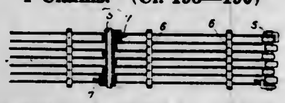


a plurality of vertically acting hammers adapted to strike the upper ends of the pins; and power-actuated means to actuate the hammers.

1,945,323
SURVEYING INSTRUMENT
Myron H. Lewis, New York, N. Y.
Application July 1, 1930. Serial No. 465,107
4 Claims. (Cl. 33—67)



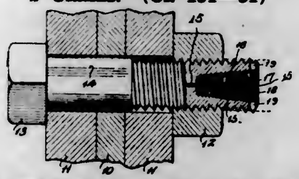
1. In a surveying instrument, the combination of a plane table, a tripod, a hollow stud mounted in said tripod, a vernier plate having a depending sleeve surrounding said stud, means to clamp said sleeve on said stud, an alidade standard, a ruler detachably secured to the base of said standard and adapted to rest on said table, a screw pin passed through said hollow stud, said table and said base each having a threaded hole to receive said pin alternatively, a telescope pivoted in said standard, a horizon mirror in the plane of the telescope eyepiece, an index mirror directly over the pivot of the telescope, a swinging arm connected to said index mirror, and a graduated arc on said standard over which said arm plays, whereby the instrument can be used as a transit, a plane table, or a sextant.

1,945,324
CONVEYER
Wilhelm Löbbe, Westphalia, Germany
Application February 10, 1932, Serial No. 592,088, and in Germany February 18, 1931
4 Claims. (Cl. 198—190)



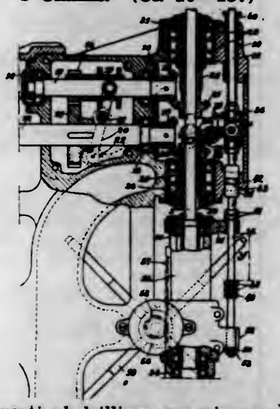
1. A conveyer for material in bulk, comprising the combination with a chute of a rope conveyer band composed of a plurality of sections, each comprising a plurality of lengths of rope and transverse spacing members connected to said lengths of rope at definite distances apart so as to hold the lengths of rope in spaced relationship to one another said rope conveyer band being arranged in the chute so as to be capable of travelling therein.

1,945,325
NUT LOCK
Harry P. Lloyd, Wilmington, Del.
Application September 30, 1931
Serial No. 566,111
2 Claims. (Cl. 151—31)



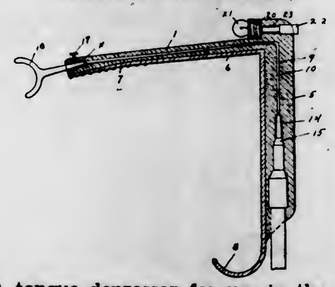
2. In a nut lock of the character described, a split end bolt having an axial, threaded, arcuately shaped, and diametrically slitted recess, the radii of curvature of the portions of said recess near said diametrical slits being greater than the radii of said recess perpendicular to the plane through said slits.

1,945,326
MACHINE FOR DRILLING, SCREWING, AND TAPPING
Pierre Edmond Adolphe Marchal, Paris, France
Application April 20, 1932, Serial No. 606,429, and in France April 22, 1931
4 Claims. (Cl. 10—137)



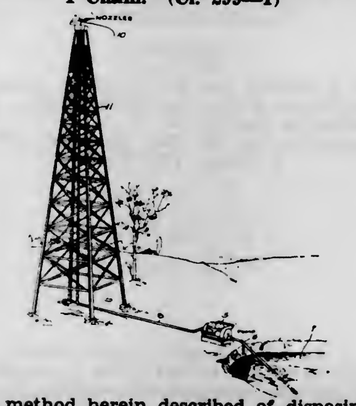
1. In a vertical drilling, screwing and tapping machine of the type described, the combination of a tool spindle with a reversing drive having a clutch dog gear splined to the tool spindle and carried by a rockable fork, a buckle pivoted to the fork and carrying two vertically aligned rods, a spring coiled on the upper rod and urging the dog gear into position for rotating in the one direction, a locking mechanism carried by the lower rod and holding said dog gear in position for rotating the spindle in the opposite direction against the action of the spring, a plurality of abutments adjustable along the lower rod, and a trip rigidly connected to the spindle and adapted to co-operate with said abutments for releasing the locking mechanism and shifting the dog gear after a predetermined operative stroke of the spindle.

1,945,327
COMBINED TONGUE DEPRESSOR AND ELECTRODE FOR ELECTROCOAGULATION OF TONSILS
Willis B. Morse, Washington, D. C.
Application June 30, 1932. Serial No. 620,259
12 Claims. (Cl. 174—89)



1. A tongue depressor for use in the electrocoagulation method of removing tonsils having an inactive electrode secured thereto and means carried by the tongue depressor for conducting electrical current to said electrode.

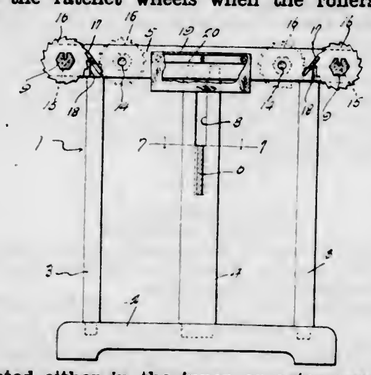
1,945,328
METHOD OF DISPOSING OF NUISANCE LIQUIDS
Joseph M. Perkins, Eastland, Tex.
Application March 2, 1933. Serial No. 659,427
1 Claim. (Cl. 299—1)



The method herein described of disposing of nuisance brines consisting in forcing the entire body of liquid to be disposed of to an elevated point and there sufficiently comminuting all the liquid to produce a fog-like buoyant mist which will be carried away by the prevailing natural air currents.

1,945,329
QUILTING FRAME
Bethel E. Price, Charleston, W. Va.
Application June 16, 1933. Serial No. 676,181
1 Claim. (Cl. 45—24)

A quilting frame comprising a pair of spaced, opposed end frames, said end frames having inner and outer openings therein, rollers extending between the end frames, trunnions on the ends of the rollers engageable selectively in the inner or outer openings, means for securing the quilt to the rollers for winding thereon, ratchet wheels fixed on the rollers, and spring actuated pawls pivotally mounted, at an intermediate point, on the end frames and operatively engageable with the ratchet wheels when the rollers are

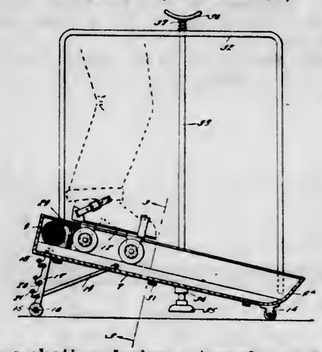


mounted either in the inner or outer openings for retaining said rollers against retrograde rotation.

1,945,330
RAYON FIBER AND METHOD OF TREATING THE SAME
Gustav Jean Nord, Gastonia, N. C.
No Drawing. Application February 21, 1931
Serial No. 517,639
2 Claims. (Cl. 19—66)

1. The method of treating viscose "Rayon" staple fibers which consists in placing the mass of staple fibers in a vat containing water in which there is placed substantially two pounds of olive oil and palm oil to every one hundred pounds of the fibers, the bath also containing substantially two pounds of salt, heating the bath to substantially 130°, and agitating the mass for approximately twenty minutes, subjecting the mass to a squeeze roll to set the kinks and to squeeze the mass into a mat-like form, subjecting the mat to a fluffing machine, and then subjecting the mass to a drier the temperature of which is substantially 180°.

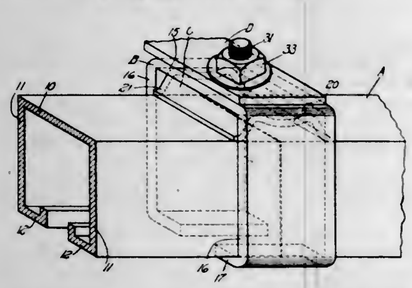
1,945,331
SKATING DEVICE
Everette Elmo Rieder, Cleveland, Ohio
Application October 10, 1932. Serial No. 637,170
7 Claims. (Cl. 208—174)



1. In a skating device, a trough provided with guide rails, a skate operable within the trough and having the rollers thereof engaging said guide rails, in a manner to prevent casual removal of the skate from the trough, extensible means connected with the skate and normally

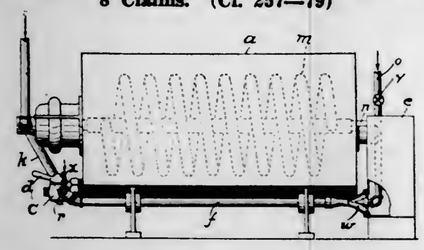
urging the same towards one end of the trough, rollers supporting the trough at the front and rear ends thereof, means connected with the rollers at the rear end of the trough for supporting the trough at a desired angular adjustment relative to the ground, a guard rail rising from the trough at one side thereof, and a vertically shiftable ground engaging member supported by said guard rail, and normally disposed out of ground engaging position.

1,945,332
TRACK SUPPORT
David M. Robinson, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application May 25, 1931. Serial No. 539,835
6 Claims. (Cl. 16—94)



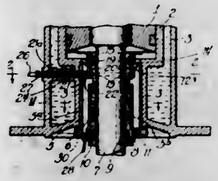
1. Supporting means for tracks comprising a support having a flange on which the track is adapted to rest and a top wall, a clamping member engaging the underside of said top wall and having a portion adapted to be drawn towards said top wall and another portion arranged to move downwardly into engagement with the top of the track when the first portion is drawn upwardly, and a bolt engaging said first portion of the clamping member and extending through said top wall and adapted when tightened up to draw said first mentioned portion towards the top wall.

1,945,333
MILK PASTEURIZER
William Sangster, Peterborough, Ontario, Canada, assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application January 6, 1932. Serial No. 584,959
8 Claims. (Cl. 257—79)



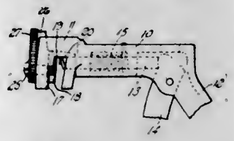
1. The combination with a milk pasteurizing vessel, an outlet therefrom, and means to establish a comparatively rapid endless circulation of heating fluid through the interior of said vessel and around such outlet and to arrest said rapid endless circulation, of means to apply heat locally to the heating fluid and establish a relatively limited flow of such fluid around said outlet after said rapid endless circulation has been arrested.

1,945,334
INJECTION ENGINE
Lawrence Y. Spear, New London, Conn., assignor to Electric Boat Company, Groton, Conn., a corporation of New Jersey
Application March 25, 1932. Serial No. 601,083
7 Claims. (Cl. 123—32)



1. In combination in an injection engine, a cylinder, a head at one end of the cylinder, a stuffing box structure mounted in said head and comprising a hollow casing provided at its inner portion with fuel passages opening through its inner end, a piston operating in the cylinder, a piston rod connected to the piston and operating through the stuffing box structure, means for supplying fuel to said passages, and injection nozzles communicating with the fuel supply passages and discharging into the cylinder.

1,945,335
SAW SET
Austin L. Stowell, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application May 28, 1931. Serial No. 540,660
1 Claim. (Cl. 76—69)

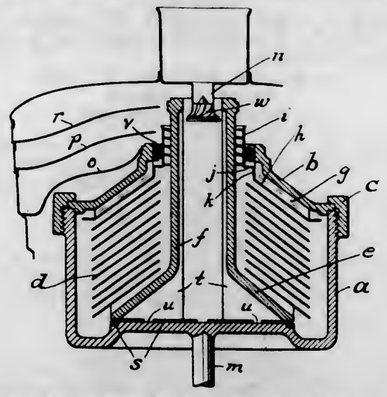


In a saw set, a frame having a boss, an anvil adjustable relative to said frame, a movable cam plate supported and guided by said boss and having a cam slot therein, a screw carried by said anvil for clamping said anvil against the frame, said screw passing through the boss, the frame, and the cam slot and adapted to have its head engaging said cam plate to clamp the same against said boss.

1,945,336
CENTRIFUGAL SEPARATOR BOWL
George J. Strezynski, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application August 1, 1930. Serial No. 472,277
9 Claims. (Cl. 233—46)

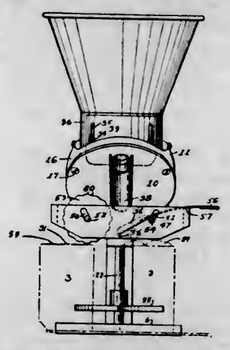
1. In a centrifugal bowl provided with a separating chamber of relatively large diameter in which substances of different specific gravities are adapted to be separated and provided with a cylindrical discharge neck of relatively small diameter through which one of the separated substances is adapted to be discharged, means, rotatable with said bowl and neck and extending

along said neck, providing a plurality of helical discharge passages through which the outflowing



separated substance is constrained to flow in said neck.

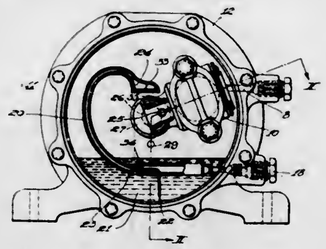
1,945,337
DISPENSING APPARATUS FOR DISPENSING TABLETS TO HEAPING FULL CONTAINERS
Gerhart S. Suppiger and Clyde Alexander, Belleville, Ill., assignors to Scientific Tablet Company, Belleville, Ill., a corporation of Illinois
Application March 13, 1931. Serial No. 522,215
4 Claims. (Cl. 226—2)



4. In an apparatus of the class described, the combination with means for moving filled containers in succession, of a pivoted chute directed downwardly toward the line of travel of the container and adapted to deliver tablets in succession, and a mechanical depressing device adapted to engage the contents of the container and to depress the tablet into the body thereof after the same has been deposited upon the upper surface of the contents of the container.

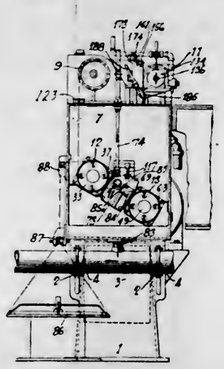
1,945,338
PUMPING UNIT FOR REFRIGERATING APPARATUS
Matson C. Terry, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application June 13, 1931. Serial No. 544,264
4 Claims. (Cl. 230—58)

1. In a compression type refrigerator, a compressor having parts requiring lubrication, a casing for the compressor, a lubricant reservoir formed by the casing, means providing a suction passage for the compressor including a conduit and an injector for supplying lubricant from the



reservoir to the conduit and motivated by gaseous media passing therethrough, said conduit being arranged to supply lubricant to said compressor parts.

1,945,339
WIREDRAWING MACHINE
Charles E. Traxel, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application November 13, 1929
Serial No. 406,757
4 Claims. (Cl. 205—16)

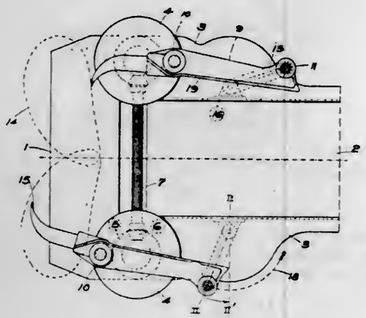


1. In a wire-drawing machine, a member about which the wire is passed comprising a plurality of idlers, a rotatable, tubular, supporting shaft therefor, means for rotatably supporting said shaft, and driving means for rotating said shaft extending therethrough.

1,945,340
GATHERING ORGANIZATION FOR LOADING MACHINES
Einar M. Arentzen, Franklin, Pa., assignor to Joy Manufacturing Company, Franklin, Pa., a corporation of Delaware
Original application April 25, 1933, Serial No. 668,046. Divided and this application July 27, 1933. Serial No. 682,419
4 Claims. (Cl. 198—10)

1. In a gathering organization for loading machines, a conveyor frame, a conveyor carried by and operative in said frame, a deck plate positioned laterally of said conveyor, a rotatable disc adjacent the receiving end of said conveyor, with its upper face flush with said plate, a crank pin

carried by said disc, a gathering arm operably connected adjacent one of its ends to said pin with its lower face in close proximity to the adjacent face of said disc, and a delineator arm



connected at one of its ends to the other end of said arm, the other end of said delineator arm extending beneath said plate and connected to a pivotal point thereunder.

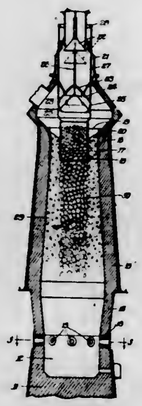
1,945,341

REDUCTION AND SMELTING OF ORES

Herman A. Brassert, Chicago, Ill., assignor to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois

Application August 27, 1931. Serial No. 559,612

11 Claims. (Cl. 75—17)



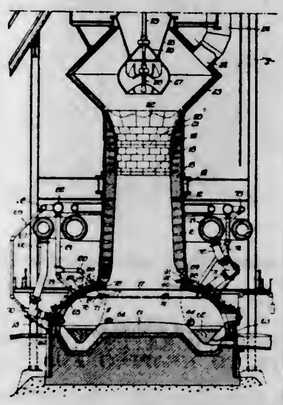
4. The method of producing in a shaft furnace a metal low in carbon from iron ores which comprises separating the ore into coarser and finer ore portions, thereafter separately charging small fuel mixed with the finer portion of the ore into the vertically extending portion of the furnace adjacent the walls, charging the coarser ore substantially free of fuel into the vertically extending central portion of the furnace, and reducing and smelting both coarse and fine ores in a single furnace operation.

1,945,342

APPARATUS FOR PRODUCING LOW CARBON METALS

Herman A. Brassert, Chicago, Ill., assignor to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois

Application September 13, 1932
Serial No. 632,988
3 Claims. (Cl. 266—24)



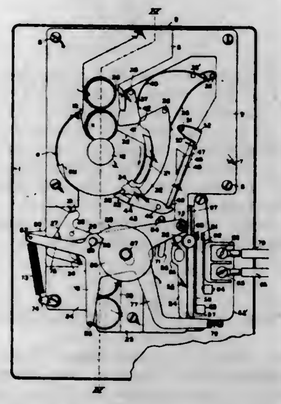
3. A metallurgical furnace having a hearth portion and a smaller superposed shaft portion connected to the upper portion of the hearth, a water cooled ring for supporting the shaft portion independently of the hearth, and means below the water cooled ring movable into and out of the lower end of the shaft to modify the effective passage area between the shaft and hearth.

1,945,343

COIN CONTROLLED SWITCH

Benjamin Clayton, Sugarland, Tex., and Elmer L. Lipp, Los Angeles, Calif.; said Lipp assignor to said Clayton

Application May 23, 1932. Serial No. 612,962
8 Claims. (Cl. 194—9)



1. A time switch including switch contacts; coin controlled means for operating said switch contacts; a coin chute; means for delivering a coin from said chute into said coin controlled operating means; resilient means adapted to be tensioned by the operation of said coin delivery means; and timed means driven by said resilient means for ejecting said coin after a predetermined interval.

1,945,344

BLASTING EXPLOSIVE

Willard de C. Crater, Succasunna, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 22, 1930
Serial No. 497,608
8 Claims. (Cl. 52—5)

1. A blasting explosive including as ingredients nitrolactose in crystalline form, and an explosive salt and an oxidizing salt.

1,945,345

IMPROVED CHEESE PRODUCT AND PROCESS FOR PRODUCING THE SAME

Albert K. Epstein and Benjamin R. Harris, Chicago, Ill.

No Drawing. Application August 15, 1930
Serial No. 475,632
14 Claims. (Cl. 99—11)

1. A process of treating cheese which includes the step of adding thereto a relatively small quantity of a diketone.

1,945,346

BAKED FLOUR PRODUCT AND PROCESS FOR MAKING THE SAME

Albert K. Epstein and Benjamin R. Harris, Chicago, Ill.

No Drawing. Application August 15, 1930
Serial No. 475,633
10 Claims. (Cl. 99—10)

1. A process for producing an improved baked flour product, which includes the step of adding thereto a relatively small amount of a diketone having the general structure

in which "R" and "R'" stand for ethyl, methyl, propyl and similar groups, and in which the groups R and R' taken together contain at least two carbons but not more than six, and in which the carbonyl groups are adjacent to each other.

1,945,347

MARGARINE WITH IMPROVED FLAVOR AND PROCESS

Albert K. Epstein and Benjamin R. Harris, Chicago, Ill.

No Drawing. Application August 15, 1930
Serial No. 475,634
11 Claims. (Cl. 99—13)

1. As a new article of manufacture, oleomargarine having included therein a relatively small proportion of a diketone having the general structure



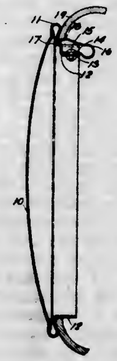
wherein "R" and "R'" represent ethyl, methyl, propyl or similar groups, and in which the R and R' groups taken together contain not less than two carbon atoms, nor more than six, and in which the carbonyl groups are adjacent to each other.

1,945,348

HUB CAP CONSTRUCTION

Warren H. Farr, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 12, 1931. Serial No. 556,489
7 Claims. (Cl. 301—108)



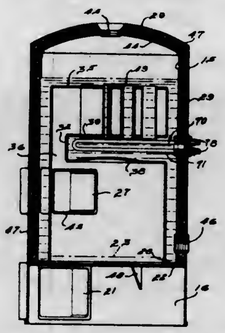
1. A hub cap comprising a radially extending closure plate and a series of U shaped spring clips secured to said closure plate and having their bights extending axially inwardly, an arm of each of said clips being adapted to snap behind a hub portion of a wheel to effect the securement of the plate to the wheel.

1,945,349

BOILER CONSTRUCTION

James A. Ford, Birmingham, Mich.

Application April 1, 1931. Serial No. 526,965
8 Claims. (Cl. 122—166)



1. A heat interchanger for a boiler including, in combination, an enclosure member having a chamber and being provided with a wide opening in one end, constituting a passage for the ingress of the combustible gases, and an oppositely disposed opening for the egress of the gases, hollow members extending through said enclosure member, having arcuate sides, the adjacent sides of adjacent members being struck from the same center and arranged to provide passages having uniform cross sections, the opposite sides of said adjacent members being struck from different centers to cause said passages to converge toward said second-named opening.

1,945,350
EXTRACTION AND DEWAXING OF LUBRICATING OILS

Francis X. Govers, Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill., a corporation of Maine

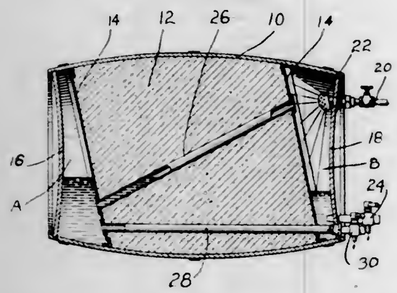
No Drawing. Application April 20, 1931
Serial No. 531,597
4 Claims. (Cl. 196—17)

1. The process of manufacturing low cold test lubricating oil which comprises mixing a wax-bearing mineral oil with acetone and benzol in such a ratio to each other and to the said mineral oil that the acetone and benzol together at temperatures of approximately 100° F. have substantially complete solvent action on such wax-bearing mineral oil and at temperatures of —5° F. and below, have substantially complete solvent action on the liquid hydrocarbons therein but substantially no solvent action on the solid hydrocarbons therein and upon removal of solid hydrocarbons and the acetone and benzol such mineral oil has a cold test of substantially the same as the temperature of the mixture at the time of the removal of the solid hydrocarbons, cooling the mixture to a temperature at which a concentrate comprising wax and hydrocarbons of relatively flat viscosity-temperature relationship is formed, filtering from the mixture the mother liquor of solvent liquid and dissolved oil, mixing the resulting concentrate with additional cool solvent, introducing the mixture to filtering means, filtering from the mixture the solvent liquid and dissolved oil, and removing adhering and entrained liquid hydrocarbons from the cake by washing the cake, in situ, with solvent liquid.

1,945,351
SOAP DISPENSER

Corydon M. Grafton, Rochester, N. Y., assignor to Foster D. Snell, Inc., Brooklyn, N. Y., a corporation of New York

Application February 12, 1932. Serial No. 592,545
7 Claims. (Cl. 299—83)

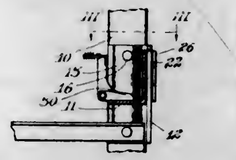


1. A soap and water mixer comprising a container, a mass of soap therein substantially filling the central portion of the container, the soap and the ends of the container forming separate compartments at each end, means to introduce water into one compartment, a transverse conduit through the soap extending from one compartment to the other and means to introduce water from one compartment to the other compartment, said water forming a soap solution of one concentration in one compartment and a second soap solution of a different concentration in the other compartment, and means to withdraw said solutions.

1,945,352
DETACHABLE CONNECTING MEANS

Alex F. Hillstrom and Victor Petterson, Chicago, Ill., assignors to Henry B. Floyd, Chicago, Ill.

Application June 25, 1927. Serial No. 201,314
7 Claims. (Cl. 5—294)

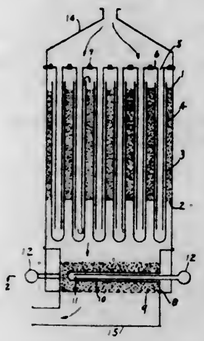


6. Complemental members comprising plates, one of said plates having a slot to slidably receive the other of said plates, and a plurality of alternately arranged members having portions thereof projecting beyond the edge of said other plate to define a guideway for said slotted plate.

1,945,353
CATALYTIC APPARATUS

Alphons O. Jaeger, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware

Application December 22, 1928
Serial No. 327,853
8 Claims. (Cl. 23—288)



1. Catalytic apparatus comprising in combination an automatic gas cooled converter containing a catalytic chamber, a catalyst layer therein, heat exchanging elements at least partially embedded in the catalyst layer, means for causing reaction gases to circulate through the heat exchanging elements out of direct heat exchanging relation with the catalyst, means for causing the gases to reverse their flow in the heat exchanging elements and to pass in reverse flow through portions of the elements in direct heat exchanging contact with the catalyst, means for deflecting gases issuing from the heat exchanging elements through the catalyst, a converter provided with positive cooling means at least partially embedded in the catalyst operated by a cooling medium other than the reaction gases issuing from the first converter, and means for causing the reaction gases to pass in series first through the automatic gas-cooled converters and then through the last named converter.

1,945,354
OXIDATION OF MONONUCLEAR AROMATIC HYDROCARBONS

Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware

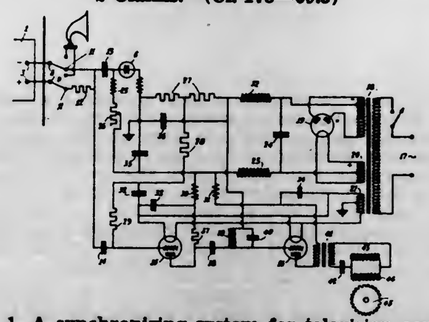
No Drawing. Application February 8, 1930
Serial No. 427,063
9 Claims. (Cl. 260—116)

1. A method of oxidizing mononuclear aromatic compounds to intermediate oxidation products, which comprises vaporizing the compounds admixing them with an oxygen containing gas containing more than sufficient oxidation to oxidize the whole of the aromatic compound to the intermediate oxidation product and passing the mixture at reaction temperatures through a series of converters containing a catalyst favoring the oxidation of carbon atoms of the aromatic nucleus, the converted product being condensed out after leaving each converter, and uncondensed gases without addition of further oxygen-containing gas passing in series through the next converter.

1,945,355
SYNCHRONIZING SYSTEM

Friedrich Klaiber, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application May 12, 1931, Serial No. 536,714, and in Germany April 25, 1930
2 Claims. (Cl. 178—69.5)



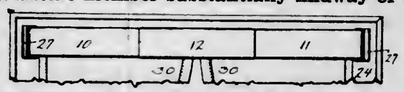
1. A synchronizing system for television comprising an image reproducing device, means for rotating the image reproducing device and a synchronizing device for controlling the rotation of the driving element for rotating the image reproducer, means for receiving combined image and synchronizing signals, means for supplying the received signals to said image reproducing device to produce electro-optical reproductions thereof, a vacuum tube circuit connected with said synchronizing device, means for supplying the received signals also to said vacuum tube circuit, a portion of said vacuum tube circuit tuned to said synchronizing signals, and means including a portion of the said synchronizing device connected with the said vacuum tube circuit for separating said synchronizing signals from said image signals.

1,945,356
WINDOW FIXTURE

Florence Hale Naftzger, Sioux City, Iowa

Application June 27, 1931. Serial No. 547,278
1 Claim. (Cl. 156—13)

A decorative window cornice comprising a pair of plates positioned in overlapping arrangement and longitudinally aligned, said overlapping portions being slotted, and a buckle including a flat buckle member engaged against the front side of one of the plates, a threaded stud secured to said buckle member substantially midway of the

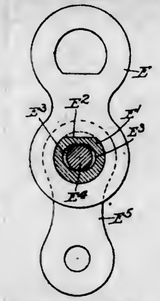


ends thereof and received through both of said slots, a nut threaded upon said stud and engaging the under side of one of the plates and loops formed on said buckle member and embracing the plates at a distance on either side of the stud.

1,945,357
CHAIN

Harold S. Pierce, Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois

Application May 16, 1931. Serial No. 537,842
20 Claims. (Cl. 74—32)

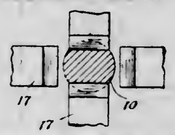


1. In combination in a chain, a plurality of links, means for joining them, the joining means including a sleeve and a pin therein, the clearance between the sleeve and pin increasing outwardly, the greatest clearance being provided in a line transverse of the longitudinal axis of the chain as to permit limited relative twisting of adjacent links, and being such as to prevent bending in the plane in which the chain lies.

1,945,358
METHOD OF FORMING CHAPLETS AND THE LIKE

Charles Greif Raible, Shaker Heights, Ohio, assignor to The Fanner Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application March 21, 1928. Serial No. 263,382
6 Claims. (Cl. 78—81)



1. The method of making chaplets having a head and stem portion, which comprises producing a portion of reduced transverse area on the stem which is rendered brittle due to the fact that the material adjacent the reduced portion has been stressed beyond its elastic limit.

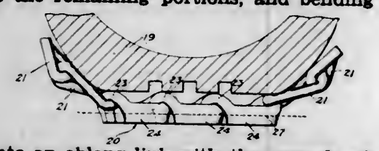
1,945,359
METHOD OF MAKING TIRE CHAINS

Harry D. Weed, Southport, Conn.

Original application June 20, 1932, Serial No. 618,203. Divided and this application May 24, 1933. Serial No. 672,613
12 Claims. (Cl. 59—35)

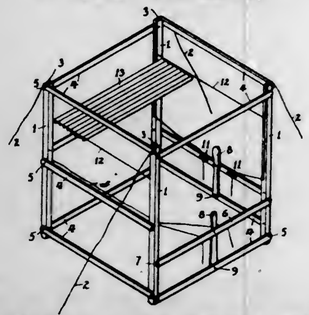
1. The method of making a link for a tire chain cross member which comprises forming spaced

notches in one side of a bar to provide reduced portions, curving the reduced portions upward above the remaining portions, and bending the



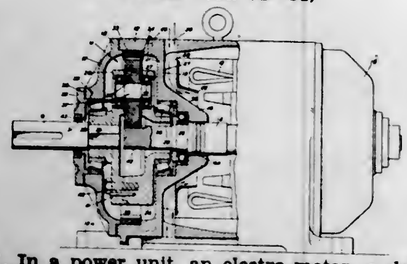
bar into an oblong link with the curved reduced portions forming the ends of the link and the unreduced portions the side members of the link.

1,945,360
BATHING TENT AND THE LIKE
Alfred Abraham and Raymond Alfred Manning Cheek, County of Kent, England
Application May 11, 1933, Serial No. 670,472, and in Great Britain July 4, 1932
2 Claims. (Cl. 135—5)



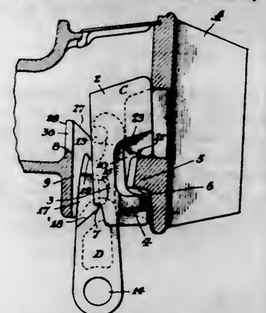
1. Sun bathing tent comprising a frame consisting of four corner posts carrying stay guides adjacent the top thereof, top and bottom transverse members between said posts, clips mounted on said frame, stay cords passing through said guides on the tops of the several posts and held in said clip members, pivotal connections between the transverse members and said posts, auxiliary transverse members at two adjoining sides pivoted to the corner posts, a lever pivoted on each of said auxiliary members and the adjacent bottom transverse member for tilting the tent to any angle after the release of the stay cords.

1,945,361
MOTOR SPEED REDUCER
Russell C. Ball, Philadelphia, Pa.
Application November 11, 1932
Serial No. 642,155
4 Claims. (Cl. 74—34)



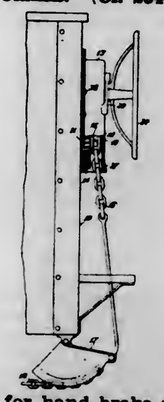
1. In a power unit, an electro-motor, a driving shaft impelled by said motor, a co-axial driven shaft, a speed reduction gearing for said driven shaft of the planetary type having a rotary gear carrying planetary gears, a unitary housing for accommodating said motor and said gearing, a bearing supporting hub fixed within and integral with said housing extending into said motor, an endplate for the gear end of the housing, opposed tapered roller bearings mounted in said bearing support and in said endplate respectively, said roller bearings adapted to operatively support said gear cage, and an auxiliary cover upon said endplate adapted to retain said gear cage and its tapered roller bearings in correct operating relationship with the surrounding stationary parts of the housing.

1,945,362
CAR COUPLER
Arthur James Baxeley, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application January 22, 1929. Serial No. 334,177
9 Claims. (Cl. 213—148)



1. In a car coupler, a head including a ledge, a knuckle, a lock therefor, said lock having a foot engageable with said ledge on the coupler-head, an inclined surface on said coupler-head cooperating with a portion of said lock for causing shifting of said foot into overlapping relation to said ledge, and an extension of said surface having a greater inclination and cooperating with another portion of said lock for shifting the latter forwardly during the descent thereof.

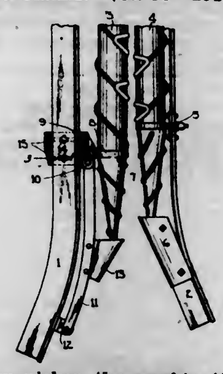
1,945,363
HOUSING FOR RAILWAY CAR HAND BRAKE MECHANISM
Richard W. Burnett, Chicago, Ill.
Application May 20, 1933. Serial No. 672,001
10 Claims. (Cl. 254—1)



1. A housing for hand brake winding mechanism comprising a back plate and an outwardly

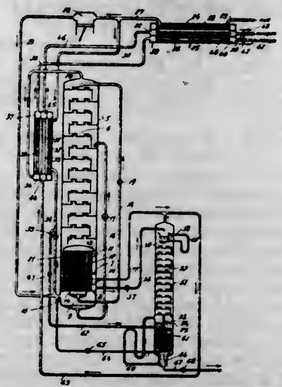
dished front member which together enclose and support in a vertical position on a car the gearing and winding drum of said mechanism and the upper portion of a brake chain, the said housing being closed at the top and sides but open at the bottom and the lower portion of the front wall being flared outwardly to rigidify the housing adjacent the open end thereof and to provide clearance for said chain.

1,945,364
CORN PICKER
Wilbur J. Coultas, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 23, 1931. Serial No. 510,728
10 Claims. (Cl. 56—104)



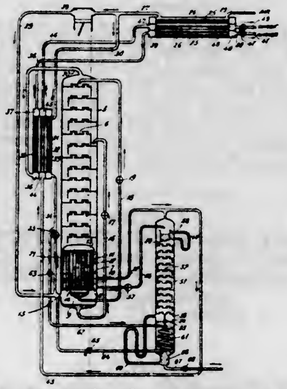
1. In a corn picker, the combination of frame members, picker rolls supported on said members, fenders covering the forward ends of the rolls, and means to adjust one of said rolls and adjacent fender laterally relative to the opposite roll and fender.

1,945,365
METHOD OF SEPARATING KRYPTON AND XENON FROM AIR
Wolcott Dennis, Elizabeth, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application May 5, 1932. Serial No. 609,425
2 Claims. (Cl. 183—115)



1. The method of recovering krypton and xenon from the atmosphere which comprises separating by liquefaction and rectification the principal constituents of the air, nitrogen and oxygen, collecting the oxygen as a liquid containing substantially all of the krypton and xenon initially included in the air, subjecting this liquid to an auxiliary rectification with vapors produced therefrom, thereby enriching the liquid in krypton and xenon, discharging the vapors consisting substantially of oxygen, cutting off the supply of oxygen liquid containing krypton and xenon from the primary rectification, subjecting the enriched liquid product of the auxiliary rectification to further evaporation, withdrawing the accumulated liquid residue, then introducing another portion of the oxygen liquid containing krypton and xenon and repeating the cycle.

1,945,366
APPARATUS FOR SEPARATING THE RARE GASES KRYPTON AND XENON FROM THE ATMOSPHERE
Wolcott Dennis, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Original application May 5, 1932, Serial No. 609,425. Divided and this application March 23, 1933. Serial No. 662,187
2 Claims. (Cl. 62—122)

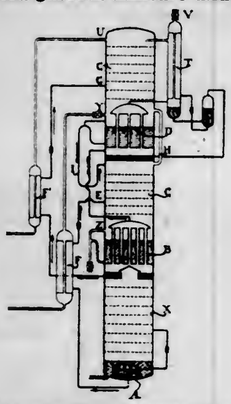


1. In an apparatus for recovering krypton and xenon from the atmsophere, a primary rectification column having a compartment for the accumulation of oxygen liquid containing krypton and xenon, an auxiliary rectification column, a pipe having a valve therein connecting the compartment with the auxiliary rectification column, means for supplying heat to the liquid in the auxiliary rectification column, an outlet for the vapors from the auxiliary rectification column, a reduced extension at the bottom of the auxiliary rectification column in which liquid enriched in krypton and xenon can accumulate, and a pipe having a valve therein for withdrawing the liquid.

1,945,367
PROCESS FOR THE SEPARATION OF GASEOUS MIXTURES
Maurice Gobert, Chaville, France, assignor to l'Air Liquide, Societe Anonyme pour l'Etude & l'Exploitation des Procedes Georges Claude, Paris, France
Application June 13, 1932, Serial No. 617,058, and in Germany June 13, 1931
13 Claims. (Cl. 183—115)

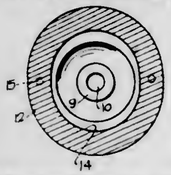
1. The process for the separation of gaseous mixtures containing more than two constituents by liquefaction and rectification successively performed under a higher and a lower pressure which

comprises; subjecting the gaseous mixture to a rectification under the higher pressure, whereby a first liquid and a gas under the higher pressure are obtained; partially condensing said gas under the higher pressure to a second liquid; utilizing a portion of said second liquid as rectifying liquid for the treated gaseous mixture under the higher



pressure; relieving the pressure of the remaining portion of said second liquid; and heating the whole of the remaining portion of said second liquid by the gas under the higher pressure from which the second liquid has been condensed, whereby a third liquid condenses from said gas under a higher pressure and gas vaporizes from said remaining portion of the second liquid.

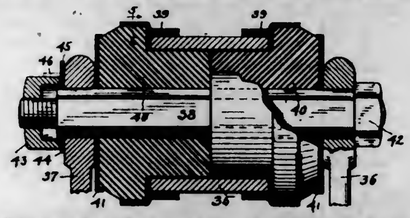
1,945,368
HAT BLOCK CONSTRUCTION
Harry E. Gough, Ozone Park, N. Y.
Application December 11, 1930
Serial No. 501,494
3 Claims. (Cl. 223—21)



1. A hat block comprising a crown tip portion, a handle formed in said portion, and a preformed tubular section constituting a crown wall portion secured to said tip portion and consisting of arcuate strips, each strip extending for a portion only of the circumference of the block, said strips fixedly united in integral tubular form and arranged to provide interior corner grooves for the reception of a turning member.

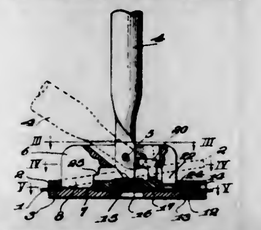
1,945,369
PIVOTAL CONNECTION
Howard C. Harris, Akron, Ohio; Archer H. Harris, administrator of said Howard C. Harris, deceased, assignor, by mesne assignments, to The First-Central Trust Company, Akron, Ohio, a corporation of Ohio, as trustee
Application June 27, 1925. Serial No. 39,970
46 Claims. (Cl. 267—54)

1. In apparatus of the class described, the combination of two members between which there is relative oscillating movement, one of said members having an eye and the other carrying a pintle extending through said eye, a flexible rubber bushing arranged between said pintle and said eye, and means for compressing said bushing in an axial direction for the purpose of expanding it to prevent relative slipping movement between the



bushing and said eye, said bushing being also held against relative slipping movement on said pintle whereby the relative oscillating movements of the pintle and eye are accommodated by the flexing of the bushing.

1,945,370
SAFETY RAZOR
Joseph Spencer Kennard, Jr., New York, N. Y.
Application November 4, 1929. Serial No. 404,852
10 Claims. (Cl. 30—12)



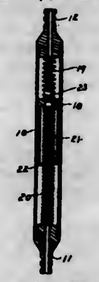
1. In a safety razor, a base, an arm, a single connection between said arm and base near one end, said arm having a portion turned toward and overhanging the middle portion of the base, a guard adapted to fit under said overhanging portion of the arm and over said base, and means on said arm adapted to press said guard and base together to hold a blade, said arm having means at its free end adapted to engage said guard, said means comprising an inwardly turned projection at the free end of said arm and an aperture in said guard, fitting said projection.

1,945,371
METHOD OF TREATING COAL AND PRODUCT THEREOF
Nathaniel R. Landon, Mount Kisco, and Ernest Victor Collins, Jr., Brooklyn, N. Y., assignors to Delaware, Lackawanna & Western Coal Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 14, 1930
Serial No. 428,511
7 Claims. (Cl. 44—6)

1. The method of treating coal which is discolored by oxidized iron compounds which comprises subjecting the coal to the action of a tannin solution and exposing the coal thereafter to the atmosphere whereby the oxidized iron compounds are converted into other compounds which restore the natural appearance of the coal.

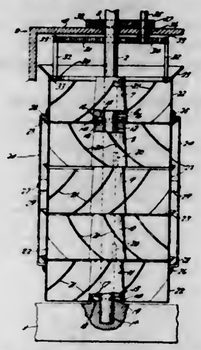
7. The method of treating coal which is discolored by oxidized iron compounds which comprises treating the coal with an extract of logwood and a tannin and exposing the coal thereafter to the atmosphere whereby the oxidized iron compounds are converted into other compounds which restore the natural appearance of the coal.

1,945,372
PNEUMOTYMPANIC VIBRATOR
Frances E. Lester, New York, N. Y.
Application September 21, 1931
Serial No. 564,045
2 Claims. (Cl. 128—38)



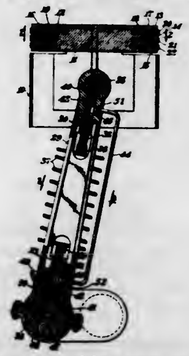
1. A pneumotympanic vibrator comprising a vertical cylinder having caps at each end; nipples associated with said caps; a flexible air bulb connected to the distal nipple; a meatal tip connected to the proximal nipple; a piston mounted in the cylinder and operated by pressing and releasing said air bulb; the meatal tip air-tightly insertable in the ear of a patient; and compression springs, contained in the cylinder and abutting against each end of the piston, for causing extra reciprocations of the piston in addition to those imparted to it by the manipulations of the air bulb so as to cause a number of rarifications and condensations of the air in the ear during each manipulation of the air bulb.

1,945,373
WATER WHEEL OR MOTOR
Frederick Nolan, Wichita, Kans.
Application October 22, 1932. Serial No. 639,036
1 Claim. (Cl. 253—16.5)



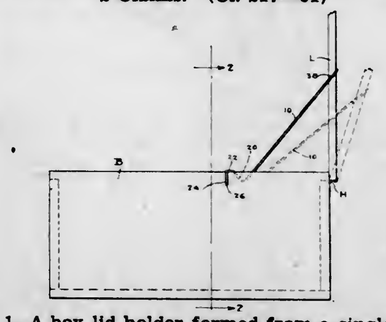
In a water wheel structure, a base, a shaft journaled on the base, water wheels mounted on the shaft, the end and alternate wheels being free on the shaft and the remainder secured on the shaft, a supporting frame including legs spaced from the sides of the water wheels and an end spaced from one end wheel, a gear supporting ring secured within one end water wheel, radially spaced legs secured to the gear supporting ring and extended endwise from the water wheel, an internal gear secured on the outer ends of the legs concentric with the shaft and water wheels and spaced outward from the latter, and co-acting gears on the said shaft and meshing with the said internal gear for driving the shaft.

1,945,374
PISTON ASSEMBLY
Demetrios Papaefthemeou, Richmond, N. Y.
Application September 13, 1932
Serial No. 632,897
3 Claims. (Cl. 309—42)



1. In a piston assembly, a groove on the lateral surface of the piston, a piston ring therein, a plurality of spaced holes circumferentially disposed about the lateral surface of the piston and extending from said groove inwardly and radially into the body of the piston a distance less than the radius of the piston, a bushing removably secured within each of said holes and longitudinally adjustable therein, a pusher rod movable within each of said holes and provided with an expanded portion abuttable with the inner end of the bushing for limiting the outward movement of the pusher rod, the stem of said rod extending through said bushing for engagement with the inner surface of the piston ring, and a helical spring in each of said holes behind and in constant engagement with the rear of said expanded portion to yieldably hold the outer end of the pusher rod against the piston ring.

1,945,375
BOX LID HOLDER
Louis A. Pazandak, Minneapolis, Minn.
Application April 21, 1932. Serial No. 606,579
2 Claims. (Cl. 217—61)



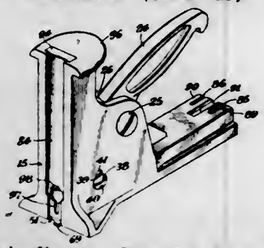
1. A box lid holder formed from a single piece of resilient wire comprising a body member, a short member extending from one end of said body member at somewhat less than a right angle to the body member, a second short member extending at an angle from the outer end of said first short member and deflected out of the plane which includes said body member and said first short member, a third short member extending at an angle from the outer end of said second short member and positioned approximately parallel to

said first short member, a still shorter and pointed member extending at an angle from the outer end of said third short member toward said first short member, a short member extending at an angle from the other end of said body member, a short member extending at an angle from the outer end of the last mentioned short member, a short member extending at an angle from the outer end of the short member just mentioned, said last mentioned short member being substantially parallel to next to the last short member mentioned, and a still shorter and chisel-shaped member extending at an angle from the outer end of the last mentioned member toward the line of said body member.

1,945,376
EXTRACTION OF PHENOLS
John Griffith Peake, Rhodes, near Sydney, New South Wales, Australia, assignor to Timbrol Limited, Rhodes, near Sydney, New South Wales, Australia, a company of New South Wales
No Drawing. Application March 5, 1931, Serial No. 520,479, and in Australia April 4, 1930
3 Claims. (Cl. 260—154)

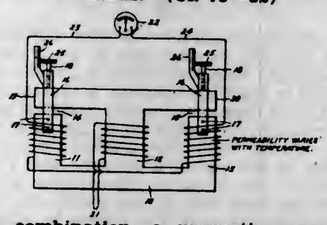
1. In the recovery of phenols from tar oils by extraction with a solution of a hydroxide of an alkali metal, the step of removing neutral oils and other alkali insoluble bodies from the solution which step comprises distilling the solution of phenols in the hydroxide of an alkali metal at a pressure substantially below atmospheric pressure.

1,945,377
STAPLING MACHINE
Emanuel R. Posnack, Brooklyn, N. Y., assignor of one-half to Charles B. Goodstein, Brooklyn, N. Y.
Application October 25, 1933. Serial No. 695,093
23 Claims. (Cl. 1—49)



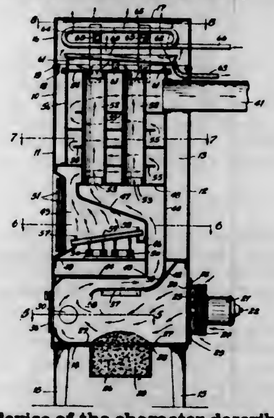
1. In a stapling machine for driving a staple with substantially arcuate prongs and an intermediate connecting portion shaped to extend out of the plane of its junctures with said prongs, the combination of a plunger, a hand operable lever, means coacting with said plunger and lever for reciprocally actuating the plunger by manual manipulation of the lever, lateral guiding walls bounding the said staple during its operating cycle under the driving action of the plunger, the distance between said walls being no less than the maximum overall length of the unclenched staple, the base of the machine having an opening underlying the line of travel of the plunger and adapted to permit the plunger to project therethrough at the completion of its power stroke, an anvil associated with the base and extending across said opening and adapted for positioning over the material being stapled when the machine is in operative engagement with said material, said plunger being adapted to drive the staple towards the material to cause the prongs to puncture the upper surface thereof and the said intermediate connecting portion to strike said anvil, the continued operative movement of the plunger reshaping and flattening said connecting portion of the staple against the anvil and simultaneously causing each of the prongs to move further into the material through the holes caused by said puncturing, the said walls holding the prongs against outward lateral movement; and means for disengaging the anvil from its position between the material and the staple.

1,945,378
TEMPERATURE INDICATING DEVICE
Percy A. Robbins, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application August 3, 1931. Serial No. 554,820
7 Claims. (Cl. 73—32)



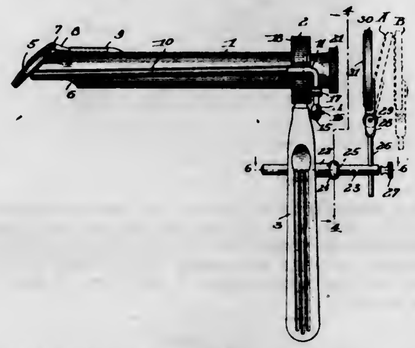
7. In combination, a magnetic core having portions providing a plurality of magnetic paths, at least one, but not all, of which include temperature sensitive magnetic material, thereby causing the relative quantity of magnetic flux in various portions of said core to vary with temperature, means for magnetizing said core, and means responsive to relative variations in magnetic flux in the portions of said core to provide a response to temperature variations.

1,945,379
AIR CONDITIONING DEVICE
Arthur A. Roesch, Belleville, Ill., assignor to Roesch Enamel Range Company, Belleville, Ill., a corporation of Illinois
Application March 4, 1932. Serial No. 596,693
4 Claims. (Cl. 257—9)



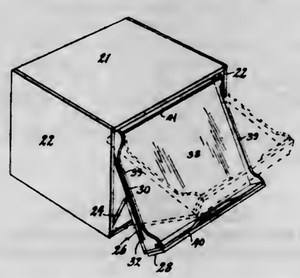
1. In a device of the character described a shell, a fan operatively secured thereon, a dehydrator operatively secured therein, an osonizing tube operatively secured therein, a heating element and a refrigerating element both operatively secured therein, tubes, baffle plates, said tubes and baffle plates positioned in said shell, so that the air circulation from said fan will pass through said tubes, and that the products of combustion from said heating element will pass around said tubes.

1,945,380
SURGICAL INSTRUMENT
George Oscar Russell, Columbus, Ohio
Application February 4, 1931. Serial No. 513,371
11 Claims. (Cl. 128—11)



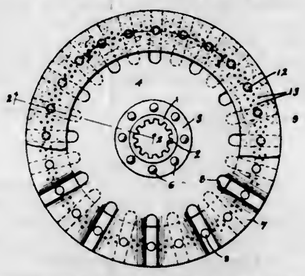
1. In a surgical instrument of the character described, the combination with a body tube provided with a collecting mirror at one end inclined to the axis of the tube, and having an observation opening at the other end, of a hood on the tube adjacent to the mirror between the latter and the observation opening and adapted to contain a lamp from which the mirror is thereby shielded, the open side of the hood being arranged to confine the illumination to a direction coincident with the line of incidence from the object to the face of the mirror.

1,945,381
MERCHANDISE STORING AND DISPLAYING CABINET
Howard W. Russell, Collingswood, N. J.
Application June 28, 1932. Serial No. 619,662
7 Claims. (Cl. 312—127)



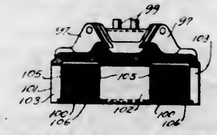
1. A storage and display cabinet comprising an enclosing casing having an entrance on its front end, a door for closing said entrance pivoted at its lower edge to said casing, a drawer slidable into and out of said casing through the entrance thereof, and means for causing said drawer to slide outwardly upon opening said door including a coupling device for connecting and disconnecting said door and drawer while the door is in a closed position.

1,945,382
CLUTCH OR TRANSMISSION PLATE
Ira Saks, Cleveland, Ohio
Application August 6, 1931. Serial No. 555,455
4 Claims. (Cl. 192—107)



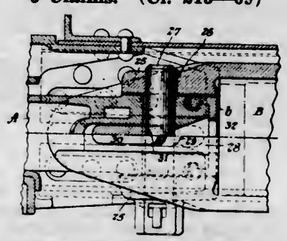
1. A clutch plate comprising the combination of a pair of discs mounted on a hub member, said discs having a plurality of arcuately curved peripheral sectors, and radially extending slots between said sectors, said slots in one disc being positioned opposite the central portion of said sectors in the other disc.

1,945,383
MAGNETIC TOY
Henry W. Sauer, South Euclid, Ohio, assignor to The Ohio Electric Mfg. Co., Cleveland, Ohio, a corporation of Ohio
Application March 24, 1932. Serial No. 600,939
3 Claims. (Cl. 175—367)



1. In a toy of the class described, an electromagnet comprising a generally cup-shaped shell composed of magnetic material and having a central projection therein, said shell being provided with a plurality of slots and said central projection being kerfed, and a coil surrounding said central projection and within said shell.

1,945,384
COUPLER ATTACHMENT FOR RAILWAY VEHICLES
Ernest H. Schmidt, Cleveland Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application April 24, 1928. Serial No. 272,431
6 Claims. (Cl. 213—69)



5. In a railway draft rigging, the combination with a coupler having a shank provided with a transverse key receiving opening and having shank portions immediately to the rear of said

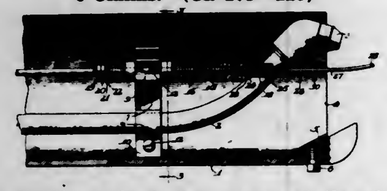
opening; of a yoke having aligned key receiving openings; a key extending through the openings of the coupler shank and yoke; a pivot member mounted in the coupler shank and extending transversely of the key, the key having a rounded seat on the rear edge thereof and the pivot member having a curved bearing surface fitting said seat, thereby providing a pivotal connection between the key and coupler shank and holding the key against endwise removal, said pivot member being arranged to space said key from the rear end of said transverse key receiving opening.

1,945,385
ELECTRODE DEVICE

Theodore Schmidt, Galesburg, Ill., assignor to Winslow Boiler and Engineering Company, Chicago, Ill., a corporation of Illinois

Application June 15, 1928. Serial No. 285,646

6 Claims. (Cl. 175—115)



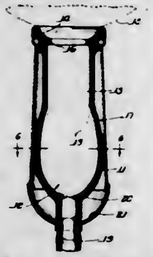
1. An electrode device, a support therefor, a conductor, an adjustable insulator on said conductor and carried by the support, adjustable means on said conductor for abutting the opposite ends of said insulator, an extension on one of said adjustable means, and a terminal carried by said extension.

1,945,386
TEAT CUP

Jacob J. Stampen, Chicago, Ill., assignor to Babson Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application August 28, 1931. Serial No. 559,897

4 Claims. (Cl. 31—85)



1. In combination, a teat cup comprising a metal shell having an upper cylindrical portion and a lower elliptical portion integral with the upper cylindrical portion and merging therewith, the cross sectional area of the elliptical portion being substantially the same as the cross sectional area of the cylindrical portion, and an inflation of uniform thickness arranged inside of the cup, the external diameter of the inflation being less than the internal diameter of the elliptical portion across its minor axis.

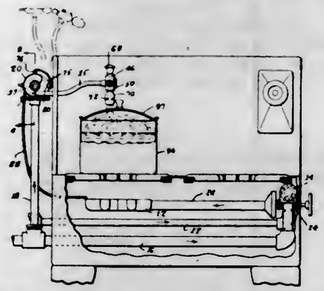
1,945,387
FUEL REGULATOR

Anton M. Vedoe, Wollaston, Mass.

Application April 6, 1933. Serial No. 664,699

12 Claims. (Cl. 236—20)

1. In a device of the class described, a burner, means for conducting fuel to the burner and including an arm, means mounting the arm for pivotal movement in a vertical plane toward and from the burner, means mounting the arm for pivotal movement in a horizontal plane, and means including a thermostatic member carried by the arm for controlling automatically the flow of fuel to the burner, the thermostatic member



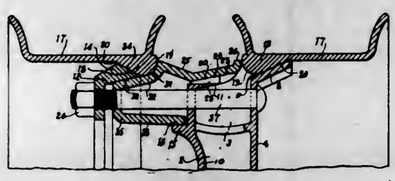
being adapted to be placed into heat conductive relation with a vessel on the burner and heat transmission therefrom to the member being adapted to cause movement of the thermostatic member and a reduction in the flow of fuel to the burner.

1,945,388
INTERCHANGEABLE WHEEL MOUNTING

George Walther, Guy A. Baker, and Harry Baker, Dayton, Ohio, assignors to The Dayton Steel Foundry Company, Dayton, Ohio, a corporation of Ohio

Application January 21, 1929. Serial No. 333,780

4 Claims. (Cl. 301—13)



1. A new article of manufacture for use as a clamping and wedging ring interchangeable in single and dual removable rim wheels comprising a laterally extending triangular portion and a radially inwardly disposed bolt-supported portion, said triangular portion having a pair of radially outer gable surfaces adapted to selectively engage a part of one rim and a radially inner tilting surface adapted to engage a rim support, whereby the rim may be supported around the periphery of the wheel or to one side of the wheel.

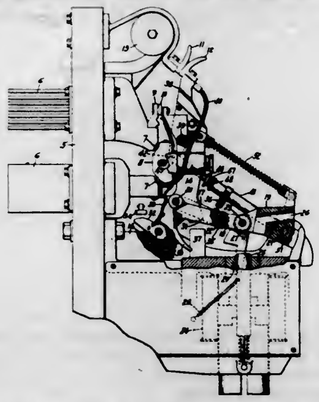
1,945,389
ELECTRIC SWITCH

Winfield A. Atwood, Yeadon, Pa., assignor to General Electric Company, a corporation of New York

Original application November 4, 1931, Serial No. 572,924. Divided and this application October 28, 1932. Serial No. 640,038

5 Claims. (Cl. 200—89)

1. In combination with a switch having a movable circuit controlling member, operating means therefor including a trip-free toggle mechanism having at least three links, two of said links forming a tripping toggle which, when rigid, constitutes with the third link a closing toggle, means for resetting the tripping toggle during a part of the circuit opening movement of the switch and holding means for maintaining the closing toggle



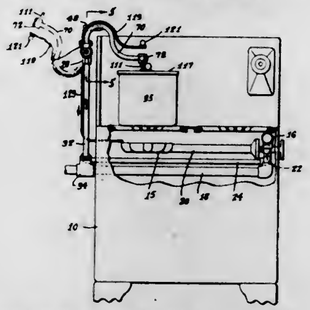
rigid to hold the switch closed as long as the tripping toggle is rigid.

1,945,390
FUEL REGULATOR

Eugene L. Baker, Taunton, Mass.

Application May 21, 1932. Serial No. 612,755

11 Claims. (Cl. 236—20)



1. In a device of the class described, a burner, means for conducting fuel to the burner, fuel controlling means including a metallic thermostatic member mounted therein to contact with the inner surface of a relatively thin metallic wall the opposite and outer surface of which is adapted to be engaged with a vessel on the burner, and means mounting the controlling means for movement toward and from the burner whereby said outer surface may be brought into heat-conductive contact with an exterior surface of said vessel, heat transmission directly from said exterior surface of the vessel to the member through said wall causing movement of the thermostatic member and a reduction in the flow of fuel to the burner.

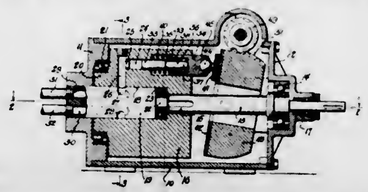
1,945,391
PUMP

Elek Benedek, Mount Gilead, Ohio, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio, a corporation of Ohio

Application July 17, 1931. Serial No. 551,414

7 Claims. (Cl. 103—162)

1. In a device of the character described the combination of a cylinder barrel rotatable about a fixed axis and having a plurality of substantially parallel cylinders therein disposed about said axis, pistons longitudinally reciprocable in said cylinders, a non-rotatable bearing ring surrounding said axis, a head having a resilient connection to each piston and a separate bearing shoe having a flexible connection with each head and reacting against said ring to sustain the piston thrust, each connection being disposed eccentrically of its associated shoe whereby said shoes



coact with said ring to form and maintain a load sustaining oil film therebetween during rotation of said cylinder barrel, said resilient connection consisting of a pair of springs, one of said springs surrounding one end of each piston and having one of its ends seated upon an interior portion of each head, and its other end connected to each piston end, and said other spring having one of its ends in abutting relation to one end of each head.

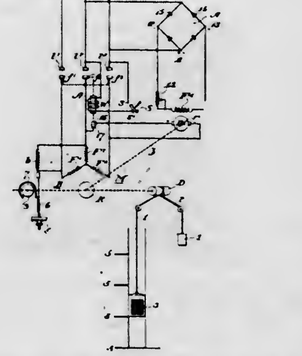
1,945,392
ELEVATOR CONTROL SYSTEM

Joseph H. Borden, Philadelphia, Pa., assignor to Atlantic Elevator Company, Philadelphia, Pa., a corporation of Pennsylvania

Application November 29, 1930

Serial No. 498,955

1 Claim. (Cl. 172—179)



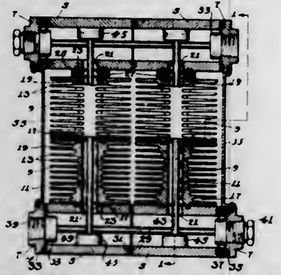
In an elevator system, the method of quickly and smoothly decelerating the alternating current motor which comprises disconnecting the motor from the alternating current power supply, applying a mechanical braking force, increasing said force during the deceleration period to a final magnitude not materially in excess of that required to restrain the unbalanced weight of the system, simultaneously applying an electrical braking force materially greater than the initial mechanical braking force, and decreasing the electrical braking force during the deceleration period at a rate varying substantially as the square of the speed of the motor.

1,945,393
TERMINAL
Charles H. Chapman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application May 15, 1929. Serial No. 363,267
7 Claims. (Cl. 173—324)



2. A terminal for a ribbon-like sinuous electrical conductor having a number of equally spaced convolutions comprising a lead member having a base portion of substantially the same shape as the bent end-portions of said convolutions whereby it may be fitted to any one of said end-portions on one side thereof with a substantial portion of its area in engagement with said side, a member cooperating with said base portion and shaped to conform with the other side of said bent end-portion whereby it may be fitted thereto with a substantial portion of its area in engagement therewith and means for detachably securing said base to its cooperating member.

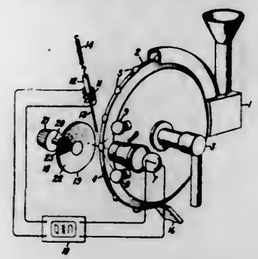
1,945,394
HEAT EXCHANGER
Thomas W. Carraway, Providence, R. I., and Benjaman Graham Littlepage, Shreveport, La., assignors to General Fire Extinguisher Company, Providence, R. I., a corporation of Delaware
Application July 30, 1932. Serial No. 626,406
6 Claims. (Cl. 257—150)



1. A heat exchanger comprising headers having a manifold section and end sections secured together, and an intermediate section between the headers and secured thereto; there being a passageway in the manifold section conforming to and registering with a passageway in the intermediate section whereby a fluid may flow from one header through said passageways to the other header.

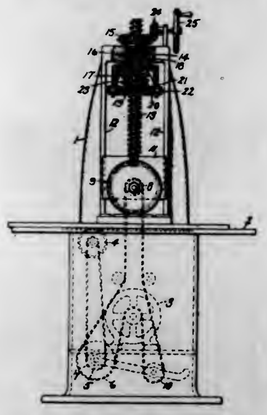
1,945,395
SORTING APPARATUS
William D. Cockrell, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 25, 1932. Serial No. 595,027
5 Claims. (Cl. 209—111)

1. Sorting apparatus comprising means for moving each of a plurality of similar articles to be sorted successively past a given point, a photo-electric device arranged to view each article as it passes said point, sorting means responsive to said device and a background mem-



ber at said point having means by which the amount of light received therefrom by the device may be varied in accordance with the reflecting power of the articles.

1,945,396
GRINDING MACHINE
Carl H. Gerling, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 19, 1929. Serial No. 356,537
2 Claims. (Cl. 51—166)

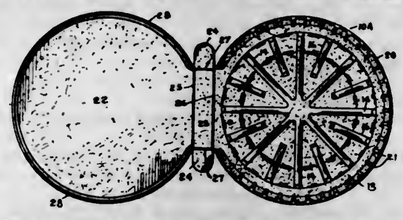


1. In a grinding machine, a grinding wheel, means including a worm shaft for adjusting the position of said wheel, a nut loosely engaging said shaft and held against longitudinal movement to thereby permit a limited movement of the wheel away from the work in any adjusted position of said wheel and resilient means interposed between said nut and shaft to yieldingly hold said wheel in contact with the work.

1,945,397
PASTRY HOLDER
Fred D. Gray, Herkimer, N. Y., assignor to Holed-Tite Packing Corporation, New York, N. Y., a corporation of New York
Application March 18, 1930. Serial No. 436,659
5 Claims. (Cl. 229—2.5)

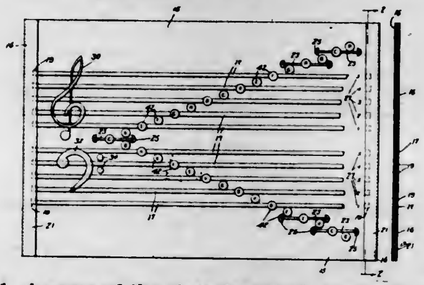
2. A dish formed of pulp material comprising a bottom and an upstanding rim, said bottom comprising a plurality of alternately disposed raised

ribs and uninterrupted channel-like spaces on



its inner surface, said ribs and spaces radiating from the center to the edge of the bottom.

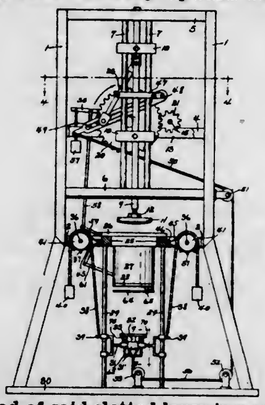
1,945,398
MUSIC READING GAME
Katharine S. Gregg, Cochituate, Mass.
Application May 24, 1928. Serial No. 280,299
3 Claims. (Cl. 84—471)



1. A game of the class described, comprising a chart-board, a plurality of relatively thin flat linear strip members, said chart-board having end portions extending forwardly of the front face of the main part thereof and each provided with a series of pockets extending longitudinally of the chart-board to detachably hold the linear strip members spaced from each other against the front face thereof in an arrangement to simulate a musical staff, said linear strip members being normally of a length greater than the distance between said end portions of the chart-board and being flexible permitting the same to be flexed and the end portions thereof sprung into the said pockets, and a plurality of characters simulating musical notes and symbols to be associated with the staff formed by said linear strip members, said linear strip members and said board on the portions thereof between said strip members providing flat surfaces for said characters to rest upon.

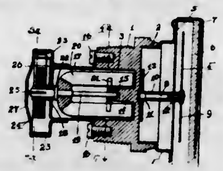
1,945,399
APPARATUS FOR PRESSING CLAY PRODUCTS
Andrew E. Guskea, Steve Homa, and Joseph Schultz, Toronto, Ohio
Application August 15, 1932. Serial No. 628,784
9 Claims. (Cl. 25—30)

1. In a press of the character described, a cylinder having a forming die associated therewith, a crank rotatably mounted on said press, a die head carried by a plunger rod reciprocable in said cylinder and adapted to have reciprocable movements imparted thereto by means of said crank, a slotted lever having one end thereof pivoted to a stationary portion of the press, said crank being adapted to travel longitudinally in said slotted lever for raising and lowering the free end of said lever, a vertically movable supporting table located beneath said cylinder, and means connecting the free end of said slotted lever and said supporting table whereby upward movement of



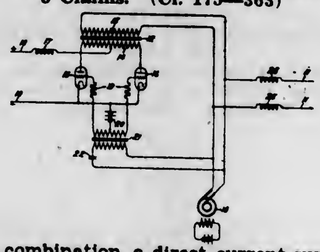
the free end of said slotted lever imparts a lowering movement to said table.

1,945,400
THERMOMETER
Herbert Hastings, Brighton, N. Y.
Application July 29, 1932. Serial No. 625,680
3 Claims. (Cl. 73—118)



2. A thermometer comprising an indicator housing and a magnet housing, a nonmagnetic member separating said housings, a thermoresponsive element housing, a pivot shaft rotatably mounted in said magnet housing and projecting into said thermoresponsive element housing, a magnet mounted on said pivot shaft within said magnet housing, a thermoresponsive element connected to said shaft within said thermoresponsive element housing, and an indicator carrying a magnetized follower mounted in said indicator housing and operated by said magnet thru said nonmagnetic wall.

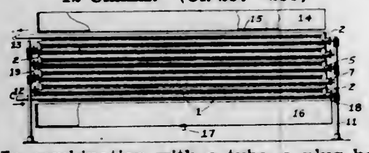
1,945,401
ELECTRIC VALVE CONVERTING SYSTEM
Eugen Horowicz, Berlin-Halensee, Germany, assignor to General Electric Company, a corporation of New York
Application October 1, 1932, Serial No. 635,773, and in Germany October 14, 1931
3 Claims. (Cl. 175—363)



2. In combination, a direct current supply circuit, an alternating current load circuit, vapor electric valve inverting apparatus of the parallel

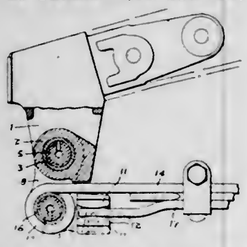
type interconnecting said circuits to transmit energy from said direct current circuit to said alternating current circuit, a dynamo-electric machine connected in parallel with the alternating current circuit of said inverting apparatus to supply a commutating voltage therefor, and means for maintaining a predetermined commutating voltage under short circuit conditions on said load circuit tending to reduce the commutating voltage to zero.

1,945,402
HEAT INTERCHANGER
John George Kaestner, Baltimore, Md., assignor to E. A. Kaestner Company, a corporation of Maryland
Application October 9, 1933. Serial No. 692,788
12 Claims. (Cl. 257—255)



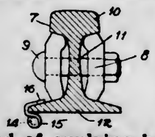
1. In combination with a tube, a plug having one end fitted to said tube, an enlargement on said plug having a surface facing said end, said surface having a portion directed downwardly toward said tube, and a stud on the other end of said plug projecting beyond said enlargement.

1,945,403
SHOCK ELIMINATOR
John Wycliffe Leighton, Port Huron, Mich.
Application June 13, 1932. Serial No. 616,772
10 Claims. (Cl. 267—54)



1. A shock eliminator for vehicles, comprising an oscillatable forward front shackle operating in a substantially upright position and having a rigid lever extending rearwardly in substantially right angular relation to the upright portion and engaging the spring in close-coupled relation to and immediately rearward of the spring pivot to restrain the oscillations of the shackle.

1,945,404
RAIL BOND AND METHOD OF APPLYING THE SAME
Karl J. Mosebach, Pittsburgh, Pa.
Application August 1, 1931. Serial No. 554,468
2 Claims. (Cl. 173—278)



1. The method of applying bond terminals of the hook type to rails which comprises welding the upper leg portion of a hook to the upper side of a rail base flange with the lower leg of the hook extending to a point below the said base flange and abutting the edge thereof, and bending the said lower leg inwardly.

1,945,405
PRODUCTION OF PYRANTHRONE DYESTUFFS
Wilfred M. Murch, Hamburg, N. Y., assignor to National Aniline and Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application April 24, 1931
Serial No. 532,697
9 Claims. (Cl. 260—61)

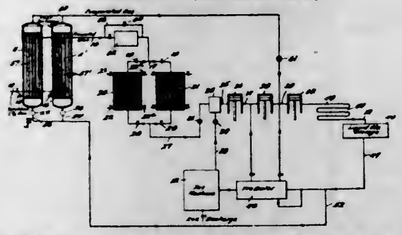
5. As new products, the vat dyestuffs obtainable by reacting pyranthrone with sulfuryl chloride in the presence of iodine and of an aromatic nitro compound, removing the insoluble chloropyranthrone which may be present in the reaction mass, and recovering the said vat dyestuffs from the residual reaction mass, said vat dyestuffs being, in the dry state, dark brown powders soluble in concentrated sulfuric acid giving blue to brown solutions, and soluble in sodium hydrosulfite solutions giving reddish-violet to brownish-violet colored vats which produce on cotton similar shades which on exposure to air change to reddish-brown to yellowish-brown shades.

1,945,406
HOSE WRENCH
Edwin O. Adams, Shelby, Mont.
Application April 10, 1933. Serial No. 665,434
1 Claim. (Cl. 81—90)



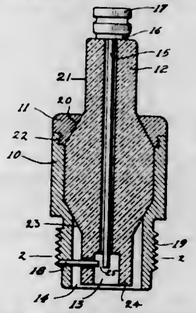
A wrench of the kind specified comprising a tapered arm constituting the leverage handle and having a substantially circular-shaped jaw at its wider end, a slotted lug merging into the jaw at one end, a fork merging into the jaw at its other end, and an inverted substantially U-shaped inherently resilient and normally contracted clip operatively confined within said fork.

1,945,407
PROCESS OF PURIFYING GASES
Sidney T. Adair and Charles F. Cushing, Baltimore, Md., assignors, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland
Application September 25, 1931
Serial No. 565,023
5 Claims. (Cl. 183—115)



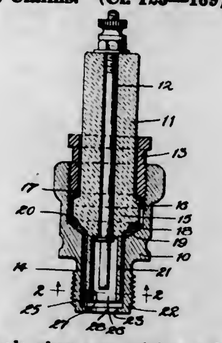
1. The process of purifying a liquefiable gas comprising the steps of compressing and liquefying the gas, expanding some of the liquid, transferring heat from the gas prior to compression to the expanded liquid to separate moisture from the gas, contacting the cooled gas with a dehydrating agent to remove more moisture, passing the dehydrated gas through solid, porous, adsorbent material to remove odoriferous compounds, and supplying the purified gas for said compression.

1,945,408
SPARK PLUG
August Eugene Anderson, Montclair, N. J.
Application April 11, 1932. Serial No. 604,592
1 Claim. (Cl. 123—169)



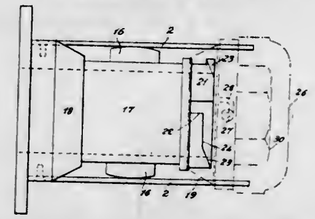
In a spark plug the combination of a hollow metal housing and a dielectric core member seated therein, oppositely directed upper and lower shoulders on the core member and housing respectively, adapted to make firm connection between them, a narrow shank at the lower end of the core member having a downwardly open chamber, an annular space being formed around said shank in the housing, a main electrode carried by the core member projecting with its spark point into said chamber, and a ground electrode secured in the threaded portion of said housing and extending across said annular space through said shank and projecting with its spark point substantially radially into said chamber, thus forming with the point of the main electrode a spark gap within said chamber, said shank and electrodes having room for expansion within said annular space.

1,945,409
SPARK PLUG WITH DETACHABLE ELECTRODE
August Eugene Anderson, Montclair, N. J.
Application June 17, 1932. Serial No. 617,899
2 Claims. (Cl. 123—169)



1. In a spark plug comprising a hollow metal body member, a dielectric core member seated therein and held firmly by a cap and standard gaskets, a shank at the lower end of said dielectric spaced from the side wall of the body member and provided with a downwardly open spark chamber, a main electrode suitably secured in said core member projecting with its spark point into the spark chamber and a detachable ground electrode having two straight arms, one of said arms being placed alongside the shank in the space formed between the shank and the wall of the body member, and the other arm forming an inwardly directed spark point on said ground electrode projecting into the spark chamber through a suitable aperture provided in said shank, contact between said body member and ground electrode being made through the intermediary of one of said gaskets adapted to clamp said ground electrode in position.

1,945,410
DEMOUNTABLE WHEEL
Ugo Antoni, Viareggio, Italy
Application May 8, 1930, Serial No. 450,845, and in Italy May 10, 1929
3 Claims. (Cl. 301—9)

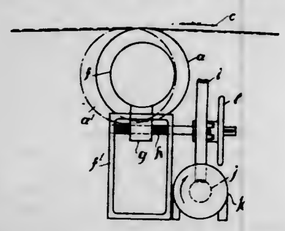


1. A device for mounting vehicle wheels and like uses, comprising a wheel carrying axle or axle bush, a cone integral with one end of this axle, wheel locating means on said axle whereby rotation of a wheel on said axle will be prevented, bayonet recesses at the free end of the axle, the bayonet recesses having a first portion inclined to the wheel axis and a second portion normal to this axis, a removable hollow cone adapted to be mounted on the free end of the axle whereby the wheel will be centered on the axle between the said fixed and removable cones, internal teeth in the removable hollow cone adapted to engage in the recesses on the wheel axle, whereby a wheel when placed on the axle can be wedged between said fixed and removable cones by the wedging action of the teeth on the hollow cone coacting with the inclined portion of the said bayonet recesses and thereafter locked on the axle by the said teeth coacting with the portion of said recesses normal to the wheel axis.

1,945,411
AUTOMATIC GUIDE FOR WEBS
William Thomas Armstrong, Gravesend, England
Application July 22, 1930. Serial No. 469,779, and in Great Britain July 26, 1929
3 Claims. (Cl. 74—51)

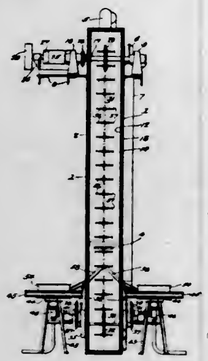
1. An automatic guide arrangement for webs comprising a guide roller, bearings for said guide roller, an electric motor, gearing between the shaft of said motor and one of said bearings, whereby said guide roller can be displaced to one side or the other to maintain the web in a predetermined path, pivoted fingers adapted to contact with the edges of said web when the web is displaced from the predetermined path and having an unlimited and unobstructed travel, a switch case mounted on each of said pivoted fin-

gers, electric contacts in the circuit of said motor in said switch case and a freely displace-



able element moving in said switch case under the action of gravity to bridge said contacts.

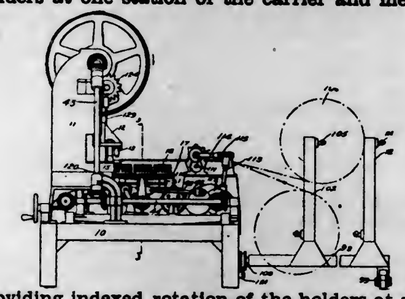
1,945,412
MECHANISM FOR TREATING LAMINATED BODIES
Frank H. Benge, Bridgeport, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware
Application April 9, 1929, Serial No. 353,794
Renewed July 13, 1933
6 Claims. (Cl. 18—6)



4. Mechanism for the treatment of laminated bodies comprising a housing containing a heating chamber, a conveyer mounted for movement in said chamber, the housing having openings at opposite sides to admit said bodies to be received by said conveyer, the housing having additional openings in its opposite sides for the discharge of said bodies at the end of the heating operation, a chute projecting through each of the last-named openings into the chamber to disengage said bodies therefrom, a rotating table at each side of said housing to receive the laminated articles through said chutes, and means for supplying a cooling medium to said table.

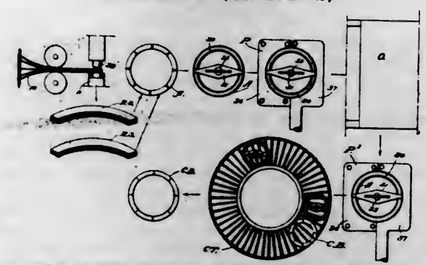
1,945,413
APPARATUS FOR PRODUCING SEGMENTAL RIMS
Frank H. Benge, Bridgeport, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware
Application March 25, 1930. Serial No. 438,879
56 Claims. (Cl. 154—1)

1. In a segment-assembling machine, a multi-station indexed carrier, rim holders carried thereby, means for delivering segments to the holders at one station of the carrier and means



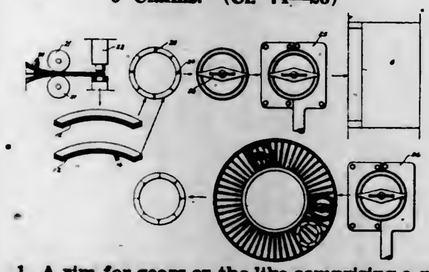
providing indexed rotation of the holders at said station.

1,945,414
METHOD OF PRODUCING SEGMENTAL RIMS
Frank H. Benge, Bridgeport, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware
Original application March 25, 1930, Serial No. 438,879. Divided and this application May 31, 1932. Serial No. 614,650
11 Claims. (Cl. 154—2)



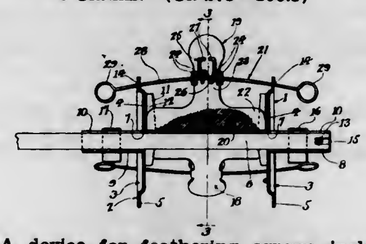
1. The method of assembling circular segmental bodies consisting in initially assembling the segments with adjacent faces thereof spaced and yieldably holding the segments in their assembled relation and while holding the same reducing the diameter of the assembly by radially applied pressure.

1,945,415
GEAR AND SEGMENTAL RIM FOR USE THEREIN
Frank H. Benge, Norristown, Pa., assignor to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware
Original application May 31, 1932, Serial No. 614,650. Divided and this application March 31, 1933. Serial No. 663,839
6 Claims. (Cl. 74—28)



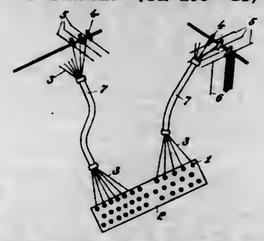
1. A rim for gears or the like comprising a plurality of layers of relatively thick segments arranged in end-to-end relation, each segment comprising a plurality of sheets of fabric impregnated with a synthetic resin or the like, the end faces of adjacent segments meeting at the outer peripheral wall of the rim and being spaced from one another at the inner peripheral wall of the rim.

1,945,416
DEVICE FOR FEATHERING ARROWS
Charles F. Birchall, Lancaster, Pa.
Application June 21, 1933. Serial No. 676,970
6 Claims. (Cl. 273—106.5)



1. A device for feathering arrows including a pair of oppositely disposed removable supports having aligning feather positioners on the opposed faces thereof and means for mounting said supports on the arrow, resilient elements mounted on said means for detachably clamping the supports to the arrow, and a releasable spring controlled feather holder extending between the supports and removably and slidably mounted in said aligned positioners for placing the glue carrying part of a feather lengthwise of the arrow and including means connected with said holder and detachably engaging in said supports for maintaining said part against the arrow until the glue sets.
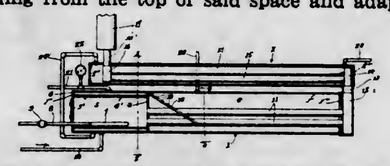
1,945,417
MATRIX-SETTING AND TYPE-LINE-CASTING MACHINE
Wilhelm Blume, Berlin-Tegel, Germany, assignor to firm Typograph G. m. b. H., Berlin, Germany
Application July 9, 1932, Serial No. 621,720, and in Germany August 25, 1931
3 Claims. (Cl. 199—18)



1. A matrix-setting and type-line-casting machine including in combination a matrix magazine, matrix release devices in front of the magazine, an independent composing keyboard, keys on the board, and Bowden cables directly connecting the keys and the matrix release devices.

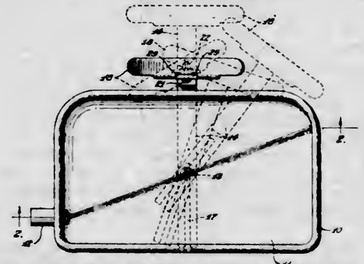
1,945,418
HEATING APPARATUS
Paul G. Brandt, Topeka, Kans.
Application July 23, 1931. Serial No. 552,779
1 Claim. (Cl. 122—37)

In a heating apparatus of that type including a heated condensate receiver for the reception of and for heating the water of condensation from a point of steam use, the combination of a horizontally disposed cylinder closed at its end, means within the front end portion of and coacting with the cylinder to provide a horizontally disposed combustion chamber, an annular steam generating space completely encompassing said chamber circumferentially of the latter and a steam generating chamber extending rearwardly from the inner end of said combustion chamber and space, heat conducting means extending through and for heating the steam generating chamber, said conducting means communicating with and extending from the rear end of the combustion chamber, a steam conducting pipe leading from the top of said space and adapted



to supply steam to a point of use for the latter, a steam conducting pipe leading from the top of the generating chamber and adapted to supply steam to a point of use for the latter, a pipe for supplying heated water of condensation to the bottom of said space, a water supply line opening into the bottom of said space, and a downwardly inclined perforated water supply pipe leading from the upper portion of the space and opening into said heat generating chamber said water supply pipe having its upper end arranged below the intake end of the steam conducting pipe leading from said space.

1,945,419
EMBALMER'S APPARATUS
James E. Brown, South Chicago, Ill.
Application December 21, 1931
Serial No. 582,433
3 Claims. (Cl. 27—23)

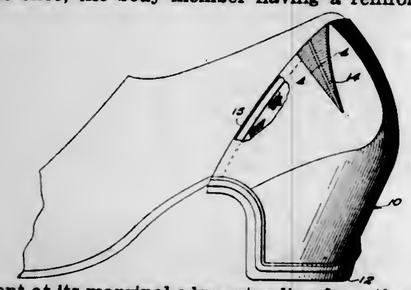


1. Embalmer's apparatus, comprising: a base having an upstanding wall; said wall having a slot formed therein and having a series of notches formed therein and spaced at intervals along said slot; a supporting member projected through said slot and selectively receivable in said notches; a head rest carried by said member; and said supporting member having a pivotal connection to said base for movement with said head rest and relative to said base, radially in a horizontal plane, about the said pivotal connection of said supporting member with said base.

1,945,420
HEEL GUARD
George L. Charles, Bryan, Ohio
Application February 1, 1933. Serial No. 654,728
1 Claim. (Cl. 36—72)

A protector for the purpose indicated comprising a body member shaped to conform to the

heel and heel portion of a shoe, and having elastic inserts on opposite sides to contract its marginal edges into firm binding engagement with the shoe, the body member having a reinforce-

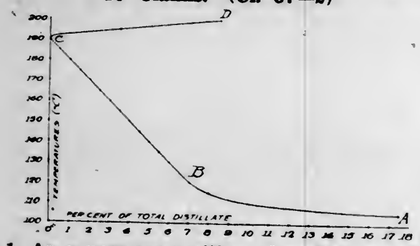


ment at its marginal edge extending from the insert on one side down underneath the instep engaging portion and terminating at the insert on the other side.

1,945,421

OLEO-RESINOUS MATERIAL AND METHOD OF PREPARING SAME

McGarvey Cline, Jacksonville, Fla.
Application May 23, 1931. Serial No. 539,585
16 Claims. (Cl. 87—2)



1. As a new composition of matter, an oleo-resinous product obtained by subjecting a natural oleo-resin as obtained from living trees to a heat treatment sufficiently high to distill off the water and water soluble acid constituents but not substantially higher, said product being a substantially transparent viscous liquid substantially free from water and water-soluble acids, but containing substantially all of the oily and resinous constituents of the native material and being substantially stable over long periods of time.

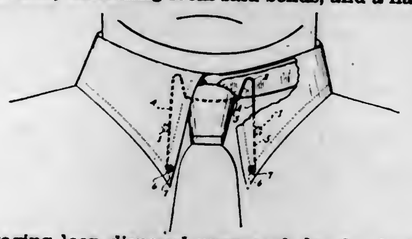
13. A pine tree product comprising a heat modified oleo-resin containing substantially the full amount of oily material of the crude oleo-resin, and which product is so free from acid content as compared to the crude oleo-resin as to have reduced corrosive power and is a flowable liquid at normal temperatures of transportation and storage.

1,945,422

SPRING WIRE COLLAR SNUBBER

William O. Dailey, Portland, Oreg.
Application May 31, 1929. Serial No. 367,507
5 Claims. (Cl. 2—132)

1. A device for supporting soft collars comprising two forwardly extending needle points adapted to penetrate the under side of the collar, said points terminating in half circle involuted loops, and which are adapted to limit the penetration of the points into the collar, legs upwardly extending from said loops, inverted U-shaped bends terminating each of the legs, a central portion forwardly extending from said bends, and a hand

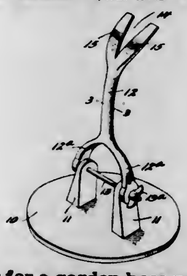


engaging loop disposed upon each leg for facilitating the manipulation of the device.

1,945,423

SUPPORTER FOR GARDEN HOSE NOZZLES

Addison R. De Pass, Columbia, S. C.
Application March 28, 1933. Serial No. 663,220
1 Claim. (Cl. 248—29)

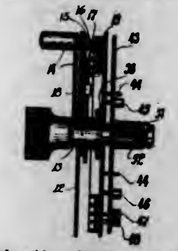


A supporter for a garden hose nozzle of the type having a peripheral groove adjacent the base thereof including, in combination, a supporting base consisting of a flat plate, a pair of spaced vertical lugs formed integrally with said plate, an arm bifurcated at each end, the bifurcations of the upper end of said arm adapted to receive the nozzle and disposed in said groove, the bifurcations of the lower end of said arm arranged to straddle said spaced vertical lugs, a bolt passing through said bifurcations and lugs and defining a horizontal axis about which said arm may be pivoted, a wing nut on said bolt for effecting adjustable frictional engagement between said lugs and bifurcations to allow said arm to be moved to adjusted positions by pushing or pulling on the hose the upper bifurcated end of said arm being curved about a horizontal line parallel to said axis whereby the vertical angular adjustment of said hose may be effected even to the extent of being directed vertically upward.

1,945,424

COMBINATION LOCK

William Charles Norman Duncan, Mullewa, Western Australia, Australia
Application June 3, 1932. Serial No. 615,225
6 Claims. (Cl. 70—53)

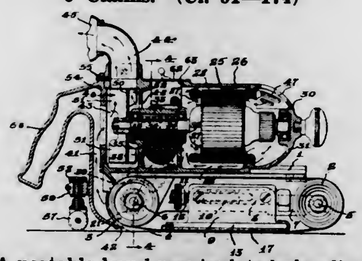


1. In a combination lock, a plate having a plurality of concentric grooves and holes corresponding to combination forming symbols, opening in said grooves; means received in said grooves for adjusting the combination; operable means associated with said means received in the plate grooves and engageable therewith for moving the same to combination setting position; and, means adapted to pass through the holes in said plate for engagement with the first mentioned means when set by said operable means.

1,945,425

PORTABLE HAND ABRADING MACHINE

Arthur N. Emmons, Syracuse, N. Y., assignor to The Porter-Cable Machine Company, Syracuse, N. Y., a corporation of New York
Application December 12, 1930
Serial No. 501,909
9 Claims. (Cl. 51—174)

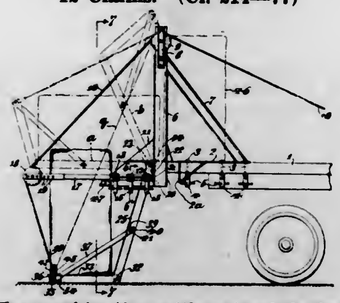


6. A portable hand manipulated abrading machine of the type described including a frame formed with a motor compartment, a gear compartment, and a suction compartment, said compartments extending lengthwise of the frame and being arranged in axial alinement, one side of the frame terminating adjacent the bottom of said compartments, and the other side depending below said compartments, spaced apart rollers carried by the depending side of the frame below the compartments and extending transversely of the frame, an abrading belt trained over the rollers, a motor mounted in the motor compartment and having its shaft extending into the gear compartment and the suction chamber, a fan mounted on said shaft in the suction chamber, a conduit having an inlet arranged adjacent the abrading belt, and an outlet opening into the fan compartment, and motion transmitting means between the motor shaft and the rear roller including gearing arranged in the gear compartment.

1,945,426

LOADING HOIST FOR TRUCKS

Martin Evoy, Philadelphia, Pa.
Application December 14, 1931
Serial No. 581,012
12 Claims. (Cl. 214—77)

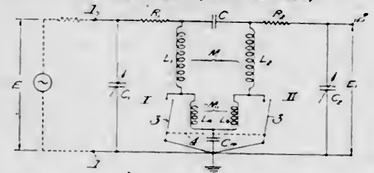


1. The combination with a truck body having a standard provided with a pulley thereon, of a pair of loading platforms fulcrumed to the rear of the truck body, one of said loading platforms acting as a pivoted extension to the other platform, means for causing the extension platform to assume different angular positions as the other platform is tilted upwardly and forwardly, and an auxiliary platform adjustable on the extension platform and to be engaged by a bale to be hoisted and loaded on the truck body.

1,945,427

COUPLED CIRCUITS

Paul O. Farnham, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a corporation of New Jersey
Application March 21, 1932. Serial No. 600,358
10 Claims. (Cl. 178—44)

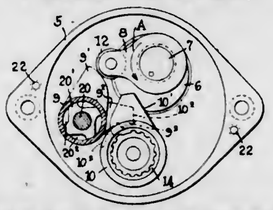


1. The combination with two circuits, and a reactive coupling between said circuits, of reactive means for varying the coefficient of coupling between said circuits while maintaining their natural resonant frequency unchanged; said reactive means comprising serially connected reactances coupling said circuits and resonating at the said natural frequency, and means for alternatively including said reactances in and excluding the same from said circuits.

1,945,428

LOCKING DEVICE

William Henry Featherstone, London, England, assignor to Allen, Rae & Company, Limited, a company of Great Britain
Application July 24, 1933, Serial No. 682,026, and in Great Britain August 2, 1932
8 Claims. (Cl. 70—124)



1. A device for operating a rotatable control member and locking it in a definite position, comprising, in combination, a rotatable control member carrying a cam piece, a spring controlled latch member adapted to lock said control member in a definite position, and a key operated cam adapted by its rotation to release said latch from locking engagement with said control member and then to engage said cam piece to turn the control member to a desired position.

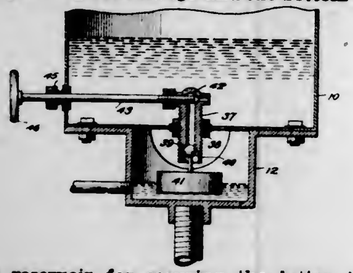
1,945,429

LIQUID LEVEL REGULATOR

Joseph E. Fowler, Worcester, Mass.
Application July 23, 1930. Serial No. 470,211
1 Claim. (Cl. 137—68)

In a liquid level regulating device, a well having an open top and a semi-circular opening in

one of its side walls opening out through the top edge of the well, a laterally extending annular flange formed integral with the well, a liquid reservoir mounted upon the annular flange of the well for closing the open top thereof, means passing through the flange and the bottom of the



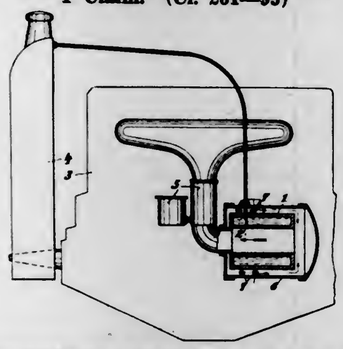
liquid reservoir for securing the latter to the flange, the said flange being of a diameter equaling the diameter of the reservoir, means providing communication between the reservoir and well, and a float-controlled valve positioned in the well in alignment with the semi-circular opening to regulate the level of liquid in said well.

1,945,430
COMPOUND TOOL
Henry Albert Garrett, Xenia, Ohio
Application July 29, 1932. Serial No. 625,964
1 Claim. (Cl. 306—14)



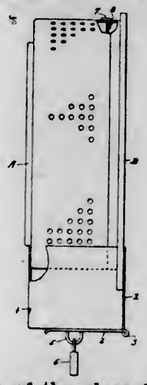
In a device of the character described the combination with a shank having an enlarged head provided at one end with an arcuate recess, and spaced parallel apertured ears projecting from said end of the head at opposite sides of the recess, and a member having one end thereof adapted for disposition between said ears, and provided at said end with a substantially semi-circular extension engaging in said recess, and also having at the end thereof remote from said extension an integral tool attaching lug disposed at an angle to said member, said member and the semi-circular extension thereof being also provided with apertures, and said ears being provided with apertures with which the first named apertures are adapted to register when said member is disposed at a desired angular adjustment relative to the head, a plate laterally engaging one of said ears and provided with pins for engaging the registered apertures for holding said member at the desired adjustment, and a pivot bolt extending through said plate, ears, and member for securing said plate, shank head, and member in assembled relation.

1,945,431
HUMIDIFIER FOR CARBURETORS
Anton Gasda, Vienna, Austria
Application October 23, 1931, Serial No. 570,731, and in Austria October 25, 1930
1 Claim. (Cl. 261—95)



A humidifier for carburetors comprising a multi-walled tubular member with inner and outer walls of porous material adapted to hold a liquid between the inner and outer walls thereof, a body portion surrounding said member and providing an air channel between the latter and the wall of the body member, said multi-walled tubular member being hollow and the interior thereof communicating at one end with the air channel and at the other end with the air inlet of a carburetor, and an air inlet for said body member.

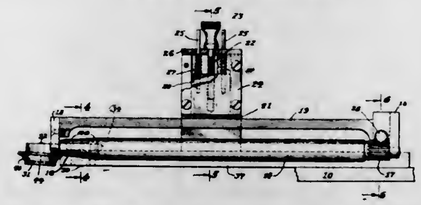
1,945,432
THERMOSTAT LOCK
Alonzo M. Getz, Morton, Pa.
Application October 10, 1933. Serial No. 693,017
2 Claims. (Cl. 70—14)



1. In a device of the class described, a base, a casing for fitting over and covering a portion of the base, said casing having its lower end terminating short of the lower end of the base, a tongue and slot connection between the upper end of the casing and the upper end of the base, a plate connected to the lower end of the base and depending below the same, a short casing having its upper end and rear side open, said upper end fitting over the lower end of the first mentioned casing and being secured thereto, the rear open part of the short casing being closed by the lower end of the base and the plate when the parts are connected together, a latch member hinged to the lower end of the plate and adapted

to extend across the bottom part of the short casing, a keeper member on the bottom part of the short casing engaged by the latch member, and means for locking the latch member to the keeper member.

1,945,433
SEAM SEALER FOR CIGARETTE MACHINES
Charles H. Gibson and Laurence E. Downs, Richmond, Va., assignors to The American Tobacco Company, New York, N. Y., a corporation of New Jersey
Application March 22, 1933. Serial No. 662,170
17 Claims. (Cl. 131—43)



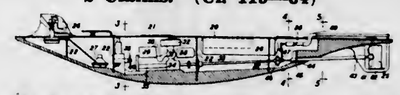
1. A seam sealer for continuous rod-cigarette machines, comprising a cylindrical member having a relatively long and smooth annular surface, adapted to be positioned above and parallel with the path of travel of a cigarette-rod, and manually-operable means for adjustably rotating said member to bring selected portions of its annular surface into pressing contact with the seam of a travelling cigarette-rod, leaving other portions exposed for cleaning.

1,945,434
THERMOSTAT
David McKay Greer, Washington, D. C., assignor to American Instrument Company, Washington, D. C., a corporation of Delaware
Application March 31, 1933. Serial No. 663,843
20 Claims. (Cl. 200—141)



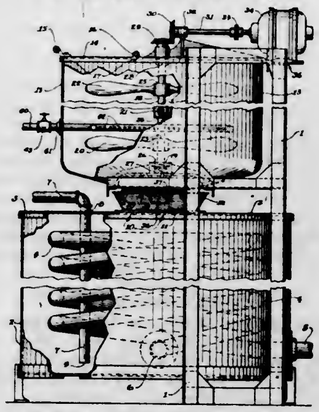
1. A thermoregulator comprising a mercury in glass column, a bulb at the extremity of said column, an operating reservoir having a diameter greater than the diameter of said column and disposed within said bulb and connected with said column, a secondary reservoir concentrically disposed between the inside wall of said bulb and the said operating reservoir, a lower electrode in said column, and an upper electrode intermediate the extremity of said column and the lowest level of said operating reservoir.

1,945,435
MOTOR DRIVEN SURF BOARD
Allan Valentine Hopkins, Vaucluse, near Sydney, New South Wales, Australia
Application October 12, 1932, Serial No. 637,489, and in Australia October 27, 1931
2 Claims. (Cl. 115—34)



1. A motor driven surf-board having a high pressure air reservoir, a water tight compartment, an internal combustion engine in said compartment, an air control chamber open to the atmosphere, an atmospheric air admission valve controlling the supply of atmospheric air to the engine compartment, a high pressure air control chamber, a valve controlling the supply of high pressure air to said compartment, and means including flexible diaphragms for automatically closing said atmospheric air valve and opening said high pressure air valve when water enters the atmospheric air control chamber.

1,945,436
TREATMENT OF BREAD
Karl P. Keeney, St. Louis, Mo., and Harold E. Turley, Chicago, Ill.
Application December 3, 1931. Serial No. 578,626
9 Claims. (Cl. 99—10)

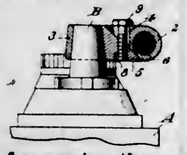


1. The method of treating bread which comprises subjecting the bread to the action of a digestant in the presence of acidified water, agitating until the non-crust material is broken down and mixed with the water, and thereafter removing the crust material.

1,945,437
TERMINAL CLAMP
John C. Krueger, Port Angeles, Wash., assignor of one-half to Charles W. Greenlee, Port Angeles, Wash.
Application August 23, 1932. Serial No. 630,097
1 Claim. (Cl. 173—259)

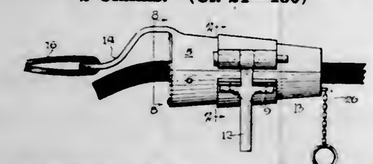
A battery terminal clamp comprising a body provided with a channel including side walls and an inclined wall, a cable sleeve formed with one end of said body, a battery post collar formed with the opposite end thereof, said inclined wall extending the entire depth of the channel and terminates at one end in close proximity to the post collar and merges into the cable sleeve at its opposite end said body having an oblong bore arranged in the inclined wall, a wedge provided with an inclined wall mounted for slidable move-

ment on the inclined wall of the channel and being substantially coextensive therewith, said wedge being provided with a threaded bore, a screw bolt having its shank extending through the oblong bore and threadedly received in the



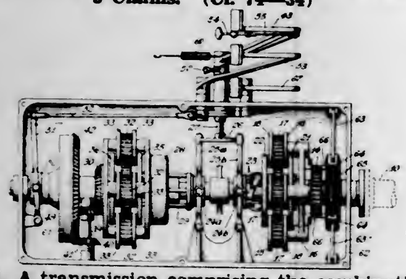
threaded bore for moving the wedge in gripping engagement with a battery post, and said wedge being provided with a rounded groove engageable with said post and following the curvature thereof.

1,945,438
CABLE GRIPPING DEVICE
Magnus Landahl, San Francisco, Calif.
Application January 16, 1933. Serial No. 652,042
2 Claims. (Cl. 24—136)



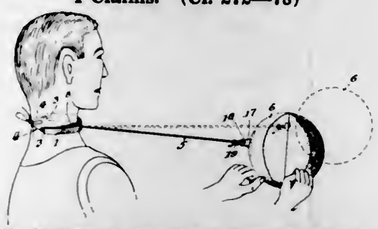
1. In a device of the character described, a pair of castings hinged one to the other, one of said castings having lugs formed thereon, the other of said castings having a lever pivoted thereto, a T-portion formed on said lever and capable of engaging said lugs, diverging dove-tail slots formed in each of said castings, a master gripper carried by each of said castings and slidable in one of said dove-tail slots in each of said castings, end plates carried by said master grippers, grippers slidably mounted in other of said dove-tail slots, said end plates engaging the other of said grippers whereby said grippers may be moved simultaneously.

1,945,439
TRANSMISSION
Valentine Lewand, Chicago, Ill., assignor of one-third to Frank Weinder and one-third to Joseph Lewand, both of Chicago, Ill.
Application January 25, 1933. Serial No. 653,510
3 Claims. (Cl. 74—34)



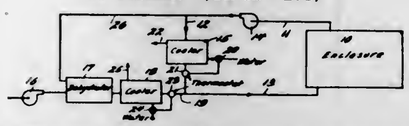
1. A transmission comprising the combination of a drive shaft and a driven shaft, a speed shift clutch pedal, a low forward speed transmission mechanism and a high forward speed transmission mechanism for operatively interconnecting said shafts, clutch mechanisms associated with said transmission mechanisms and pedal and successively operable by depression of said pedal to render said transmission mechanisms effective in their aforementioned order, a latch mechanism associated with said pedal for holding the same in depressed position, a brake pedal, and means operable by depression of the brake pedal to release said latch mechanism from engagement with the clutch pedal.

1,945,440
SUPPORT FOR EXERCISING BALLS
William P. Maslo, Reading, Pa.
Application November 14, 1932
Serial No. 642,640
4 Claims. (Cl. 272—78)



1. A device of the character described comprising a flexible mounting strip, securing means for said strip, an auxiliary strip intermediate the length of the mounting strip and having its ends secured to the same, an opening being formed in the mounting strip in front of the auxiliary strip, an elastic band for a punching bag having one end passed inwardly through the opening in the mounting strip, an anchoring disk between the mounting strip and auxiliary strip, said disk having an opening formed therein, the said end of the elastic band being doubled to form a loop passed through the opening of the disk and a portion of the band carried around the margin of the disk and folded back upon itself and passed through the loop to releasably hold the band attached to the disk and permit adjustment of the band to regulate its effective length.

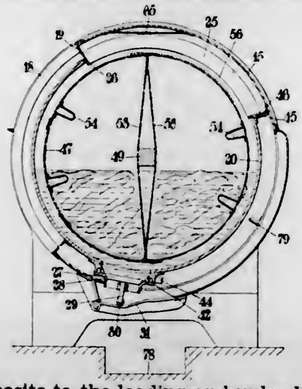
1,945,441
AIR CONDITIONING SYSTEM
Ernest Baldwin Miller, Baltimore, Md., assignor, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland
Application November 16, 1931
Serial No. 575,402
18 Claims. (Cl. 62—176)



1. The method of conditioning air supplied to an enclosure which consists in mixing two streams of air to form a third stream, one of said streams being supplied from the enclosure at a constant rate, another stream being supplied from outside air at a constant rate, treating the air of at least one of said streams to remove moisture therefrom and treating air of at least one stream to bring it to a fixed temperature such that the temperature of the air delivered to the enclosure will cause no discomfort to an occupant of the enclosure.

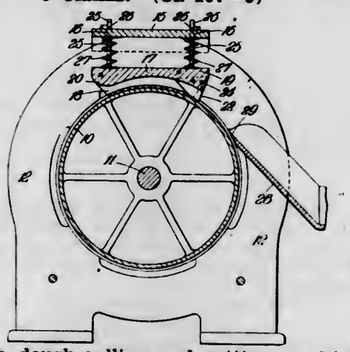
1,945,442
WASHING MACHINE
John Edward Pointon, Peterborough, England, assignor to Baker Perkins, Limited, London, England
Application December 31, 1930, Serial No. 505,900, and in Great Britain January 9, 1930
8 Claims. (Cl. 68—18)

1. A laundry washing machine comprising a perforated drum mounted for movement about its axis, an oscillatable water case enclosing the drum and having a peripheral loading and unloading aperture, a stationary casing surrounding the water case and having an opening in its periphery, said casing forming a closure element for the loading and unloading aperture when the water case is oscillated into the washing position, an outlet gravity valve mounted on the water



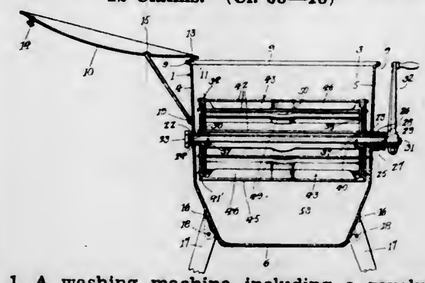
case opposite to the loading and unloading aperture, a stem for the valve, said stem extending outwardly of the water case, and a ramp on the stationary casing located in the path of the stem, said ramp having an inclined part for engagement by the stem to move the stem inwardly to open the valve during a predetermined travel of the water case.

1,945,443
MACHINE FOR ROLLING AND CUTTING DOUGH OR THE LIKE PLASTIC SUBSTANCES
Samuel Victor Poultney, Harrow Weald, England, assignor to Energen Foods Company Limited, Willesden, England
Application September 1, 1932, Serial No. 631,425, and in Great Britain September 14, 1931
9 Claims. (Cl. 107—9)



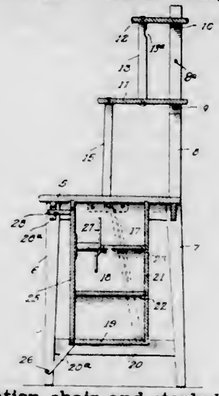
1. In a dough rolling and cutting machine a revoluble drum having in its surface a number of circumferential grooves, at least one stationary moulding member arranged to coact with a short arc of the circumference of said drum, means for yieldably maintaining said moulding member in spaced relation with said drum so as to provide a moulding space between said member and said drum, a pair of side walls fixed to said moulding member for laterally enclosing the moulding space and having their free edges shaped and adapted to enter certain of said circumferential grooves of the drum surface for the purpose of aligning the moulding member and a plurality of slicing blades mounted on said moulding member, the extremities of said blades being arranged to enter into others of the circumferential grooves of the drum surface, so that said blades completely traverse the delivery end of said moulding space.

1,945,444
WASHING MACHINE
Hessie T. Rutherford, Kansas City, Mo.
Application April 1, 1933. Serial No. 663,998
12 Claims. (Cl. 68—18)



1. A washing machine including a revoluble skeleton cylinder constituting a carrier having circumferentially extending parallel spaced holders, each consisting of a gripper member and a gripper-agitating element, said member and element disposed lengthwise and fixedly secured at their ends to the ends of the cylinder, said element having an inwardly extending part disposed radially of the carrier to provide an agitator, said member being arranged in parallel spaced relation to said part but adjacent thereto and coacting with the latter to form a pair of permanent spaces adjacent each side of the transverse median of the holder for the reception of a portion of each of a plurality of articles to be washed, opposed walls of said spaces coacting to provide frictional gripping means for clamping the said portions to the holder to suspend the articles at the outside of the carrier.

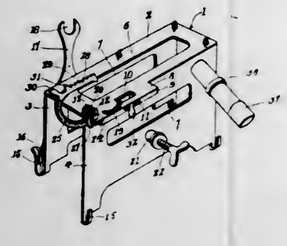
1,945,445
COMBINATION CHAIR AND STEPLADDER
Woldemar S. Sommer, West Brighton, N. Y.
Application June 21, 1932. Serial No. 618,534
1 Claim. (Cl. 155—42)



A combination chair and stepladder comprising front and rear legs, a seat on the legs, back posts, connected back slats for the chair piv-

otally supported by said back posts and swingable together to a horizontal position to form steps, pairs of supports for the convertible back slats pivotally connected thereto, a pair of braces for said chair, said braces having angular slots therein, the lowermost pair of said supports being provided with means riding in said slots.

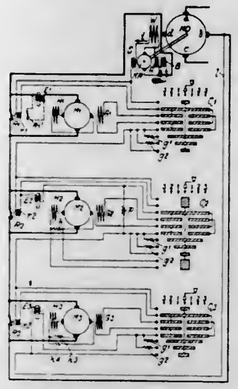
1,945,446
FISHING TACKLE ACCESSORY UNIT
Frank Madrak, Duryea, Pa.
Application May 26, 1932. Serial No. 613,719
10 Claims. (Cl. 248—37)



7. In a fishing tackle accessory unit, a holder element of inverted U-shape adapted to straddle a support and including means below the top thereof for clamping it stationary to said support, said element including a lateral extension projecting from one side of the top thereof, said extension being of angle-shape in transverse section and slotted in its top and in its side, a member extending upwardly from the other side of the top of said element and arranged opposite said lateral extension, said member being formed with a forked upper end for supporting a fishing pole adjacent the handle of the latter, a fishing pole handle seat on and arranged outwardly with respect to the slot in the top of said lateral extension, a shiftable spring controlled pole overlapping arm pivotally connected at one end to and adapted to extend through the slot in the top of the lateral extension for cl mping the fishing pole handle on said seat and to maintain, in connection with said member the pole at an upward inclination with respect to said seat, and a spring controlled latch pivotally attached to and slidably mounted in the slot in the side of the lateral extension for engagement with said arm to latch the latter in clamping position.

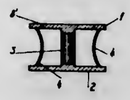
1,945,447
CONTROL OF ELECTRIC MOTORS
Joseph Maxime Pestarini, Paris, France
Application December 23, 1932, Serial No. 648,708, and in France January 14, 1932
11 Claims. (Cl. 172—239)

1. A system of distribution of electrical energy to direct current electric motors in which the armatures of the motors are connected in a series circuit supplied with constant direct current from a main source of supply, and the various windings and coils of the control apparatus for the various motors are included with the field windings in a separate auxiliary series circuit supplied with current from an auxiliary source of supply, and an additional field winding is provided on each motor arranged to oppose magnetically the usual field winding and connected to auxiliary collecting brushes disposed on the commutators of the respective motors and displaced



from the brushes by which the main direct current is supplied to the motors.

1,945,448
SEAL FOR SECURING WIRE AND CORD
Enrique Fernández Prieto, Barcelona, Spain
Application December 8, 1932. Serial No. 646,342
1 Claim. (Cl. 292—308)

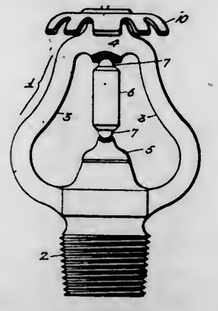


A seal for securing wire, cord or the like, said seal consisting of two substantially aligned, parallel spaced discs, a solid stem disposed substantially centrally of said discs, connected thereto and extending therebetween, said discs being further interconnected by two diametrically opposite walls, said walls being curved with the curvature directed inwardly, said walls being spaced from said central stem whereby to provide passages therebetween and said stem, at least one of said discs being provided with at least one groove in the outer surface thereof, whereby a line of weakness is produced in the substance of the disc.

1,945,449
METHOD OF MAKING RESILIENT CELLULOSIC TEXTILE FIBERS
Frank R. Redman, Upper Darby, Pa., assignor to Resilient Rayons, Inc., Philadelphia, Pa., a corporation of Delaware
No Drawing. Application May 2, 1933
Serial No. 669,063
6 Claims. (Cl. 28—1)

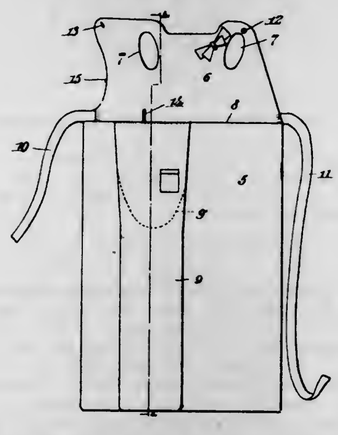
1. The process of treating cellulosic textile fibers in staple or yarn form to render them resilient, which comprises immersing said fibers in a bath containing an albuminous substance in solution, immersing said moist treated fibers in a solution containing an agent capable of reacting with said albuminous substance to form an insoluble material, and thereafter drying the fibers and during said drying treating said fibers mechanically to separate the fibers one from the other and to form a discontinuous insoluble film on the individual fibers.

1,945,450
SPRINKLER HEAD
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 11, 1933. Serial No. 651,191
3 Claims. (Cl. 169—138)



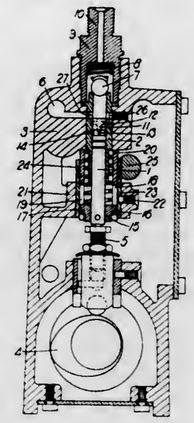
1. A sprinkler head comprising an integral frame, a closure cap and a seat for said cap in the frame, and thermally-releasable means interposed between the cap and an opposed portion of the frame and holding the cap to its seat, said holding means being insertable into operative position in the frame by distortion of the latter and said frame being adapted for said distortion to admit the holding means, the inherent resiliency of the frame thereby tending to exert pressure through said holding means to force the cap against its seat.

1,945,451
GARMENT
Max C. Schrank, Bridgeton, N. J.
Application December 16, 1932
Serial No. 647,629
7 Claims. (Cl. 2—83)



1. In a garment, a panel, the upper portion of said panel encircling the waist and the lower portion encircling one leg with the panel ends in overlapping relation, a leg stitched to and communicating with the interior of said panel, and means for holding said panel in wrap-around position.

1,945,452
FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES
Arthur Alexander Sidney, Thornton Heath, England, assignor to Bryce Limited, a company of Great Britain
Application July 11, 1932, Serial No. 621,957, and in Great Britain April 4, 1932
1 Claim. (Cl. 103—41)

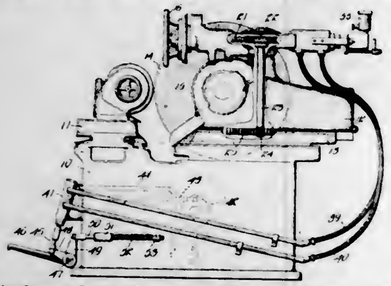


A fuel injection pump for internal combustion engines, comprising a cylinder having a diametrally opposed pair of substantially triangular ports for connection at their outer ends with a source of fuel, each of said ports having one of its edges disposed obliquely to the axis of said cylinder, and a plunger adapted to be reciprocated with constant stroke in said cylinder to move its active face inwardly and outwardly beyond said ports, said plunger having a circumferential groove spaced from its active face a distance greater than the maximum dimension of said ports longitudinally of said cylinder and an axial bore extending from its active face to a point between its ends and communicating with said circumferential groove, said plunger also having between its active face and said groove a diametral hole communicating with said axial bore, the edge of said diametral hole nearest the active face of said plunger being spaced from said face an the edge of said circumferential groove nearest said diametral hole being spaced from said hole a distance less than the maximum dimension of said cylinder ports longitudinally of said cylinder, the circumferential groove of said plunger being adapted to communicate with the ports of said cylinder during the final portion of the instroke of said plunger for by-passing fuel from said cylinder and said plunger being rotatable about its axis to adjust said diametral hole relatively to the oblique edges of said cylinder ports.

1,945,453
AUXILIARY POWER WHEEL FEED
Amos P. Steiner, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a corporation of Pennsylvania
Application October 4, 1928. Serial No. 310,335
18 Claims. (Cl. 51—95)

16. In a grinding machine a wheel support, a work support, hydraulic mechanism comprising a piston and a cylinder adapted to feed one of said supports toward the other, a hydraulic feed regulator, connections between said regulator

and said feed mechanism, said connections be-

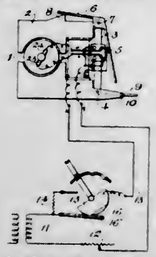


ing independent of any portion of the wheel support, substantially as set forth.

1,945,454
REMOTE CONTROL DEVICE FOR ELECTRIC MOTORS

René Trubert, Arras (Pas-de-Calais), France

Application September 21, 1931, Serial No. 564,113, and in France September 24, 1930
8 Claims. (Cl. 172—179)



1. A device of the character described comprising an electro-magnet, a lever pivoted at one of its end portions to said magnet, the free end portion of said lever disposed to be attracted by said electro-magnet, a second lever pivoted to the free end portion of said first mentioned lever and positioned to be attracted by said magnet when excited by a current insufficient to cause attraction of the first mentioned lever, and means arranged for engagement with said second lever when attracted by the electro-magnet to lock the first mentioned lever against subsequent attraction.

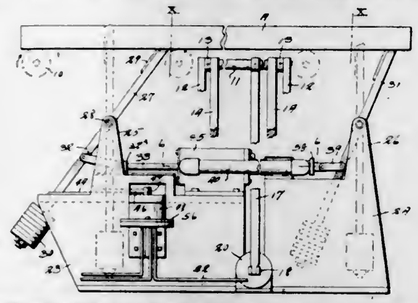
7. A device of the character described comprising a motor, a field magnet for said motor, an armature disposed to be attracted by said magnet, means between said armature and magnet and positioned to be attracted by the latter when excited by a current insufficient to cause attraction of the armature to lock the same against subsequent attraction, and a switch interposed in the circuit of said motor and operable in one of its positions to close the circuit between the motor and the source of electric current intended to supply the motor, and, in its other position to first close the circuit between the motor and a source of electric current different from that intended to supply the motor and thereafter close the circuit between the motor and the source of current intended to supply the motor.

1,945,455
AUTOMATIC LENGTH CONTROLLED SORTING MACHINE

Michael D. Wallace, McKeesport, Pa.

Application January 28, 1932. Serial No. 589,471
23 Claims. (Cl. 209—90)

1. A sorting machine including a conveyor along which the elements to be sorted pass, means adapted when actuated to lift the elements from the conveyor and discharge said elements laterally, and length determining members spaced from each other and disposed in the path of travel of the elements to be sorted for successive engagement by said elements, the engagement of

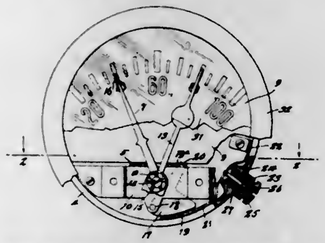


both of said members at one time by an element to be sorted preventing the actuation of said lifting and discharging means, the disengagement of an element from one of the members as it passes along the conveyor before the said element engaging the other member acting to operate the lifting and discharging means.

1,945,456
INDICATOR

Bernhard G. Wardenburg, Toledo, Ohio, assignor to Moto Meter Gauge & Equipment Corporation, Toledo, Ohio, a corporation of Delaware

Application October 20, 1932. Serial No. 638,817
11 Claims. (Cl. 116—129)



1. In an indicator having a casing, a maximum hand in said casing, means connected to said casing, and movable into engagement with said maximum hand for resetting the same, and means actuated from outside said casing for operating said resetting means.

1,945,457
DRY CHEMICAL FIRE EXTINGUISHER

Edward H. Warr and Benjamin Harry Statter, Baltimore, Md.

Application May 15, 1933. Serial No. 671,218
3 Claims. (Cl. 169—31)

1. A fire extinguisher, comprising a cylindrical tank-like member partitioned between its ends to provide a compressed air chamber and a chemical chamber, a hollow member extending centrally through said compressed air chamber and into said chemical chamber, said hollow member serving as a stay means for rigidly connecting said partition to the remote end of said compressed air chamber and also as a means for conducting the compressed air to the chemical chamber from the compressed air chamber, and valve means located at the extremity of the hollow member remote from the chemical

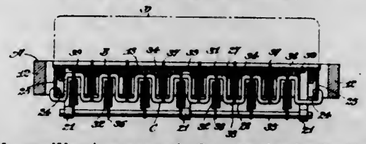


chamber to control communication between said chambers through said hollow member.

1,945,458
RESILIENT SUPPORT FOR SEATS

Albert Weickman and Charles F. Weickman, Harrison, N. Y.

Application July 28, 1932. Serial No. 625,445
2 Claims. (Cl. 155—179)

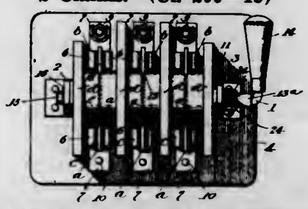


1. A resilient support for seats including in combination a stationary frame, a seat carrier hinged at one side to the frame, a rod fixed to the seat support at its free end, a floating element located between the support and the rod and having high and low points, a series of coiled springs connecting the high points of the floating element with the rod, and a second series of coiled springs connecting the low points of the floating element with the stationary frame, said floating element having members extending forwardly therefrom and pivotally connected to the seat carrier.

1,945,459
ELECTRIC SWITCH

George H. Whittingham, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a corporation of Maryland

Application December 24, 1931
Serial No. 583,066
2 Claims. (Cl. 200—15)

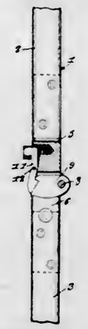


1. An electric switch mechanism comprising a base of insulating material, bearings mounted thereon, a shaft, angular in cross-section, journaled in said bearings, a tube of insulating material, angular in cross-section, fitting over said shaft, a switch-blade having an angular opening at its central portion fitting on said tube, blocks of insulating material supported by the blade, said blocks loosely surrounding the shaft and enclosing the central portion of the blade, and terminal clips at opposite sides of the shaft adapted to be engaged by the ends of the blade.

1,945,460
FOLDING CRUTCH

Elijah J. Willis, Morehead City, N. C., assignor of one-half to David E. Oglesby, Farmville, N. C.

Application November 15, 1932
Serial No. 642,791
1 Claim. (Cl. 135—49)



A crutch comprising a pair of sections, spaced ears extending across the end of one section, an ear on the other section to fit between the spaced ears and having a notch in one end, a pivot pin connecting the ears, and a dog pivoted adjacent the spaced ears and having its free end fitting between said ears and formed with a shoulder to engage the notch in the other ear to maintain the crutch sections in alignment.

1,945,461
METHOD OF RETANNING OF CHROME LEATHER

Thomas Blackadder, St. Davids, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.

No Drawing. Application December 10, 1930
Serial No. 501,477
10 Claims. (Cl. 149—5)

1. In the making of leather the step of retanning chrome leather which comprises the application of synthetic tanning materials belonging to the class consisting of condensed aromatic sulfonic acids, aromatic sulfonic acids of high molecular weight, and resins peptized in aromatic sulfonic acids, without neutralizing the leather prior to retannage.

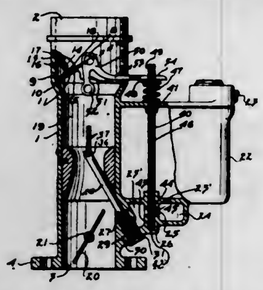
1,945,462
CARBURETOR

Andre J. E. Roualet, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware

Application February 27, 1931. Serial No. 518,608
10 Claims. (Cl. 261—50)

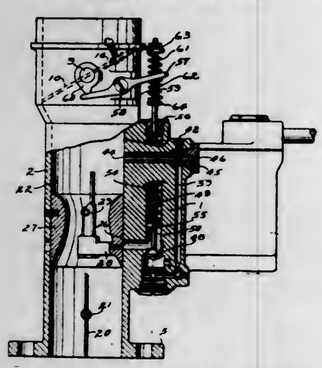
1. A carburetor including a mixing chamber, a fuel nozzle in said mixing chamber, a fuel system communicating with said nozzle including a source of fuel and having an air bleed, variable means in said fuel system between said nozzle

and said source of fuel for predetermining the supply of fuel to said nozzle during starting and during normal operation of said carburetor respectively and adapted to control said air bleed, a choke valve for conditioning said carburetor for starting, and mechanism for operating said



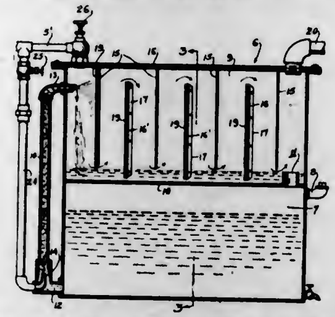
choke valve and variable means in timed relation so as to close said air bleed and meter the supply of fuel to said nozzle at one rate when said choke valve is open and to open said air bleed and meter the supply of fuel to said nozzle at a different rate when said choke valve is closed.

1,945,463
CARBURETOR
Andre J. E. Roualet, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application February 27, 1931. Serial No. 518,609
6 Claims. (Cl. 261—50)



1. In an internal combustion engine having a chamber for receiving a fuel mixture, a carburetor having a mixing chamber communicating with the fuel mixture receiving chamber of said engine, a choke valve in the air inlet of said mixing chamber for conditioning the air factor of said carburetor for starting, a normal fuel system including a passage for supplying fuel to said mixing chamber, a starting fuel system having an independent outlet communicating with the fuel mixture receiving chamber of said engine, a fuel valve for positively closing said passage rendering said normal fuel system inoperative, means for operating said choke valve and said fuel valve in timed relation so as to open said fuel valve only when said choke valve is opened beyond a predetermined position, and yieldable means operable by the suction in said mixing chamber for controlling the direct supply of air thereto when said choke valve is closed.

1,945,464
GAS PRODUCER
Jesse D. Thomas, St. Petersburg, Fla.
Application April 11, 1933. Serial No. 665,597
3 Claims. (Cl. 261—77)

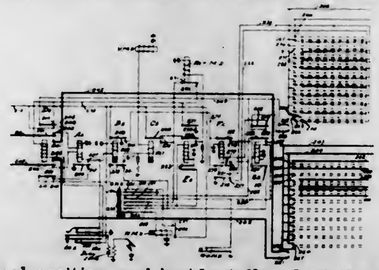


1. Gas producer comprising a carburetting device including a tank having an intermediate substantially horizontal partition, dividing said tank into a carburetting chamber above said partition and a reservoir for liquid fuel below said partition, an overflow pipe affording communication between said carburetting chamber and said reservoir and determining a shallow liquid fuel level above said partition in said carburetting chamber, a stand pipe affording means of communication between said reservoir below the level of liquid fuel therein and said carburetting chamber above the level of liquid fuel therein, an injector in the lower part of said stand pipe adapted to be supplied with air under pressure for discharging an aerated column of liquid fuel into said carburetting chamber thus establishing a liquid fuel circulation through the lower part of said carburetting chamber and said reservoir, a plurality of baffles in said carburetting chamber, alternating baffles extending from the roof of said chamber to a slight distance above the liquid fuel level in said chamber, and the other set of alternate baffles being spaced from the roof of said chamber and dipping beneath the liquid level therein to within a short distance of said partition, an outlet for carburetted mixture at the opposite end of said carburetting chamber, said baffles determining a sinuous course for the passage of air through said carburetting chamber, constricting it to a relatively thin film where it passes beneath alternate baffles into surface contact with the liquid fuel, the spaced relation of said baffles from said partition permitting a subsurface movement of the liquid fuel in said carburetting chamber toward said overflow, avoiding pocketing between said baffles of less volatile constituents of said liquid fuel resulting from the absorption of its volatile constituents by the current of air passing along its surface.

1,945,465
SELECTOR
Herbert M. Friendly, Chicago, Ill.; Milton S. Friendly and Central Republic Trust Company, executors of said Herbert M. Friendly, deceased
Application March 1, 1920, Serial No. 362,321
Renewed August 31, 1928
54 Claims. (Cl. 179—27)

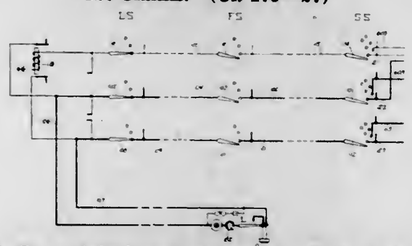
1. A selector having levels of bank contacts and a single set of wipers, said contacts terminating in outgoing trunks corresponding to a plurality of trunk groups, an auxiliary wiper carried by the shaft of said selector which is adapted to engage a contact corresponding to one of said

levels corresponding to a first trunk group, a release circuit, said contact completing the release circuit for the purpose of restoring said shaft to



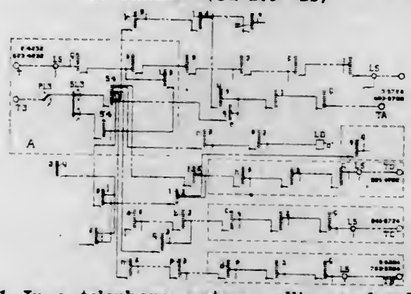
normal position and incidentally adapt the same wipers of said selector to electrically register with outgoing trunk contacts of a second trunk group.

1,945,466
TELEPHONE SYSTEM
Herbert M. Friendly, Chicago, Ill.; Milton S. Friendly and Central Republic Trust Company executors of said Herbert M. Friendly, deceased
Application September 23, 1921, Serial No. 502,626
Renewed April 9, 1926
127 Claims. (Cl. 179—27)



1. In a telephone system, a calling line, a called line, a tone source permanently associated with the called line indicative of a specific state thereof, a connector, means for directively operating the connector to connect the calling with the called line, and automatic means for applying the tone source audible along the calling line.

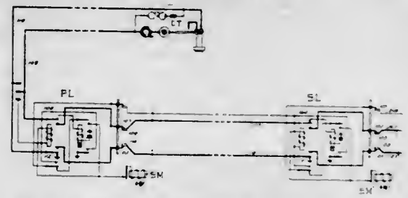
1,945,467
TELEPHONE SYSTEM
Herbert M. Friendly, Portland, Oreg.; Milton S. Friendly and Central Republic Trust Company executors of said Herbert M. Friendly, deceased
Application October 20, 1922. Serial No. 595,832
58 Claims. (Cl. 179—18)



1. In a telephone system, calling and called lines, a directive calling device on the calling

line, a common storing mechanism for receiving and storing series of directive impulses sent from the said calling device, directively controlled switches for extending a connection from the calling line to a called line, means for applying directive impulses from the said calling device directly effective to part of the said switches concerned in extending a call from the calling line, and means whereby part of the series of directive impulses concerned in the said call are first stored by the said storing mechanism and then resent therefrom effective to other of said switches to complete the extension of the call to the called line.

1,945,468
TELEPHONE SYSTEM
Herbert M. Friendly, Portland, Oreg.; Milton S. Friendly and Central Republic Trust Company executors of said Herbert M. Friendly, deceased
Application August 25, 1923. Serial No. 659,283
90 Claims. (Cl. 179—27)

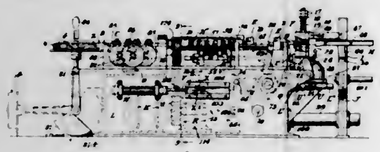


1. In an automatic telephone system, a calling and a called line, a trunk route between the calling and called lines, the route made up of a plurality of trunk links having terminating switches respectively, the trunks belonging to a corresponding plurality of trunk groups, a storing device, a dial on the calling line, means for initiating a call and for selecting the storing device, means whereby thereafter operating the dial will set-up a condition in the storing device for automatically directing the extension of a connection from the calling line towards the called line over one of said plurality of trunk links, means for then operating the terminating switch on the trunk link with selective relation to a said group of trunks, automatically applied means then made operative to test for and seize the first idle trunk tested of the group, means for arresting the directive operation of the storing device for only a predetermined period before again directively operating to further advance the call to permit the said operated switch to selectively seize a succeeding trunk of the latter said group, and means controlled over the call extension for initiating the directive operation of the storing device before the termination of said predetermined period to further progress the connection consequent to the switch selecting an idle trunk link.

1,945,469
FABRICATING MACHINE FOR LONG STOCK
Joseph H. Roberts, Waterbury, Conn., assignor to F. B. Shuster Co., Inc., New Haven, Conn., a corporation
Application May 3, 1928, Serial No. 274,750
Renewed August 24, 1932
92 Claims. (Cl. 140—140)

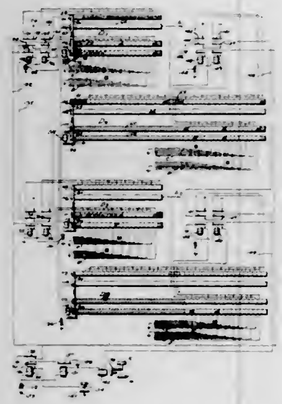
1. In a machine for fabricating long stock during feeding movement, the combination with a stationary frame, of means feeding the stock lengthwise; fabricating mechanism mounted on said frame and movable lengthwise of the moving stock; driving means mounted on said frame

and operating said fabricating mechanism in accord with the feeding movement of the stock; said fabricating mechanism including and carrying a fabricating tool movable in directions to



and from the stock; and connections between the fabricating mechanism and the stationary frame and causing said movements of said tool by the power of the movement of the fabricating mechanism lengthwise of the moving stock.

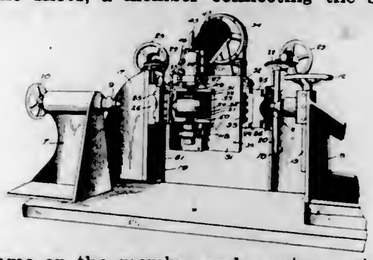
1,945,470
SIGNAL TRANSMITTING APPARATUS
Robert Steeneck, New York, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 14, 1929
Serial No. 414,105
11 Claims. (Cl. 177—380)



4. Apparatus for the transmission of electrical impulses comprising a first transmitter and a second transmitter, transmitting segments and control segments on said transmitters, means for applying a source of potential to said transmitting segments, means for completing a circuit through predetermined of said control segments to determine the number of signal impulses transmitted by said transmitting segments and means in said circuit operating upon the transmission of the last impulse by said first transmitter for starting the operation of the second transmitter.

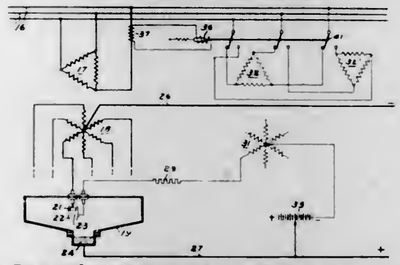
1,945,471
STONE FLUTING AND MOLDING ATTACHMENT
Lowell D. Walls, Bloomington, Ind., assignor to Indiana Limestone Company, Bedford, Ind.
Application May 28, 1931. Serial No. 540,729
5 Claims. (Cl. 51—34)

1. In combination with a traveling header having a pair of opposed standards with vertical guides, shoes on said guides, slides adjustable horizontally at right angles to the line of travel of the shoes, a member connecting the slides,



a frame on the member and a rotary grinding member carried by the frame.

1,945,472
ELECTRIC CURRENT RECTIFYING SYSTEM
Stefan Widmer, Hans Keller, and Max Hürlimann, Baden, Switzerland, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application February 5, 1932, Serial No. 591,012, and in Germany February 2, 1931
5 Claims. (Cl. 175—363)



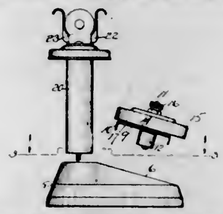
3. In an electric current rectifying system comprising an alternating current supply line, an electric current rectifier of the arcing type having a plurality of anodes and a vaporizable cathode, a transformer supplying potential to the anodes from the line, and a direct current output circuit supplied by the rectifier; control electrodes associated with the anodes, a transformer connected with the line and with said control electrodes to impress an alternating current potential thereon, the last said transformer having a direct current potential impressed thereon, one of the windings of the last said transformer being divided into several portions displaced electrically relative to each other, a switch for changing the connections of the said winding portions with the line, and a magnet operable upon the occurrence of abnormal conditions in the system to actuate said switch.

1,945,473
TOY TELEPHONE
Harold D. Allen, East Hampton, Conn., assignor to The Gong Bell Manufacturing Company, East Hampton, Conn., a corporation of Connecticut
Application June 4, 1931. Serial No. 542,075
4 Claims. (Cl. 46—46)

4. A toy telephone including a base having a flat table on its upper surface with an opening through said table and also clip openings therethrough and a signalling unit and a telephone unit made to simulate regular telephone members, said signalling unit comprising a plate fitted flatly against said table and having fastening clips

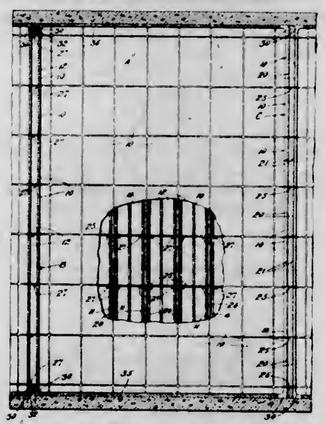
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projecting therefrom, a shaft projecting through said plate, and a dialling and signalling mechanism secured to said plate constituting a unitary structure such that it may be assembled as a unit



for attachment to said table by insertion of said shaft through said opening in the base in the table and by over-turning said clips on said plate to secure it to the table.

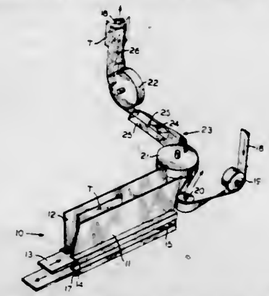
1,945,474
WALL
Clement R. Baldwin, Rocky Hill, N. J., assignor to Atlantic Terra Cotta Company, New York, N. Y., a corporation of New York
Application March 9, 1932. Serial No. 597,659
8 Claims. (Cl. 72—42)



1. A masonry wall, comprising bricks arranged in vertical rows and in horizontal rows, the vertical abutting surfaces of the bricks being flat and containing vertical grooves having a width less than one-half the width of said abutting surfaces, a series of vertical rods between the vertical rows of bricks lying in the grooves in the abutting surfaces of the bricks and greater in diameter than the mortar space between the flat abutting surfaces of the bricks, so that they are positively interlocked with the bricks, and means for preventing lateral movement of the series of rods.

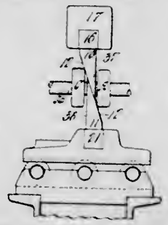
1,945,475
CONVEYER TRANSFER MECHANISM
Bruce Beardsley, Brooklyn, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 2, 1930. Serial No. 499,590
15 Claims. (Cl. 198—20)

1. In a conveyer system, a conveyer adapted to transport sheet material in a substantially vertical position and horizontal direction comprising a vertical trough having an open discharge end and a belt traveling in the base of said trough, a second conveyer having a belt passing obliquely across the open end of said trough, a movable element cooperating with said belt whereby sheet material discharged through the open end of said



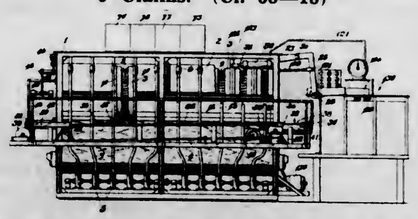
first conveyer by said first belt, will be propelled between said second belt and said movable element.

1,945,476
PARTS MOVING MEANS
John Y. Blazek, Maple Heights, and Russell G. Anderson, Cleveland, Ohio, assignors to Lempco Products Inc., Bedford, Ohio
Application February 25, 1933. Serial No. 658,504
10 Claims. (Cl. 254—104)



3. In a parts moving means, an adapter, a laterally movable carriage, a wedge mechanism comprising co-operating wedge members to contact an end of a part to be moved, one of said members mounted in said adapter, the other one of said members mounted in said carriage, and means to move said one wedge member longitudinally and thereby move the part relative to another part.

1,945,477
WASHING MACHINE
Charles K. Cimarik and Louis Zimarik, Akron, Ohio, assignors to The Prosperity Company Inc., Syracuse, N. Y., a corporation of New York
Application November 3, 1930. Serial No. 492,900
6 Claims. (Cl. 68—18)



1. In a washing machine, a frame formed with a cylindrical passage extending in a general horizontal direction, actuating rolls extending lengthwise of the lower portion of the passage on opposite sides of the vertical median plane of the passage, clothes receiving cylinders mounted in

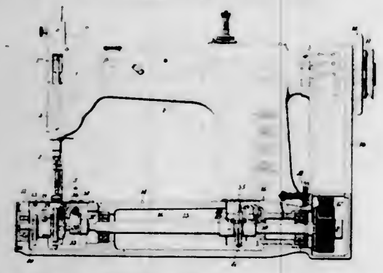
the passage and resting on the rolls, means for supplying and controlling the supply of washing fluids to the cylinders at different stations along the casing, the cylinders being shiftable axially through the casing and slidable along the rolls, and means for actuating the rolls and for shifting the cylinders axially of the passage and along the rolls, said rolls being of the same diameter throughout the portions thereof in said passage, whereby the cylinders can shift axially along the peripheries of the rolls.

1,945,478
SEWING MACHINE

Andrew B. Clayton, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application November 1, 1932. Serial No. 640,586

9 Claims. (Cl. 112—63)



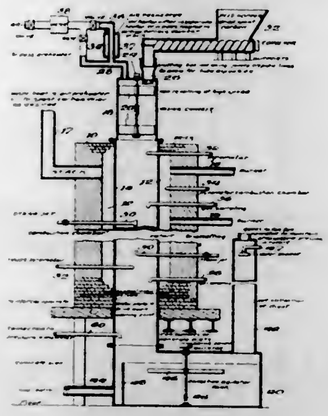
1. A chain-stitch feed-off-arm sewing machine having, in combination, a frame including a gooseneck, a forwardly extending arm rigid with said gooseneck, a laterally extending horizontal arm joined at one end to said forwardly extending arm, a rearwardly extending horizontal work-supporting arm joined at one end to and substantially coplanar with said laterally extending arm and terminating at its free end below the free end of said gooseneck, an upper rotary shaft journaled horizontally in said gooseneck, a lower rotary shaft journaled in said laterally extending arm, means connecting said shafts to rotate in timed relation to one another, a reciprocatory needle mounted at the free end of said gooseneck and connected to be driven by said upper rotary shaft, and an oscillatory chain-stitch looper disposed within the free end of said work-supporting arm in cooperative relation with said needle and connected to be driven by said lower rotary shaft.

1,945,479
MEANS AND METHOD FOR REVIVIFYING SPENT ACTIVATED CARBON

Raymond G. Davis, Wilmington, Del., assignor to Darco Corporation, Wilmington, Del., a corporation of Delaware

Application November 12, 1932
Serial No. 642,452
6 Claims. (Cl. 252—3)

1. An organization of apparatus useful in revivifying spent activated carbon which comprises a stationary elongated vertically disposed heating retort, a mixing chamber supported above and adapted to deliver into the top of said retort and having conveying means adapted to feed powdered spent carbon into said chamber, adjustable means for introducing air into the chamber and means within said chamber for mixing and dispersing the powdered spent carbon in the introduced air, means for heating the upper portion of the retort, a plurality of inlet pipes in the retort along its length below said heating means for injecting cooling gases into the retort, a collection tank for re-



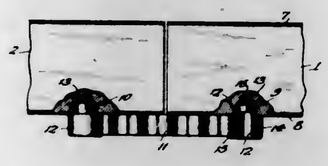
ceiving the revivified product and reaction gases from the bottom of the retort and a gas outlet conduit leading from said collection tank.

1,945,480
BOND

Edward M. Deems, Forest Hills, N. Y., assignor to Railroad Accessories Corporation, New York, N. Y., a corporation of New York

Application March 23, 1932. Serial No. 600,595

5 Claims. (Cl. 173—280)



1. A rail bond comprising an electrical conductor, a metallic thimble adapted to be partially inserted into a cavity in a rail, means electrically and mechanically connecting the thimble to the conductor, substantially a disc of metal positioned in the sleeve and adapted to be expanded laterally without substantial longitudinal displacement, said disc of a thickness such that when pressed all expansion thereof is exerted upon the wall of the thimble within the cavity, and means for connecting the other end of the conductor electrically to an adjacent rail structure.

1,945,481
FILM HOLDING DEVICE

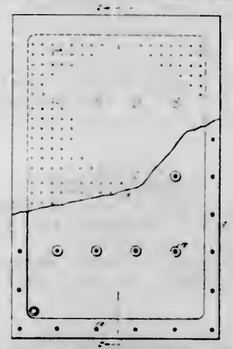
Howard B. Dilkes, Wilmette, Ill.

Application September 28, 1929, Serial No. 395,874
Renewed July 21, 1933

4 Claims. (Cl. 242—39)

3. A film holder adapted to hold a film in position to be used as a substitute for the usual photographic plate comprising a flat box-like enclosure of substantially the same shape as a photographic plate having a multiplicity of closely spaced apart openings along one face thereof

defining an area shaped so as to receive and hold a film in such position that its edges extend be-

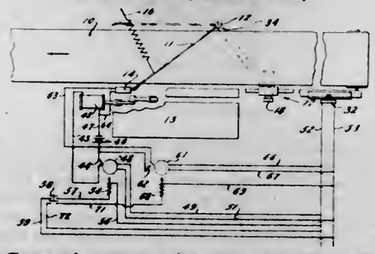


yond said area and a vacuum connection extending into the interior of said enclosure.

1,945,482
CONVEYER SYSTEM

Louis E. Dupuy, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts

Application November 21, 1930
Serial No. 497,190
4 Claims. (Cl. 198—20)



1. Conveying apparatus comprising a belt conveyer, movable means for changing the course of travel of an article, belt gripping mechanism engageable with the belt conveyer for travel therewith, timing mechanism for actuating the belt gripping mechanism after a predetermined time interval, means controllable independently of the article for rendering the timing mechanism effective, and means for transmitting motion from the belt gripping mechanism during travel thereof to the movable means to actuate the latter to change the course of travel of an article.

1,945,483
DISPENSING PACKAGE

Fred C. Gluck and Perry A. McCaskey, Minerva, Ohio, assignors to Minerva Wax Paper Company, Minerva, Ohio, a corporation of Ohio

Application March 29, 1932. Serial No. 601,782

2 Claims. (Cl. 206—58)



1. In combination with a roll of paper, a container therefor comprising a cover wound thereabout and having overlapping end portions, the web of paper from the roll passing outwardly between said end portions, said cover being inherently stiff and resilient and tending normally to maintain at all times a contracted relationship about said roll.

1,945,484
DYESTUFF PREPARATIONS

Alfred Hagenböcker and Rudolf Brune, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 10, 1930, Serial No. 481,072, and in Germany July 16, 1928

11 Claims. (Cl. 8—6)

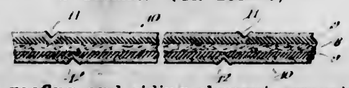
1. As new compositions of matter, preparations of thioindigoid dyestuffs containing 1/20–½ mol calculated upon the quantity of dry pure dyestuff of a salt of a heavy metal of the group consisting of iron, copper, zinc and tin.

1,945,485
ROOFING AND SIDING ELEMENT

Norman P. Harshberger, Pasadena, Calif., assignor to Bakelite Building Products Co. Inc., New York, N. Y., a corporation of Delaware

Application March 3, 1930. Serial No. 432,947

2 Claims. (Cl. 108—7)



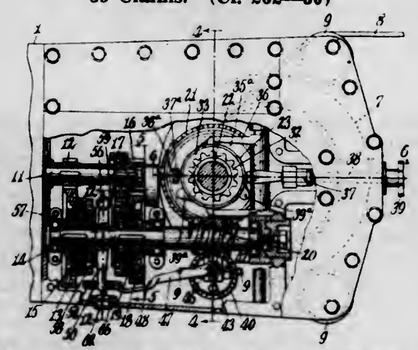
1. A roofing and siding element comprising a fibrous base having a weather protecting coating on both sides thereof, one of said sides having definition lines formed thereon by indentation of the surface coating to a depth not greater than the depth of the coating to leave the base unaffected, and the other of said sides having similarly formed definition lines of like depth, the definition lines on the two sides forming figures of substantially similar shape and of substantially identical position on the two sides, the definition lines on one side being offset with relation to the definition lines on the other side to prevent weakening of the material, and the figure on one side being smaller in size than in the figure below on the other side by the amount of said offset.

1,945,486
MINING MACHINE

Morris P. Holmes, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application March 29, 1930, Serial No. 440,089
Renewed January 24, 1933

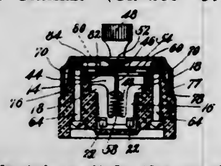
39 Claims. (Cl. 262—30)



1. A mining machine feeding mechanism including a feed operating member adapted to cooperate directly with flexible feeding means, and

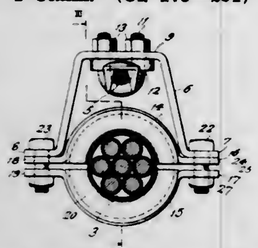
mechanism for driving said feed operating member in a direction to draw in its cooperating flexible feeding means including an oscillatory driving element and a driven element intermittently rotated in one direction, a motor, and driving means for said driving element for positively oscillating the latter in opposite directions, said driving means being automatically intermittently connected in driving relation with said motor and including a friction clutch and means for intermittently effecting and interrupting drive through said clutch.

1,945,487
ELECTRIC SWITCH
Frank E. Johnson, New Bedford, Mass., assignor to John I. Paulding, Inc., New Bedford, Mass., a corporation of Massachusetts
Application July 15, 1929. Serial No. 378,306
5 Claims. (Cl. 200—67)



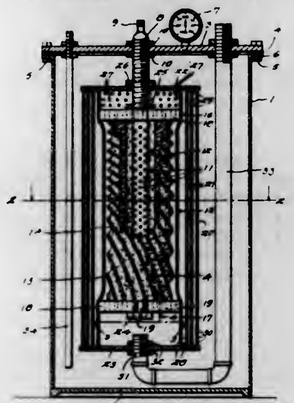
5. In an electric switch, the combination of a pair of fixed contacts, a rocker member for bridging said contacts, a spring for actuating said rocker member, a cam slide attached to one end of said spring, a cam for reciprocating said cam slide to operate said spring and a button for turning said cam in one direction to reciprocate said slide, said cam being provided with a tooth to prevent rotation in the opposite direction.

1,945,488
CABLE SUPPORT
Frederick C. Lavarack, Montclair, N. J., and Beverly A. Lundy, Larchmont, N. Y., assignors to Railroad Accessories Corporation, New York, N. Y., a corporation of New York
Application March 5, 1932. Serial No. 597,046
1 Claim. (Cl. 173—251)



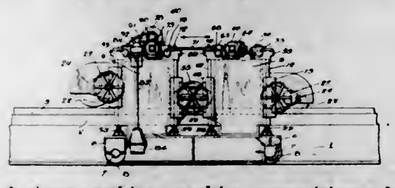
In a cable support, in combination: a substantially inverted U-shaped member formed with the ends of the legs bent outwardly at about a right angle, said ends being each formed with a bolt receiving orifice and the base of the U formed with orifices adapted for receiving the legs of a U bolt; a U bolt having its legs passing through the orifices therefor, and nuts screwed upon said legs and bearing against the outside face of the base of the U-shaped member; a messenger wire saddle between the inside face of the U-shaped member and the U bolt adapted to receive a messenger wire between it and the U bolt; two substantially semi-annuli, each having its ends bent outwardly and positioned parallel to each other and to the bent ends of the U-shaped member and each formed with an orifice for the reception of a bolt; a split annulus of insulating material formed with a peripheral groove into which the said semi-annuli fit and bolts each provided with a head on one end and a nut on the other passing through the orifices in the semi-annuli and the U-shaped member whereby a cable received within the split annulus may be firmly held by tightening the nuts on said bolts.

1,945,489
CARBONATOR
Job R. Manley, East Liverpool, Ohio, assignor to The Manley Automatic Co., Youngstown, Ohio, a corporation of Ohio
Application February 9, 1932. Serial No. 591,902
8 Claims. (Cl. 261—123)



4. A carbonating apparatus, comprising a tank having a head, a tubular body extending through said head into the tank, a cylindrical body of porous material having the first body extending therethrough, an apertured plate secured against and concentric with the inner end of the tubular body and supporting said cylindrical porous body, a cylinder encasing the porous body and the plate, said plate forming a partition in the cylinder, heads closing the ends of said cylinder, means for introducing water into the area between the plate and the adjacent head, said tubular body having apertures providing means for introducing gas into the porous body, the apertures of the plate passing water from said area to flow over the porous body, the cylinder having apertures therein adjacent the end remote from said area, and outlet means for the tank.

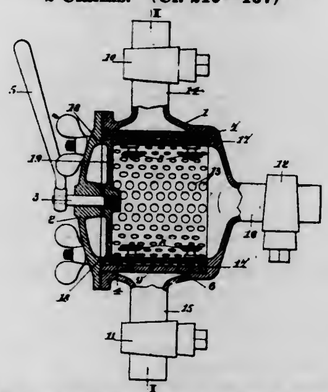
1,945,490
COMBINED STONE SURFACING AND SAWING MACHINE
Anthus D. Oldham, Bedford, Ind., assignor to Indiana Limestone Company, Bedford, Ind.
Application May 28, 1931. Serial No. 540,728
8 Claims. (Cl. 125—3)



1. A stone working machine comprising a bed, a track, a truck on the track, longitudinally

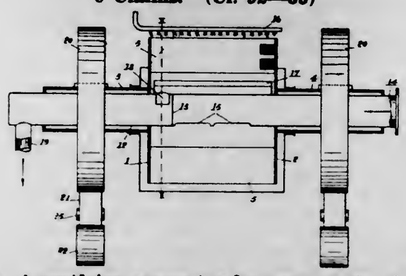
spaced standards on the truck, guides on the opposed sides of the standards, slides on the guides, a platform connecting certain of said slides, a shaft journaled on said platform, means for driving the shaft, a bearing mounted on certain of said slides, a rotary surfacing tool carried by the shaft and said bearing, and power operated means for adjusting the platform and bearing simultaneously.

1,945,491
FILTERING APPARATUS
Marcel Lamort, Vitry-le-Francois, France, assignor to Etablissements E. & M. Lamort Fils, Vitry-le-Francois, France
Application February 13, 1930, Serial No. 428,168, and in France February 22, 1929
2 Claims. (Cl. 210—167)



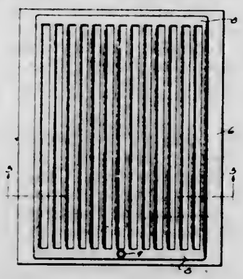
1. A filtering apparatus comprising a cylindrical casing having a pair of ports widely spaced around its periphery, a pair of conduits connected respectively with said ports, a cylindrical cage arranged coaxially within the casing and spaced therefrom to provide an annular chamber between the casing and cage, a filtering cloth fitted on said cage, and a pair of securing strips resting on the cloth and secured to the cage, said strips bearing against the inner wall of the casing to form a water-tight joint.

1,945,492
PULP STRAINER
Marcel Lamort, Vitry-le-Francois, France, assignor to Etablissements E. & M. Lamort Fils, Vitry-le-Francois, France
Application June 4, 1932, Serial No. 615,451, and in France June 8, 1931
6 Claims. (Cl. 92—35)



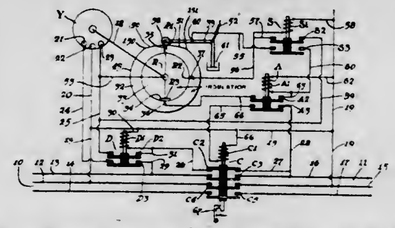
1. A purifying apparatus for paper paste, characterized by the fact that a plurality of straining surfaces are situated obliquely or perpendicularly with reference to a main surface, and that the shaking movements take place alternately, or by jerks, in a direction parallel with the said main surface.

1,945,493
FILM HOLDING DEVICE
Frank Martindell, Western Springs, Ill., assignor, by mesne assignments, to Howard B. Dilkes, Wilmette, Ill.
Application October 3, 1929, Serial No. 397,112
Renewed July 21, 1933
5 Claims. (Cl. 248—39)



3. A vacuum chuck comprising a flat rectangular shaped metal plate having a plurality of spaced apart openings therein, a flexible metal plate having a plurality of parallel ridges of semicircular contours formed therein and attached to the first plate about its periphery.

1,945,494
SYNCHRONIZER
Erick Pearson, Minneapolis, Minn.
Application November 7, 1930. Serial No. 493,960
34 Claims. (Cl. 171—118)



27. In an electrical system wherein two sources of alternating currents are to be connected, switching means for connecting said sources together, a synchronizing device responsive to the frequency and phase differences of potential of said sources, a contact element, means mechanically operated by said device for intermittently moving said contact element in one direction at time intervals related inversely to the frequency difference, means for returning said contact element during the intervals between the intermittent actuations thereof, a timing element for retarding the return movement of said contact element, a contact engageable by said contact element after a predetermined return movement, the retardation of said movement being correlated to the permissible frequency difference at closing of said switching means so that at any greater frequency difference said contact element is always moved in said one direction before it can engage said contact, and means controlled by the engagement of said contact element and contact for closing said switching means.

1,945,495

SPILE FOR A LIQUID CONTAINER

Theodore W. Rieke, Auburn, Ind., assignor to Rieke Metal Products Corporation, a corporation of Indiana

Application January 18, 1932. Serial No. 588,669
6 Claims. (Cl. 220—39)



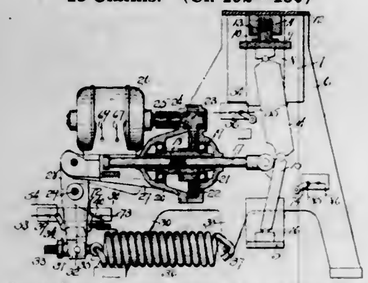
5. In combination with a container having an emplacement in its wall with an opening therein, a gasket, a frangible disc, and a bushing, said bushing, disc and gasket being so arranged when installed in said emplacement that said disc is rigidly held over the top of the bushing beneath said gasket to form a leak-proof closure for said opening.

1,945,496

PRESS ACTUATING MECHANISM

Harry E. Sloan, Hartford, and George A. Highberg, West Hartford, Conn., assignors to The Cushman Chuck Company, Hartford, Conn., a corporation of Connecticut

Application November 23, 1932
Serial No. 644,046
15 Claims. (Cl. 192—150)



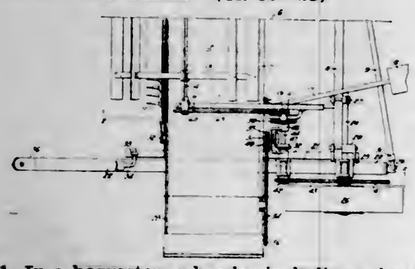
1. An actuating apparatus for pressure mechanism, said apparatus including an actuated member, movably mounted actuating means for moving said member in one direction, said actuating means including movably mounted interengaging threaded members one of which is operatively connected with the actuated member, means for operating the other of said threaded members, and means for yieldingly retaining said movably mounted means against movement to a limited degree.

1,945,497

HARVESTER

Elmer E. Wickersham, San Leandro, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California

Application July 29, 1930. Serial No. 471,544
18 Claims. (Cl. 56—23)



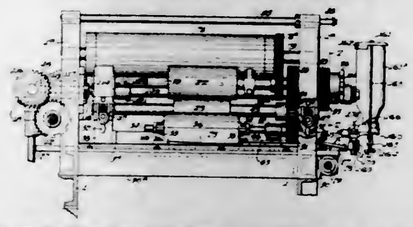
1. In a harvester, a header including a header frame and a draper disposed substantially in a single plane, said draper overhanging the header frame; a frame extending rearwardly and forwardly transversely across the overhanging portion of the draper; and means connecting said frames.

1,945,498

INKING MEANS FOR PRINTING MECHANISM

True M. Avery, Glens Falls, N. Y., and William M. Seitzinger, Chicago, Ill., assignors to Union Bag and Paper Corporation, Hudson Falls, N. Y., a corporation of New Jersey

Original application May 26, 1930, Serial No. 455,919. Divided and this application July 19, 1932. Serial No. 623,424
9 Claims. (Cl. 101—351)



1. Printing mechanism comprising a rotatable printing roll, a rotatable ink feeding roll, a rotatable inking roll movable into and out of cooperation with the printing and ink feeding rolls, means for adjusting the ink feeding roll toward and from the inking roll, and means to act on the respective ends of the inking roll for holding the inking roll out of cooperation with the printing and ink feeding rolls.

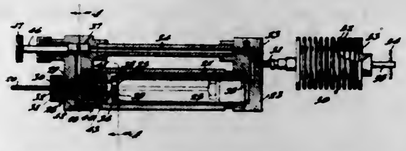
4. Ink supply means for printing mechanism comprising an ink supply well, a member for supporting an ink-container having a closed bottom in inverted position, a clamp in which said member is rotatable on a substantially horizontal axis, and means including a pipe extending substantially radially from said member and projecting downwardly into said well for providing fluid communication between the well and the ink-container.

1,945,499

BUCKY GRID ACTUATING DEVICE

Edwin S. Flarsheim, Cincinnati, Ohio, assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio, a corporation of Ohio

Application March 2, 1932. Serial No. 596,300
10 Claims. (Cl. 250—34)



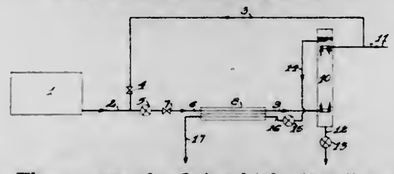
1. A mechanism for controlling the speed of motion of a bucky grid, comprising, a cylinder, a piston in said cylinder, a passageway connecting between the ends of said cylinder, a rod connected to said piston and extending through one end of said cylinder only, packing about said rod adapted to prevent leakage of a liquid in the cylinder, and a metal bellows in connection with the interior of said cylinder, said cylinder, passageway, and metal bellows substantially completely filled with liquid normally at substantially atmospheric pressure.

1,945,500

METHOD OF TREATING LUBRICATING OIL STOCKS WITH LIQUID SULPHUR DIOXIDE

Wolfgang Grote, Berlin-Wilmersdorf, Germany, and Paul Obergfell, New York, N. Y., assignors to Edeleanu Gesellschaft m. b. H., a corporation of Germany

Application October 20, 1932, Serial No. 638,814, and in Germany October 29, 1931
12 Claims. (Cl. 196—37)



1. The process of refining high viscosity petroleum lubricating oil stocks with liquid-SO_2 comprising diluting the uncooled unextracted stock with SO_2 in amount substantially miscible with the stock at the extraction mixing temperature and sufficient to cause a decrease in viscosity to permit of efficient and satisfactory cooling and single-zone counter-current extraction, cooling the diluted stock to the desired extraction mixing temperature, and extracting with liquid-SO_2 in a single counter-current zone.

1,945,501

METHCD OF SEPARATING BORNEOL FROM PINE OIL

Irvin W. Humphrey, Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application July 26, 1928, Serial No. 295,616. Divided and this application March 11, 1930. Serial No. 435,026
4 Claims. (Cl. 260—153)

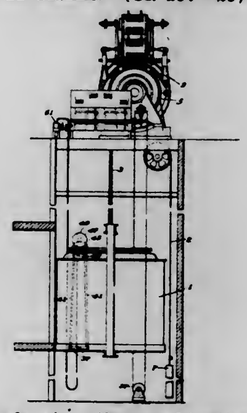
1. The method of separating borneol from pine oil, which includes subjecting pine oil to the action of hydriodic acid and fractionating the treated pine oil for the separation of borneol.

1,945,502

ELECTRIC ELEVATOR

Joseph R. Jackson, Jr., Boston, Mass.

Application April 26, 1929. Serial No. 358,219
11 Claims. (Cl. 187—29)



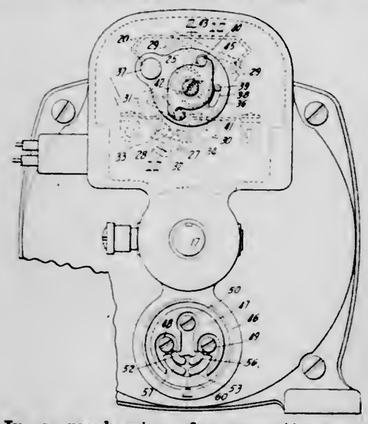
1. In an elevator, the combination of a car, an electric motor for causing the car to travel in the elevator hatchway, and means for regulating the automatic speed changes of deceleration of the car to stops at floors including a selsyn motor system having transmitting and receiving motors, and means for turning the rotor of the transmitting motor to present the system prior to travel of the car.

1,945,503

SWITCH OPERATING MECHANISM FOR ELECTRIC MOTORS

George H. Leland, Dayton, Ohio, assignor of one-half to The Leland Electric Company, Dayton, Ohio, a corporation of Ohio

Application March 31, 1932. Serial No. 602,217
24 Claims. (Cl. 200—138)



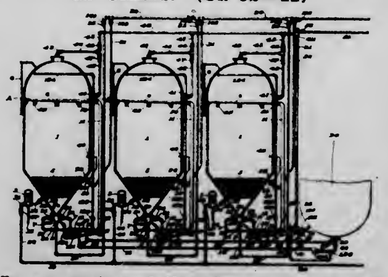
1. In a mechanism for operating a switch within a closed casing, an actuating device operatively connected with a switch, means to control the operation of said actuating device including a thermostatic element arranged within said casing, and a support for said thermostatic element movably mounted on said casing within the same and having relatively low heat conductivity.

1,945,504

TREATMENT OF DIGESTER LIQUORS

Albert D. Merrill, Watertown, N. Y.

Application July 15, 1932. Serial No. 622,619
22 Claims. (Cl. 92—11)



1. In apparatus of the character described, a digester having therein an indirect heat exchanger, conduits for supplying steam to said heat exchanger and directly to the interior of the digester, a conduit positioned without the digester and connecting therewith, means interposed in said conduit for circulating digester liquor through said conduit and through the digester, and a passage connecting said conduit and said circulating means with a storage receptacle whereby liquor may be withdrawn from said conduit and passed to said receptacle.

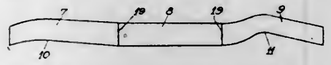
1,945,505

AUTOMOBILE CHASSIS FRAME AND METHOD OF MAKING SAME

James H. Crowe, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio

Application September 19, 1931
Serial No. 563,773
10 Claims. (Cl. 280—106)

1. An automobile chassis frame including side rails having portions thereof composed of metal possessing metallurgical structure capable of taking a body finish from the usual method for finishing body plates and possessing the requisite



elastic limits to be serviceable as a frame element, the remaining portions of the chassis rails being of different metallurgical structure.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acroplane Mfg. Corp., Salem, Oreg. Airplane amusement devices. Serial No. 322,153; Feb. 6. Class 22.

Air-Way Electric Appliance Corporation, Toledo, Ohio. Grinding wheels and polishing and buffing pads. Serial No. 343,240; Feb. 6. Class 4.

Altenkirch, Rudolf, Lausanne, Switserland. Artistic decorations in the form of metal plates. Serial No. 335,626; Feb. 6. Class 50.

American Malt Company, The, Baltimore, Md. Malt beverages. Serial No. 333,276; Feb. 6. Class 48.

American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. Serial Nos. 344,689–92; Feb. 6. Class 49.

American Medicinal Spirits Company, The, Louisville, Ky. Gin and whiskey. Serial No. 344,693; Feb. 6. Class 49.

American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. Serial Nos. 344,743–4; Feb. 6. Class 49.

Andrews, O. B., Company, Chattancoga, Tenn. Parlor board game. Serial No. 344,461; Feb. 6. Class 22.

Arney, John W., Green Bay, Wis. Toy cut-out horse's head. Serial No. 344,745; Feb. 6. Class 22.

Aronson-Caplin Company, Inc., New York, N. Y. Women's apparel. Serial No. 342,725; Feb. 6. Class 39.

Ault & Wiborg Corporation, New York, N. Y. Paints, paint enamels, varnishes, etc. Serial No. 345,194; Feb. 6. Class 16.

Baird-Taylor, Limited, Glasgow, Scotland. Jamaica rum. Serial No. 344,694; Feb. 6. Class 49.

Bamberger, L., & Co., Newark, N. J. Whiskey and other potable distilled spirits. Serial No. 345,045; Feb. 6. Class 49.

Barnhardt Brothers, Charlotte, N. C. Cotton and rayon yarn. Serial No. 345,325; Feb. 6. Class 43.

Barnhardt Brothers, Charlotte, N. C. Cotton and rayon yarn. Serial No. 345,329; Feb. 6. Class 43.

Beech-Nut Packing Company, Canajoharie, N. Y. Chewing gum. Serial No. 343,435; Feb. 6. Class 46.

Begg, John, Limited, Glasgow, Scotland. Whisky. Serial No. 344,695; Feb. 6. Class 49.

Behrens, Hans H., doing business as H. H. Behrens & Sons, Bay City, Mich. Malt. Serial No. 344,427; Feb. 6. Class 48.

Belisle, Henry P., Worcester, Mass. Eggs. Serial No. 343,940; Feb. 6. Class 46.

Bell, Arthur, and Sons, Limited, Perth, Scotland. Whisky. Serial No. 344,696; Feb. 6. Class 49.

Bennett Distilling Company. (See Cresta Blanca Company.)

Bennett Distilling Company, San Francisco, Calif. Whiskey. Serial No. 344,698; Feb. 6. Class 49.

Berkshire Knitting Mills, Wyomissing, Pa. Hosiery. Serial No. 344,630; Feb. 6. Class 39.

Berray Co., Inc., New York, N. Y. Berets and turbans. Serial No. 343,267; Feb. 6. Class 39.

Bienvenu, Rene J., Colfax, La. Medicine for the treatment of biliousness. Serial No. 344,131; Feb. 6. Class 6.

Bond, W. G., Inc., Baltimore, Md. Whiskey. Serial Nos. 344,558–9; Feb. 6. Class 49.

Bond, W. G., Inc., Baltimore, Md. Whiskey. Serial No. 344,561; Feb. 6. Class 49.

Bond, W. G., Inc., Baltimore, Md. Gin. Serial No. 344,563; Feb. 6. Class 49.

Booth, Robert, doing business as John Somerville & Company, Glasgow, Scotland. Whiskey. Serial No. 344,501; Feb. 6. Class 49.

C. T. Electric Company, Jackson, Mich. Portable electric heaters. Serial No. 343,976; Feb. 6. Class 21.

Cabrera y Garcia, Manuel, Habana, Cuba. Wines. Serial No. 344,756; Feb. 6. Class 47.

Carbo-Fung Chemical Laboratories, Los Angeles, Calif. Fungicide and bactericide. Serial No. 344,502; Feb. 6. Class 6.

Castle & Co., Limited, London, England. Whisky. Serial No. 343,583; Feb. 6. Class 49.

Centa Trading Corporation, New York, N. Y. Mirrors. Serial No. 345,007; Feb. 6. Class 32.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial Nos. 344,503–4; Feb. 6. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,506; Feb. 6. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Gin. Serial No. 344,508; Feb. 6. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,509; Feb. 6. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial Nos. 344,511–12; Feb. 6. Class 49.

Clark, James, Distilling Corporation Jersey City, N. J. Whiskey. Serial Nos. 344,514–15; Feb. 6. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,517; Feb. 6. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial Nos. 344,519–20; Feb. 6. Class 49.

Clark James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,832; Feb. 6. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,834; Feb. 6. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,966; Feb. 6. Class 49.

Clivette, Juanyta, New York, N. Y. Base metal, porcelain, and clay statuettes. Serial No. 337,154; Feb. 6. Class 50.

Coast Fishing Co., Inc., Wilmington, Calif. Animal food. Serial No. 344,468; Feb. 6. Class 46.

Colonial Distilling & Distributing Corporation, New York, N. Y. Whiskey. Serial No. 344,837; Feb. 6. Class 49.

Colonial Distilling & Distributing Corporation, New York, N. Y. Whiskey. Serial No. 345,462; Feb. 6. Class 49.

Columbia Pictures Corporation, New York, N. Y. Motion-picture films. Serial No. 344,522; Feb. 6. Class 26.

Connecticut Distilleries, Inc., Nash's Corners, Westport, Conn. Brandy. Serial No. 344,763; Feb. 6. Class 49.

Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, etc. Serial No. 344,929; Feb. 6. Class 49.

Continental Pure Products Co., The. (See Polefsky, Jacob S.)

Corn Products Refining Company, New York, N. Y. Publication. Serial No. 345,332; Feb. 6. Class 38.

Cotton Club Beverage Co. (See Miller Becker Co., The.)

Cresta Blanca Company, doing business as Bennett Distilling Company, San Francisco, Calif. Whisky and other potable distilled spirits. Serial Nos. 344,839–41; Feb. 6. Class 49.

Cuervo, Jose. (See de Cuervo, Ana G. R. V.)

Daymitsha Padding Company, Canton, Mass. Padding for ironing and pressing appliances. Serial No. 345,151; Feb. 6. Class 24.

De Botelho, Martin, New York, N. Y. Perfumes. Serial No. 343,819; Feb. 6. Class 6.

Decker, Kenneth. (See Lansing, J. B., and Decker.)

De Cuervo, Ana G. R. V., doing business as Jose Cuervo, Mexico, Mexico. Brandy. Serial Nos. 343,317–18; Feb. 6. Class 49.

Deep Rock Oil Corporation, Tulsa, Okla. Gasoline. Serial No. 341,790; Feb. 6. Class 15.

De Journo, Ernest, New York, N. Y. Cognac and brandy. Serial No. 344,713; Feb. 6. Class 49.

Delco-Products Corporation, Dayton, Ohio. Fluid for shock absorbers, brakes, and the like. Serial No. 344 048; Feb. 6. Class 6.

De Ruyter, Georges, Paris, France. (See D'Haese, Pierre J.)

De Satrustegui y Fernandez Carlos, Madrid, Spain. Wines. Serial No. 344,827; Feb. 6. Class 47.

De Wandre, Robert Paris, France. Shaving cream, toilet soap, and shaving soap. Serial No. 344,715; Feb. 6. Class 4.

D'Haese, Pierre J., assignor to Georges de Ruyter, of Paris, France, Paris France. Wine. Serial No. 337,507; Feb. 6. Class 47.

Distillers Products Corporation of America, New York, N. Y. Whiskey, gin, brandy, etc. Serial No. 344,623; Feb. 6. Class 49.

Dixon, William, Incorporated, Newark, N. J. Electric motor attachments, chisels, knives, etc. Serial No. 341,081; Feb. 6. Class 23.

E. H. J. Products. (See Jones, Elizabeth C.)

Eastman Gelatine Corporation, Peabody, Mass. Gelatine. Serial No. 344,969; Feb. 6. Class 46.

Esslinger's, Inc., Philadelphia, Pa. Malt beverages. Serial No. 345,198; Feb. 6. Class 48.

Eucathol Company, Inc., The, Shawnee, Okla. Ointment. Serial No. 344,931; Feb. 6. Class 6.

Falconer, M. D., Anaheim, Calif. Preparation to produce a laxative effect. Serial No. 340,116; Feb. 6. Class 6.

Feldman, Irving J., doing business as Three Little Pigs Beret Company, New York, N. Y. Hats, berets, and scarfs. Serial No. 343,645; Feb. 6. Class 39.

Feldmann, Theodore R., New York, N. Y. Maltless beverages and syrups and extracts for making same. Serial No. 344,718; Feb. 6. Class 45.

Filtrol Company of California, Los Angeles, Calif. Lubricating oil. Serial No. 344,776; Feb. 6. Class 15.

Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 344,144; Feb. 6. Class 49.

Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 344,895; Feb. 6. Class 49.

Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled liquors. Serial No. 345,100; Feb. 6. Class 49.

Ford Pharmacal Company, The, Cleveland, Ohio. Medicinal preparation for the treatment of eczema, acne, etc. Serial No. 342,796; Feb. 6. Class 6.

Ford Pharmacal Company, The, Cleveland, Ohio. Medicinal preparation for the treatment of colds and muscular pains, etc. Serial No. 342,797; Feb. 6. Class 6.

Freedman, Jack & Jules, New York, N. Y. Dresses. Serial No. 323,397; Feb. 6. Class 39.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Friedel, Louis J., doing business as Magical Manufactures, New York, N. Y. Bags, boxes, and chests of magic tricks, puzzles, and card games. Serial No. 344,265; Feb. 6. Class 22.

Friedman, Keller & Company, Incorporated, Paducah, Ky. Gin. Serial No. 345,014; Feb. 6. Class 49.

Friedman, Keller & Company, Incorporated, Paducah, Ky. Whiskies. Serial Nos. 345,015–16; Feb. 6. Class 49.

Friedman, Keller & Company, Incorporated, Paducah, Ky., Whiskies. Serial No. 345,018; Feb. 6. Class 49.

Frigidaire Corporation, Dayton, Ohio. Air cooling and circulating units. Serial No. 344,897; Feb. 6. Class 34.

General Wines & Spirits Corporation, Dover, Del., and New York, N. Y. Whiskey, gin, rum, and brandy. Serial No. 344,902; Feb. 6. Class 49.

Gibbs & Company, Baltimore, Md. Canned fruits, vegetables, soups, etc. Serial No. 342,475; Feb. 6. Class 46.

Goldman, Nathan, New York, N. Y. Electronic tubes for radios. Serial No. 344,935; Feb. 6. Class 21.

Gottesman and Company, Incorporated, New York, N. Y. Wood pulp. Serial No. 344,270; Feb. 6. Class 1.

Grant, W. T., Company, New York, N. Y. Soap. Serial No. 344,320; Feb. 6. Class 4.

Greenberg, Isadore N., doing business as Morton Shirt Company, Philadelphia, Pa. Shirts. Serial No. 343,668; Feb. 6. Class 39.

Greenhill & Daniel, Inc., Brooklyn, N. Y. Piece goods and combinations thereof. Serial No. 336,116; Feb. 6. Class 42.

Halper, Victor, doing business as Remogland Chemical Company, New York, N. Y. Glandular tonics. Serial No. 332,297; Feb. 6. Class 6.

Handelsvennootschap onder de firma Catz & Zoon van Pekela, Groningen, Netherlands. Distilled bitters. Serial No. 339,309; Feb. 6. Class 49.

Handelsvennootschap onder de firma Catz & Zoon van Pekela, Groningen, Netherlands. Distilled bitters. Serial No. 339,311; Feb. 6. Class 49.

Harvard Brewing Co., Lowell, Mass. Malt beverages. Serial No. 339,524; Feb. 6. Class 48.

Hawker, James, & Co., Limited, Plymouth, England. Gin, whiskey, brandy, etc. Serial No. 343,452; Feb. 6. Class 49.

Hawker, James, & Co., Limited, Plymouth, England. Port wine, sherry, and other wines. Serial No. 344,271; Feb. 6. Class 47.

Hoelscher, Wm., & Co., San Francisco, Calif. Brandy, vermouths, cordials, etc. Serial No. 345,055; Feb. 6. Class 49.

Hollingshead, R. M., Co., The, Camden, N. J. Emery, metal polish, soap, etc. Serial No. 332,389; Feb. 6. Class 4.

Hollywood Marvel Products Co., Los Angeles, Calif. Shaving soap and turtle oil soap. Serial No. 342,807; Feb. 6. Class 4.

Hudson Motor Car Company, Detroit, Mich. Lubricating oils and greases. Serial No. 343,735; Feb. 6. Class 15.

Huffman Manufacturing Company, The, Dayton, Ohio. Bicycles and parts therefor. Serial Nos. 345,161–2; Feb. 6. Class 19.

Hyde, Fred W., doing business as Rochester Nut Shop, Rochester, N. Y. Candy and prepared nuts. Serial No. 338,974; Feb. 6. Class 46.

Jacobs, Irving M., doing business as Pacific Imperial Co., Los Angeles, Calif. Gin. Serial No. 344,786; Feb. 6. Class 49.

Jantzen Knitting Mills, Portland, Oreg. Swimming suits. Serial No. 345,257; Feb. 6. Class 39.

Jason Laboratories, Brooklyn, N. Y. Scalp compound. Serial No. 344,527; Feb. 6. Class 6.

Jewel Tea Co., Inc., Barrington, Ill. Starch, powdered ammonia, and laundry tablets. Serial No. 336,387; Feb. 6. Class 6.

Jones, Elizabeth C., doing business as E. H. J. Products, Daytona Beach, Fla. Preparation for the treatment of piles. Serial No. 344,536; Feb. 6. Class 6.

Kabushiki-Kaisha Takeda Chobei Shoten, Osaka, Japan. Preparation for the treatment of pneumonia. Serial No. 341,292; Feb. 6. Class 6.

Kalamazoo Vegetable Parchment Company, Parchment, Mich. Wrapping paper. Serial No. 343,209; Feb. 6. Class 37.

Kaylene, Limited, London, England. Medicated preparation. Serial No. 344,403; Feb. 6. Class 6.

Kayser, Julius, & Co., New York, N. Y. Hosiery. Serial No. 345,025; Feb. 6. Class 39.

Kellerman, Albert, doing business as Albert Kellerman & Son, New York, N. Y. Whiskey. Serial Nos. 344,192–3; Feb. 6. Class 49.

Kenny, C. D., Company, Baltimore, Md. Gelatine dessert. Serial No. 344,477; Feb. 6. Class 46.

Kent, Roger, Inc., New York, N. Y. Men's wearing apparel. Serial Nos. 345 059–60; Feb. 6. Class 39.

Keystone Lubricating Company, Philadelphia, Pa. Chemical preparation for preventing metal from rusting. Serial No. 344,656; Feb. 6. Class 6.

Kleinert, I. B., Rubber Company, New York, N. Y. Sanitary baby pants, step-ins, and aprons. Serial No. 313,040; Feb. 6. Class 44.

Knox Company, The, Kansas City, Mo. Cream preparation for sunburn, chafing, etc. Serial No. 333,434; Feb. 6. Class 6.

Kolmar, Inc., Cincinnati, Ohio. Whiskey, brandy, gin, etc. Serial No. 344,976; Feb. 6. Class 49.

Kolmar, Inc., Cincinnati, Ohio. Wines. Serial No. 345,205; Feb. 6. Class 47.

Kolmar, Inc., Cincinnati, Ohio. Whiskey, brandy, gin, etc. Serial No. 345,206; Feb. 6. Class 49

L. A. Pacific Macaroni Co., Los Angeles, Calif. Macaroni, spaghetti, and noodles of all kinds. Serial No. 345,261; Feb. 6. Class 46.

Lansing, James B., and K. Decker, doing business as Russellite Mfg. Co., Ltd., Los Angeles, Calif. Electrical road lamps and automobile headlights. Serial No. 328,760; Feb. 6. Class 21.

Lanza, James J., doing business as Lanza Wine Co., San Francisco, Calif. Wines. Serial No. 344,285; Feb. 6. Class 47.

Larsen, J. R., & Co., Société à Responsabilité Limitée, Cognac, France. Brandy. Serial No. 344,337; Feb. 6. Class 49.

Lawson, William P., doing business as Maryland Hunt Club Distilling Company, Baltimore, Md. Whiskey. Serial No. 342,158; Feb. 6. Class 49.

Les Heritiers de Marie Brizard & Roger, Achard, Glotin & Cie, Bordeaux, France. Apricot brandy. Serial No. 344,857; Feb. 6. Class 49.

Levy Bros. & Adler Rochester, Inc., Rochester, N. Y. Linen suits, knickers, and trousers. Serial No. 332,458; Feb. 6. Class 39.

Lippman, Minna F., Teaneck, N. J. Whiskey. Serial No. 343,659; Feb. 6. Class 49.

Love, Joseph, Inc., New York, N. Y. Dresses and topcoats. Serial No. 345,305; Feb. 6. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Bicycles. Serial No. 345,068; Feb. 6. Class 19.

Magical Manufactures. (See Friedel, Louis J.)

Maison Geisweiller & Fils, Societe Anonyme, Nuits-St.-Georges, France. Wine. Serial No. 344,539; Feb. 6. Class 47.

Manitou Mineral Water Co., The, Colorado Springs and Denver, Colo. Maltless beverages and natural mineral water. Serial No. 341,333; Feb. 6. Class 45.

Marcalus Manufacturing Company, Inc., doing business as Thrifty Co., Bloomfield, N. J. Waxed paper. Serial No. 340,090; Feb. 6. Class 37.

Mareschal & Cie, Reims France. Champagne wines and sparkling wines. Serial No. 343,515; Feb. 6. Class 47.

Marvin & Snead, Inc., New York, N. Y. Whiskey. Serial Nos. 344,911–12; Feb. 6. Class 49.

Maryland Hunt Club Distilling Company. (See Lawson, William P.)

Mediterranean Importing Co., Inc., New York, N. Y. Wines. Serial No. 344,664; Feb. 6. Class 47.

Meyer & Lange, Inc., New York, N. Y. Wines. Serial No. 344 861; Feb. 6. Class 47.

Mile End Distillery Company, Ltd., The, London, England. Whisky. Serial No. 342,485; Feb. 6. Class 49.

Miller Becker Co., The, doing business as Cotton Club Beverage Co., Cleveland, Ohio. Maltless beverages. Serial No. 345,266; Feb. 6. Class 45.

Morton Shirt Company. (See Greenberg, Isadore N.)

Naamlooze Vennootschap Gevaert Photo-Producten (Société Anonyme Photo-Produits Gevaert), Onde-God, near Antwerp, Belgium. Sensitized photographic papers, plates, films, etc. Serial No. 343,132; Feb. 6. Class 26.

North American Continental Corporation, New York, N. Y. Whiskey. Serial No. 343,739; Feb. 6. Class 49.

North American Continental Corporation, New York, N. Y. Gin. Serial No. 344,919; Feb. 6. Class 49.

Old Abbey Distilling Co. (See Tonkin Distributing Co.)

Old Colony Wine Company. (See Pafford, H. R.)

Old Kentucky Distillery, Incorporated, Louisville, Ky. Whiskey. Serial No. 344 799; Feb. 6. Class 49.

Old Quaker Company, The, New York, N. Y. Gin, whiskey, and other potable distilled spirits. Serial No. 345,033; Feb. 6. Class 49.

Olympia Brewing Co., Olympia, Wash. Malt beverages. Serial No. 344,800; Feb. 6. Class 48.

Otwell, William A., doing business as Specialty Distributors Company, Detroit, Mich. Heaters for motor vehicles. Serial No. 344,941; Feb. 6. Class 19.

Outdoor Publishing Company, New York, N. Y. Periodical publication. Serial No. 345,034; Feb. 6. Class 38.

Pacific Imperial Co. (See Jacobs, Irving M.)

Pafford, H. R., doing business as Old Colony Wine Company, Los Angeles, Calif. Brandies. Serial No. 344,801; Feb. 6. Class 49.

Paris Medicine Company, The, Wilmington, Del., and St. Louis, Mo. Nose drops. Serial No. 345,071; Feb. 6. Class 6.

Parker Brothers Inc., Portland, Maine, and Salem, Mass. Card game. Serial No. 344,605; Feb. 6. Class 22.

Parkway Baking Company, Philadelphia, Pa. Bread. Serial No. 344,544; Feb. 6. Class 46.

Pender, David, Grocery Co., Norfolk, Va. Baking powder. Serial No. 344,439; Feb. 6. Class 46.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Pennsylvania Distilling Company, Inc., doing business as Pennsylvania Distillery, Inc., Logansport, Pa., and Brooklyn, N. Y. Whiskey. Serial No. 345,435; Feb. 6. Class 49.

Pepper, Jas. E., & Company, Lexington, Ky., and New York, N. Y. Whiskey, and other potable distilled spirits. Serial No. 345,397; Feb. 6. Class 49.

Perey Manufacturing Company, Inc., New York, N. Y. Turnstiles and barriers of the rotary type. Serial No. 341,692; Feb. 6. Class 23.

Pevely Dairy Company, St. Louis, Mo. Milk. Serial No. 344,204; Feb. 6. Class 46.

Pfalts & Bauer, Inc., New York, N. Y. Lanoline and emollients. Serial No. 345,035; Feb. 6. Class 6.

Piping Rock Distributors, Inc., Brooklyn, N. Y. Gin and gin essences. Serial Nos. 345,003–4; Feb. 6. Class 49.

Polefsky, Jacob S., doing business as The Continental Pure Products Co., New York, N. Y. Distilled alcoholic cordials and liqueurs. Serial Nos. 342,236–9; Feb. 6. Class 49.

Polefsky, Jacob S., doing business as The Continental Pure Products Co., New York, N. Y. Distilled alcoholic cordials and liqueurs. Serial No. 342,812; Feb. 6. Class 49.

Polefsky, Jacob S., doing business as The Continental Pure Products Co., New York, N. Y. Distilled alcoholic cordials and liqueurs. Serial Nos. 343,704–6; Feb. 6. Class 49.

Poythress, Wm. P., & Co., Inc., Richmond, Va. Intestinal detoxicant. Serial No. 343,790; Feb. 6. Class 6.

Poythress, Wm. P., & Co., Inc., Richmond, Va. Preparation for the treatment of urinary infection. Serial No. 343,792; Feb. 6. Class 6.

Price, Samuel A., doing business as Sapfire Emergency Laboratories, Atlanta, Ga. Preparation for the treatment of burns, ulcers, etc. Serial No. 332,419; Feb. 6. Class 6.

Priem, Wilhelm, & Company, G. m. b. H., Magdeburg, Germany. Carbon black. Serial No. 333,905; Feb. 6. Class 6.

Procter & Gamble Company, The, Cincinnati, Ohio. Liquid hymolal shampoo. Serial No. 344,356; Feb. 6. Class 6.

Quinex Laboratories, The. (See Zimmerman, John H.)

Ramirez José, & Co. (See Southard & Co. Ltd.)

Rational Medicines, Inc., New York, N. Y. Laxative preparation. Serial No. 344,805; Feb. 6. Class 6.

Raybestos-Manhattan, Inc., Passaic, N. J., and Bridgeport, Conn. Brake lining. Serial No. 345,073; Feb. 6. Class 35.

Remogland Chemical Company. (See Halper, Victor.)

Rich, H. S., & Co., Chicago, Ill. Publication. Serial No. 345,313; Feb. 6. Class 38.

Rochester Nut Shop. (See Hyde, Fred W.)

Rockwell-Barnes Company, Chicago, Ill. Duplicating paper. Serial No. 345,351; Feb. 6. Class 37.

Rodgers, Charles S., doing business as Rodgers Distilleries Co., Chicago, Ill. Whiskey and gin. Serial No. 344,985; Feb. 6. Class 49.

Rosenfeld, Max, Brooklyn, N. Y. Suits, topcoats, and overcoats. Serial No. 344,294; Feb. 6. Class 39.

Russellite Mfg. Co., Ltd. (See Lansing, James B., and Decker.)

Ryan Coffee Corporation, New York, N. Y. Coffee. Serial No. 343,882; Feb. 6. Class 46.

Sapfire Emergency Laboratories. (See Price, Samuel A.)

Schenley Products Co., Inc., New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 344 730; Feb. 6. Class 49.

Schenley Products Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 344,989; Feb. 6. Class 49.

Schuylkill Valley Mills, Inc., Spring City, Pa. Hosiery. Serial No. 344,548; Feb. 6. Class 39.

Servel, Inc., New York, N. Y. Refrigerators and parts thereof and refrigerating systems. Serial No. 345,074; Feb. 6. Class 31.

Serv-O-Draft Corporation, Detroit, Mich. Beverage dispensing flasks and coolers therefor. Serial No. 344,990; Feb. 6. Class 2.

Sheffield Mfg. Corp, Irvington, N. J. Safety-razor blades. Serial No. 344,206; Feb. 6. Class 23.

Shepherd, Simpson, & Sons Limited, Aberdeen, Scotland. Whisky. Serial No. 344,410; Feb. 6. Class 49.

Silten, Ernst, Berlin, Germany. Substances for treatment of sinus discomforts. Serial No. 344,118; Feb. 6. Class 6.

Simons, Ernest, Manufacturing Co. Inc., Port Chester, N. Y. Pajamas and nightshirts for men and boys. Serial No. 342,552; Feb. 6. Class 39.

Simson, Herman, doing business as H. Simson Company, New York, N. Y. Strings for musical instruments and musical instruments. Serial No. 344,742; Feb. 6. Class 36.

Smith, Dorothy A., New York, N. Y. Medicinal preparation for the relief of pain in headaches, etc. Serial No. 344,064; Feb. 6. Class 6.

Smith, E. M., Co., Los Angeles, Calif. Brake lining. Serial No. 341,443; Feb. 6. Class 35.

Snow-King Baking Powder Co., The, Cincinnati, Ohio. Baking soda. Serial No. 343,794; Feb. 6. Class 6.

Societe Anonyme Coloniale Ernest Lambert & Cie, Neuilly-sur-Seine, France. Rum. Serial No. 344,923; Feb. 6. Class 49.

Societe Anonyme de la Grande Distillerie E. Gusenier Fils Aine & Cie, Paris, France. Creme de menthe. Serial No. 344,873; Feb. 6. Class 49.

Società Italiana Pirelli, Milan, Italy. Tires, inner tubes, conveyer belts, etc. Serial No. 336,463; Feb. 6. Class 35.

Società Italiana Pirelli, Milan, Italy. Tires, inner tubes, conveyer belts, etc. Serial No. 336,468; Feb. 6. Class 35.

Somerville, John, & Company. (See Booth, Robert.)

Southard & Co. Ltd., doing business as José Ramirez & Co., London, England. Sherry. Serial No. 342,242; Feb. 6. Class 47.

Specialty Distributors Company. (See Otwell, William A.)

Stahl-Meyer, Inc., New York, N. Y. Ham. Serial No. 342,204; Feb. 6. Class 46.

Standard Oil Company of New Jersey, Wilmington, N. J. Penetrating, separator, and machine oil. Serial No. 339,647; Feb. 6. Class 15.

Standard Pulp Products Co., Inc., New York, N. Y. Plates and dishes. Serial No. 345,229; Feb. 6. Class 2.

Stewart-Warner Corporation, Chicago, Ill. Radio receiving sets. Serial No. 344,447; Feb. 6. Class 21.

Strohmeyer & Arpe Company, New York, N. Y. Gin. Serial Nos. 343,802–3; Feb. 6. Class 49.

Structural Gypsum Corporation, New York, N. Y. Cementitious material for finishing wall, ceiling, etc. Serial No. 343,096; Feb. 6. Class 12.

Swedish Chamber of Commerce of the U. S. A., The, New York, N. Y. Monthly magazine. Serial No. 345,043; Feb. 6. Class 38.

Thorer & Company, Leipzig, Germany. Dyed skins. Serial No. 321,832; Feb. 6. Class 1.

Thoroughbred Remedy Company, Elmont, N. Y. Liniment for man or beast. Serial No. 344,240; Feb. 6. Class 6.

Three Little Pigs Beret Company. (See Feldman, Irving J.)

Thrifty Co. (See Marcalus Manufacturing Company.)

Tonkin Distributing Co., San Francisco, Calif. Gin and other potable distilled spirits. Serial No. 344,818; Feb. 6. Class 49.

Tonkin Distributing Co., doing business as Old Abbey Distilling Co., San Francisco, Calif. Gin and other potable distilled spirits. Serial No. 344,817; Feb. 6. Class 49.

Trager, Isaac N., Cincinnati, Ohio. Whiskey. Serial No. 344,963; Feb. 6. Class 49.

Train & McIntrye, Limited, Glasgow, Scotland. Whiskey. Serial Nos. 344,611–12; Feb. 6. Class 49.

United Distillers Corporation, New York, N. Y. Brandy, gin, whiskey, etc. Serial No. 342,501; Feb. 6. Class 49.

Viviny Perfumers, Inc., West Haven, Conn. Creams and lotions, deodorants, etc. Serial No. 344,734; Feb. 6. Class 6.

Viviny Perfumers, Inc., doing business as Viviny Perfumers, West Haven, Conn. Laxatives. Serial No. 344,735; Feb. 6. Class 6.

Vollrath Co., The, Sheboygan, Wis. Culinary utensils. Serial No. 344,820; Feb. 6. Class 13.

Walker, Hiram, & Sons, Inc., Peoria, Ill. Whisky and/or other potable distilled spirits. Serial Nos. 344,903–4; Feb. 6. Class 49.

Wesco Foods Company, Cincinnati, Ohio. Butter. Serial No. 345,131; Feb. 6. Class 46.

West Indies Liquor Corporation, New Orleans, La. Rum. Serial No. 344,997; Feb. 6. Class 49.

West's Sea Vegetables, Inc., Baltimore, Md. Powdered food supplements. Serial No. 339,993; Feb. 6. Class 46.

White, Robert C., Company, Philadelphia, Pa. Insect spray. Serial No. 344,739; Feb. 6. Class 6.

Wiemann, Geo. F., Co. Inc., New York, N. Y. Coffee. Serial No. 320,522; Feb. 6. Class 46.

Wilkinson, Gaddis & Co., Newark, N. J. Champagne and wines. Serial No. 345,231; Feb. 6. Class 47.

Willson Products, Inc., Reading, Pa. Ophthalmic mountings and parts thereof and lenses. Serial No. 332,941; Feb. 6. Class 26.

Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Pulp. Serial No. 341,510; Feb. 6. Class 1.

Zimmerman, John H., doing business as The Quinex Laboratories, Garrett, Ind. Preparation for the treatment of quinsy, canker, etc. Serial No. 344,072; Feb. 6. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Acidifying substances. 309,991; Feb. 6; Serial No. 341,226; published Nov. 7, 1933. Class 6.

Aluminum Company of America, Pittsburgh, Pa. Aluminum sand mold and permanent mold castings, aluminum billets and ingots, etc. 309,886; Feb. 6; Serial No. 342,461; published Nov. 28, 1933. Class 14.

American Chemical Paint Company, Lower Gwynedd, Pa. Chemical used for rust-proofing metal objects. 309,850; Feb. 6; Serial No. 340,635; published Nov. 14, 1933. Class 6.

American Enka Corporation, Asheville, N. C. Rayon yarns. 309,925; Feb. 6; Serial No. 336,973; published June 27, 1933. Class 43.

American Hide and Leather Company, Boston, Mass. Calf leather. 309,891; Feb. 6; Serial No. 342,308; published Nov. 28, 1933. Class 1.

Asbach & Co. Aktiengesellschaft, Rudesheim-on-the-Rhine, Germany. Liquors. 310,037; Feb. 6. Class 49.

Atlas Mills, Inc., New York, N. Y. Textile fabrics. 309,981; Feb. 6; Serial No. 341,449; published Nov. 21, 1933. Class 42.

Autopoint Company, Chicago, Ill. Writing implements. 309,966; Feb. 6; Serial No. 342,567; published Nov. 28, 1933. Class 37.

Baker Clothes, Inc., Philadelphia, Pa. Men's and boys' suits. 309,879; Feb. 6; Serial No. 341,820; published Nov. 21, 1933. Class 39.

Bangor Hosiery Co., Bangor, Pa. Hosiery. 309,964; Feb. 6; Serial No. 342,609; published Nov. 28, 1933. Class 39.

Barnes Pharmacal Co., Newark, N. J. Preparation for hay fever. 309,993; Feb. 6; Serial No. 341,721; published Nov. 14, 1933. Class 6.

Bila-Sol Co. (See Fincher, Thornton M.)

Bilhuber, E., Inc., Jersey City, N. J. Medicinal compound. 309,916; Feb. 6; Serial No. 338,510; published Nov. 21, 1933. Class 6.

Bloomingdale Bros., Inc., New York, N. Y. Woven floor rugs. 309,866; Feb. 6; Serial No. 34,948; published Nov. 21, 1933. Class 42.

Blough Manufacturing Co., Inc., Harrisburg, Pa. Gymnasium, athletic, and camp clothing. 309,933; Feb. 6; Serial No. 340,912; published Nov. 21, 1933. Class 39.

Blum, D., & Co. Inc., New York, N. Y. Dry-cleaning fluids. 309,995; Feb. 6; Serial No. 341,712; published Nov. 28, 1933. Class 4.

Boeger Bros. Products Company, St. Louis, Mo. Noodles in alphabet form, beans, shelled lentils, etc. 309,986; Feb. 6; Serial No. 341,271; published Nov. 21, 1933. Class 46.

Brown, Roy B., doing business as Crown of Youth Co., Pensacola, Fla. Hair pomade. 309,874; Feb. 6; Serial No. 341,802; published Nov. 21, 1933. Class 6.

Buchanan, Wm., doing business as William Buchanan Company, Cincinnati, Ohio. Substance for case hardening metals. 309,861; Feb. 6; Serial No. 341,722; published Nov. 28, 1933. Class 6.

Bush-Myers, Fiborn Quarry, Mich. Preparation for the treatment of pyorrhea, trench mouth, tonsilitis, etc. 310,015; Feb. 6; Serial No. 341,007; published Nov. 28, 1933. Class 6.

Camel Lead Color & Chemical Products Mfg. Corp., Brooklyn, N. Y. Paints, colors in oil, varnishes and water paints. 309,872; Feb. 6; Serial No. 341,912; published Nov. 21, 1933. Class 16.

Carman & Co., Inc., New York, N. Y. Soap. 309,920; Feb. 6; Serial No. 337,688; published Nov. 28, 1933. Class 4.

Central Mens Stores, Inc., doing business as Sarnoff-Irving, New York, N. Y. Men's shirts. 310,016; Feb. 6; Serial No. 342,152; published Nov. 21, 1933. Class 39.

Cherokee Spinning Company, Knoxville, Tenn. Men's and boys' outer wearing apparel. 309,984; Feb. 6; Serial No. 341,395; published Nov. 21, 1933. Class 39.

Chipman's, Chas., Sons Co. Inc., New York, N. Y. Hosiery. 310,026; Feb. 6; Serial No. 342,027; published Nov. 28, 1933. Class 39.

Chitty & Co., Jacksonville, Fla. Coffee, canned vegetables and fruits, jellies, etc. 309,855; Feb. 6; Serial No. 340,219; published Nov. 21, 1933. Class 46.

Chitty & Co., Jacksonville, Fla. Canned vegetables, canned sauerkraut, catsup, coffee, etc. 309,856; Feb. 6; Serial No. 340,220; published Nov. 28, 1933. Class 46.

Clarke, John L., doing business as Seavigor Company, New York, N. Y. Natural dehydrated kelp in tablet form. 310,008; Feb. 6; Serial No. 341,543; published Nov. 7, 1933. Class 6.

Closure Service Company, The, Toledo, Ohio. Closure caps for bottles and jars. 309,885; Feb. 6; Serial No. 342,425; published Nov. 28, 1933. Class 50.

Cochran Company, The, Cleveland, Ohio. Silverware polish, cleaning compounds. 309,852; Feb. 6; Serial No. 340,519; published Nov. 28, 1933. Class 4.

Colgate-Palmolive-Peet Company, Chicago, Ill. Dental cream. 310,023; Feb. 6; Serial No. 342,066; published Nov. 21, 1933. Class 6.

Colorado Milling & Elevator Co., Denver, Colo. Flour. 309,862; Feb. 6; Serial No. 341,728; published Nov. 21, 1933. Class 46.

Compound Injector & Specialty Co., Chicago, Ill. Grease and refuse separators, catch basins, etc. 309,968; Feb. 6; Serial No. 342,513; published Nov. 28, 1933. Class 13.

Cook Coffee Company, Detroit, Mich. Coffees. 309,904; Feb. 6; Serial No. 339,593; published Nov. 21, 1933. Class 46.

Courtaulds, Limited, London, England. Yarns of cellulose. 309,893; Feb. 6; Serial No. 342,261; published Nov. 28, 1933. Class 43.

Courtaulds, Limited, London, England. Yarns of cellulose. 309,896; Feb. 6; Serial No. 342,258; published Nov. 21, 1933. Class 43.

Cowell, Charles F., Washington, N. C. Potatoes. 309,860; Feb. 6; Serial No. 341,788; published Nov. 28, 1933. Class 46.

Crazy Water Hotel Company, Mineral Wells, Tex. Medicinal concentrate for making laxative water. 309,938; Feb. 6; Serial No. 340,867; published Nov. 14, 1933. Class 6.

Crown Fabrics Corporation, New York, N. Y. Rayon and cotton goods. 309,869; Feb. 6; Serial No. 341,914; published Nov. 28, 1933. Class 42.

Crown of Youth Co. (See Brown, Roy B.)

Demeranville, Robert A., Mobile, Ala. Preparation for the treatment of athlete's foot irritation. 310,013; Feb. 6; Serial No. 341,080; published Nov. 7, 1933. Class 6.

Dextora Company, Indianapolis, Ind. Malt syrup, maltose syrup, nutted malt sugar, etc. 310,035; Feb. 6. Class 46.

Dykstra, Joseph W., doing business as J. W. Dykstra & Company, Detroit, Mich. Coal. 309,890; Feb. 6; Serial No. 342,343; published Nov. 28, 1933. Class 1.

Eagle Steel Wool Company, Chicago, Ill. Steel wool. 309,940; Feb. 6; Serial No. 336,104; published Nov. 21, 1933. Class 4.

Eaton, Robert E., Des Moines, Iowa. Camphorated oil, castor oil, spirit of ammonia, etc. 309,922; Feb. 6; Serial No. 337,333; published Oct. 3, 1933. Class 6.

Egli, Carlos A., Valencia, Spain. Wines. 309,849; Feb. 6; Serial No. 340,521; published Nov. 28, 1933. Class 47.

Em-Cee Chemical Cloth Co., The, Annapolis, Md. Chemically treated cloth. 309,978; Feb. 6; Serial No. 341,479; published Nov. 28, 1933. Class 4.

Etablissements E. Bigeon Inc., New York, N. Y. Wines. 309,961; Feb. 6; Serial No. 342,748; published Nov. 28, 1933. Class 47.

Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Lead pencils. 309,883; Feb. 6; Serial No. 342,470; published Nov. 28, 1933. Class 37.

Falk Corporation, The, Milwaukee, Wis. Machinery. 310,038; Feb. 6. Class 23.

Fan-Vac Manufacturing Company, Wichita, Kans. Waterproofing preparation. 309,951; Feb. 6; Serial No. 332,766; published Nov. 7, 1933. Class 6.

Faught, Louise M., Brooklyn, N. Y. Preparation for treatment of sugar conditions in the human body. 310,009; Feb. 6; Serial No. 341,574; published Nov. 14, 1933. Class 6.

Fehr, Frank, Brewing Co., Incorporated, Louisville, Ky. Malt beverages. 310,020; Feb. 6; Serial No. 342,071; published Nov. 28, 1933. Class 48.

Feminine Products, Inc., New York, N. Y. Liquid deodorant. 309,996; Feb. 6; Serial No. 341,684; published Nov. 14, 1933. Class 6.

Fenrab Company, Inc., The, New York, N. Y. Rabbit skins. 309,892; Feb. 6; Serial No. 342,311; published Nov. 28, 1933. Class 1.

Ferdinand, E. B. Co., Inc., New York, N. Y. Hosiery. 309,958; Feb. 6; Serial No. 342,750; published Nov. 28, 1933. Class 39.

Fincher, Thornton M., doing business as Bila-Sol Co., Atlanta, Ga. Bile salts compound tablet. 309,985; Feb. 6; Serial No. 341,399; published Nov. 7, 1933. Class 6.

Finel Drug Company, Flushing, N. Y. Medicinal preparation. 309,992; Feb. 6; Serial No. 341,244; published Nov. 7, 1933. Class 6.

Founders Paint Co., Inc., Milwaukee, Wis. Cleansing preparation. 309,870; Feb. 6; Serial No. 341,921; published Nov. 21, 1933. Class 4.

Gabriel Pneumatic Vulcaniser, Incorporated, Cleveland, Ohio. Rubber vulcanizing machines or apparatus. 310,044; Feb. 6. Class 23.

Genesee Cosmetics Co., New York, N. Y. Perfumes, toilet waters, rouges, etc. 309,921; Feb. 6; Serial No. 338 000; published Nov. 28, 1933. Class 6.

Glidden, Otis E., doing business as Otis E. Glidden & Co., Evanston, Ill. Yeast cultures and agar-agar emulsion. 309,863; Feb. 6; Serial No. 341,957; published Nov. 21, 1933. Class 6.

Globe Grain and Milling Company, doing business as Globe Mills of California, Los Angeles, Calif. Cooking and salad oil. 309 858 Feb. 6; Serial No. 340,044; published Nov. 28, 1933. Class 46.

Gordon, Le Roy, Beauty Salon, Inc., Long Beach, Calif. Permanent waving solution. 309,934–5; Feb. 6; Serial Nos. 340,884–5; published Nov. 7, 1933. Class 6.

Gordon, Le Roy, Beauty Salon, Inc., Long Beach, Calif. Permanent waving solution nail polish. 309,936; Feb. 6; Serial No. 340,882; published Nov. 7, 1933. Class 6.

Gordon, Le Roy, Beauty Salon, Inc., Long Beach, Calif. Permanent waving solution. 309,937; Feb. 6; Serial No. 340,883; published Nov. 7, 1933. Class 6.

Gotham Knitting Mills, Inc., New York, N. Y. Sport garments. 309,942; Feb. 6; Serial No. 335 614; published Nov. 21, 1933. Class 39.

Goudey Gum Co., The, Boston, Mass. Chewing gum. 309,857; Feb. 6; Serial No. 341,795; published Nov. 21, 1933. Class 46.

Grant, W. T., Company, New York, N. Y. Padlocks. 309,864; Feb. 6; Serial No. 341,959; published Nov. 28, 1933. Class 25.

Grant, W. T., Company, New York, N. Y. Windshield-wiper blades. 310,030; Feb. 6; Serial No. 341,965; published Nov. 28, 1933. Class 19.

Graupner, Robert H., Harrisburg, Pa. Malt beverages. 310,021; Feb. 6; Serial No. 342,072; published Nov. 28, 1933. Class 48.

Gregg Corporation, The, Providence, R. I. Adhesive pads and plasters, bandages, and instruments. 309,851; Feb. 6; Serial No. 340,318; published Nov. 7, 1933. Class 44.

Gregg Corporation, The, Providence, R. I. Medicated adhesive bunion, callous and corn pads and medicated adhesive moleskins. 309,854; Feb. 6; Serial No. 340,317; published Nov. 14, 1933. Class 6.

Grossman, H. J., Mount Carmel, Pa. Hosiery. 309,960; Feb. 6; Serial No. 342,696; published Nov. 28, 1933. Class 39.

Hahn Department Stores, Inc., Wilmington, Del. Facial cleansing tissue paper. 309,846; Feb. 6; Serial No. 340,792; published Nov. 28, 1933. Class 37.

Hale, Desdemona P., doing business as X-Zee Products, Fort Wayne, Ind. Ointment for skin diseases. 309,930; Feb. 6; Serial No. 340 939; published Nov. 14, 1933. Class 6.

Harshaw Essential Foods, Inc., Cleveland, Ohio. Beans and flour made from beans. 309,928; Feb. 6; Serial No. 318,985; published Nov. 21, 1933. Class 46.

Hatch, C. F., Company, Lowell, Mass. Paper and paperboard cartons. 310,014; Feb. 6; Serial No. 342,183; published Nov. 28, 1933. Class 2.

Hill Independent Mfg. Co., Germantown, Philadelphia, Pa. Hand-stamps. 310,033; Feb. 6. Class 37.

Hollywood Hose, Inc., New York, N. Y. Hosiery. 309,967; Feb. 6; Serial No. 342,584; published Nov. 28, 1933. Class 39.

Holtz, Louis, and Sons, Inc., Rochester, N. Y. Suits, vests pants, etc. 310,024; Feb. 6; Serial No. 342,033; published Nov. 21, 1933. Class 39.

Holtz, Louis, and Sons, Inc., Rochester, N. Y. Suits, vests, pants, etc. 310,027; Feb. 6; Serial No. 342,032; published Nov. 28, 1933. Class 39.

Horwitz, D., & Co., Inc., Chicago, Ill. Corned beef briskets. 309,946; Feb. 6; Serial No. 334,059; published Nov. 21, 1933. Class 46.

Huyck, F. C., & Sons, Rensselaer and Albany, N. Y. Blankets. 309,923; Feb. 6; Serial No. 337,469; published Nov. 28, 1933. Class 42.

Hyman, David D., doing business as Dr. Hyman's Dental Products Co., Philadelphia, Pa. Tooth powder, mouth wash, dental cream, and tooth paste. 309,847; Feb. 6; Serial No. 340,715; published Nov. 7, 1933. Class 6.

Hyman, David D., doing business as Dr. Hyman's Dental Products Co., Philadelphia, Pa. Mouth wash, tooth paste and powder, and dental suction powder. 309,848; Feb. 6; Serial No. 340,719; published Nov. 7, 1933. Class 6.

Industrial Chemical Products Co., Detroit, Mich. Chemical cleaning and detergent compounds. 310,000; Feb. 6; Serial No. 341,655; published Nov. 28, 1933. Class 6.

Ingraham, E. Company, The, Bristol, Conn. Clocks. 309,956; Feb. 6; Serial No. 342,757; published Nov. 28, 1933. Class 27.

Ingraham, E. Company, The, Bristol, Conn. Clocks. 309,959; Feb. 6; Serial No. 342,755; published Nov. 28, 1933. Class 27.

Jarvis, Anna, Philadelphia, Pa. Trading-slips, tags, labels, blotters, etc. 97,859; renewed June 23, 1934.

Johnson & Johnson, New Brunswick, N. J. Germicidal soap. 310,031; Feb. 6; Serial No. 341,973; published Nov. 21, 1933. Class 4.

Jones Products Co., Chicago, Ill. Insecticide. 309,979; Feb. 6; Serial No. 341,481; published Nov. 14, 1933. Class 6.

Josey-Miller Company, Inc., Beaumont, Tex. Mixed feeds, hominy feeds, corn meal, green meal, etc. 310,001; Feb. 6; Serial No. 341,657; published Nov. 28, 1933. Class 46.

Justrite Company, The, Milwaukee, Wis. Bird bitters, antiseptic cage cleaner and lice destroyer, fish tonic, etc. 309,853; Feb. 6; Serial No. 340,225; published Nov. 7, 1933. Class 6.

Kem-Rite Laboratories. (See Smith, J. Miller.)

Kinloch, Charles, & Co. Limited, London, England. Wines. 309,965; Feb. 6; Serial No. 342,651; published Nov. 28, 1933. Class 47.

Knox Company, The, Kansas City, Mo. Medicine. 310,012; Feb. 6; Serial No. 341,024; published Nov. 14, 1933. Class 6.

Kondner Products Company, Baltimore, Md. Composition for cleaning the hands, bath tubs, sinks, etc. 309,962; Feb. 6; Serial No. 342,653; published Nov. 28, 1933. Class 4.

Koppers Company, The, now by change of name The Koppers Company of Delaware, Pittsburgh, Pa. Coke. 309,901; Feb. 6; Serial No. 316,040; published Nov. 28, 1933. Class 1.

Kraft-Phenix Cheese Corporation, Chicago, Ill. Cheese. 309,877; Feb. 6; Serial No. 341,867; published Nov. 28, 1933. Class 46.

Krebs Pigment & Color Corporation, Newark, N. J. Paint pigments. 310,002–3; Feb. 6; Serial Nos. 341,632–3; published Nov. 28, 1933. Class 16.

Krebs Pigment & Color Corporation, Newark, N. J. Paint pigments. 310,004–5; Feb. 6; Serial Nos. 341,601–2; published Nov. 28, 1933. Class 16.

Krug, Jos., doing business as Krug & Co., Reims, France. Champagne wines. 309,963; Feb. 6; Serial No. 342,655; published Nov. 28, 1933. Class 47.

Kunze, Otto, Oberlungwitz, Germany. Hosiery. 309,926; Feb. 6; Serial No. 327,798; published Nov. 21, 1933. Class 39.

Kyser, E. V., doing business as The Tidy Company, Rocky Mount, N. C. Emulsive solvent cleaner. 309,909; Feb. 6; Serial No. 339,335; published Nov. 28, 1933. Class 4.

Lee and Lee Company, New York, N. Y. Noodles. 309,953; Feb. 6; Serial No. 341,128; published Nov. 28, 1933. Class 46.

Lindsay District Orange Company, Lindsay, Calif. Fresh citrus fruits. 309,950; Feb. 6; Serial No. 332,534; published June 27, 1933. Class 46.

Lockwood, Sidney W., Bayonne, N. J. Preparation for use in the treatment of coughs, colds, etc. 309,880; Feb. 6; Serial No. 341,838; published Nov. 28, 1933. Class 6.

MacDonald, James R., doing business as Plateze Chemical Co., Philadelphia, Pa. Ointment to be applied to dental plates. 309,917; Feb. 6; Serial No. 338,590; published Nov. 14, 1933. Class 6.

Maier Brewing Company, Inc., Los Angeles, Calif. Malt cereal beverage. 309,955; Feb. 6; Serial No. 341,093; published Nov. 21, 1933. Class 48.

Manganese Bronze & Brass Company, Limited, The, London, England. Ships' propellers. 309,976; Feb. 6; Serial No. 341,484; published Nov. 28, 1933. Class 19.

Marshall and Bruce Company, Nashville, Tenn. Printing and writing paper. 309,878; Feb. 6; Serial No. 341,871; published Nov. 21, 1933. Class 37.

Marshall Field Mills Corporation, Philadelphia, Pa. Rugs. 309,941; Feb. 6; Serial No. 336,124; published Nov. 28, 1933. Class 42.

Mendelsolin, Dave, New York, N. Y. Snap fasteners. 310,041; Feb. 6. Class 40.

Michelsen, H., Co. Ltd., The, New York, N. Y. Bay rum. 309,843–4; Feb. 6; Serial Nos. 340,804–5; published Nov. 7, 1933. Class 6.

Midwest Drug Company, Inc., Fort Wayne, Ind. Preparation for obesity. 309,859; Feb. 6; Serial No. 341,732; published Nov. 21, 1933. Class 6.

Miller Products Company, Rochester, N. Y. Nail polish, nail polish remover, cuticle remover, etc. 309,943; Feb. 6; Serial No. 336,101; published Nov. 28, 1933. Class 6.

Minit-Rub Corporation, St. Louis, Mo. Preparation for simple headaches, chest colds, aching joints, etc. 309,924; Feb. 6; Serial No. 336,657; published Nov. 14, 1933. Class 6.

Morris Shoe Company, Inc., New York, N. Y. Shoes. 309,998; Feb. 6; Serial No. 341,660; published Nov. 28, 1933. Class 39.

National Dixie Mills, New York, N. Y. Worsted goods in the piece. 309,989; Feb. 6; Serial No. 341,253; published Nov. 21, 1933. Class 42.

National Industrial Products Co., New York, N. Y. Automobile anti-freeze composition. 309,887; Feb. 6; Serial No. 342,399; published Nov. 28, 1933. Class 6.

National Silk Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. 309,881; Feb. 6; Serial No. 341,800; published Nov. 21, 1933. Class 39.

Nelson Knitting Company, Rockford, Ill. Hosiery. 310,017; Feb. 6; Serial No. 342,161; published Nov. 21, 1933. Class 39.

New England Sales Corporation, Bridgeport, Conn. Lead pencils. 309,969; Feb. 6; Serial No. 342,545; published Nov. 28, 1933. Class 37.

New York Pattern Company, Inc., The, New York, N. Y. Paper patterns for garments. 310,042; Feb. 6. Class 26.

Old Dutch Mills, Inc., New York, N. Y. Wines. 309,957; Feb. 6; Serial No. 342,764; published Nov. 28, 1933. Class 47.

Old Munich Brewing Company, The, Cincinnati, Ohio. Lager beer. 309,867; Feb. 6; Serial No. 341,931; published Nov. 28, 1933. Class 48.

Orange County Canners, Inc., Los Angeles and Fullerton, Calif. Canned tomato sauce. 309,977; Feb. 6; Serial No. 341,493; published Nov. 28, 1933. Class 46.

Ovendale, Robert C., Kingston, Pa. Solution for use in chromium plating. 309,910; Feb. 6; Serial No. 339,112; published Nov. 14, 1933. Class 6.

Paris Purity Coal Company, Paris, Ark. Coal. 309,952; Feb. 6; Serial No. 341,098; published Nov. 28, 1933. Class 1.

Patermann, Myro, doing business as Firma, Gebr. Patermann, Teltow, near Berlin, Germany. Organic preparation from the spleen and the reticular-end othelial system. 309,982; Feb. 6; Serial No. 341,405; published Nov. 7, 1933. Class 6.

Pearson-Douglas Company, Kansas City, Mo. Binders, folders, covers, index sheets, etc. 310,018; Feb. 6; Serial No. 342,077; published Nov. 21, 1933. Class 37.

Pfaltz & Bauer, Inc., New York, N. Y. Chemical compounds. 310,011; Feb. 6; Serial No. 341,516; published Nov. 28, 1933. Class 6.

Plateze Chemical Co. (See MacDonald, James R.)
Pollock, W. W., Milling & Elevator Company, Mexico, Mo. Wheat flour. 309,875; Feb. 6; Serial No. 341,873; published Nov. 28, 1933. Class 46.
Poloris Company, Inc., New York, N. Y. Poultices and tablets. 310,006; Feb. 6; Serial No. 341,588; published Nov. 14, 1933. Class 6.
Pond's Extract Company, New York, N. Y. Face powder. 309,987; Feb. 6; Serial No. 341,303; published Nov. 7, 1933. Class 6.
Proisy Textile Corporation, New York, N. Y. Woolen and cotton fabrics in the piece. 309,882; Feb. 6; Serial No. 341,803; published Nov. 21, 1933. Class 42.
Pros-Tone Research Laboratories. (See Wilson, Phillip W.)
Pschorrbräu Aktiengesellschaft Munchen, Munich, Germany. Malt beverage. 309,908; Feb. 6; Serial No. 339,328; published Nov. 28, 1933. Class 48.
Pschorrbräu Aktiengesellschaft Munchen, Munich, Germany. Malt beverage. 309,911; Feb. 6; Serial No. 339,327; published Nov. 28, 1933. Class 48.
Ravené, Louis, Berlin, Germany. Wines. 309,970; Feb. 6; Serial No. 341,212; published Nov. 28, 1933. Class 47.
Reicher, Jacob, Baltimore, Md. Wines. 309,884; Feb. 6; Serial No. 342,492; published Nov. 28, 1933. Class 47.
Rinda, S., doing business as S. Rianda Packing Co., Salinas, Calif. Fresh vegetables. 309,912; Feb. 6; Serial No. 339,000; published Nov. 28, 1933. Class 46.
Ridgely Food Company, The, New York, N. Y. Apple butter, beets, catsup, etc. 309,842; Feb. 6; Serial No. 340,813; published Nov. 28, 1933. Class 46.
Ritzenthaler, John, New York, N. Y. Dish, floor, dust, and polishing cloths. 309,868; Feb. 6; Serial No. 341,933; published Nov. 28, 1933. Class 29.
Robertson, J. T., Company, The, Syracuse, N. Y. Soaps. 309,939; Feb. 6; Serial No. 336,456; published Nov. 21, 1933. Class 4.
Rogers, Allen E., doing business as Allen E. Rogers Laboratories, Brooklyn, N. Y. Talcum in cream form. 309,997; Feb. 6; Serial No. 341,695; published Nov. 28, 1933. Class 6.
Rogers, Charles, New York, N. Y. Organic iron tonic. 309,918–19; Feb. 6; Serial Nos. 338,261–2; published Nov. 14, 1933. Class 6.
Ruffino, Ilario & Leopoldo, Brescia, Italy. Wines. 309,913; Feb. 6; Serial No. 339,033; published Nov. 28, 1933. Class 47.
Russell Box Company, Medford, Mass. Paper cans for ice cream, etc. 309,944; Feb. 6; Serial No. 334,500; published Nov. 28, 1933. Class 2.
Russell Manufacturing Company, The, Middletown, Conn. Brake-lining for automobile-brakes. 95,352; renewed Feb 10, 1934.
Sabatino, Pietro, New York, N. Y. Hair tonic. 310,025; Feb. 6; Serial No. 342,042; published Nov. 21, 1933. Class 6.
Salomon & Phillips, New York, N. Y., and Boston, Mass. Sealskin leather-tanned and grained on steel rolls or plates. 310,034; Feb. 6. Class 1.
San Jose Packing Co. (See Singer, Harry.)
Saratoga Springs Hydro-Therapy Laboratories, Inc., Saratoga Springs, N. Y. Concentrate of mineral salt. 309,945; Feb. 6; Serial No. 334,690; published Nov. 7, 1933. Class 6.
Sarnoff-Irving. (See Central Mens Stores, Inc.)
Schering Corporation, New York, N. Y. Medicinal preparation for the treatment of hyperacidity, ulcers of the stomach, etc. 310,007; Feb. 6; Serial No. 344,591; published Nov. 14, 1933. Class 6.
Seavigor Company. (See Clarke, John L.)
Shell Oil Company, San Francisco, Calif. Windshield wiper blades. 309,954; Feb. 6; Serial No. 342,768; published Nov. 28, 1933. Class 19.
Silica Products Corporation, New York, N. Y. Dental cream. 309,927; Feb. 6; Serial No. 331,627; published Nov. 14, 1933. Class 6.
Silica Products Corporation, New York, N. Y. Toothpaste and dentifrices. 310 019; Feb. 6; Serial No. 342,081; published Nov. 21, 1933. Class 6.
Silverman, Max, Brooklyn, N. Y. Herb tea. 309,915; Feb. 6; Serial No. 338,891; published Nov. 7, 1933. Class 6.
Silver Suds Company, Philadelphia, Pa. General household cleanser. 309,897; Feb. 6; Serial No. 342,241; published Nov. 21, 1933. Class 4.
Simmons Hardware Company, St. Louis, Mo. Paints, varnishes, stains, and paint enamels. 310,028; Feb. 6; Serial No. 341,989; published Nov. 21, 1933. Class 16.
Simon, George A., New London, Wis. Educational game. 310,022; Feb. 6; Serial No. 342,048; published Nov. 28, 1933. Class 22.
Singer, Harry, doing business as San Jose Packing Co., Brooklyn, N. Y. Olives. 309,903; Feb. 6; Serial No. 339,947; published Nov. 21, 1933. Class 46.
Smirnoff, Ste Pierre, Fls, Incorporated, New York, N. Y. Maltless fruit juices. 309,865; Feb. 6; Serial No. 341,937; published Nov. 28, 1933. Class 45.
Smith, J. Miller, doing business as Kem-Rite Laboratories, Detroit, Mich. Chemical rust preventative and cleaning compound. 309,974; Feb. 6; Serial No. 341,501; published Nov. 21, 1933. Class 6.
Southard, & Co., Limited, London, England. Wines 309,898; Feb. 6; Serial No. 342,244; published Nov. 28, 1933. Class 47.
Sperry Candy Company, Milwaukee, Wis. Candy bars. 309,876; Feb. 6; Serial No. 341,878; published Nov. 28, 1933. Class 46.
Spigel, E. H., Salinas, Calif. Fresh vegetables. 309,894; Feb. 6; Serial No. 342,291; published Nov. 28, 1933. Class 46.
Squibb, E. R., & Sons, New York, N. Y. Preparations for the treatment of pulmonary affections. 309,888; Feb. 6; Serial No. 342,409; published Nov. 21, 1933. Class 6.
Squire, John P., & Company, East Combridge, Mass. Pork. 309,999; Feb. 6; Serial No. 341,677; published Nov. 28, 1933. Class 46.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Spray oils. 309,873; Feb. 6; Serial No. 341,880; published Nov. 21, 1933. Class 6.
Steinhilber, Mame E., Philadelphia, Pa. Lotion for the skin and for chapping, wind, and sunburn. 309,906; Feb. 6; Serial No. 339,369; published Nov. 7, 1933. Class 6.
Stitzel, A. Ph., Inc., Louisville, Ky. Whiskies. 310,036; Feb. 6. Class 49.
Stubbs, Margaret, San Antonio, Tex. Liquid skin cleanser. 300,990; Feb. 6; Serial No. 341,262; published Nov. 7, 1933. Class 6.
Sun-A-Sured, Inc., Minneapois, Minn. Medicinal preparations. 309,907; Feb. 6; Serial No. 339,479; published Oct. 3, 1933. Class 6.
Sunderland, Katherine B., Danbury, Conn. Cushions for shoe vamps. 309,929; Feb. 6; Serial No. 321,449; published Feb. 21, 1933. Class 40.
Superior Feed Mills, Oklahoma City, Okla. Feeds for poultry. 310,032; Feb. 6. Class 46.
Tay-Pay Company, The, Blue Island, Ill. Scientific preparation for the treatment of ulcers. 309,963; Feb. 6; Serial No. 341,409; published Nov. 7, 1933. Class 6.
Texas Chemical Company, Houston, Tex. Chemical compound. 309,980; Feb. 6; Serial No. 341,444; published Nov. 7, 1933. Class 6.
Texas Company, The, New York, N. Y. Tire enamel, varnish, tire paint, etc. 309,902; Feb. 6; Serial No. 339,690; published Nov. 21, 1933. Class 16.
Texas Company, The, New York, N. Y. Windshield wiper assemblies, auto rear-view mirrors, etc. 309,905; Feb. 6; Serial No. 339,611; published Nov. 28, 1933. Class 19.
Tidy Company, The. (See Kyser, E. V.)
Titanium Pigment Company, Inc., New York, N. Y. Paints. 309,889; Feb. 6; Serial No. 342,326; published Nov. 28, 1933. Class 16.
Titus Nursery Company, Waynesboro, Va., and Baltimore, Md. Natural trees, shrubs, and plants. 309,949; Feb. 6; Serial No. 333,242; published Nov. 21, 1933. Class 1.
Tobias, B., Inc., New York, N. Y. Dresses. 310,039; Feb. 6. Class 39.
To-Mo-Lo Company, Inc, Baltimore, Md. Healing ointment. 310,024; Feb. 6; Serial No. 341,992; published Nov. 28, 1933. Class 6.
United Chemical Co., Inc., Kansas City, Mo. Cresol disinfectant. 309,845; Feb. 6; Serial No. 340,758; published Nov. 7, 1933. Class 6.
United Elastic Corporation, Easthampton, Mass. Hose supporter buttons. 310,040; Feb. 6. Class 40.
United States Gypsum Company, Chicago, Ill. Wall coatings. 309,914; Feb. 6; Serial No. 338,705; published Nov. 21, 1933. Class 16.
U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol for anti-freeze purposes. 309,931; Feb. 6; Serial No. 340,997; published Nov. 14, 1933. Class 6.
U. S. Industrial Chemical Co. Incorporated, Baltimore, Md., and New York, N. Y. Organic solvents. 310,010; Feb. 6; Serial No. 341,513; published Nov. 7, 1933. Class 6.
Upjohn Company, The, Kalamazoo, Mich. Vitamin concentrate for use in the treatment of vitamin deficiency. 309,975; Feb. 6; Serial No. 341,504; published Nov. 7, 1933. Class 6.
Vibo Company Inc., New York, N. Y. Ladies' hats. 309,994; Feb. 6; Serial No. 341,703; published Nov. 28, 1933. Class 39.
Victoreen, John A., doing business as Victoreen Instrument Co., Cleveland, Ohio. Instrument for measuring the strength of X-ray beams. 310,043; Feb. 6. Class 26.
Victorius, M. L., & Co., Inc., New York, N. Y. Hosiery. 309,895; Feb. 6; Serial No. 342,246; published Nov. 21, 1933. Class 39.
Webb Products Co., Inc., San Bernardino, Calif. Cement. 309,932; Feb. 6; Serial No. 340,905; published Nov. 28, 1933. Class 5.
Weyenberg Shoe Mfg. Co., Milwaukee, Wis. Shoes. 309,948; Feb. 6; Serial No. 333,133; published Nov. 21, 1933. Class 39.
Wilson, Phillip W., doing business as Pros-Tone Research Laboratories, Los Angeles, Calif. Product for treatment of prostate gland troubles. 309,988; Feb. 6; Serial No. 341,313; published Nov. 14, 1933. Class 6.
Windsor-Lloyd Products, Inc., Wilmington, Del. Anti-freeze preparation. 309,871; Feb. 6; Serial No. 341,905; published Nov. 28, 1933. Class 6.
Windsor-Lloyd Products, Inc., Wilmington, Del. Polishing and cleaning preparation. 309,899; Feb. 6; Serial No. 342,208; published Nov. 21, 1933. Class 16.

Windsor-Lloyd Products, Inc., Wilmington, Del. Dry cleaning preparation. 309,900; Feb. 6; Serial No. 342,209; published Nov. 28, 1933. Class 4.
Winget Kickernick Company, Minneapolis, Minn. Bloomers. 309,947; Feb. 6; Serial No. 334,171; published Nov. 28, 1933. Class 39.
X-Zee Products. (See Hale, Desdemona P.)
Younghusband, James L., Chicago, Ill. Face powder. 309,972; Feb. 6; Serial No. 341,507; published Nov. 14, 1933. Class 6.
Youngbusband, James L., Chicago, Ill. Lip stick. 309,973; Feb. 6; Serial No. 341,508; published Nov. 14, 1933. Class 6.
Zotos Corporation, New York, N. Y. Hair waving lotions. 309,971; Feb. 6; Serial No. 342,508; published Nov. 28, 1933. Class 6.

LIST OF REGISTRANTS OF LABELS

Alno Company, The. (See Northrup, Blanche M.)
Anestex Laboratories De-Ce Products Co. of N. Y. (See Curtis, David.)
Bird & Son, Inc., East Walpole, Mass. DH Quality Shoes for Women. For Shoes. 43,204; Feb. 6.
California Medicinal Wine Co., Los Angeles, Calif. Val Bros. Old Reserve. For Port Wine. 43,205; Feb. 6.
Curtis, David, doing business as Anestex Laboratories De-Ce Products Co. of N. Y., New York, N. Y. Anestex Dentubes. For Cartridge—Vials Filled with a Local Anesthetic for all Minor and Dental Surgical Operations. 43,206; Feb. 6.
Fredonia Products Co. Inc., Fredonia, N. Y. Old Settlement. For Wine. 43,207; Feb. 6.
Huth, Thomas E., doing business as Mighty Products, Columbus, Ohio. Sud-Z-Soff. For a Water Softener. 43,208; Feb. 6.
Mighty Products. (See Huth, Thomas E.)
Northrup, Blanche M., doing business as The Alno Company, Phoenix, Ariz. Alno. For Medicine in Liquid Form Used in the Treatment of Asthma. 43,209; Feb. 6.
Phillips Bros., Baltimore, Md. Champion. For Ginger Ale. 43,210; Feb. 6.
Standard Brands Incorporated, New York, N. Y. Chase & Sanborn's Orloff. For Tea. 43,211; Feb. 6.
Sugar-Less Candy Company, Evanston, Ill. Sugar-Less Candy. For Sugar-Less Candy. 43,212; Feb. 6.
Windsor-Lloyd Products, Inc., Wilmington, Del. L'Alglon. For a French Dry-Cleaning Preparation. 43,213; Feb. 6.

LIST OF REGISTRANTS OF PRINTS

Edwards, H. J., doing business as Whippet Blade Co., Boston, Mass. For a Fast Shave Whippet Double Edge Blade. For Safety Razor Blades. 14,552; Feb. 6.
Heileman, G., Brewing Co., La Crosse, Wis. Heileman's Old Style Lager. For Lager. 14,553; Feb. 6.
Hills Bros., San Francisco, Calif. Uniformity Puts the Dance Team in Big Time. For Coffee. 14,554; Feb. 6.
Hills Bros., San Francisco, Calif. Now, Get This, Johnny. For Coffee. 14,555; Feb. 6.
Hills Bros., San Francisco, Calif. There are 3 Reasons for the Matchless Goodness of Hills Bros Coffee (10¼×15¾). For Coffee. 14,556; Feb. 6.
Hills Bros., San Francisco, Calif. See How Hills Bros Ring the Bell 3 Times (15½×20½). For Coffee. 14,557; Feb. 6.
Hills Bros., San Francisco, Calif. Hills Bros Know the A B C's That Insure Matchless Flavor in Every Pound of Coffee (12×13). For Coffee. 14,558; Feb. 6.
Hills Bros., San Francisco, Calif. Hills Bros Know the A B C's That Insure Matchless Flavor in Every Pound of Coffee (8⅛×14¼). For Coffee. 14,559; Feb. 6.
Hills Bros., San Francisco, Calif. See How Hills Bros Ring the Bell 3 Times (12×13). For Coffee. 14,560; Feb. 6.
Hills Bros., San Francisco, Calif. See How Hills Bros Ring the Bell 3 Times (8⅛×14¼). For Coffee. 14,561; Feb. 6.
Hills Bros., San Francisco, Calif. There are 3 Reasons for the Matchless Goodness of Hills Bros Coffee (8⅛×14¼). For Coffee. 14,562; Feb. 6.
Hills Bros., San Francisco, Calif. See How Hills Bros Ring the Bell 3 Times (6×10). For Coffee. 14,563; Feb. 6.
Hills Bros., San Francisco, Calif. Hills Bros Know the A B C's That Insure Matchless Flavor in Every Pound of Coffee (6×10). For Coffee. 14,564; Feb. 6.
Hills Bros., San Francisco, Calif. There are 3 Reasons for the Matchless Goodness of Hills Bros Coffee (6×10). For Coffee. 14,565; Feb. 6.
Hills Bros., San Francisco, Calif. Funny People, These Men. For Coffee. 14,566; Feb. 6.
Hills Bros., San Francisco, Calif. The Master at Home. For Coffee. 14,567; Feb. 6.
Hills Bros., San Francisco, Calif. Rain on the Roof. For Coffee. 14,568; Feb. 6.
Hills Bros., San Francisco, Calif. Bulls and Bears. For Coffee. 14,569; Feb. 6.
Hills Bros., San Francisco, Calif. Not Going, Darling? For Coffee. 14,570; Feb. 6.
Hills Bros., San Francisco, Calif. He Can't Take It. For Coffee. 14,571; Feb. 6.
Hills Bros., San Francisco, Calif. Block That Kick. For Coffee. 14,572; Feb. 6.
Hills Bros., San Francisco, Calif. Running Guard. For Coffee. 14,573; Feb. 6.
Hills Bros., San Francisco, Calif. A New Thanksgiving Proclamation. For Coffee. 14,574; Feb. 6.
Hills Bros., San Francisco, Calif. Wolf in Cheap Clothing. For Coffee. 14,575; Feb. 6.
Magic Flote Novelty Corporation, The, Chicago, Ill. Moncardo Contract Bridge Instructor. For Contract Bridge Instructor. 14,576; Feb. 6.
Parke, Davis & Co., Detroit, Mich. Toiletries. For Toilet Preparations for Ladies. 14,577; Feb. 6.
Rowell, Rex R., Geneva, Ala. Rowell's Improved Brand Eye Water. For Eye Water Preparation. 14,578; Feb. 6.
Tonawanda Brewing Corporation, Tonawanda, N. Y. Schwab's Beer. For Beer. 14,579; Feb. 6.
Whippet Blade Co. (See Edwards, H. J.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. J. W. Dykstra. 309,890; Feb. 6; Serial No. 342,343; published Nov. 28, 1933.
Coal. Paris Purity Coal Company. 309,952; Feb. 6; Serial No. 341,098; published Nov. 28, 1933.
Coke. Koppers Company. 309,901; Feb. 6; Serial No. 316,040; published Nov. 28 1933.
Leather, Calf. American Hide and Leather Company. 309,891; Feb. 6; Serial No. 342,308; published Nov. 28, 1933.
Rabbit skins. Fenrab Company. 309,892; Feb. 6; Serial No. 342,311; published Nov. 28, 1933.
Sealskin leather-tanned and grained on steel rolls or plates. Salomon & Phillips. 310,034; Feb. 6.
Trees, shrubs, and plants, Natural. Titus Nursery Compound. 309,949; Feb. 6; Serial No. 333,242; published Nov. 21, 1933.

CLASS 2

Cans for ice cream, etc., Paper. Russell Box Company. 309,944; Feb. 6; Serial No. 334,500; published Nov. 28, 1933.
Cartons, Paper and paperboard. C. F. Hatch Company. 310,014; Feb. 6; Serial No. 342,183; published Nov. 28, 1933.

CLASS 4

Chemically treated cloth. Em-Cee Chemical Company. 309,978; Feb. 6; Serial No. 341,479; published Nov. 28, 1933.
Cleaning preparation, Dry. Windsor-Lloyd Products, Inc. 309,900; Feb. 6; Serial No. 342,209; published Nov. 28, 1933.
Cleanser, General household. Silver Suds Company. 309,897; Feb. 6; Serial No. 342,241; published Nov. 21, 1933.
Cleansing preparation. Founders Paint Co. 309,870; Feb. 6; Serial No. 341,921; published Nov. 21, 1933.
Dry cleaning fluids. D. Blum & Co. Inc. 309,995; Feb. 6; Serial No. 341,712; published Nov. 28, 1933.
Polish, cleaning compounds, Silverware. Cochran Company. 309,852; Feb. 6; Serial No. 340 519; published Nov. 28, 1933.
Preparation for cleaning the hands, bath tubs, sinks, etc. Kondner Products Company. 309,962; Feb. 6; Serial No. 342,653; published Nov. 28, 1933.
Soap. Carman & Co. 309,920; Feb. 6; Serial No. 337,688; published Nov. 28, 1933.
Soap, Germicidal. Johnson & Johnson. 310,031; Feb. 6; Serial No. 341,973; published Nov. 21, 1933.

Soaps. J. T. Robertson Company. 309,939; Feb. 6; Serial No. 336,456; published Nov. 21, 1933.
Solvent cleaner, Emulsive. E. V. Kyser. 309,909; Feb. 6; Serial No. 339,335; published Nov. 28, 1933.
Steel wool. Eagle Steel Wool Company. 309,940; Feb. 6; Serial No. 336,104; published Nov. 21, 1933.

CLASS 5

Cement. Webb Products Co. 309,932; Feb. 6; Serial No. 340,905; published Nov. 28, 1933.

CLASS 6

Acidifying substances. Abbott Laboratories. 309,991; Feb. 6; Serial No. 341,226; published Nov. 7, 1933.
Anti-freeze compositions, Automobile. National Industrial Products Co. 309,887; Feb. 6; Serial No. 342,399; published Nov. 28, 1933.
Anti-freeze preparation for automobile radiators. Windsor-Lloyd Products, Inc. 309,871; Feb. 6; Serial No. 341,905; published Nov. 28, 1933.
Bay rum. H. Michelsen Co. Ltd. 309,843–4; Feb. 6; Serial Nos. 340,804–5; published Nov. 7, 1933.
Bitters, antiseptic cage cleaner and lice destroyer, fish tonic, etc. Justrite Company. 309,853; Feb. 6; Serial No. 340,225; published Nov. 7, 1933.
Camphorated oil, castor oil, spirit of ammonia, etc. R. B. Eaton. 309,922; Feb. 6; Serial No. 337,338; published Oct. 3, 1933.
Chemical cleaning and detergent compounds. Industrial Chemical Products Co. 310,000; Feb. 6; Serial No. 341,655; published Nov. 28, 1933.
Chemical compound. Texas Chemical Company. 309,980; Feb. 6; Serial No. 341,444; published Nov. 7, 1933.
Chemical compounds. Pfaltz & Bauer, Inc. 310,011; Feb. 6; Serial No. 341,516; published Nov. 28, 1933.
Chemical rust preventative and cleaning compound. J. M. Smith. 309,974; Feb. 6; Serial No. 341,501; published Nov. 21, 1933.
Chemical used for rust proofing metal objects. American Chemical Paint Company. 309,850; Feb. 6; Serial No. 340,635; published Nov. 14, 1933.
Concrete of mineral salt. Saratoga Springs Hydro-Therapy Laboratories, Inc. 309,945; Feb. 6; Serial No. 334,690; published Nov. 7, 1933.
Cresol disinfectant. United Chemical Co. 309,845; Feb. 6; Serial No. 340,758; published Nov. 7, 1933.
Dental cream. Colgate-Palmolive-Peet Company. 310,023; Feb. 6; Serial No. 342,066; published Nov. 21, 1933.
Dental cream. Silica Products Corporation. 309,927; Feb. 6; Serial No. 331,627; published Nov. 14, 1933.
Deodorant, Liquid. Feminine Products, Inc. 309,996; Feb. 6; Serial No. 341,684; published Nov. 14, 1933.
Ethyl for anti-freeze purposes. U. S. Industrial Alcohol Co. 309,931; Feb. 6; Serial No. 340,997; published Nov. 14, 1933.
Herb tea. M. Silverman. 309,915; Feb. 6; Serial No. 338,891; published Nov. 7, 1933.
Insecticide. Jones Products Co. 309,979; Feb. 6; Serial No. 341,481; published Nov. 14, 1933.
Kelp in tablet form, Natural dehydrated. J. L. Clarke. 310,008; Feb. 6; Serial No. 341,543; published Nov. 7, 1933.
Lip stick. J. L. Younghusband. 309,973; Feb. 6; Serial No. 341,508; published Nov. 14, 1933.
Lotion for the skin and for chapping, wind and sunburn. M. E. Steinhilber. 309,906; Feb. 6; Serial No. 339,369; published Nov. 7, 1933.
Lotions, Hair waving. Zotos Corporation. 309,971; Feb. 6; Serial No. 342,508; published Nov. 28, 1933.
Medicated adhesive bunion, callous and corn pads and medicated adhesive moliskins. Gregg Corporation. 309,854; Feb. 6; Serial No. 340,317; published Nov. 14, 1933.
Medicinal compound. E. Bilhuber, Inc. 309,916; Feb. 6; Serial No. 338,510; published Nov. 21, 1933.
Medicinal concentrate for making laxative water. Crazy Water Hotel Company. 309,938; Feb. 6; Serial No. 340,867; published Nov. 14, 1933.
Medicinal preparation for the treatment of the nose and throat. Finel Drug Company. 309,992; Feb. 6; Serial No. 341,244; published Nov. 7, 1933.
Medicinal preparations. Sun-A-Sured, Inc. 309,907; Feb. 6; Serial No. 339,479; published Oct. 3, 1933.
Medicine. Knox Company. 310,012; Feb. 6; Serial No. 341,024; published Nov. 14, 1933.
Mouth wash, tooth paste and powder, and dental suction powder. D. D. Hyman. 309,848; Feb. 6; Serial No. 340,719; published Nov. 7, 1933.
Nail polish, nail polish remover, cuticle remover, etc. Miller Products Company. 309,943; Feb. 6; Serial No. 336,101; published Nov. 28, 1933.
Oils, Spray. Standard Oil Company of California. 309,873; Feb. 6; Serial No. 341,880; published Nov. 21, 1933.
Ointment. J. R. Macdonald. 309,917; Feb. 6; Serial No. 338,590; published Nov. 14, 1933.
Ointment for skin diseases. D. P. Hale. 309,930; Feb. 6; Serial No. 340,939; published Nov. 14, 1933.
Ointment, Healing. To-Mo-Lo Company. 310,029; Feb. 6; Serial No. 341,992; published Nov. 28, 1933.
Organic preparation from the spleen and the reticular-end othelial system. M. Patermann. 309,982; Feb. 6; Serial No. 341,405; published Nov. 7, 1933.
Organic solvents. U. S. Industrial Chemical Co. Incorporated. 310,010; Feb. 6; Serial No. 341,518; published Nov. 7, 1933.
Perfumes, toilet waters, rouges, etc. Genesee Cosmetic Co. 309,921; Feb. 6; Serial No. 338,000; published Nov. 28, 1933.
Permanent waving solution. Le Roy Gordon Beauty Salon, Inc. 309,934–5; Feb. 6; Serial Nos. 340,884–5; published Nov. 7, 1933.
Permanent waving solution. Le Roy Gordon Beauty Salon, Inc. 309,937; Feb. 6; Serial No. 340,883; published Nov. 7, 1933.
Permanent waving solution, nail polish. Le Roy Gordon Beauty Salon, Inc. 309,936; Feb. 6; Serial No. 340,882; published Nov. 7, 1933.
Pomade, Hair. R. B. Brown. 309,874; Feb. 6; Serial No. 341,892; published Nov. 21, 1933.
Poultices and tablets. Poloris Company. 310,006; Feb. 6; Serial No. 341,588; published Nov. 14, 1933.
Powder, Face. Pond's Extract Company. 309,987; Feb. 6; Serial No. 341,303; published Nov. 7, 1933.
Powder, Face. J. L. Younghusband. 309,972; Feb. 6; Serial No. 341,507; published Nov. 14, 1933.
Preparation for hay fever. Barnes Pharmacal Co. 309,993; Feb. 6; Serial No. 341,721; published Nov. 14, 1933.
Preparation for obesity. Midwest Drug Company. 309,859; Feb. 6; Serial No. 341,782; published Nov. 21, 1933.
Preparation for simple headaches, chest colds, aching joints, etc. Minit-Rub Corporation. 309,924; Feb. 6; Serial No. 336,657; published Nov. 14, 1933.
Preparation for the treatment of athlete's foot irritation. R. A. Demeranville. 310,018; Feb. 6; Serial No. 341,080; published Nov. 7, 1933.
Preparation for the treatment of hyperacidity, ulcers of the stomach, etc. Schering Corporation. 310,007; Feb. 6; Serial No. 341,591; published Nov. 14, 1933.
Preparation for the treatment of pulmonary affections. E. R. Squibb & Sons. 309,888; Feb. 6; Serial No. 342,409; published Nov. 21, 1933.
Preparation for the treatment of pyorrhea, trench mouth, quinsy, etc. Bush-Myers. 310,015; Feb. 6; Serial No. 341,007; published Nov. 28, 1933.
Preparation for treatment of sugar conditions in the human body. L. M. Faught. 310,009; Feb. 6; Serial No. 341,574; published Nov. 14, 1933.
Preparation for use in the treatment of coughs, colds, etc. S. W. Lockwood. 309,880; Feb. 6; Serial No. 341,838; published Nov. 28, 1933.
Product for treatment of prostate gland troubles. P. W. Wilson. 309,988; Feb. 6; Serial No. 341,313; published Nov. 14, 1933.
Salts compound tablets, Bile. T. M. Fincher. 309,985; Feb. 6; Serial No. 341,399; published Nov. 7, 1933.
Scientific preparation for the treatment of ulcers. Tay-Pay Company. 309,983; Feb. 6; Serial No. 341,409; published Nov. 7, 1933.
Skin cleanser, Liquid. M. Stubbs. 309,990; Feb. 6; Serial No. 341,262; published Nov. 7, 1933.
Solution for use in chromium plating. R. C. Ovendale. 309,910; Feb. 6; Serial No. 339,112; published Nov. 14, 1933.
Substance for case hardening metals. W. Buchanan. 309,861; Feb. 6; Serial No. 341,722; published Nov. 28, 1933.
Talcum in cream form. A. E. Rogers. 309,997; Feb. 6; Serial No. 341,695; published Nov. 28, 1933.
Tonic, Hair. P. Sabatino. 310,025; Feb. 6; Serial No. 342,042; published Nov. 21, 1933.
Tonic, Organic iron. C. Rogers. 309,918–19; Feb. 6; Serial Nos. 338,261–2; published Nov. 14, 1933.
Toothpaste and dentifrice. Silica Products Corporation. 310,019; Feb. 6; Serial No. 342,081; published Nov. 21, 1933.
Tooth powder, mouth wash, dental cream, and tooth paste. D. D. Hyman. 309,847; Feb. 6; Serial No. 340,715; published Nov. 7, 1933.
Vitamin concentrate for use in the treatment of vitamin deficiency. Upjohn Company. 309,975; Feb. 6; Serial No. 341,504; published Nov. 7, 1933.
Waterproofing preparations. Fan-Vac Manufacturing Company. 309,951; Feb. 6; Serial No. 332,766; published Nov. 7, 1933.
Yeast cultures and agar-agar emulsions. O. E. Glidden. 309,863; Feb. 6; Serial No. 341,957; published Nov. 21, 1933.

CLASS 13

Separators, catch basins, etc., Grease and refuse. Compound Injector & Specialty Co. 309,968; Feb. 6; Serial No. 342,513; published Nov. 28, 1933.

CLASS 14

Mold and permanent mold castings, aluminum billets and ingots, etc., Aluminum sand. Aluminum Company of America. 309,886; Feb. 6; Serial No. 342,461; published Nov. 28, 1933.

CLASS 16

Coatings, Wall. United States Gypsum Company. 309,914; Feb. 6; Serial No. 338,705; published Nov. 21, 1933.

Enamel, varnish, tire paint, etc., Tire. Texas Company. 309,902; Feb. 6; Serial No. 339,690; published Nov. 21, 1933.
Paint pigments. Krebs Pigment & Color Corporation. 310,002–3; Feb. 6; Serial Nos. 341,632–3; published Nov. 28, 1933.
Paint pigments. Krebs Pigment & Color Corporation. 310,004–5; Feb. 6; Serial Nos. 341,601–2; published Nov. 28, 1933.
Paints. Titanium Pigment Company. 309,889; Feb. 6; Serial No. 342,326; published Nov. 28, 1933.
Paints, colors in oil, varnishes and water paints. Camel Lead Color & Chemical Products Mfg. Corp. 309,872; Feb. 6; Serial No. 341,912; published Nov. 21, 1933.
Paints, varnishes, stains, and paint enamels. Simmons Hardware Company. 310,028; Feb. 6; Serial No. 341,989; published Nov. 21, 1933.
Polishing and cleaning preparation. Windsor-Lloyd Products, Inc. 309,899; Feb. 6; Serial No. 342,208; published Nov. 21, 1933.

CLASS 19

Ship's propellers. Manganese Bronze & Brass Company. 309,976; Feb. 6; Serial No. 341,484; published Nov. 28, 1933.
Windshield wiper assemblies, auto rear-view mirrors, etc. Texas Company. 309,905; Feb. 6; Serial No. 339,611; published Nov. 28, 1933.
Windshield wiper-blades. W. T. Grant Company. 310,030; Feb. 6; Serial No. 341,965; published Nov. 28, 1933.
Windshield wiper blades. Shell Oil Company. 309,954; Feb. 6; Serial No. 342,768; published Nov. 28, 1933.

CLASS 22

Game, Educational. G. A. Simon. 310,022; Feb. 6; Serial No. 342,043; published Nov. 28, 1933.

CLASS 23

Machinery. Falk Corporation. 310,038; Feb. 6.
Rubber vulcanizing machines or apparatus. Gabriel Pneumatic Vulcanizer, Incorporated. 310,044; Feb. 6.

CLASS 25

Padlocks. W. T. Grant Company. 309,864; Feb. 6; Serial No. 341,959; published Nov. 28, 1933.

CLASS 26

Instrument for measuring the strength of X-ray beams. J. A. Victoreen. 310,043; Feb. 6.
Patterns for garments, Paper. New York Pattern Company. 310,042; Feb. 6.

CLASS 27

Clocks. E. Ingraham Company. 309,956; Feb. 6; Serial No. 342,757; published Nov. 28, 1933.
Clocks. E. Ingraham Company. 309,959; Feb. 6; Serial No. 342,755; published Nov. 28, 1933.

CLASS 29

Cloths, Dish, floor, dust, and polishing. J. Ritzentbaler. 309,868; Feb. 6; Serial No. 341,933; published Nov. 28, 1933.

CLASS 35

Brake-lining for automobile-brakes. Russell Manufacturing Company. 95,352; renewed Feb. 10, 1934.

CLASS 37

Binders, folders, covers, index sheets, etc. Pearson-Douglas Company. 310,018; Feb. 6; Serial No. 342,077; published Nov. 21, 1933.
Paper, Facial cleansing tissue. Hahn Department Stores, Inc. 309,846; Feb. 6; Serial No. 340,792; published Nov. 28, 1933.
Paper, Printing and writing. Marshall and Bruce Company. 309,878; Feb. 6; Serial No. 341,871; published Nov. 21, 1933.
Pencils, Lead. Eberhard Faber Pencil Company. 309,883; Feb. 6; Serial No. 342,470; published Nov. 28, 1933.
Pencils, Lead. New England Sales Corporation. 309,969; Feb. 6; Serial No. 342,545; published Nov. 28, 1933.
Stamps, Hand. Hill-Independent Mfg. Co. 310,033; Feb. 6.
Trading-slips, tags, labels, blotters, etc. A. Jarvis. 97,859; renewed June 23, 1934.
Writing implements. Autopoint Company. 309,966; Feb. 6; Serial No. 342,567; published Nov. 28, 1933.

CLASS 39

Apparel, Men's and boys' outer wearing. Cherokee Spinning Company. 309,984; Feb. 6; Serial No. 341,395; published Nov. 21, 1933.
Bloomers. Winget Knickernick Company. 309,947; Feb. 6; Serial No. 334,171; published Nov. 28, 1933.
Clothing, Gymnasium, athletic, and camp. Blough Manufacturing Co. 309,933; Feb. 6; Serial No. 340,912; published Nov. 21, 1933.
Dresses. B. Tobias, Inc. 310,039; Feb. 6.
Garments, Sport. Gotham Knitting Mills, Inc. 309,942; Feb. 6; Serial No. 335,614; published Nov. 21, 1933.
Hats, Ladies'. Vibo Company Inc. 309,994; Feb. 6; Serial No. 341,703; published Nov. 28, 1933.
Hosiery. Bangor Hosiery Co. 309,964; Feb. 6; Serial No. 342,609; published Nov. 28, 1933.
Hosiery. Chas. Chipman's Sons Co. 310,026; Feb. 6; Serial No. 342,027; published Nov. 28, 1933.
Hosiery. E. B. Ferdinand Co. 309,958; Feb. 6; Serial No. 342,750; published Nov. 28, 1933.
Hosiery. H. J. Grossman. 309,960; Feb. 6; Serial No. 342,696; published Nov. 28, 1933.
Hosiery. Hollywood Hose, Inc. 309,967; Feb. 6; Serial No. 342,584; published Nov. 28, 1933.
Hosiery. O. Kunze. 309,926; Feb. 6; Serial No. 327,798; published Nov. 21, 1933.
Hosiery. National Silk Hosiery Mills, Inc. 309,881; Feb. 6; Serial No. 341,800; published Nov. 21, 1933.
Hosiery. Nelson Knitting Company. 310,017; Feb. 6; Serial No. 342,161; published Nov. 21, 1933.
Hosiery. M. L. Victorius & Co. 309,895; Feb. 6; Serial No. 342,246; published Nov. 21, 1933.
Shirts, Men's. Central Men's Stores, Inc. 310,016; Feb. 6; Serial No. 342,152; published Nov. 21, 1933.
Shoes. Morris Shoe Company. 309,998; Feb. 6; Serial No. 341,660; published Nov. 28, 1933.
Shoes. Weyenberg Shoe Mfg. Co. 309,948; Feb. 6; Serial No. 333,133; published Nov. 21, 1933.
Suits, Men's and boys'. Baker Clothes, Inc. 309,879; Feb. 6; Serial No. 341,820; published Nov. 21, 1933.
Suits, vests, pants, etc. Louis Holtz and Sons, Inc. 310,024; Feb. 6; Serial No. 342,033; published Nov. 21, 1933.
Suits, vests, pants, etc. Louis Holtz and Sons, Inc. 310,027; Feb. 6; Serial No. 342,032; published Nov. 28, 1933.

CLASS 40

Buttons, Hose supporter. United Elastic Corporation. 310,040; Feb. 6.
Cushions for shoe vamps. K. B. Sunderland. 309,929; Feb. 6; Serial No. 321,449; published Feb. 21, 1933.
Snap fasteners. D. Mendelsohn. 310,041; Feb. 6.

CLASS 42

Blankets. F. C. Huyck & Sons. 309,923; Feb. 6; Serial No. 337,469; published Nov. 28, 1933.
Fabrics, Woolen and cotton. Jroisy Textile Corporation. 309,882; Feb. 6; Serial No. 341,803; published Nov. 21, 1933.
Rayon and cotton goods. Crown Fabrics Corporation. 309,869; Feb. 6; Serial No. 341,914; published Nov. 28, 1933.
Rugs, Textile. Marshall Field Mills Corporation. 309,941; Feb. 6; Serial No. 336,124; published Nov. 28, 1933.
Rugs, Woven floor. Bloomingdale Bros., Inc. 30,866; Feb. 6; Serial No. 341,948; published Nov. 21, 1933.
Textile fabrics. Atlas Mills, Inc. 309,981; Feb. 6; Serial No. 341,449; published Nov. 21, 1933.
Worsted goods. National Dixie Mills. 309,989; Feb. 6; Serial No. 341,253; published Nov. 21, 1933.

CLASS 43

Yarns of cellulose. Courtaulds, Limited. 309,893; Feb. 6; Serial No. 342,261; published Nov. 28, 1933.
Yarns of cellulose. Courtaulds, Limited. 309,896; Feb. 6; Serial No. 342,258; published Nov. 21, 1933.
Yarns, Rayon. American Enka Corporation. 309,925; Feb. 6; Serial No. 336,973; published June 27, 1933.

CLASS 44

Adhesive pads and plasters, bandages and instruments. Gregg Corporation. 309,851; Feb. 6; Serial No. 340,318; published Nov. 7, 1933.

CLASS 45

Fruit juices. Ste Pierre Smirnoff Fls, Incorporated. 309,865; Feb. 6; Serial No. 341,937; published Nov. 28, 1933.

CLASS 46

Apple butter, beets, catsup, etc. Ridgely Food Company. 309,842; Feb. 6; Serial No. 340,813; published Nov. 28, 1933.
Beans and flour made from beans. Harshaw Essential Foods, Inc. 309,928; Feb. 6; Serial No. 318,985; published Nov. 21, 1933.
Beef briskets, Corned. D. Horwitz & Co. 309,946; Feb. 6; Serial No. 334,059; published Nov. 21, 1933.
Candy bars. Sperry Candy Company. 309,876; Feb. 6; Serial No. 341,878; published Nov. 28, 1933.
Canned tomato sauce. Orange County Canners, Inc. 309,977; Feb. 6; Serial No. 341,493; published Nov. 28, 1933.
Canned vegetables and sauerkraut, catsup, coffee, etc. Chitty & Co. 309,856; Feb. 6; Serial No. 340,220; published Nov. 28, 1933.
Cheese. Kraft-Phenix Cheese Corporation. 309,877; Feb. 6; Serial No. 341,867; published Nov. 28, 1933.
Coffee, canned vegetables and fruits, jellies, etc. Chitty & Co. 309,855; Feb. 6; Serial No. 340,219; published Nov. 21, 1933.
Coffees. Cook Coffee Company. 309,904; Feb. 6; Serial No. 339,593; published Nov. 21, 1933.
Feeds for poultry. Superior Feed Mills. 310,032; Feb. 6.
Feeds, hominy feeds, corn meal, green meal, etc., Mixed. Josey-Miller Company. 310,001; Feb. 6; Serial No. 341,657; published Nov. 28, 1933.

Flour. Colorado Milling & Elevator Co. 309,862; Feb. 6; Serial No. 341,723; published Nov. 21, 1933.
Flour, Wheat. W. W. Pollock Milling & Elevator Company. 309,875; Feb. 6; Serial No. 341,873; published Nov. 28, 1933.
Fruits, Fresh Citrus. Lindsay District Orange Company. 309,950; Feb. 6; Serial No. 332,534; published June 27, 1933.
Gum, Chewing. Goudey Gum Co. 309,857; Feb. 6; Serial No. 341,795; published Nov. 21, 1933.
Noodles. Lee and Lee Company. 309,953; Feb. 6; Serial No. 341,128; published Nov. 28, 1933.
Noodles in alphabet form, beans, shelled lentils, etc. Boeger Bros. Products Company. 309,986; Feb. 6; Serial No. 341,271; published Nov. 21, 1933.
Olives. H. Singer. 309,903; Feb. 6; Serial No. 339,947; published Nov. 21, 1933.
Pork. John P. Squire & Company. 309,999; Feb. 6; Serial No. 341,677; published Nov. 28, 1933.
Potatoes. C. F. Crowell. 309,860; Feb. 6; Serial No. 341,788; published Nov. 28, 1933.
Salad oil. Globe Grain and Milling Company. 309,858; Feb. 6; Serial No. 340,044; published Nov. 28, 1933.
Syrup, nutted malt sugar, malted milk, and cereal sugar, Malt and maltose. Dextora Company. 310,035; Feb. 6.
Vegetables. S. Rianda. 309,912; Feb. 6; Serial No. 339,000; published Nov. 28, 1933.
Vegetables, Fresh. E. H. Spigel. 309,894; Feb. 6; Serial No. 342,291; published Nov. 28, 1933.

CLASS 47

Wines. C. A. Egli. 309,849; Feb. 6; Serial No. 340,521; published Nov. 28, 1933.
Wines. Etablissements E. Bigeon Inc. 309,961; Feb. 6; Serial No. 342,748; published Nov. 28, 1933.
Wines. Ilario & Leopoldo Ruffino. 309,913; Feb. 6; Serial No. 339,033; published Nov. 28, 1933.
Wines. Charles Kinloch & Co. Limited. 309,965; Feb. 6; Serial No. 342,651; published Nov. 28, 1933.
Wines. J. Krug. 309,963; Feb. 6; Serial No. 342,655; published Nov. 28, 1933.
Wines. Old Dutch Mills, Inc. 309,957; Feb. 6; Serial No. 342,764; published Nov. 28, 1933.
Wines. L. Ravené. 309,970; Feb. 6; Serial No. 341,212; published Nov. 28, 1933.
Wines. J. Reicher. 309,884; Feb. 6; Serial No. 342,492; published Nov. 28, 1933.
Wines. Southard & Co., Limited. 309,898; Feb. 6; Serial No. 342,244; published Nov. 28, 1933.

CLASS 48

Beer, Lager. Old Munich Brewing Company. 309,867; Feb. 6; Serial No. 341,931; published Nov. 28, 1933.
Malt beverage. Pschorrbräu Aktiengesellschaft Munchen. 309,906; Feb. 6; Serial No. 339,328; published Nov. 28, 1933.
Malt beverage. Pschorrbräu Aktiengesellschaft Munchen. 309,911; Feb. 6; Serial No. 339,327; published Nov. 28, 1933.
Malt beverages. Frank Fehr Brewing Co. 310,020; Feb. 6; Serial No. 342,071; published Nov. 28, 1933.
Malt beverages. R. H. Graupner. 310,021; Feb. 6; Serial No. 342,072; published Nov. 28, 1933.
Malt, Cereal beverage. Maier Brewing Company. 309,955; Feb. 6; Serial No. 341,093; published Nov. 21, 1933.

CLASS 49

Liquors. Asbach & Co. Aktiengesellschaft. 310,037; Feb. 6.
Whiskies. A. Ph. Stitzel, Inc. 310,036; Feb. 6.

CLASS 50

Closure caps for bottles and jars. Closure Service Company. 309,885; Feb. 6; Serial No. 342,425; published Nov. 28, 1933.

LIST OF LABELS

Aino. For Medicine in Liquid Form Used in the Treatment of Asthma. B. M. Northrup. 43,209; Feb. 6.
Anestex Dentubes. For Cartridge—Vials Filled with a Local Anesthetic for all Minor and Dental Surgical Operations. D. Curtis. 43,206; Feb. 6.
Champion. For Ginger Ale. Phillips Bros. 43,210; Feb. 6.
Chase & Sanborn's Orloff. For Tea. Standard Brands Incorporated. 43,211; Feb. 6.
DH Quality Shoes for Women. For Shoes. Bird & Son, Inc. 43,204; Feb. 6.
L'Algion. For a French Dry-Cleaning Preparation. Windsor-Lloyd Products, Inc. 43 213; Feb. 6.
Old Settlement. For Wine. Fredonia Products Co. Inc. 43,207; Feb. 6.
Sud-Z-Soff. For a Water Softener. T. E. Huth. 43,208; Feb. 6.
Sugar-Less Candy. For Sugar-Less Candy. Sugar-Less Candy Company. 43,212; Feb. 6.
Val Bros. Old Reserve. For Port Wine. California Medicinal Wine Co. 43,205; Feb. 6.

LIST OF PRINTS

A New Thanksgiving Proclamation. For Coffee. Hills Bros. 14,574; Feb. 6.
Block that Kick. For Coffee. Hills Bros. 14,572; Feb. 6.
Bulls and Bears. For Coffee. Hills Bros. 14,569; Feb. 6.
For a Fast Shave Whippet Double Edge Blade. For Safety Razor Blades. H. J. Edwards. 14,552; Feb. 6.
Funny People, These Men. For Coffee. Hills Bros. 14,566; Feb. 6.
He Can't Take It. For Coffee. Hills Bros. 14,571; Feb. 6.
Helleman's Old Style Lager. For Lager. G. Helleman Brewing Co. 14,553; Feb. 6.
Hills Bros Know the A B C's That Insure Matchless Flavor in Every Pound of Coffee (8⅛x14¼). For Coffee. Hills Bros. 14 559; Feb. 6.
Hills Bros Know the A B C's That Insure Matchless Flavor in Every Pound of Coffee (6x10). For Coffee. Hills Bros. 14,564; Feb. 6.
Hills Bros Know the A B C's That Insure Matchless Flavor in Every Pound of Coffee (12x13). For Coffee. Hills Bros. 14,558; Feb. 6.
Moncardo Contract Bridge Instructor. For Contract Bridge Instructor. Magic Flote Novelty Corporation. 14,576; Feb. 6.
Not Going, Darling? For Coffee. Hills Bros. 14,570; Feb. 6.
Now, Get This, Johnny. For Coffee. Hills Bros. 14,555; Feb. 6.
Rain on the Roof. For Coffee. Hills Bros. 14,568; Feb. 6.
Rowell's Improved Brand Eye Water. For Eye Water Preparation. E. R. Rowell. 14,578; Feb. 6.
Running Guard. For Coffee. Hills Bros. 14,573; Feb. 6.
Schwab's Beer. For Beer. Tonawanda Brewing Corporation. 14,579; Feb. 6.
See How Hills Bros Ring the Bell 3 Times (8⅛x14¼). For Coffee. Hills Bros. 14,561; Feb. 6.
See How Hills Bros Ring the Bell 3 Times (15½x20½). For Coffee. Hills Bros. 14,557; Feb. 6.
See How Hills Bros Ring the Bell 3 Times (6x10). For Coffee. Hills Bros. 14,563; Feb. 6.
See How Hills Bros Ring the Bell 3 Times (12x13). For Coffee. Hills Bros. 14,560; Feb. 6.
The Master at Home. For Coffee. Hills Bros. 14,567; Feb. 6.
There are 3 Reasons for the Matchless Goodness of Hills Bros Coffee (8⅛x14¼). For Coffee. Hills Bros. 14,562; Feb. 6.
There are 3 Reasons for the Matchless Goodness of Hills Bros Coffee (6x10). For Coffee. Hills Bros. 14,565; Feb. 6.
There are 3 Reasons for the Matchless Goodness of Hills Bros Coffee (10½x15¾). For Coffee. Hills Bros. 14,556; Feb. 6.
Toiletries. For Toilet Preparations for Ladies. Parke, Davis & Co. 14,577; Feb. 6.
Uniformity Puts the Dance Team in Big Time. For Coffee. Hills Bros. 14,554; Feb. 6.
Wolf in Cheap Clothing. For Coffee. Hills Bros. 14,575; Feb. 6.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF FEBRUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Charles G., Washington, D. C. Solar heater. 1,946,184; Feb. 6.
Abbott Company, The. (See Wiggin, Daniel W., assignor.)
Adams, Alexander W., Lorne Park, assignor to J. C. Adams Company Limited, Toronto, Ontario, Canada. Hot-air gun. 1,946,262; Feb. 6.
Adams, Charles F., New York, N. Y. Cup dropping machine. 1,945,846; Feb. 6.
Adams, Ervin, Everett, and S. W. Blakslee, Pottsville, Pa. Fuse. 1,945,672; Feb. 6.
Adams, J. C., Company Limited. (See Adams, Alexander W., assignor.)
Addressograph Company. (See Krans, Curtis G., assignor.)
Aerial Advertising Company. (See Neal, Malcolm A., assignor.)
Agfa Ansco Corporation. (See Roessler, Georg, assignor.)
Aktiebolaget Alos. (See Lindgren, Anders G. S., assignor.)
Aktiebolaget, Formator. (See Dahlstrom, E. R., and Rothelius, assignors.)
Aktiengesellschaft Brown Boveri & Cie. (See Brunner, Gustav, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Keller, Robert, assignor.)
Aktiengesellschaft für Montanbedarf. (See Mocigemba, Emanuel, assignor.)
Aldinger, Erwin H., and W. E. Friedrichs, Philadelphia, Pa. Type retaining device for printing machines. 1,945,625; Feb. 6.
Aldeborgh, Erik H., assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y. Surface plate. 1,946,432; Feb. 6.
Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Automotive axle. 1,946,051; Feb. 6.
Alemite Corporation. (See Zerk, Oscar U., assignor.)
Allegheny Steel Company. (See Kiefer, G. C., and Scharschu, assignors.)
Allen-Bradley Company. (See Dawe, Albert J., assignor.)
Alpern, Harry, assignor of one-half to L. B. Cook, Pittsburgh, Pa. Machine rest. 1,945,765; Feb. 6.
Aluminum Colors Incorporated. (See Bengston, Helmer, assignor.)
Aluminum Company of America. (See Churchill, Harry V., assignor.)
Aluminum Company of America. (See Dix, E. H., jr., and Kempf, assignors.)
Aluminum Company of America. (See Edwards, Junius D., assignor.)
Aluminum Company of America. (See Tosterud, Martin, assignor.)
American Bar Products Company. (See Rhodes, E. O., and Hyde, assignors.)
American Brakeblok Corporation. (See Smith, Harry N., assignor.)
American Cable Company. (See Blamire, Reginald, assignor.)
American Cyanamid Company. (See Collins, Charles D., assignor.)
American Cyanamid & Chemical Corporation. (See Lenk, E., and Lippner, assignors.)
American Engineering Company. (See Bennett, Joseph S., assignor.)
American Manganese Steel Company. (See Carr, Bradley S., assignor.)
American Optical Company. (See Baker, Nelson M., assignor.)
American Oxythermic Corporation. (See Fränkl, Mathias, assignor.)
American Sales Book Company. (See Wood, Reginald H., assignor.)
American Sheet and Tin Plate Company. (See Cook, W. O., Miller, and Wetzel, assignors.)
American Sheet and Tin Plate Company. (See Kimball, George C., assignor.)
American Steel and Wire Company of New Jersey, The. (See Hood, Clifford F., assignor.)
American Steel and Wire Company of New Jersey, The. (See Elder, Flint C., assignor.)
American Telephone and Telegraph Company. (See Holden, William H. T., assignor.)
American Tar Products Company. (See Hyde, E. H., and Hager, assignors.)
Ames, Warren, Waltham, Mass. Gauge. 1,945,796; Feb. 6.
Anaconda Wire and Cable Company. (See Frecland, Orville F., assignor.)
Anchor Cap & Closure Corporation. (See Podel, Abraham, assignor.)
Anderson, Kenneth B. (See Sinton, J. F., and Anderson.)
Andrés y Hernandez, José, Habana, Cuba. Faucet. 1,945,637; Feb. 6.
Andrews, Champe S., North Chattanooga, Tenn. Box. 1,946,433; Feb. 6.
Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Method of and mechanism for forming hardened steel. 1,945,510; Feb. 6.
Angle, Philip E., Duquesne, Pa. Conveyer wheel. 1,945,506; Feb. 6.
Apgar, Frank A., Hammond, and A. Runyan, Valparaiso, Ind., assignors to Sinclair Refining Company, New York, N. Y. Synthetic resin and making same. 1,945,719; Feb. 6.
Apple, Vincent G., Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind. Switch mechanism. 1,945,720; Feb. 6.
Armstrong, Leonard J., Mariners Harbor, Staten Island, N. Y. Timer. 1,946,380; Feb. 6.
Arneth, Michael, New Britain, Conn. Apparatus for aerating aquariums. 1,945,962; Feb. 6.
Arni, Hans, Flakensee, near Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Manufacturing goffering cylinders for engraving lenticular elements on films. 1,945,586; Feb. 6.
Aronson, Peter R., Lakewood, Ohio, assignor to National Carbon Company, Inc. Apparatus for assembling electric cells. 1,945,673; Feb. 6.
Arrow Expansion Bolt Company, The. (See Flora, George R., assignor.)
Aschermann, Günther. (See Friederich E., and Aschermann.)
Ashton, Florence N., et al. (See Clancy, Frank F., assignor.)
Associated Electrical Industries Limited. (See Bailey, Richard W., assignor.)
Athey, Isaac H., assignor to Athey Truss Wheel Co., Chicago, Ill. Truss wheel construction. 1,946,122; Feb. 6.
Athey Truss Wheel Co. (See Athey, Isaac H., assignor.)
Atlas-Werke Aktiengesellschaft. (See Fahrenkamp, Paul, assignor.)
Aubuchon, William N. (Tampton) jr., New York, N. Y. Method of and apparatus for producing motion pictures. 1,945,721; Feb. 6.
Aubuchon, William N. (Tampton), jr., New York, N. Y. Method of and apparatus for producing motion pictures. 1,945,722; Feb. 6.
Automatic Appliance Company, The. (See Nivling, Walter A., assignor.)
"Automatic" Sprinkler Company. (See Richards, Benjamin, assignor.)
Auto Research Corporation. (See Bijur, Joseph, assignor.)
Auto Research Corporation. (See Bloom, Edgar J., assignor.)
Babcock & Wilcox Company, The. (See Harter, Isaac, assignor.)
Babcock & Wilcox Company, The. (See Jacobus, D. S., and Black, assignors.)
Bach, Hans, Frankfort-on-the-Main, Germany. Electric cigar lighter. 1,946,434; Feb. 6.
Bach, John J., and J. B. Flaws, North Woburn, assignors to Merrimac Chemical Co., Inc., Boston, Mass. Carboy container. 1,945,797; Feb. 6.
Bach, Julius H., Chicago, Ill. Friction coupling. 1,946,263; Feb. 6.
Baer, Walter A., Paterson, assignor to United Piece Dye Works, Lodi, N. J. Tension controlling device. 1,946,264; Feb. 6.
Baguley, Eric, Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Terminal box. 1,946,265; Feb. 6.
Baier, Willard E., and R. E. Harris, Ontario, assignors to California Fruit Growers Exchange, Los Angeles, Calif. Pectin preparation. 1,945,963; Feb. 6.
Bailey, Richard W., Hale, England, assignor to Associated Electrical Industries Limited. Production of metal castings. 1,946,450; Feb. 6.
Bailey, Richard W., Hale, assignor of one-half to Associated Electrical Industries Limited, and one-half to English Steel Corporation Limited, Sheffield, England. Production of metal castings. 1,946,451; Feb. 6.
Baird, John L., assignor of one-half to Television Limited, London, England. Television system. 1,945,626; Feb. 6.
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,946,346; Feb. 6.
Balch, Thomas V. (See Bohnsack, J. A., and Balch.)
Baldwin, Julian T., West Chester, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J. Manufacturing pigments. 1,946,052; Feb. 6.
Baldwin, Julian T., West Chester, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J. Pigment. 1,946,053; Feb. 6.

Baldwin, Julian T., West Chester, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J. Preparing pigments. 1,946,054; Feb. 6.

Baldwin, Julian T., West Chester, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J. Pigment. 1,946,055; Feb. 6.

Bales, James E., assignor to Lyon Metal Products Incorporated, Aurora, Ill. Shelving construction. 1,945,507; Feb. 6.

Bank, Henry O., Evansville, Ind. Burglarproof screen. 1,946,381; Feb. 6.

Banning, Helmut, Duren, Germany. Hollander. 1,946,347; Feb. 6.

Bantam Ball Bearing Company, The. (See Herrmann, Karl L., assignor.)

Barber, Thomas W., London, England. Autoclave. 1,945,766; Feb. 6.

Baril, Joseph U. (See Baril, Lucien R. and J. U.)

Baril, Lucien R., River Edge, and J. U. Baril, Livingston, N. J. Electric lock. 1,946,384; Feb. 6.

Bark, William, Gary, Ind., assignor to National Tube Company. Manufacture of seamless tubes. 1,945,929; Feb. 6.

Barrett, Arthur M., Winnetka, assignor to Barrett-Cravens Company, Chicago, Ill. Lift truck. 1,945,587; Feb. 6.

Barrett-Cravens Company. (See Barrett, Arthur M., assignor.)

Barringer, Elmer D. (See White, Harry H., assignor.)

Barry, Joseph A., Philadelphia, Pa. Game. 1,945,798; Feb. 6.

Barthelemy, René Fontenay aux Roses, assignor to Compagnie pour la Fabrication des Compteurs et Material d'Usines à Gas, Montrouge, France. Synchronous induction motor. 1,945,723; Feb. 6.

Bassett, Bert L. (See Bassett, Willard E. and B. L.)

Bassett, Willard E. and B. L., Detroit, Mich. Ringless piston. 1,945,674; Feb. 6.

Bates, Harry B., assignor to Maintenance Equipment Company, Chicago, Ill. Rail lubricator. 1,946,123; Feb. 6.

Bath, John & Company. (See Bath, Stanley W., assignor.)

Bath, Stanley W., Shrewsbury, assignor, by mesne assignments, to John Bath & Company, Worcester, Mass. Hydraulic driving and control mechanism for a reciprocated member. 1,946,348; Feb. 6.

Battegay, Constant, assignor to Societe Anonyme des Ateliers Brillie Freres, Levallois-Perret, Seine, France. Electrically controlled clock. 1,945,989; Feb. 6.

Battegay, Constant, assignor to Societe Anonyme des Ateliers Brillie Freres, Levallois, Perret, France. Time meter. 1,945,990; Feb. 6.

Bausch & Lomb Optical Company. (See Sabel, John C., assignor.)

Bazley, Carl E., Auburn, N. Y. Fuel tank ejector. 1,946,185; Feb. 6.

Beardsley, George D. (See Kramer, Andrew A., assignor.)

Bearman, Joseph H., and W. J. Pietras, Detroit, Mich. Combined shirt collar and neckband. 1,945,509; Feb. 6.

Becker, Nathan, New York, N. Y. Float tank bulb. 1,946,266; Feb. 6.

Becker, Nathan, New York, N. Y. Float tank bulb. 1,946,267; Feb. 6.

Beebe, Edward M., Shawnee, Okla. Manifold. 1,945,724; Feb. 6.

Behnke, Guy E., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 1,945,964; Feb. 6.

Behrman, Marcus B., Brooklyn, N. Y. Seal. 1,945,965; Feb. 6.

Belden, Albert G., and C. G. Trefethen, assignors to Norton Company, Worcester, Mass. Automatic cam grinding machine. 1,945,588; Feb. 6.

Belden, Daniel S., and W. Kelley, assignors to Filtrol Company of California, Los Angeles, Calif. Neutral adsorbent and process of making same. 1,946,124; Feb. 6.

Bell, Charles W., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote controlling apparatus. 1,946,186; Feb. 6.

Bell, Charles W., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control apparatus. 1,946,187; Feb. 6.

Bell Telephone Laboratories, Incorporated. (See Kinkead, Fullerton S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mallina, Rudolph F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)

Bell Telephone Laboratories, Incorporated. (See McKim, James B., assignor.)

Bell Telephone Laboratories, Incorporated. (See Zupa, Frank A., assignor.)

Bendix Brake Company. (See Apple, Vincent G., assignor.)

Bendix Brake Company. (See Budd, Clarence E., assignor.)

Bendix Brake Company. (See Lyman, Kenneth E., assignor.)

Bendix Brake Company. (See Parker, Humphrey F., assignor.)

Bendix Brake Company. (See Sanford, Roy S., assignor.)

Bendix-Cowdrey Brake Tester, Inc. (See Du Bois, Otto D., assignor.)

Bendix-Cowdrey Brake Tester, Inc. (See Marshall, Furber L., assignor.)

Bendix-Cowdrey Brake Tester, Inc. (See Norton, Raymond J., assignor.)

Benedict, Edward L., Oakmont, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Wall structure. 1,945,991; Feb. 6.

Bengston, Helmer, assignor to Aluminum Colors Incorporated, Indianapolis, Ind. Coated aluminum and aluminum alloy. 1,946,147; Feb. 6.

Bennett, Joseph S., Merion, assignor to American Engineering Company, Philadelphia, Pa. Liner block for tubular fluid-cooled walls. 1,946,125; Feb. 6.

Bercot, Franklin P., Fort Wayne, Ind. Remote control apparatus. 1,945,511; Feb. 6.

Bergerhausen, Paul, Duren, and J. Kufferath, Mariaweiler, Germany. Dental plate. 1,945,767 Feb. 6.

Berth. Levi & Co. (See Ragals, William C., assignor.)

Bertling, Herbert, Berlin, assignor to Kurt Dicken, Berlin-Charlottenburg, Germany. Lowering the consumption of light in color photography. 1,945,768; Feb. 6.

Besson, Jacob, Stockton, Md. Windshield cleaner. 1,946,009 Feb. 6.

Bethea, Robert F., College Park, Ga. Thermostat alarm for bearings. 1,946,382; Feb. 6.

Bethlehem Shipbuilding Corporation. (See Wetherbee, C. P., and Burkhardt, assignors.)

Beyer, Herman. (See Fox, Brenner B., assignor.)

Bickell, Charles H., trustee. (See Sparks, Stanley W., assignor.)

Bigelow-Sanford Carpet Co. (See Lambo, John D., assignor.)

Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubrication. 1,945,512; Feb. 6.

Bilde, Tord E. D., and S. E. Lindvall, Stockholm, Sweden. Cash register. 1,945,589; Feb. 6.

Binney, Eric A., San Diego, Calif. Vibratory pad. 1,945,675; Feb. 6.

Birch, William T., Chicago, Ill. Regulator and release valve. 1,046,188; Feb. 6.

Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Co., Chicago, Ill. Apparatus for forming wall board into bundles. 1,946,056; Feb. 6.

Birrer, Alfred, assignor of one-half to A. Westad, Oakland, Calif. Reversible gang plow. 1,945,930; Feb. 6.

Bissel, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Vehicle accelerated traffic signal. 1,946,435; Feb. 6.

Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Resynchronizing system for master and secondary controllers. 1,946,436; Feb. 6.

Black & Decker Manufacturing Company, The. (See Decker, Alonzo G., assignor.)

Black, John C., Beverly Hills, Calif. Processing hydrocarbon oils. 1,945,508; Feb. 6.

Black, John E. (See Jacobus, D. S., and Black.)

Black, William, Los Angeles, Calif. Breathing device. 1,946,126; Feb. 6.

Blackburn, Oliver P., East Bakersfield, Calif. Peach. Pl. Pt. 86; Feb. 6.

Blake Electric Mfg. Company. (See Quinby, George B., assignor.)

Blakslee, Samuel W. (See Adams, E., and Blakslee.)

Blamire, Reginald, Kingston, Pa., assignor to American Cable Company, Inc. Adjustable preforming head. 1,945,799; Feb. 6.

Blaskewitz, William, and C. B. Overly, assignors to Clayton & Lambert Manufacturing Company, Detroit, Mich. Quick generating torch. 1,946,383; Feb. 6.

Bliss, Carl G., assignor to Standard Boiler and Steel Works, Los Angeles, Calif. Control and timing apparatus. 1,945,800; Feb. 6.

Bliss, E. W., Company. (See Thoma, Walter, assignor.)

Bloom, Edgar J., Tiffin, Ohio, assignor, by mesne assignments, to Auto Research Corporation. Lubricating fixture. 1,945,513; Feb. 6.

Bloomfield, Grover. (See Woodruff, J. C., Bloomfield, and Krehma.)

Boblett, Kinderman M., and A. G. Vogt, Toledo, Ohio. Automatic power press. 1,945,992; Feb. 6.

Boedicker, Herman C., New York, N. Y., assignor to Photo Cylinder Corporation. Producing printing surfaces. 1,945,676; Feb. 6.

Boehringer, C. H., Sohn. (See Wieland, Heinrich, assignor.)

Bohn Aluminum & Brass Corporation. (See Nelson, Adolph L., assignor.)

Bohnsack, John A. (See Hauserman, E. F., Mowery, and Bohnsack.)

Bohnsack, John A., and T. V. Balch, Cleveland Heights, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Metallic partition construction. 1,946,268; Feb. 6.

Bonhôte, Gérald, assignor to firm Society of Chemical Industry in Basle, Basel, Switzerland. Azo-dyestuffs and process of making same. 1,946,010; Feb. 6.

Bonney, William H., Oregon City, Oreg. Liquid dispensing device. 1,945,725; Feb. 6.

Bonte, Frederick R., Beaver Falls, Pa. Metal working and article produced thereby. 1,945,877; Feb. 6.

Borden's Produce Company. (See Pilley, Frank, assignor.)

Borgwardt, Erich. (See Schoeller, W., Schwenk, and Borgwardt.)

Boriski, Martin. (See Miller, S. I., and Boriski.)

Boulanger, Anthony D., and F. P. Hubrich, Ridgefield Park, assignor to Edge-Bak Manufacturing Company, Inc., North Bergen, N. J. Blade stropper. 1,946,350; Feb. 6.

Bowman, John M., Santa Ana, and S. Bowman, Los Angeles, Calif. Shield for agricultural implements. 1,945,514; Feb. 6.

Bowman, Samuel. (See Bowman, John M. and S.)

Bowser, S. F., & Company, Inc. (See Grimith, Clement P., assignor.)

Boykin, Burwell, jr., Beaumont, Tex. Brake drum for hoisting reels. 1,946,269; Feb. 6.

Boyle, Francis W. (See Boyle, William J., assignor.)

Boyle, Francis, Washington, D. C. Wind indicating aeronautical searchlight beacon. 1,946,351; Feb. 6.

Boyle, William J., assignor of two-fifths to F. W. Boyle, Indiana Harbor, Ind. Book stand and tray. 1,945,931; Feb. 6.

Brackett, Leon E., Oakland, Calif. Circulator casing for heaters. 1,945,966; Feb. 6.

Braddon, Fred D., Eltingville, Staten Island, and F. H. Shepard, jr., New Rochelle, assignors to Sperry Products, Inc., Brooklyn, N. Y. Flaw detector for tubular conductors. 1,946,189; Feb. 6.

Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Vacuum brake system for automotive vehicles. 1,945,515; Feb. 6.

Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, South Bend, Ind., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Vacuum brake system for automotive vehicles. 1,946,127; Feb. 6.

Bragg-Kliesrath Corporation. (See Bragg, C. S., and Kliesrath, assignors.)

Braunwalder, John, Los Angeles, Calif. Internal-combustion engine. 1,945,727; Feb. 6.

Breaker, Harry O., assignor to Industrial Furnace Corporation, Buffalo, N. Y. Metallurgical furnace. 1,946,270; Feb. 6.

Breton, Paul. (See Chilowsky, C., and Breton.)

Breton, Rene J., Fresno, Calif. Shipping package. 1,945,878; Feb. 6.

Bridges, Edward G., Anderson, Ind., assignor to Lynch Corporation. Glassware conveyer. 1,946,452; Feb. 6.

Briggs Manufacturing Company. (See Ross, Frederick N., assignor.)

Briggs, Stephen F., Chenequa, assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Vehicle leaf spring construction. 1,945,801; Feb. 6.

Briggs & Stratton Corporation. (See Briggs, Stephen F., assignor.)

Briggs & Stratton Corporation. (See Fitz Gerald, John W., assignor.)

Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)

Briggs & Stratton Corporation. (See Nicholson, Stewart W., assignor.)

Bright Star Battery Company. (See Buchholz, Max E., assignor.)

Britton, Edgar C., and L. E. Mills, assignors to The Dow Chemical Company, Midland, Mich. Preservative. 1,946,057; Feb. 6.

Britton, Edgar C., Midland, Mich., and F. Bryner, Oakland, Calif., assignors to The Dow Chemical Company, Midland, Mich. Amino-aromatic ketones and making same. 1,946,058; Feb. 6.

Brockway, Carl P., Ridgewood, assignor to World Bestos Corporation, Paterson, N. J. Ballast device. 1,945,726; Feb. 6.

Brodbeck, James R., Wamplum, assignor to Mathews Conveyer Company, Ellwood City, Pa. Conveying mechanism. 1,946,453; Feb. 6.

Brodhun, Carl P., Wilkes Barre, Pa. Cable. 1,946,190; Feb. 6.

Brooklyn Edison Company. (See Brooks, J. A., and Cerf, assignors.)

Brooks, Henry M., et al., trustees. (See Eddison, William B., assignor.)

Brooks, Josiah A., Bay Side, and E. A. Cerf, jr., assignors to Brooklyn, Edison Company, Inc., Brooklyn, N. Y. Electrical distribution system. 1,945,590; Feb. 6.

Brooks, Josiah A., Douglaston, and E. A. Cerf, jr., assignors to Brooklyn, Edison Company, Inc., Brooklyn, N. Y. Electrical distribution system. 1,945,591; Feb. 6.

Brooks, Winfred M., West Orange, N. J. Seal. 1,945,677; Feb. 6.

Brosilow, Louis, W. Markoff, and J. Orosz, Chicago, Ill. Automatic cord take-up and pay-out device for electric lamps. 1,946,128; Feb. 6.

Brown, Harold W., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine control. 1,946,303; Feb. 6.

Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)

Brown, John W., jr., Philadelphia, Pa. Indexed cam-controlled clamping jig. 1,946,420; Feb. 6.

Brown, John W., jr., Philadelphia, Pa. Positioning means for drilling machines. 1,946,421; Feb. 6.

Brown, Raymond G., Niagara Falls, N. Y., assignor, by mesne assignments, to Sulphide Corporation. Treating sulphide ores. 1,946,349; Feb. 6.

Brownlee, Andrew C., Dearborn, Mich. Engine. 1,946,271; Feb. 6.

Brownlee, Roy H., Pittsburgh, Pa. Cleansing composition. 1,946,272; Feb. 6.

Brown-Lipe Gear Company. (See Fawick, Thomas L., assignor.)

Brumley, John D., Newark, N. J., assignor to Westinghouse Lamp Company. Sealing off. 1,945,769; Feb. 6.

Brunner, Gustav, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Electric current rectifying system. 1,945,627; Feb. 6.

Brush, Alanson P., Detroit, Mich. Hydraulic brake. 1,945,728; Feb. 6.

Bryant, Nathan B., Ronceverte, W. Va. Sign and indicator. 1,946,385; Feb. 6.

Bryant, Willis W., Chatsworth, Calif. Oil well apparatus. 1,946,304; Feb. 6.

Bryner, Fred. (See Britton, E. C., and Bryner.)

Buchel, Johannes A., and R. N. Jan Saal, Amsterdam, Netherlands, assignors, by mesne assignments, to Shell Development Company, San Francisco, Calif. Refining hydrocarbon oils. 1,945,516; Feb. 6.

Buchholz, Max E., assignor to Bright Star Battery Company, Hoboken, N. J. Flash light. 1,946,059; Feb. 6.

Buckendale, Laurence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Motor vehicle. 1,946,060; Feb. 6.

Buckeye Iron and Brass Works. (See Rike, Frederick F., assignor.)

Budd, Clarence E., assignor to Bendix Brake Company, South Bend, Ind. Making webs for brake shoes. 1,946,061; Feb. 6.

Budd, Edward G., Manufacturing Company. (See Ragsdale, E. J. W. and Whitesell, jr., assignors.)

Budd Wheel Co. (See Eksergian, C. L. and Davenport, assignors.)

Budd Wheel Company. (See Farr, W. H., and Eksergian, assignors.)

Budd Wheel Company. (See Gaenssle, P. W., and Davenport, assignors.)

Bueckert, Hanns, Ludwigshafen-on-the-Rhine, and R. Stadler, Ziegelhausen, and H. Tanneberger, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purification of acetylene. 1,945,582; Feb. 6.

Buffalo Electro-Chemical Co. Inc. (See Kauffmann, Hans O., assignor.)

Buffalo Electric Furnace Corporation. (See Wiles, Sydney T., assignor.)

Burg, Eugen, Essen, Germany. Coal dust furnace. 1,946,011; Feb. 6.

Burger, Walter D., Forest Park, assignor to Hannifin Manufacturing Co., Chicago, Ill. Broaching press. 1,945,879; Feb. 6.

Burgher, Earl R., Cleveland, Ohio. Apparatus for obtaining an average of readings on circular charts. 1,946,012; Feb. 6.

Burkhardt, John E. (See Wetherbee, C. P., and Burkhardt.)

Burlington Blanket Company. (See Rasch, W. G., and Malcolm, assignors.)

Buschman, Nathan H., Bronx, N. Y. Drier. 1,946,386; Feb. 6.

C-O-Two Fire Equipment Company. (See Wiswell, Ozro N., assignor.)

Caley, Wendell J., Manoa, Pa. Hair curler or waver. 1,945,982; Feb. 6.

California Fruit Growers Exchange. (See Baier, W. E., and Harris, assignors.)

Callender, Elliott A., Peoria, Ill. Protective device for windows. 1,945,729; Feb. 6.

Camera-Projectors Limited. (See Hillery-Collings, Charles E., assignors.)

Camp, Percy B., Maywood, and J. Wilson, Chicago, Ill., assignors to Universal Draft Gear Attachment Co. Brake mechanism for railway cars. Re19,072; Feb. 6.

Campbell, James, Doune, assignor to Archibald Fraser, Glasgow, Scotland. Plural deck vehicle body. 1,946,018; Feb. 6.

Campbell, James L., Lansing, Mich. Balance indicator for weighing scales. 1,945,770; Feb. 6.

Carille, Alfred E., Meadville, Pa. Pull for slide fasteners. Des. 91,458; Feb. 6.

Carlson, James E., Minneapolis, Minn. Road grader. 1,945,517; Feb. 6.

Carlson, James E., Minneapolis, Minn. Road working machine. 1,945,518; Feb. 6.

Carnahan, Orson A., Syracuse, N. Y. Back fire trap for internal-combustion engines. 1,946,014; Feb. 6.

Carnahan, Orson A., Syracuse, N. Y. Combined back-fire trap and air cleaner for internal-combustion engines. 1,946,015; Feb. 6.

Carothers, Wallace H., and G. B. Carpenter, assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of organic acids. 1,946,258; Feb. 6.

Carpenter, Gilbert B. (See Carothers, W. H., and Carpenter.)

Carpenter, Gilbert B., Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of carboxylic acids. 1,946,255; Feb. 6.

Carpenter, Gilbert B., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of organic acids. 1,946,257; Feb. 6.

Carpenter, Gilbert B., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of aliphatic organic acids. 1,946,259; Feb. 6.

Carr, Bradley S., assignor to American Manganese Steel Company, Chicago, Ill. Rotary pump impeller. 1,94,6273; Feb. 6.
Carter, Amos E., Omaha, Nebr. Coaster wagon. 1,946,422; Feb. 6.
Case, Lynn B., assignor to John Waldron Corporation, New Brunswick, N. J. Printing machine for linoleum, textiles, and the like. 1,945,593; Feb. 6.
Cash, A. W., Company. (See Terry, Charles M., assignor.)
Catlett, James T., Schenectady, N. Y., assignor to General Electric Company. Welding apparatus. 1,946,305; Feb. 6.
Catlett, James T., Scotia, N. Y., assignor to General Electric Company. Welding torch. 1,946,306; Feb. 6.
Cebulski, Joseph, Salem, Mass. Noiseless propeller blade for aircraft. 1,946,129; Feb. 6.
Celanese Corporation of America. (See Williams, F. J., and Martin, assignors.)
Cerf, Edgar A., jr. (See Brooks, J. A., and Cerf.)
Chambers, Dudley E., Schenectady, N. Y., assignor to General Electric Company. Carrier conveyer system. 1,946,307; Feb. 6.
Chance, Charles T., and M. K. Patten, assignors, by mesne assignments, to W. F. Stimpson, Detroit, Mich. Apparatus for varying the pitch of aeroplane propeller blades. 1,946,387; Feb. 6.
Chandler & Price Company, The. (See Reichart, William M., assignor.)
Chapin, Herbert L., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating machine. 1,945,519; Feb. 6.
Chaplin, Merle P., Waterville, assignor, by mesne assignments, to Fidelity Trust Company, trustee, Portland, Maine. Producing molded pulp articles. 1,946,437; Feb. 6.
Charman, Walter M., Cleveland Heights, Ohio. Hot top. 1,945,880; Feb. 6.
Chase Companies, Incorporated, The. (See Guild, Lurelle, assignor.)
Chase, Philip H., Bala-Cynwyd, J. R. Falconer, Conshohocken, and W. O. Cunningham, Pottstown, Pa.; said Falconer and said Cunningham assignors to said Chase. Method of and apparatus for manufacturing tubing. 1,945,594; Feb. 6.
Chatterton, Ernest E. (See Vigers, R. W., and Chatterton.)
Chevallier, Arnold L., Llangarron, Ross, Hereford, assignor to Chevallier Self Loading Fire Arms, Limited, London, England. Recoil operated small arm. 1,946,388; Feb. 6.
Chevallier Self Loading Fire Arms, Limited. See Chevallier, Arnold L., assignor.)
Chilowsky, Constantin, Paris, and P. Breton, Bellevue, France. Manufacture of diaphragm adapted for use in physical or like apparatus. 1,945,933; Feb. 6.
Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Shackle. 1,945,595; Feb. 6.
Chireix, Henri, assignor to Compagnie Generale de Telegraphie, Paris, France. Signaling. 1,946,274; Feb. 6.
Chireix, Henri, Paris, France. Apparatus for radiocommunication. 1,946,308; Feb. 6.
Chrétien, Henri, St.-Cloud, France, assignor, by mesne assignments, to Libbey Cataphote Corporation, Toledo, Ohio. Autocollimating reflector and application to optical signaling and night advertising. Re19,070; Feb. 6.
Christ, Charles C., Lyndhurst, N. J. Lubricated oil injector. 1,945,678; Feb. 6.
Christian, James. (See Thomas, Gershom E., assignor.)
Christiansen, Christian B., Brooklyn, N. Y., assignor to Merritt-Chapman and Scott Corporation. Mechanism for building submerged structures. 1,946,389; Feb. 6.
Christiansen, Christian B., Brooklyn, N. Y., assignor to Merritt-Chapman and Scott Corporation. Portable sawing mechanism and method of use. 1,946,390; Feb. 6.
Christman, John M., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Painting instrument. 1,945,730; Feb. 6.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Spring cover. 1,946,391; Feb. 6.
Chryst, William A., assignor to Delco Products Corporation, Dayton, Ohio. Automatic lubricating system. 1,945,590; Feb. 6.
Churchill, Harry V., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Ham boiler and the like. 1,946,149; Feb. 6.
Clancy, Frank J., assignor of thirty-five one-hundredths to A. Gunnard and two one-hundredths to F. N. Ashton, Seattle, Wash. Package. 1,946,191; Feb. 6.
Clark, Harold H. (See Evans, A. D., and Clark.)
Clay Equipment Corporation. (See Clay, J. B., and Wille, assignors.)
Clay, Joseph B., and W. O. Wille, assignors to Clay Equipment Corporation, Cedar Falls, Iowa. Window device. 1,945,881; Feb. 6.
Clayton & Lambert Manufacturing Company. (See Blaskewitz, W., and Overly, assignor.)
Clem, E. D. (See Tece, C. A., and Fleak.)
Clement, Carl N., Beverly, Mass. Electrically heated device. 1,945,628; Feb. 6.
Cleveland Folding Machine Company, The. (See Hitchcock, Reuben, assignor.)
Cleveland Universal Jig Company. (See Verderber, Joseph, assignor.)
Coberly, Clarence J., Los Angeles, assignor to Kobe, Inc., Huntington Park, Calif. Fluid-motor deep well pump. 1,946,454; Feb. 6.
Coffman, Roscoe A., Pittsburgh, Pa. Motor. 1,946,309; Feb. 6.
Cohen, Joseph H., Bridgeport, Conn. Cigar lighter. 1,945,597; Feb. 6.
Cohen, Michael, Brooklyn, N. Y. Electrical outlet molding. 1,945,731; Feb. 6.
Colbie, Gus L., Brooklyn, N. Y., assignor to F. MacGovern Corporation, New York, N. Y. Strip wound tubular articles. 1,945,967; Feb. 6.
Cole, Lyndon C., assignor to General Machinery Corporation, Hamilton, Ohio. Lathe headstock. 1,945,598; Feb. 6, 1934.
Collins, Charles D., assignor to American Cyanamid Company, New York, N. Y. Fluid measuring apparatus. 1,946,275; Feb. 6.
Collins, Edgar V., Ames, Iowa. Cultivator attachment for tractors. 1,945,882; Feb. 6.
Colvilles Limited. (See Hand, Thomas W., assignor.)
Combustion Utilities Corporation. (See Granger, Frederick S., assignor.)
Comeau, Joseph A., Boston, Mass. Knife grinding mechanism. 1,946,311; Feb. 6.
Commercial Solvents Corporation. (See Gabriel, Charles L., assignor.)
Commercial Solvents Corporation. (See Gabriel, C. L., and Swallen, assignors.)
Commercial Solvents Corporation. (See Swallen, Lloyd C., assignor.)
Commercial Solvents Corporation. (See Woodruff, J. C., Bloomfield and Krchma, assignors.)
Communications Patents, Inc. (See Nicolson, Alexander M., assignor.)
Compagnie Generale de Telegraphie. (See Chireix, Henri, assignor.)
Compagnie pour la Fabrication des Compteurs et Material d'Usines à Gaz. (See Barthelemy, René, assignor.)
Compo Shoe Machinery Corporation. (See Weiss, Arthur J., assignor.)
Comstock, Gregory J., Edgewood, assignor to Firth-Sterling Steel Company, McKeesport, Pa. Ferrous alloy. 1,946,130; Feb. 6.
Conklin, James W. (See Finch, J. L., and Conklin.)
Conklin, James W., Rocky Point, Long Island, N. Y., assignor to Radio Corporation of America. Frequency control. 1,945,544; Feb. 6.
Connelly, George F., San Francisco, Calif. Tire tread splitting apparatus. 1,945,883; Feb. 6.
Conover Company, The. (See Stoddard, Edgar S., assignor.)
Continental Oil Company. (See Lincoln, Bert H., assignor.)
Continental Oil Company. (See Lincoln, B. H., and Henriksen, assignors.)
Cook, A. D., Inc. (See Swanson, Raymond E., assignor.)
Cook, L. B. (See Alpern, Harry, assignor.)
Cook, Ralph C., assignor to Universal Oil Products Company, Chicago, Ill. Stabilization of light distillate produced in distilling or cracking hydrocarbons. 1,945,599; Feb. 6.
Cook, Willard O., O. O. Miller, and J. C. Whetzel, Pittsburgh, Pa., assignors to American Sheet and Tin Plate Company. Manufacture of metal coated sheets. 1,945,884; Feb. 6.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray tube. 1,946,312; Feb. 6.
Cooper, William H., Buffalo, N. Y. Hair waving machine. 1,946,392; Feb. 6.
Cornelius, George W., Glendale, Calif. Aircraft. 1,945,520; Feb. 6.
Corson, Michael G., Jackson Heights, N. Y., assignor to Metal & Thermit Corporation. Corrosion resistant alloy. 1,945,679; Feb. 6.
Coubrough, George B., Long Beach, Calif., assignor, by mesne assignments, to The Lummus Company. Contact apparatus. 1,945,600; Feb. 6.
Conitas, Wilbur J., assignor to Deere & Company, Moline, Ill. Wagon hitch. 1,945,732; Feb. 6.
Countryman, Guy A., Ashland, Ohio. Pushing and pulling implement. 1,946,352; Feb. 6.
Court, Frank T., assignor to Deere & Company, Moline, Ill. Stalk shredding implement. 1,945,733; Feb. 6.
Crabtree, John A. Sutton Coldfield, England. Electrical switch of the tumbler type. 1,946,192; Feb. 6.
Cramp, David L., Kirkland Lake, Ontario, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Clutch mechanism. 1,946,062; Feb. 6.
Crawford, McGregor and Canby Company, The. (See Hampton, William C., assignor.)
Creasaty, Geo. M. (See Jauvert, Pierre M., assignor.)
Creveling, John L., near Tucson, Ariz., assignor to The Lubrication Corporation, South Bend, Ind. Lubricating device. 1,946,064; Feb. 6.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crumrine, Chester W., assignor to Electromatic Typewriters, Inc., Rochester, N. Y. Typewriting machine. 1,945,847; Feb. 6.
Cullmer, Harry B., Hollis, N. Y. Door lock and framing. 1,945,734; Feb. 6.
Cunningham, William O. (See Chase, P. H., Falconer, and Cunningham.)
Curdle, Julie C., Jacksonville, Ill. Potato chip cutter. 1,946,193; Feb. 6.
Curtiss Aerocar Company. (See Curtiss, Glenn H., assignor.)
Curtiss, Glenn H., deceased Country Club Estates, Fla., Lena P. Curtiss, executrix, assignor to Curtiss Aerocar Company, Inc. Trailer coupler. 1,946,194; Feb. 6.

Curtiss, Lena P., executrix. (See Curtiss, Glenn H.)
Cutler-Hammer, Inc. (See Millermaster, Ralph A., assignor.)
Cutler-Hammer, Inc. (See Stansbury, Carroll, assignor.)
Dahlström, Ernst R., Alsten, and C. G. B. Rothelius, assignors to Aktiebolaget Formator, Stockholm, Sweden. Device for the separating of stem parts from a tobacco mass. 1,945,771; Feb. 6.
Daley, James C., Chicago, Ill., assignor, by mesne assignments, to Jewell Electrical Instrument Company. Radio tube tester. 1,945,802; Feb. 6.
Dall, Horace E. (See Hodgson, J. L., and Dall.)
Dalziel, Ross W. (See Samaras, S., and Ravizza, assignors.)
Daniels, Leon C., Pittsfield, Mass., assignor to General Electric Company. Tensioning device. 1,946,313; Feb. 6.
Darlington, Henry S., Media, assignor to A. H. Wirz, Inc., Chester, Pa. Device for opening containers. 1,945,885; Feb. 6.
Dassonville, Léon J., Brussels, Belgium. Preparing colored photographic pictures. 1,945,772; Feb. 6.
Daudt, Herbert W., assignor to Kinetic Chemicals Inc., Wilmington, Del. Purification of organic fluorine compounds. 1,946,195; Feb. 6.
Davenport, Talmon A. (See Eksergian, C. L., and Davenport.)
Davenport, Talmon A. (See Gaenssle, P. W., and Davenport.)
Davis, Chester L., Keokuk, Iowa, assignor to Wired Radio, Inc., New York, N. Y. Antenna compensator. 1,945,735; Feb. 6.
Davis, Oliver M., Rome, assignor to General Cable Corporation, New York, N. Y. Reel clamp. 1,946,455; Feb. 6.
Davis, Richard F., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,946,131; Feb. 6.
Dawe, Albert J., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis. Electric switch. 1,946,132; Feb. 6.
Dawson, Wilfred, Golders Green, London, England. Multiple filament electric lamp. 1,946,393; Feb. 6.
Day, Richard L., Houston, assignor of three-fourths to E. C. Northen, Galveston, Tex. Rotary swivel. 1,946,456; Feb. 6.
De Amicis, Domenic S., Jersey City, N. J. Television system and apparatus. 1,945,968; Feb. 6.
Dean, John N. (See Smith, W. S., Garnett, and Dean.)
De Castro-Barberena, Perlita, New York, N. Y. Spool box. 1,946,276; Feb. 6.
Decker, Alonzo G., assignor to The Black & Decker Manufacturing Company, Towson, Md. Casing for a portable electric drill. Des. 91,454; Feb. 6.
Deere & Company. (See Coultas, Wilbur J., assignor.)
Deere & Company. (See Court, Frank T., assignor.)
Deere & Company. (See Johnson, Theodore W., assignor.)
De Giers, Clarence A., Forest Hills, assignor, by mesne assignments, to R. C. Murphy, New York, N. Y. Liquid level indicator. 1,945,736; Feb. 6.
Delaney, Myron E., Bloomfield, N. J., assignor to Halowax Corporation, New York, N. Y. Cement. 1,945,803; Feb. 6.
DeLanty, Loren J. (See Drake, H. C., and DeLanty.)
DeLaval Separator Company. (See Napgood, Cyrus H., assignor.)
DeLaval Separator Company, The. (See Staaff, Per H., assignor.)
Delco Products Corporation. (See Chryst, William A., assignor.)
Delco Products Corporation. (See Funston, Frederick D., assignor.)
Delco Products Corporation. (See Riedel, Walter W., assignor.)
Delco Products Corporation. (See Rossman, E. F., and Funston, assignors.)
Delco-Remy Corporation. (See Norviel, Harry E., assignor.)
De Loe, Oliver P. (See Simkins, H. D., and De Loe.)
Delta-Star Electric Company. (See Sumpter, John E., assignor.)
Demuth, John. (See O'Connell, D. J., Schlossman, Demuth, and Loebl.)
Den Boer, Hendrik P., assignor to Naamlooze Vennotschan: Bakovenbouw voorheen H. P. den Boer, Dordrecht, Netherlands. Conveying device for use in bakeries. 1,945,886; Feb. 6.
Dennerlein, Peter, assignor to The McCall Company, Dayton, Ohio. Drawer partition. 1,945,773; Feb. 6.
Desmond, William C., Chicago, Ill. Battery filling device. 1,946,314; Feb. 6.
Detroit Vapor Stove Company. (See Leonard, Stephen, assignor.)
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. (See Gorhan, Adolf, assignor.)
Deutsche Gold & Silber Scheideanstalt vormals Roessler. (See Herzog, Ewald, assignor.)
Deutsche Gold & Silber Scheideanstalt vormals Roessler. (See Nowack, Leopold, assignor.)
Deutsche Gold & Silber Scheideanstalt vormals Roessler. (See von Szeszich, Lajos, assignor.)
Diack, Alexander S., Detroit, Mich. Motor vehicle drive mechanism. 1,946,016; Feb. 6.
Diagonal Corrugated Patent Corporation. (See Wagner, Joshua, assignor.)
Dicke, Oscar H., Rochester, N. Y., assignor to Pioneer Heat Regulator Corporation. Heat regulating system. 1,945,804; Feb. 6.
Dicken, Kurt. (See Bertling, Herbert, assignor.)
Dilthey, Paul. (See Kröner, G., and Dilthey, assignors.)
Dix, Edgar H., jr., Oakmont, Pa., and L. W. Kempf, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Heat treatment of aluminum-magnesium alloys. 1,945,737; Feb. 6.
Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Dust cover for reflectors. 1,945,738; Feb. 6.
Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Adjustable bracket for lamps. 1,945,739; Feb. 6.
Dodge, Adiel Y., assignor to The Lubrication Corporation, South Bend, Ind. Lubrication device. 1,946,065; Feb. 6.
Dodge, Adiel Y., assignor to The Lubrication Corporation, South Bend, Ind. Lubricating device. 1,946,065; Feb. 6.
Doehler Die Casting Co. (See Morin, Louis H., assignor.)
Dollin, Edgar N., Long Island, and B. F. Waddell, Jackson Heights, assignors to National Gas Range Corporation, New York, N. Y. Burner. 1,945,934; Feb. 6.
Donnelley, Robert R., Chicago, and J. F. Hawley, Oak Park, Ill. Machine for cutting printed wrappers. 1,946,457; Feb. 6.
Dorr Company, The. (See Staritzky, Eugene, assignor.)
Doser, Arnold. (See Thauss, A., Mauthe, and Doser.)
Dotsch, R. F. (See Wentjar, Herman, assignor.)
Douglas, Harry A., Bronson, Mich. Lamp assembly means. 1,946,197; Feb. 6.
Dow Chemical Company, The. (See Britton, E. C., and Bryner, assignors.)
Dow Chemical Company, The. (See Britton, E. C., and Mills, assignors.)
Dow Chemical Company, The. (See Grant, Leo B. and O. E., assignors.)
Dow Chemical Company, The. (See Stoesser, W. C., and Smith, assignors.)
Downing, Frederick B., Carneys Point, N. J., and H. W. Walker, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Motor fuel stabilization. 1,945,521; Feb. 6.
Drake, Harcourt C., Hempstead, and L. J. De Lanty, Spring Valley, assignors to Sperry Products, Inc., Brooklyn, N. Y. Detecting flaws. 1,946,196; Feb. 6.
Drake, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Glass apparatus. 1,945,601; Feb. 6.
Drake, Rollin L., and L. D. Titus, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Handle testing machine. 1,946,438; Feb. 6.
Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for converting oils. 1,946,463; Feb. 6.
Du Bois, Otto D., South Bend, Ind., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y. Testing apparatus. 1,946,133; Feb. 6.
Duff-Norton Manufacturing Company, The. (See Schwerin, Frank H., assignor.)
Duncan, Robert D., jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Wired radio broadcasting system. 1,945,629; Feb. 6.
Duncan, Robert D., jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Modulation system. 1,945,630; Feb. 6.
Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Method of and machine for manufacturing paper cones. 1,946,198; Feb. 6.
Dunlop Tire & Rubber Corporation. (See Hardeman, W. E., and Tompkins, assignors.)
Dunn, William C. (See Huber, Horace H., assignor.)
Dunphy, Raymond A., Penns Grove, N. J., assignor, by mesne assignments, to Kinetic Chemicals, Incorporated, Wilmington, Del. Purification of organic halo-fluoro-compounds. 1,946,199; Feb. 6.
Duplate Corporation. (See Wynd, John, assignor.)
Du Pont, E. I., de Nemours & Company. (See Carothers, W. H., and Carpenter, assignors.)
Du Pont, E. I. de Nemours & Company. (See Carpenter, Gilbert B., assignor.)
Du Pont, E. I., de Nemours & Company. (See Downing, F. B., and Walker, assignors.)
Du Pont, E. I., de Nemours & Company. (See Kern, J. G., and Sala, assignors.)
Du Pont, E. I., de Nemours & Company. (See Scwarta, George L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Weber, A. G., and Schneider, assignors.)
Du Pont, E. I., de Nemours & Company. (See Woodhouse, John C., assignor.)
Dupont Viscoloid Company. (See Eskew, Roderick K., assignor.)
Dupuis, George J., Attleboro, Mass. Reed moving mechanism. 1,946,394; Feb. 6.
Duriron Company, The. (See Jacobsen, Oystein, assignor.)
Dyce, Walter L., Webster, S. Dak. Golf club. 1,946,134; Feb. 6.
Dye, Harry W. (See Tower, M. L., and Dye.)

Earle, James T., Cincinnati, Ohio, and A. McNeese, Covington, Ky. Detachable rack for trucks. 1,945,969; Feb. 6.
Earnshaw, David P., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Vernier tuning mechanism. 1,946,423; Feb. 6.
Easter, James W., Baltimore, Md. Automatic electromagnetic clutch and electric coasting device. 1,946,200; Feb. 6.
Eckert, Anton, Alameda, Calif. Plate or similar article. Des. 91,455; Feb. 6.
Eddison, William B., Ardsley on Hudson, assignor, by mesne assignments, to H. M. Brooks, New York, N. Y.; W. T. Gardiner, Augusta, Maine, and R. K. Hawes, Fall River, Mass., as trustees. Automatic coal burner. 1,946,201: Feb. 6.
Edelstahwerk Röchling Aktiengesellschaft. (See Vorwerk, Paul O. F., assignor.)
Edge-Bak Manufacturing Company, Inc. (See Boulanger, A. D., and Hubrich, assignors.)
Edison, Theodore M., East Orange, N. J., assignor, by mesne assignments, to Fairfield Specialties Corporation, New York, N. Y. Testing coins or other tokens for genuineness. 1,945,740; Feb. 6.
Edwards, Junius D., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Protecting aluminum from corrosion. 1,946,151; Feb. 6.
Edwards, Junius D., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Protecting aluminum from corrosion. 1,946,152; Feb. 6.
Edwards, Junius D., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Protecting aluminum from corrosion. 1,946,153; Feb. 6.
Egloff, Gustav. (See Morrell, J. C., and Egloff.)
Egyesült Izzólámpa és Villamossági Részvénytársaság. (See Theisz, Emil, assignor.)
Eitzen, August D., Rockville, assignor to News Projection Corporation, New York, N. Y. Double projecting machine. 1,945,522; Feb. 6.
Eksergian, Carolus L. (See Farr, W. H., and Eksergian.)
Eksergian, Carolus L., and T. A. Davenport, Detroit, Mich., assignors to Budd Wheel Co., Philadelphia, Pa. Wheel. Des. 91,456; Feb. 6.
Elder, Flint C., Cleveland Heights, Ohio, assignor to The American Steel and Wire Company of New Jersey. Apparatus for casting billets. 1,945,887; Feb. 6.
Electric Steam Heating Corporation. (See Landerman, John D., assignor.)
Electric Steel Foundry Company. (See Nourse, W. H., and Wickes, assignors.)
Electrical Research Products, Inc. (See Kegl, Zoltan J., assignor.)
Electroacustic Gesellschaft mit beschrankter Haftung. (See Rudolph, W., and Settegast, assignors.)
Electrolux Servel Corporation. (See Munters, Carl G., assignor.)
Electromatic Typewriters, Inc. (See Crumrine, Chester W., assignor.)
Electromatic Typewriters, Inc. (See Thompson, Russell G., assignor.)
Elektronmetall G. m. b. H. (See Koch, Erich, assignor.)
Electro-Technical Coatings, Inc. (See Ryan, Victor A., assignor.)
Elfving, Thore M., Stockholm, Sweden. Washing machine. 1,946,277; Feb. 6.
Elfving, Thore M., Stockholm, Sweden. Washing machine. 1,946,278; Feb. 6.
Engel Bruno. (See Wietzel, R., and Engel.)
England, Clemence F., Minneapolis, Minn. Device for limiting opening movement of window sashes. 1,945,848; Feb. 6.
English Steel Corporation Limited, et al. (See Bailey, Richard W., assignor.)
Ennis, Harry C., Flin Flon, Manitoba, Canada. Window pane seal. 1,946,017; Feb. 6.
Enomoto, Kotaro. (See Ohara, T., Enomoto, and Honda.)
Erospha, Inc. (See Wicha, Alois, assignor.)
Eschner, Josef, Vienna, Austria. Parachute. 1,946,066; Feb. 6.
Eskew, Roderick K., Rahway, N. J., assignor to Dupont Viscoloid Company, Wilmington, Del. Reduction of the viscosity of cellulose nitrate. 1,946,067; Feb. 6.
Essem Laboratories, Incorporated, The. (See Steele, Lawrence L., assignor.)
Evans, Archibald D., Warren, Ohio, and H. H. Clark, Ellwood City, Pa.; said Clark assignor to Mathews Conveyer Company, Ellwood City, Pa., and said Evans assignor to The Wean Engineering Company, Inc., Warren, Ohio. Conveying mechanism. 1,946,458; Feb. 6.
Evans, Edwin R., Detroit, Mich. Motor vehicle brake. 1,946,135; Feb. 6.
Fafnir Bearing Company, The. (See File, Merwin S., assignor.)
Fagelson, Edward D., Atlanta, Ga. Shoe-shine recorder. 1,946,395; Feb. 6.
Fagelson, Edward D., Atlanta, Ga. Attachment for shoes for golf and other sports. 1,946,396; Feb. 6.
Fahrenkamp, Paul, assignor to Atlas-Werke Aktiengesellschaft, Bremen, Germany. Hydraulic four-way valve. 1,945,630; Feb. 6.
Fairfield Specialties Corporation. (See Edison, Theodore M., assignor.)
Fairfield Specialties Corporation. (See Hoban, Fairfield W., assignor.)
Falconer, John R. (See Chase, P. H., Falconer, and Cunningham.)
Fankboner, Harland, assignor to The Goss Printing Press Company, Chicago, Ill. Printing press. 1,945,631; Feb. 6.
Farley, Francis S., Trenton, N. J. Internal combustion engine. 1,946,186; Feb. 6.
Farr, Warren H., and C. L. Eksergian, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Artillery wheel. Des. 91,457; Feb. 6.
Farrens, Albert H., Lincoln, Nebr. Truss tile. 1,945,681; Feb. 6.
Fawick, Thomas L., Racine, Wis., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission for automobiles. 1,946,154; Feb. 6.
Fehr, John R., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,946,464; Feb. 6.
Felten & Guilleaume Carlswerk Actien-Gesellschaft. (See Zapf, Georg, assignor.)
Fenner, Howard H., and R. E. Silvis, Mill City, Oreg. Automatic stop and change over for moving picture projectors. 1,945,682; Feb. 6.
Ferguson, George K. S., North East, Pa. Packaging fruit or the like. 1,946,315; Feb. 6.
Ferrandino, Michele, Corbett, Oreg. Automatic mensuring and dispensing device. 1,945,849; Feb. 6.
Fibre Conduit Company, The. (See Robertson, Hugh J., jr., assignor.)
Fidelity Trust Company, trustee. (See Chaplin, Merle P., assignor.)
Fields, Cecil, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Cap feeding mechanism. 1,945,888; Feb. 6.
Filmer, Thomas H., Youngstown, Ohio. Fuel feed control mechanism. 1,945,850; Feb. 6.
Filtrol Company of California. (See Belden, D. S., and Kelley, assignors.)
Finch, James L., and J. W. Conklin, Rocky Point, N. Y., assignor to Radio Corporation of America. Frequency control system. 1,945,545; Feb. 6.
Findlay Clay Products Company. (See Lambie, James M., assignor.)
Firth-Sterling Steel Company. (See Comstock, Gregory J., assignor.)
Fischer, Fritz, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Apparatus for making embossing cylinders. 1,945,935; Feb. 6.
Fisler, Gottfried, Cleveland, Ohio. Extension cord reel. 1,945,602; Feb. 6.
Fitz Gerald, John W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Cigar, cigarette, or the like receptacle. 1,945,805; Feb. 6.
Flanders, Ralph E., assignor to Jones & Lamson, Machine Company, Springfield, Vt. Machine tool and hydraulic feed mechanism therefor. 1,945,632; Feb. 6.
Flaws, James B. (See Bach, J. J., and Flaws.)
Fleak, Glenn D. (See Toce, C. A., and Fleak.)
Flehr, Paul D., San Mateo, Calif. Electric meter. 1,945,523; Feb. 6.
Flora, George R., assignor to The Arro Expansion Bolt Company, Marion, Ohio. Display support. 1,945,806; Feb. 6.
Flower, John W., Wimborne, Dorset, England. Crown feed to bottle crowning machines. 1,945,889; Feb. 6.
Flynn, Edmund J. (See Hoody, W. C., and Flynn.)
Foehr, Joseph F., Garden City, N. Y. Piston packing. 1,945,524; Feb. 6.
Folberth, Frederick G., and W. M. Folberth, Cleveland, Ohio. Clutch and brake control mechanism. 1,945,807; Feb. 6.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Food Machinery Corporation. (See Halt, James M., assignor.)
Food Machinery Corporation. (See Jones, Lloyd E., assignor.)
Food Machinery Corporation. (See Lewis, Harold R., assignor.)
Food Machinery Corporation. (See Stebler, Fred, assignor.)
Foote Burt Company, The. (See Schlitz, Bernard P., assignor.)
Foriyes Frank, Brooklyn, N. Y. Hair waving applicator. 1,945,936; Feb. 6.
Forshee, Joseph M., Granada, Colo. Propeller. 1,945,633; Feb. 6.
Foster, Charles E., Letchworth, England. Temperature measuring device. 1,946,155; Feb. 6.
Foster Wheeler Corporation. (See Wallis, John S., assignor.)
Fox Brenner B., assignor of one-third to H. Bever, San Antonio, Tex. Check for steering mechanism. 1,946,156; Feb. 6.
Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Plate glass rolling apparatus. 1,946,397; Feb. 6.
Fränkl, Mathias, Augsburg, Germany, assignor to American Oxythermic Corporation, New York N. Y. Separating gas mixtures. 1,945,634; Feb. 6.
Fraser, Archibald. (See Campbell, James, assignor.)
Frederickson, Ole, Great Falls, Mont. Sleigh. 1,946,018; Feb. 6.
Freeland, Orville F., Muskegon, Mich., assignor to Anaconda Wire and Cable Company, New York, N. Y. Wire coating machine. 1,945,851; Feb. 6.
Freiberg, Stanley B., Cincinnati, Ohio. Loose leaf binder. 1,945,970; Feb. 6.

Freyn Engineering Company. (See Whitcomb, Arthur J., assignor.)
Friederich, Ernst, and G. Aschermann, Berlin-Charlottenburg, Germany, assignors to General Electric Company. Cut-out for incandescent electric lamps and similar devices. 1,946,279; Feb. 6.
Friedrich, Hans, Berlin, Germany. Treating polyhalite. 1,946,068; Feb. 6.
Friedrichs, Walter E. (See Aldinger, E. H., and Friedrichs.)
Friend, Joseph C., Ashtabula Ohio. Lubricating means. 1,946,316; Feb. 6.
Frigidaire Corporation. (See Fehr, John R., assignor.)
Frigidaire Corporation. (See Steiner, Carl W., assignor.)
Frost, Carl A., assignor of one-half to F. P. Smith, Chicago, Ill. Combined beach bench, locker, and sunshade. 1,946,137; Feb. 6.
Frozen Sweets, Inc. (See Isenberg, Stanley, assignor.)
Fullman, James M. G., Sewickley, Pa., assignor to National Electric Products Corporation, New York, N. Y. Plaster lock. 1,945,683; Feb. 6.
Funston, Frederick D. (See Rossman, E. F., and Funston.)
Funston, Frederick D., assignor to Delco Products Corporation, Dayton, Ohio. Carburetor throttle operating mechanism. 1,945,603; Feb. 6.
Gabriel, Charles L., Lawrence, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Coated paper and producing same. 1,946,203; Feb. 6.
Gabriel, Charles L., Lawrence, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Coated paper and producing same. 1,946,204; Feb. 6.
Gabriel, Charles L., Lawrence, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Coated paper and producing same. 1,946,205; Feb. 6.
Gabriel, Charles L., and L. C. Swallen, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Ethylene glycol phthalate. 1,946,202; Feb. 6.
Gaenssle, Paul W., and T. A. Davenport, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Artillery wheel. Des. 91,458; Feb. 6.
Gagné, Augustin, assignor to Hemphill Company, Central Falls, R. I. Knitting machine. 1,945,971; Feb. 6.
Galloway Engineering Company Limited. (See Greening, H. B., and Galloway, assignors.)
Galloway, James W. (See Greening, H. B., and Galloway.)
Gardiner, William T., et al., trustees. (See Eddison, William B., assignor.)
Gardner, Willis W., Meriden, Conn. Pneumatic stopper for gas mains. 1,946,138; Feb. 6.
Garman, Frank M., Neillsville, Wis. Automatic draft regulator. 1,946,157; Feb. 6.
Garnett, Henry J. (See Smith, W. S., Garnett, and Dean.)
Gaskell, Joseph, St. Helens, assignor to Pilkington Brothers Limited, Liverpool, England. Apparatus for the production of welded wire fabric. 1,945,899; Feb. 6.
Gauthreaux, T. H. (See Morrow, Emmett H. and J. C., assignors.)
Gebhard, Louis A., Washington, D. C. Frequency changing system for high frequency signaling apparatus. 1,945,525; Feb. 6.
General Aniline Works, Inc. (See Steiger, Norbert, assignor.)
General Aniline Works, Inc. (See Thauss, A., Mauthe, and Doser, assignors.)
General Apparatus Corporation. (See Wilcox, Chester M., assignor.)
General Cable Corporation. (See Davis, Oliver M., assignor.)
General Electric Company. (See Brown, Harold W., assignor.)
General Electric Company. (See Catlett, James T., assignor.)
General Electric Company. (See Chambers, Dudley E., assignor.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Daniels, Leon C., assignor.)
General Electric Company. (See Friederich, E., and Aschermann, assignors.)
General Electric Company. (See Hepperlen, John A., assignor.)
General Electric Company. (See Hoeke, Fred A., assignor.)
General Electric Company. (See Kearsley, William K., assignor.)
General Electric Company. (See Lilienthal, M., and Michaelis, assignors.)
General Electric Company. (See Lord, Harold W., assignor.)
General Electric Company. (See Mittag, Albert H., assignor.)
General Electric Company. (See Stephenson, Hugh M., assignor.)
General Electric Company. (See Stewart, Clyde E., assignor.)
General Electric Company. (See Suits, Chauncey G., assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Electric Company. (See Weller, Irving F., assignor.)
General Machinery Corporation. (See Cole, Lyndon C., assignor.)
Germonprez, John A., Grosse Pointe Park, assignor to Uni-Flo Grille Corporation, Detroit, Mich. Register and grille. 1,945,972; Feb. 6.
Gerstenberger, Donald F., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon oil conversion. 1,945,604; Feb. 6.
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Freezing tray. 1,945,605; Feb. 6.
Gibson, Guy T., New Rochelle, assignor to Guy T. Gibson, Incorporated, New York, N. Y. Carton. Des. 91,459; Feb. 6.
Gibson, Guy T., Incorporated. (See Gibson, Guy T., assignor.)
Gibson, James F., Tucson, Ariz. Automatic dry concentrator. 1,945,526; Feb. 6.
Giesey, Russell, Oklahoma City, Okla., assignor to Reed Roller Bit Company, Houston, Tex. Drill. 1,945,937; Feb. 6.
Gifford-Wood Company. (See Peebles, Frank B., assignor.)
Gilbreath, Joseph F., Louisville, Ky. Roasting coffee 1,946,398; Feb. 6.
Gilmore, William, Meridian, Miss. Tamping apparatus. 1,946,019; Feb. 6.
Gilpin, Victor L., Baltimore, Md. Ignition circuit and other lock. 1,945,527; Feb. 6.
Girling, Albert H. G., Harlow, England. Braking mechanism. 1,945,891; Feb. 6.
Glab, William N., assignor to Morrison Bros., Dubuque, Iowa. Concentrated valve control. 1,945,684; Feb. 6.
Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
Globe Union Mfg. Co. (See King, Carl H., assignor.)
Gobin, dit Dandé, Jean, Paris, France. Rivet setting machine. 1,945,892; Feb. 6.
Goble, Bert G., Tulsa, Okla., assignor to W. A. Quigley. Pump jack. 1,945,774; Feb. 6.
Going, George G., Glenbrook, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,945,893; Feb. 6.
Going, George G. Glenbrook, Conn., assignor to Remington Rand Inc., New York, N. Y. Typewriting machine. 1,945,894; Feb. 6.
Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Sound motion picture. 1,946,206; Feb. 6.
Goodman Manufacturing Company. (See Vodoz, Frederick W., assignor.)
Gordon, Hayner H., Washington, D. C., assignor to Lite Watchman Corporation, New York, N. Y. Lighting system for automative vehicles. 1,945,528; Feb. 6.
Görg, Heinrich, Detroit, Mich. Clamping chuck for tools. 1,946,158; Feb. 6.
Gorhan, Adolf, Liesing, near Vienna, Austria, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Weissfrauen, Frankfort-on-the-Main, Germany. Apparatus for producing anhydrous ethyl alcohol directly from mashes and the like. 1,946,020; Feb. 6.
Gosliner, Elkan, San Francisco, Calif. Device for producing smoke rings. 1,945,852; Feb. 6.
Goss Printing Press Company, The. (See Fankboner, Harland, assignor.)
Grademor Corporation. (See Morris, T. L., and Grant, assignors.)
Graenacher, Charles, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Protein solution and new protein derivative and making same. 1,946,159; Feb. 6.
Graham, Harold M., assignor, by mesne assignments, to Rosa Heater & Mfg. Co. Inc., Buffalo, N. Y. Vacuum producing equipment. 1,945,973; Feb. 6.
Granger, Frederick S., Elizabeth, N. J., assignor to Combustion Utilities Corporation, New York, N. Y. Producing synthetic resin. 1,946,459; Feb. 6.
Grant, Leo B. and O. E., assignors to The Dow Chemical Company, Midland, Mich. Magnesium base die casting alloys. 1,946,069; Feb. 6.
Grant, Otis E. (See Grant, Leo B. and O. E.)
Grant, William A. (See Morris, T. L., and Grant.)
Gray, Winfield E., Pawtucket, R. I. Screw driver. 1,945,741; Feb. 6.
Green, Aaron S., et al. (See Hunsicker, Clyde L., assignor.)
Green, Louis D., et al. (See Hunsicker, Clyde L., assignor.)
Greenewalt, Mary H., Philadelphia, Pa. Light color instrument. 1,945,635; Feb. 6.
Greenfield Tap & Die Corporation. (See Koehler, Oscar E., assignor.)
Greening, Herald B., and J. W. Galloway, assignors to Galloway Engineering Company Limited, Hamilton, Ontario, Canada. Internal combustion engine. 1,945,636; Feb. 6.
Griffith, Clement P., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Air release mechanism for dispensing apparatus. 1,946,399; Feb. 6.
Griffith, William B., Audubon, N. J., assignor to Star Sprinkler Corporation, Philadelphia, Pa. Thermostatic switch. 1,945,808; Feb. 6.
Griscom-Russell Company, The. (See Price, Joseph, assignor.)
Gudgeon, Stephen A., and J. B. Wemmer, La Farge, Wis. Fluid brake. 1,945,606; Feb. 6.
Guernsey, Charles O., Philadelphia, Pa. Clutch operating mechanism. Re19,071; Feb. 6.
Guild, Lurelle, Noroton, assignor to The Chase Companies, Incornorated, Waterbury, Conn. Lamp. Des. 91,460; Feb. 6.

Guild, Lurelle, Noroton, assignor to The Chase Companies, Incorporated, Waterbury, Conn. Lamp. Des. 91,461; Feb. 6.

Guin, Lester W., Mishawaka, assignor to South Bend Current Controller Company, South Bend, Ind. Remote control interlocking oil switch. 1,945,775; Feb. 6.

Gunnard, Andrew, et al. (See Clancy, Frank J., assignor.)

Gustafson, Carl A., assignor to Pioneer Gravel Equipment Manufacturing Company, Minneapolis, Minn. Stone crusher. 1,945,853; Feb. 6.

Haeuber, Hans. (See Winkler, F., and Haeuber.)

Hagenbook, Thurloe M., assignor to International Steel Company, Evansville, Ind. Revolving door speed control. 1,946,160; Feb. 6.

Hager, Floyd D. (See Hyde, E. H., and Hager.)

Haglund, Ture R., Stockholm, Sweden. Manufacturing low-carbon chromium alloys. 1,946,161; Feb. 6.

Haire, George W., Chicago, Ill. Plumbing installation. 1,946,207; Feb. 6.

Halt, James M., Bell, Calif., assignor to Food Machinery Corporation. Submersible bearing. 1,945,776; Feb. 6.

Hall & Connolly, Inc. (See Hall, Theodore O., assignor.)

Hall, Harry G., New York, N. Y. Shoe and foot normalizer. 1,946,317; Feb. 6.

Hall, Peter P-G., Philadelphia, Pa. Milling cutter. 1,945,854; Feb. 6.

Hall, Theodore O., assignor to Hall & Connolly, Inc., New York, N. Y. Projector for double dissolving effects. 1,946,139; Feb. 6.

Hall, Walter V., assignor to The United States Air Compressor Company, Cleveland, Ohio. Grease gun. 1,945,855; Feb. 6.

Hall, William D., Corstorphine, Edinburg, Scotland. Umbrella. 1,945,685; Feb. 6.

Halowax Corporation. (See Delaney, Myron E., assignor.)

Hamilton, Eugene B., West Somerville, Mass. Educational game device. 1,946,318; Feb. 6.

Hampton, William C., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Coating articles with pyroxylin or the like. 1,946,208; Feb. 6.

Hand, Thomas W., Hamilton, assignor to Colvilles Limited, Glasgow, Scotland. Rolling discus metal blank. 1,946,070; Feb. 6.

Hannifin Manufacturing Co. (See Burger, Walter D., assignor.)

Hanseatische Muhlenwerke Aktiengesellschaft. (See Rewald, Bruno, assignor.)

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Oscillator. 1,945,546; Feb. 6.

Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Device for cleaning teat cups. 1,946,400; Feb. 6.

Harbert, Carl J., Cleveland Heights, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Pigment composition. 1,945,809; Feb. 6.

Hardeman, William E., Acocks Green, Birmingham, and E. S. Tompkins, Stratford-on-Avon, England, assignors to Dunlop Tire & Rubber Corporation, Buffalo, N. Y. Traction tread. 1,946,209; Feb. 6.

Harnischfeger Corporation. (See Wadd, Roy J., assignor.)

Harris, Robert E. (See Baier, W. E., and Harris.)

Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Control instrument, apparatus, and method. 1,946,280; Feb. 6.

Harshaw Chemical Company, The. (See Harbert, Carl J., assignor.)

Hart, Frank R., and S. W. Lasher, Pacific Grove, Calif. Therapeutic applicator employing vapor passed through a beam of radiant energy. 1,945,856 Feb. 6.

Hart, Frederick A., Stamford, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,945,895; Feb. 6.

Harter, George F., assignor to The Standard Electric Time Company, Springfield, Mass. Binding post. 1,945,857; Feb. 6.

Harter, Isaac, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Tube. 1,945,549; Feb. 6.

Hartford-Empire Company. (See Rowe, George E., assignor.)

Hartford-Empire Company. (See Smith, Arthur E., assignor.)

Hartill, George, sr., Gary, Ind. Hot mill catcher. 1,945,896; Feb. 6.

Harvey, Frank, Covington, Ky., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric cut-out. 1,946,071; Feb. 6.

Haskelite Manufacturing Corporation. (See Meyercord, George R., assignor.)

Haukedahl, Arthur O., Mason City, Iowa. Picture hanger. 1,945,897; Feb. 6.

Hauserman, Earl F., Cleveland Heights, L. D. Mowery, Cleveland, and J. A. Bohnsack, East Cleveland, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Metallic wall structure. 1,946,210; Feb. 6.

Hauserman, E. F., Company, The. (See Bohnsack, J. A., and Balch, assignors.)

Hauserman, E. F., Company, The. (See Hauserman, E. F., Mowery, and Bohnsack, assignors.)

Hawes, Richard K., et al, trustees. (See Eddison, William B., assignor.)

Hawley, John F. (See Donnelley, R. R., and Hawley.)

Hay, John E., Fulham, London, England. Shirt. 1,946,401; Feb. 6.

Hazel-Atlas Glass Co. (See Fields, Cecil, assignor.)

Hazell, Eardley. (See O'Brien, R. J., and Hazell.)

Heidloff, Joseph R., assignor to Hydraulic Brake Company, Detroit, Mich. Assembly of a hose end fitting. 1,945,777; Feb. 6.

Heinkel, John, Rock Island, Ill. Carrier chair for water closet bowls. 1,946,140; Feb. 6.

Heller, Edgar W., Newark, N. J. Centrifugal pump bearing. 1,946,439; Feb. 6.

Hellmers, Heinrich A., Kiel, Germany. Producing wall papers from peeled wood veneers. 1,945,686; Feb. 6.

Hemphill Company. (See Gagné, Augustin, assignor.)

Hemphill, Robert G., Barberton, Ohio. Fountain shaving brush. 1,945,938; Feb. 6.

Henriksen, Alfred. (See Lincoln, B. H., and Henriksen.)

Hepperlen, John A., East Orange, N. J., assignor to General Electric Company. Control system. 1,946,281; Feb. 6.

Hercules Powder Company. (See Kennedy, George F., assignor.)

Hercules Powder Company. (See Spurlin, Harold M., assignor.)

Herdman, William J., South Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y., Television receiver. 1,945,607; Feb. 6.

Hermsdorf, Walter H., assignor, by mesne assignments, to S. H. G. Incorporated, Chicago, Ill. Generating combustible gas. 1,945,550; Feb. 6.

Herrick, Walter W., Milford, assignor to Riegel Paper Corporation, Riegelsville, N. J. Wrapping paper. 1,946,141; Feb. 6.

Herrick, William T., Tulsa, Okla. Cap for paste tubes. 1,945,638; Feb. 6.

Herrmann, Karl L., assignor to The Bantam Ball Bearing Company, South Bend, Ind. Apparatus and method of finishing rollers. 1,946,440; Feb. 6.

Herrmann, Karl L., assignor to The Bantam Ball Bearing Company, South Bend, Ind. Mechanism and method of finishing rollers. 1,946,441; Feb. 6.

Herter, Charles H., New York, N. Y. Refrigerator for frozen foods. 1,945,687; Feb. 6.

Hersog, Ewald, Badisch Rheinfelden assignor to Deutsche Gold & Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Production of preparations suitable for purifying air and liberating oxygen. 1,946,460; Feb. 6.

Hess, Bryce M., Chicago, Ill. Blower. 1,946,162; Feb. 6.

Hettrick Manufacturing Company, The. (See Smith, Milton B., assignor.)

Hiester, Theodore M., assignor to United Aircraft Products, Inc., Dayton, Ohio. Pneumatic method and apparatus for forming metal articles. 1,946,211; Feb. 6.

Hiett, Gregory T., Delphos, Ohio. Filter. 1,946,163; Feb. 6.

Hilger, William P., St. Cloud, Minn. Frost shield. 1,945,742; Feb. 6.

Hill, Roscoe G., River Falls, Wis., assignor of one-fourth to H. Nordstrom, Minneapolis, Minn. Constant pressure reaction gas turbine. 1,945,608; Feb. 6.

Hillery-Collings, Charles E., assignor, by mesne assignments, to Camera-Projectors Limited, London England, Intermittently traversing photographic films and obtaining synchronized film and shutter movements in cinematographic cameras and projectors. 1,946,310; Feb. 6.

Hiltz, John W., Toronto, Ontario, Canada. Grain door. 1,945,974; Feb. 6.

Hindman, Samuel H., trustee. (See Hindman, William H., assignor.)

Hindman William H., Hollywood, assignor to S. H. Hindman, Owensmouth, Calif., and himself as trustees. Portable electric circuit cut-in. 1,945,939; Feb. 6.

Hitchcock, Reuben, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper handling machine. 1,946,142; Feb. 6.

Hitchcock, Reuben, Bratenahl, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper handling machine. 1,946,143; Feb. 6.

Hoban, Fairfield W., assignor to Fairfield Specialties Corporation, New York, N. Y. Testing coins or other tokens for genuineness. 1,945,529; Feb. 6.

Hodgson, John L., and H. E. Dall, Luton, assignor to George Kent, Limited, London England. Variable orifice for measuring the flow of fluids. 1,946,319; Feb. 6.

Hoe, R., & Co. (See Lamatsch, Frederick, assignor.)

Hoecker, Albert C., St. Louis, Mo. Combined jack and bumpers. Des. 91,462; Feb. 6.

Hoeke, Fred A., Homewood Ala., assignor to General Electric Company. Control system. 1,946,282; Feb. 6.

Hoffman, Roy M., Jeannette, and C. F. Northart, Pittsburgh, Pa. Toothbrush. 1,946,283; Feb. 6.

Hoffman, Zachariah S., Essex County, N. J. Carburetor. 1,945,609; Feb. 6.

Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Discharge tube. 1,945,639; Feb. 6.

Holland-Letz, John, Crown Point, Ind., assignor to The Letz Manufacturing Company. Feeding mechanism for grinding mills. 1,946,084; Feb. 6.

Hollister, Edward E., assignor to Hollister-Whitney Company, Quincy Ill. Automatic chock for automobile lifts. 1,946,320; Feb. 6.

Hollister-Whitney Company. (See Hollister, Edward E., assignor.)

Holophane Company. (See Rolph, Thomas W., assignor.)

Holtz, Harold F., Lincoln, Nebr. Pavement crack clearing device. 1,946,810; Feb. 6.

Honda, Ko. (See Ohara, T., Enomoto, and Honda.)

Hood, Clifford F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Rod handling. 1,945,898; Feb. 6.

Hooey, William C., and E. J. Flynn, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of pigments by wet precipitation. 1,945,551; Feb. 6.

Horlacher, Robert J., Poughkeepsie, N. Y. Artificial horizon. 1,946,072; Feb. 6.

Horton, Erwin C., Hamburg, and H. Hueber, assignors to Trico Products Corporation, Buffalo, N. Y. Wiper blade and mounting. 1,946,073; Feb. 6.

Houdashelt, Jasper E., Kansas City, Mo. Vehicle. 1,946,164; Feb. 6.

Howe Folding Furniture Inc. (See Howe, Harold, assignor.)

Howe, Harold, assignor to Howe Folding Furniture Inc., New York, N. Y. Folding mechanism. 1,945,899; Feb. 6.

Howell, Joseph C., Fort Lee, N. J. Arch support. 1,945,688; Feb. 6.

Huber, Henry. (See Horton, E. C., and Hueber.)

Huber, Horace H., Indianapolis, Ind., assignor to William C. Dunn, Chicago, Ill. Carburetor. 1,946,284; Feb. 6.

Hubrich, Frank P. (See Boulanger, A. D., and Hubrich.)

Hueber, Henry, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Radiator shell. 1,946,074; Feb. 6.

Huebschle, Conrad, Cincinnati, Ohio. Anthropometer. 1,946,075; Feb. 6.

Hughes, William F., assignor to Perfection Gear Co., Chicago, Ill. Flexible damper clutch plate assembly. 1,946,144; Feb. 6.

Huguenin, Albert, Paris, France. Rotor wheel. 1,945,900; Feb. 6.

Huguenin, Albert, Paris, France. Distributor for hydraulic reversing turbines. 1,945,901; Feb. 6.

Hults, Eugene A., Saltville, Va., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Chemical container. 1,945,689; Feb. 6.

Hund, August, West Orange, N. J., assignor, by mesne assignments, to Wired Radio, Inc., New York, N. Y. Frequency control and modulation system. 1,945,690; Feb. 6.

Hunsicker, Clyde L., assignor of one-half to A. S. and L. D. Green, San Francisco, Calif. Ophthalmological instrument. 1,945,940; Feb. 6.

Hunt, Andrew M., San Francisco, Calif., assignor to The Standard Stoker Company, Incorporated. Combined steam engine and pulverulent fuel feeding device. 1,945,778; Feb. 6.

Hunter, Hester W., Geneva, Ill. Cleaning device. 1,946,321; Feb. 6.

Hurt, Frank B., La Grande, Oreg. Road builder's equipment. 1,946,461; Feb. 6.

Hutt, Albert E., Pelham, N. Y. Combination day and sleeping railroad coach. 1,945,691; Feb. 6.

Hyde, Elmer H. (See Rhodes, E. O., and Hyde.)

Hyde, Elmer H., and F. D. Hager, Pittsburgh, Pa., assignors to American Tar Products Company, Inc. Composition of matter. 1,946,462; Feb. 6.

Hydraulic Brake Company. (See Heidloff, Joseph R., assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Bueckert, H., Stadler, and Tenneberger, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Kröner, G., and Dilthey, assignors.)

I. G. Farbenindustrie, Aktiengesellschaft. (See Pokorny, E., and Schneider, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Remelé, Adolf, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Reubke, Emil, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, R., and Engel, assignors.)

Ichter, John H., Ashley, Pa., assignor to The Standard Stoker Company, Incorporated. Fuel distributing system. 1,946,443; Feb. 6.

Industrial Furnace Corporation. (See Breaker, Harry O., assignor.)

Ing, John W., Longview, Tex. Vending machine. 1,945,743; Feb. 6.

Ingersoll-Rand Company. (See Cramp, David L., assignor.)

Inland Manufacturing Company, The. (See Chilton, Ralph H., assignor.)

Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)

Inman Manufacturing Company. (See Joslin, Frank M., assignor.)

International Combustion Engineering Corporation. (See Weigel, Albert C., assignor.)

International Steel Company. (See Hagenbook, Thurloe M., assignor.)

Intertype Corporation. (See Turner, Ransom H., assignor.)

Irving Trust Company, receiver. (See Lamatsch, Frederick.)

Irwin, George H., Chicago, Ill. Pneumatically operated cut-out for alternating current motors. 1,946,165; Feb. 6.

Isenberg, Stanley, Chicago, Ill., assignor to Frozen Sweets, Inc. Apparatus for making frozen confections. 1,946,442; Feb. 6.

Jackson, John G., Cleveland, N. Y. Direction indicator. 1,946,424; Feb. 6.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,945,779; Feb. 6.

Jacobsen, Oystein, Dayton, Ohio, assignor to Duriron Company, Inc. Centrifugal pump. 1,946,212; Feb. 6.

Jacobus, David S., Montclair, and J. E. Black, Rumson, assignors to The Babcock and Wilcox Company, Bayonne, N. J. Radiant heat superheater. 1,945,548; Feb. 6.

Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Contact sulpburic acid process. 1,945,811; Feb. 6.

Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Catalytic apparatus. 1,945,812; Feb. 6.

Jaeger Machine Company, The. (See Mandt, Obert G., assignor.)

Jaeger Machine Company. (See Saxe, Arthur C., assignor.)

James, Lester E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Foxing treating machines. 1,945,640; Feb. 6.

Jan Saal, Reyerus N. (See Buchel, J. A., and Jan Saal.)

Jauvert, Pierre M., Bois Colombes, assignor, by mesne assignments, to Geo. M. Cressaty, Paris, France. Thermostat controlling temperature for central heating systems. 1,945,745; Feb. 6.

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jennings, Irving C., South Norwalk, Conn. Steam heating system. 1,945,641; Feb. 6.

Jewell Electrical Instrument Company. (See Daley, James C., assignor.)

Jiffy Lubricator Company. (See Johnson, August, assignor.)

Johns-Manville Corporation. (See Rembert, Ernest W., assignor.)

Johnson, Almon A., Superior, Wis., assignor to Superior Iron Works Company. Winch. 1,946,145; Feb. 6.

Johnson, August, assignor to Jiffy Lubricator Company, Inc., Fargo, N. Dak. Combination hand and air and grease gun. 1,945,813; Feb. 6.

Johnson, Axel R., White Plains, N. Y. Rake. 1,945,552; Feb. 6.

Johnson, Edwin, Great Falls, Mont. Heat generating unit. 1,945,902; Feb. 6.

Johnson Fare Box Co. (See Thompson, Ernest H., assignor.)

Johnson & Johnson. (See Johnson, Robert W., assignor.)

Johnson, Malcolm S., assignor to E. P. Smith, Chicago, Ill. Brake slack adjuster. 1,945,692; Feb. 6.

Johnson, Robert W., assignor to Johnson & Johnson, New Brunswick, N. J. Sanitary napkin. 1,946,425; Feb. 6.

Johnson, Ross H., Indianapolis, Ind. Heel cushion. 1,945,780; Feb. 6.

Johnson, Theodore W., assignor to Deere & Company, Moline, Ill. Cultivator. 1,946,402; Feb. 6.

Johnson, Theodore W., assignor to Deere & Company, Moline, Ill. Cultivator. 1,946,403; Feb. 6.

Johnston, James W., Manchester, N. H., assignor to North American Holding Corporation, Syracuse, N. Y. Grading machine. 1,945,858; Feb. 6.

Jones & Lamson Machine Company. (See Flanders, Ralph E., assignor.)

Jones, Leon B., San Francisco, Calif. Oscillating grate. 1,945,782; Feb. 6.

Jones, Lloyd E., Santa Monica, assignor to Food Machinery Corporation, San Jose, Calif. Machine for cleaning fresh fruit and the like. 1,946,021; Feb. 6.

Jones, Lloyd E., Santa Monica, assignor to Food Machinery Corporation, San Jose, Calif. Clean-out mechanism for fruit treating apparatus. 1,946,022; Feb. 6.

Jones, Lloyd E., Santa Monica, assignor to Food Machinery Corporation, San Jose, Calif. Clean-out mechanism. 1,946,023; Feb. 6.

Jonker, Johan L. H., and K. M. VanGessel, Eindhoven, Netherlands, assignors to Radio Corporation of America. Electron discharge tube. 1,946,076; Feb. 6.

Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Blank feeder. 1,945,903; Feb. 6.

Judge, Arthur J., Bellerose, N. Y. Package and container therefor. 1,946,285; Feb. 6.

Jung, Karl, Munich, Germany. Telescopic sight. 1,946,213; Feb. 6.

Kabigting, Marcello C., Sierra Madre, Calif. Drill. 1,946,214; Feb. 6.

Kane, William E., Syracuse, N. Y. Tight wrap bending machine. 1,945,693; Feb. 6.

Karpf, Charles O., New York, N. Y., assignor to Mannington Mills, Incorporated, Salem, N. J. Floor covering. Des. 91,463; Feb. 6.

Karrick, Lewis C., Salt Lake City, Utah. Destructive distillation of solid carbonizable material. 1,945,530; Feb. 6.

Katz, Martin, Brooklyn, N. Y. Metal door saddle. 1,945,859; Feb. 6.

Kauffmann, Hans O., assignor to Buffalo Electro-Chemical Co. Inc., Buffalo, N. Y. Producing porous gypsum products. 1,946,077; Feb. 6.

Kearsley, William K., Schenectady, N. Y., assignor to General Electric Company. X-ray equipment. 1,946,286; Feb. 6.

Kearsley, William K., Schenectady, N. Y., assignor to General Electric Company. X-ray equipment. 1,946,287; Feb. 6.

Kearsley, William K., Schenectady, N. Y., assignor to General Electric Company. Electron discharge device. 1,946,288; Feb. 6.

Kegl, Zoltan J., Hollywood, Calif., assignor to Electrical Research Products, Inc., New York, N. Y. Sound recording. 1,946,215; Feb. 6.

Keller-Dorian Colorfilm Corporation. (See Oswald, André, assignor.)

Keller, Robert, Ennetbaden, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Protective system for synchronous motors. 1,945,610; Feb. 6.

Kelley, Victor H., Madison, Wis. Vending machine. 1,946,078; Feb. 6.

Kelley, William. (See Belden, D. S., and Kelley.)

Kellogg Company. (See McKay, Eugene H., assignor.)

Kelsey-Hayes Wheel Corporation. (See LeJeune, Frank H., assignor.)

Kempf, Louis W. (See Dix, E. H., jr., and Kempf.)

Kennedy, Albert H., Rockport, Ind. Method and apparatus for setting saws. 1,946,426; Feb. 6.

Kennedy, George F., assignor to Hercules Powder Company, Wilmington, Del. Composition for the impregnation of cable insulation. 1,946,322; Feb. 6.

Kennedy, Gibson H., assignor to Sonoco Products Company, Hartsville, S. C. Grinding machine. 1,945,904; Feb. 6.

Kent, George, Limited. (See Hodgson, J. L., and Dall, assignors.)

Keranen, George M. (See Stockdale, T. E., and Keranen.)

Kern, Jean G., Waltham, Mass., and C. J. Sala, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkylolamine derivatives of aliphatic acids. 1,946,079; Feb. 6.

Kern, Jean G., Waltham, Mass., and C. J. Sala, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkylolamine derivatives of aliphatic acids. 1,946,080; Feb. 6.

Kersten, Jacob, Kalamazoo, Mich. Child's seat. 1,945,781; Feb. 6.

Keystone Reamer & Tool Co. (See Seiler, Michael I., assignor.)

Kiefer, George C., Springdale, and C. A. Scharschu, Brackenridge, Pa., assignors to Allegheny Steel Company. Inorganic insulation for electrical sheets. 1,946,146; Feb. 6.

Kimball, George C., Pittsburgh, Pa., assignor to American Sheet and Tin Plate Company. Sheet handling mechanism. 1,945,905; Feb. 6.

Kinetic Chemicals Inc. (See Daudt, Herbert W., assignor.)

Kinetic Chemicals, Incorporated. (See Dunphy, Raymond A., assignor.)

King, Carl H., assignor to Globe-Union Mfg. Co., Milwaukee, Wis. Battery. 1,945,694; Feb. 6.

Kingsley, Charles B., Clairton, Pa., assignor to Mississippi Glass Company, New York, N. Y. Method and apparatus for making wire glass. 1,945,695; Feb. 6.

Kinkead, Fullerton S., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter selector system. 1,946,216; Feb. 6.

Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)

Kluge, Frederick, Elizabeth, N. J. Discharge valve. 1,945,941; Feb. 6.

Knight, Charles, and A. M. Wilson, Denver, Colo. Treating vanadium ores. 1,945,611; Feb. 6.

Kobe, Inc. (See Coberly, Clarence J., assignor.)

Kobe, Inc. (See Sinton, J. F., and Anderson, assignors.)

Koch, Erich, Stuttgart, assignor to Elektronmetall, G. m. b. H., Stuttgart, Cannstatt, Germany. Light metal piston. 1,946,081; Feb. 6.

Koch, Frank, sr., Albion, Nebr. Fruit jar lifter. 1,945,642; Feb. 6.

Koehler, Oscar E., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass. Threading die and holder. 1,945,906; Feb. 6.

Kolozsy, Louis W., Astoria, N. Y. Synchronous frequency detection system. 1,945,814; Feb. 6.

Könemann, Heinrich, Munster, Germany. Reproduction of sound from sound film records. 1,946,404; Feb. 6.

Koon, Edmund H., Indianapolis, Ind. Air conditioning unit. 1,945,553; Feb. 6.

Kovarh, Andrew J., Rochester, Pa. Pump. 1,946,166; Feb. 6.

Kovacs, Alexander. (See Turnai, Eugene, assignor.)

Kovats, John, assignor to The Leg-O-Matic Company, Bridgeport, Conn. Folding chair. 1,946,082; Feb. 6.

Kramer, Andrew A., assignor to G. D. Beardsley, Kansas City, Mo. Rolling ladder for tanks. 1,945,531; Feb. 6.

Krans, Curtis G., Chicago, Ill., assignor to Addressograph Company, Wilmington, Del. Printing machine. 1,946,217; Feb. 6.

Krchma, Ignace J. (See Woodruff, J. C., Bloomfield, and Krchma.)

Kreidel, Hans, Wiesbaden, Germany. Siphon lubricator for suction and pressure lubrication. 1,945,554; Feb. 6.

Kreidel, Hans, Wiesbaden, Germany. Hand-operated suction and pressure pump for lubricating purposes. 1,945,555; Feb. 6.

Kreidel, Hans, Wiesbaden, Germany. Hand-operated high pressure grease gun. 1,945,556; Feb. 6.

Krell, Joseph, Berlin-Zehlendorf, Germany. Address printing machine. 1,945,643; Feb. 6.

Krell, Joseph, Berlin-Zehlendorf, Germany. Electric control for the printing mechanism of address-printing machines. 1,945,644; Feb. 6.

Kroll, Wilhelm. (See Masing, G., and Kroll.)

Kröner, Gerhard, and P. Dilthey, Cologne-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purifying soot. 1,945,907; Feb. 6.

Kucharski, Stanislaus, Berlin-Charlottenburg, Germany. Device for taking photographs in series. 1,946,323; Feb. 6.

Kufferath, Josef. (See Bergerhausen, P., and Kufferath.)

Kumpman, Daniel F. and J. E., Dover, N. J. Hot and cold water mixing valve. 1,945,645; Feb. 6.

Kumpman, Daniel F. and J. E., Dover, N. J. Hot and cold water mixing valve. 1,945,646; Feb. 6.

Kumpman, John E. (See Kumpman, Daniel F. and J. E.)

Kuntke, Alfred, Eindhoven, Netherlands, assignor to C. H. F. Muller Aktiengesellschaft, Hamburg, Germany. High tension switch. 1,946,324; Feb. 6.

Lacher, John, Omaha, Nebr. Closing means for collapsible tubes. 1,945,612; Feb. 6.

Laffer, James A., St. Louis, Mo. Recovering egg whites. 1,945,860; Feb. 6.

Lamatsch, Frederick, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Inking roller. 1,946,024; Feb. 6.

Lambie, James M., assignor to Findlay Clay Products Company, Washington, Pa. Furnace wall. 1,946,083; Feb. 6.

Lambo, John O., Amsterdam, N. Y., assignor to Bigelow Sanford Carpet Co., Inc., Thompsonville, Conn. Tuft pile fabric looms. 1,946,427; Feb. 6.

Landerman, John D., Brookline, Mass., assignor to Electric Steam Heating Corporation. Electric steam radiator. 1,945,815; Feb. 6.

Lang, George L., South Orange, N. J. Camera flash-light attachment. 1,945,942; Feb. 6.

Lang, Thomas L., Baltimore, Md. Necktie. 1,946,405; Feb. 6.

Lasher, Sally W. (See Hart, F. R., and Lasher.)

Layne, Leslie A., Houston, Tex. Hydraulic setting tool. 1,945,943; Feb. 6.

Leavitt, James P. H., New Haven, Conn. Pilferproof box. 1,945,618; Feb. 6.

Lederer, Ernest A., and J. W. Marden, East Orange, N. J., assignors to Westinghouse Lamp Company. Electron discharge device with indirectly heated cathode. 1,945,746; Feb. 6.

Leg-O-Matic Company, The. (See Kovats, John, assignor.)

Leigh, Willis E., Elizabeth City, N. C. Drainage means for window or similar frames. 1,945,816; Feb. 6.

Lellich, Frank T. and R. K., assignors, by mesne assignments, to W. W. Varney, Baltimore, Md. Air conditioning system and apparatus therefor. 1,945,944; Feb. 6.

Lellich, Robert K. (See Lellich, Frank T. and R. K.)

LeJeune, Frank H., Jackson, Mich., assignor, by mesne assignments, to Kelsey-Hayes Wheel Corporation. Making wire wheels. 1,945,647; Feb. 6.

Lenk, Emil, and F. Lippner, Vienna, Austria, assignors, by mesne assignments, to American Cyanamid & Chemical Corporation, New York, N. Y. Producing material for the treatment of hides and skins. 1,946,218; Feb. 6.

Leonard, Stephen, assignor to Detroit Vapor stove Company, Detroit, Mich. Combined stove top, back guard member, lighting unit, and shade. Des. 91,464; Feb. 6.

Letz Manufacturing Company, The. (See Holland-Letz, John, assignor.)

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Apparatus for mining coal. 1,945,744; Feb. 6.

Levy, Stanley I., London, England, assignor to Sulphide Corporation, New York, N. Y. Treatment of iron pyrites. 1,946,325; Feb. 6.

Lewis, Harold R., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Filing machine. 1,946,025; Feb. 6.

Lewis, William T., and G. Thomas, Racine, Wis.; said Thomas assignor of three-eighths to said Lewis. Color producing device. 1,946,026; Feb. 6.

Libbey-Cataphote Corporation. (See Chrétien, Henri, assignor.)

Libbey-Owens-Ford Glass Company. (See Drake, John L., assignor.)

Lilienthal, Max, Berlin-Wilmersdorf, and L. Michaelis, Berlin-Charl, Germany, assignors to General Electric Company. Multiple speed motor. 1,946,289; Feb. 6.

Lima, Grace T. (See Lima, Henry C., assignor.)

Lima, Henry C., assignor to G. T. Lima, Stamford, Conn. Truck body. 1,945,532; Feb. 6.

Lima, Henry C., assignor to G. T. Lima, Stamford, Conn. Self loading truck. 1,945,533; Feb. 6.

Lincoln, Bert H., assignor to Continental Oil Company, Ponca City, Okla. Lubricating oils. 1,945,614; Feb. 6.

Lincoln, Bert H., and A. Henriksen, assignors to Continental Oil Company, Ponca City, Okla. Lubricating oil. 1,945,615; Feb. 6.

Lindgren, Anders G. S., assignor to Aktiebolaget Alos, Gottenborg, Sweden. Wrapper. 1,945,648; Feb. 6.

Lindvall, Sten E. (See Bilde, T. E. D., and Lindvall.)

Lippner, Felix. (See Lenk, E., and Lippner.)

List, Carl, Elmont, N. Y. Beehive press. 1,945,861; Feb. 6.

Lite Watchman Corporation. (See Gordon, Hayner H., assignor.)

Livingood, Christopher, Berkeley, Calif. Ore concentrating unit. 1,946,219; Feb. 6.

Lloyd, William A., Baltimore, Md. Automatic cigarette lighter and ejector. 1,946,406; Feb. 6.

Loebl, Jerrold. (See O'Connell, D. J., Schlossman, Demuth, and Loebl.)

Loewenstein, Lawrence, Columbus, Ohio. Wind operated sign. 1,945,649; Feb. 6.

Long, Joseph H., Cleveland, Ohio. Heater. 1,946,407; Feb. 6.

Long, Maurice B., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,945,557; Feb. 6.

Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Short interval timer. 1,946,290; Feb. 6.

Lorens, James D., Dayton, Ohio. Cabinet for cash registers. Des. 91,465; Feb. 6.

Lorscheider-Schang Co., The. (See Stephens, Charles A. L., assignor.)

Lots, Fritz, New York, N. Y. Cooker. 1,946,220; Feb. 6.

Londy, Flavius E., Akron, Ohio. Fuselage joint. 1,946,408; Feb. 6.

Lounsbury, Harvey J., Glen Allyn, assignor to W. H. Miner, Inc., Chicago, Ill. Draft rigging. 1,945,696; Feb. 6.

Loutz, Camille, assignor to Societe Alsacienne, de Constructions Mecaniques, Mulhouse, France. Boiler feed water heating plant. 1,946,221 Feb. 6.

Lowe, William J., assignor to S. B. Welker, doing business as Welker Die & Machine Works, Chicago, Ill. Clamping mechanism. 1,946,027; Feb. 6.

Lowen, Stanley, New York, N. Y. Display device. 1,945,945; Feb. 6.

Lower, Nathan M., Baltimore, Md., assignor to The Standard Stoker Company, Incorporated. Admitting air to a fire box. 1,945,817; Feb. 6.

Lubbers, Lubber E., assignor to The New Stoughton Company, Stoughton, Wis. Fifth wheel lock. 1,946,167; Feb. 6.

Lubrication Corporation, The. (See Creveling, John L., assignor.)

Lubrication Corporation, The. (See Dodge, Adiel Y., assignor.)

Lufkin Rule Co. (See Witchger, Eugene J., assignor.)

Lummus Company, The. (See Coubrough, George B., assignor.)

Lungren, Arthur N., Evanston, assignor to The Wahl Company, Chicago, Ill. Mechanical pencil. 1,946,085; Feb. 6.

Lyman, Kenneth E., Chicago, Ill. assignor to Bendix Brake Company, South Bend, Ind. Brake-shaft support. 1,946,086; Feb. 6.

Lynch Corporation. (See Bridges, Edward G., assignor.)

Lyon, George A., Allenhurst, assignor to Lyon Incorporated, Asbury Park, N. Y. Tire cover. 1,946,168; Feb. 6.

Lyon, George A., Allenhurst, assignor to Lyon Incorporated, Asbury Park, N. J. Tire cover. 1,946,326; Feb. 6.

Lyon Incorporated. (See Lyon, George A., assignor.)

Lyon Metal Products, Incorporated. (See Bales, James E., assignor.)

Lytle, Robert T., et al. (See Sparks, Samuel W., assignor.)

M & V Tank Company. (See McMurray, William G., assignor.)

Macdonald, David B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Stiffener for footwear and preparing the same. 1,945,650; Feb. 6.

Macey, Eugene J., Rosholt, S. Dak. Grease gun. 1,945,651; Feb. 6.

MacGovern, F., Corporation. (See Colbie, Gus L., assignor.)

MacIntyre, Aimwell G., assignor to A. E. Staley Manufacturing Company, Decatur, Ill. Manufacture of paper pulp. 1,945,862; Feb. 6.

Mack, Patrick H., Bradford, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Flood packer. 1,946,353; Feb. 6.

MacKenzie, Alexander, Philadelphia, Pa. Sash construction. 1,946,169; Feb. 6.

Magnesium Development Corporation. (See Wood, Robert T., assignor.)

Maintenance Equipment Company. (See Bates, Harry B., assignor.)

Malcolm, James A. (See Rasch, W. G., and Malcolm.)

Mallina, Rudolph F., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phonograph recording machine. 1,945,558; Feb. 6.

Mallon, Hugh J., West New York, N. J. Amusement and training apparatus. 1,945,697; Feb. 6.

Mallon, Hugh J., New York, N. Y. Aircraft training and sport apparatus. 1,945,698; Feb. 6.

Mandt, Obert G., assignor to The Jaeger Machine Company, Columbus, Ohio. Discharge chute for mixers. 1,946,222; Feb. 6.

Manley, Harry P. (See Warder, L. P., and Manley.)

Mannington Mills, Incorporated. (See Karpf, Charles O., assignor.)

Mantle Lamp Company of America, The. (See Schwarz, Eugene, assignor.)

Manufacturers Light and Heat Company. (See Thompson, Charles S., assignor.)

Maple Grove Candies, Inc. (See Whaley, Harold R., assignor.)

Marden, John W. (See Lederer, E. A., and Marden.)

Markoff, William. (See Brosilow, L., Markoff, and Orosz.)

Marshall, Furber I., Chicago, Ill., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y. Brake testing machine. 1,946,087; Feb. 6.

Martin, Charles E., Minneapolis, Minn. Garment. 1,945,747; Feb. 6.

Martin, Claude W., Gold Hill, Oreg. Controlling operation of cement kilns. 1,945,652; Feb. 6.

Martin, Herbert E. (See Williams, F. J., and Martin.)

Mascareño, Donaciano, Los Angeles, Calif. Silver polishing machine. 1,945,908; Feb. 6.

Masing, Georg, Berlin, Germany, and W. Kroll, Luxemburg, Luxemburg, assignors, by mesne assignments, to Metal & Thermit Corporation, New York, N. Y. Alloy. 1,945,653; Feb. 6.

Mason, Warren P., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Translating device. 1,946,223; Feb. 6.

Mastrangel, Louis, Union City, N. J. Tire gauge. 1,946,224; Feb. 6.

Mastrud, Conrad D., Chicago, Ill. Dental device. 1,945,616; Feb. 6.

Mathews Conveyer Company. (See Brodbeck, James R., assignor.)

Mathews Conveyer Company. (See Evans, A. D., and Clark, assignor.)

Mathieson Alkali Works, Inc. (See Hultz, Eugene A., assignor.)

Matsuki, Kan-ichiro. (See Ohara, T., Enomoto, and Honde, assignors.)

Matsuura, Ryosaku, Shotokugai, Darien, Manchuria, assignor to Minami Manshu Tetsudo Kabushiki Kaisha, Darien, Manchuria, China. Manufacturing a magnesia cement. 1,946,327; Feb. 6.

Mattson, Martin, Loomis, Nebr. Tractor guide. 1,946,225; Feb. 6.

Maurer, John A., jr., New York, N. Y., assignor to Radio Corporation of America. Condensing lens system for motion picture projection. 1,946,088; Feb. 6.

Mauthe, Gustav. (See Thauss, A., Mauthe, and Doser.)

Mayers, Henry H., Philadelphia, Pa., assignor to Rohm & Haas Company. Anhydrous sodium sulphide and making same. 1,946,059; Feb. 6.

McCaleb, Albert G., Evanston, Ill. Parking light control for automotive vehicles. 1,946,226; Feb. 6.

McCall Company, The. (See Dennerlein, Peter, assignor.)

McDaniel, James F., University City, Mo. Window attachment. 1,945,748; Feb. 6.

McGavack, John, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Coating fabric. 1,946,090; Feb. 6.

McGrail, Thomas E., Montreal, Quebec, Canada. Sheet metal radiator. 1,946,227; Feb. 6.

McIlvaine, Oran T., Cleveland, Ohio, assignor to McIlvaine Patent Corporation, St. Charles, Ill. Rectifier tube. 1,946,354; Feb. 6.

McIlvaine Patent Corporation. (See McIlvaine, Oran T., assignor.)

McKay, Eugene H., assignor to Kellogg Company. Battle Creek, Mich. Cereal food. 1,945,946; Feb. 6.

McKay, Eugene H., assignor to Kellogg Company, Battle Creek, Mich. Cereal food. 1,945,947; Feb. 6.

McKenna, James, Lisburn, Ireland. Templet for facilitating the drawing of geometrical patterns. Des. 91,466; Feb. 6.

McKillop, Edgar A., Hendersonville, N. C. Device for cleaning bobbins. 1,945,654; Feb. 6.

McKim, James B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,946,228; Feb. 6.

McLaughlin, Denis P., San Diego, Calif. Safety attachment for typesetting machines. 1,946,091; Feb. 6.

McLaughlin, Thomas E. (See White, H. E., and McLaughlin.)

McLintock, John, Dennistoun, Glasgow, Scotland. Bearing of axles and shafts. 1,946,409; Feb. 6.

McMurray, William G., assignor to M & V Tank Company, Wichita Falls, Tex. Heated separator tank for oil field emulsions. 1,946,229; Feb. 6.

McNally, Edwin M., assignor to The Tefra Co., Indianapolis, Ind. Toothbrush. 1,945,559; Feb. 6.

McNeese, Alvin. (See Earle, J. T., and McNeese.)

McPherson, Harry L., and J. H. Weatherford, Memphis, Tenn.; said Weatherford assignor to said McPherson. Internal combustion engine. 1,945,818; Feb. 6.

McPherson, Price S., et al. (See Sparks, Samuel W., assignor.)

Mellink, Charles F., Toledo, Ohio. Safe. 1,946,028; Feb. 6.

Merco Centrifugal Separator Co., Ltd. (See Peltzer, Albert, and Albert, jr., assignors.)

Merrimac Chemical Co. (See Bach, J. J., and Flaws.)

Merritt-Chapman and Scott Corporation. (See Christiansen, Christian B., assignor.)

Metal & Thermit Corporation. (See Corson, Michael G., assignor.)

Metal & Thermit Corporation. (See Masing, G., and Kroll, assignors.)

Meyercord, George R., Chicago, Ill., assignor to Haskelite Manufacturing Corporation. Gluing laminated panels. 1,945,560; Feb. 6.

Michaelis, Lothar. (See Lilienthal, M., and Michaelis.)

Midland Steel Products Company, The, trustee. (See Sneed, John, assignor.)

Midnight, Wilbur G., assignor to Perfection Stove Company, Cleveland, Ohio. Refrigeration apparatus. 1,946,029; Feb. 6.

Miesner, Benjamin F., Short Hills, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Push-pull amplifier system. 1,946,092; Feb. 6.

Mikaelson, Erik W., assignor to Treadwell Engineering Company, Easton, Pa. Sheet or strip feeding mechanism. 1,946,170; Feb. 6.

Miller, Arthur W., Milwaukee, Wis. Air cleaner. 1,946,291; Feb. 6.

Miller Company, The. (See Doane, Leroy C., assignor.)

Miller Devices Inc. (See Miller, Philip M., assignor.)

Miller, Oscar O. (See Cook, W. O., Miller, and Whetzel.)

Miller, Philip M., Youngstown, Ohio, assignor to Miller Devices, Inc., New York, N. Y. Motor vehicle wheel construction. 1,946,171; Feb. 6.

Miller, Philip M., Cleveland, Ohio, assignor to Miller Devices Inc., New York, N. Y. Cast spider construction. 1,946,172; Feb. 6.

Miller, Robert A., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Plate glass polishing block. 1,946,355; Feb. 6.

Miller, Samuel L., and M. Boriski, Houston, Tex. Garment. 1,946,173; Feb. 6.

Millermaster, Ralph A., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch of the enclosed type. 1,945,819; Feb. 6.

Mills, Lindley E. (See Britton, E. C., and Mills, assignors.)

Minami Manshu Tetsudo Kabushiki Kaisha. (See Matsuura, Ryosaku, assignor.)

Miner, W. H., Inc. (See Lounsbury, Harvey J., assignor.)

Mink, Charles F., Larchmont, N. Y. Water closet. Des. 91,467; Feb. 6.

Mississippi Glass Company. (See Kingsley, Charles B., assignor.)

Mitchell Camera Corporation. (See Mitchell, George A., assignor.)

Mitchell, Frank K. (See Murphy, F. K., Retterer, and Mitchell.)

Mitchell, George A., Los Angeles, assignor to Mitchell Camera Corporation, West Hollywood, Calif. Duplex motion picture projector. 1,945,863; Feb. 6.

Mitchell, John E., Dallas, Tex. Cotton extracting and cleaning machines. 1,945,783; Feb. 6.

Mitchell, John E., Dallas, Tex. Machine for separating cotton from air. 1,945,820; Feb. 6.

Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Electric valve converting apparatus. 1,946,292; Feb. 6.

Mociemba, Emanuel, Essen, assignor to Aktiengesellschaft fur Montanbedarf, Vaduz, Liechtenstein, Germany. Making rotary pistons with stepped windings for use in connection with rotary piston engines. 1,946,410; Feb. 6.

Moran, William G., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Vapor electric device. 1,945,749; Feb. 6.

Moreno, Gabriel G., assignor to Moreno-Snyder Cine Corporation, Ltd., Los Angeles, Calif. Film gate. 1,945,909; Feb. 6.

Moreno-Snyder Cine Corporation, Ltd. (See Moreno, Gabriel G., assignor.)

Morgan, Mathew B., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Automotive axle. 1,946,093; Feb. 6.

Morin, Louis H., New York, N. Y., assignor, by mesne assignments, to Doehler Die Casting Co. Protective means for coin controlled apparatus. 1,945,948; Feb. 6.

Morrell, Jacque C., and G. Egloff, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,946,094; Feb. 6.

Morrell, Jacque C., and G. Egloff, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,946,095; Feb. 6.

Morrell, Jacque C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,946,096; Feb. 6.

Morris, Thomas L., Van Nuys, and W. A. Grant, assignors to Grademor Corporation, Ltd., Los Angeles, Calif. Gate type rotary pump. 1,946,097; Feb. 6.

Morrison Bros. (See Glab, William N., assignor.)

Morrison, Montford, Chicago, Ill., assignor, by mesne assignments, to Westinghouse Lamp Company. Luminous discharge device. 1,945,750; Feb. 6.

Morrison, Montford, Montclair, N. J., assignor to Westinghouse X-Ray Company, Inc. Discharge tube stabilizer system. 1,945,751; Feb. 6.

Morrison, Montford, Long Island City, N. Y. Sound wave producing device. 1,946,098; Feb. 6.

Morrow, Emmet H. and J. C., assignors to T. H. Gauthreaux, Chicago, Ill. Lubricator attachment. 1,945,699; Feb. 6.

Morrow, John C. (See Morrow, Emmet H. and J. C.)

Morton, James, West Lothian, Scotland. Manufacture of fabrics of various kinds by needle action. 1,946,030; Feb. 6.

Mosberg, Arnold T., Lakewood, Ohio. Automobile radiator reflector cap. 1,946,230; Feb. 6.

Motor Wheel Corporation. (See Van Halteren, Andrew S., assignor.)

Mowery, Leroy D. (See Hauserman, E. F., Mowery, and Bohnsack.)

Mulder, Johannes G. W., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Alternating current rectifying installation. 1,945,993; Feb. 6.

Muller, C. H. F., Aktiengesellschaft. (See Kuntke, Alfred, assignor.)

Multigraph Company. (See Rowell, George S., assignor.)

Munk, Max M., Washington, D. C. Adding machine. 1,946,174; Feb. 6.

Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,945,975; Feb. 6.

Murphy, Fred K., R. W., Retterer, and F. K. Mitchell, Indianapolis, Ind. Water indicator. 1,946,175; Feb. 6.

Murphy, Richard C. (See de Giers, Clarence A., assignor.)

Mussy, René, Hempstead, N. Y. Apparatus for waving hair. 1,946,444; Feb. 6.

Mutscheller, Arthur, New York, N. Y., assignor to Wappler Electric Company, Inc. X-ray system. 1,946,176; Feb. 6.

Myer, Jesse M., University City, Mo. Support for concrete dividers. 1,945,784; Feb. 6.

Myers, Robert L., San Diego, Calif. Tube cutter. 1,945,949; Feb. 6.

Naamlooze Vennotschap: Bakovenbouw voorheen H. P. den Boer. (See den Boer, Hendrik P., assignor.)

Napier, D., & Son Limited. (See Vigers, R. W., and Chatterton, assignors.)

National Carbon Company, Inc. (See Aronson, Peter R., assignor.)

National Electric Products Corporation. (See Fullman, James M. G., assignor.)

National Electric Products Corporation. (See Sharp, L. Alan, assignor.)

National Fireworks, Inc. (See Thrasher, Warren G., assignor.)

National Gas Range Corporation. (See Dollin, E. N., and Waddell, assignors.)

National Rubber Machinery Company. (See Williams, Thomas H., assignor.)

National Supply Company of Delaware, The. (See Young, Forrest J., assignor.)

National Tube Company. (See Bark, William, assignor.)

Naugatuck Chemical Company, The. (See McGavack, John, assignor.)

Naugatuck Chemical Company, The. (See O'Brien, R. J., and Hazell, assignors.)

Naugatuck Chemical Company, The. (See Ter Horst, William P., assignor.)

Neal, Malcolm A., assignor to Aerial Advertising Company, Inc., San Francisco, Calif. Aerial advertising device. 1,945,785; Feb. 6.

Neff, Judson, Louisville, Ky. Apparatus for removing superheat from compressed gas to be condensed in a surface condenser. 1,946,328; Feb. 6.

Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Piston. 1,945,994; Feb. 6.

Nelson, John N., Cranston, R. I., assignor to Universal Optical Corporation. Ophthalmic mounting. 1,945,617; Feb. 6.

Nesmith, George W., Tulsa, Okla. Adhesive liquid container adapted to ready use and sealing the same. 1,946,330; Feb. 6.

Neurath, Egon, Kai, Vienna, Austria. Clutching mechanism. 1,946,177; Feb. 6.

Newcomer, Harry S., New York, N. Y. Anamorphosing objective. 1,945,950; Feb. 6.

Newcomer, Harry S., New York, N. Y. Afocal objectives. 1,945,951; Feb. 6.

New Jersey Zinc Company, The. (See Hooey, W. C., and Flynn, assignors.)

News Projection Corporation. (See Eitzen, August D., assignor.)

New Stoughton Company, The. (See Lubbers, Lubbert E., assignor.)

Niagara Sprayer and Chemical Company, Inc. (See Tower, M. L., and Dye, assignors.)

Nicholson, Stanley W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Window regulator. 1,945,821; Feb. 6.

Nicholson, William I., jr., Tulsa, Okla. Sales and billing machine. 1,945,655; Feb. 6.

Nickerson, William H., Newton, Mass. Machine for making longitudinally curved reenforced shank stiffeners. 1,945,618; Feb. 6.

Nicolson, Alexander M., assignor to Communications Patents, Inc., New York, N. Y. Radio range finder. 1,945,952; Feb. 6.

Nilson, Leonard D., Waysata, Minn. Lifting jack with traveling pawl mechanism. 1,945,910; Feb. 6.

Nivling, Walter A., Newton, Mass., assignor to The Automatic Appliance Company. Method and apparatus for measuring viscosity. 1,945,822; Feb. 6.

Nordstrom, Hulda. (See Hill, Roscoe G., assignor.)

North American Holding Corporation. (See Johnston, James W., assignor.)

Northart, Carl F. (See Hoffman, B. M., and Northart.)

Northen, E. C. (See Day, Richard L., assignor.)

Norton Company. (See Belden, A. G., and Trefethen, assignors.)

Norton, Raymond J., Washington, D. C., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y. Electrical dynamometer. 1,946,099; Feb. 6.

Norton, Raymond J., Washington, D. C., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y. Electrical dynamometer. 1,946,100; Feb. 6.

Norton, Raymond J., Washington, D. C., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y. Brake testing structure. 1,946,101; Feb. 6.

Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind. Brake rotor. 1,946,102; Feb. 6.

Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind. Brake drum. 1,946,103; Feb. 6.

Norviel, Harry E., assignor to Delco-Remy Corporation, Anderson, Ind. Protecting device. 1,945,561; Feb. 6.

Norviel, Harry E., assignor to Delco Remy Corporation, Anderson, Ind. Lock switch. 1,945,562; Feb. 6.

Nourse, Walter H., and P. A. Wickes, assignors to Electric Steel Foundry Company, Portland, Oreg. Skidding arch. 1,945,976; Feb. 6.

Novopan Studiengesellschaft Zur Herstellung besseren und billigeren Brotes m. b. H. (See Schaul, Martin, assignor.)

Nowack, Leopold, Pforzheim, assignor to Deutsche Gold & Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Manufacture of alloys of precious metals which are amenable to heat treatment. 1,946,231; Feb. 6.

Obear-Nester Glass Company. (See Stuckey, Samuel G., assignor.)

O'Brien, Raymond J., Rutherford, N. J., and E. Hazell, New York, N. Y., assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Apparatus for applying adhesive preparations. 1,945,700; Feb. 6.

O'Connell, Daniel J., N. J. Schlossman, J. Demuth, and J. Loebl, assignors to O'Connell's Inc., Chicago, Ill. Store front. Des. 91,468; Feb. 6.

O'Connell, Timothy M., Philadelphia, Pa. Votive light tumbler. 1,945,953; Feb. 6.

O'Connell's Inc. (See O'Connell, D. J., Schlossman, Demuth, and Loebl, assignors.)

Obara, Tsuneto, Kotaro Enomoto, and Ko Honda, assignors of one-fifth to Kan-ichiro Matsuki, Tokyo, Japan. Electric lamp. 1,946,104; Feb. 6.

Oil Well Supply Company. (See Mack, Patrick H., assignor.)

Oliver, Herbert R., Baltimore, Md. Liquid heater. 1,946,031; Feb. 6.

Olsen, Carl A., assignor to Toplifter, Inc., Lynn, Mass. Heel lift machine. 1,945,864; Feb. 6.

Olsen, Clair A., and L. L. Schmidt, Burlington, Iowa. Game apparatus. 1,946,232; Feb. 6.

Oltarsh, J. (See Willheim, William, assignor.)

Orosz, John. (See Brosilow, L., Markoff, and Orosz.)

Ortmeyer, Hermann, Berlin, Germany. Installation for recooling the cooling air in circulating air cooling installations. 1,945,619; Feb. 6.

Oswald, André, Paris, France, assignor to Keller-Dorian Colorfilm Corporation, New York, N. Y. Color photography objective. 1,945,977; Feb. 6.

Overly, Clarence B. (See Blaskewitz, W., and Overly.)

Owen, Thomas J., Akron, Ohio. Concrete tamping apparatus. 1,945,563; Feb. 6.

Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass cutting apparatus. 1,946,356; Feb. 6.

Packard Motor Car Company. (See Christman, John M., assignor.)

Pagano, Andrea R., Genoa, Italy. Cam lever closing arrangement for pressure-cooking pots. 1,945,752; Feb. 6.

Page, Louis J., Brooklyn, N. Y. Type of eyeglass and spectacle mounting or bridge. 1,946,233; Feb. 6.

Palombo, Faustino J., jr. (See Palombo, Faustino J., and F. J., jr.)

Palombo, Faustino J., and F. J. Palombo, jr., Garfield Heights, Ohio. Potato peeling machine. 1,945,978; Feb. 6.

Parker, Henry W., assignor to Rogers Radio Tubes, Limited, Toronto, Ontario, Canada. Electron discharge tube. 1,945,979; Feb. 6.

Parker, Henry W., assignor to Rogers Radio Tubes, Limited Toronto, Ontario, Canada. Cathode ray tube. 1,945,980; Feb. 6.

Parker, Humphrey F., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,946,032; Feb. 6.

Parlett, Alexander H., Bellevue, Pa. Sanitary dispensing cabinet for surgical gauze and the like. 1,946,105; Feb. 6.

Parmley, Cecil O. Bremerton, Wash. Napkin dispensing cabinet. 1,945,911; Feb. 6.

Paterson Engineering Company. (See Smalley, William, assignor.)

Patrick, Russell, assignor to United States Tire Company, Incorporated, Indianapolis, Ind. Connecter. 1,946,106; Feb. 6.

Patten, Murray K. (See Chance, C. T., and Patten.)

Payton, James Y., Long Beach, Calif. Signaling device for typewriters. 1,945,753; Feb. 6.

Pearl, William E., Brooklyn, N. Y. Spray device. 1,945,701; Feb. 6.

Pearson, Axel A., Kansas City, Mo. Half-tone screen. 1,945,865; Feb. 6.

Peebles, Frank B., assignor to Gifford-Wood Company, Hudson, N. Y. Traverse rope take-up. 1,945,754; Feb. 6.

Peltzer, Albert, jr. (See Peltzer, Albert and A., jr.)

Peltzer, Albert, Palo Alto, Calif., and A. Peltzer, jr., Chicago, Ill., assignors to Merco Centrifugal Separator Co., Ltd., San Francisco, Calif. Centrifugal apparatus. 1,945,786; Feb. 6.

Penfield, Ralph B., Sedan, Kans. Turning implement. 1,945,912; Feb. 6.

Perfection Gear Co. (See Hughes, William F., assignor.)

Perfection Stove Company. (See Midnight, Wilbur G., assignor.)

Permutit Company, The. (See Vaughan, William, assignor.)

Peterson, Juel L. (See Smith, E. R., and Peterson.)

Petrak, Edward T., Quincy, Wash. Vehicle spring. 1,946,357; Feb. 6.

Pew, Arthur E., jr., Bryn Mawr, assignor to Sun Oil Company, Philadelphia, Pa. Cracking mineral oil. 1,946,329; Feb. 6.

Peyton, William C., New York, N. Y., assignor to Standard Stoker Company, Incorporated. Stoker. 1,945,787; Feb. 6.

Philadelphia Storage Battery Company. (See Earnshaw, David P., assignor.)

Philips' N. V., Gloeilampenfabrieken. (See Mulder, Johannes G. W., assignor.)

Phillips, Maurice M., South Side Pittsburgh, Pa. Radio receiving circuit. 1,946,107; Feb. 6.

Photo-Cylinder Corporation. (See Boedicker, Herman C., assignor.)

Piazza, Louis C., assignor to The Soundex Corporation, Chicago, Ill. Wall and ceiling construction. 1,945,564; Feb. 6.

Pickworth, John W. (See Weiskopf, W. H., and Pickworth.)

Pier, Mathis, Heidelberg, and K. Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Production of catalysts. 1,946,108; Feb. 6.

Pier, Mathis, Heidelberg, and K. Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Production of catalysts. 1,946,109; Feb. 6.

Pietras, Walter J. (See Bearman, J. H., and Pietras.)

Pilkington Brothers Limited. (See Gaskell, Joseph, assignor.)

Pilley, Frank, Kansas City, Mo., assignor, by mesne assignments, to Borden's Produce Company, Inc., New York, N. Y. Egg breaking machine. 1,945,788; Feb. 6.

Pioneer Gravel Equipment Manufacturing Company. (See Gustafson, Carl A., assignor.)

Pioneer Heat Regulator Corporation. (See Dicke, Oscar H., assignor.)

Pitter Trust, The. (See Pitter, Walter C., assignor.)

Pitter, Walter C., Epping, England, assignor to The Pitter Trust, Chicago, Ill. Variable speed transmission. 1,945,702; Feb. 6.

Pittsburgh Equitable Meter Company. (See Weymouth, Harry G., assignor.)

Pittsburgh Plate Glass Company. (See Fox, John H., assignor.)

Pittsburgh Plate Glass Company. (See Miller, Robert A., assignor.)

Pittsburgh Plate Glass Company. (See Owen, William, assignor.)

Pittsburgh Steel Company. (See Benedict, Edward L., assignor.)

Plummer, Sidney G., Oakland, Calif. Universal pipe joint. 1,946,110; Feb. 6.

Podel, Abraham, Bronx, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Sealing machine. 1,945,954; Feb. 6.

Pokorny, Ernst, Leipzig, and K. Schneider, Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing heavy-metal-beryllium alloys. 1,945,565; Feb. 6.

Porsche, Ferdinand, and K. Rabe, Stuttgart, Germany. Articulated differential gear, particularly for motor vehicles. 1,946,358; Feb. 6.

Posthumus, Klaas. (See van der Pol, B., Posthumus, and Tellegen.)

Potter, Harry F., Waterloo, Ind. Grave marker. 1,946,033; Feb. 6.

Pray, George E., Wading River, N. Y., assignor to Radio Corporation of America. Oscillation generation. 1,945,547; Feb. 6.

Preston, Harrison O., and F. J. Strowbridge, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Fluxing apparatus. 1,946,428; Feb. 6.

Price, Joseph, West New Brighton, Staten Island, assignor to The Griscom-Russell Company, New York, N. Y. Heat exchanger. 1,946,234; Feb. 6.

Price, Thornton W., New Brunswick, N. J. Draft controlling apparatus for furnace flues. 1,945,955; Feb. 6.

Priebe, Herman C., deceased, Blue Island, Ill., T. H. Taylor, administrator. Draft gear. 1,946,178; Feb. 6.

Quackenbush, Henry M., Herkimer, N. Y. Bowl. 1,945,995; Feb. 6.

Quigley, W. A. (See Goble, Bert G., assignor.)

Quinby, George B., Medford, assignor to Blake Electric Mfg. Company, Boston, Mass. Apparatus for handling webs of cloth. 1,945,981; Feb. 6.
Rabe, Karl. (See Porsche, F., and Rabe.)
Radiator Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Conklin, James W., assignor.)
Radio Corporation of America. (See Finch, J. L., and Conklin, assignors.)
Radio Corporation of America. (See Goldsmith, Alfred N., assignor.)
Radio Corporation of America. (See Jonker, J. L. H., and Van Geessel, assignors.)
Radio Corporation of America. (See Maurer, John A., jr., assignor.)
Radio Corporation of America. (See Miessner, Benjamin F., assignor.)
Radio Corporation of America. (See Pray, George E., assignor.)
Radio Corporation of America. (See van der Pol, B., Posthumus, and Tellegen, assignors.)
Radley, Sidney S., South Portland, Maine. Cream separator. 1,946,111; Feb. 6.
Raffetto, Joseph L., New York, N. Y. Radiocabinet. Des. 91,469; Feb. 6.
Ragals, William C., Buenos Aires, Argentina, assignor to Berth. Levi & Co., Inc., New York, N. Y. Weasand and preparing the same. 1,945,866; Feb. 6.
Ragsdale, Earl J. W., and J. C. Whitesell, jr., Norristown, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Seam welder. 1,946,445; Feb. 6.
Ramsay, Erskine, Birmingham, Ala. Mine roof support. 1,946,034; Feb. 6.
Rasch, William G., and J. A. Malcolm, assignors to Burlington Blanket Company, Burlington, Wis. Buffer pad. 1,945,823; Feb. 6.
Ravizza, Louis. (See Samaras, S., and Ravizza.)
Rawls, Paul C., assignor to Technical Equipment Company, Des Moines, Iowa. High frequency oscillatory apparatus for electro-therapeutic and sterilization purposes. 1,945,867; Feb. 6.
Raytheon Manufacturing Company. (See Smith, Charles G., assignor.)
Reed, Arthur G., Swissvale, Pa., assignor, by mesne assignments, to Transit Mixers, Inc., San Francisco, Calif. Mixing apparatus. 1,945,868; Feb. 6.
Reed Roller Bit Company. (See Behnke, Guy E., assignor.)
Reed Roller Bit Company. (See Giesey, Russell, assignor.)
Reeves, Beauford H., New Haven, Conn., assignor to Rockbestos Products Corporation. Insulated electrical conductor. 1,946,331; Feb. 6.
Reichart, William M., assignor to The Chandler & Price Company, Cleveland, Ohio. Paper cutting machine. 1,945,703; Feb. 6.
Rembert, Ernest W., Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Producing reactions with silica and products thereof. 1,945,534; Feb. 6.
Remelé, Adolf, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing stable bleaching powder. 1,945,913; Feb. 6.
Remington Rand Inc. (See Going, George B., assignor.)
Remington Typewriter Company. (See Going, George G., assignor.)
Remington Typewriter Company. (See Hart, Frederick A., assignor.)
Retterer, Raymond W. (See Murphy, F. K., Retterer, and Mitchell.)
Reubke, Emil, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of water-soluble phosphate compounds. 1,945,914; Feb. 6.
Reuter, Henry C., Chicago, Ill. Grating. 1,946,035; Feb. 6.
Revis, Morris A., Boston, Mass. Advertising device or toy. 1,945,789; Feb. 6.
Rewald, Bruno, assignor to Hanseatische Muhlenwerke Aktiengesellschaft, Hamburg, Germany. Dressing, sizing, and softening oil. 1,946,332; Feb. 6.
Rewald, Bruno, assignor to Hanseatische Muhlenwerke Aktiengesellschaft, Hamburg, Germany. Production of rubber mixtures. 1,946,333; Feb. 6.
Rhodes, Edmund O., and E. H. Hyde, Pittsburgh, Pa., assignors to American Tar Products Company, Inc. Composition of matter and preparing the same. 1,946,446; Feb. 6.
Richards, Benjamin, Kenilworth, Ill., assignor to "Automatic" Sprinkler Company, Cleveland, Ohio. Fire protective system. 1,945,620; Feb. 6.
Richards, Edward H., et al. (See Richards, Walter E., assignor.)
Richards, John A., et al. (See Richards, Walter E., assignor.)
Richards, Kelly, et al. (See Richards, Walter E., assignor.)
Richards, Walter E., Richmond, assignor of fifty per cent to K., E. H., and J. A. Richards, Owingsville, Ky. Embalmer's instrument. 1,945,656; Feb. 6.
Riedel, Curtis, New Brighton, Pa. Compressed air cream and egg whip. 1,945,915; Feb. 6.
Riedel, Walter W., assignor to Delco Products Corporation, Dayton, Ohio. Shock absorber. 1,945,566; Feb. 6.
Riegel Paper Corporation. (See Herrick, Walter W., assignor.)
Rike, Frederick F., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Valve. 1,945,657; Feb. 6.
Riley, Fred E., Livermore Falls, Maine. Lubricated valve and control system. 1,946,235; Feb. 6.
Riley, Fred E., Livermore Falls, Maine. Lubricated valve. 1,946,236; Feb. 6.
Rip Van Winkle Wall Bed Company. (See Sinclair, Neil, assignor.)
Riviere, Albert S., assignor to Union Special Machine Company, Chicago, Ill. Fabric guiding means for sewing machines. 1,946,359; Feb. 6.
Roberts, Harry W., Trenton, N. J. Dipping machine. 1,946,360; Feb. 6.
Roberts, Jacob E., Point Marion, Pa. Test checking apparatus. 1,946,361; Feb. 6.
Robertson, Hugh J., jr., New York, assignor to The Fibre Conduit Company, Orangeburg, N. Y. Outlet for electrical conduits and applying the same. 1,946,237; Feb. 6.
Robey, Andrew A., Lowell, Mass. Sterilizing apparatus. 1,946,362; Feb. 6.
Robinson, Joseph, New York, N. Y., assignor of one-half to R. M. Wolvin, Montreal, Quebec, Canada. Automatic train pipe connecter. 1,945,704; Feb. 6.
Rockbestos Products Corporation. (See Reeves, Beauford H., assignor.)
Rockwell, Edward A., Chicago, Ill. Power brake construction. 1,946,112; Feb. 6.
Roessler, Georg, Ludwigshafen-on-the-Rhine, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y. Production of colored photographic pictures. 1,945,658; Feb. 6.
Rogers Radio Tubes, Limited. (See Parker, Henry W., assignor.)
Rohm & Haas Company. (See Mayers, Henry H., assignor.)
Rohn, Wilhelm, Hanau-on-the-Main, Germany. Hot rolling steel strip. 1,946,240; Feb. 6.
Roirant, Emile, assignor to Société Anonyme d'Etudes et de Constructions d'Appareils Mecaniques pour la Verrerie, Paris, France. Apparatus for blowing bottles and other similar hollow bodies made of glass. 1,946,411; Feb. 6.
Rolph, Thomas W., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Ultra-violet light luminaire. 1,945,567; Feb. 6.
Ronzoni, Angelo, New York, assignor to Ronzoni Macaroni Company, Incorporated, Long Island City, N. Y. Die for forming spiral macaroni. 1,946,238; Feb. 6.
Ronzoni Macaroni Company. (See Ronzoni, Angelo, assignor.)
Rosenthal, Henry, New York, N. Y. Power transmission. 1,946,293; Feb. 6.
Rosenthal, Henry, New York, N. Y. Power transmission. 1,946,294; Feb. 6.
Rosier, Charles, New York, N. Y. Process for making oil gas. 1,945,790; Feb. 6.
Ross, Carroll A., Piqua, Ohio. Heating a container electrically. 1,945,705; Feb. 6.
Ross, Frederick N., assignor, by mesne assignments, to Briggs Manufacturing Company, Detroit, Mich. Cotton breaker. 1,946,113; Feb. 6.
Ross Heater & Mfg. Co. Inc. (See Graham, Harold M., assignor.)
Rossman, Edwin F., and F. D. Funston, assignors to Delco Products Corporation, Dayton, Ohio. Shock absorber. 1,945,568; Feb. 6.
Rossman, Rudolf, Solln, near Munich, Germany, assignor to TEFAG Textil Finans A.-G., Zurich, Switzerland. Driving arrangement for shuttles, especially loop shuttles. 1,945,996; Feb. 6.
Rossman, Rudolf, Solln, near Munich, Germany, assignor to TEFAG Textil Finanz A.-G., Zurich, Switzerland. Device for controlling the warps for figuring fabrics. 1,945,997; Feb. 6.
Rotheim, Erik, Oslo, Norway. Coating composition. 1,945,998; Feb. 6.
Rothelius, Carl G. B. (See Dahlstrom, E. R., and Rothelius.)
Rowe, George E., Wethersfield, assignor to The Hartford-Empire Company, Hartford, Conn. Manufacture of hollow glassware. 1,945,982; Feb. 6.
Rowe, George E., Wethersfield, assignor to The Hartford-Empire Company, Hartford, Conn. Method of and apparatus for manufacturing hollow glassware. 1,945,983; Feb. 6.
Rowell, Clifford B., Buffalo, N. Y. Telephone stand and light. 1,945,956; Feb. 6.
Rowell, George S., Cleveland, Ohio, assignor, by mesne assignments, to Multigraph Company, Wilmington, Del. Printing process and apparatus. 1,945,569; Feb. 6.
Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Fluid pressure actuated alarm device. 1,946,412; Feb. 6.
Rubber Service Laboratories Company, The. (See Sibley, Robert L., assignor.)
Rudolph, Paul, Grossbiesnitz, near Borlitz, Germany. Lens system. 1,945,570; Feb. 6.
Rudolph, Wilhelm, and B. Settegast, assignors to Electroacustic Gesellschaft mit beschrankter Haftung, Kiel, Germany. Arrangement for preventing cross-talk in subaqueous sound installations. 1,945,984; Feb. 6.
Rump, Sigurd, Zurich, and H. Thommen, Ennetbaden, Switzerland. Switch with contacts surrounded by a medium under pressure. 1,945,916; Feb. 6.

Rumpel, Harvey H., assignor to Smith Engineering Works, Milwaukee, Wis. Intercone mill. 1,945,791; Feb. 6.
Runyan, Arthur. (See Apgar, F. A., and Runyan.)
Ryan, Victor A., Millburn, assignor to Electro-Technical Coatings, Inc., Nutley, N. J. Electrician's tool. 1,946,239; Feb. 6.
S. H. G. Incorporated. (See Hermsdorf, Walter H., assignor.)
Sabel, John C., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Focusing lens mounting. 1,945,999; Feb. 6.
Sailer, Rudolph J., Townley, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Rug-binding attachment for sewing machines. 1,946,241; Feb. 6.
Sala, Charles J. (See Kern, J. G., and Sala.)
Salmon, Alvin E., Los Angeles, Calif. Finger nail enamel container and applicator. 1,945,957; Feb. 6.
Samaras, Stephen, and L. Ravizza, assignors to R. W. Dalziel, Oakland, Calif. Automatic display apparatus. 1,945,571; Feb. 6.
Samuels, George B., Burlington, Kans. Stock rack. 1,946,000; Feb. 6.
Sandbrook, Arthur, Newton, Mass. Screen holder. 1,945,572; Feb. 6.
Sandura Company. (See Baldwin, Julian T., assignor.)
Sanford, Roy S., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,946,036; Feb. 6.
Sarazin, Robert, Neuilly-sur-Seine, France. Electric welding with magnetic stabilization. 1,946,413; Feb. 6.
Satchwell, Leonard, Slough, England. Thermostat. 1,945,706; Feb. 6.
Saxe, Arthur C., assignor to The Jaeger Machine Company, Columbus, Ohio. Sand strainer for pumps. 1,945,824; Feb. 6.
Saxe, Arthur C., assignor to The Jaeger Machine Company, Columbus, Ohio. Shaft seal. 1,945,825; Feb. 6.
Scarpa, Giuseppe, Savona, Italy. Insulation of leads to electrical condensers. 1,945,917; Feb. 6.
Schade, Ralph J., Mount Lebanon, Pa. Furnace door frame. 1,946,295; Feb. 6.
Schallcross, Herbert L., Philadelphia, Pa. Typewriter ribbon and the like. 1,946,363; Feb. 6.
Scharschu, Charles A. (See Kiefer, G. C., and Scharschu.)
Schaul, Martin, assignor to Novopan Studiengesellschaft Zur Herstellung besseren und billigeren Brotes m. b. H., Frankfort-on-the-Main, Germany. Machine for making dough from cereals or the like. 1,946,001; Feb. 6.
Schering Kahlbaum, A. G. (See Schoeller, W., Schwenk, and Borgwardt, assignors.)
Schlitz, Bernard P., assignor to The Foote Burt Company, Cleveland, Ohio. Broaching tool. 1,945,535; Feb. 6.
Schlecht, Leo, Ludwigshafen-on-the-Rhine, and A. von-Nagel, Mannheim, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Production of nitrous oxide. 1,946,114; Feb. 6.
Schlossman, Norman J. (See O'Connell, D. J., Schlossman, Demuth, and Loebl.)
Schmid, Arnold, deceased, Vienna, Austria, H. Schmid and I. Schmid, administrators, assignors to Karl Schmid, Mannheim, Germany. Separating nitroglycerine from residual acids. 1,946,414; Feb. 6.
Schmid, Arnold, deceased, Burbach, Germany, H. Schmid and I. Schmid, administrators, assignors, to K. Schmid, Mannheim, Germany. Continuous separation of nitroglycerine and residuary acid. 1,946,415; Feb. 6.
Schmid, Hans, administrator, et al. (See Schmid, Arnold.)
Schmid, Hans, et al., administrators. (See Schmid, Arnold.)
Schmid, Irma, administrator, et al. (See Schmid, Arnold.)
Schmid, Karl. (See Schmid, Arnold, assignor.)
Schmidt, Albert H., Kansas City, Mo. Manufacturing molasses feed. 1,945,918; Feb. 6.
Schmidt, Leslie L. (See Olsen, C. A., and Schmidt.)
Schneider, Kurt. (See Pokorny, E., and Schneider.)
Schneider, Richard B. (See Weber, A. G., and Schneider.)
Schoedler, John L., Toledo, Ohio. Writing instrument holding device. Des. 91,470; Feb. 6.
Schoeller, Walter, E. Schwenk, Berlin-Westend, and E. Borgwardt, Berlin-Pankow, assignors to Schering-Kahlbaum, A. G., Berlin, Germany. Producing 3-methone. 1,946,115; Feb. 6.
Schomer, Henry J., assignor to Waite Carpet Company, Oshkosh, Wis. Tufting mechanism. 1,945,536; Feb. 6.
Schwartz, George L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Artificial fabric. 1,945,537; Feb. 6.
Schwartz, George L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Artificial fabric. 1,945,538; Feb. 6.
Schwartz, Nathan, assignor to Sylvia Schwartz, New York, N. Y. Respirator. 1,946,334; Feb. 6.
Schwartz, Sylvia. (See Schwartz, Nathan, assignor.)
Schwartz, William J., Chicago, Ill. Display rack. 1,945,573; Feb. 6.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 91,471; Feb. 6.
Schweizer, Ernst, Zurich, Switzerland. Machine for winding quick-traverse bobbins, especially for artificial silk. 1,945,659; Feb. 6.
Schwenk, Erwin. (See Schoeller, W., Schwenk, and Borgwardt.)
Schwerin, Frank H., Bellevue, assignor to The Duff-Norton Manufacturing Company, Pittsburgh, Pa. Lifting jack. 1,946,242; Feb. 6.
Scott, Jens T., Brooklyn, N. Y. Electric fish wire. 1,946,037; Feb. 6.
Scott, Merit, Ithaca, N. Y. Instrument for determining atmospheric conditions. 1,945,660; Feb. 6.
Scruggs, Oscar D., jr., Chattanooga, Tenn. Dough handling machine. 1,945,755; Feb. 6.
Seijo, Modesto F., Newark, N. J. Life saving mask. 1,945,919; Feb. 6.
Seiler, Michael I., assignor to Keystone Reamer & Tool Co., Millersburg, Pa. Glaze cutter. 1,946,416; Feb. 6.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Seneca Falls Machine Company. (See Smith, Edwin R., assignor.)
Seneca Falls Machine Company. (See Smith, E. R., and Peterson, assignors.)
Seneca Falls Machine Company. (See Smith, E. R., and Skinkez, assignors.)
Settegast, Bernhard. (See Rudolph, W., and Settegast.)
Shaffer, Elgie R., Columbus, Ohio. Trailer coupling. 1,945,921; Feb. 6.
Sharp, L. Alan, Avalon, Pa., assignor to National Electric Products Corporation, New York, N. Y. Electric conduit system and fitting therefor. 1,945,707; Feb. 6.
Sharpless, Stewart L., Sidney, Ohio. Paper folding machine. 1,945,756; Feb. 6.
Shaw, John, Leeds, England. Carrying reels of paper in printing and other machines. 1,945,621; Feb. 6.
Shearman, Alfred, Toronto, Ontario, Canada. Igniter for coal furnaces. 1,945,708; Feb. 6.
Shell Development Company. (See Buchel, J. A., and Jan Saal, assignors.)
Shepard, Francis H., jr. (See Braddon, F. D., and Shepard.)
Sibley, Robert L., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Age-resisting vulcanized rubber product. 1,946,002; Feb. 6.
Sibley, Robert L., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Treatment of latex. 1,946,003; Feb. 6.
Siddeley, John D., Kenilworth, England. Luggage carrier for motor vehicles. 1,946,385; Feb. 6.
Siemens & Halske Aktiengesellschaft. (See Arni, Hans, assignor.)
Siemens & Halske Aktiengesellschaft. (See Fischer, Fritz, assignor.)
Silverman, Joseph, Chicago, Ill. Folding chair. 1,945,574; Feb. 6.
Silvis, Robert E. (See Fenner, H. H., and Silvis.)
Sim, James, Cathcart, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Rotary gas pump. 1,945,759; Feb. 6.
Simkins, Howard D., East Cleveland, and O. P. De Loe, assignors to The Superior Screw and Bolt Manufacturing Company, Cleveland, Ohio. Machine for finishing bolts and screws. 1,946,243; Feb. 6.
Simmen, Paul J., Eden, N. Y. Automatic train control. 1,945,920; Feb. 6.
Simmons Company. (See Woller, Edward E., assignor.)
Simons, Paul, Weissig-Buhlau, near Dresden, Germany. Insulating electric conductors. 1,945,709; Feb. 6.
Simonsson, Hans P. B., Gottenborg, Sweden. Fastening means for curtain rods, portière rods, or the like. 1,946,417; Feb. 6.
Sinclair, Neil, assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif. Recess type wall bed. 1,945,826; Feb. 6.
Sinclair Refining Company. (See Apgar, F. A., and Runyan, assignors.)
Singer Manufacturing Company, The. (See Sailer, Rudolph J., assignor.)
Sinton, John F., and K. B. Anderson, assignors of one-half to Kobe, Inc., Los Angeles, Calif. Gas burner. 1,946,116; Feb. 6.
Sithens, Edward J., Cynwyd, Pa. Bookholder. 1,945,661; Feb. 6.
Skinkez, Albert. (See Smith, E. R., and Shinkez.)
Slavek, Frederick, New York, N. Y. Automatic power transmission means. 1,946,179; Feb. 6.
Slocum, Joseph H., Long Beach, and B. L. Welch, Fullerton, Calif.; said Welch assignor to said Slocum. Casing perforator. 1,945,958; Feb. 6.
Smalley, William, assignor to The Paterson Engineering Company, Limited, London, England. Apparatus for controlling the flow of fluids. 1,945,757; Feb. 6.
Smith, Arthur E., Kensington, near Sydney, New South Wales, Australia, assignor to Hartford-Empire Company, Hartford, Conn. Manufacture of bottles and other articles in glass and apparatus therefor. 1,945,985; Feb. 6.
Smith, Bedford K., Alexandria, Va. Electric fuse. 1,945,539; Feb. 6.
Smith, Bedford K., Alexandria, Va. Electric fuse. 1,945,540; Feb. 6.
Smith, Bedford K., Alexandria, Va. Electric fuse. 1,945,541; Feb. 6.
Smith, Bernard C., Long Island City, N. Y. Key-permutation lock. 1,946,364; Feb. 6.
Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Gaseous discharge device. 1,946,336; Feb. 6.
Smith, Charles H., Cleveland, Ohio. Forming forgings. 1,945,827; Feb. 6.

Smith, Edwin R., assignor to Seneca Falls Machine Company, Seneca Falls, N. Y. Loading and unloading mechanism for machine tools. 1,945,662; Feb. 6.

Smith, Edwin R., and J. L. Peterson, assignors to Seneca Falls Machine Company, Seneca Falls, N. Y. Multiple spindle lathe. 1,945,663; Feb. 6.

Smith, Edwin R., and A. Shinkez, assignors to Seneca Falls Machine Company, Seneca Falls, N. Y. Automatic lathe. 1,946,429; Feb. 6.

Smith Engineering Works. (See Rumpel, Harvey H., assignor.)

Smith, E. Payson. (See Johnson, Malcolm S., assignor.)

Smith, Frank B. (See Stoesser, W. C., and Smith.)

Smith, Franklin P. (See Frost, Carl A., assignor.)

Smith, Harry N., Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y. Baking form. 1,946,244; Feb. 6.

Smith, Milton B., Perrysburg, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Glider supporting frame. Des. 91,472; Feb. 6.

Smith, Silas B., Mound, Minn. Self-locking electrical connecter. 1,945,664; Feb. 6.

Smith, William H., East Molesey, England. Tile building construction. 1,946,180; Feb. 6.

Smith, Willoughby S., Benchams, Newton Poppleford, H. J. Garnett, Lymne, Solefields, Sevenoaks, and J. N. Dean, Orpington, England. Manufacture of submarine or other signaling cables. 1,946,337; Feb. 6.

Smoot, John H., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y. Reproducing device. 1,945,710; Feb. 6.

Snead, Edwin B., Dallas, Tex. Scaffold jack. 1,945,828; Feb. 6.

Sneed, John, Ferndale, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, as trustee for Steeldraulic Brake Corporation, Detroit, Mich. Cross shaft. 1,945,622; Feb. 6.

Societe Alsacienne de Constructions Mecaniques. (See Louis, Camille, assignor.)

Societe Anonyme des Ateliers Brillie Freres. (See Battesay, Constant, assignor.)

Société Anonyme d'Etudes et de Constructions d'Appareils Mecaniques pour la Verrerie. (See Roirant, Emile, assignor.)

Society of Chemical Industry in Basle. (See Graenacher, Charles, assignor.)

Society of Chemical Industry in Basle, The firm. (See Bonhote, Gerald, assignor.)

Soderlind, Roy, Ottawa, Ontario, Canada. Gas burner. 1,946,365; Feb. 6.

Sofield, William J., Berkeley, Calif. Screw holder device. 1,945,829; Feb. 6.

Sonoco Products Company. (See Dunlap, Charles K., assignor.)

Sonoco Products Company. (See Kennedy, Gibson H., assignor.)

Soundex Corporation, The. (See Plazza, Louis C., assignor.)

South Bend Current Controller Company. (See Guin, Lester W., assignor.)

Sparks, Samuel W., Bellevue, assignor of one-third to R. T. Lytle, one-third to L. W. Stofiel, Pittsburgh, and one-third to P. S. McPherson, Bellevue, Pa. Bituminous paint and making the same. 1,945,869; Feb. 6.

Sparks, Stanley W., assignor to C. H. Bickell, trustee, New York, N. Y. Method of and apparatus for extruding valves and multiflanged pipe fittings. 1,946,117; Feb. 6.

Sperry Products, Inc. (See Braddon, F. D., and Shepard, assignors.)

Sperry Products, Inc. (See Drake, H. C., and De Lanty, jr., assignors.)

Spurlin, Harold M., Kenvil, N. H., assignor to Hercules Powder Company, Wilmington, Del. Tracing paper and method of producing. 1,946,338; Feb. 6.

Staaff, Per H., Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Lubrication. 1,946,366; Feb. 6.

Stadler, Robert. (See Bueckert, H., Stadler, and Tanneberger.)

Staley, A. E., Manufacturing Company. (See MacIntyre, Aimwell G., assignor.)

Standard Boiler and Steel Works. (See Bliss, Carl G., assignor.)

Standard Electric Time Company. (See Harter, George F., assignor.)

Standard Gage Company. (See Aldeborgh, Erik H., assignor.)

Standard-I. G. Company. (See Pier, M., and Winkler, assignors.)

Standard Oil Company. (See Stockdale, T. E., and Keranen, assignors.)

Standard Stoker Company, The. (See Hunt, Andrew M., assignor.)

Standard Stoker Company, The. (See Ichter, John H., assignor.)

Standard Stoker Company. (See Lower, Nathan M., assignor.)

Standard Stoker Company. (See Peyton, William C., assignor.)

Standard Stoker Company, The. (See Turner, Edwin A., assignor.)

Standard Stoker Company. (See Turner, E. A., and Surdykowski, assignor.)

Stansbury, Carroll, Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Motor controller. 1,945,830; Feb. 6.

Stansbury, Carroll Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Control for dynamo-electric machines. 1,945,831; Feb. 6.

Star Sprinkler Corporation. (See Griffith, William B., assignor.)

Starbuck, Ernest, Peoria, Ill. Clutch. 1,946,038; Feb. 6.

Staritsky, Eugene, assignor, by mesne assignments, to The Dorr Company, Inc., New York, N. Y. Precoating in filtration. 1,946,039; Feb. 6.

Stebler, Fred, Riverside, assignor, by mesne assignments, to Food Machinery Corporation, San Jose, Calif. Washing fruit. 1,945,922; Feb. 6.

Steeldraulic Brake Corporation. (See Sneed, John, assignor.)

Steele, Lawrence L., assignor to The Essen Laboratories, Incorporated, Washington, D. C. Protected motion picture film and making same. 1,946,004; Feb. 6.

Steele, Lawrence L., assignor to The Essen Laboratories, Incorporated, Washington, D. C. Coated motion picture film. 1,946,005; Feb. 6.

Steiger, Norbert, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. 4,5-dimethyl-7-chloro-oxythionaphthene and its indigoid derivatives. 1,945,923; Feb. 6.

Steiner, Carl W., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,945,924; Feb. 6.

Stephens, Charles A. L., Mount Vernon, assignor to The Lorscheider-Schang Co., Inc., Rochester, N. Y. Windowed merchandise container. 1,945,792; Feb. 6.

Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Control means for high frequency apparatus. 1,946,296; Feb. 6.

Stephenson, William J., Bingham Lake, Minn. Spark plug—flash ignition type. 1,945,870; Feb. 6.

Stewart, Clyde E., Philadelphia, Pa., assignor to General Electric Company. Supervisory control system. 1,945,665; Feb. 6.

Stewart, Clyde E., Drexel Hill, Pa., assignor to General Electric Company. Indicating system. 1,945,666; Feb. 6.

Stewart, Clyde E., Drexel Hill, Pa., assignor to General Electric Company. Supervisory system. 1,945,667; Feb. 6.

Stiefel, William, Baldwin, N. Y. Metallic tie structure. 1,945,925; Feb. 6.

Stiles, Hugh R., Terre Haute, Ind. Propionic acid fermentation of fructose-containing mashes. 1,946,447; Feb. 6.

Stimpson, Walter F. (See Chance, C. T., and Patten, assignors.)

Stockdale, Thomas E., Hammond, Ind., and G. M. Keranen, assignors to Standard Oil Company, Chicago, Ill. Chamber coil connection. 1,946,118; Feb. 6.

Stoddard, Edgar S., Berwyn, assignor to The Conover Company, Chicago, Ill. Dishwashing machine. 1,946,181; Feb. 6.

Stoesser, Wesley C., and F. B. Smith, assignors to The Dow Chemical Company, Midland, Mich. Catalyst for the nuclear chlorination of benzene compounds and using same. 1,946,040; Feb. 6.

Stofiel, Lawrence W., et al. (See Sparks, Samuel W., assignor.)

Straight, Halver R., Adel, Iowa. Automobile rubber tire tread construction. 1,946,867; Feb. 6.

Strang, Perry S., Chicago, Ill. Illuminating apparatus. 1,945,832; Feb. 6.

Stroud, James, Stratford, Wash. Valve. 1,945,760; Feb. 6.

Strowbridge, Frederick J. (See Preston, H. O., and Strowbridge.)

Struckmeyer, Frederick, Dallas, Tex. Universal weeding implement. 1,946,006; Feb. 6.

Stuckey, Samuel G., assignor to Obear-Nester Glass Company, St. Louis, Mo. Method of and apparatus for feeding molten glass. 1,945 871; Feb. 6.

Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Alternating current control apparatus. 1,946,297; Feb. 6.

Sulphide Corporation. (See Brown, Raymond G., assignor.)

Sulphide Corporation. (See Levy, Stanley I., assignor.)

Sumpter, John E., Minneapolis, Minn., assignor to Delta-Star Electric Company, Chicago, Ill. Cable contactor and support. 1,945,575; Feb. 6.

Sun Oil Company. (See Pew, Arthur E., jr., assignor.)

Sunnen, Joseph, Kirkwood, Mo. Grinding machine abrasive element. 1,946,041; Feb. 6.

Superior Iron Works Company. (See Johnson, Almon A., assignor.)

Superior Screw and Bolt Manufacturing Company, The. (See Simkins, H. D., and De Loe, assignors.)

Surdy, Charles J. (See Turner, E. A., and Surdykowski.)

Surdykowski, Charles J. (See Turner, E. A., and Surdykowski.)

Swallen, Lloyd C. (See Gabriel, C. L., and Swallen.)

Swallen, Lloyd C., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of methyl amine from dimethyl ether. 1,946,245; Feb. 6.

Swanson, Raymond E., assignor to A. D. Cook, Inc., Lawrenceburg, Ind. Deep well turbine pump head and lubricating system therefor. 1,945,833; Feb. 6.

Swift and Company. (See Williams Alberto, assignor.)

Tanneberger, Helmut. (See Bueckert, H., Stadler, and Tanneberger.)

Tappe, Edward A., San Bernardino, Calif. Collapsible tube closure. 1,945,872; Feb. 6.

Taylor, Thomas H., administrator. (See Priebe, Herman C.)

Technical Equipment Company. (See Rawls, Paul C., assignor.)

TEFAG Textil Finanz A.-G. (See Rossmann, Rudolf, assignor.)

Tefra Co., The. (See McNally, Edwin M., assignor.)

Television Limited. (See Baird, John L., assignor.)

Tellegen, Bernardus D. H. (See van der Pol, B., Posthumus, and Tellegen.)

Terenzi, Philip, Fairfield, Ohio. Floor lamp. Des. 91,473; Feb. 6.

Ter Horst, William P., Akron, Ohio, assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treatment of rubber. 1,945,576; Feb. 6.

Ter Horst, William P., Akron, Ohio, assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treatment of rubber. 1,945,577; Feb. 6.

Ter Horst, William P., Akron, Ohio, assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treatment of rubber. 1,945,578; Feb. 6.

Terry, Charles M., assignor to A. W. Cash Company, Decatur, Ill. Valve. 1,945,834; Feb. 6.

Texas Company, The. (See Drake, R. L., and Titus, assignors.)

Texas Company, The. (See Preston, H. O., and Strowbridge, assignors.)

Thauss, Alfred, Cologne-Deutz, G. Mauthe, Cologne-Holweide, and A. Doser, Cologne-Mulheim, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Preparing water-soluble condensation products. 1,946,430; Feb. 6.

Theisz, Emil, Budapest, assignor to Egyesült Izzólámpa és Villamossági Részvénytársaság, Ujpest, near Budapest, Hungary. Electrodeposition of alkaline earth metal compounds on metal. 1,945,623; Feb. 6.

Thoma, Walter, Hasbrouck Heights, N. J., assignor to E. W. Bliss Company, Brooklyn, N. Y. Edge curling machine. 1,945,579; Feb. 6.

Thomas, Errold B., Newton, Mass. Filling mechanism and method. 1,946,298; Feb. 6.

Thomas, George. (See Lewis, W. T., and Thomas.)

Thomas, Gershom E., assignor of one-half to J. Christian, Germantown, Pa. Foldable luggage carrier. 1,946,368; Feb. 6.

Thommen, Hans. (See Rump, S., and Thommen.)

Thompson, Charles S., State Line, assignor to The Manufacturers Light and Heat Company, Pittsburgh, Pa. Apparatus and method of utilizing energy normally wasted in reducing the pressure of fluids. 1,946,182; Feb. 6.

Thompson, Ernest H., Hubbard Woods, assignor to Johnson Fare Box Co., Chicago, Ill. Fare collection system. 1,945,835; Feb. 6.

Thompson, Russell G., assignor to Electromatic Typewriters, Inc., Rochester, N. Y. Typewriting machine. 1,945,836; Feb. 6.

Thompson, Russell G., assignor to Electromatic Typewriters, Inc., Rochester, N. Y. Remote control apparatus. 1,945,837; Feb. 6.

Thrasher, Warren G., assignor to National Fireworks, Inc., West Hanover, Mass. Process and apparatus for charging pyrotechnical articles and the like. 1,946,042; Feb. 6.

Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)

Timken-Detroit Axle Company, The. (See Buckendale, Laurence E., assignor.)

Timken-Detroit Axle Company, The. (See Morgan, Mathew B., assignor.)

Titus, Leon D. (See Drake, R. L., and Titus.)

Toce, Charles A., Houston, and G. D. Fleak, assignors to E. D. Clem, Beaumont, Tex. Game apparatus. 1,945,873; Feb. 6.

Tolhurst, Louis H., Los Angeles, Calif. Method of and apparatus for producing motion pictures. 1,945,926; Feb. 6.

Tompkins, Eric S. (See Hardeman, W. E., and Tompkins.)

Tomache, Emil, New York, N. Y. Indicator for electrical heating appliances. 1,946,246; Feb. 6.

Toplifter, Inc. (See Olsen, Carl A., assignor.)

Torterud, Martin, Arnold, assignor to Aluminum Company of America, Pittsburgh, Pa. Coating. 1,946,148; Feb. 6.

Tosterud, Martin, Arnold, assignor to Aluminum Company of America, Pittsburgh, Pa. Coating of aluminum. 1,946,150; Feb. 6.

Tower, Max L., and H. W. Dye, assignors to Niagara Sprayer and Chemical Company, Inc., Middleport, N. Y. Parasiticide and making the same. 1,945,542; Feb. 6.

Tracy, Howard E., assignor to O. S. Walker Company, Inc., Worcester, Mass. Grinding machine. 1,945,986; Feb. 6.

Trans-Lux Daylight Picture Screen Corporation. (See Smoot, John H., assignor.)

Transit Mixers, Inc. (See Reed, Arthur G., assignor.)

Traver, Oliver C., Drexel Hill, Pa., assignor to General Electric Company. Control of electric circuits. 1,946,299; Feb. 6.

Treadwell Engineering Company. (See Mikaelson, Erik W., assignor.)

Trefethen, Charles G. (See Belden, A. G., and Trefethen.)

Trico Products Corporation. (See Horton, E. C., and Hueber, assignors.)

Trumbull Electric Manufacturing Company, The. (See Harvey, Frank, assignor.)

Truscon Steel Company. (See White, H. E., and McLaughlin, assignors.)

Tuck, George A., San Fracisco, Calif. Gas control system and apparatus. 1,946,043; Feb. 6.

Tumbler, J. A., Laboratories. (See Tumbler, Joseph A., assignor.)

Tumbler, Joseph A., assignor to J. A. Tumbler Laboratories, Baltimore, Md. Bottle. Des. 91,474; Feb. 6.

Turnal, Eugene, Jackson Heights, N. Y., assignor of one-half to A. Kovacs, Kuruc-Korut, Hungary. Collapsible rocking and reclining chair. 1,945,580; Feb. 6.

Turner, Charles L., Berlin, Wis. Milk strainer. 1,945,668; Feb. 6.

Turner, Edwin A., New York, N. Y., assignor to The Standard Stoker Company, Incorporated. Locomotive stoker. 1,946,044; Feb. 6.

Turner, Edwin A., New York, N. Y., assignor to The Standard Stoker Company, Incorporated. Stoker. 1,946,046; Feb. 6.

Turner, Edwin A., and C. J. Surdykowski; said Surdyskowski (now by judicial change of name Charles J. Surdy) assignor to The Standard Stoker Company, Incorporated. Locomotive mud ring. 1,946,045; Feb. 6.

Turner, George A., Stockton, Calif. Fruit dumping method and apparatus. 1,945,758; Feb. 6.

Turner, Ransom H., Auburndale, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. 1,946,369; Feb. 6.

Uni-Flo Grille Corporation. (See Germonprez, John A., assignor.)

Union Special Machine Company. (See Riviere, Albert S., assignor.)

Union Switch & Signal Company, The. (See Bell, Charles W., assignor.)

United Aircraft Products, Inc. (See Hiester, Theodore M., assignor.)

United Piece Dye Works. (See Baer, Walter A., assignor.)

United Shoe Machinery Corporation. (See Chaplin, Herbert L., assignor.)

United Shoe Machinery Corporation. (See James, Lester E., assignor.)

United Shoe Machinery Corporation. (See Macdonald, David B., assignor.)

United States Air Compressor Company, The. (See Hall, Walter V., assignor.)

United States Gypsum Co. (See Birdsey, Charles R., assignor.)

United States Tire Company. (See Patrick, Russell, assignor.)

Universal Draft Gear Attachment Co. (See Camp, P. B., and Wilson, assignors.)

Universal Oil Products Company. (See Cook, Ralph C., assignor.)

Universal Oil Products Company. (See Davis, Richard F., assignor.)

Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)

Universal Oil Products Company. (See Gerstenberger, Donald F., assignor.)

Universal Oil Products Company. (See Morrell, Jacque C., assignor.)

Universal Oil Products Company. (See Morrell, J. C., and Egloff, assignors.)

Universal Optical Corporation. (See Nelson, John N., assignor.)

Van Aukn, Charles M., Detroit, Mich. Windshield wiper. 1,946,119; Feb. 6.

Van der Pol, Balthasar, K. Posthumus, and B. D. H. Tellegen, Eindhoven, Netherlands, assignors to Radio Corporation of America. Thermionic amplifier. 1,946,047; Feb. 6.

Vandy, Edgar J. (See Wilkins, W., and Vandy.)

Vandy, George E. (See Wilkins, W., and Vandy, assignors.)

Van Gessel, Karel M. (See Jonker, J. L. H., and Van Gessel.)

Van Halteren, Andrew S., East Lansing, assignor to Motor Wheel Corporation, Lansing, Mich. Wheel hub assembly. 1,945,793; Feb. 6.

Varney, William W. (See Leilah, Frank T. and R. K.)

Vaughan, William, Mount Holly, N. J., assignor to The Permutit Company, New York, N. Y. Making gels. 1,945,838; Feb. 6.

Vercruyssen, August, Chicago, Ill. Automatic draft and combustion control. 1,946,300; Feb. 6.

Verderber, Joseph, assignor to Cleveland Universal Jig Company, Cleveland, Ohio. Driving-locking mechanism. 1,946,048; Feb. 6.

Vickery, Frederick W., London, England, assignor to Vickery Incorporated. Doctor for paper-making machinery. 1,945,761; Feb. 6.

Vickery Incorporated. (See Vickery, Frederick W., assignor.)

Vigers, Ronald W., and E. E. Chatterton, assignors to D. Napier & Son Limited, London, England. Fuel injection device for internal combustion engines. 1,946,339; Feb. 6.

Vile, Merwin S., assignor to The Fafnir Bearing Company, New Britain, Conn. Pillow block. 1,946,431; Feb. 6.

Vodoz, Frederick W., Wilmette, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining drill and bit. 1,945,711; Feb. 6.

Vogt, Arthur G. (See Boblett, K. M., and Vogt.)

Vogt, Charles H., Philadelphia, Pa. Skinless and casingless sausage and packaging same. 1,945,669; Feb. 6.

Von Maltitz, Edmund, Chicago, Ill. Filtering apparatus. 1,945,839; Feb. 6.
Von Nagel, Alfred. (See Schlecht, L., and von Nagel.)
Von Szeszich, Lajos, Constance, assignor to Deutsche Gold- & Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Destructive hydrogenation of carbonaceous materials. 1,946,341; Feb. 6.
Vorwerk, Paul O. F., assignor to Edelstahlwerk Röchling Aktiengesellschaft Volklingen-on-the-Saar, Germany. Spring. 1,946,340; Feb. 6.
Wachsman, Jacob, Brooklyn, N. Y. Stop mechanism for knitting machines. Re19,069; Feb. 6.
Wadd, Roy J., assignor to Harnischfeger Corporation, Milwaukee, Wis. Hoist. 1,945,712; Feb. 6.
Waddell, Benson F. (See Dollin, E. N., and Waddell.)
Wagner, Joshua, assignor to Diagonal Corrugated Patent Corporation, Brooklyn, N. Y. Taped paper board. 1,945,624; Feb. 6.
Wahl Company, The. (See Lungren, Arthur N., assignor.)
Waite Carpet Company. (See Schomer, Henry J., assignor.)
Waldron, John, Corporation. (See Case, Lynn B., assignor.)
Wales, Nathaniel B., New York, N. Y. Brewing device. 1,946,247; Feb. 6.
Walker, Charles, Knoxville, Tenn. Vending machine. 1,946,370; Feb. 6.
Walker, Charles, Knoxville, Tenn. Stamp vending machine. 1,946,371; Feb. 6.
Walker, Charles, Knoxville, Tenn. Combined filling station pump and vending machine. 1,946,372; Feb. 6.
Walker, Herbert W. (See Downing, F. B., and Walker.)
Walker, O. S., Company. (See Tracy, Howard E., assignor.)
Wallis, John S., assignor to Foster Wheeler Corporation, New York, N. Y. Oil refining. 1,945,581; Feb. 6.
Walsh, Henry J., Long Island City, N. Y. Bat. 1,946,373; Feb. 6.
Wappler Electric Company, Inc. (See Mutscheller, Arthur, assignor.)
Warder, Leicester P., and H. P. Manley, Johannesburg, Union of South Africa. Parcel rack. 1,946,374; Feb. 6.
Ware, Rodney B., Scituate, Mass. Drafting device or utility. 1,945,987; Feb. 6.
Watson, Alfred, Highland Park, Pa. Mailing sheet. 1,945,927; Feb. 6.
Watson, Samuel E., Chanaral, Chile. Golf club. 1,946,007; Feb. 6.
Wean Engineering Company, The. (See Evans, A. D., assignor, and Clark.)
Weatherford, Joseph H. (See McPherson, H. L., and Weatherford.)
Weaver, Ira A., Springfield, Ill. Gyroscopic vehicle steering stabilizer. 1,945,874; Feb. 6.
Weber, Arthur G., and R. B. Schneider, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydraulic fluid. 1,945,543; Feb. 6.
Weigel, Albert C., East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y. Device for securing dry steam. 1,946,248; Feb. 6.
Weinstein, Louis H., Mount Vernon, N. Y. Fabric. 1,946,301; Feb. 6.
Weir, G. & J., Limited. (See Sim, James, assignor.)
Weiskopf, Walter H., Cedarhurst, and J. W. Pickworth, Bronxville, N. Y. Plate girder. 1,946,049; Feb. 6.
Weiss, Arthur J., West Orange, N. J., assignor to Compo Shoe Machinery Corporation, New York, N. Y. Sole-affixing machine. 1,945,762; Feb. 6.
Welch, Bert L. (See Slocum, J. H., and Welch.)
Welch, Edward E., Sacramento, Calif. Support for concrete reenforcing steel. 1,946,418; Feb. 6.
Welker Die & Machine Works. (See Lowe, William J., assignor.)
Welker, Sarah B. (See Lowe, William J., assignor.)
Weller, Irving F., Schenectady, N. Y., assignor to General Electric Company. Welding apparatus. 1,946,302; Feb. 6.
Wemmer, James B. (See Gudgeon, S. A., and Wemmer.)
Wendell, Samuel I., Chicago, Ill. Compass. 1,945,713; Feb. 6.
Wentjar, Herman, assignor of one-half to R. F. Dotsch, Olympia, Wash. Veneer machine. 1,946,375; Feb. 6.
Werk, Casimir L., jr., Cincinnati, Ohio. Punching machine. 1,945,794; Feb. 6.
Werner, Ludlow E., Brooklyn, N. Y. Window opening and closing device. 1,946,050; Feb. 6.
Westad, August. (See Birrer, Alfred, assignor.)
Western Electric Company. (See Baguley, Eric, assignor.)
Western Electric Company. (See Long, Maurice B., assignor.)
Westinghouse Lamp Company. (See Brumley, John D., assignor.)
Westinghouse Lamp Company. (See Lederer, E. A., and Marden, assignors.)
Westinghouse Lamp Company. (See Moran, William G., assignor.)
Westinghouse Lamp Company. (See Morrison, Montford, assignor.)
Westinghouse X-Ray Company. (See Morrison, Montford, assignor.)
Wetherbee, Charles P., Bath, Maine, and J. E. Burkhardt, Quincy, Mass., assignors to Bethlehem Shipbuilding Corporation, Ltd. Power plant apparatus. 1,946,249; Feb. 6.
Weymouth, Harry G., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Meter hanger. 1,946,342; Feb. 6.
Whaley, Harold R., assignor to Maple Grove Candies, Inc., St. Johnsbury, Vt. Candy container or the like. 1,946,250; Feb. 6.
Whetzel, Joshua C. (See Cook, W. O., Miller, and Whetzel.)
Whitcomb, Arthur J., assignor to Freyn Engineering Company, Chicago, Ill. Mechanism for automatically measuring coke by volume. 1,946,120; Feb. 6.
White, Ben W., Blytheville, Ark. Adjustable damper. 1,946,008; Feb. 6.
White, Harry H., assignor to E. D. Barringer, Cleveland, Ohio. Weather strip. 1,946,251; Feb. 6.
White, Herbert E., and T. B. McLaughlin, Cleveland, assignors to Truscon Steel Company, Youngstown, Ohio. Railroad crossing structure. 1,946,448; Feb. 6.
White, S. S., Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)
White, Warren B., North Abington, Mass. Self-sharpening lawn mower. 1,945,582; Feb. 6.
Whitesell, John C., jr. (See Ragsdale, E. J. W., and Whitesell, jr.)
Whiting, Jasper, Dublin, N. H. Combination lock. 1,946,376; Feb. 6.
Wicha, Alois, Dresden, Germany, assignor to Erospha, Inc., Brooklyn, N. Y. Fluid actuator and pump. 1,946,343; Feb. 6.
Wicha, Alois, Dresden, Germany, assignor to Erospha, Inc., Brooklyn, N. Y. Lubrication system. 1,946,344; Feb. 6.
Wickes, Powers A. (See Nourse, W. H., and Wickes.)
Wieland, Heinrich, Munich, assignor to the firm of C. H. Boehringer Sohn, Nieder-Ingelheim-on-the-Rhine, Germany. Preparing lobelia alkaloids, their derivatives, and allied compounds. 1,946,345; Feb. 6.
Wietzel, Rudolf, and B. Engel, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Separation of finely divided impurities from liquids. 1,945,583; Feb. 6.
Wiggin, Daniel W., assignor to The Abbott Company, Yarmouth, Maine. Calked sole structure. 1,945,840; Feb. 6.
Wilcox, Chester M., Charlotte, Mich., assignor to General Apparatus Corporation, New York, N. Y. Radio receiving apparatus. 1,945,795; Feb. 6.
Wiles, Sydney T., assignor to Buffalo Electric Furnace Corporation, Buffalo, N. Y. Method of and apparatus for propagating reactions. 1,946,252; Feb. 6.
Wilkins, Walter, Finchley, London, and E. J. Vandy, Manor Park, London, assignors of one-third to G. E. Vandy, London, England. Machine for producing or reproducing designs and other forms. 1,945,928; Feb. 6.
Wille, Walter O. (See Clay, J. B., and Wille.)
Willey, Marney B., Dallas, Tex. Dry closet. 1,945,841; Feb. 6.
Willheim, William, assignor to J. Oltarsh, New York, N. Y. Textile fabric or similar article. Des. 91,475; Feb. 6.
Williams, Alberto, Buenos Aires, Argentina, assignor to Swift and Company, Chicago, Ill. Protective paint or lacquer for food containers. 1,945,584; Feb. 6.
Williams, Alfred D., Montclair, N. J. Paper. Des. 91,476; Feb. 6.
Williams, Frederick J., and H. E. Martin, Cumberland, Md., assignors to Celanese Corporation of America. Treatment of yarn. 1,945,959; Feb. 6.
Williams, Thomas H., assignor to National Rubber Machinery Company, Akron, Ohio. Collapsible drum. 1,946,449; Feb. 6.
Williamson, Henry C., Marlin, Tex. Vending machine. 1,946,183; Feb. 6.
Wilson, Arden M. (See Knight, C., and Wilson.)
Wilson, Jack. (See Camp, P. B., and Wilson.)
Winkle, Eugen, Iller, Germany. Copying lathe for shoelasts and the like. 1,946,253; Feb. 6.
Winkler, Fritz, and H. Haeuber, Ludwigshafen-on-the-Rhine, Germany. Production of hydrocarbons. 1,945,960; Feb. 6.
Winkler, Karl. (See Pier, M., and Winkler.)
Winogradow, Alexander, New York, N. Y. Impregnating porous material with solid substances. 1,945,714; Feb. 6.
Winstead, Martin H., Lexington, Nebr. Piston ring. 1,945,763; Feb. 6.
Winthrop Chemical Company, Inc. (See Schlecht, L., and von Nagel, assignors.)
Wintrob, Jacob M., Philadelphia, Pa. Curtain fitting. 1,945,585; Feb. 6.
Wired Radio, Inc. (See Davis, Chester L., assignor.)
Wired Radio, Inc. (See Duncan, Robert D., jr., assignor.)
Wired Radio, Inc. (See Herdman, William J., assignor.)
Wired Radio, Inc. (See Hund, August, assignor.)
Wirz, A. H., Inc. (See Darlington, Henry S., assignor.)
Wiswell, Arthur M., Roseburg, Oreg. Map display and cabinet. 1,945,961; Feb. 6.
Wiswell, Ozro N., Los Angeles, Calif., assignor, by mesne assignments, to C-O-Two Fire Equipment Company, Newark, N. J. Discharge head for fluid containers. 1,945,715; Feb. 6.
Witchger, Eugene J., assignor to Lufkin Rule Co., Saginaw, Mich. Tape measure. 1,945,842; Feb. 6.
Witham, George S., jr., Lincoln, N. H. Freeness indicator and recorder. 1,945,988; Feb. 6.
Woller, Edward E., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Folding berth. 1,945,875; Feb. 6.

Wolvin, Roy M. (See Robinson, Joseph, assignor.)
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Roll support shifting device. 1,945,670; Feb. 6.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Plate-locking mechanism. 1,945,671; Feb. 6.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, Reginald H., Albany, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Record control for recording machines. 1,945,716; Feb. 6.
Wood, Robert T., Lakewood, Ohio, assignor, by mesne assignments, to Magnesium Development Corporation. Die lubricant. 1,946,121; Feb. 6.
Woodall, Herbert J., Detroit, Mich. Laminated panel and fabrication. 1,945,717; Feb. 6.
Woodall Industries Incorporated. (See Zinser, Paul R., assignor.)
Woodhouse, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of carboxylic acids. 1,946,254; Feb. 6.
Woodhouse, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of carboxylic acids. 1,946,256; Feb. 6.
Woodruff, John C., and G. Bloomfield, Terre Haute, Ind., and I. J. Krchma, Baltimore, Md., assignors to Commercial Solvents Corporation, Terre Haute, Ind. Recovery of organic acids. 1,946,419; Feb. 6.
Woodruff, Walter N., Farragut, Iowa. Canvas belt slat protector. 1,945,843; Feb. 6.
Woods, Edward F., Oakland, Calif. Stripe painting machine. 1,946,260; Feb. 6.
World Bestos Corporation. (See Brockway, Carl P., assignor.)
Wynd, John, Tarentum, Pa., assignor to Duplate Corporation. Fitting form for glass plates. 1,946,377; Feb. 6.
Young, Forrest J., Torrance, Calif., assignor to The National Supply Company of Delaware. Rotary machine. 1,945,876; Feb. 6.
Young, Leonard A., Detroit, Mich. Golf club. 1,945,844; Feb. 6.
Young, Leonard A., Detroit, Mich. Golf ball and making. 1,946,378; Feb. 6.
Zapf, Georg, Cologne, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. High tension submarine cable. 1,945,764; Feb. 6.
Zerk, Oscar U., assignor to Alemite Corporation, Chicago, Ill. Lubricating means. 1,945,845; Feb. 6.
Ziesing, William A., Seattle, Wash. Vehicle light. 1,946,379; Feb. 6.
Zinser, Paul R., assignor to Woodall Industries Incorporated, Detroit, Mich. Fabrication of thermo-plastic sheet material. 1,945,718; Feb. 6.
Zupa, Frank A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic switching device. 1,946,261; Feb. 6.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF FEBRUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acetylene, Purification of. H. Bueckert, R. Stadler, and H. Tanneberger. 1,945,592; Feb. 6.
Acid fermentation of fructose-containing mashes, Propionic. H. R. Stiles. 1,946,447; Feb. 6.
Acid process, Contact sulphuric. A. O. Jaeger. 1,945,811; Feb. 6.
Acids, Preparation of aliphatic organic. G. B. Carpenter. 1,946,259; Feb. 6.
Acids, Preparation of carboxylic. G. B. Carpenter. 1,946,255; Feb. 6.
Acids, Preparation of carboxylic. J. C. Woodhouse. 1,946,254; Feb. 6.
Acids, Preparation of carboxylic. J. C. Woodhouse. 1,946,256; Feb. 6.
Acids, Preparation of organic. G. B. Carpenter. 1,946,257; Feb. 6.
Acids, Preparation of organic. W. H. Carothers and G. B. Carpenter. 1,946,258; Feb. 6.
Acids, Recovery of organic. J. C. Woodruff, G. Bloomfield, and I. J. Krchma. 1,946,419; Feb. 6.
Adding machine. M. M. Munk. 1,946,174; Feb. 6.
Address printing machine. J. Krell. 1,945,643; Feb. 6.
Adhesive preparations, Apparatus for applying. R. J. O'Brien and E. Hazell. 1,945,700; Feb. 6.
Adsorbent and making same, Neutral. D. S. Belden and W. Kelley. 1,946,124; Feb. 6.
Advertising device, Aerial. M. A. Neal. 1,945,785; Feb. 6.
Advertising device or toy. M. A. Revis. 1,945,789; Feb. 6.
Aeroplane propeller blades, Apparatus for varying the pitch of. C. T. Chance and M. K. Patten. 1,946,387; Feb. 6.
Afocal objectives. H. S. Newcomer. 1,945,951; Feb. 6.
Air conditioning system and apparatus therefor. F. T. and R. K. Leilich. 1,945,944; Feb. 6.
Air conditioning unit. E. H. Koon. 1,945,553; Feb. 6.
Air cleaner. A. W. Miller. 1,946,291; Feb. 6.
Aircraft. G. W. Cornelius. 1,945,520; Feb. 6.
Aircraft training and sport apparatus. H. J. Mallon. 1,945,698; Feb. 6.
Air release mechanism for dispensing apparatus. C. P. Griffith. 1,946,399; Feb. 6.
Air to a fire box, Admitting. N. M. Lower. 1,945,817; Feb. 6.
Alarm device, Fluid-pressure-actuated. A. C. Rowley. 1,946,412; Feb. 6.
Alcohol directly from mashes and the like, Apparatus for producing anhydrous ethyl. A. Gorhan. 1,946,020; Feb. 6.
Alkyloamine derivatives of aliphatic acids. J. G. Kern and C. J. Sala. 1,946,079–80; Feb. 6.
Alloy. G. Masing and W. Kroll. 1,945,653; Feb. 6.
Alloy, Corrosion resistant. M. G. Corson. 1,945,679; Feb. 6.
Alloy, Ferrous. G. J. Comstock. 1,946,130; Feb. 6.
Alloys of precious metals which are amenable to heat treatment, Manufacture of. L. Nowack. 1,946,231; Feb. 6.
Alloys, Producing heavy metal beryllium. E. Pokorn and K. Schneider. 1,945,565; Feb. 6.
Aluminum and aluminum alloy, Coated. H. Bengston. 1,946,147; Feb. 6.
Aluminum from corrosion, Protecting. J. D. Edwards. 1,946,151–3; Feb. 6.
Amplifier system, Push pull. B. F. Miessner. 1,946,092; Feb. 6.
Amplifier, Thermionic. B. van der Pol, K. Posthumus, and B. D. H. Tellegen. 1,946,047; Feb. 6.
Amusement and training apparatus. H. J. Mallon. 1,945,697; Feb. 6.
Anamorphosing objective. H. S. Newcomer. 1,945,950; Feb. 6.
Antenna compensator. C. L. Davis. 1,945,735; Feb. 6.
Anthropometer. C. Huebschle. 1,946,075; Feb. 6.
Applicator employing vapor passed through a beam of radiant energy, Therapeutic. F. R. Hart and S. W. Lasher. 1,945,856; Feb. 6.
Applicator, Hair waving. F. Forlves. 1,945,936; Feb. 6.
Aquariums, Apparatus for aerating. M. Arneth. 1,945,962; Feb. 6.
Arch support. J. C. Howell. 1,945,688; Feb. 6.
Arm, Recoil operated small. A. L. Chevallier. 1,946,388; Feb. 6.
Articles with pyroxylin or the like, Coating. W. C. Hampton. 1,946,208; Feb. 6.
Artificial fabric. G. L. Schwartz. 1,945,537–8; Feb. 6.
Artillery wheel. W. H. Farr and C. L. Eksergian. Des. 91,457; Feb. 6.
Artillery wheel. P. W. Gaenssle and T. A. Davenport. Des. 91,458; Feb. 6.
Autoclave. T. W. Barber. 1,945,766; Feb. 6.
Automatic power press. K. M. Boblett and A. G. Vogt. 1,945,992; Feb. 6.

Axle, Automotive. H. W. Alden. 1,946,051; Feb. 6.
Axle, Automotive. M. B. Morgan. 1,946,093; Feb. 6.
Azo-dyestuffs and making same. G. Bonhôte. 1,946,010; Feb. 6.
Balance indicator for weighing scales. J. L. Campbell. 1,945,770; Feb. 6.
Ball and method of making, Golf. L. A. Young. 1,946,378; Feb. 6.
Ballast device. C. P. Brockway. 1,945,726; Feb. 6.
Bat. H. J. Walsh. 1,946,373; Feb. 6.
Battery. C. H. King. 1,945,694; Feb. 6.
Battery filling device. W. C. Desmond. 1,946,314; Feb. 6.
Beacon, Wind indicating aeronautical search-light. F. Boyle. 1,946,351; Feb. 6.
Bearing: *See*—
Centrifugal pump bearing. Submersible bearing.
Bearing of axles and shafts. J. McLintock. 1,946,409; Feb. 6.
Bed, Recess type wall. N. Sinclair. 1,945,826; Feb. 6.
Beehive press. C. List. 1,945,861; Feb. 6.
Bench, locker, and sunshade, Combined beach. C. A. Frost. 1,946,137; Feb. 6.
Berth, Folding. E. E. Woller. 1,945,875; Feb. 6.
Billets, Apparatus for casting. F. C. Elder. 1,945,887; Feb. 6.
Binder, Loose leaf. S. B. Freiberg. 1,945,970; Feb. 6.
Binding post. G. F. Harter. 1,945,857; Feb. 6.
Bit: *See*—
Roller bit.
Bituminous paint and making the same. S. W. Sparks. 1,945,869; Feb. 6.
Blade and mounting, Wiper. E. C. Horton and H. Hueber. 1,946,073; Feb. 6.
Blank feeder. F. M. Joslin. 1,945,903; Feb. 6.
Bleaching powder, Producing stable. A. Remelé. 1,945,913; Feb. 6.
Block: *See*—
Pillow block.
Plate glass polishing block.
Blower. B. M. Hess. 1,946,162; Feb. 6.
Board: *See*—
Taped paper board.
Bobbins, Device for cleaning. E. A. McKillop. 1,945,654; Feb. 6.
Boiler and the like, Ham. H. V. Churchill. 1,946,149; Feb. 6.
Bookholder. E. J. Sithens. 1,945,661; Feb. 6.
Bottle. J. A. Tumbler. Des. 91,474; Feb. 6.
Bottles and other articles in glass and apparatus therefor, Manufacture of. A. E. Smith. 1,945,985; Feb. 6.
Bottles and other similar hollow bodies made of glass, Apparatus for blowing. E. Roirant. 1,946,411; Feb. 6.
Bowl. H. M. Quackenbush. 1,945,995; Feb. 6.
Box: *See*—
Pilferproof box. Terminal box.
Spool box.
Box. C. S. Andrews. 1,946,433; Feb. 6.
Bracket for lamps, Adjustable. L. C. Doane. 1,945,739; Feb. 6.
Brake: *See*—
Fluid brake. Motor vehicle brake.
Hydraulic brake.
Brake. H. F. Parker. 1,946,032; Feb. 6.
Brake. R. S. Sanford. 1,946,036; Feb. 6.
Brake construction, Power. E. A. Rockwell. 1,946,112; Feb. 6.
Brake drum. R. J. Norton. 1,946,103; Feb. 6.
Brake drum for hoisting reels. B. Boykin, jr. 1,946,269; Feb. 6.
Brake mechanism for railway cars. P. B. Camp and J. Wilson. Re19,072; Feb. 6.
Brake rotor. R. J. Norton. 1,946,102; Feb. 6.
Brake shaft support. K. E. Lyman. 1,946,086; Feb. 6.
Brake slack adjuster. M. S. Johnson. 1,945,692; Feb. 6.
Brake system for automotive vehicles, Vacuum. C. S. Bragg and V. W. Kliesrath. 1,945,515; Feb. 6.
Brake system for automotive vehicles, Vacuum. C. S. Bragg and V. W. Kliesrath. 1,946,127; Feb. 6.
Brake testing machine. F. I. Marshall. 1,946,087; Feb. 6.
Brake testing structure. R. J. Norton. 1,946,101; Feb. 6.
Braking mechanism. A. H. G. Girling. 1,945,891; Feb. 6.
Breathing device. W. Black. 1,946,126; Feb. 6.
Brewing device. N. B. Wales. 1,946,247; Feb. 6.
Broaching press. W. D. Burger. 1,945,879; Feb. 6.
Broaching tool. B. P. Schilts. 1,945,535; Feb. 6.
Brush, Fountain shaving. R. G. Hemphill. 1,945,938; Feb. 6.
Buffer pad. W. G. Rasch and J. A. Malcolm. 1,945,823; Feb. 6.
Burglarproof screen. H. O. Bank. 1,946,381; Feb. 6.

Burner: *See*—
Coal burner. Gas burner.
Burner. E. N. Dollin and B. F. Waddell. 1,945,934; Feb. 6.
Cabinet for cash registers. J. D. Lorenz. Des. 91,465; Feb. 6.
Cabinet for surgical gauze and the like, Sanitary dispensing. A. H. Parlett. 1,946,105; Feb. 6.
Cabinet, Napkin dispensing. C. O. Parmley. 1,945,911; Feb. 6.
Cable. C. P. Brodhun. 1,946,190; Feb. 6.
Cable contactor and support. J. E. Sumpter. 1,945,575; Feb. 6.
Cable, High tension submarine. G. Zapf. 1,945,764; Feb. 6.
Cables, Manufacture of submarine or other signaling. W. S. Smith, H. J. Garnett, and J. N. Dean. 1,946,337; Feb. 6.
Cam grinding machine, Automatic. A. G. Belden and C. G. Trefethen. 1,945,588; Feb. 6.
Cam lever closing arrangement for pressure cooking pots. A. R. Pagano. 1,945,752; Feb. 6.
Camera flash-light attachment. G. L. Lang. 1,945,942; Feb. 6.
Canvas belt slat protector. W. N. Woodruff. 1,945,843; Feb. 6.
Cap feeding mechanism. C. Fields. 1,945,888; Feb. 6.
Cap for paste tubes. W. T. Herrick. 1,945,638; Feb. 6.
Carbonaceous materials, Destructive hydrogenation of. L. von Szeszich. 1,946,341; Feb. 6.
Carboy container. J. J. Bach and J. B. Flaws. 1,945,797; Feb. 6.
Carburetor. Z. S. Hoffman. 1,945,609; Feb. 6.
Carburetor. H. H. Huber. 1,946,284; Feb. 6.
Carburetor throttle operating mechanism. F. D. Funston. 1,945,603; Feb. 6.
Carrier: *See*—
Foldable luggage carrier.
Carrier conveyer system. D. E. Chambers. 1,946,307; Feb. 6.
Carrier for motor vehicles, Luggage. J. D. Siddeley. 1,946,335; Feb. 6.
Carton. G. T. Gibson. Des. 91,459; Feb. 6.
Cash register. T. E. D. Bilde and S. E. Lindvall. 1,945,589; Feb. 6.
Casing for a portable electric drill. A. G. Decker. Des. 91,464; Feb. 6.
Casing for heaters, Circular. L. E. Brackett. 1,945,966; Feb. 6.
Casing perforator. J. H. Slocum and B. L. Welch. 1,945,958; Feb. 6.
Cast spider construction. P. M. Miller. 1,946,172; Feb. 6.
Castings, Production of metal. R. W. Bailey. 1,946,450–1; Feb. 6.
Catalyst for the nuclear chlorination of benzene compounds and using same. W. C. Stoesser and F. B. Smith. 1,946,040; Feb. 6.
Catalysts Production of. M. Pier and K. Winkler. 1,946,108–9; Feb. 6.
Catalytic apparatus. A. O. Jaeger. 1,945,812; Feb. 6.
Cathode ray tube. H. W. Parker. 1,945,980; Feb. 6.
Cellulose nitrate, Reduction of the viscosity of. R. K. Eskew. 1,946,067; Feb. 6.
Cement. M. E. Delaney. 1,945,803; Feb. 6.
Cement, Manufacturing a magnesia. R. Matsuura. 1,946,327; Feb. 6.
Centrifugal apparatus. A. and A. Peltzer, jr. 1,945,786; Feb. 6.
Centrifugal pump. O. Jacobsen. 1,946,212; Feb. 6.
Centrifugal pump bearing. E. W. Heller. 1,946,439; Feb. 6.
Cereal food. E. H. McKay. 1,945,946–7; Feb. 6.
Chair: *See*—
Folding chair.
Rocking and reclining chair.
Chair for water closet bowls, Carrier. J. Heinkel. 1,946,140; Feb. 6.
Chamber coil connection. T. E. Stockdale and G. M. Keranen. 1,946,118; Feb. 6.
Check for steering mechanism. B. B. Fox. 1,946,156; Feb. 6.
Chemical container. E. A. Hults. 1,945,689; Feb. 6.
Child's seat. J. Kersten. 1,945,781; Feb. 6.
Chock for automobile lifts, Automatic. E. E. Hollister. 1,946,320; Feb. 6.
Chromium alloys, Manufacturing low-carbon. T. R. Haglund. 1,946,161; Feb. 6.
Chuck for tools, Clamping. H. Görg. 1,946,158; Feb. 6.
Chute for mixers, Discharge. O. G. Mandt. 1,946,222; Feb. 6.
Cigar, cigarette, or the like receptacle. J. W. Fitz Gerald. 1,945,805; Feb. 6.
Circuits, Control of electric. O. C. Traver. 1,946,209; Feb. 6.
Clamp: *See*—
Reel clamp.
Clamping jig, Indexed cam-controlled. J. W. Brown, jr. 1,946,420; Feb. 6.
Clamping mechanism. W. J. Lowe. 1,946,027; Feb. 6.
Cleaner: *See*—
Air cleaner. Windshield cleaner.
Cleaning device. H. W. Hunter. 1,946,321; Feb. 6.
Clean-out mechanism. L. E. Jones. 1,946,023; Feb. 6.
Clean-out mechanism for fruit treating apparatus. L. E. Jones. 1,946,022; Feb. 6.
Cleansing composition. R. H. Brownlee. 1,946,272; Feb. 6.
Clock, Electrically controlled. C. Battegay. 1,945,989; Feb. 6.
Closet, Dry. M. B. Wiley. 1,945,841; Feb. 6.
Closing means for collapsible tubes. J. Lacher. 1,945,612; Feb. 6.
Cloth, Apparatus for handling webs of. G. B. Quinby. 1,945,981; Feb. 6.
Clutch. E. Starbuck. 1,946,038; Feb. 6.
Clutch and brake control mechanism. F. G. and W. M. Folberth. 1,945,807; Feb. 6.
Clutch and electric coasting device, Automatic electromagnetic. J. W. Easter. 1,946,200; Feb. 6.
Clutch mechanism. D. L. Cramp. 1,946,062; Feb. 6.
Clutch operating mechanism. C. O. Guernsey. Re19,071; Feb. 6.
Clutching mechanism. E. Neurath. 1,946,177; Feb. 6.
Coach, Combination day and sleeping railroad. A. E. Hutt. 1,945,691; Feb. 6.
Coal, Apparatus for mining. N. D. Levin. 1,945,744; Feb. 6.
Coal burner, Automatic. W. B. Eddison. 1,946,201; Feb. 6.
Coal dust furnace. E. Burg. 1,946,011; Feb. 6.
Coating. M. Tosterud. 1,946,148; Feb. 6.
Coating composition. E. Rotheim. 1,945,998; Feb. 6.
Coating machine. H. L. Chapin. 1,945,519; Feb. 6.
Coating of aluminum. M. Tosterud. 1,946,150; Feb. 6.
Coffee, Roasting. J. F. Gilbreath. 1,946,398; Feb. 6.
Coins or other tokens for genuineness, Testing. T. M. Edison. 1,945,740; Feb. 6.
Coins or other tokens for genuineness, Testing. F. W. Hoban. 1,945,529; Feb. 6.
Coke by volume, Mechanism for automatically measuring. A. J. Whitcomb. 1,946,120; Feb. 6.
Collar and neckband, Combined shirt. J. H. Bearman and W. J. Pietras. 1,945,509; Feb. 6.
Color photography objective. A. Oswald. 1,945,977; Feb. 6.
Color producing device. W. T. Lewis and G. Thomas. 1,946,020; Feb. 6.
Combination lock. J. Whiting. 1,946,376; Feb. 6.
Compass. S. I. Wendell. 1,945,713; Feb. 6.
Composition for the impregnation of cable insulation. G. F. Kennedy. 1,946,322; Feb. 6.
Composition of matter. E. H. Hyde and F. D. Hager. 1,946,462; Feb. 6.
Composition of matter and preparing the same. E. O. Rhodes and E. H. Hyde. 1,946,446; Feb. 6.
Concentrator, Automatic dry. J. F. Gibson. 1,945,526; Feb. 6.
Concrete tamping apparatus. T. J. Owen. 1,945,563; Feb. 6.
Condensation products, Preparing water-soluble. A. Thauss, G. Mauthe, and A. Doser. 1,946,430; Feb. 6.
Conductor, Insulated electrical. B. H. Reeves. 1,946,331; Feb. 6.
Conductors, Insulating electric. P. Simons. 1,945,709; Feb. 6.
Conduit system and fitting therefor, Electric. L. A. Sharp. 1,945,707; Feb. 6.
Confections, Apparatus for making frozen. S. Isenberg. 1,946,442; Feb. 6.
Connecter: *See*—
Electrical connecter. Train pipe connecter.
Connecter. R. Patrick. 1,946,106; Feb. 6.
Contact apparatus. G. B. Coubrough. 1,945,600; Feb. 6.
Container: *See*—
Carboy container. Windowed merchandise container.
Chemical container.
Container adapted to ready use and sealing the same, Adhesive liquid. G. W. Nesmith. 1,946,330; Feb. 6.
Container and applicator, Finger nail enamel. A. E. Salmon. 1,945,957; Feb. 6.
Container or the like, Candy. H. R. Whaley. 1,946,250; Feb. 6.
Containers, Device for opening. H. S. Darlington. 1,945,885; Feb. 6.
Control and timing apparatus. C. G. Bliss. 1,945,800; Feb. 6.
Control for dynamo-electric machines. C. Stansbury. 1,945,831; Feb. 6.
Control instrument, apparatus and method. T. R. Harrison. 1,946,280; Feb. 6.
Control means for high frequency apparatus. H. M. Stephenson. 1,946,296; Feb. 6.
Control system. J. A. Hepperlen. 1,946,281; Feb. 6.
Control system. F. A. Hoeke. 1,946,282; Feb. 6.
Control system, Supervisory. C. E. Stewart. 1,945,665; Feb. 6.
Conveyer, Glassware. E. G. Bridges. 1,946,452; Feb. 6.
Conveyer wheel. P. E. Angle. 1,945,506; Feb. 6.
Conveying device for use in bakeries. H. P. den Boer. 1,945,886; Feb. 6.
Conveying mechanism. J. R. Brodbeck. 1,946,453; Feb. 6.
Conveying mechanism. A. D. Evans and H. H. Clark. 1,946,458; Feb. 6.
Cooker. F. Lotz. 1,946,220; Feb. 6.
Cord take-out and pay-out for electric lamps, Automatic. L. Brosilow, W. Markoff, and J. Orosz. 1,946,128; Feb. 6.
Cotton breaker. F. N. Ross. 1,946,113; Feb. 6.
Cotton extracting and cleaning machine. J. E. Mitchell. 1,945,783; Feb. 6.

Coupling: *See*—
Friction coupling. Trailer coupling.
Cover: *See*—
Spring cover. Tire cover.
Cover for reflectors, Dust. L. C. Doane. 1,945,738; Feb. 6.
Cream and egg whip, Compressed air. C. Riedel. 1,945,915; Feb. 6.
Cream separator. S. S. Radley. 1,946,111; Feb. 6.
Cross shaft. J. Sneed. 1,945,622; Feb. 6.
Cross-talk in subaqueous sound installations, Arrangement for preventing. W. Rudolph and B. Settegast. 1,945,984; Feb. 6.
Crown feed to bottle crowning machines. J. W. Flower. 1,945,889; Feb. 6.
Crusher, Stone. C. A. Gustafson. 1,945,853; Feb. 6.
Cultivator. T. W. Johnson. 1,946,402–3; Feb. 6.
Cultivator attachment for tractors. E. V. Collins. 1,945,882; Feb. 6.
Cup dropping machine. C. F. Adams. 1,945,846; Feb. 6.
Cups, Device for cleaning teat. C. H. Hapgood. 1,946,400; Feb. 6.
Current control apparatus, Alternating. C. G. Suits. 1,946,297; Feb. 6.
Current rectifying installation, Alternating. J. G. W. Mulder. 1,945,993; Feb. 6.
Current rectifying system, Electric. G. Brunner. 1,945,627; Feb. 6.
Curtain fitting. J. M. Wintrob. 1,945,585; Feb. 6.
Cut-out for alternating current motors, Pneumatically operated. G. H. Irwin. 1,946,165; Feb. 6.
Cut-out for incandescent electric lamps and similar devices. E. Friederich and G. Aschermann. 1,946,279; Feb. 6.
Cutter: *See*—
Milling cutter. Tire cutter.
Potato chip cutter. Tube cutter.
Cylinders, Apparatus for making embossing. F. Fischer. 1,945,935; Feb. 6.
Cylinders for engraving lenticular elements on films, Manufacturing goffering. H. Arni. 1,945,586; Feb. 6.
Damper, Adjustable. B. W. White. 1,946,008; Feb. 6.
Damper clutch plate assembly, Flexible. W. F. Hughes. 1,946,144; Feb. 6.
Deep well pump, Fluid-motor. C. J. Coberly. 1,946,454; Feb. 6.
Dental device. C. D. Mastrud. 1,945,616; Feb. 6.
Dental plate. P. Bergerhausen and J. Kufferath. 1,945,767; Feb. 6.
Diaphragms adapted for use in physical or like apparatus, Manufacture of. C. Chilowsky and P. Breton. 1,945,933; Feb. 6.
Die and holder, Threading. O. E. Koehler. 1,945,906; Feb. 6.
Die for forming spiral macaroni. A. Ronzoni. 1,946,238; Feb. 6.
Dipping machine. H. W. Roberts. 1,946,360; Feb. 6.
Direction indicator. J. G. Jackson. 1,946,424; Feb. 6.
Discharge device, Luminous. M. Morrison. 1,945,750; Feb. 6.
Discharge head for fluid containers. O. N. Wiswell. 1,945,715 Feb. 6.
Discharge tube. W. H. T. Holden. 1,945,639; Feb. 6.
Discharge tube stabilizer system. M. Morrison. 1,945,751; Feb. 6.
Discharge valve. F. Kluge. 1,945,941 Feb. 6.
Dishwashing machine. E. S. Stoddard. 1,946,181; Feb. 6.
Display apparatus, Automatic. S. Samaras and L. Ravizza. 1,945,571; Feb. 6.
Display device. S. Lowen. 1,945,945; Feb. 6.
Display rack. W. J. Schwartz. 1,945,573; Feb. 6.
Display support. G. A. Flora. 1,945,806; Feb. 6.
Distillate produced in distilling or cracking hydrocarbons, Stabilization of light. R. C. Cook. 1,945,599; Feb. 6.
Distillation of solid carbonizable material, Destructive. L. C. Karrick. 1,945,530; Feb. 6.
Distributor for hydraulic reversing turbines. A. Huguenin. 1,945,901; Feb. 6.
Doctor for paper-making machinery. F. W. Vickery. 1,945,761; Feb. 6.
Door, Grain. J. W. Hiltz. 1,945,974; Feb. 6.
Doorlock and framing. H. R. Cullmer. 1,945,734; Feb. 6.
Door saddle, Metal. M. Katz. 1,945,859; Feb. 6.
Door speed control, Revolving. T. M. Hagenbook. 1,946,160; Feb. 6.
Dough handling machine. O. D. Scruggs, jr. 1,945,755; Feb. 6.
Draft and combustion control, Automatic. A. Vercruyssen. 1,946,300; Feb. 6.
Draft controlling apparatus for furnace flues. T. W. Price. 1,945,955; Feb. 6.
Draft gear. H. C. Priebe. 1,946,178; Feb. 6.
Draft regulator, Automatic. F. M. Garman. 1,946,157; Feb. 6.
Draft rigging. H. J. Lounsbury. 1,945,696; Feb. 6.
Drafting device or utility. R. B. Ware. 1,945,987; Feb. 6.
Drainage means for window or similar frames. W. E. Leigh. 1,945,816; Feb. 6.
Drawer partition. P. Dennerlein. 1,945,773; Feb. 6.
Drier. N. H. Buschman. 1,946,386; Feb. 6.
Drill. R. Gleesey. 1,945,937; Feb. 6.
Drill. M. C. Kabigting. 1,946,214; Feb. 6.
Drill and bit, Mining. F. W. Vodoz. 1,945,711; Feb. 6.
Driving and control mechanism for a reciprocated member, Hydraulic. S. W. Bath. 1,946,348; Feb. 6.
Driving arrangement for shuttles, especially loop shuttles. R. Rossmann. 1,945,996; Feb. 6.
Driving-locking mechanism. J. Verderber. 1,946,049; Feb. 6.
Drum, Collapsible. T. H. Williams. 1,946,449; Feb. 6.
Dynamometer, Electrical. R. J. Norton. 1,946,099–100; Feb. 6.
Edge curling machine. W. Thoma. 1,945,579; Feb. 6.
Egg breaking machine. F. Pilley. 1,945,788; Feb. 6.
Egg whites, Recovering. J. A. Lamer. 1,945,860; Feb. 6.
Electric cells, Apparatus for assembling. P. B. Aronson. 1,945,673; Feb. 6.
Electric-circuit-cut-in, Portable. W. H. Hindman. 1,945,939; Feb. 6.
Electric control for the printing mechanism of addressing machines. J. Krell. 1,945,644; Feb. 6.
Electric cut-out. F. Harvey. 1,946,071; Feb. 6.
Electric lamp. T. Ohara, K. Enomoto, and K. Honda. 1,946,104; Feb. 6.
Electric lamp, Multiple filament. W. Dawson. 1,946,393; Feb. 6.
Electric lock. L. R. and J. U. Baril. 1,946,384; Feb. 6.
Electric meter. P. D. Flehr. 1,945,523; Feb. 6.
Electric switch. A. J. Dawe. 1,946,132; Feb. 6.
Electrical connecter, Self-locking. S. B. Smith. 1,945,664; Feb. 6.
Electrical distribution system. J. A. Brooks and E. A. Cerf, jr. 1,945,590–1; Feb. 6.
Electrically heated device. C. N. Clement. 1,945,628; Feb. 6.
Electrician's tool. V. A. Ryan. 1,946,239; Feb. 6.
Electrodeposition of alkaline earth metal compounds on metal. E. Theisz. 1,945,623; Feb. 6.
Electron discharge device. W. K. Kearsley. 1,946,288; Feb. 6.
Electron discharge device with indirectly heated cathode. E. A. Lederer and J. W. Marden. 1,945,746; Feb. 6.
Electron discharge tube. J. L. H. Jonker and K. M. Van Gessel. 1,946,076; Feb. 6.
Electron discharge tube. H. W. Parker. 1,945,979; Feb. 6.
Embalmer's instrument. W. E. Richards. 1,945,656; Feb. 6.
Energy normally wasted in reducing the pressure of fluids, Apparatus and method of utilizing. C. S. Thompson. 1,946,182; Feb. 6.
Engine: *See*—
Internal combustion engine.
Engine. A. C. Brownlee. 1,946,271; Feb. 6.
Engine and pulverulent fuel feeding device, Combined steam. A. M. Hunt. 1,945,778; Feb. 6.
Ethylene glycol phthalate. C. L. Gabriel and L. C. Swallen. 1,946,202; Feb. 6.
Extension cord reel. G. Fisler. 1,945,602; Feb. 6.
Eyeglass and spectacle mounting or bridge, Type of. L. J. Page. 1,946,233; Feb. 6.
Fabric: *See*—
Artificial fabric.
Fabric. L. H. Weinstein. 1,946,301; Feb. 6.
Fabric, Apparatus for the production of welded wire. J. Gaskell. 1,945,890; Feb. 6.
Fabrics, Coating. J. McGavack. 1,946,090; Feb. 6.
Fabrics of various kinds by needle action, Manufacture of. J. Morton. 1,946,030; Feb. 6.
Fare-collection system. E. H. Thompson. 1,945,835; Feb. 6.
Fastening means for curtain rods, portière rods, or the like. H. P. B. Simonsson. 1,946,417; Feb. 6.
Faucet. J. Andrés y Hernandez. 1,945,637; Feb. 6.
Feeder: *See*—
Blank feeder.
Feeding mechanism for grinding mills. J. Holland-Letz. 1,946 084; Feb. 6.
Fifth wheel lock. L. E. Lubbers. 1,946,167; Feb. 6.
Filling machine. H. R. Lewis. 1,946,025; Feb. 6.
Filling mechanism and method. E. B. Thomas. 1,946,298; Feb. 6.
Film and making same, Protected motion picture. L. L. Steele. 1,946,004; Feb. 6.
Film, Coated motion picture. L. L. Steele. 1,946,005; Feb. 6.
Film gate. G. G. Moreno. 1,945,909; Feb. 6.
Films and obtaining synchronized film and shutter movements in cinematographic cameras and projectors, Intermittently traversing photographic. C. E. Hillery-Collings. 1,946,310; Feb. 6.
Filter. G. T. Hiett. 1,946,163; Feb. 6.
Filtering apparatus. E. von Maltitz. 1,945,839; Feb. 6.
Fire-protective system. B. Richards. 1,945,620; Feb. 6.
Flashlight. M. E. Buchholz. 1,946,059; Feb. 6.
Flaw detector for tubular conductors. F. D. Braddon and F. H. Shepard, jr. 1,946,189; Feb. 6.
Flaws, Detecting. H. C. Drake and L. J. De Lanty. 1,946,196; Feb. 6.
Flood packer. P. H. Mack. 1,946,353; Feb. 6.
Floor covering. C. O. Karpf. Des. 91,463; Feb. 6.
Floor lamp. P. Terenzi. Des. 91,473; Feb. 6.
Fluid actuator and pump. A. Wicha. 1,946,343; Feb. 6.
Fluid brake. S. A. Gudgeon and J. B. Wemmer. 1,945,606; Feb. 6.
Fluid, Hydraulic. A. G. Weber and R. B. Schneider. 1,945,543; Feb. 6.
Fluid measuring apparatus. C. D. Collins. 1,946,275; Feb. 6.

Fluids, Apparatus for controlling the flow of. W. Smalley. 1,945,757; Feb. 6.
Fluorine compounds, Purification of organic. H. W. Daudt. 1,946,195; Feb. 6.
Fluxing apparatus. H. O. Preston and F. J. Strowbridge. 1,946,428; Feb. 6.
Foldable luggage carrier. G. E. Thomas. 1,946,368; Feb. 6.
Folding chair. J. Kovats. 1,946,082; Feb. 6.
Folding chair. J. Silverman. 1,945,574; Feb. 6.
Folding mechanism. H. Howe. 1,945,899; Feb. 6.
Forgings, Forming. C. H. Smith. 1,945,827; Feb. 6.
Form, Baking. H. N. Smith. 1,946,244; Feb. 6.
Form for glass plates, Fitting. J. Wynd. 1,946,377; Feb. 6.
4.6-dimethyl-7-chloro-oxythionaphthene and its indigoid derivatives. N. Steiger. 1,945,923; Feb. 6.
Foxing treating machine. L. E. James. 1,945,640; Feb. 6.
Frame: *See*—
Furnace door frame.
Freeness indicator and recorder. G. S. Witham, jr. 1,945,988; Feb. 6.
Frequency changing system for high frequency signaling apparatus. L. A. Gebhard. 1,945,525; Feb. 6.
Frequency control. J. W. Conklin. 1,945,544; Feb. 6.
Frequency control and modulation system. A. Hund. 1,945,690; Feb. 6.
Frequency control system. J. L. Finch and J. W. Conklin. 1,945,545; Feb. 6.
Friction coupling. J. H. Bach. 1,946,263; Feb. 6.
Fruit dumping method and apparatus. G. A. Turner. 1,945,758; Feb. 6.
Fruit jar lifter. F. Koch, jr. 1,945,642; Feb. 6.
Fruit or the like, Packaging. G. K. S. Ferguson. 1,946,315; Feb. 6.
Fruit, Washing. F. Stebler. 1,945,922; Feb. 6.
Fuel distributing system. J. H. Ichter. 1,946,443; Feb. 6.
Fuel feed control mechanism. T. H. Filmer. 1,945,850; Feb. 6.
Fuel injection device for internal-combustion engines. R. W. Vigers and E. E. Chatterton. 1,946,339; Feb. 6.
Fuel stabilization, Motor. F. B. Downing and H. W. Walker. 1,945,521; Feb. 6.
Furnace: *See*—
Coal dust furnace. Metallurgical furnace.
Furnace-door frame. R. J. Schade. 1,946,295; Feb. 6.
Furnace wall. J. M. Lamble. 1,946,083; Feb. 6.
Fuse. E. Adams and S. W. Blakelee. 1,945,672; Feb. 6.
Fuse, Electric. B. K. Smith. 1,945,539–41; Feb. 6.
Fuselage joint. F. E. Loudy. 1,946,408; Feb. 6.
Game. J. A. Barry. 1,945,798; Feb. 6.
Game apparatus. C. A. Olsen and L. L. Schmidt. 1,946,232; Feb. 6.
Game apparatus. C. A. Toce and G. D. Fleak. 1,945,873; Feb. 6.
Game device, Educational. E. B. Hamilton. 1,946,318; Feb. 6.
Garment. C. E. Martin. 1,945,747; Feb. 6.
Garment. S. I. Miller and M. Boriski. 1,946,173; Feb. 6.
Gas burner. J. F. Sinton and K. B. Anderson. 1,946,116; Feb. 6.
Gas burner. R. Soderlind. 1,946,365; Feb. 6.
Gas control system and apparatus. G. A. Tuck. 1,946,043; Feb. 6.
Gas, Generating combustible. W. H. Hermsdorf. 1,945,550; Feb. 6.
Gas, Making oil. C. Rosier. 1,945,790; Feb. 6.
Gas mixtures, Separating. M. Fränkl. 1,945,634; Feb. 6.
Gaseous discharge device. C. G. Smith. 1,946,336; Feb. 6.
Gate: *See*—
Film gate.
Gate type rotary pump. T. L. Morris and W. A. Grant. 1,946,097; Feb. 6.
Gauge: *See*—
Tire gauge.
Gauge. W. Ames. 1,945,796; Feb. 6.
Gear: *See*—
Draft gear.
Gear, particularly for motor vehicles, Articulated differential. F. Porsche and K. Rabe. 1,946,358; Feb. 6.
Gels, Making. W. Vaughan. 1,945,838; Feb. 6.
Girder, Plate. W. H. Weiskopf and J. W. Pickworth. 1,946,049; Feb. 6.
Glass apparatus. J. L. Drake. 1,945,601; Feb. 6.
Glass cutting apparatus. W. Owen. 1,946,356; Feb. 6.
Glass, Method and apparatus for making wire. C. B. Kingsley. 1,945,695; Feb. 6.
Glass, Method of and apparatus for feeding molten. S. G. Stuckey. 1,945,871; Feb. 6.
Glass rolling apparatus, Plate. J. H. Fox. 1,946,397; Feb. 6.
Glassware, Manufacture of hollow. G. E. Rowe. 1,945,982; Feb. 6.
Glassware, Method of and apparatus for manufacturing hollow. G. E. Rowe. 1,945,983; Feb. 6.
Glaze cutter. M. I. Seiler. 1,946,416; Feb. 6.
Golf club. W. L. Dyce. 1,946,134; Feb. 6.
Golf club. S. E. Watson. 1,946,007; Feb. 6.
Golf club. L. A. Young. 1,945,844; Feb. 6.
Grader, Road. J. E. Carlson. 1,945,517; Feb. 6.
Grading machine. J. W. Johnston. 1,945,858; Feb. 6.
Grate, Oscillating. L. B. Jones. 1,945,782; Feb. 6.
Grating. H. C. Reuter. 1,946,035; Feb. 6.
Grinding machine. G. H. Kennedy. 1,945,904; Feb. 6.
Grinding machine. H. E. Tracy. 1,945,986; Feb. 6.
Grinding machine abrasive element. J. Sunnen. 1,946,041; Feb. 6.
Gun, Combination hand and air grease. A. Johnson. 1,945,813; Feb. 6.
Gun, Grease. W. V. Hall. 1,945,855; Feb. 6.
Gun, Grease. E. J. Macey. 1,945,651; Feb. 6.
Gun, Hand-operated high-pressure grease. H. Kreidel. 1,945,556; Feb. 6.
Gun, Hot air. A. W. Adams. 1,946,262; Feb. 6.
Gypsum products, Producing porous. H. O. Kauffmann. 1,946,077; Feb. 6.
Hair, Apparatus for waving. R. Mussy. 1,946,444; Feb. 6.
Hair curler or waver. W. J. Caley. 1,945,932; Feb. 6.
Hair waving machine. W. H. Cooper. 1,946,392; Feb. 6.
Half-tone screen. A. A. Pearson. 1,945,865; Feb. 6.
Halo-fluoro-compounds, Purification of organic. R. A. Dunphy. 1,946,199; Feb. 6.
Handle-testing machine. R. L. Drake and L. D. Titus. 1,946,438; Feb. 6.
Hanger: *See*—
Meter hanger. Picture hanger.
Heat exchanger. J. Price. 1,946,234; Feb. 6.
Heat generating unit. E. Johnson. 1,945,902; Feb. 6.
Heat regulating system. O. H. Dicke. 1,945,804; Feb. 6.
Heat treatment of aluminum-magnesium alloys. E. H. Dix, jr., and L. W. Kempf. 1,945,737; Feb. 6.
Heater: *See*—
Liquid heater. Solar heater.
Heater. J. H. Long. 1,946,407; Feb. 6.
Heating a container electrically. C. A. Ross. 1,945,705; Feb. 6.
Heating plant, Boiler feed water. C. Loutz. 1,946,221; Feb. 6.
Heel cushion. R. H. Johnson. 1,945,780; Feb. 6.
Heel lift machine. C. A. Olsen. 1,945,864; Feb. 6.
High tension switch. A. Kuntke. 1,946,324; Feb. 6.
Hoist. R. J. Wadd. 1,945,712; Feb. 6.
Holder: *See*—
Screen holder.
Holding device, Writing instrument. J. L. Schoedler. Des. 91,470; Feb. 6.
Hollander. H. Banning. 1,946,347; Feb. 6.
Horizon, Artificial. R. J. Horlacher. 1,946,072; Feb. 6.
Hose end fitting, Method of assembly of a. J. R. Heidloff. 1,945,777; Feb. 6.
Hot top. W. M. Charman. 1,945,880; Feb. 6.
Hydraulic brake. A. P. Brush. 1,945,728; Feb. 6.
Hydraulic four-way valve. P. Fahrenkamp. 1,945,680; Feb. 6.
Hydraulic setting tool. L. A. Layne. 1,945,943; Feb. 6.
Hydrocarbons, Production of. F. Winkler and H. Haeuber. 1,945,960; Feb. 6.
Igniter for coal furnaces. A. Shearman. 1,945,708; Feb. 6.
Ignition circuit and other lock. V. L. Gilpin. 1,945,527; Feb. 6.
Illuminating apparatus. P. S. Strang. 1,945,832; Feb. 6.
Impurities from liquids, Separation of finely divided. R. Wietzel and B. Engel. 1,945,583; Feb. 6.
Indicating system. C. E. Stewart. 1,945,666; Feb. 6.
Indicator: *See*—
Direction indicator. Water indicator.
Liquid level indicator.
Indicator for electrical heating appliances. E. Tomsche. 1,946,246; Feb. 6.
Inking roller. F. Lamatsch. 1,946,024; Feb. 6.
Installation for re-cooling the cooling air in circulating air cooling installations. H. Ortmeyer. 1,945,619; Feb. 6.
Instrument for determining atmospheric conditions. M. Scott. 1,945,660; Feb. 6.
Insulation for electrical sheets, Inorganic. G. C. Kiefer and C. A. Scharschu. 1,946,146; Feb. 6.
Insulation of leads to electrical condensers. G. Scarpa. 1,945,917; Feb. 6.
Intercone mill. H. H. Runnel. 1,945,791; Feb. 6.
Interlocking oil switch, Remote control. L. W. Guin. 1,945,775; Feb. 6.
Internal-combustion engine. J. Braunwalder. 1,945,727; Feb. 6.
Internal-combustion engine. F. S. Farley. 1,946,136; Feb. 6.
Internal combustion engine. H. B. Greening and J. W. Galloway. 1,945,636; Feb. 6.
Internal combustion engine. H. L. McPherson and J. H. Weatherford. 1,945,818; Feb. 6.
Iron pyrites, Treatment of. S. I. Levy. 1,946,325; Feb. 6.
Jack: *See*—
Lifting jack. Scaffold jack.
Pump jack.
Jack and bumpers, Combined. A. C. Hoecker. Des. 91,462; Feb. 6.
Jack with traveling pawl mechanism, Lifting. L. D. Nilson. 1,945,910; Feb. 6.
Joint: *See*—
Fuselage joint. Universal pipe joint.
Ketones and making same, Amino-aromatic. E. C. Britton and F. Bryner. 1,946,058; Feb. 6.
Key-permutation lock. B. C. Smith. 1,946,364; Feb. 6.
Kilns, Controlling operation of cement. C. W. Martin. 1,945,652; Feb. 6.
Knife grinding mechanism. J. A. Comeau. 1,946,311; Feb. 6.
Knitting machine. A. Gagne 1,945,971; Feb. 6.

Ladder for tanks, Rolling. A. A. Kramer. 1,945,531; Feb. 6.
Lamp: *See*—
Electric lamp.
Lamp. L. Guild. Des. 91,460–1; Feb. 6.
Lamp assembly means. H. A. Douglas. 1,946,197; Feb. 6.
Latex, Treatment of. R. L. Sibley. 1,946,003; Feb. 6.
Lathe, Automatic. E. R. Smith and A. Shinkez. 1,946,429; Feb. 6.
Lathe for shoe-lasts and the like, Copying. E. J. Winkle. 1,946,253; Feb. 6.
Lathe headstock. L. C. Cole. 1,945,598; Feb. 6.
Lathe, Multiple spindle. E. R. Smith and J. L. Peterson. 1,945,663; Feb. 6.
Lens system. P. Rudolph. 1,945,570; Feb. 6.
Lens system for motion picture projection, Condensing. J. A. Maurer, jr. 1,946,088; Feb. 6.
Lifter: *See*—
Fruit jar lifter.
Lifting jack. F. H. Schwerin. 1,946,242; Feb. 6.
Light: *See*—
Flashlight. Vehicle light.
Light color instrument. M. H. Greenewalt. 1,945,635; Feb. 6.
Light control for automotive vehicles, Parking. A. G. McCaleb. 1,946,226; Feb. 6.
Light in color photography, Lowering the consumption of H. Bertling. 1,945,768; Feb. 6.
Light luminaire, Ultra-violet. T. W. Rolph. 1,945,567; Feb. 6.
Lighter and ejector, Automatic cigarette. W. A. Lloyd. 1,946,406; Feb. 6.
Lighter, Cigar. J. H. Cohen. 1,945,597; Feb. 6.
Lighter, Electric cigar. H. Bach. 1,946,434; Feb. 6.
Lighting system for automotive vehicles. H. H. Gordon. 1,945,528; Feb. 6.
Liner block for tubular fluid-cooled walls. J. S. Bennett. 1,946,125; Feb. 6.
Liquid dispensing device. W. H. Bonney. 1,945,725; Feb. 6.
Liquid heater. H. R. Oliver. 1,946,031; Feb. 6.
Liquid level indicator. C. A. de Giers. 1,945,736; Feb. 6.
Loading and unloading mechanism for machine tools. E. R. Smith. 1,945,662; Feb. 6.
Lobelia alkaloids, their derivatives, and allied compounds, Preparing. H. Wieland. 1,946,345; Feb. 6.
Lock: *See*—
Combination lock. Key-permutation lock.
Electric lock. Plaster lock.
Fifth wheel lock.
Ignition circuit and other lock.
Lock. E. N. Jacobi. 1,945,779; Feb. 6.
Lock switch. H. E. Norviel. 1,945,562; Feb. 6.
Locomotive mud ring. E. A. Turner and C. J. Surdykowski. 1,946,045; Feb. 6.
Loom, Tuft pile fabric. J. O. Lambo. 1,946,427; Feb. 6.
Lubricant, Die. R. T. Wood. 1,946,121; Feb. 6.
Lubricated valve. F. E. Riley. 1,946,236; Feb. 6.
Lubricating device. J. L. Creveling. 1,946,064; Feb. 6.
Lubricating device. A. Y. Dodge. 1,946,065; Feb. 6.
Lubricating fixture. E. J. Bloom. 1,945,513; Feb. 6.
Lubricating means. J. C. Friend. 1,946,316; Feb. 6.
Lubricating means. O. U. Zerk. 1,945,845; Feb. 6.
Lubricating system, Automatic. W. A. Chryst. 1,945,596; Feb. 6.
Lubrication. J. Bijur. 1,945,512; Feb. 6.
Lubrication. P. H. Staaff. 1,946,366; Feb. 6.
Lubrication device. A. Y. Dodge. 1,946,063; Feb. 6.
Lubrication system. A. Wichn. 1,946,344; Feb. 6.
Lubricator: *See*—
Rail lubricator.
Lubricator attachment. E. H. and J. C. Morrow. 1,945,699; Feb. 6.
Lubricator for suction and pressure lubrication, Siphon. H. Kreidel. 1,945,554; Feb. 6.
Machine control, Dynamo-electric. H. V. Brown. 1,946,303; Feb. 6.
Machine for cleaning fresh fruit and the like. L. E. Jones. 1,946,021; Feb. 6.
Machine for cutting printed wrappers. R. B. Donnelley and J. F. Hawley. 1,946,457; Feb. 6.
Machine for finishing bolts and screws. H. D. Simkins and O. P. De Loe. 1,946,243; Feb. 6.
Machine for making dough from cereals or the like. M. Schaul. 1,946,001; Feb. 6.
Machine for making longitudinally curved reenforced shank stiffeners. W. H. Nickerson. 1,945,618; Feb. 6.
Machine for producing or reproducing designs and other forms. W. Wilkins and E. J. Vandy. 1,945,928; Feb. 6.
Machine for separating cotton from air. J. E. Mitchell. 1,945,820; Feb. 6.
Machine for winding quick-traverse bobbins, especially for artificial silk. E. Schweizer. 1,945,659; Feb. 6.
Machine rest. H. Alpern. 1,945,765; Feb. 6.
Magnesium base dye casting alloys. L. B. and O. E. Grant. 1,946,069; Feb. 6.
Mailing sheet. A. Watson. 1,945,927; Feb. 6.
Manifold. E. M. Beebe. 1,945,724; Feb. 6.
Map display and cabinet. A. M. Wiswell. 1,945,961; Feb. 6.
Marker, Grave. H. F. Potter. 1,946,033; Feb. 6.
Mask, Life saving. M. F. Seijo. 1,945,919; Feb. 6.
Material for the treatment of hides and skins, Producing. E. Lenk and F. Lippner. 1,946,218; Feb. 6.
Measuring and dispensing device, Automatic. M. Ferrandino. 1,945,849; Feb. 6.
Metal articles, Pneumatic method and apparatus for forming. T. M. Hiester. 1,946,211; Feb. 6.
Metal blank, Rolling discus. T. W. Hand.. 1,946,070; Feb. 6.
Metal working and article produced thereby. F. R. Bonte. 1,945,877; Feb. 6.
Metallurgical furnace. H. O. Breaker. 1,946,270; Feb. 6.
Meter: *See*—
Electric meter. Time meter.
Meter hanger. H. G. Weymouth. 1,946,342; Feb. 6.
Methyl amine from dimethyl ether, Production of. L. C. Swallen. 1,946,245; Feb. 6.
Mill: *See*—
Intercone mill.
Mill catcher, Hot. G. Hartill, sr. 1,945,896; Feb. 6.
Milling cutter. P. P-G. Hall. 1,945,854; Feb. 6.
Mine roof support. E. Ramsay. 1,946,034; Feb. 6.
Mixing apparatus. A. G. Reed. 1,945,868; Feb. 6.
Mixing valve, Hot and cold water. D. F. and J. E. Kumpman. 1,945,645–6; Feb. 6.
Modulation system. R. D. Duncan, jr. 1,945,630; Feb. 6.
Molasses feed, Manufacturing. A. H. Schmidt. 1,945,918; Feb. 6.
Molding, Electrical outlet. M. Cohen. 1,945,731; Feb. 6.
Motor: *See*—
Multiple speed motor.
Synchronous induction-motor.
Motor. R. A. Coffman. 1,946,309; Feb. 6.
Motor controller. C. Stansbury. 1,945,830 Feb. 6.
Motor vehicle brake. E. R. Evans. 1,946,135; Feb. 6.
Mounting, Focusing lens. J. C. Sabel. 1,945,999; Feb. 6.
Mounting, Ophthalmic. N. M. Baker. 1,946,346; Feb. 6.
Mounting, Ophthalmic. J. N. Nelson. 1,945,617; Feb. 6.
Mower, Self-sharpening lawn. W. B. White. 1,945,582; Feb. 6.
Multiple speed motor. M. Lilienthal and L. Michaelis. 1,946,289; Feb. 6.
Necktie. T. L. Lang. 1,946,405; Feb. 6.
Nitroglycerine and residuary acid, Continuous separation of. A. Schmid. 1,946,415; Feb. 6.
Nitroglycerine from residual acids, Separating. A. Schmid. 1,946,414; Feb. 6.
Nitrous oxide, Production of. L. Schlecht and A. von Nagel. 1,946,114; Feb. 6.
Oil conversion, Hydrocarbon. D. F. Gerstenberger. 1,945,604; Feb. 6.
Oil, Cracking mineral. A. E. Pew, jr. 1,946,329; Feb. 6.
Oil, Dressing, sizing, and softening. B. Rewald. 1,946,332; Feb. 6.
Oil injector, Lubricated. C. C. Christ. 1,945,678; Feb. 6.
Oil, Lubricating. B. H. Lincoln. 1,945,614; Feb. 6.
Oil, Lubricating. B. H. Lincoln and A. Henriksen. 1,945,615; Feb. 6.
Oil refining. J. S. Wallis. 1,945,581; Feb. 6.
Oil well apparatus. W. W. Bryant. 1,946,304; Feb. 6.
Oils, Process and apparatus for converting. C. P. Dubbs. 1,946,463; Feb. 6.
Oils, Processing hydrocarbon. J. C. Black. 1,945,508; Feb. 6.
Oils, Refining hydrocarbon. J. A. Buchel and R. N. Jan Saal. 1,945,516; Feb. 6.
Oils, Treatment of hydrocarbon. R. F. Davis. 1,946,131; Feb. 6.
Oils, Treatment of hydrocarbon. J. C. Morrell. 1,946,096; Feb. 6.
Oils, Treatment of hydrocarbon. J. C. Morrell and G. Egloff. 1,946,094–5; Feb. 6.
Opening movement of window sashes, Device for limiting. C. F. England. 1,945,848; Feb. 6.
Ophthalmological instrument. C. L. Hunsicker. 1,945,940; Feb. 6.
Ore concentrating unit. C. Livingood. 1,946 219; Feb. 6.
Ores, Treating sulphide. R. G. Brown. 1,946,349; Feb. 6.
Ores, Treating vanadium. C. Knight and A. M. Wilson. 1,945,611; Feb. 6.
Orifice for measuring the flow of fluids, Variable. J. L. Hodgson and H. E. Dall. 1,946,319; Feb. 6.
Oscillation generation. G. E. Pray. 1,945,547; Feb. 6.
Oscillator. C. W. Hansell. 1,945,546; Feb. 6.
Oscillatory apparatus for electrotherapeutic and sterilization purposes. High frequency. P. C. Rawls. 1,945,867; Feb. 6.
Outlet for electrical conduits and applying the same. H. J. Robertson, jr. 1,946,237; Feb. 6.
Package. F. J. Clancy. 1,946,191; Feb. 6.
Package and container therefor. A. J. Judge. 1,946,285; Feb. 6.
Pad: *See*—
Buffer pad. Vibratory pad.
Package, Shipping. R. J. Breton. 1,945,878; Feb. 6.
Packing, Piston. J. F. Foehr. 1,945 524; Feb. 6.
Paint or lacquer for food containers, Protective. A. Williams. 1,945,584; Feb. 6.
Panel and fabrication, Laminated. H. J. Woodall. 1,945,717; Feb. 6.
Panels, Gluing laminated. G. R. Meyercord. 1,945,560; Feb. 6.
Paper. A. D. Williams. Des. 91,476; Feb. 6.

Paper and method of producing, Tracing. H. M. Spurlin. 1,946 338; Feb. 6.
Paper and producing same, Coated. C. L. Gabriel. 1,946,203–5; Feb. 6.
Paper cones, Method of and machine for manufacturing. C. K. Dunlap. 1,946,198; Feb. 6.
Paper-cutting machine. W. M. Reichart. 1,945,703; Feb. 6.
Paper folding machine. S. L. Sharpless. 1,945,756; Feb. 6.
Paper-handling machine. R. Hitchcock. 1,946,142–3; Feb 6.
Paper pulp, Manufacture of. A. G. MacIntyre. 1,945,862; Feb. 6.
Paper, Wrapping. W. W. Herrick. 1,946,141; Feb. 6.
Parachute. J. Eschner. 1,946,066; Feb. 6.
Parasiticide and making the same. M. L. Tower and H. W. Dye. 1,945,542; Feb. 6.
Parcel rack. L. P. Warder and H. P. Manley. 1,946,374; Feb. 6.
Partition construction, Metallic. J. A. Bohnsack and T. V. Balch. 1,946,268; Feb. 6.
Pavement crack clearing device. H. F. Holtz. 1,945,810; Feb. 6.
Peach. O. P. Blackburn. Pl. Pt. 86; Feb. 6.
Pectin preparation. W. E. Baier and R. E. Harris. 1,945,968; Feb. 6.
Pencil, Mechanical. A. N. Lungren. 1,946,085; Feb. 6.
Phonograph recording machine. R. F. Mallina. 1,945,558; Feb. 6.
Phosphate compounds, Producing water-soluble. E. Roubke. 1,945,914; Feb. 6.
Photographs in series, Device for taking. S. Kucharski. 1,946,323; Feb. 6.
Picture hanger. A. O. Haukedahl. 1,945,897; Feb. 6.
Picture projector, Duplex motion. G. A. Mitchell. 1,945,863; Feb. 6.
Picture, Sound motion. A. N. Goldsmith. 1,946,206; Feb. 6.
Pictures, Method of and apparatus for producing motion. W. N. Aubuchon, jr. 1,945,721–2; Feb. 6.
Pictures, Method of and apparatus for producing motion. L. H. Tolhurst. 1,945,926; Feb. 6.
Pictures, Preparing colored photographic. L. J. Dassonville. 1,945,772; Feb. 6.
Pictures Production of colored photographic. G. Roessler. 1,945,658; Feb. 6.
Pigment. J. T. Baldwin. 1,946,053; Feb. 6.
Pigment. J. T. Baldwin. 1,946,055; Feb. 6.
Pigment composition. C. J. Harbert. 1,945,809; Feb. 6.
Pigments by wet-precipitation, Manufacture of. W. C. Hooey and E. J. Flynn. 1,945,551; Feb. 6.
Pigments, Manufacture of. J. T. Baldwin. 1,946,052; Feb. 6.
Pigments, Preparing. J. T. Baldwin. 1,946,054; Feb. 6.
Pilferproof box. J. P. H. Leavitt. 1,945,613; Feb. 6.
Pillow block. M. S. Vile. 1,946,431; Feb. 6.
Piston. A. L. Nelson. 1,945,994; Feb. 6.
Piston, Light metal. E. Koch. 1,946,081; Feb. 6.
Piston ring. M. H. Winstead. 1,945,763; Feb. 6.
Piston, Ringless. W. E. and B. L. Bassett.. 1,945,674; Feb. 6.
Pistons with stepped windings for use in connection with rotary piston engines, Making rotary. E. Mocigemba. 1,946,410; Feb. 6.
Plaster lock. J. M. G. Fullman. 1,945,683; Feb. 6.
Plate glass polishing block. R. A. Miller. 1,946,355; Feb. 6.
Plate-locking mechanism. H. A. W. Wood. 1,945,671; Feb. 6.
Plate or similar article. A. Eckert. Des. 91,455; Feb. 6.
Plow, Reversible gang. A. Birrer. 1,945,930; Feb. 6.
Plumbing installation. G. W. Haire. 1,946,207; Feb. 6.
Polyhalite, Treating. H. Friedrich. 1,946,068; Feb. 6.
Porous material with solid substances, Impregnating. A. Winogradow. 1,945,714; Feb. 6.
Positioning means for drilling machines. J. W. Brown, jr. 1,946,421; Feb. 6.
Post: *See*—
Binding post.
Potato chip cutter. J. C. Curdie. 1,946,193; Feb. 6.
Potato peeling machine. F. J. and F. J. Palombo, jr. 1,945,978; Feb. 6.
Power plant apparatus. C. P. Wetherbee and J. E. Burkhardt. 1,946,249; Feb. 6.
Power transmission. H. Rosenthal. 1,946,293–4; Feb. 6.
Power transmission means, Automatic. F. Slavek. 1,946,179; Feb. 6.
Precoating in filtration. E. Staritsky. 1,946,039; Feb. 6.
Preforming head, Adjustable. R. Blamire. 1,945,799; Feb. 6.
Preparations suitable for purifying air and liberating oxygen, Production of. E. Herzog. 1,946,460; Feb. 6.
Preservative. E. C. Britton and L. E. Mills. 1,946,057; Feb. 6.
Press: *See*—
Automatic power press. Broaching press.
Beehive press. Printing press.
Printing instrument. J. M. Christman. 1,945,730; Feb. 6.
Printing machine. G. C. Krans. 1,946,217; Feb. 6.
Printing machine for linoleum, textiles, and the like. L. B. Case. 1,945,593; Feb. 6.
Printing press. H. Fankboner. 1,945,631; Feb. 6.
Printing process and apparatus. G. S. Rowell. 1,945,569; Feb. 6.
Printing surfaces, Producing. H. C. Boedicker. 1,945,676; Feb. 6.
Projecting machine, Double. A. D. Eitzen. 1,945,522; Feb. 6.
Projector for double dissolving effects. T. O. Hall. 1,946,139; Feb. 6.
Propeller. J. M. Forshee. 1,945,633; Feb. 6.
Propeller blade for aircraft, Noiseless. J. Cebulski. 1,946,129; Feb. 6.
Protecting device. H. E. Norviel. 1,945,561; Feb. 6.
Protective device for windows. E. A. Callender. 1,945,729; Feb. 6.
Protective means for coin controlled apparatus. L. H. Morin. 1,945,948; Feb. 6.
Protective system for synchronous motors. B. Keller. 1,945,610; Feb. 6.
Protector: *See*—
Canvas belt slat protector.
Protein solution and new protein derivative and making same. C. Graenacher. 1,946,159; Feb. 6.
Pull for slide fasteners. A. E. Carlisle. Des. 91,458; Feb. 6.
Pulp articles, Producing molded. M. P. Chaplin. 1,946,437; Feb. 6.
Pump: *See*—
Centrifugal pump. Gate type rotary pump.
Deep well pump. Rotary gas pump.
Pump. A. J. Kovach. 1,946,166; Feb. 6.
Pump and vending machine, Combined filling station. C. Walker. 1,946,372; Feb. 6.
Pump for lubrication purposes, Hand-operated suction and pressure. H. Kreidel. 1,945,555; Feb. 6.
Pump head and lubricating system therefor, Deep well turbine. R. E. Swanson. 1,945,883; Feb. 6.
Pump impeller, Rotary. B. S. Carr. 1,946,273; Feb. 6.
Pump jack. B. G. Goble. 1,945,774; Feb. 6.
Punching machine. C. L. Werk, jr. 1,945,794; Feb. 6.
Pushing and pulling implement. G. A. Countryman. 1,946,352; Feb. 6.
Pyrotechnical articles and the like, Process and apparatus for charging. W. G. Thrasher. 1,946,042; Feb. 6.
Rack: *See*—
Display rack. Stock rack.
Parcel rack.
Rack for trucks, Detachable. J. T. Earle. 1,945,969; Feb. 6.
Radiator, Electric steam. J. D. Landerman. 1,945,815; Feb. 6.
Radiator reflector cap, Automobile. A. T. Mosberg. 1,946,230; Feb. 6.
Radiator, Sheet metal. T. E. McGrail. 1,946,227; Feb. 6.
Radiator shell. H. Hueber and E. C. Horton. 1,946,074; Feb. 6.
Radio broadcasting system, Wired. R. D. Duncan, jr. 1,945,629; Feb. 6.
Radio cabinet. J. L. Raffetto. Des. 91,469; Feb. 6.
Radiocommunication, Apparatus for. H. Chireix. 1,946,308; Feb. 6.
Radio range finder. A. M. Nicolson. 1,945,952; Feb. 6.
Radio receiving apparatus. C. M. Wilcox. 1,945,795; Feb. 6.
Radio receiving circuit. M. M. Phillips. 1,946,107; Feb. 6.
Radio tube tester. J. C. Daley. 1,945,802; Feb. 6.
Rail lubricator. H. B. Bates. 1,946,123; Feb. 6.
Railroad crossing structure. H. E. White and T. E. McLaughlin. 1,946,448; Feb. 6.
Rake. A. R. Johnson. 1,945,552; Feb. 6.
Reactions, Method of and apparatus for propagating. S. T. Wiles. 1,946,252; Feb. 6.
Readings on circular charts, Apparatus for obtaining an average of. E. R. Burgher. 1,946,012; Feb. 6.
Record control for recording machines. R. H. Wood. 1,945,716; Feb. 6.
Recorder: *See*—
Shoe-shine recorder.
Rectifier tube. O. T. McIlvaine. 1,946,354; Feb. 6.
Reed moving mechanism. G. J. Dupuis. 1,946,394; Feb. 6.
Reel: *See*—
Extension cord reel.
Reel clamp. O. M. Davis. 1,946,455; Feb. 6.
Reels of paper in printing and other machines, Carrying. J. Shaw. 1,945,621; Feb. 6.
Reflector and application to optical signaling and night advertising, Autocollimating. H. Chrétien. Re19,070; Feb. 6.
Refrigerating apparatus. J. R. Fehr. 1,946,464; Feb. 6.
Refrigerating apparatus. C. W. Steiner. 1,945,924; Feb. 6.
Refrigeration. C. G. Munters. 1,945,975; Feb. 6.
Refrigeration apparatus. W. G. Midnight. 1,946,029; Feb. 6.
Refrigerator for frosen foods. C. H. Herter. 1,945,667; Feb. 6.
Register and grille. J. A. Germonprez. 1,945,972; Feb. 6.
Regulator: *See*—
Draft regulator. Window regulator.
Regulator and release valve. W. T. Birch. 1,946,188; Feb. 6.
Remote control apparatus. C. W. Bell. 1,946,187; Feb. 6.
Remote control apparatus. F. P. Bercot. 1,945,511; Feb. 6.
Remote control apparatus. R. G. Thompson. 1,945,887; Feb. 6.
Remote controlling apparatus. C. W. Bell. 1,946,186; Feb. 6.
Reproducing device. J. H. Smoot. 1,945,710; Feb. 6.
Resin and making same, Synthetic. F. A. Apgar and A. Runyan. 1,945,719; Feb. 6.

Resin, Producing synthetic. F. S. Granger. 1,946,459; Feb. 6.
Respirator. N. Schwartz. 1,946,334; Feb. 6.
Resynchronizing system for master and secondary controllers. C. H. Bissell. 1,946,436; Feb. 6.
Ribbon and the like, Typewriter. H. L. Shallcross. 1,946,363; Feb. 6.
Ring: *See*—
Locomotive mud ring. Piston ring.
Rivet setting machine. J. Gobin, dit Dandè. 1,945,892; Feb. 6.
Roadbuilder's equipment. F. B. Hurt. 1,946,461; Feb. 6.
Road working machine. J. E. Carlson. 1,945,518; Feb. 6.
Rocking and reclining chair, Collapsible. E. Turnal. 1,945,580; Feb. 6.
Rod handling. C. F. Hood. 1,945,898; Feb. 6.
Roll support shifting device. H. A. W. Wood. 1,945,670; Feb. 6.
Roller: *See*—
Inking roller.
Roller bit. G. E. Behnke. 1,945,964; Feb. 6.
Rollers, Apparatus and method of finishing. K. L. Herrmann. 1,946,440; Feb. 6.
Rollers, Mechanism and method of finishing. K. L. Herrmann. 1,946,441; Feb. 6.
Rope take-up, Traverse. F. B. Peebles. 1,945,754; Feb. 6.
Rotary gas pump. J. Sim. 1,945,759; Feb. 6.
Rotary machine. F. J. Young. 1,945,876; Feb. 6.
Rotor wheel. A. Huguenin. 1,945,900; Feb. 6.
Rubber mixtures, Production of. B. Rewald. 1,946,333; Feb. 6.
Rubber product, Age-resisting vulcanized. R. L. Sibley. 1,946,002; Feb. 6.
Rubber, Treatment of. W. P. ter Horst. 1,945,576–8; Feb. 6.
Safe. C. F. Meilink. 1,946,028; Feb. 6.
Safety attachment for typesetting machines. D. P. McLaughlin. 1,946,091; Feb. 6.
Sales and billing machine. W. I. Nicholson, jr. 1,945,655; Feb. 6.
Sanitary napkin. R. W. Johnson. 1,946,425; Feb. 6.
Sash construction. A. MacKenzie. 1,946,169; Feb. 6.
Sausage and packaging same, Skinless and casingless. C. H. Vogt. 1,945,669; Feb. 6.
Sawing mechanism and method of use, Portable. C. B. Christiansen. 1,946,390; Feb. 6.
Saws, Method and apparatus for setting. A. H. Kennedy. 1,946,426; Feb. 6.
Scaffold jack. E. B. Snead. 1,945,828; Feb. 6.
Screen: *See*—
Burglar proof screen. Half-tone screen.
Screen holder. A. Sandbrook. 1,945,572; Feb. 6.
Screw driver W. E. Gray. 1,945,741; Feb. 6.
Screw holder device. W. J. Sofield. 1,945,829; Feb. 6.
Seal. M. B. Behrman. 1,945,965; Feb. 6.
Seal. W. M. Brooks. 1,945,677; Feb. 6.
Seal, Shaft. A. C. Saxe. 1,945,825; Feb. 6.
Seal, Window pane. H. C. Ennis. 1,946,017; Feb. 6.
Sealing machine. A. Podel. 1,945,954; Feb. 6.
Sealing off, Method of. J. D. Brumley. 1,945,769; Feb. 6.
Seam welder. E. J. W. Ragsdale and J. C. Whitesell, jr. 1,946,445; Feb. 6.
Seat: *See*—
Child's seat.
Separator: *See*—
Cream separator.
Separator tank for oil field emulsions, Heated. W. G. McMurray. 1,946,229; Feb. 6.
Sewing machines, Fabric guiding means for. A. S. Riviere. 1,946,359; Feb. 6.
Sewing machines, Ring-binding attachment for. R. J. Sailer. 1,946,241; Feb. 6.
Shackle. R. H. Chilton. 1,945,595; Feb. 6.
Shade, Lamp. E. Schwarz. Des. 91,471; Feb. 6.
Sheet handling mechanism. G. C. Kimball. 1,945,905; Feb. 6.
Sheet material, Fabrication of thermo-plastic. P. R. Zinser. 1,945,718; Feb. 6.
Sheet or strip feeding mechanism. E. W. Mikaelson. 1,946,170; Feb. 6.
Sheets, Manufacture of metal coated. W. O. Cook, O. O. Miller, and J. C. Whetzel. 1,945,884; Feb. 6.
Shelving construction. J. E. Bales. 1,945,507; Feb. 6.
Shield for agricultural implements. J. M. and S. Bowman. 1,945,514; Feb. 6.
Shield, Frost. W. P. Hilger. 1,945,742; Feb. 6.
Shirt. J. E. Hay. 1,946,401; Feb. 6.
Shock absorber. W. W. Riedel. 1,945,566; Feb. 6.
Shock absorber. E. F. Rossman and F. D. Funston. 1,945,568; Feb. 6.
Shoe and foot normalizer. H. G. Hall. 1,946,317; Feb. 6.
Shoe-shine recorder. E. D. Fagelson. 1,946,395; Feb. 6.
Shoes for golf and other sports, Attachment for. E. D. Fagelson. 1,946,396; Feb. 6.
Sign: *See*—
Wind operated sign.
Sign and indicator. N. B. Bryant. 1,946,385; Feb. 6.
Signal: *See*—
Traffic signal.
Signaling. H. Chireix. 1,946,274; Feb. 6.
Signaling device for typewriters. J. Y. Payton. 1,945,753; Feb. 6.
Signaling system. M. B. Long. 1,945,557; Feb. 6.
Silica and products thereof, Producing reactions with. E. W. Rembert. 1,945,534; Feb. 6.
Silver polishing machine. D. Mascareño. 1,945,908; Feb. 6.
Skidding arch. W. H. Nourse and P. A. Wickes. 1,945,976; Feb. 6.
Sleigh. O. Frederickson. 1,946,018; Feb. 6.
Smoke rings, Device for producing. E. Gosliner. 1,945,852; Feb. 6.
Sodium sulphide and making same, Anhydrous. H. H. Mayers. 1,946,089; Feb. 6.
Solar heater. C. G. Abbott. 1,946,184; Feb. 6.
Sole-affixing machine. A. J. Weiss. 1,945,762; Feb. 6.
Sole structure, Calked. D. W. Wiggin. 1,945,840; Feb. 6.
Soot, Purifying. G. Kröner and P. Dilthey. 1,945,907; Feb. 6.
Sound from sound film records, Reproduction of. H. Könemann. 1,946,404; Feb. 6.
Sound recording. Z. J. Kegl. 1,946,215; Feb. 6.
Sound wave producing device. M. Morrison. 1,946,098; Feb. 6.
Spark plug—flash ignition type. W. J. Stepehenson. 1,945,870; Feb. 6.
Speed transmission, Variable. W. C. Pitter. 1,945,702; Feb. 6.
Spool box. P. de Castro-Barberena. 1,946,276; Feb. 6.
Spray device. W. E. Pearl. 1,945,701; Feb. 6.
Spring: *See*—
Vehicle spring.
Spring. P. O. F. Vorwerk. 1,946,340; Feb. 6.
Spring cover. J. M. Christman. 1,946,391; Feb. 6.
Stabilizer, Gyroscopic vehicle steering. I. A. Weaver. 1,945,874; Feb. 6.
Stalk shredding implement. F. T. Court. 1,945,733; Feb. 6.
Stamp vending machine. C. Walker. 1,946,371; Feb. 6.
Stand and light, Telephone. C. B. Rowell. 1,945,956; Feb. 6.
Stand and tray, Book. W. J. Boyle. 1,945,931; Feb. 6.
Steam, Device for securing dry. A. C. Weigel. 1,946,248; Feb. 6.
Steam heating system. I. C. Jennings. 1,945,641; Feb. 6.
Steel, Method of and mechanism for forming hardened. R. C. Angell. 1,945,510; Feb. 6.
Steel strip, Hot rolling. W. Rohn. 1,946,240; Feb. 6.
Stem parts from a tobacco mass, Device for separating. E. R. Dahlstrom and C. G. B. Rothelius. 1,945,771; Feb. 6.
Sterilizing apparatus. A. A. Robey. 1,946,362; Feb. 6.
Stiffener for footwear and preparing the same. D. B. Macdonald. 1,945,650; Feb. 6.
Stock rack. G. B. Samuels. 1,946,000; Feb. 6.
Stoker. W. C. Peyton. 1,945,787; Feb. 6.
Stoker. E. A. Turner. 1,946,046; Feb. 6.
Stoker, Locomotive. E. A. Turner. 1,946,044; Feb. 6.
Stop and change-over for moving-picture projectors, Automatic. H. H. Fenner and R. E. Silvis. 1,945,682; Feb. 6.
Stop mechanism for knitting machines. J. Wachsman. Re19,069; Feb. 6.
Stopper for gas mains, Automatic. W. W. Gardner. 1,946,138; Feb. 6.
Store front. D. J. O'Connell, N. J. Schlossman, J. Demuth, and J. Loebl. Des. 91,468; Feb. 6.
Stove top, back-guard member, lighting unit, and shade, Combined. L. Stephen. Des. 91,464; Feb. 6;
Strainer for pumps, Sand. A. C. Saxe. 1,945,824; Feb. 6.
Strainer, Milk. C. L. Turner. 1,945,668; Feb. 6.
Stripe painting machine. E. F. Woods. 1,946,260; Feb. 6.
Strooper, Blade. A. D. Boulanger and F. P. Hubrich. 1,946,350; Feb. 6.
Submerged structures, Mechanism for building. C. B. Christiansen. 1,946,389; Feb. 6.
Submersible bearing. J. M. Hait. 1,945,776; Feb. 6.
Superheat from compressed gas to be condensed in a surface condenser, Apparatus for removing. J. Neff. 1,946,328; Feb. 6.
Superheater, Radiant heat. D. S. Jacobus and J. E. Black. 1,945,548; Feb. 6.
Supervisory system. C. E. Stewart. 1,945,667; Feb. 6.
Support: *See*—
Arch support. Display support.
Brake shaft support. Mine roof support.
Support for concrete dividers. J. M. Myer. 1,945,784; Feb. 6.
Support for concrete reenforcing steel. E. E. Welch. 1,946,418; Feb. 6.
Supporting frame, Glider. M. B. Smith. Des. 91,472; Feb. 6.
Surface plate. E. H. Aldeborgh. 1,946,432; Feb. 6.
Switch: *See*—
Electric switch. Lock switch.
High tension switch. Thermostatic switch.
Switch mechanism. V. G. Apple. 1,945,720; Feb. 6
Switch of the enclosed type, Electric. R. A. Millermaster. 1,945,819; Feb. 6.
Switch of the tumbler type, Electrical. J. A. Crabtree. 1,946,192; Feb. 6.
Switch with contacts surrounded by a medium under pressure. S. Rump and H. Thommen. 1,945,916; Feb. 6.
Switching device, Electromagnetic. F. A. Zupa. 1,946,261; Feb. 6.
Swivel, Rotary. R. L. Day. 1,946,456; Feb. 6.
Synchronous frequency detection system. L. W. Kolomy. 1,945,814; Feb. 6.
Synchronous induction-motor. R. Barthelemy. 1,945,723; Feb. 6.
Tamping apparatus. W. Gilmore. 1,946,019; Feb. 6.

Tank bulb, Float. N. Becker. 1,946,266–7; Feb. 6.
Tank ejector, Fuel. C. E. Bazley. 1,946,185; Feb. 6.
Tape measure. E. J. Witchger. 1,945,842; Feb. 6.
Taped paper board. J. Wagner. 1,945,624; Feb. 6.
Telephone system. J. B. McKim. 1,946,228; Feb. 6.
Telescopic sight. K. Jung. 1,946,213; Feb. 6.
Teletypewriter selector system. F. S. Kinkead. 1,946,216; Feb. 6.
Television receiver. W. J. Herdman. 1,945,607; Feb. 6.
Television system. J. L. Baird. 1,945,626; Feb. 6.
Television system and apparatus. D. S. de Amicis. 1,945,968; Feb. 6.
Temperature measuring device. C. E. Foster. 1,946,155; Feb. 6.
Templet for facilitating the drawing of geometrical patterns. J. McKenna. Des. 91,466; Feb. 6.
Tension controlling device. W. A. Baer. 1,946,264; Feb. 6.
Tensioning device. L. C. Daniels. 1,946,313; Feb. 6.
Terminal box. E. Baguley. 1,946,265; Feb. 6.
Test checking apparatus. J. E. Roberts. 1,946,361; Feb. 6.
Testing apparatus. O. D. Du Bois. 1,946,133; Feb. 6.
Textile fabric or similar article. W. Willheim. Des. 91,475; Feb. 6.
Thermostat. L. Satchwell. 1,945,706; Feb. 6.
Thermostat alarm for bearings. R. F. Bethea. 1,946,352; Feb. 6.
Thermostat controlling temperature for central heating systems. P. M. Jauvert. 1,945,745; Feb. 6.
Thermostatic switch. W. B. Griffith. 1,945,808; Feb. 6.
3-Menthone, Producing. W. Schoeller, E. Schwenk, and E. Borgwardt. 1,946,115; Feb. 6.
Tie structure, Metallic. W. Stiefel. 1,945,925; Feb. 6.
Tile building construction. W. H. Smith. 1,946,180; Feb. 6.
Tile, Truss. A. H. Farrens. 1,945,681; Feb. 6.
Time meter. C. Battegay. 1,945,990; Feb. 6.
Timer. L. J. Armstrong. 1,946,380; Feb. 6.
Timer, Short interval. H. W. Lord. 1,946,290; Feb. 6.
Tire cover. G. A. Lyon. 1,946,168; Feb. 6.
Tire cover. G. A. Lyon. 1,946,326; Feb. 6.
Tire gauge. L. Mastrangel. 1,946,224; Feb. 6.
Tire tread construction, Automobile rubber. H. R. Straight. 1,946,367; Feb. 6.
Tire tread splitting apparatus. G. F. Connelly. 1,945,883; Feb. 6.
Tool: *See*—
Broaching tool. Hydraulic setting tool.
Electrician's tool.
Tool and hydraulic feed mechanism therefor, Machine. R. E. Flanders. 1,945,632; Feb. 6.
Toothbrush. R. M. Hoffman and C. F. Northart. 1,946,283; Feb. 6.
Toothbrush. E. M. McNally. 1,945,559; Feb. 6.
Torch, Quick generating. W. Blaskewitz and C. B. Overly. 1,946,383; Feb. 6.
Torch, Welding. J. T. Catlett. 1,946,306; Feb. 6.
Traction tread. W. E. Hardeman and E. S. Tompkins. 1,946,209; Feb. 6.
Tractor guide. M. Mattson. 1,946,225; Feb. 6.
Traffic signal, Vehicle accelerated. C. H. Bissell. 1,946,435; Feb. 6.
Trailer coupler. G. H. Curtiss. 1,946,194; Feb. 6.
Trailer coupling. E. R. Shaffer. 1,945,921; Feb. 6.
Train control, Automatic. P. J. Simmen. 1,945,920; Feb. 6.
Train pipe connecter, Automatic. J. Robinson. 1,945,704; Feb. 6.
Translating device. W. P. Mason. 1,946,223; Feb. 6.
Transmission for automobiles. T. L. Fawick. 1,946,154; Feb. 6.
Trap and air cleaner for internal-combustion engines, Combined backfire. O. A. Carnahan. 1,946,015; Feb. 6.
Tray for internal-combustion engines, Back fire. O. A. Carnahan. 1,946,014; Feb. 6.
Tray, Freezing. H. D. Geyer. 1,945,605; Feb. 6.
Truck body. H. C. Lima. 1,945,532; Feb. 6.
Truck, Lift. A. M. Barrett. 1,945,587; Feb. 6.
Truck, Self-loading. H. C. Lima. 1,945,533; Feb. 6.
Truss wheel construction. I. H. Athey. 1,946,122; Feb. 6.
Tube: *See*—
Cathode ray tube. Rectifier tube.
Discharge tube. X-ray tube.
Electron discharge tube.
Tube. I. Harter. 1,945,549; Feb. 6.
Tube closure, Collapsible. E. A. Tappe. 1,945,872; Feb. 6.
Tube cutter. R. L. Myers. 1,945,949; Feb. 6.
Tubes, Manufacture of seamless. W. Bark. 1,945,929; Feb. 6.
Tubing, Method of and apparatus for manufacturing. P. H. Chase, J. R. Falcomer, and W. O. Cunningham. 1,945,594; Feb. 6.
Tubular articles, Strip wound. G. L. Colbie. 1,945,967; Feb. 6.
Tufting mechanism. H. J. Schomer. 1,945,536; Feb. 6.
Tumbler, Votive light. T. M. O'Connell. 1,945,953; Feb. 6.
Turbine, Constant pressure reaction gas. R. G. Hill. 1,945,608; Feb. 6.
Turning implement. R. B. Penfield. 1,945,912; Feb. 6.
Type retaining device for printing machines. E. H. Aldinger and W. E. Friedrichs. 1,945,625; Feb. 6.
Typewriting machine. C. W. Crumrine. 1,945,847; Feb. 6.
Typewriting machine. G. G. Going. 1,945,893–4; Feb. 6.
Typewriting machine. F. A. Hart. 1,945,895; Feb. 6.
Typewriting machine. R. G. Thompson. 1,945,836; Feb. 6.
Typographical machine. R. H. Turner. 1,946,369; Feb. 6.
Umbrella. W. D. Hall. 1,945,685; Feb. 6.
Universal pipe joint. S. G. Plummer. 1,946,110; Feb. 6.
Vacuum producing equipment. H. M. Graham. 1,945,973; Feb. 6.
Valve: *See*—
Discharge-valve. Lubricated valve
Hydraulic four-way valve Mixing valve.
Valve. F. F. Rike. 1,945,657; Feb. 6.
Valve. J. Strouf. 1,945,760; Feb. 6.
Valve. C. M. Terry. 1,945,834; Feb. 6.
Valve and control system, Lubricated. F. E. Riley. 1,946,235; Feb. 6.
Valve control, Concentrated. W. N. Glab. 1,945,684; Feb. 6.
Valve converting apparatus, Electric. A. H. Mittag. 1,946,292; Feb. 6.
Valves and multiflanged pipe fittings, Method of and apparatus for extruding. S. W. Sparks. 1,946,117; Feb. 6.
Vapor electric device. W. G. Moran. 1,945,749; Feb. 6.
Vehicle. J. E. Houdashelt. 1,946,164; Feb. 6.
Vehicle body, Plural deck. J. Campbell. 1,946,013; Feb. 6.
Vehicle drive mechanism, Motor. A. S. Diack. 1,946,016; Feb. 6.
Vehicle leaf-spring construction. S. F. Briggs. 1,945,801; Feb. 6.
Vehicle light. W. A. Ziesing. 1,946,379; Feb. 6.
Vehicle, Motor. L. R. Buckendale. 1,946,060; Feb. 6.
Vehicle spring. E. T. Petrak. 1,946,357; Feb. 6.
Vending machine. J. W. Ing. 1,945,743; Feb. 6.
Vending machine. V. H. Kelley. 1,946,078; Feb. 6.
Vending machine. C. Walker. 1,946,370; Feb. 6.
Vending machine. H. C. Williamson. 1,946,183; Feb. 6.
Veneer machine. H. Wentjar. 1,946,375; Feb. 6.
Vernier tuning mechanism. D. O. Earnshaw. 1,946,423; Feb. 6.
Vibratory pad. E. A. Binney. 1,945,675; Feb. 6.
Viscosity, Method and apparatus for measuring. W. A. Nivling. 1,945,822; Feb. 6.
Wagon, Coaster. A. E. Carter. 1,946,422; Feb. 6.
Wagon hitch. W. J. Coultas. 1,945,732; Feb. 6.
Wall and ceiling construction. L. C. Piazza. 1,945,564; Feb. 6.
Wall board into bundles, Apparatus for forming. C. R. Birdsey. 1,946,056; Feb. 6.
Wall papers from peeled wood veneers, Producing. H. A. Hellmers. 1,945,686; Feb. 6.
Wall structure. E. L. Benedict. 1,945,991; Feb. 6.
Wall structure, Metallic. E. F. Hauserman, L. D. Mowery, and J. A. Bohnsack. 1,946,210; Feb. 6.
Warps for figuring fabrics, Device for controlling the. R. Rossman. 1,945,997; Feb. 6.
Washing machine. T. M. Elfving. 1,946,277–8; Feb. 6.
Water closet. C. F. Mink. Des. 91,467; Feb. 6.
Water indicator. F. K. Murphy, R. W. Retterer, and F. K. Mitchell. 1,946,175; Feb. 6.
Weasand and preparing the same. W. C. Ragals. 1,945,866; Feb. 6.
Weather strip. H. H. White. 1,946,251; Feb. 6.
Webs for brake shoes, Making. C. E. Budd. 1,946,061; Feb. 6.
Weeding implement, Universal. F. Struckmeyer. 1,946,006; Feb. 6.
Welding apparatus. J. T. Catlett. 1,946,305; Feb. 6.
Welding apparatus. I. F. Weller. 1,946,302; Feb. 6.
Welding with magnetic stabilization, Electric. R. Sarazin. 1,946,413; Feb. 6.
Wheel: *See*—
Conveyer wheel. Rotor wheel.
Wheel. C. L. Eksergian and T. A. Davenport. Des. 91,456; Feb. 6.
Wheel construction, Motor vehicle. P. M. Miller. 1,946,171; Feb. 6.
Wheel hub assembly. A. S. Van Halteren. 1,945,793; Feb. 6.
Wheels, Making wire. F. H. Le Jeune. 1,945,647; Feb. 6.
Winch. A. A. Johnson. 1,946,145; Feb. 6.
Wind-operated sign. L. Loewenstein. 1,945,649; Feb. 6.
Window attachment. J. F. McDaniel. 1,945,748; Feb. 6.
Window device. J. B. Clay and W. O. Wille. 1,945,881; Feb. 6.
Window opening and closing device. L. E. Werner. 1,946,050; Feb. 6.
Window regulator. S. W. Nicholson. 1,945,821; Feb. 6.
Windowed merchandise container. C. A. L. Stephens. 1,945,792; Feb. 6.
Windshield cleaner. J. Besson. 1,946,009; Feb. 6.
Wiper, Windshield. C. M. Van Auken. 1,946,119; Feb. 6.
Wire coating machine. O. F. Freeland. 1,945,851; Feb. 6.
Wire, Electric fish. J. T. Scott. 1,946,037; Feb. 6.
Wrap bending machine, Tight. W. E. Kane. 1,945,693; Feb. 6.
Wrapper. A. G. S. Lindgren. 1,945,648; Feb. 6.
X-ray equipment. W. K. Kearsley. 1,946,286–7; Feb 6.
X-ray system. A. Mutscheller. 1,946,176; Feb. 6.
X-ray tube. W. D. Coolidge. 1,946,312; Feb. 6.
Yarn treatment. F. J. Williams and H. E. Martin. 1,945,959; Feb. 6.

CLASSIFICATION OF PATENTS

ISSUED FEBRUARY 6, 1934

NOTE.—First number—class, second number—subclass, third number—patent number

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1,946,415
148: 1,946,067
161: 1,946,040
162: 1,946,195
1,946,199
170: 1,945,960
261— 34: 1,946,284
39: 1,945,609
111: 1,945,600
121: 1,945,915
263— 28: 1,946,270
44: 1,946,083
265— 11: 1,945,822
25: 1,946,087
1,946,099
1,946,100
1,946,133
267— 1: 1,946,340
8: 1,945,566
37: 1,945,801
49: 1,946,357
54: 1,945,595
268— 125: 1,945,821
134: 1,946,050
270— 62: 1,945,756
68: 1,946,142
271— 2,3: 1,946,170
62: 1,945,903
64: 1,946,143
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273— 3: 1,946,232
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77: 1,945,844
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121: 1,945,798
1,945,873
274— 10: 1,945,558
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67: 1,945,760
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190: 1,946,024
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14: 1,946,081
29: 1,945,763
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86: 1,946,406
97: 1,946,078
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U. S. GOVERNMENT PRINTING OFFICE: 1934

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Lead Pencil Company, New York, N. Y. Lead pencils. Serial No. 344,460; Feb. 13. Class 37.
American Metal Company, Limited, The, New York, N. Y. Copper in the form of wire bars, billets, etc. Serial No. 345,450; Feb. 13. Class 14.
American Tissue Mills, Holyoke, Mass. Corrugated ornamental paper. Serial No. 344,625; Feb. 13. Class 37.
Ames Co., Los Angeles, Calif. Medicinal compound. Serial No. 344,626; Feb. 13. Class 6.
Atkins, E. C., and Company, Indianapolis, Ind. Saws of various kinds. Serial No. 345,407; Feb. 13. Class 23.
Atlantic Service Company, Inc., Brooklyn, N. Y. Meat saws, blades, chopper plates, etc. Serial No. 345,408; Feb. 13. Class 23.
B & G Company, Tacoma, Wash. Protective preparation for feminine hygiene. Serial No. 345,409; Feb. 13. Class 6.
Baird-Daniels Co., Inc., New York, N. Y. Gin. Serial Nos. 343,016–17; Feb. 13. Class 49.
Baird-Daniels Co., Inc., New York, N. Y. Gin. Serial No. 343,019; Feb. 13. Class 49.
Barber Asphalt Company, The, Philadelphia, Pa. Asphalt roofing and shingles. Serial No. 339,144; Feb. 13. Class 12.
Bardenheimer, John, Wine & Liquor Co., St. Louis, Mo. Wines. Serial No. 345,493; Feb. 13. Class 47.
Battle Creek Food Company, The, Battle Creek, Mich. Laxative consisting of a combination of basorin and brewers' yeast. Serial No. 341,927; Feb. 13. Class 6.
Bean, Louis A., Denver, Colo. Stamped metal light reflectors. Serial No. 343,760; Feb. 13. Class 34.
Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. Serial No. 343,484; Feb. 13. Class 39.
Bleecker Shoe Co. Inc., New York, N. Y. Shoes. Serial No. 343,814; Feb. 13. Class 39.
Blish-Pertel, Chicago, Ill. Breath modifier or lozenge. Serial No. 340,105; Feb. 13. Class 6.
Bloomingdale Bros., Inc., New York, N. Y. Sherry, claret, and port wines. Serial No. 345,698; Feb. 13. Class 47.
Blum, Philip, & Company, Inc., Chicago, Ill. Whiskey, gin, rum, etc. Serial No. 345,096; Feb. 13. Class 49.
Bogart Shirt Co., Paterson, N. J. Negligee shirts. Serial No. 344,557; Feb. 13. Class 39.
Boll & Dunlop's Distillery. (See Naamlooze Vennootschap Boll & Dunlop's Distilleerderij.)
Bollinger, Jacques J. M., Ay, France. Champagne wines. Serial Nos. 344,496–8; Feb. 13. Class 47.
Brown, Charles H., New York, N. Y. Boots and shoes and parts thereof. Serial No. 344,317; Feb. 13. Class 39.
Brown Shoe Company, Inc., St. Louis, Mo. Shoes. Serial No. 343,766; Feb. 13. Class 39.
Builders Iron Foundry, Providence, R. I. Fluid rate of flow meters and controllers. Serial No. 343,383; Feb. 13. Class 26.
Burnett, Sir Robert, & Co. Limited, London, England. Gin, brandy, whiskey, etc. Serial No. 345,097; Feb. 13. Class 49.
Butler, Frank O., Chicago, Ill. Grips for golf clubs. Serial No. 316,915; Feb. 13. Class 22.
California Poppy Fluff Co. (See Lawson, Elmer W.)
California Winery. (See Prager, Abraham H.)
Cantine dei Baroni Franchetti. (See Franchetti, Carlo.)
Carter Dry Goods Company, Louisville, Ky. Sheeting, sheets, pillowcases, etc. Serial No. 345,237; Feb. 13. Class 42.
Cedar Arms Distributing Co. (See Sontag Chain Stores Co. Ltd.)
Cedar Cliff Distributing Co. (See Sontag Chain Stores Co. Ltd.)
Central Scientific Company, Chicago, Ill. Temperature indicating and recording devices used by the medical profession. Serial No. 334,663; Feb. 13. Class 26.
Century Engineering Corporation, Cedar Rapids, Iowa. Electric control switches for oil burners. Serial No. 341,644; Feb. 13. Class 21.
Cet Products Co. (See Tatnall, Edward C.)
Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,833; Feb. 13. Class 49.
Coats, J. & P., (R. I.) Inc., Pawtucket, R. I. Bias tape and trim. Serial No. 344,594; Feb. 13. Class 40.
Coffee Products of America, Inc. Ltd., Los Angeles, Calif. Coffee. Serial No. 341,757; Feb. 13. Class 46.
Columbia University Press, New York, N. Y. Column appearing in a periodical. Serial No. 344,176; Feb. 13. Class 38.
Columbus Coated Fabrics Corporation, Columbus, Ohio. Pyroxylin coated fabrics. Serial No. 345,048; Feb. 13. Class 50.
Connecticut Wine Co., Inc., New Haven, Conn. Wines. Serial No. 345,708; Feb. 13. Class 47.
Consolidated Tea Company, Inc., New York, N. Y. Tea. Serial No. 338,865; Feb. 13. Class 46.
Continental Blade Corporation, Brooklyn, N. Y. Razors and razor blades. Serial No. 345,498; Feb. 13. Class 28
Continental Distilling Corporation, Philadelphia, Pa. Whisky. Serial No. 342,882; Feb. 13. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, etc. Serial No. 343,963; Feb. 13. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, etc. Serial No. 343,972; Feb. 13. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Whiskey, gin, rum, etc. Serial Nos. 344,702–9; Feb. 13. Class 49.
Davis & Catterall, Inc., Passaic, N. J. Cotton piece goods. Serial No. 343,915; Feb. 13. Class 42.
Davis & Sharp, Beverly Hills, Calif. Strings or strands suitable for uses in the arts. Serial No. 345,415; Feb. 13. Class 50.
Defenders Mfg. Company, Inc., Long Island City, N. Y. Sheeting, sheets, towels, etc. Serial No. 345,133; Feb. 13. Class 42.
Dempster Mill Manufacturing Company, Beatrice, Nebr. Leathers for pumps. Serial No. 342,028; Feb. 13. Class 35.
Domiseal Corporation, Portland, Oreg. Building units and portable buildings made thereof. Serial No. 340,675; Feb. 13. Class 12.
Doscher, Charles A., doing business as Eagle Wine and Liquor Co., Rochester, N. Y. Whisky. Serial No. 342,943; Feb. 13. Class 49.
Drexell Products Corp., Brooklyn, N. Y. Cold cream soap. Serial No. 344,768; Feb. 13. Class 4.
Drexell Products Corp., Brooklyn, N. Y. Automobile polish. Serial No. 344,770; Feb. 13. Class 16.
Eagle Wine and Liquor Co. (See Doscher, Charles A.)
Eisner, David, & Co., Inc., New York, N. Y. Sports suits, dresses, and sweaters. Serial No. 344,716; Feb. 13. Class 39.
Elgin American Manufacturing Co., Elgin, Ill. Pocket lighters. Serial No. 345,447; Feb. 13. Class 34.
Englander, Philip, New York, N. Y. Photographic sports score cards. Serial No. 344,930; Feb. 13. Class 37.
Etablissements Henri Quenot, Vve Collette, successeur, Dijon, France. Alcoholic cordials. Serial No. 344,773; Feb. 13. Class 49.
Etablissements Nicolas, Charenton-le-Pont, France. Whisky, brandy, etc. Serial Nos. 343,063–4; Feb. 13. Class 49.
Etablissements Nicolas, Charenton-le-Pont, France. Wines. Serial Nos. 343,065–7; Feb. 13. Class 47.
Farnstan Company, The, Philadelphia, Pa. Ointment. Serial No. 345,010; Feb. 13. Class 6.
Fellowship of the Universal Design of Life, The, New York, N. Y. Periodical. Serial No. 344,640; Feb. 13. Class 38.
Field & Co. Fruit Merchants, Limited, London, England. Dried fruits. Serial No. 337,118; Feb. 13. Class 46.
Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled liquors. Serial No. 344,777; Feb. 13. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 345,152; Feb. 13. Class 49.
First Nighter Corporation, The, Chicago, Ill. Toilet, beauty, and cleansing cream, etc. Serial No. 344,584; Feb. 13. Class 6.
Fontenelle Brewing Company, Omaha, Nebr. Beer. Serial No. 344,971; Feb. 13. Class 48.
Franchetti, Carlo, doing business as Cantine dei Baroni Franchetti Capraia, Italy. Wines. Serial No. 343,343; Feb. 13. Class 47.
Franklin Fibre-Lamitex Corp., Wilmington, Del. Laminated phenol fibre. Serial No. 339,964; Feb. 13. Class 50.
Frigidaire Corporation. (See Meterice of America Co., Ltd., assignor.)
Frings, Heinrich, Bonn, Germany. Bacteria food for the manufacture of vinegar. Serial No. 343,773; Feb. 13. Class 46.
Garry & Company, Inc., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 344,845; Feb. 13. Class 6.
General Household Utilities Company, Chicago, Ill. Radio receiving sets. Serial No. 345,153; Feb. 13. Class 21.
General Shoe Corporation, Nashville, Tenn. Boots, shoes, and slippers. Serial No. 344,779; Feb. 13. Class 39.
General Wines & Spirits Corporation, Dover, Del., and New York, N. Y. Ale, beer, porter, and stout. Serial No. 344,901; Feb. 13. Class 48.
Glenarm Distributing Co. (See Sontag Chain Stores Co. Ltd.)
Goldblatt, Harvey E., Chicago, Ill. Physicians' prescription blanks and labels. Serial No. 341,332; Feb. 13. Class 37.
Goldcrown, Morris J., doing business as M. Julius, London, England. Hair combs. Serial No. 342,312; Feb. 13. Class 40.
Goldman, Mary T., Co. (See Monroe Chemical Co.)
Graves, C. H., & Sons Company, Boston, Mass. Whiskey and other potable distilled and spirituous liquors. Serial No. 343,345; Feb. 13. Class 49.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Graves, C. H., & Sons Company, Boston, Mass. Whiskey and other distilled and spirituous liquors. Serial No. 343,347; Feb. 13. Class 49.
Graves, C. H., & Sons Company, Boston, Mass. Gin, ale, etc. Serial No. 344,720; Feb. 13. Class 49.
Grumbacher, M., New York, N. Y. Pastel paper, Bristol board, sandpaper, etc. Serial No. 344,323; Feb. 13. Class 37.
Hanappier Peyrelongue & Cie., Bordeaux, France. Dry gin. Serial No. 344,783; Feb. 13. Class 49.
Harder, George H., Philmont, N. Y. Women's and children's wear. Serial No. 344,721; Feb. 13. Class 39.
Harriss, John A., New York, N. Y. Markers for safety zones and the like. Serial No. 344,647; Feb. 13. Class 50.
Heberlein & Co., A. G., Wattwil, Switzerland. Textile material. Serial No. 329,472; Feb. 13. Class 42.
Himika, S. A., Jalisco, Mexico. Maltless beverages and extracts for making the same. Serial No. 344,061; Feb. 13. Class 45.
Hirsch, Edouard M. D., Paris, France. Wines and champagnes. Serial No. 344,326; Feb. 13. Class 47.
Hoffmann-La Roche, Inc., Nutley, N. J. Pharmaceutical preparation. Serial No. 345,108; Feb. 13. Class 6.
Hollins, William & Company, Limited, Nottingham, England. Silk crepe piece goods. Serial No. 345,252; Feb. 13. Class 42.
Home Need Corporation, New Brunswick, N. J. Sanitary napkins. Serial No. 344,533; Feb. 13. Class 44.
Horner Brothers Woolen Mills, Eaton Rapids, Mich. Fabrics. Serial No. 341,365; Feb. 13. Class 42.
Huyck, F. C. & Sons, Rensselaer and Albany, N. Y. Bed blankets. Serial No. 344,962; Feb. 13. Class 42.
Ideal Food Products Co., Omaha, Nebr. Malt syrups. Serial No. 342,109; Feb. 13. Class 46.
International Importing Corp., New York, N. Y. Whiskey. Serial No. 344,907; Feb. 13. Class 49.
Island Fisheries Association, Ltd., The, New York, N. Y. Fish products. Serial No. 344,190; Feb. 13. Class 46.
Johns-Manville Corporation, New York, N. Y. Sound-controlling materials. Serial No. 345,299; Feb. 13. Class 12.
Julius, M. (See Goldcrown, Morris J.)
Kabushiki-Kaisha Kotobukiya, Osaka, Japan. Whisky, gin, brandy, and rum. Serial No. 345,058; Feb. 13. Class 49.
Kathreiner Gesellschaft mit beschränkter Haftung, Berlin, Germany. Coffee, coffee substitute, milk, etc. Serial No. 342,313; Feb. 13. Class 46.
Kent Manufacturing Company, The, Clifton Heights, Pa. Woolen piece goods. Serial No. 344,854; Feb. 13. Class 42.
Kiderlen, E. (See N. V. Nederlandsche Gist- en Spiritusfabriek.)
King, John P. Manufacturing Co., The, Augusta, Ga. Sheets and pillowcases. Serial No. 344,908; Feb. 13. Class 42.
Kinsey, Jacob G., Philadelphia, Pa. Whiskey. Serial No. 344,058; Feb. 13. Class 49.
Kleinert, I. B., Rubber Company, New York, N. Y. Waterproofed sheetings and fabrics in the piece. Serial No. 345,301; Feb. 13. Class 50.
Kolmar, Inc., Cincinnati, Ohio. Whiskey, brandy, gin, etc. Serial No. 345,061; Feb. 13. Class 49.
Kramer, J., Company, Inc., The, New York, N. Y. Gin, whiskey, etc. Serial No. 344,405; Feb. 13. Class 49.
Krill, Charles A., doing business as Sava-Spray Company, Kalamazoo, Mich. Preparation for spraying evergreens. Serial No. 344,336; Feb. 13. Class 6.
Lawson, Elmer W., doing business as California Poppy Fluff Co., Turlock, Calif. Breakfast food composed of cheese and cereal. Serial No. 344,588; Feb. 13. Class 46.
Leisure Publishing Company, Chicago, Ill. Magazines. Serial No. 338,321; Feb. 13. Class 38.
Levy & Franks Limited, London, England. Scotch whisky. Serial No. 344,657; Feb. 13. Class 49.
Locatelli, Ercole H., doing business as Mattia Locatelli, New York, N. Y. Wine. Serial No. 344,102; Feb. 13. Class 47.
Lou Belle Distributing Co. (See Sontag Chain Stores Co. Ltd.)
Low, R. M., doing business as Low Chemical Co., New York, N. Y. Liquid antiseptic for cleaning telephone mouthpieces. Serial No. 343,996; Feb. 13. Class 6.
Luther Ford & Company, Minneapolis, Minn. Bluing. Serial No. 339,783; Feb. 13. Class 6.
Macy, R. H., & Co., Inc., New York, N. Y. Wines. Serial No. 345,430; Feb. 13. Class 47.
Mallory Electric Corporation, Detroit, Mich. Electrical coils, distributors, and ignition systems. Serial No. 343,867; Feb. 13. Class 21.
Manhattan Shirt Co., The, New York, N. Y. Underwear, shirts, sweaters, etc. Serial No. 345,603; Feb. 13. Class 39.
Manhattan Shirt Co., The, New York, N. Y. Pull-overs or sweaters. Serial No. 345,604; Feb. 13. Class 39.
Maricopa Creamery Company, Inc., The, Phoenix, Ariz. Lactic acid powder. Serial No. 343,738; Feb. 13. Class 6.
Matos, Juan I., New York, N. Y. Toilet water preparation. Serial No. 340,503; Feb. 13. Class 6.
McCrory Stores Corporation, New York, N. Y. Hammers, hatchets, chisels, etc. Serial No. 332,070; Feb. 13. Class 23.
Memorial Grass Company, Cleveland, Ohio. Artificial grass grave sets. Serial No. 341,485; Feb. 13. Class 50.
Mendelsohn, Gertrude B., doing business as Tapestry Studio, Painesdale, Mich. Wall racks. Serial No. 332,093; Feb. 13. Class 32.
Merck & Co., Inc., Rahway, N. J. Anæsthetic. Serial No. 344,980; Feb. 13. Class 6.
Meterice of America Co., Ltd., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio. Time-registering electric switches. Serial No. 322,798; Feb. 13. Class 26.
Meterice of America Co., Ltd., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio. Time-registering electric switches. Serial No. 322,853; Feb. 13. Class 26.
Middlesex Products Company. (See Reversible Collar Company.)
Molson's Brewery Limited, Montreal, Quebec, Canada. Beer, ale, lager, etc. Serial Nos. 345,343–4; Feb. 13. Class 48.
Monroe Chemical Co., doing business as Mary T. Goldman Co. Hair color restorers. Serial No. 344,199; Feb. 13. Class 6.
Montreal Products Company, Limited, Montreal, Quebec, Canada. Scotch whiskey. Serial No. 343,783; Feb. 13. Class 49.
Moore, Edward J., Sons, Inc., Long Island City, N. Y. Preparation for treatment of venereal diseases. Serial No. 345,306; Feb. 13. Class 6.
N. V. Nederlandsche Gist- en Spiritus-fabriek, doing business as Netherlands Distilleries, also as E. Kiderlen, and also as Netherlands Steam Distillery Company, Ltd., Delft and Schiedam, Netherlands. Gins. Serial Nos. 344,598–9; Feb. 13. Class 49.
Naamlooze Vennootschap Boll & Dunlop's Distilleerderij, doing business as Boll & Dunlop's Distillery, Schiedam, Netherlands. Gins. Serial Nos. 344,600–1; Feb. 13. Class 49.
National Silk Company, Inc., The, South Coventry, Conn. Threads, yarns, and novelty yarns. Serial No. 345,172; Feb. 13. Class 43.
Netherlands Distilleries. (See N. V. Nederlandsche Gist- en Spiritus-fabriek.)
Netherlands Steam Distillery Company Ltd. (See N. V. Nederlandsche Gist- en Spiritus-fabriek.)
Nenmann, Otto, Prague XII, Czechoslovakia. Fly catchers. Serial No. 341,872; Feb. 13. Class 50.
Otis Clapp & Son, Inc., Boston, Mass. Ointment for rectal application. Serial No. 344,222; Feb. 13. Class 6.
Outdoor Publishing Company, New York, N. Y. Section of a publication. Serial No. 344,492; Feb. 13. Class 38.
Pacific Mercantile Company, Ltd., Honolulu, Hawaii. Preparation for exterminating white ants. Serial No. 342,378; Feb. 13. Class 6.
Paint Engineers, Inc., Dayton, Ohio. Paints and varnishes. Serial No. 344,542; Feb. 13. Class 16.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. Serial No. 345,268; Feb. 13. Class 15.
Pennzoil Company, The, Oil City, Pa. Lubricating oils and greases. Serial No. 345,348; Feb. 13. Class 15.
Periodical House Inc., New York, N. Y. Magazine. Serial No. 344,355; Feb. 13. Class 38.
Pollak, Henry, Inc., New York, N. Y. Paper hats. Serial No. 343,144; Feb. 13. Class 39.
Portland Distributing Company, Portland, Maine. Oil burners and parts thereof. Serial No. 345,072; Feb. 13. Class 34.
Prager, Abraham H., doing business as California Winery, Newark, N. J. Wines. Serial No. 344,547; Feb. 13. Class 47.
Red Spot Paint & Varnish Co., Evansville, Ind. Paint, automobile enamel, oil surfacer and primer, auto finish, etc. Serial No. 342,600; Feb. 13. Class 16.
Refiners Distributing Corporation, River Forest and Maywood, Ill. Gasoline. Serial No. 330,189; Feb. 13. Class 15.
Reversible Collar Company, doing business as Middlesex Products Company, Cambridge, Mass. Coated paper. Serial No. 333,950; Feb. 13. Class 37.
Reynolds, Robert J., doing business as R. J. Reynolds, Indian Orchard, Mass. Horse-radish. Serial No. 343,898; Feb. 13. Class 46.
Rezot Chemical Co. (See Tozer, George A.)
Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Polish for furniture and the like. Serial No. 340,174; Feb. 13. Class 16.
Robin Fils & Cie, New York, N. Y. Champagne. Serial Nos. 343,008–9; Feb. 13. Class 47.
Roman Stripe Mills, Inc., Easton, Pa. Hosiery. Serial No. 321,397; Feb. 13. Class 39.
Rosenau Bros. Inc., Philadelphia, Pa. Dresses, baby creepers, and children's pajamas. Serial No. 321,300; Feb. 13. Class 39.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Royal Battery Corporation, New York, N. Y. Storage batteries. Serial No. 345,176; Feb. 13. Class 21.
Royal Pioneer Paper Box Manufacturing Company, Philadelphia, Pa. Toys. Serial No. 342,622; Feb. 13. Class 22.
Sava-Spray Company. (See Krill, Charles A.)
Schenley Wine & Spirit Import Corporation, New York, N. Y. Wines. Serial No. 345,222; Feb. 13. Class 47.
Schenley Wine & Spirit Import Corporation, New York, N. Y. Wines. Serial Nos. 345,403–4; Feb. 13. Class 47.
Sears, Roebuck and Co., Chicago, Ill. Seeds, sponges, chamois, etc. Serial No. 336,137; Feb. 13. Class 1.
Security Mills, Inc., New York, N. Y. Knitted and woven woolen fabrics. Serial No. 344,619; Feb. 13. Class 42.
Semanaz Pere et Fils, Villeurbanne, France. Hair nets and veils. Serial No. 344,678; Feb. 13. Class 42.
Senco, Inc., Los Angeles, Calif. Negative X-ray paper. Serial No. 345,520; Feb. 13. Class 26.
Shaefer, Frederick W., New York, N. Y. Game of chance. Serial No. 344,986; Feb. 13. Class 22.
Shimola & Company, Cleveland, Ohio. Whiskey, gin, rum, etc. Serial No. 345,076; Feb. 13. Class 49.
Shimola & Company, Cleveland, Ohio. Whiskey, gin, rum, etc. Serial No. 345,683; Feb. 13. Class 49.
Slater, C. B., Company, South Braintree, Mass. Boots and shoes. Serial No. 344,608; Feb. 13. Class 39.
Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine & Cie, Paris, France. Brandies, cordials, etc. Serial No. 344,872; Feb. 13. Class 49.
Société Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny et Cirey, Paris, France. Sheet glass and mirrors. Serial No. 344,295; Feb. 13. Class 33.
Societe Anonyme des Produits Marnier-Lapostolle, Paris, France. Cherry cognac. Serial No. 343,747; Feb. 13. Class 49.
Societe Anonyme des Produits Marnier-Lapostolle, Paris, France. Distilled liquor. Serial No. 343,748; Feb. 13. Class 49.
Sontag Chain Stores Co. Ltd., doing business as Cedar Arms Distributing Co., Los Angeles, Calif. Whiskey Serial No. 345,078; Feb. 13. Class 49.
Sontag Chain Stores Co. Ltd., doing business as Cedar Cliff Distributing Co., Los Angeles, Calif. Whiskey. Serial No. 345,079; Feb. 13. Class 49.
Sontag Chain Stores Co. Ltd., doing business as Glenarm Distributing Co., Los Angeles, Calif. Whiskey. Serial No. 345,081; Feb. 13. Class 49.
Sontag Chain Stores Co. Ltd., doing business as Lou Belle Distributing Co., Los Angeles, Calif. Whiskey. Serial No. 345,082; Feb. 13. Class 49.
Southern Bagging Company, Houston, Tex. Jute bagging and patches. Serial No. 343,372; Feb. 13. Class 42.
Spellman, E. L., Co. Inc., Hoboken, N. J. Wine. Serial No. 345,613; Feb. 13. Class 47.
Spellman, E. L., Co. Inc., Hoboken, N. J. Whiskey. Serial No. 345,685; Feb. 13. Class 49.
Stagg, Geo. T., Co., The, Frankfort, Ky. Whiskey and other potable distilled spirits. Serial No. 344,486; Feb. 13. Class 49.
Standard Milling Company, New York, N. Y. Wheat flour. Serial No. 344,207; Feb. 13. Class 46.
Standard Oil Development Company, Linden, N. J. Lubricating oils. Serial No. 345,275; Feb. 13. Class 15.
Steinberger Bros. Inc., New York, N. Y. Yarn. Serial No. 345,569; Feb. 13. Class 43.
Stone, Harry S., New York, N. Y. Hand bags, purses, pocketbooks. Serial No. 344,991; Feb. 13. Class 3.
Susquehanna Collieries Company, Cleveland, Ohio. Coal. Serial No. 332,666; Feb. 13. Class 1.
Tapestry Studio. (See Mendelsohn, Gertrude B.)
Tatnall, Edward C., doing business as Cet Products Co., New York, N. Y. Medicinal tablet to remove odor from the breath. Serial No. 345,648; Feb. 13. Class 6.
Titeflex Metal Hose Co., Newark, N. J. Flexible metal hose. Serial No. 344,549; Feb. 13. Class 35.
Tozer, George A., doing business as Rezot Chemical Co., Everett, Wash. Medicinal preparation. Serial No. 344,301; Feb. 13. Class 6.
Tunison, Richard G., doing business as R. G. Tunison & Co., Newark, N. J. Sulphur and liver blood tonic. Serial No. 344,414; Feb. 13. Class 6.
Tunison, Richard G., doing business as R. G. Tunison & Co., Newark, N. J. Sulphur and liver blood tonic. Serial Nos. 345,187–8; Feb. 13. Class 6.
Turmac Specialties Co., Berkeley, Calif. Skin cleanser and astringent, after-shaving lotion, etc. Serial No. 342,987; Feb. 13. Class 6.
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey. Serial No. 344,027; Feb. 13. Class 49.
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey, gin, and rum. Serial No. 344,028; Feb. 13. Class 49.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. Serial No. 345,574; Feb. 13. Class 22.
Vadsco Sales Corporation, Long Island City, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 339,130; Feb. 13. Class 6.
Vintage Importations Inc., New York, N. Y. Wines. Serial No. 342,118; Feb. 13. Class 47.
Waddington, John, Limited, Leeds, England. Card games. Serial No. 345,087; Feb. 13. Class 22.
Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft, Schonau, near Chemnitz, Germany. Typewriters, envelope-feeding devices, ribbon-inking machines, etc. Serial No. 342,116; Feb. 13. Class 23.
Ward, William E., South Orange, N. J. Pancake or waffle flour. Serial No. 344,489; Feb. 13. Class 46.
Wards Cove Packing Company, Ketchikan, Alaska. Canned salmon. Serial No. 343,935; Feb. 13. Class 46.
Weller, W. L., & Sons, Inc., Louisville, Ky. Whiskies. Serial No. 342,089; Feb. 13. Class 49.
Western Bakeries Corporation, Ltd., Los Angeles, Calif. Bread. Serial No. 344,823; Feb. 13. Class 46.
Willhelm Lubrication Company, St. Paul, Minn. Lubricating oil. Serial No. 345,088; Feb. 13. Class 15.
Winthrop Chemical Company, Inc., New York, N. Y. Iodine compound. Serial No. 344,958; Feb. 13. Class 6.
Winthrop Chemical Company, Inc., New York, N. Y. Preparation used as a sedative and antispasmodic. Serial No. 345,190; Feb. 13. Class 6.
Wynne Oil Company, Philadelphia, Pa. Motor lubricating oil. Serial No. 344,740; Feb. 13. Class 15.
Yale Rubber Company, Inc., The, Akron, Ohio. Pneumatic tires. Serial No. 338,544; Feb. 13. Class 35.
Yochim, Joseph C., New Orleans, La. Gins, rum, etc. Serial No. 344,959; Feb. 13. Class 49.
Young, Edward, & Co., Limited, London, England. Whisky. Serial No. 344,741; Feb. 13. Class 49.
Younghusband, James L., Chicago, Ill. Face powder. Serial No. 343,536; Feb. 13. Class 6.
Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Wallpaper. Serial No. 341,511; Feb. 13. Class 37.
Zlwes, Alexandre, Paris, France. Memorandum books. Serial No. 343,537; Feb. 13. Class 37.

LIST OF REGISTRANTS OF TRADE-MARKS

Actiengesellschaft Hackerbräu, Munich, Germany. Beer, porter, ale, beer wort, etc. 310,169; Feb. 13; Serial No. 342,147; published Dec. 5, 1933. Class 48.
Adam, Frank, Electric Co., St. Louis, Mo. Electrical heaters. 310,268; Feb. 13; Serial No. 341,317; published Nov. 21, 1933. Class 21.
Adams, Henry F., Coffeyville, Kans. Oils and greases. 310,130; Feb. 13; Serial No. 342,862; published Dec. 5, 1933. Class 15.
Aktieselskabet de Forenede Bryggerier, Copenhagen, Denmark. Beer. 310,178; Feb. 13; Serial No. 339,139; published Dec. 5, 1933. Class 48.
Albers Bros. Milling Co., San Francisco, Calif., to Albers Bros. Milling Company, Portland, Oreg. Compound flour. 95,192; renewed Feb. 3, 1934.
Alejandro Gumma Castelló, Barcelona, Spain. Preparation for use in the treatment of stomach complaints. 310,209; Feb. 13; Serial No. 338,074; published Nov. 21, 1933. Class 6.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. 310,060; Feb. 13; Serial No. 342,722; published Dec. 5, 1933. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. 310,070–2; Feb. 13; Serial Nos. 342,606–8; published Dec. 5, 1933. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. 310,076; Feb. 13; Serial No. 342,105; published Nov. 28, 1933. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. 310,115; Feb. 13; Serial No. 342,563; published Dec. 5, 1933. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. 310,122; Feb. 13; Serial No. 342,608; published Dec. 5, 1933. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. 310,123; Feb. 13; Serial No. 342,605; published Dec. 5, 1933. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. 310,137; Feb. 13; Serial No. 342,331; published Nov. 28, 1933. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky. Whiskey. 310,206; Feb. 13; Serial No. 342,604; published Dec. 5, 1933. Class 49.
Ames Harris Neville Co. (See Plummer, W. A., M'f'g. Co., assignor.)
Apris Corporation, Cleveland, Ohio. Safety razors and blades. 310,138; Feb. 13; Serial No. 342,332; published Nov. 28, 1933. Class 23.
Aridus Products. (See Speciale, Mariatta.)

Asbach & Co. Aktiengesellschaft, Rudesheim-on-the-Rhine, Germany. Liquors. 310,179–80; Feb. 13; Serial Nos. 339,218–19; published Nov. 21, 1933. Class 49.
Ault & Wiborg Carbon & Ribbon Co., Inc., Cincinnati, Ohio. Show card ink colors. 310,160; Feb. 13; Serial No. 341,910; published Dec. 5, 1933. Class 11.
Barkentine, Marjorie, New York, N. Y. Playing cards. 310,089; Feb. 13; Serial No. 341,991; published Dec. 5, 1933. Class 22.
Barteldes Seed Company, The, Denver, Colo., and Lawrence, Kans. Agricultural and horticultural seeds. 95,288; renewed Feb. 10, 1934.
Baum, Ernest, doing business as Ernest Baum Products Co., Los Angeles, Calif. Permanent-wave machines, pads, curlers, etc., for permanent wave machines. 310,127; Feb. 13; Serial No. 342,833; published Dec. 5, 1933. Class 44.
Bausch & Lomb Optical Company, Rochester, N. Y. Field glasses, telescopes, objective lenses, etc. 310,108; Feb. 13; Serial No. 342,025; published Dec. 5, 1933. Class 26.
Beem, Oscar J., West Riverside, Calif. Especially prepared ready-to-cook vegetables. 310,291; Feb. 13. Class 46.
Beerometer Co., The, St. Louis, Mo. Measuring faucets. 310,098; Feb. 13; Serial No. 342,516; published Dec. 5, 1933. Class 26.
Behr-Manning Corporation. (See Manning Sand Paper Company, assignor.)
Bergo Laboratories. (See Goldberg, Berenice C.)
Best Foods, Inc., The. (See Hellman, Richard, assignor.)
Black, William H., New York, N. Y. Safety razors. 310,230; Feb. 13; Serial No. 337,246; published Dec. 5, 1933. Class 23.
Blodgett Milling Co., The, to Frank H. Blodgett, Incorporated, Janesville, Wis., successor. Buckwheat flour and buckwheat products. 97,115; renewed May 19, 1934.
Booster Chemical & Engineering Co. (See Windsor-Lloyd Products, Inc.)
Bourjois, Inc., New York, N. Y. Astringents, bleach creams, rouges, etc. 310,211; Feb. 13; Serial No. 338,479; published Nov. 21, 1933. Class 6.
Bragg-Kliesrath Corporation, South Bend, Ind. Brakes and brake systems and parts thereof. 310,208; Feb. 13; Serial No. 338,068; published Dec. 5, 1933. Class 19.
Bragg Petroleum Corporation, New York, N. Y. Gasoline. 310,107; Feb. 13; Serial No. 342,026; published Nov. 21, 1933. Class 15.
Brower Manufacturing Company, Quincy, Ill. Mechanical feed mixers. 310,263; Feb. 13; Serial No. 341,384; published Dec. 5, 1933. Class 23.
Buromin Company, The, Pittsburgh, Pa. Water softening and conditioning chemical. 310,231; Feb. 13; Serial No. 337,383; published Dec. 5, 1933. Class 6.
Byers Ice Cream Company, East Point, Ga. Ice cream. 310,189; Feb. 13; Serial No. 340,110; published Nov. 28, 1933. Class 46.
Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft, Berlin, Germany. Medicine. 310,194; Feb. 13; Serial No. 341,697; published Nov. 28, 1933. Class 6.
Byron Jackson Co., Los Angeles, Calif. Oil well tools. 310,177; Feb. 13; Serial No. 338,831; published Nov. 28, 1933. Class 23.
California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Sulphur. 310,204; Feb. 13; Serial No. 341,857; published Nov. 28, 1933. Class 6.
Califruit Wineries, Inc., New York, N. Y. Cordials and brandies, etc. 310,086; Feb. 13; Serial No. 342,063; published Nov. 21, 1933. Class 49.
Califruit Wineries, Inc., New York, N. Y. Whiskey, brandy, gin, etc. 310,087; Feb. 13; Serial No. 342,062; published Nov. 21, 1933. Class 49.
Callaway Mills, Lagrange, Ga. Seat, stool, toilet-seat, and toilet-stool covers. 310,270; Feb. 13; Serial No. 341,190; published Nov. 28, 1933. Class 32.
Calumet Refining Co., Chicago, Ill. Lubricating oils and greases. 310,233; Feb. 13; Serial No. 337,599; published Nov. 28, 1933. Class 15.
Cannavan-Leggett Brewery, Inc., Niagara Falls, N. Y. Beer and ale. 310,256; Feb. 13; Serial No. 341,568; published Dec. 5, 1933. Class 48.
Carnegie, P. D., & Sons, Ltd., London, England. Scotch whisky. 310,262; Feb. 13; Serial No. 341,421; published Nov. 21, 1933. Class 49.
Cataract Brewing Co., Inc. of Rochester, N. Y., Rochester, N. Y. Ale. 310,141; Feb. 13; Serial No. 342,256; published Dec. 5, 1933. Class 48.
Catto, James, & Co. Limited, Aberdeen, Scotland. Whisky. 310,183; Feb. 13; Serial No. 339,518; published Nov. 21, 1933. Class 49.
Chalié, Richards & Co., Ltd., London, England. Whisky and other potable distilled liquors. 310,266; Feb. 13; Serial No. 341,014; published Nov. 28, 1933. Class 49.
Chevalier, Faye, Houston, Tex. Facial oil for the skin. 310,273; Feb. 13; Serial No. 341,645; published Nov. 21, 1933. Class 6.
Chivas Brothers, Aberdeen, Scotland. Whisky. 310,085; Feb. 13; Serial No. 342,064; published Nov. 28, 1933. Class 49.
Citrin, Max, New York, N. Y. Rompers, creepers, boys' suits etc. 310,053; Feb. 13; Serial No. 342,387; published Dec. 5, 1933. Class 39.
Colonel Publishing Company, The, Louisville, Ky. Magazine. 310,271; Feb. 13; Serial No. 341,160; published Nov. 21, 1933. Class 38.
Consolidated Distilleries, Limited, Montreal, Quebec, Canada. Whisky and other potable distilled liquors. 310,058–9; Feb. 13; Serial Nos. 342,731–2; published Nov. 28, 1933. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Gin. 310,075; Feb. 13; Serial No. 342,106; published Nov. 21, 1933. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Gin. 310,131; Feb. 13; Serial No. 342,879; published Dec. 5, 1933. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Gin. 310,149; Feb. 13; Serial No. 342,881; published Dec. 5, 1933. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Rum. 310,150; Feb. 13; Serial No. 342,889; published Dec. 5, 1933. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Whisky. 310,151; Feb. 13; Serial No. 342,896; published Dec. 5, 1933. Class 49.
Continental Distilling Corporation, Philadelphia, Pa. Gin. 310,152; Feb. 13; Serial No. 342,898; published Dec. 5, 1933. Class 49.
Contini, Sebastian, Co., Sacramento, Calif. Eye lotion. 310,066; Feb. 13; Serial No. 342,624; published Nov. 28, 1933. Class 6.
Corcoran-Brown Lamp Company, The, Cincinnati, Ohio. Chrome steel kitchen and cooking hollow ware. 310,220; Feb. 13; Serial No. 336,499; published Dec. 5, 1933. Class 13.
Cork Distilleries Company Limited, Morrison's Island, Cork, Ireland. Whisky. 310,096; Feb. 13; Serial No. 341,951. Class 49.
Courtaulds, Limited, London, England. Yarns of cellulose. 310,142; Feb. 13; Serial No. 342,260; published Dec. 5, 1933. Class 43.
Craig's, Inc. (See Plough, Inc.)
Curd, George E., Paducah, Ky., to George E. Curd, Memphis, Tenn. Foot powder. 98,043; renewed June 30, 1934.
Curtiss Candy Company, The, Chicago, Ill. Candy. 310,217; Feb. 13; Serial No. 336,930; published Nov. 28, 1933. Class 46.
D'Accardo, Joseph, doing business as Hi-Jump Fruit Co., Modesto, Calif. Fresh deciduous fruits, grapes, and vegetables. 310,143; Feb. 13; Serial No. 342,262; published Nov. 28, 1933. Class 46.
Davidson, Alfred, New York, N. Y. Patches and swatches. 310,280; Feb. 13. Class 40.
Davidson, Cyril R., doing business as Davidson Bros. Mfg. Co., New York, N. Y. Window cleaning devices. 310,244; Feb. 13; Serial No. 342,263; published Dec. 5, 1933. Class 29.
De Kuyper, John, & Son, Rotterdam, Netherlands. Gin. 310,057; Feb. 13. Serial No. 342,742; published Dec. 5, 1933. Class 49.
De Leon Peanut Company, De Leon, Tex. Shelled peanuts. 310,239; Feb. 13; Serial No. 330,040; published Nov. 28, 1933. Class 46.
Del Monico Wine and Spirit Corporation, New York, N. Y. Maltless beverages. 310,153; Feb. 13; Serial No. 342,899; published Dec. 5, 1933. Class 45.
Denison, Frank I., & Co., Inc., New York, N. Y. Shirts, pajamas, underwear, etc. 310,054; Feb. 13; Serial No. 342,389; published Dec. 5, 1933. Class 39.
Denman, James L. & Co., Limited, London, England. Whisky. 310,114; Feb. 13; Serial No. 342,581; published Nov. 28, 1933. Class 49.
Dennison Manufacturing Company, Boston, to Dennison Manufacturing Company, Framingham, Mass. Tags. 94,616; renewed Dec. 23, 1933.
Derry, W. E., M. D., Inc., Dover, N. J. Laxatives. 94,548; renewed Dec. 16, 1933.
Dewar, John, & Sons Limited, Perth, Scotland, and London, England. Whisky. 310,049; Feb. 13; Serial No. 342,341; published Nov. 28, 1933. Class 49.
Dowling Bros. Distilling Co., Inc., Burgin, Ky. Whisky. 310,084; Feb. 13; Serial No. 342,069; published Nov. 21, 1933. Class 49.
Draw-Ee Salve Co., The. (See Masheter, Elizabeth B.)
Eagle Knitting Mills, Milwaukee, Wis. Caps. 96,655; renewed Apr. 28, 1934.
Eastman Kodak Company, Rochester, N. Y. Liquid compositions. 310,219; Feb. 13; Serial No. 336,641; published Nov. 21, 1933. Class 6.
Easton Sales and Distributing Company. (See Quinton, George.)
Etablissements E. Bigeon Inc., New York, N. Y. Wines. 310,164–5; Feb. 13; Serial Nos. 342,744–5; published Dec. 5, 1933. Class 47.
Fan-Vac Manufacturing Company, Wichita, Kans. Waterproofing preparation for ignition systems. 310,281; Feb. 13. Class 6.
Farmstead, Inc., New York, N. Y. Cones filled with ice cream. 310,202; Feb. 13; Serial No. 341,833; published Nov. 28, 1933. Class 46.
Felton Chemical Company, Inc., Brooklyn, N. Y. Perfume oils. 310,095; Feb. 13; Serial No. 341,954; published Nov. 28, 1933. Class 6.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, brandy, gin, etc. 310,106; Feb. 13; Serial No. 342,532; published Nov. 28, 1933. Class 49.

Finch, Jos. S., & Company, New York, N. Y. Whiskey, brandy, gin, etc. 310,144; Feb. 13; Serial No. 342,970; published Dec. 5, 1933. Class 49.
Flannery, John L., doing business as Vista Toy Company, New York, N. Y. Toy buildings. 310,159; Feb. 13; Serial No. 341,919; published Dec. 5, 1933. Class 22.
Forrest, Hal, whose nom de plume is Harry Paul, Los Angeles, Calif. Newspaper cartoons. 310,243; Feb. 13; Serial No. 342,265; published Nov. 28, 1933. Class 38.
Foster-Milburn Company, Buffalo, N. Y. Laxatives. 310,201; Feb. 13; Serial No. 341,821; published Nov. 28, 1933. Class 6.
Freedom Oil Works Company, The, Freedom, Pa. Oils. 310,145; Feb. 13; Serial No. 342,800; published Dec. 5, 1933. Class 15.
Fremont Canning Company, Fremont, Mich. Canned strained vegetable products. 310,224; Feb. 13; Serial No. 330,546; published Nov. 28, 1933. Class 46.
Friedman Silver Co., Inc., Brooklyn, N. Y. Silver-plated hollow tableware and silver-plated ornamental ware. 310,252; Feb. 13; Serial No. 340,426; published Nov. 28, 1933. Class 28.
Fruit Industries, Ltd., Los Angeles, Calif. Wines. 310,156; Feb. 13; Serial No. 342,946; published Dec. 5, 1933. Class 47.
Fulton Bag & Cotton Mills, assignor to The Selig Company, Atlanta, Ga. Disinfectant. 97,414; renewed June 2, 1934.
Garrett & Co., Norfolk, Va., assignor, by mesne assignments, to Garrett & Company, Incorporated, Brooklyn, N. Y. Blackberry cordial. 94,785; renewed Dec. 30, 1933.
General Fire Extinguisher Company, New York, N. Y., and Providence, R. I., assignor to General Fire Extinguisher Company, Providence, R. I. Pipe fittings and metal valves. 97,327; renewed June 2, 1934.
Genuine Fruit Acid Laboratories. (See Hahn, Arthur.)
Gibson, Guy T., Inc., New York, N. Y. Perfume, toilet water, face and dusting powder. 310,186; Feb. 13; Serial No. 339,863; published Dec. 5, 1933. Class 6.
Giering, J. F., Bottling Co., The, doing business as The Silver Knight Ginger Ale Co., Youngstown, Ohio. Malt beverages. 310,163; Feb. 13; Serial No. 342,754; published Dec. 5, 1933. Class 48.
Goldberg, Berenice C., doing business as Bergo Laboratories, Hollywood, Calif. Finger nail oil. 310,249; Feb. 13; Serial No. 340,683; published Nov. 21, 1933. Class 6.
Goodman, Lillian, New York, N. Y. Foot salve. 310,190; Feb. 13; Serial No. 340,119; published Nov. 21, 1933. Class 6.
Goodwin, Charles M., sr., Washington, D. C. Distilled alcoholic cordials and cocktails. 310,069; Feb. 13; Serial No. 342,613; published Dec. 5, 1933. Class 49.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Storage batteries and spark plugs. 310,205; Feb. 13; Serial No. 341,866; published Nov. 21, 1933. Class 21.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Electrical conduit. 310,267; Feb. 13; Serial No. 341,598; published Nov. 21, 1933. Class 21.
Governor and Company of Adventurers of England Trading into Hudson's Bay, The, Winnipeg, Manitoba, Canada. Whiskey. 310,253; Feb. 13; Serial No. 340,351; published Nov. 21, 1933. Class 49.
Governor and Company of Adventurers of England Trading into Hudson's Bay, The, Winnipeg, Manitoba, Canada. Rum. 310,276; Feb. 13; Serial No. 341,678; published Nov. 21, 1933. Class 49.
Grafo Lubricating Company. (See Willson, Edward A.)
Grant, W. T., Company, New York, N. Y. Polish mops. 310,091; Feb. 13; Serial No. 341,960; published Dec. 5, 1933. Class 29.
Grant, W. T., Company, New York, N. Y. Auto tube repair kits and auto tube patches. 310,094; Feb. 13; Serial No. 341,966; published Dec. 5, 1933. Class 35.
Graphic Arts Corporation, Minneapolis, Minn. Magazines. 310,176; Feb. 13; Serial No. 342,217; published Nov. 21, 1933. Class 38.
Great Western Pottery Co., The. (See Standard Sanitary Manufacturing Company, assignor.)
Griffin Manufacturing Co., Inc., New York, N. Y. Dry cleaning preparations. 310,170; Feb. 13; Serial No. 342,156; published Dec. 5, 1933. Class 4.
Gutmann, Ferdinand, and Co., Brooklyn, N. Y. Bottle and jar caps or closures. 310,172; Feb. 13; Serial No. 342,180; published Dec. 5, 1933. Class 50.
Hahn, Arthur, doing business as Genuine Fruit Acid Laboratories, Philadelphia, Pa. Saline laxative. 310,221; Feb. 13; Serial No. 336,341; published Nov. 21, 1933. Class 6.
Hampden Brewing Company, Willimansett, Mass. Malt beverages. 310,250; Feb. 13; Serial No. 340,646; published Dec. 5, 1933. Class 48.
Harden, Frank S., The, McConnellsville, N. Y. Upholstered chairs, couches, rockers, etc. 310,287; Feb. 13. Class 32.
Hat Life, Inc., New York, N. Y. Publications. 310,171; Feb. 13; Serial No. 342,157; published Nov. 21, 1933. Class 38.
Hebics Co. (See Scheib, Louis.)
Hellman, Richard, assignor, by mesne assignments, to The Best Foods, Inc., New York, N. Y. Mayonnaise dressing. 96,884; renewed May 5, 1934.
Henckels, J. A., Inc., New York, N. Y. Manicuring scissors, nail files and nippers, and manicuring tweezers. 310,277; Feb. 13; Serial No. 341,689; published Dec. 5, 1933. Class 44.
Hijos de Pablo Esparza, Villava, Spain. Anisette brandy. 310,234; Feb. 13; Serial No. 335,419; published Dec. 5, 1933. Class 49.
Hi-Jump Fruit Co. (See D'Accardo, Joseph.)
Hill, Thomson & Co., Edinburgh, Scotland, and London, England. Whisky and gin. 310,093; Feb. 13; Serial No. 341,970; published Dec. 5, 1933. Class 49.
Home Facilities, Inc., Los Angeles, Calif. Hangers for ties. 310,228; Feb. 13; Serial No. 336,985; published July 18, 1933. Class 13.
Honeycombe & Son, Madison, Wis. Musical instruments and musical instrument repairs and supplies. 310,158; Feb. 13; Serial No. 341,923; published Nov. 21, 1933. Class 36.
Intercity Oil Company, Philadelphia, Pa. Oils. 310,154; Feb. 13; Serial No. 342,910; published Dec. 5, 1933. Class 15.
International Catholic Truth Society, Brooklyn, N. Y. Magazine. 310,246; Feb. 13; Serial No. 340,878; published Nov. 28, 1933. Class 38.
Jaeger, Ralph, Brooklyn, N. Y. Fabric labels. 310,278; Feb. 13. Class 40.
Jennings Company, Inc., The, Springfield, Mass. Glass cutters. 310,187; Feb. 13; Serial No. 339,938; published Dec. 5, 1933. Class 23.
Juillard, Incorporated, San Francisco, Calif. Whisky. 310,047; Feb. 13; Serial No. 342,439; published Nov. 28, 1933. Class 49.
Juillard, Incorporated, San Francisco, Calif. Whisky. 310,048; Feb. 13; Serial No. 342,442; published Nov. 28, 1933. Class 49.
Kinloch, Charles, & Co. Limited, London England. Gin, whisky, brandy, and rum. 310,065; Feb. 13; Serial No. 342,652; published Nov. 28, 1933. Class 49.
Krasne, Abraham, New York, N. Y. Food products. 310,259; Feb. 13; Serial No. 341,518; published Nov. 28, 1933. Class 46.
Krug, Jos., doing business as Krug & Co., Reims, France. Champagne wines. 310,128; Feb. 13; Serial No. 342,844; published Dec. 5, 1933. Class 47.
Labrot & Graham Incorporated, Versailles, Ky. Whisky. 310,197; Feb. 13; Serial No. 341,767; published Nov. 21, 1933. Class 49.
Lamont, Corliss & Company, New York, N. Y. Prepared edible chocolate. 310,210; Feb. 13; Serial No. 338,253; published Nov. 28, 1933. Class 46.
Larenaudie, Pierre A., Tuile-Correze, France. Wines. 310,193; Feb. 13; Serial No. 341,690; published Dec. 5, 1933. Class 47.
Leland, Charles, Moline, Kans., assignor to The Rids Glare Lens Co., Coffeyville, Kans. Electric automobile lamps and parts thereof. 310,215; Feb. 13; Serial No. 336,874; published Nov. 28, 1933. Class 21.
Leneveux, Charlotte. (See Petrissans, Mme.)
Liebovitz, S., & Sons, Inc., New York, N. Y. Shirts. 310,196; Feb. 13; Serial No. 341,715; published Nov. 14, 1933. Class 39.
Lilienthal, Benjamin P., San Francisco, Calif. Whisky. 310,242; Feb. 13; Serial No. 342,281; published Nov. 28, 1933. Class 49.
Lilienthal, Benjamin P., San Francisco, Calif. Whisky. 310,245; Feb. 13; Serial No. 342,279; published Nov. 28, 1933. Class 49.
Lisner, D., & Co., New York, N. Y. Empty compacts and vanities. 310,229; Feb. 13; Serial No. 337,194; published Dec. 5, 1933. Class 2.
Mackenzie, L. R., Incorporated, Tulsa, Okla. Pavement materials. 310,251; Feb. 13; Serial No. 340,480; published Nov. 21, 1933. Class 12.
Macy, R. H. & Co., Inc., New York, N. Y. Whisky. 310,105; Feb. 13; Serial No. 342,544; published Nov. 28, 1933. Class 49.
Mahoney, Edward L., doing business as Edward L. Mahoney & Company, Baltimore, Md. Whisky. 310,168; Feb. 13; Serial No. 342,229; published Dec. 5, 1933. Class 49.
Mandel, Louis, doing business as Tune-O-Matic Radio Co., Chicago, Ill. Radio tuning dials, radio receiving sets and parts. 310,117; Feb. 13; Serial No. 342,036; published Nov. 28, 1933. Class 21.
Manning Sand Paper Company, Watervliet, assignor to Behr-Manning Corporation, Troy, N. Y. Abrasive paper and cloth. 97,430; renewed June 2, 1934.
Manufacture Metallurgique De Tournus, Tournus, France. Household and kitchen utensils. 310,068; Feb. 13; Serial No. 342,616; published Dec. 5, 1933. Class 13.
Marquette Petroleum Products, Inc., Chicago, Ill. Lubricating oils and greases. 310,241; Feb. 13; Serial No. 308,118; published Nov. 21, 1933. Class 15.
Maruny, Santiago P., Barcelona, Spain. Antiasthmatic preparation. 310,254; Feb. 13; Serial No. 340,268; published Nov. 28, 1933. Class 6.
Masheter, Elizabeth B., doing business as The Draw-Ee Salve Co., Seaman, Ohio. Salve and ointment and preparation for trenting wounds, cuts, boils, etc. 310,265; Feb. 13; Serial No. 341,606; published Nov. 21, 1933. Class 6.
May Oil Burner Corporation, Baltimore, Md. Combustion chambers for boilers and furnaces. 310,173; Feb. 13; Serial No. 342,189; published Dec. 5, 1933. Class 34.

McConnell, J. & J., Limited, Belfast, Ireland, and London, England. Whisky. 310,113; Feb. 13; Serial No. 342,590; published Nov. 28, 1933. Class 49.
McKesson-Berry-Martin Company. (See Spurlock-Neal Co., assignor.)
McQuivey, Donald, New York, N. Y. Gin. 310,155; Feb. 13; Serial No. 342,919; published Dec. 5, 1933. Class 49.
Melrose-Drover, Limited, Leith, Scotland, and London, England. Whisky. 310,261; Feb. 13; Serial No. 341,461; published Nov. 28, 1933. Class 49.
Metalink Co., New York, N. Y. Etching fluids. 310,102; Feb. 13; Serial No. 342,484; published Dec. 5, 1933. Class 6.
Mid-Continent Mud Company, Houston, Tex. Raw materials consisting of clay used in oil well drilling. 310,260; Feb. 13; Serial No. 341,487; published Dec. 5, 1933. Class 1.
Miles, F. J. M., Sunland, Calif. Cologne, talcum powder, perfume, etc. 310,248; Feb. 13; Serial No. 340,749; published Nov. 21, 1933. Class 6.
Miller, Clarence E., Denver, Colo. Liniment. 310,272; Feb. 13; Serial No. 341,028; published Nov. 28, 1933. Class 6.
Miller, Howard W., Pittsburgh, Pa. Gasoline and lubricating oils. 310,184; Feb. 13; Serial No. 339,595; published Dec. 5, 1933. Class 15.
Monark Battery Company, Inc., Chicago, Ill. Storage batteries. 310,055; Feb. 13; Serial No. 342,397; published Nov. 28, 1933. Class 21.
Multibestos Company, North Cambridge, Mass. Transmission and brake linings, brake blocks, and clutch facings. 310,166–7; Feb. 13; Serial Nos. 342,234–5; published Nov. 28, 1933. Class 35.
Musicaletter Company. (See Shelton, William G., jr.)
Napa & Sonoma Wine Co., San Francisco, Calif. Cognac brandy. 310,124; Feb. 13; Serial No. 342,980; published Dec. 5, 1933. Class 49.
National Electric Products Corporation, Pittsburgh, Pa. Lubricant dressing. 310,225; Feb. 13; Serial No. 312,451; published Nov. 21, 1933. Class 6.
Nelson, Baker & Company, Detroit, Mich. Vulneraries. 97,265; renewed May 26, 1934.
Nemeth, Coleman, Mt. Morris, Mich. Vegetable relish. 310,264; Feb. 13; Serial No. 341,374; published Nov. 28, 1933. Class 46.
Nestone Radio Co., New York, N. Y. Kits for the construction of radio receiving sets. 310,101; Feb. 13; Serial No. 342,486; published Dec. 5, 1933. Class 21.
New York & New Jersey Lubricant Company, New York, N. Y. Oils, oil compositions, and greases. 310,104; Feb. 13; Serial No. 342,548; published Dec. 5, 1933. Class 15.
Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Nitrate of lime. 310,269; Feb. 13; Serial No. 341,300; published Dec. 5, 1933. Class 10.
Nyanza Color & Chemical Co., New York, N. Y. Liquid chemical product. 310,157; Feb. 13; Serial No. 341,930; published Dec. 5, 1933. Class 6.
Nyko Laboratories, Inc., Chicago, Ill. Brushes for teeth. 310,274; Feb. 13; Serial No. 341,661; published Dec. 5, 1933. Class 29.
Nyko Laboratories, Inc., Chicago, Ill. Denture adherent powder. 310,275; Feb. 13; Serial No. 341,662; published Nov. 28, 1933. Class 6.
Orth, Ph., Co., Milwaukee, Wis. Preparation used in preparing and flavoring cake, etc. 310,284; Feb. 13. Class 46.
Outlook Envelope Company, Chicago, Ill. Envelops. 41,751; renewed Dec. 29, 1933.
Pasquier-Desvignes et Cie, Société Anonyme, St. Lager, France. Wines. 310,129; Feb. 13; Serial No. 342,849; published Dec. 5, 1933. Class 47.
Paterson, John, & Co., Ltd., Glasgow, Scotland. Emulsifying agent. 310,237; Feb. 13; Serial No. 332,545; published Nov. 21, 1933. Class 6.
Paul, Harry. (See Forrest, Hal.)
Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. 310,056; Feb. 13; Serial No. 342,402; published Nov. 21, 1933. Class 15.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. 310,082; Feb. 13; Serial No. 342,078; published Nov. 21, 1933. Class 15.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Oils and greases. 310,097; Feb. 13; Serial No. 342,951; published Dec. 5, 1933. Class 15.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. 310,111–12; Feb. 13; Serial Nos. 342,591–2; published Nov. 21, 1933. Class 15.
Pep Boys—Manny, Moe & Jaek, Philadelphia, Pa. High-pressure lubricants, motor lubricating oils, transmission and differential lubricants. 310,199; Feb. 13; Serial No. 341,802; published Nov. 21, 1933. Class 15.
Petrissans, Mme. née Charlotte Leneveux, Paris, France. Still and sparkling wines. 310,161; Feb. 13; Serial No. 341,899; published Dec. 5, 1933. Class 47.
Philadelphia Pure Rye Whiskey Distilling Company of Pennsylvania, Limited, Eddington, Pa. Whiskey. 310,118; Feb. 13; Serial No. 342,041; published Nov. 28, 1933. Class 49.
Phillips & Benjamin Company, The, Boston, Mass. Artificial denture cleansers. 310,067; Feb. 13; Serial No. 342,620; published Dec. 5, 1933. Class 4.
Physicians Supply Company, Inc., York, Pa. Sedative and hypnotic elixir. 310,289; Feb. 6. Class 6.
Plough, Inc., doing business as Craig's, Inc., Memphis, Tenn. Medicinal preparations. 310,290; Feb. 13. Class 6.
Plummer, W. A., M'f'g. Co., assignor to Ames Harris Neville Co., San Francisco, Calif. Water-containing vessels serving as coolers. 97,503; renewed June 9, 1934.
Porter, H. K., Inc., Everett, Mass. Wood-cutting tool. 310,125; Feb. 13; Serial No. 342,403; published Dec. 5, 1933. Class 23.
Prettyman, Edith E., Chicago, Ill. Magazine. 310,226; Feb. 13; Serial No. 322,203; published Nov. 21, 1933. Class 38.
Quigley Company, Inc., New York, N. Y. Monolithic furnace lining. 310,222; Feb. 13; Serial No. 336,098; published Nov. 21, 1933. Class 12.
Quigley Company, Inc., New York, N. Y. Monolithic furnace lining. 310,223; Feb. 13; Serial No. 336,096; published Nov. 21, 1933. Class 12.
Quinton, George, Easton, Pa., doing business as Easton Sales and Distributing Company, Chicago, Ill. Bay rum, boric acid solution, castor oil, etc. 310,213; Feb. 13; Serial No. 338,792; published Nov. 28, 1933. Class 6.
Reilly, Frank C., New York, N. Y. Whisky. 310,074; Feb. 13; Serial No. 342,112; published Dec. 5, 1933. Class 49.
Rider, Preston, Packing Company, Campbellsburg, Ind. Canned vegetables, purées, and soups. 310,286; Feb. 13. Class 46.
Rids Glare Lens Co., The. (See Leland, Charles, assignor.)
Rowen, Joseph, Brooklyn, N. Y. Preparation for relief of headache, neuralgia, and pains. 310,255; Feb. 13; Serial No. 340,201; published Nov. 28, 1933. Class 6.
Samson Cordage Works. (See Tolman, James P., assignor.)
Sandoz Chemical Works, Inc., New York, N. Y. Dyes. 310,090; Feb. 13; Serial No. 341,988; published Nov. 28, 1933. Class 6.
Sandoz Chemical Works, Inc., New York, N. Y. Pharmaceutical preparation. 310,092; Feb. 13; Serial No. 341,987; published Nov. 28, 1933. Class 6.
Sandoz Chemical Works, Inc., New York, N. Y. Gloss-removing compound. 310,162; Feb. 13; Serial No. 342,766; published Dec. 5, 1933. Class 6.
Scheib, Louis, doing business as Hebics Co., New York, N. Y. Preparation to relieve itching, chafing, etc. 310,195; Feb. 13; Serial No. 341,700; published Nov. 21, 1933. Class 6.
Scheib, Louis, doing business as Hebics Co., New York, N. Y. Preparation for the skin to relieve itching, burns, etc. 310,207; Feb. 13; Serial No. 341,629; published Nov. 21, 1933. Class 6.
Schein Brothers, Inc., New York, N. Y. Jewelry. 310,126; Feb. 13; Serial No. 342,406; published Dec. 5, 1933. Class 28.
Schein Brothers, Inc., New York, N. Y. Jewelry. 310,407; Feb. 13; Serial No. 342,407; published Dec. 5, 1933. Class 28.
Schliemann Companies, Inc., New York, N. Y. Oils. 310,064; Feb. 13; Serial No. 342,670; published Dec. 5, 1933. Class 15.
Schultheiss-Patzenhofer Brauerei-Aktiengesellschaft, Berlin, Germany. Malt beverages. 310,232; Feb. 13; Serial No. 337,400; published Dec. 5, 1933. Class 48.
Scott, Walter E., Rocky River, Ohio. Illustrated stories in a continuing series in newspapers. 310,103; Feb. 13; Serial No. 342,456; published Nov. 28, 1933. Class 38.
Selig Company, The. (See Fulton Bag & Cotton Mills, assignor.)
Shelton, William G., jr., doing business as Musicaletter Company, St. Louis, Mo. Radio Antennæ. 310,174; Feb. 13; Serial No. 342,202; published Dec. 5, 1933. Class 21.
Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides. 310,083; Feb. 13; Serial No. 342,080; published Nov. 28, 1933. Class 6.
Shor, Harry N., Philadelphia, Pa. Artificial teeth and dental plates. 310,218; Feb. 13; Serial No. 336,965; published Dec. 5, 1933. Class 44.
Silver Knight Ginger Ale Co., The. (See Giering, J. F., Bottling Co., The.)
Smith, James A., New York, N. Y. Mate tea. 310,110; Feb. 13; Serial No. 342,594; published Dec. 5, 1933. Class 46.
Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal preparation. 310,216; Feb. 13; Serial No. 336,916; published Dec. 5, 1933. Class 6.
Socony-Vacuum Specialties, Inc., New York, N. Y. Gasoline, oils, and greases, etc. 310,198; Feb. 13; Serial No. 341,777; published Nov. 28, 1933. Class 15.
Solnol Corporation, Providence, R. I. Textile oils. 310,257; Feb. 13; Serial No. 341,561; published Nov. 21, 1933. Class 6.
Speare's, Alden, Sons Co., The, Cambridge, Mass. Laundry bluing. 310,282; Feb. 13. Class 6.
Speciale, Mariatta, doing business as Aridus Products, Brooklyn, N. Y. Nourishing cream. 310,061; Feb. 13; Serial No. 342,709; published Dec. 5, 1933. Class 6.
Spielberger, Sigmund, New York, N. Y. Dresses. 310,109; Feb. 13; Serial No. 342,595; published Dec. 5, 1933. Class 39.
Springvale Wood Working Co., Inc., Sanford and Springvale, Maine. Sewing cabinet, mending basket, magazine rack, and smoke stand combination. 310,119; Feb. 13; Serial No. 342,048; published Nov. 28, 1933. Class 32.

Spurlock-Neal Co., assignor to McKesson-Berry-Martin Company, Nashville, Tenn. Remedy for catarrh, hay fever, and cold in the head. 98,208; renewed July 7, 1934.
Stagg, Geo. T., Co., The, Frankfort, Ky. Whisky, brandy, gin, etc. 310,100; Feb. 13; Serial No. 342,495; published Nov. 28, 1933. Class 49.
Stagg, Geo. T. Co., The, Frankfort, Ky. Whisky, brandy, gin, etc. 310,116; Feb. 13; Serial No. 342,555; published Nov. 28, 1933. Class 49.
Standard Brands Incorporated, New York, N. Y. Salad dressing and sandwich spread. 310,063; Feb. 13; Serial No. 342,673; published Dec. 5, 1933. Class 46.
Standard Brands Incorporated, New York, N. Y. Yeast. 310,240; Feb. 13; Serial No. 330,437; published Dec. 5, 1933. Class 46.
Standard Sanitary Manufacturing Company, as assignee of The Great Western Pottery Co., Kokomo, Ind., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Water-closet bowls and tanks. 97,239; renewed May 26, 1934.
Steelcraft Tool Co., New York, N. Y. Machine and hand tools. 310,285; Feb. 13. Class 23.
Stoddard, G. S., & Co., Inc., New York, N. Y. Medicinal tablets. 310,288; Feb. 13. Class 6.
Tait, Geo., & Sons, Inc., Norfolk, Va. Vegetable and flower seeds, bulbs, and plants. 310,258; Feb. 13; Serial No. 341,534; published Dec. 5, 1933. Class 1.
Taylor, Walter, doing business as The Taylor Wine Company, Hammondsport, N. Y. Wines. 310,200; Feb. 13; Serial No. 341,816; published Dec. 5, 1933. Class 47.
Therapy Laboratories. (See United Laboratories, Ltd.)
Thorer & Company, Leipzig, Germany. Dyed skins. 310,279; Feb. 13. Class 1.
Tolman, James P., West Newton, Mass., assignor to Samson Cordage Works, Boston, Mass. Cords, lines, twines, and ropes. 11,210; rerenewed May 10, 1934.
Trieste Importing Co. Inc., New York, N. Y. Vegetables, fish, olive oils. 310,212; Feb. 13; Serial No. 338,704; published Nov. 28, 1933. Class 46.
Tubbs, Chapin F., Calistoga, Calif. Wines. 310,146; Feb. 13; Serial No. 342,825; published Dec. 5, 1933. Class 47.
Tune-O-Matic Radio Co. (See Mandel, Louis.)
United Distillers Corporation, New York, N. Y. Brandy, gin whisky, etc. 310,099; Feb. 13; Serial No. 342,497; published Nov. 28, 1933. Class 49.
United Elastic Corporation, Easthampton, Mass. Insulated electric conductor cords. 310,214; Feb. 13; Serial No. 336,699; published Nov. 28, 1933. Class 21.
United Feature Syndicate, Inc., New York, N. Y. Comic strip. 310,073; Feb. 13; Serial No. 342,145; published Nov. 28, 1933. Class 38.
United Laboratories, Ltd., doing business as Therapy Laboratories, Pasadena, Calif. Digestant tablet. 310,188; Feb. 13; Serial No. 340,066; published Nov. 28, 1933. Class 6.
Van Arsdale, M. G., Inc., New York, N. Y. Underwear. 310,050; Feb. 13; Serial No. 342,369; published Dec. 5, 1933. Class 39.
Van Dulken Weiland & Co's Export Distilleerderij N. V., Schiedam, Netherlands. Gin. 310,185; Feb. 13; Serial No. 310,185; published Nov. 21, 1933. Class 49.
Van Raalte Company, New York, N. Y. Knitted underwear. 310,088; Feb. 13; Serial No. 341,993; published Dec. 5, 1933. Class 39.
Van Vechten, William W., Rochester, N. Y. Rye and wheat bread flour. 95,238; renewed Feb. 3, 1934.
Vapor-Gas Crystals Co., Sharpsburg, Pa. Granular chemical composition for cleaning rugs and carpets, moth-proof composition, deodorizer, etc. 310,238; Feb. 13; Serial No. 335,374; published Dec. 5, 1933. Class 6.
Victor Brewing Company, The, Jeannette, Pa. Malt beverages. 310,147–8; Feb. 13; Serial Nos. 342,827–8; published Dec. 5, 1933. Class 48.
Vista Toy Company. (See Flannery, John L.)
Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Lard, ham, bacon, and scrapple. 95,723; renewed Mar. 3, 1934.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Oils. 310,062; Feb. 13; Serial No. 342,681; published Dec. 5, 1933. Class 15.
Warne, William, and Company Limited, Barking, England. Elastic threads of rubber. 310,139; Feb. 13; Serial No. 342,247; published Dec. 5, 1933. Class 43.
Washington Post Publishing Company, The, Washington, D. C. Chart, table, and/or column appearing regularly except Sundays, in "The Washington Post". 310,081; Feb. 13; Serial No. 342,087; published Nov. 28, 1933. Class 38.
Weller, W. L., & Sons, Louisville, Ky. Whiskies. 310,078–9; Feb. 13; Serial Nos. 342,091–2; published Dec. 5, 1933. Class 49.
Weller, W. L., & Sons, Louisville, Ky. Whiskies. 310,080; Feb. 13; Serial No. 342,088; published Dec. 5, 1933. Class 49.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric motors. 310,175; Feb. 13; Serial No. 342,207; published Nov. 28, 1933. Class 21.
Weston, Duncan, & Son. (See Wine & Spirit Vaults Limited.)
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental varnish and thinner. 310,235; Feb. 13; Serial No. 335,757; published Dec. 5, 1933. Class 44.
White Horse Distillers, Limited, Glasgow, Scotland. Scotch whisky. 310,140; Feb. 13; Serial No. 342,250; published Nov. 28, 1933. Class 49.
Wiglesworth, William G., doing business as The Wiglesworth Bros. Co., Cynthiana, Ky. Whiskey. 310,247; Feb. 13; Serial No. 340,854; published Nov. 21, 1933. Class 49.
Williamsville Buff Mfg. Co., Danielson, Conn. Buffing cloth, discs, and wheels, and sections thereof. 310,192; Feb. 13; Serial No. 334,170; published Dec. 5, 1933. Class 4.
Willson, Edward A., doing business as Grafo Lubricating Company, Sharon, Pa. Lubricating oil compounds. 310,077; Feb. 13; Serial No. 342,094; published Nov. 28, 1933. Class 15.
Windsor-Lloyd Products, Inc., Wilmington, Del. Ignition coils, cable kits, timers, etc. 310,121; Feb. 13; Serial No. 342 052; published Dec. 5, 1933. Class 21.
Windsor-Lloyd Products, Inc., doing business as Booster Chemical & Engineering Co., Baltimore, Md. Oils and greases. 310,136; Feb. 13; Serial No. 342,328; published Dec. 5, 1933. Class 15.
Wine & Spirit Vaults Limited, London, England. Rum and other potable distilled liquors. 310,120; Feb. 13; Serial No. 342,051; published Dec. 5, 1933. Class 49.
Wine & Spirit Vaults Limited, doing business as Duncan Weston & Son, London, England. Whisky and other potable distilled liquors. 310,181; Feb. 13; Serial No. 339,374; published Nov. 21, 1933. Class 49.
Wollborg, Richard H., Warren Township, Mich. Stuffed toy figure. 310,051; Feb. 13; Serial No. 342,371; published Dec. 5, 1933. Class 22.
Worcester Salt Co., New York, N. Y. Ice cream salt. 310,203; Feb. 13; Serial No. 341,849; published Dec. 5, 1933. Class 6.
Wurlitzer, Rudolph, Manufacturing Company, The, North Tonawanda, N. Y. Laundry washing machines, clothes wringers, and mangles. 310,283; Feb. 13. Class 24.
Wyckoff, Richard D., New York, N. Y. Periodicals. 310,046; Feb. 13; Serial No. 342,419; published Nov. 28, 1933. Class 38.
Wyeth, John, and Brother Incorporated, Philadelphia, Pa. Eye lotions and washes, and antiseptics. 310,132–3; Feb. 13; Serial Nos. 342,296–7; published Dec. 5, 1933. Class 6.
Wyeth, John, and Brother Incorporated, Philadelphia, Pa. Hemorrhoidal suppositories. 310,134; Feb. 13; Serial No. 342,298; published Dec. 5, 1933. Class 6.
Wyeth, John, and Brother Incorporated, Philadelphia, Pa. Digestant. 310,135; Feb. 13; Serial No. 342,300; published Dec. 5, 1933. Class 6.
Yale Drug Co., Inc., New York, N. Y. Razor blades. 310,052; Feb. 13; Serial No. 342,372; published Nov. 28, 1933. Class 23.
Zeiss, Carl, Jena, Germany. Photographic objectives. 310,227; Feb. 13; Serial No. 329,973; published Dec. 5, 1933. Class 26.
Zeiss, Carl, Jena, Germany. Lenses and frames for eyeglasses. 310,236; Feb. 13; Serial No. 330,733; published Dec. 5, 1933. Class 26.
Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Cellulose, chemical pulp, pitch, etc. 310,182; Feb. 13; Serial No. 339,482; published Dec. 5, 1933. Class 1.
Zimmerman, Harry, Indiana Harbor, Ind. Novelty device for viewing films. 310,191; Feb. 13; Serial No. 340,146; published Nov. 28, 1933. Class 26.

LIST OF REGISTRANTS OF LABELS

Bub, Peter. (See Miller, Lena, executrix.)
Chateau Products, Inc., St. Louis, Mo. Old Melody. For Whiskey. 43,214; Feb. 13.
Cohen, S. J., Baltimore, Md. A Selection by Fashion Congress of America. For Apparel and Accessories. 43,215; Feb. 13.
Collins, J. N., Company, Philadelphia, Pa. Butter Scotch. For Butter Scotch Candy. 43,216; Feb. 13.
Dermo Products Company, Hollywood, Calif. Dermo. For a Preparation for Rejuvenating the Hair and Treating the Scalp. 43,217; Feb. 13.
Gallagher & Burton, Inc., Philadelphia, Pa. G & B Cabinet. For Rye Blend Whiskey. 43,218; Feb. 13.
Gallagher & Burton, Inc., Philadelphia, Pa. G & B Sportsman. For Scotch Blend Whiskey. 43,219; Feb. 13.
Gallagher & Burton, Inc., Philadelphia, Pa. G & B Imperial. For Rye Blend Whiskey. 43,220; Feb. 13.
Goudey Gum Co., The, Boston, Mass. Indian. For Chewing Gum. 43,221; Feb. 13.
Grant, J. H. Robert, New York, N. Y. Glendor Liquor. For Liquor. 43,222; Feb. 13.
Griffith Laboratories, Inc., The, Chicago, Ill. Griffith's Patented Process Cure. For a Powdered Salt Mass for Treating Meats. 43,223; Feb. 13.

Griffith Laboratories, Inc., The, Chicago, Ill. Prague Salt Powder. For Powdered Salt Mass for Treating Meats. 43,224; Feb. 13.

Kellogg Company, Battle Creek, Mich. Kellogg's Rice Krispies—Tommy Tucker's Birthday Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. 43,225; Feb. 13.

Kellogg Company, Battle Creek, Mich. Kellogg's Rice Krispies—Simple Simon Told By Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. 43,226; Feb. 13.

Kellogg Company, Battle Creek, Mich. Kellogg's Rice Krispies—Jack Be Nimble Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. 43,227; Feb. 13.

Kellogg Company, Battle Creek, Mich. Kellogg's Rice Krispies—Old Mother Hubbard Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. 43,228; Feb. 13.

Kellogg Company, Battle Creek, Mich. Kellogg's Rice Krispies—Old King Cole Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. 43,229; Feb. 13.

Kellogg Company, Battle Creek, Mich. Kellogg's Rice Krispies—Tom The Piper's Son Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. 43,230; Feb. 13.

Lathrop, Dorothy, Products Company, Rochester, N. Y. Dorothy Lathrop Purity Brand Food Coloring. For Food Coloring. 43,231; Feb. 13.

Mason, Ralph L., Newark, Md. Sea View Brand. For Canned Tomatoes. 43,232; Feb. 13.

Miller, Lena, executrix of Peter Bub, deceased, doing business as Peter Bub Brewery, Winona, Minn. German style. For Beer. 43,233; Feb. 13.

Mount Rose Distilling Co., Trenton, N. J. Mount Rose. For Dry Gin. 43,234; Feb. 13.

National Brewing Co., The, Baltimore, Md. National Laker Beer. For Lager Beer. 43,235; Feb. 13.

Neumann, Martin, New York, N. Y. Coffee. For Coffee. 43,236; Feb. 13.

Parke, L. H., Company, Philadelphia, Pa. Parke's Gold Camel Tea. For Tea. 43,237; Feb. 13.

Reefer-Galler, Inc., New York, N. Y. Reefer's Crystals Kills Moths—For Use in Vacuum Cleaners. For a Chemical Crystal Preparation for the Extermination of Moths and Moth Worms, for Use in Vacuum Cleaners. 43,241; Feb. 13.

Reefer-Galler, Inc., New York, N. Y. Reefer's SnoWhite Crystals Kills Moths and Moth Worms. For a Chemical Crystal Preparation for the Extermination of Moths and Moth Worms. 43,242; Feb. 13.

Reefer-Galler, Inc., New York, N. Y. Reefer's Injecto-O—Prevents and Kills Moths Inside Upholstered Furniture. For a Liquid Chemical Preparation for the Extermination of Moths and Moth Worms. 43,243; Feb. 13.

Regal Products Co., New York, N. Y. Regal Crystals Kills Moths—For Use in Vacuum Cleaners. For a Chemical Crystal Preparation as a Protection Against Moths for Use in Vacuum Cleaners. 43,238; Feb. 13.

Regal Products Co., New York, N. Y. Regal Spray Kills Moths, Flies, Mosquitoes, Ants, Roaches. For a Chemical Liquid Preparation for the Extermination of Moths and Other Household Pests. 43,239; Feb. 13.

Regal Products Co., New York, N. Y. Regal White Crystals Kills Moths and Moth Worms. For a Chemical Crystal Preparation for the Killing of Moths, Moth Eggs and Larvæ. 43,240; Feb. 13.

Royal Distillers, Ltd., Chicago, Ill. Fells London Original Dry Gin. For Dry Gin. 43,244; Feb. 13.

Schein Brothers, Inc., New York, N. Y. Moonglo Pearls. Nature's Only Rival. For Pearls. 43,245; Feb. 13.

Thomson, J. G., & Co. Ltd., Edinburgh, Scotland. "Deer-Stalker" Special Liqueur. For Whisky. 43,246; Feb. 13.

Thomson, J. G., & Co. Ltd., Edinburgh, Scotland. Thomson's Clan Macgregor Fine Old Scotch Whisky—The Clan Blends. For Whisky. 43,247; Feb. 13.

Tidewater Beverage Dist. Co., South Norfolk, Va. Old Virginia. For Beer. 43,248; Feb. 13.

Tidewater Beverage Dist. Co., South Norfolk, Va. B and H. For Beer. 43,249; Feb. 13.

Trade Laboratories, Inc., The, Newark, N. J. Pearl-White Tooth Paste. For Tooth Paste. 43,250; Feb. 13.

Western Bakeries Corp., Ltd., Los Angeles, Calif. Butter-Cream. For Bread. 43,251; Feb. 13.

LIST OF REGISTRANTS OF PRINTS

Blodgett-Beckley Co., The, Toledo, Ohio. Old Master Coffee. For Coffee. 14,580; Feb. 13.

De Laval Separator Company, The, New York, N. Y. De Laval Cream Separators and Milkers. For Cream Separators and Milkers. 14,581; Feb. 13.

General Mills, Inc., Minneapolis, Minn. Free! $5,000.00 in Cash in This New Betty Crocker Cake Naming Contest! For Flour. 14,582; Feb. 13.

General Mills, Inc., Minneapolis, Minn. Babe Ruth—The Home-Run King. For Cereal Food. 14,583; Feb. 13.

General Mills, Inc., Minneapolis, Minn. Mother! Don't Force Your Child to Eat a Hot Cereal! For Cereal Food. 14,584; Feb. 13.

Hills Bros., San Francisco, Calif. A Grand Smash. For Coffee. 14,585; Feb. 13.

Hills Bros., San Francisco, Calif. After the Ball is Over. For Coffee. 14,586; Feb. 13.

Hills Bros., San Francisco, Calif. Give Him A Break. For Coffee. 14,587; Feb. 13.

Hills Bros., San Francisco, Calif. Rolls and Coffee. For Coffee. 14,588; Feb. 13.

Hills Bros., San Francisco, Calif. A Yes Man. For Coffee. 14,589; Feb. 13.

Hills Bros., San Francisco, Calif. Families Large and Small. For Coffee. 14,590; Feb. 13.

Hills Bros., San Francisco, Calif. Don't Bet on Women. For Coffee. 14,591; Feb. 13.

Hills Bros., San Francisco, Calif. Mary Went to Market. For Coffee. 14,592; Feb. 13.

Hills Bros., San Francisco, Calif. Whiskers for Santa. For Coffee. 14,593; Feb. 13.

Hills Bros., San Francisco, Calif. Carve Your Way to Success. For Coffee. 14,594; Feb. 13.

National Distillers Products Corporation, New York, N. Y. National Distillers. For Whiskey. 14,595; Feb. 13.

Ralston Purina Company, St. Louis, Mo. 50 Tons of Dog Chow Go to South Pole With Byrd! (Poster). For Dog Food. 14,596; Feb. 13.

Ralston Purina Company, St. Louis, Mo. Ask About the Purina Feeding and Management Program That Assures Dairy Profits. (Dairy Poster). For Dairy Feed. 14,597; Feb. 13.

Slesinger, Stephen, New York, N. Y. Tarzan. For Candy. 14,598; Feb. 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Cellulose, chemical pulp, pitch, etc. Zellstoffabrik Waldhof. 310,182; Feb. 13; Serial No. 339,182; published Dec. 5, 1933.

Raw materials consisting of clay used in oil-well drilling. Mid-Continent Mud Company. 310,260; Feb. 13; Serial No. 341,487; published Dec. 5, 1933.

Seeds, Agricultural and horticultural. Barteides Seed Company. 95,288; renewed Feb. 10, 1934.

Seeds, bulbs, and plants, Vegetable and flower. Geo. Tait & Sons, Inc. 310,258; Feb. 13; Serial No. 341,534; published Dec. 5, 1933.

Skins, Dyed. Thorer & Company. 310,279; Feb. 13.

CLASS 2

Compacts and vanities, Empty. D. Lisner & Co. 310,229; Feb. 13; Serial No. 337,194; published Dec. 5, 1933.

Vessels serving as coolers, Water-containing. W. A. Plummer M'f'g. Co. 97,503; renewed June 9, 1934.

CLASS 4

Abrasive paper and cloth. Manning Sand Paper Company. 97,430; renewed June 2, 1934.

Buffing cloth, disks, and wheels, and sections thereof. Williamsville Buff Mfg. Co. 310,192; Feb. 13; Serial No. 334,170; published Dec. 5, 1933.

Cleaning preparations, Dry. Griffin Manufacturing Co. 310,170; Feb. 13; Serial No. 342,156; published Dec. 5, 1933.

Cleansers, Artificial denture. Phillips & Benjamin Company. 310,067; Feb. 13; Serial No. 342,620; published Dec. 5, 1933.

CLASS 6

Antiasthmatic preparation. S. P. Maruny. 310,254; Feb. 13; Serial No. 340,268; published Nov. 28, 1933.

Astringents, bleach creams, rouges, etc. Bourjois, Inc. 310,211; Feb. 13; Serial No. 338,479; published Nov. 21, 1933.

Bay rum, boric acid solution, castor oil, etc., G. Quinton. 310,213; Feb. 13; Serial No. 338,792; published Nov. 28, 1933.

Bluing, Laundry. Alden Speare's Sons Co. 310,282; Feb. 13.

Chemical composition for cleaning rugs and carpets, moth-proof composition, deodorizer, etc., Granular. Vapor-Gas Crystals Co. 310,238; Feb. 13; Serial No. 335,374; published Dec. 5, 1933.

Chemical product, Liquid. Nyanza Color & Chemical Co. 310,157; Feb. 13; Serial No. 341,930; published Dec. 5, 1933.

Cologne, talcum powder, perfume, etc. F. J. M. Miles. 310,248; Feb. 13; Serial No. 340,749; published Nov. 21, 1933.

Cream, Nourishing. M. Speciale. 310,061; Feb. 13; Serial No. 342,709; published Dec. 5, 1933.

Dies. Sandoz Chemical Works, Inc. 310,090; Feb. 13; Serial No. 341,988; published Nov. 28, 1933.

Digestant. John Wyeth and Brother Incorporated 310,135; Feb. 13; Serial No. 342,300; published Dec. 5, 1933.

Digestant tablets. United Laboratories, Ltd. 310,188; Feb. 13; Serial No. 340,066; published Nov. 28, 1933.

Disinfectant. Fulton Bag & Cotton Mills. 97,414; renewed June 2, 1934.

Emulsifying agent. John Paterson & Co. 310,237; Feb. 13; Serial No. 332,545; published Nov. 21, 1933.

Etching fluids. Metalink Co. 310,102; Feb. 13; Serial No. 342,484; published Dec. 5, 1933.

Gloss removing compound. Sandoz Chemical Works, Inc. 310,162; Feb. 13; Serial No. 342,766; published Dec. 5, 1933.

Insecticides. Sherwin-Williams Company. 310,083; Feb. 13; Serial No. 342,080; published Nov. 28, 1933.

Laxative, Saline. A. Hahn. 310,221; Feb. 13; Serial No. 336,341; published Nov. 21, 1933.

Laxatives. W. E. Derry, M. D., Inc. 94,548; renewed Dec. 16, 1933.

Laxatives. Foster-Milburn Company. 310,201; Feb. 13; Serial No. 341,821; published Nov. 28, 1933.

Liniment. C. E. Miller. 310,272; Feb. 13; Serial No. 341,028; published Nov. 28, 1933.

Liquid compositions. Eastman Kodak Company. 310,219; Feb. 13; Serial No. 336,641; published Nov. 21, 1933.

Lotion, Eye. Sebastian Contini Co. 310,066; Feb. 13; Serial No. 342,624; published Nov. 28, 1933.

Lotions and washes, and antiseptics, Eye. John Wyeth and Brother Incorporated. 310,132–3; Feb. 13; Serial Nos. 342,296–7; published Dec. 5, 1933.

Lubricant dressing. National Electric Products Corporation. 310,225; Feb. 13; Serial No. 312,451; published Nov. 21, 1933.

Medicinal preparation. Smith, Kline & French Laboratories. 310,216; Feb. 13; Serial No. 336,916; published Dec. 5, 1933.

Medicinal preparations. Plough, Inc. 310,290; Feb. 13.

Medicinal tablet. G. S. Stoddard & Co. 310,288; Feb. 13.

Medicine. Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft. 310,194; Feb. 13; Serial No. 341,697; published Nov. 28, 1933.

Nail oil, Finger. B. C. Goldberg. 310,249; Feb. 13; Serial No. 340,683; published Nov. 21, 1933.

Oil for the skin, Facial. F. Chevalier. 310,273; Feb. 13; Serial No. 341,645; published Nov. 21, 1933.

Oils, Textile. Soluol Corporation. 310,257; Feb. 13; Serial No. 341,561; published Nov. 21, 1933.

Perfume oils. Felton Chemical Company. 310,095; Feb. 13; Serial No. 341,954; published Nov. 28, 1933.

Perfume, toilet water, and face and dusting powder. Guy T. Gibson, Inc. 310,186; Feb. 13; Serial No. 339,863; published Dec. 5, 1933.

Pharmaceutical preparation. Sandoz Chemical Works, Inc. 310,092; Feb. 13; Serial No. 341,987; published Nov. 28, 1933.

Powder, Dental adherent. Nyko Laboratories, Inc. 310,275; Feb. 13; Serial No. 341,662; published Nov. 28, 1933.

Powder, Foot. G. E. Curd. 98,043; renewed June 30, 1934.

Preparation for relief of headache, neuralgia, and pains caused by cold or exposure. J. Rowen. 310,255; Feb. 13; Serial No. 340,201; published Nov. 28, 1933.

Preparation for the skin to relieve itching, burns, etc. L. Scheib. 310,207; Feb. 13; Serial No. 341,699; published Nov. 21, 1933.

Preparation for use in the treatment of stomach complaints. A. G. Castello. 310,209; Feb. 13; Serial No. 338,074; published Nov. 21, 1933.

Preparation to relieve itching, chafing, etc. L. Scheib. 310,195; Feb. 13; Serial No. 341,700; published Nov. 21, 1933.

Remedy for catarrh, hay fever, and cold in the head. Spurlock-Neal Co. 98,208; renewed July 7, 1934.

Salt, Ice-cream. Worcester Salt Co. 310,203; Feb. 13; Serial No. 341,849; published Dec. 5, 1933.

Salve and ointment and preparation for treating wounds, cuts, boils, etc. E. B. Masheter. 310,265; Feb. 13; Serial No. 341,606; published Nov. 21, 1933.

Salve, Foot. L. Goodman. 310,190; Feb. 13; Serial No. 340,119; published Nov. 21, 1933.

Sedative and hypnotic elixir. Physicians Supply Company. 310,289; Feb. 13.

Sulphur. California Spray-Chemical Corporation. 310,204; Feb. 13; Serial No. 341,857; published Nov. 28, 1933.

Suppositories, Hemorrhoidal. John Wyeth and Brother Incorporated. 310,134; Feb. 13; Serial No. 342,298; published Dec. 5, 1933.

Vulneraries. Nelson, Baker & Company. 97,265; renewed May 26, 1934.

Waterproofing preparation for ignition systems. Fan-Vac Manufacturing Company. 310,281; Feb. 13.

Water softening and conditioning chemical. Buromin Company. 310,231; Feb. 13; Serial No. 337,383; published Dec. 5, 1933.

CLASS 7

Cords, lines, twines and ropes. J. P. Tolman. 11,210; re-renewed May 10, 1934.

CLASS 10

Nitrate of lime. Norsk Hydro-Elektrisk Kvælstofaktieselskab. 310,269; Feb. 13; Serial No. 341,300; published Dec. 5, 1933.

CLASS 11

Ink colors, Show card. Ault & Wiborg Carbon & Ribbon Co. 310,160; Feb. 13; Serial No. 341,910; published Dec. 5, 1933.

CLASS 12

Lining, Monolithic furnace. Quigley Company. 310,222; Feb. 13; Serial No. 336,098; published Nov. 21, 1933.

Lining, Monolithic furnace. Quigley Company. 310,223; Feb. 13; Serial No. 336,096; published Nov. 21, 1933.

Materials, Pavement. L. R. Mackenzie Incorporated. 310,251; Feb. 13; Serial No. 340,480; published Nov. 21, 1933.

CLASS 13

Bowls and tanks, Water-closet. Standard Sanitary Manufacturing Company. 97,239; renewed May 26, 1934.

Hangers for ties. Home Facilities, Inc. 310,228; Feb. 13; Serial No. 336,985; published July 18, 1933.

Hollow ware. Corcoran-Brown Lamp Company. 310,220; Feb. 13; Serial No. 336,499; published Dec. 5, 1933.

Pipefittings and metal valves. General Fire Extinguisher Company. 97,327; renewed June 2, 1934.

Utensils, Household and kitchen. Manufacture Metallurgique de Tournus. 310,068; Feb. 13; Serial No. 342,616; published Dec. 5, 1933.

CLASS 15

Gasoline. Bragg Petroleum Corporation. 310,107; Feb. 13; Serial No. 342,026; published Nov. 21, 1933.

Gasoline and lubricating oils. H. W. Miller. 310,184; Feb. 13; Serial No. 339,595; published Dec. 5, 1933.

Gasoline, blended gasoline, oils and greases, etc. Socony-Vacuum Specialties, Inc. 310,198; Feb. 13; Serial No. 341,777; published Nov. 28, 1933.

Lubricants, motor lubricating oils, transmission and differential lubricants, High-pressure. Pep-Boys—Manny, Moe & Jack. 310,199; Feb. 13; Serial No. 341,802; published Nov. 21, 1933.

Oil compounds, Lubricating. E. A. Willson. 310,077; Feb. 13; Serial No. 342,094; published Nov. 28, 1933.

Oils. Freedom Oil Works Company. 310,145; Feb. 13; Serial No. 342,800; published Dec. 5, 1933.

Oils. Intercity Oil Company. 310,154; Feb. 13; Serial No. 342,910; published Dec. 5, 1933.

Oils. Schliemann Companies. 310,064; Feb. 13; Serial No. 342,670; published Dec. 5, 1933.

Oils. John Wanamaker Philadelphia. 310,062; Feb. 13; Serial No. 342,681; published Dec. 5, 1933.

Oils and greases. H. F. Adams. 310,130; Feb. 13; Serial No. 342,862; published Dec. 5, 1933.

Oils and greases. Pennsylvania Lubricating Company. 310,097; Feb. 13; Serial No. 342,951; published Dec. 5, 1933.

Oils and greases. Windsor-Lloyd Products, Inc. 310,136; Feb. 13; Serial No. 342,328; published Dec. 5, 1933.

Oils and greases, Lubricating. Calumet Refining Co. 310,233; Feb. 13; Serial No. 337,599; published Nov. 28, 1933.

Oils and greases, Lubricating. Marquette Petroleum Products, Inc. 310,241; Feb. 13; Serial No. 308,118; published Nov. 21, 1933.

Oils and greases, Lubricating. Pennsylvania Lubricating Company. 310,056; Feb. 13; Serial No. 342,402; published Nov. 21, 1933.

Oils and greases, Lubricating. Pennsylvania Lubricating Company. 310,082; Feb. 13; Serial No. 342,078; published Nov. 21, 1933.

Oils and greases, Lubricating. Pennsylvania Lubricating Company. 310,111–12; Feb. 13; Serial Nos. 342,591–2; published Nov. 21, 1933.

Oils, oil compositions, and greases. New York & New Jersey Lubricant Company. 310,104; Feb. 13; Serial No. 342,548; published Dec. 5, 1933.

CLASS 19

Brakes and brake systems and parts thereof. Bragg-Kliesrath Corporation. 310,208; Feb. 13; Serial No. 338,068; published Dec. 5, 1933.

CLASS 21

Batteries and spark plugs, Storage. Goodyear Tire & Rubber Company. 310,205; Feb. 13; Serial No. 341,866; published Nov. 21, 1933.

Batteries, Storage. Monark Battery Company. 310,055; Feb. 13; Serial No. 342,397; published Nov. 28, 1933.

Coils, cable kits, timers, etc., Ignition. Windsor-Lloyd Products, Inc. 310,121; Feb. 13; Serial No. 342,052; published Dec. 5, 1933.

Electric automobile lamps and parts thereof. C. Leland. 310,215; Feb. 13; Serial No. 336,874; published Nov. 28, 1933.

Electric conductor cords, Insulated. United Elastic Corporation. 310,214; Feb. 13; Serial No. 336,699; published Nov. 28, 1933.

Electric motors. Westinghouse Electric & Manufacturing Company. 310,175; Feb. 13; Serial No. 342,207; published Nov. 28, 1933.

Electrical conduit. Goodyear Tire & Rubber Company. 310,267; Feb. 13; Serial No. 341,598; published Nov. 21, 1933.
Electrical heaters. Frank Adam Electric Co. 310,268; Feb. 13; Serial No. 341,317; published Nov. 21, 1933.
Kits for the construction of radio receiving sets. Nestone Radio Co. 310,101; Feb. 13; Serial No. 342,486; published Dec. 5, 1933.
Radio antennæ. W. G. Shelton, jr. 310,174; Feb. 13; Serial No. 342,202; published Dec. 5, 1933.
Radio tuning dials, radio receiving sets and parts. L. Mandel. 310,117; Feb. 13; Serial No. 342,036; published Nov. 28, 1933.

CLASS 22

Cards, Playing. M. Barkentine. 310,089; Feb. 13; Serial No. 341,991; published Dec. 5, 1933.
Toy buildings. J. L. Flannery. 310,159; Feb. 13; Serial No. 341,919; published Dec. 5, 1933.
Toy figure, Stuffed. R. H. Wollborg. 310,051; Feb. 13; Serial No. 342,371; published Dec. 5, 1933.

CLASS 23

Cutters, Glass. Jennings Company. 310,187; Feb. 13; Serial No. 339,938; published Dec. 5, 1933.
Mixers, Mechanical feed. Brower Manufacturing Company. 310,263; Feb. 13; Serial No. 341,384; published Dec. 5, 1933.
Razor blades. Yale Drug Co. 310,052; Feb. 13; Serial No. 342,372; published Nov. 28, 1933.
Razors and blades, Safety. Apris Corporation. 310,138; Feb. 13; Serial No. 342,332; published Nov. 28, 1933.
Razors, Safety. W. H. Black. 310,230; Feb. 13; Serial No. 337,246; published Dec. 5, 1933.
Tools, Machine and hand. Steelcraft Tool Co. 310,285; Feb. 13.
Tools, Oil well. Byron Jackson Co. 310,177; Feb. 13; Serial No. 338,831; published Nov. 28, 1933.
Wood-cutting tool. H. K. Porter, Inc. 310,125; Feb. 13; Serial No. 342,403; published Dec. 5, 1933.

CLASS 24

Washing machines, clothes wringers, and mangles. Laundry. Rudolph Wurlitzer Manufacturing Company. 310,283; Feb. 13.

CLASS 26

Films, Novelty device for viewing. H. Zimmerman. 310,191; Feb. 13; Serial No. 340,146; published Nov. 28, 1933.
Glasses, telescopes, objective lenses, etc., Field. Bausch & Lomb Optical Company. 310,108; Feb. 13; Serial No. 342,025; published Dec. 5, 1933.
Lenses and frames for eyeglasses. Carl Zeiss. 310,236; Feb. 13; Serial No. 330,733; published Dec. 5, 1933.
Measuring faucets. Beerometer Co. 310,098; Feb. 13; Serial No. 342,516; published Dec. 5, 1933.
Photographic objectives. Carl Zeiss. 310,227; Feb. 13; Serial No. 329,973; published Dec. 5, 1933.

CLASS 28

Jewelry. Schein Brothers, Inc. 310,045; Feb. 13; Serial No. 342,407; published Dec. 5, 1933.
Jewelry. Schein Brothers, Inc. 310,126; Feb. 13; Serial No. 342,406; published Dec. 5, 1933.
Tableware and silver-plated ornamental ware. Friedman Silver Co. 310,252; Feb. 13; Serial No. 340,426; published Nov. 28, 1933.

CLASS 29

Brushes for teeth. Nyko Laboratories, Inc. 310,274; Feb. 13; Serial No. 341,661; published Dec. 5, 1933.
Cleaning devices, Window. C. R. Davidson. 310,244; Feb. 13; Serial No. 342,263; published Dec. 5, 1933.
Mops, Polish. W. T. Grant Company. 310,091; Feb. 13; Serial No. 341,960; published Dec. 5, 1933.

CLASS 32

Cabinet, mending basket, magazine rack, and smoke stand combination, Sewing. Springvale Wood Working Co. Inc. 310,119; Feb. 13; Serial No. 342,048; published Nov. 28, 1933.
Chairs, couches, rockers, etc., Upholstered. Frank S. Harden Co. 310,287; Feb. 13.
Covers, Made-up seat, stool, toilet-seat, and toilet-stool. Callaway Mills. 310,270; Feb. 13; Serial No. 341,190; published Nov. 28, 1933.

CLASS 34

Combustion chambers for boilers and furnaces. May Oil Burner Corporation. 310,173; Feb. 13; Serial No. 342,180; published Dec. 5, 1933.

CLASS 35

Kits, and auto tube patches, Auto repair. W. T. Grant Company. 310,094; Feb. 13; Serial No. 341,966; published Dec. 5, 1933.
Linings, brake blocks, and clutch facings, Transmission. Multibestos Company. 310,166–7; Feb. 13; Serial Nos. 342,234–5; published Nov. 28, 1933.

CLASS 36

Musical instruments and musical instrument repairs and supplies. Honeycombe & Son. 310,158; Feb. 13; Serial No. 341,923; published Nov. 21, 1933.

CLASS 37

Envelops. Outlook Envelope Company. 41,751; renewed Dec. 29, 1933.
Tags. Dennison Manufacturing Company. 94,616; renewed Dec. 23, 1933.

CLASS 38

Cartoons, Newspaper. H. Forrest. 310,243; Feb. 13; Serial No. 342,265; published Nov. 28, 1933.
Chart, table, and/or column appearing regularly, except Sundays, in "The Washington Post." Washington Post Publishing Company. 310,081; Feb. 13; Serial No. 342,087; published Nov. 28, 1933.
Comic Strip. United Feature Syndicate. 310,073; Feb. 13; Serial No. 342,145; published Nov. 28, 1933.
Magazine. Colonel Publishing Company. 310,271; Feb. 13; Serial No. 341,160; published Nov. 21, 1933.
Magazine. International Catholic Truth Society. 310,246; Feb. 13; Serial No. 340,878; published Nov. 28, 1933.
Magazine. E. E. Prettyman. 310,226; Feb. 13; Serial No. 322,203; published Nov. 21, 1933.
Magazines. Graphic Arts Corporation. 310,176; Feb. 13; Serial No. 342,217; published Nov. 21, 1933.
Periodicals. R. D. Wyckoff. 310,046; Feb. 13; Serial No. 342,419; published Nov. 28, 1933.
Publications. Hat Life, Inc. 310,171; Feb. 13; Serial No. 342,157; published Nov. 21, 1933.
Stories in a continuing series in newspapers, Illustrated. W. E. Scott. 310,103; Feb. 13; Serial No. 342,456; published Nov. 28, 1933.

CLASS 39

Caps. Eagle Knitting Mills. 96,655; renewed Apr. 28, 1934.
Dresses. S. Spielberger. 310,109; Feb. 13; Serial No. 342,595; published Dec. 5, 1933.
Rompers, creepers, boys' suits, etc. M. Citrin. 310,053; Feb. 13; Serial No. 342,387; published Dec. 5, 1933.
Shirts. S. Liebovitz & Sons, Inc. 310,196; Feb. 13; Serial No. 341,715; published Nov. 14, 1933.
Shirts, pajamas, underwear, etc. Frank I. Denison & Co. 310,054; Feb. 13; Serial No. 342,389; published Dec. 5, 1933.
Underwear. M. G. Van Arsdale, Inc. 310,050; Feb. 13; Serial No. 342,369; published Dec. 5, 1933.
Underwear, Knitted. Van Raalte Company. 310,088; Feb. 13; Serial No. 341,993; published Dec. 5, 1933.

CLASS 40

Labels, Fabric. R. Jaeger. 310,278; Feb. 13.
Patches and swatches. A. Davidson. 310,280; Feb. 13.

CLASS 43

Threads of rubber, Elastic. William Warne and Company Limited. 310,139; Feb. 13; Serial No. 342,247; published Dec. 5, 1933.
Yarns of cellulose. Courtaulds, Limited. 310,142; Feb. 13; Serial No. 342,260; published Dec. 5, 1933.

CLASS 44

Dental varnish and thinner. S. S. White Dental Manufacturing Company. 310,235; Feb. 13; Serial No. 335,757; published Dec. 5, 1933.
Manicuring scissors, nail files and nippers, and manicuring tweezers. J. A. Henckels, Inc. 310,277; Feb. 13; Serial No. 341,689; published Dec. 5, 1933.
Permanent wave machines, pads, curlers, etc., for permanent wave machines. E. Baum. 310,127; Feb. 13; Serial No. 342,833; published Dec. 5, 1933.
Teeth and dental plates, Artificial. H. N. Shor. 310,218; Feb. 13; Serial No. 336,965; published Dec. 5, 1933.

CLASS 45

Beverages, Maltless. Del Monico Wine and Spirit Corporation. 310,153; Feb. 13; Serial No. 342,899; published Dec. 5, 1933.

CLASS 46

Candy. Curtiss Candy Company. 310,217; Feb. 13; Serial No. 336,930; published Nov. 28, 1933.
Canned strained vegetable products. Fremont Canning Company. 310,224; Feb. 13; Serial No. 330,546; published Nov. 28, 1933.
Canned vegetables, purées, and soups. Preston Rider Packing Company. 310,286; Feb. 13.
Chocolate. Lamont, Corliss & Company. 310,210; Feb. 13; Serial No. 338,258; published Nov. 28, 1933.
Cones filled with ice cream. Farmstead, Inc. 310,202; Feb. 13; Serial No. 341,833; published Nov. 28, 1933.
Flour and buckwheat products, Buckwheat. Blodgett Milling Co. 97,115; renewed May 19, 1934.
Flour, Compound. Albers Bros. 95,192; renewed Feb. 3, 1934.
Flour, Rye and wheat bread. W. W. Van Vechten. 95,238; renewed Feb. 3, 1934.
Food products. A. Krause. 310,259; Feb. 13; Serial No. 341,518; Nov. 28, 1933.
Fruits, grapes, and vegetables, Fresh. J. D'Accardo. 310,143; Feb. 13; Serial No. 342,262; published Nov. 28, 1933.
Ice cream. Byers Ice Cream Company. 310,189; Feb. 13; Serial No. 340,110; published Nov. 28, 1933.

Lard, ham, bacon, and scrapple. F. G. Vogt & Sons, Incorporated. 95,723; renewed Mar. 3, 1934.
Mayonnaise dressing. R. Hellman. 96,884; renewed May 5, 1934.
Peanuts, Shelled. De Leon Peanut Company. 310,239; Feb. 13; Serial No. 330,040; published Nov. 28, 1933.
Preparation used in preparing and flavoring cake, etc. Ph. Orth Co. 310,284; Feb. 13.
Salad dressing and sandwich spread. Standard Brands Incorporated. 310,063; Feb. 13; Serial No. 342,673; published Dec. 5, 1933.
Tea, Mate. J. A. Smith. 310,110; Feb. 13; Serial No. 342,594; published Dec. 5, 1933.
Vegetable relish. C. Nemeth. 310,264; Feb. 13; Serial No. 341,374; published Nov. 28, 1933.
Vegetables, Especially prepared ready-to-cook. O. J. Beam. 310,291; Feb. 13.
Vegetables, fish, olive oils. Trieste Importing Co. Inc., 310,212; Feb. 13; Serial No. 338,704; published Nov. 28, 1933.
Yeast. Standard Brands Incorporated. 310,240; Feb. 13; Serial No. 330,437; published Dec. 5, 1933.

CLASS 47

Wines. Etablissements E. Bigeon Inc. 310,164–5; Feb. 13; Serial Nos. 342,744–5; published Dec. 5, 1933.
Wines. Fruit Industries, Ltd. 310,156; Feb. 13; Serial No. 342,946; published Dec. 5, 1933.
Wines. P. A. Larenaudie. 310,193; Feb. 13; Serial No. 341,690; published Dec. 5, 1933.
Wines. Pasquier-Desvignes et Cie., Société Anonyme. 310,129; Feb. 13; Serial No. 342,849; published Dec. 5, 1933.
Wines. Mme Petrissans. 310,161; Feb. 13; Serial No. 341,899; published Dec. 5, 1933.
Wines. W. Taylor. 310,200; Feb. 13; Serial No. 341,816; published Dec. 5, 1933.
Wines. C. F. Tubbs. 310,146; Feb. 13; Serial No. 342,825; published Dec. 5, 1933.
Wines, Champagne. J. Krug. 310,128; Feb. 13; Serial No. 342,844; published Dec. 5, 1933.

CLASS 48

Ale. Cataract Brewing Co., Inc., of Rochester, N. Y., Rochester, N. Y. 310,141; Feb. 13; Serial No. 342,256; published Dec. 5, 1933.
Beer. Aktieselskabet de Forenede Dryggerier. 310,178; Feb. 13; Serial No. 339,139; published Dec. 5, 1933.
Beer and ale. Canavan-Leggett Brewery, Inc. 310,256; Feb. 13; Serial No. 341,568; published Dec. 5, 1933.
Beer, porter, ale, beer wort, etc. Actiengesellschaft Hackerbräu. 310,169; Feb. 13; Serial No. 342,147; published Dec. 5, 1933.
Malt beverages. J. F. Giering Bottling Co. 310,163; Feb. 13; Serial No. 342,754; published Dec. 5, 1933.
Malt beverages. Hampden Brewing Company. 310,250; Feb. 13; Serial No. 340,646; published Dec. 5, 1933.
Malt beverages. Schultheiss-Patzenhofer Brauerei-Aktiengesellschaft. 310,232; Feb. 13; Serial No. 337,400; published Dec. 5, 1933.
Malt beverages. Victor Brewing Company. 310,147–8; Feb. 13; Serial Nos. 342,827–8; published Dec. 5, 1933.

CLASS 49

Brandy, Anisette. Hijos de Pablo Esparza. 310,234; Feb. 13; Serial No. 335,419; published Dec. 5, 1933.
Brandy, Cognac. Napa & Sonoma Wine Co. 310,124; Feb. 13; Serial No. 342,980; published Dec. 5, 1933.
Brandy, gin, whisky, etc. United Distillers Corporation. 310,099; Feb. 13; Serial No. 342,497; published Nov. 28, 1933.
Cordial, Blackberry. Garrett & Co. 94,785; renewed Dec. 30, 1933.
Cordials and cocktails, Alcoholic. C. M. Goodwin, sr. 310,069; Feb. 13; Serial No. 342,613; published Dec. 5, 1933.
Cordials, brandies, etc. Calfruit Wineries, Inc. 310,086; Feb. 13; Serial No. 342,063; published Nov. 21, 1933.
Gin. Continental Distilling Corporation. 310,075; Feb. 13; Serial No. 342,106; published Nov. 21, 1933.
Gin. Continental Distilling Corporation. 310,131; Feb. 13; Serial No. 342,879; published Dec. 5, 1933.
Gin. Continental Distilling Corporation. 310,149; Feb. 13; Serial No. 342,881; published Dec. 5, 1933.
Gin. Continental Distilling Corporation. 310,152; Feb. 13; Serial No. 342,898; published Dec. 5, 1933.
Gin. J. De Kuyper & Son. 310,057; Feb. 13; Serial No. 342,742; published Dec. 5 1933.
Gin. D. McQuivey. 310,155; Feb. 13; Serial No. 342,919; published Dec. 5, 1933.
Gin. Van Duiken Weiland & Co's Export Distilleerderij N. V. 310,185; Feb. 13; Serial No. 339,800; published Nov. 21, 1933.
Gin, whisky, brandy, and rum. Charles Kinloch & Co. Limited. 310,065; Feb. 13; Serial No. 342,652; published Nov. 28, 1933.
Liquors. Asbach & Co. Aktiengesellschaft. 310,179–80; Feb. 13; Serial Nos. 339,218–19; published Nov. 21, 1933.
Rum. Continental Distilling Corporation. 310,150; Feb. 13; Serial No. 342,889; published Dec. 5, 1933.
Rum. Governor and Company of Adventurers of England Trading into Hudson's Bay. 310,276; Feb. 13; Serial No. 341,678; published Nov. 21, 1933.
Rum and other potable distilled liquors. Wine & Spirit Vaults Limited. 310,120; Feb. 13; Serial No. 342,051; published Dec. 5, 1933.
Whiskey, brandy, gin, etc. Calfruit Wineries, Inc. 310,087; Feb. 13; Serial No. 342,062; published Nov. 21, 1933.
Whiskey, brandy, gin, etc. Jos. S. Finch & Company. 310,106; Feb. 13; Serial No. 342,532; published Nov. 28, 1933.
Whiskey, brandy, gin, etc. Jos. S. Finch & Company. 310,144; Feb. 13; Serial No. 342,970; published Dec. 5, 1933.
Whiskey, brandy, gin, etc. The Geo. T. Stagg Co. 310,100; Feb. 13; Serial No. 342,495; published Nov. 28, 1933.
Whiskey, brandy, gin, etc. The Geo. T. Stagg Co. 310,116; Feb. 13; Serial No. 342,555; published Nov. 28, 1933.
Whiskies. W. L. Weller & Sons. 310,078–9; Feb. 13; Serial Nos. 342,091–2; published Dec. 5, 1933.
Whiskies. W. L. Weller & Sons. 310,080; Feb. 13; Serial No. 342,088; published Dec. 5, 1933.
Whisky. American Medicinal Spirits Company. 310,060; Feb. 13; Serial No. 342,722; published Dec. 5, 1933.
Whisky. American Medicinal Spirits Company. 310,070–2; Feb. 13; Serial Nos. 342,606–8; published Dec. 5, 1933.
Whisky. American Medicinal Spirits Company. 310,076; Feb. 13; Serial No. 342,105; published Nov. 28, 1933.
Whisky. American Medicinal Spirits Company. 310,115; Feb. 13; Serial No. 342,563; published Dec. 5, 1933.
Whisky. American Medicinal Spirits Company. 310,122; Feb. 13; Serial No. 342,603; published Dec. 5, 1933.
Whisky. American Medicinal Spirits Company. 310,123; Feb. 13; Serial No. 342,605; published Dec. 5, 1933.
Whisky. American Medicinal Spirits Company. 310,137; Feb. 13; Serial No. 342 331; published Nov. 28, 1933.
Whisky. American Medicinal Spirits Company. 310,206; Feb. 13; Serial No. 342,604; published Dec. 5, 1933.
Whisky. James Catto & Co. Limited. 310,183; Feb. 13; Serial No. 339,518; published Nov. 21, 1933.
Whisky. Chivas Brothers. 310,085; Feb. 13; Serial No. 342,064; published Nov. 28, 1933.
Whisky. Continental Distilling Corporation. 310,151; Feb. 13; Serial No. 342,896; published Dec. 5, 1933.
Whisky. Cork Distilleries Company Limited. 310,096; Feb. 13; Serial No. 341,951; published Nov. 21, 1933.
Whisky. James L. Denman & Co. 310,114; Feb. 13; Serial No. 342,581; published Nov. 28, 1933.
Whisky. John Dewar & Sons, Limited. 310,049; Feb. 13; Serial No. 342,341; published Nov. 28, 1933.
Whisky. Dowling Bros. Distilling Co. 310,084; Feb. 13; Serial No. 342,069; published Nov. 21, 1933.
Whisky. Governor and Company of Adventurers of England Trading into Hudson's Bay. 310,253; Feb. 13; Serial No. 340,351; published Nov. 21, 1933.
Whisky. Juillard, Incorporated. 310,047; Feb. 13; Serial No. 342 439; published Nov. 28, 1933.
Whisky. Juillard, Incorporated. 310,048; Feb. 13; Serial No. 342,442; published Nov. 28, 1933.
Whisky. Labrot & Graham Incorporated. 310,197; Feb. 13; Serial No. 341,767; published Nov. 21, 1933.
Whisky. B. P. Lilienthal. 310,242; Feb. 13; Serial No. 342,281; published Nov. 28, 1933.
Whisky. B. P. Lilienthal. 310,245; Feb. 13; Serial No. 342,279; published Nov. 28, 1933.
Whisky. R. H. Macy & Co. 310,105; Feb. 13; Serial No. 342,544; published Nov. 28, 1933.
Whisky. E. L. Mahoney. 310,168; Feb. 13; Serial No. 342,229; published Dec. 5, 1933.
Whisky. J. & J. McConnell, Limited. 310,113; Feb. 13; Serial No. 342,590; published Nov. 28, 1933.
Whisky. Melrose-Drover, Limited. 310,261; Feb. 13; Serial No. 341,461; published Nov. 28, 1933.
Whisky. Philadelphia Pure Rye Whiskey Distilling Company of Pennsylvania, Limited. 310,118; Feb. 13; Serial No. 342,041; published Nov. 28, 1933.
Whisky. F. C. Reilly. 310,074; Feb. 13; Serial No. 342,112; published Dec. 5, 1933.
Whisky. W. G. Wiglesworth. 310,247; Feb. 13; Serial No. 340,854; published Nov. 21, 1933.
Whisky and gin. Hill, Thomson & Co. 310,093; Feb. 13; Serial No. 341,970; published Dec. 5, 1933.
Whisky and other potable distilled liquors. Chalié, Richards & Co. 310,266; Feb. 13; Serial No. 341,014; published Nov. 28, 1933.
Whisky and other potable distilled liquors. Consolidated Distilleries, Limited. 310,058–9; Feb. 13; Serial Nos. 342,731–2; published Nov. 28, 1933.
Whisky and other potable distilled liquors. Wine & Spirit Vaults Limited. 310,181; Feb. 13; Serial No. 339,374; published Nov. 21, 1933.
Whisky, Scotch. P. D. Carnegie & Sons, Ltd. 310,262; Feb. 13; Serial No. 341,421; published Nov. 21, 1933.
Whisky, Scotch. White Horse Distillers, Limited. 310,140; Feb. 13; Serial No. 342,250; published Nov. 28, 1933.

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Caps or closures, Bottle and jar. Ferdinand Gutmann and Co. 310,172; Feb. 13; Serial No. 342,180; published Dec. 5, 1933.

LIST OF LABELS

A Selection by Fashion Congress of America. For Apparel and Accessories. S. J. Cohen. 43,215; Feb. 13.

B and H. For Beer. Tidewater Beverage Dist. Co. 43,249; Feb. 13.

Butter-Cream. For Bread. Western Bakeries Corp. Ltd. 43,251; Feb. 13.

Butter Scotch. For Butter Scotch Candy. J. N. Collins Company. 43,216; Feb. 13.

Coffee. For Coffee. M. Neumann. 43,236; Feb. 13.

"Deer-Stalker" Special Liqueur. For Whisky. J. G. Thomson & Co. Ltd. 43,246; Feb. 13.

Dermo. For a Preparation for Rejuvenating the Hair and Treating the Scalp. Dermo Products Company. 43,217; Feb. 13.

Dorothy Lathrop Purity Brand Food Coloring. For Food Coloring. Dorothy Lathrop Products Company. 43,231; Feb. 13.

Fells London Original Dry Gin. For Dry Gin. Royal Distillers, Ltd. 43,244; Feb. 13.

G & B Cabinet. For Rye Blend Whiskey. Gallagher & Burton, Inc. 43,218; Feb. 13.

G & B Sportsman. For Scotch Blend Whiskey. Gallagher & Burton, Inc. 43,219; Feb. 13.

G & B Imperial. For Rye Blend Whiskey. Gallagher & Burton, Inc. 43,220; Feb. 13.

German Style. For Beer. L. Miller. 43,233; Feb. 13.

Glendor Liquor. For Liquor. J. H. R. Grant. 43,222; Feb. 13.

Griffith's Patented Process Cure. A Powdered Salt Mass for Treating Meats. Griffith Laboratories, Inc. 43,223; Feb. 13.

Indian. For Chewing Gum. Goudey Gum Co. 43,221; Feb. 13.

Kellogg's Rice Krispies—Jack Be Nimble Told By Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. Kellogg Company. 43,227; Feb. 13.

Kellogg's Rice Krispies—Old King Cole Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. Kellogg Company. 43,229; Feb. 13.

Kellogg's Rice Krispies—Old Mother Hubbard Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. Kellogg Company. 43,228; Feb. 13.

Kellogg's Rice Krispies—Simple Simon Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. Kellogg Company. 43,226; Feb. 13.

Kellogg's Rice Krispies—Tom the Piper's Son Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. Kellogg Company. 43,230; Feb. 13.

Kellogg's Rice Krispies—Tommy Tucker's Birthday Told by Kellogg's Singing Lady. For Ready-to-Eat Rice Cereal Food. Kellogg Company. 43,225; Feb. 13.

Moonglo Pearls, Nature's Only Rival. For Pearls. Schein Brothers, Inc. 43,245; Feb. 13.

Mount Rose. For Dry Gin. Mount Rose Distilling Co. 43,234; Feb. 13.

National Lager Beer. For Lager Beer. National Brewing Co. 43,235; Feb. 13.

Old Melody. For Whiskey. Chateau Products, Inc. 43,214; Feb. 13.

Old Virginia. For Beer. Tidewater Beverage Dist. Co. 43,248; Feb. 13.

Parke's Gold Camel Tea. For Tea. L. H. Parke Company. 43,237; Feb. 13.

Pearl-White Tooth Paste. For Tooth Paste. The Trade Laboratories, Inc. 43,250; Feb. 13.

Prague Salt Powder. For Powdered Salt Mass for Treating Meats. Griffith Laboratories, Inc. 43,224; Feb. 13.

Reefer's Crystals Kills Moths—For Use in Vacuum Cleaners. For a Chemical Crystal Preparation for the Extermination of Moths and Moth Worms, for Use in Vacuum Cleaners. Reefer-Galler, Inc. 43,241; Feb. 13.

Reefer's Injecto-O—Prevents and Kills Moths Inside Upholstered Furniture. For a Liquid Chemical Preparation for the Extermination of Moths and Moth Worms. Reefer-Galler, Inc. 43,243; Feb. 13.

Reefer's SnoWhite Crystals Kills Moths and Moth Worms. For a Chemical Crystal Preparation for the Extermination of Moths and Moth Worms. Reefer-Galler, Inc. 43,242; Feb. 13.

Regal Crystals Kills Moths—For Use in Vacuum Cleaners. For a Chemical Crystal Preparation as a Protection Against Moths for Use in Vacuum Cleaners. Regal Products Co. 43,238; Feb. 13.

Regal Spray Kills Moths, Flies, Mosquitoes, Ants, Roaches. For a Chemical Liquid Preparation for the Extermination of Moths and Other Household Pests. Regal Products Co. 43,239; Feb. 13.

Regal White Crystals Kills Moths and Moth Worms. For Chemical Crystal Preparation for the Killing of Moths, Moth Eggs, and Larvæ. Regal Products Co. 43,240; Feb. 13.

Sea View Brand. For Canned Tomatoes. R. L. Mason. 43,232; Feb. 13.

Thomson's Clan Macgregor Fine Old Scotch Whiskey—The Clan Blends. For Whisky. J. G. Thomson & Co. Ltd. 43,247; Feb. 13.

LIST OF PRINTS

A Grand Smash. For Coffee. Hills Bros. 14,585; Feb. 13.

A Yes Man. For Coffee. Hills Bros. 14,589; Feb. 13.

After the Ball is Over. For Coffee. Hills Bros. 14,586; Feb. 13.

Ask About the Purina Feeding and Management Program That Assures Dairy Profits (Dairy Poster). For Dairy Feed. Ralston Purina Company. 14,597; Feb. 13.

Babe Ruth—the Home-Run King. For Cereal Food. General Mills, Inc. 14,583; Feb. 13.

Carve Your Way To Success. For Coffee. Hills Bros. 14,594; Feb. 13.

De Laval Cream Separators and Milkers. For Cream Separators and Milkers. De Laval Separator Company. 14,581; Feb. 13.

Don't Bet on Women. For Coffee. Hills Bros. 14,591; Feb. 13.

Families Large and Small. For Coffee. Hills Bros. 14,590; Feb. 13.

50 Tons of Dog Chow Go to South Pole With Byrd! (Poster). For Dog Food. Ralston Purina Company. 14,596; Feb. 13.

Free! $5,000.00 in Cash in This New Betty Crocker Cake Naming Contest! For Flour. General Mills, Inc. 14,582; Feb. 13.

Give Him a Break. For Coffee. Hills Bros. 14,587; Feb. 13.

Mary Went to Market. For Coffee. Hills Bros. 14,592; Feb. 13.

Mother! Don't Force Your Child to Eat a Hot Cereal! For Cereal Food. General Mills, Inc. 14,584; Feb. 13.

National Distillers. For Whiskey. National Distillers Products Corporation. 14,595; Feb. 13.

Old Master Coffee. For Coffee. The Blodgett-Beckley Co. 14,580; Feb. 13.

Rolls and Coffee. For Coffee. Hills Bros. 14,588; Feb. 13.

Tarzan. For Candy. S. Slesinger. 14,598; Feb. 13.

Whiskers for Santa. For Coffee. Hills Bros. 14,593; Feb. 13.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF FEBRUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acheson, Marcus A., Schenectady, N. Y., assignor to General Electric Company. Electron discharge apparatus. 1,947,179; Feb. 13.

Acme Shear Company, The. (See Conway, John J., assignor.)

Adams, Ervin, assignor of part interest to R. Largioli, R. D. Strawn, W. H. Ehret, B. Bodner, H. W. Brecker, and M. J. Haney, Mount Carmel, Pa. Static and interference eliminator. 1,946,606; Feb. 13.

Adams Wax Products Mfg. Inc. (See Richmond, Burton I., assignor.)

Addler, Joseph H., Brooklyn, and H. W. Crowson, New York, N. Y., assignors to Pullclean Manufacturing Corporation, Bridgeport, Conn. Towel cabinet. 1,946,997; Feb. 13.

Adlake Company, The. (See Brown, Ralph, assignor.)

Adlake Company, The. (See Hamm, William S., assignor.)

Advance Engineering Corporation. (See Bixler, Alvin P., assignor.)

Affel, Herman A., Ridgewood, and E. I. Green, East Orange, N. J., assignors to American Telephone and Telegraph Company. Amplifier control. 1,946,607; Feb. 13.

Agati, Giovanni, San Francisco, Calif. Combination chair and high chair. 1,946,826; Feb. 13.

Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)

Ajax Metal Company, The. (See Neuhauss, Heinrich, assignor.)

Aktiebolaget A. Heyman, et al. (See Blomqvist, G. H., and Groth, assignors.)

Aktiebolaget A. Heyman, et al. (See Groth, B. S., and Blomqvist.)

Aktiebolaget Nomy. (See Wallgren, August G. F., assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Hallopeau, F., Boveri, and Gaudenzi, assignors.)

Aktiengesellschaft Brown Boveri & Cie. (See Keller, Hans, assignor.)

Aktiengesellschaft für Stickstoffdünger. (See Weibezahn, K., and Walter, assignors.)

Allen, Albert, Winchester, and J. G. Callan, Cambridge, assignors to Atlantic Precision Instrument Company, Boston, Mass. Calipering mechanism. 1,946,924; Feb. 13.

Allen & Allen. (See Dorst, Paul W., assignor.)

Allen-Bradley Company. (See Wilms, Gustav O., assignor.)

Allen, Frank V. (See Jimerson, F. A., and Allen.)

Allen, Joseph W., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Engine starter. 1,946,957; Feb. 13.

Allendorff, Fritz, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Lubricating arrangement for magneto-electric ignition apparatus. 1,947,400; Feb. 13.

Allis-Chalmers Manufacturing Company. (See Lindberg, I. F., and Yunker, assignors.)

Allison, Charles F., and P. Naeher, assignors to B. F. Gump Co., Chicago, Ill. Vibrating machine for settling contents of bags. 1,947,029; Feb. 13.

Alvey, Glenn H., assignor to Uvalde Rock Asphalt Company, San Antonio, Tex. Sand rock asphalt pavement. 1,946,517; Feb. 13.

Amann, Max. Frankfort-on-the-Main, Germany. Equipment for supplying current impulses. 1,946,891; Feb. 13.

Amber Asbestos Shingle & Sheathing Company. (See Mattison, Royal, assignor.)

American Ball-Mill Company. (See Van Pelt, Elmer L., assignor.)

American Bemberg Corporation. (See Hofmann, Hugo, assignor.)

American Engineering Company. (See Karthäuser, Bruno, assignor.)

American Engineering Company. (See Kuzelewski, Albert R., assignor.)

American Enka Corporation. (See Cox, Angus M., assignor.)

American Fabrics Company, The. (See Page, Samuel H., assignor.)

American Laundry Machinery Company, The. (See Hetzer, Russell A., assignor.)

American Laundry Machinery Company, The. (See Sando, Joseph B., assignor.)

American Reenforced Paper Company. (See Stevenson, William N., assignor.)

American Rolling Mill Company, The. (See Bradley, H. W., and Long, assignors.)

American Rolling Mill Company, The. (See Griffis, Ralph O., assignor.)

American Smelting and Refining Company. (See Perkins, Melville F., assignor.)

American Smelting and Refining Company. (See Slagle, Edgar A., assignor.)

American Steel Foundries. (See Oelkers, Alfred H., assignor.)

American Sterilizer Company. (See Ciachko, Josiah S., assignor.)

American Telephone and Telegraph Company. (See Affel, H. A., and Green, assignors.)

American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)

American Thread Company, The. (See Anderson, George K., assignor.)

Ames, Adelbert, jr., assignor to trustees of Dartmouth College, Hanover, N. H. Clinical optical mensuration instrument. 1,946,925; Feb. 13.

Amos, John F., Mishawaka, Ind. Method and apparatus for molding hollow articles. 1,946,471; Feb. 13.

Amsden, Ralph D., Lynn, Mass., assignor to General Electric Company. Rectifier for motion-picture projectors. 1,947,240; Feb. 13.

Anastasiadis, Loulis C., assignor to Una Welding, Incorporated, Cleveland, Ohio. Welding electrode and flux therefor. 1,946,958; Feb. 13.

Anderson, George K., Fall River, Mass., assignor to The American Thread Company, Jersey City, N. J. Thread package. 1,947,284; Feb. 13.

Anderson, Oscar W., Oak Park, assignor to Pettibone Mulliken Company, Chicago, Ill. Pump. 1,947,148; Feb. 13.

Andrews, Nathaniel R., Yonkers, and J. J. Neuman, New York, N. Y. Automatic gyration control means for centrifugal extractors. 1,946,725; Feb. 13.

Angier, Edward H., Framingham, Mass. Joining concrete sections and dowel pin covers therefor. 1,946,658; Feb. 13.

Apollo Fabrics, Inc. (See Reiman, Paul, assignor.)

Armour and Company. (See True, Melville J., assignor.)

Armstrong, Vernon W., Chicago, Ill. Bathing beach accessories. 1,946,998; Feb. 13.

Arras, George, Chicago, Ill. Lighting reflector. 1,946,465; Feb. 13.

Aseltine, Fred E., assignor to Delco Products Corporation, Dayton, Ohio. Charge forming device. 1,946,608; Feb. 13.

Ashco Corporation. (See Schmidt, C. A., and Ashton, assignors.)

Ashton, Avon B. (See Schmidt, C. A., and Ashton.)

Associated Electric Laboratories, Inc. (See Crocker, T. F., and Tharp, assignors.)

Atlantic Precision Instrument Company. (See Allen, A., and Callan, assignors.)

Auerbach, Maurice J., Cleveland, Ohio, assignor of one-half to M. S. Greenwald. Adjustable lamp shade support. 1,946,959; Feb. 13.

Aupke, Benjamin H., Pittsburgh, Pa. Lid and retaining means therefor. 1,947,149; Feb. 13.

Automatic Gas-Steam Radiator Company. (See Blackmore, James S., assignor.)

Automotive Engineering Corporation. (See Fageol, Rollie B., assignor.)

Automotive Engineering Corporation. (See Rayburn, Alden G., assignor.)

Auto Research Corporation. (See Bijur, Joseph, assignor.)

Auto Research Corporation. (See Thomas, Thomas R., assignor.)

Ayers Augustine R. (See Pfiager, H. M., and Ayers.)

Babcock, Henry H., Oak Park, assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Corrugating tubing. 1,946,472; Feb. 13.

Babcock & Wilcox Tube Company, The. (See Harter, Isaac, assignor.)

Babendreer, Albert I., and W. F. Dale, Ocean Springs, Miss. Apparatus for introducing lubricating oil into gasoline. 1,946,473; Feb. 13.

Baber, Eugene S., Indianapolis, Ind. Trailer coupling. 1,947,030; Feb. 13.

Bach, Edward W., Rose Lake, British Columbia, Canada. Mechanical player for stringed instruments. 1,946,827; Feb. 13.

Bacon, Joseph B., Macomb, Ill. Rectal syringe or douche nozzle. 1,947,150; Feb. 13.

Baer, Rudolph W. (See Kahle, F. J., and Baer.)

Bagley and Sewall Company, The. (See Sanger, Frank M., assignor.)

Bagpak, Inc. (See Weaver, Brenton B., assignor.)

Bailey, William J., Narberth, Pa. Multiple revoluble tray rack. 1,947,325; Feb. 13.

Bain, William H., University City, Mo. Insole and making shoes therewith. 1,947,031; Feb. 13.

Bakelite Corporation. (See Courtney, Robert P., assignor.)

Baker, Abner D. and L. R., Swanton, Ohio. Engine valve gear. 1,946,659; Feb. 13.

Baker, David B., Riverside, Ill., assignor to International Harvester Company. Top track support for track type tractors. 1,946,660; Feb. 13.

Baker, Frederick W., Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y. Flexible driving mechanism. 1,946,661; Feb. 13.

Baker, Louis R. (See Baker, Abner D. and L. R.)

Ballantine, Stuart, Boonton, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Reducing retroactive currents in three-electrode ionic amplifiers. 1,946,662; Feb. 13.

Balsam, Maurice M., New York, N. Y. Machine for turning the edges of flexible material. 1,946,999; Feb. 13.

Banks, John H. (See Banks, Reginald M. and J. H., and Burritt.)

Banks, Reginald M., Plainfield, N. J., J. H. Banks, New York, and W. W. Burritt, Brooklyn, N. Y., deceased; E. G. Burritt, executrix. Automatic fluid feed proportioning method and apparatus. 1,946,474; Feb. 13.

Barclay, Robert E., assignor to Federal Electric Company, Chicago, Ill. Sign. 1,946,726; Feb. 13.

Barclay, Wright, New York, N. Y. Automobile body. Re19,078; Feb. 13.

Bard, Charles T., Norwich, Conn. Gas meter bar. 1,947,371; Feb. 13.

Bard, Charles T., Gales Ferry, Conn. Automatic gas shut-off. 1,947,372; Feb. 13.

Bardin, Joseph, Versailles, France, assignor to General Electric Company. Electrohydraulic operating mechanism. 1,947,241; Feb. 13.

Barker, George A., Rochester, N. Y. Gasket. 1,946,475; Feb. 13.

Barnes & Jones, Incorporated. (See Oberg, Clifford R., assignor.)

Barnhart, Job R., assignor of one-half to Walter M. Scott, Lakewood, Ohio. Tube tester. 1,946,466; Feb. 13.

Barrett, Edward L., assignor to Utah Radio Products Co., Chicago, Ill. Direct current transforming device. 1,946,563; Feb. 13.

Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Cushioning mechanism. 1,946,476; Feb. 13.

Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,946,828; Feb. 13.

Bart, Blasius, East Orange, N. J., assignor to Precious Metals Developing Company, Inc. Tarnish resisting silver. 1,947,180; Feb. 13.

Bartels, Frank, Sacramento, Calif., assignor to Defiance Spark Plug, Incorporated, Toledo, Ohio. Ignition tester. 1,946,518; Feb. 13.

Bartlett, Nicholas, Syracuse, N. Y. Humidifying radiator. 1,946,564; Feb. 13.

Barton, James M., assignor to Frets-Moon Tube Company, Inc., Butler, Pa. Flying saw. 1,946,926; Feb. 13.

Bastian-Blessing Company, The. (See Buttner, William C., assignor.)

Bauer, Friedrich, and E. W. Kafka, Berlin-Charlottenburg, Germany, assignors to Westinghouse Electric and Manufacturing Company. Dry rectifier. 1,947,075; Feb. 13.

Bauerle, Charles E. (See Ward, W. J., Bauerle, and Dalrymple.)

Baumann, Harold C., Elizabeth, N. J., assignor to United Research Corporation, New York, N. Y. Mixer amplifier. 1,946,565; Feb. 13.

Bayer, Otto, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Benzanthrone-1-aldehyde and making same. 1,946,829; Feb. 13.

Bebie, Edwin W., Hawthorne, N. J., assignor to International Paper Company, New York, N. Y. Extension core cap. 1,947,032; Feb. 13.

Beck, Isaac S., Brooklyn, N. Y. Mascara case. 1,946,727; Feb. 13.

Beck, Leo L., East Orange, N. J., and A. E. Noble, Lynbrook, assignors to Claude Neon Lights, Inc., New York, N. Y. Luminescent tube. 1,946,477; Feb. 13.

Beckett, Russell V., and C. L. Jones, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Lightning arrester. 1,947,076; Feb. 13.

Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric valve converting apparatus. 1,947,242; Feb. 13.

Behnke, George W., assignor to Simplicity Engineering Company, Durand, Mich. Dewatering device. 1,946,663; Feb. 13.

Behr-Manning Corporation. (See Gallagher, Francis E., assignor.)

Behrend, Oswald, Woodhaven, N. Y., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Accelerator for rubber vulcanization processes. 1,946,960; Feb. 13.

Behrman, Marcus B., Brooklyn, assignor to The Lox Seal Corporation, New York, N. Y. Shearing device for looms and blades therefor. 1,947,181; Feb. 13.

Beidler, Ford E., New York, N. Y., assignor of one-half to C. J. Heermance. Safety exit light. 1,946,570; Feb. 13.

Belknap, William D. (See Hallwood, Thomas H., assignor.)

Belkoff, Michael A., et al. (See Bihler, Roger, assignor.)

Bell, Harold E., Spokane, Wash. Weather stripping. 1,946,728; Feb. 13.

Bell Telephone Laboratories, Incorporated. (See Betts, Philander H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bruce, Edmond, assignor.)

Bell Telephone Laboratories, Incorporated. (See Friis, Harald T., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mathes, Robert C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Morrison, Louis A., assignor.)

Bemis, Kenneth E., assignor to Walgreen Co., Chicago, Ill. Liquid dispensing apparatus. 1,946,519; Feb. 13.

Bendix Aviation Corporation. (See Lorenzen, Christian, assignor.)

Bendix Research Corporation. (See Mock, Frank C., assignor.)

Bendix Westinghouse Automotive Air Brake Company. (See Eaton, Wilfred A., assignor.)

Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Tractor cultivator. 1,946,664; Feb. 13.

Benning, Ralph T., St. Louis, Mo. Arch support. 1,947,000; Feb. 13.

Benson, Harold B., Brooklyn, N. Y. Brake mechanism. 1,946,892; Feb. 13.

Bergholm, Harry K., and H. M. Ulistrand, Evansville, Ind., assignors to Electrolux Servel Corporation, New York, N. Y. Condenser for refrigerating apparatus. 1,946,467; Feb. 13.

Berwind Fuel Co., of Delaware. (See Komarek, Gustav, assignor.)

Betts, Philander H., Belmar, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Constant frequency apparatus. 1,947,182; Feb. 13.

Bickel, Leon R., Upper Darby, Pa. Commode chair. 1,947,373; Feb. 13.

Biers, Morris, Brooklyn, N. Y. Emblem or similar article. Des. 91,477; Feb. 13.

Bleth, Tom C., Alsten, Sweden, assignor to Electrolux Corporation, Dover, Del. Dust separator. 1,946,665; Feb. 13.

Bigelow Sanford Carpet Co. (See Murphy, Francis S., assignor.)

Bihler, Roger, assignor to M. A. Belkoff, College Point, and A. A. Slade, Rye, N. Y. Apparatus for manufacture of powder puffs. 1,947,285; Feb. 13.

Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubrication. 1,946,478; Feb. 13.

Bindschedler, Theodore S., assignor to Burroughs Adding Machine Company, Detroit, Mich. Electric motor. 1,946,468; Feb. 13.

Binkert, August. (See Stoll, A., Binkert, and Kussmaul.)

Birdsboro Steel Foundry & Machine Company. (See Martin, Mark H., assignor.)

Birdsey, Charles R., and H. W. Reel, Hinsdale, assignors to United States Gypsum Company, Chicago, Ill. Floor and ceiling construction. 1,947,401; Feb. 13.

Bishop & Babcock Manufacturing Company, The. (See Babcock, Henry H., assignor.)

Bitterbaum, Mortimer, New York, N. Y. Renovating machine for building facades. 1,947,286; Feb. 13.

Bixler, Alvin P., assignor to Advance Engineering Corporation, Duncannon, Pa. Alloy. 1,946,609; Feb. 13.

Black, John E., Rumson, N. J., assignor, by mesne assignments, to Fuller Lehigh Company. Steam boiler. 1,946,666; Feb. 13.

Blackburn, Jasper, Webster Groves, Mo. Take-up connecter for anchor rods and guy wires. 1,946,830; Feb. 13.

Blackmore, James S., Edgewood, assignor to Automatic Gas-Steam Radiator Company, Pittsburgh, Pa. Gas consuming device. 1,946,729; Feb. 13.

Blackstock, Gibbs, Toronto, Ontario, Canada. Semiautomatic roller clutch transmission. 1,947,374; Feb. 13.

Blade, Axel, Racine, Wis. Adjustable template for jambs and frames. 1,946,961; Feb. 13.

Blanchard, Frederick W., assignor to T. McAvity & Sons Limited, Montreal, Quebec, Canada. Light projecting lamp for locomotive cabs. 1,947,377; Feb. 13.

Blaw-Knox Company. (See McCrery, Harold E., assignor.)

Blazek, John Y., Cleveland, assignor to Lempco Products, Inc., Bedford, Ohio. Lathe attachment. 1,947,378; Feb. 13.

Block, Fred A., Detroit, Mich. Cooling and carbonating attachment for receptacles. 1,946,962; Feb. 13.

Blomberg, Martin P., and W. H. Mussey, Chicago, Ill., assignors, by mesne assignments, to Pullman Car & Manufacturing Corporation. Railway car. 1,946,520; Feb. 13.

Blomqvist, Georg H. (See Groth, B. S., and Blomqvist.)

Blomqvist, Georg H., and B. S. Groth, assignors to Kemiska Kontrollbyrån Aktiebolag, Stockholm, and Aktiebolaget A. Heyman, Vargarda, Sweden. Production of furfural. 1,946,667; Feb. 13.

Blunt, James G., Schenectady, N. Y. Lateral motion cushioning device. 1,946,893; Feb. 13.

Bodle, Virgil H., Newton, assignor to Hood Rubber Company, Inc., Watertown, Mass. Upper for footwear and method of making same. 1,947,183; Feb. 13.

Boecking, Ewald. (See Frappier, L. S., and Boecking.)

Bold, Frederick W., Chelsea, Mass. Fuse. 1,946,668; Feb. 13.

Bonsack, Walter, assignor to The National Smelting Company, Cleveland, Ohio. Aluminum base alloys. 1,947,121; Feb. 13.

Boonton Research Laboratories. (See Cobb, Howard L., assignor.)

Boos, Lyal R., Kansas City, Mo. Wrench. 1,946,669; Feb. 13.

Borden Company, The. (See Jones, Robcliff V., assignor.)

Born, Fritz, Berlin-Tempelhof, Germany, assignor to General Electric Company. Electric lamp. 1,947,243; Feb. 13.

Bosch, Robert, Aktiengesellschaft. (See Allendorf, Fritz, assignor.)

Boston Gear Works, Inc. (See Tougas, E. E., and Schumb, assignors.)

Bousel, Morris. (See Gilowitz, Benjamin, assignor.)

Boveri, Willi. (See Hallopeau, F., Boveri, and Gaudenzi.)

Bowen, William S., Westfield, N. J. Conditioning spray dried products and apparatus therefor. 1,946,566; Feb. 13.

Bracewell, Russell S., South Hadley, Mass. Apparatus for coating paper or the like. 1,946,831; Feb. 13.

Bradbury, Clifford C., Glencoe, assignor, by mesne assignments, of one-third to L. J. Gordon, Chicago, Ill. Safety razor. 1,947,244; Feb. 13.

Braden, Rene A., Merchantville, N. J., assignor to Radio Corporation of America. Pentode output circuits. 1,947,184; Feb. 13.

Bradley, Howard W., and P. H. Long, assignors to The American Rolling Mill Company, Middletown, Ohio. Roll polishing mechanism. 1,946,927; Feb. 13.

Bradley, Theodore F., Westfield, assignor to Ellis-Foster Company, Montclair, N. J. Nitrocellulose coating composition containing an acid body. 1,946,479; Feb. 13.

Braillard, Raymond, and J. Marique, Uccle, Belgium. Direct-reading radio-compass. 1,947,326; Feb. 13.

Brand, Samuel, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,946,469; Feb. 13.

Brandon, Arthur H., Los Angeles, Calif. Faucet adapter. 1,946,832; Feb. 13.

Brauer, Arthur J., and F. P. Wagner, St. Louis, Mo. Process and apparatus for forming the heel seat of a shoe. 1,947,245; Feb. 13.

Brauer, Arthur J., and F. P. Wagner, assignors to Brauer Bros., Inc., St. Louis, Mo. Making shoes. 1,947,246; Feb. 13.

Brauer Bros., Inc. (See Brauer, A. J., and Wagner, assignor.)

Braunworth, Percy L., East Orange, N. J. Portable solarium. 1,946,567; Feb. 13.

Brecker, Henry W., et al. (See Adams, Ervin, assignor.)

Brettell, William G., Liverpool, England. Preservation of fish in trawlers or marine carriers. 1,947,327; Feb. 13.

Brewer, William R., Duluth, Minn. Brake mechanism. 1,946,928; Feb. 13.

Briggs, Herbert B. (See Mendoza, M., Murray, and Briggs.)

Briggs, Leland S., Douglaston, N. Y., assignor to Dictaphone Corporation, New York, N. Y. Combined phonograph hood and supporting base therefor. Des. 91,478; Feb. 13.

Briner, Emil A., East Orange, N. J. Propeller with auxiliary blades applicable to driving aircraft. 1,946,571; Feb. 13.

Broderson, Neil O., Rochester, N. Y. Operating an internal combustion engine and an engine employing such method. 1,947,375; Feb. 13.

Brodhecker, Rolland A., Brownstown, Ind. Humidifier. 1,946,521; Feb. 13.

Brogdex Company. (See Skinner, Bronson C., assignor.)

Brogger, Ivar W., assignor to Edison-Splitdorf Corporation, West Orange, N. J. Electrical current responsive device. 1,946,894; Feb. 13.

Brooker, William F. C., Paramus, N. J., assignor to Enoch Morgan's Sons Co., New York, N. Y. Holder. 1,946,895; Feb. 13.

Brostrom, Charles G., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel cover trimming machine. 1,946,480; Feb. 13.

Brouillet, Wilfred A., San Luis Obispo, Calif. Cabinet for refreshening biscuits, rolls, and the like. 1,946,963; Feb. 13.

Brower, James. (See Townsend, D. W., and Brower.)

Browett, Frank, Cleveland, Ohio. Windshield wiper blade. 1,947,185; Feb. 13.

Brown, Arthur B. (See Lemmon, N. E., and Brown.)

Brown Instrument Company, The. (See Krogh, Anker E., assignor.)

Brown, Ralph, Wilmette, assignor to The Adlake Company, Chicago, Ill. Sash holder. 1,946,833; Feb. 13.

Brown, Walter V., Brandon, Manitoba, Canada. Truck tank underframe. 1,946,834; Feb. 13.

Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. High frequency transmission system. 1,947,247; Feb. 13.

Bryant, Roy B., Dallas, Tex. Automatic radio tuning apparatus. 1,947,186; Feb. 13.

Bryce, James W., Bloomfield, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Time recorder. 1,946,896; Feb. 13.

Buchols, John. Perth Amboy, N. J. Folding stand. 1,946,610 Feb. 13.

Buhr, Joseph F., assignor to Buhr Machine Tool Co., Ann Arbor, Mich. Table index mechanism. 1,946,835; Feb. 13.

Buhr Machine Tool Co. (See Buhr, Joseph F., assignor.)

Burdick, Edward C., and W. H. Gross, assignors to The Dow Chemical Company, Midland, Mich. Surface treatment of magnesium and magnesium base alloys. 1,947,122; Feb. 13.

Burks, Dana, jr., assignor to Board of Trustees, University of Illinois, Urbana, Ill. Regenerating and washing a zeolite bed. 1,947,248; Feb. 13.

Burnett, Charles S., San Francisco, Calif. Engine starter. 1,946,481; Feb. 13.

Burnett, Perry A., A. A. Fallis, and D. S. Pritchett, Experiment, Ga. Loom attachment. 1,946,730; Feb. 18.

Burrell, Matthew M. L., Millheim, Pa. Collapsible tube. 1,947,376; Feb. 13.

Burritt, Elizabeth G., executrix. (See Banks, Reginald M. and J. H., and Burritt.)

Burritt, Wilmot W. (See Banks, Reginald M. and J. H., and Burritt.)

Burroughs Adding Machine Company. (See Bindschedler, Theodore S., assignor.)

Burroughs Adding Machine Company. (See Butler, Thomas M., assignor.)

Burroughs Adding Machine Company. (See Racz, Ernest, assignor.)

Burrows, Stanley, assignor of one-half to C. L. Nielsen, Petone, Wellington, New Zealand. Tipping gear for bodies of motor vehicles. 1,947,328; Feb. 13.

Burton, Warren D., assignor to Combustioneer, Inc., Goshen, Ind. Feeding device for stokers. 1,946,482; Feb. 13.

Burton, Warren D., assignor to Combustioneer, Inc., Goshen, Ind. Mechanical stoker. 1,946,776; Feb. 13.

Bush, Eugene S., assignor to Bush Manufacturing Company, St. Louis, Mo. Clutch and transmission mechanism. 1,947,033; Feb. 13.

Bush Manufacturing Company. (See Bush, Eugene S., assignor.)

Bush, Vannevar, Belmont, Mass. Telephonic telegraphy. 1,947,249; Feb. 13.

Butler, Clinton C., Pomona, assignor to Food Machinery Corporation, San Jose, Calif. Sterilizing machine for boxes. 1,946,470; Feb. 13.

Butler, Thomas M., assignor to Burroughs Adding Machine Company, Detroit, Mich. Double ribbon mechanism. 1,947,034; Feb. 13.

Butler, William L., and H. F. Hillard, Salt Lake City, Utah; said Hillard assignor to said Butler. Draft control device. 1,946,568; Feb. 13.

Buttner, William C., assignor to The Bastian-Blessing Company, Chicago, Ill. Faucet. 1,947,329; Feb. 13.

Butusov, Emil P., Hollywood, assignor of one-half to D. Lewy, Chicago, Ill. Elevator control system. 1,946,777; Feb. 13.

Caldwell, Philip G., Schenectady, N. Y., assignor to General Electric Company. Sound absorbing system. 1,947,287; Feb. 13.

Callan, John G. (See Allen, A., and Callan.)

Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Co. Slack adjuster. 1,947,402; Feb. 13.

Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Co. Slack adjuster for railway brakes. 1,947,403; Feb. 13.

Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Company. Brake adjuster. 1,947,404; Feb. 13.

Camp, Percy B., Maywood, assignor to Universal Draft Gear Attachment Company, Chicago, Ill. Automatic slack adjuster. 1,947,405; Feb. 13.

Campbell, Patrick J. (See McPeak, Frank V., assignor.)

Caples, William G., Chicago, Ill. Sheet-metal-piling wall structure. 1,947,151; Feb. 13.

Carbide and Carbon Chemicals Corporation. (See Reid, Ernest W., assignor.)

Carbondale Machine Company. (See McCabe, Edward B., assignor.)

Carew, Herman, assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Paper dish. 1,946,611; Feb. 13.

Carey Philip Manufacturing Company, The. (See Stagg, Jones P., assignor.)

Cargill, Arthur W., Waitawa, New Zealand. Lime and manure distributor. 1,947,379; Feb. 13.

Carlin Comforts, Inc. (See May, Walter H., assignor.)

Carlson, John E., Forestville, assignor to The Trumbull Electric Manufacturing Company, Plainsville, Conn. Electric fuse clamp. 1,946,897; Feb. 13.

Carlson, John E., Forestville, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Fuse clamp. 1,946,898; Feb. 13.

Carlson, Oscar F., assignor to Deere & Company, Moline, Ill. Harvester finger bar. 1,947,123; Feb. 13.

Carrothers, Charles G. (See Kapp, R. O., and Carrothers.)

Carter Brothers, Incorporated. (See Russell, Julian G., assignor.)

Carter, Rolla N., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic printing apparatus. 1,946,612; Feb. 13.

Casparie, Paul, Basel and K. Siegfried, Zofingen, Switzerland. Producing preparations of opium. 1,947,380; Feb. 13.

Casse, Joseph E. (See Dautrick, O. L., Hufferd, Casse, and Stephens.)

Castain, Doucl, New Orleans, La. Paper cutter. 1,946,731; Feb. 13.

Casto, Lloyd V., Detroit, Mich., and G. von Webern, Dayton, Ohio, assignors to Oxford Varnish Corporation, Detroit, Mich. Surface decorating method and apparatus. 1,946,483; Feb. 13.

Celanese Corporation of America. (See Ellis, George H., assignor.)
Celanese Corporation of America. (See Ellis, G. H., and Olpin, assignors.)
Celluloid Corporation. (See Walsh, James F., assignor.)
Chadwick, Russell L., Greensburg, Pa. Universal electric plug. 1,947,331; Feb. 13.
Chain Belt Company. (See Townsend, D. W., and Brower, assignors.)
Chalut, Albert. (See Pazziani, A., and Chalut.)
Chapatte, Ida, Buffalo, N. Y. Puff iron. 1,946,929; Feb. 13.
Chapman, Everett, assignor to The Lincoln Electric Company, Cleveland, Ohio. Arc welding. 1,947,077; Feb. 13.
Charlebois, Anna S., Toronto, Ontario, Canada. Culinary utensil. 1,946,930; Feb. 13.
Charlton, George, Detroit, Mich., assignor to Wilcox-Rich Corporation. Steel alloy. 1,946,522; Feb. 13.
Chase, Curtis D., assignor to Chase Rights Corporation, Philadelphia, Pa. Camera. 1,946,836; Feb. 13.
Chase Rights Corporation. (See Chase, Curtis D., assignor.)
Chemical Works formerly Sandoz. (See Stoll, A., Binkert, and Kussmaul, assignors.)
Cheney Company, The. (See Levow, D., and Ratner, assignors.)
Chesnut, William C. (See Ritter, J., jr., and Chesnut.)
Chicago Bridge & Iron Company. (See Horton, George T., assignor.)
Chicago Bridge & Iron Company. (See Williams, Djalma D., assignor.)
Chicago Telephone Supply Company. (See Schellenger, Newton C., assignor.)
Chong, Look L., Isleton, Calif. Self-cleaning device for adjustment screws. 1,946,931; Feb. 13.
Christen, Albert, Hastings, assignor to Consolidated Shipbuilding Corporation, New York, N. Y. Device for indicating direction of rotation of propeller. 1,947,332; Feb. 13.
Christensen, Norman V., and F. F. Zeier, assignors to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. 1,947,380; Feb. 13.
Cimbora, Edward. (See Kassay, Martin, assignor.)
Ciachko, Josiah S., Springfield, N. Y., assignor, by mesne assignments, to American Sterilizer Company, Erie, Pa. Pedestal base operating table. 1,946,899; Feb. 13.
Clark, Earl W., East Lynn, and E. Gilbertson, Lynn, Mass., assignors to General Electric Company. Temperature compensation for electrical devices. 1,947,187; Feb. 13.
Clark, Francis E., assignor to Package Machinery Company, Springfield, Mass. Making hermetically sealed packages. 1,946,569; Feb. 13.
Clark, Frank E., Bridgeport, Conn. Interlocking brick-block construction. 1,947,188; Feb. 13.
Clark, Frank W., assignor to Sanford Mills, Sanford, Maine. Carpet material. 1,947,152; Feb. 13.
Claude Neon Lights, Inc. (See Beck, L. L., and Noble, assignors.)
Claude Neon Lights, Inc. (See Noble, Aubrey E., assignor.)
Clauss, Charles A., Fairfield, Conn. Insert for waffle irons. 1,947,124; Feb. 13.
Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Rotary take-up for sewing machines. 1,947,333; Feb. 13.
Clayton, Walter, Belmar, N. J. Doorcheck. 1,946,837; Feb. 13.
Cline, Allan J., Chicago, Ill. Reel for telephone cords. 1,946,778; Feb. 13.
Coastal Contracting Co., Inc. (See Hay, Percy D., assignor)
Cobb, Harold E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor thermal relay. 1,947,078; Feb. 13.
Cobb, Howard L., assignor to Boonton Research Corporation, Boonton, N. J. Magnetic material and making the same. 1,946,964; Feb. 13.
Cockrell, William D., Schenectady, N. Y., assignor to General Electric Company. Control apparatus for vapor electric discharge devices. 1,947,189; Feb. 13.
Cody, Richard J., Evanston, assignor to Container Corporation of America, Chicago, Ill. Collapsible container. 1,947,190; Feb. 13.
Cofrin, Austin E., Green Bay, Wis. Embossing attachment for paper making machines. 1,946,838; Feb. 13.
Cole, Lyndon C., assignor to General Machinery Corporation, Hamilton, Ohio. Lathe. 1,946,839; Feb. 13.
Colin, David H. (See Wachs, Benjamin and M. A., and Colin.)
Columbus McKinney Chain Company. (See Stahl, Frank E., assignor.)
Colvin, Nolan D. (See Coultas, W. J., and Colvin.)
Combustioneer, Inc. (See Burton, Warren D., assignor.)
Comstock, George F., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Ferro-titanium alloy and making same. 1,946,670; Feb. 13.
Conklin, James W. (See Finch, J. L., and Conklin.)
Connolly, Gerald C., and E. B. Miller, assignors, by mesne assignments, to C. F. Hockley, receiver for the Silica Gel Corporation, Baltimore, Md. Refrigeration process and adsorbents therefor. 1,947,381; Feb. 13.
Consolidated Shipbuilding Corporation. (See Christen, Albert, assignor.)
Consortium für Electrochemische Industrie. (See Meingast, R., and Mugdan, assignors.)
Construction Materials Patents, Inc. (See Mills, George W., jr., assignor.)
Container Corporation of America. (See Cody, Richard J., assignor.)
Container Corporation of America. (See Flynn, Roy L., assignor.)
Container Corporation of America. (See Goodnow, Charles H., assignor.)
Container Corporation of America. (See Potter, Earl C., assignor.)
Container Corporation of America. (See Walter, Harrison B., assignor.)
Continental Aircraft Engine Company. (See Du Bois, Ralph N., assignor.)
Continental Aircraft Engine Company. (See Niven, Archie M., assignor.)
Continental Gin Company. (See Deems, Frank E., assignor)
Continental Gin Company. (See Elliott, Thomas, assignor.)
Continental Motors Corporation. (See Meyer, Andre J., assignor.)
Continental Motors Corporation. (See Niven, Archie M., assignor.)
Continental Motors Corporation. (See Timian, Harold H., assignor.)
Conway, John J., assignor to The Acme Shear Company, Bridgeport, Conn. Merchandise display stand. 1,946,779; Feb. 13.
Cook Paint & Varnish Company. (See Heck, Adolf, assignor.)
Cornell, Edward S., jr., Larchmont, N. Y. Shower head. 1,947,407; Feb. 13.
Costello, Joseph C., San Francisco, Calif. Powder loading device. 1,946 780; Feb. 13.
Coultas, Wilbur J., and N. D. Colvin, assignors to Deere & Company, Moline, Ill. Mower. 1,946,541; Feb. 13.
Coupland, Richard C., U. S. Army, Norfolk, Va. Rate mechanism. 1,946,484; Feb. 13.
Coupland Richard C., U. S. Army, Norfolk, Va. Rate mechanism. 1,946,485; Feb. 13.
Courtney, Robert P., Maplewood, N. J., assignor to Bakelite Corporation, New York, N. Y. Laminated product. 1,946,932; Feb. 13.
Covington, General L., Chehalis, Wash. Gold-saving apparatus. 1,947 035; Feb. 13.
Cowan, Jack. (See Harr, Herman H., assignor.)
Cox, Albert B. (See Jurrissen, A. W., Cox, and Wood.)
Cox, Angus M., assignor to American Enka Corporation, Enka, N. C. Package of textile material and making same. 1,947,406; Feb. 13.
Cox John W., assignor to The Gilchrist Company, Newark, N. J. Drink mixer. 1,946,840; Feb. 13.
Cramer, William J., assignor to The Perfect Circle Company, Hagerstown, Ind. Boring machine for piston rings. 1,946,528; Feb. 13.
Crane, Raymond E., and D. E. Gulick, Ford City, Pa. Closet bowl. 1,947 439; Feb. 13.
Crawford Door Company. (See Dautrick, O. L., Hufferd, Casse, and Stephens, assignors.)
Crewdson, Eric, assignor of one-half to Gilbert Gilkes and Gordon Limited, Kendal, England. Rotary fluid-pressure engine. 1,947,334; Feb. 13.
Crispen, Harry L. (See Goss, John C. and Crispen.)
Crocker, Thomas F., Chicago, and V. S. Tharp, deceased, by B. M. Tharp, administratrix, Elmhurst, assignors, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,946,671; Feb. 13.
Crooks, Harold S. (See Dunn, I. L., Wright, and Crooks.)
Crosman, Loring P., Maplewood assignor to Gardner Company, Orange, N. J. Listing calculator. 1,946,572; Feb. 13.
Cross, Grosvenor M. (See Cross, Roderic M., assignor.)
Cross, Roderic M., Minneapolis, Minn., assignor to G. M. Cross, Newton Center, Mass. Spring reaction neutralizer. 1,946 613; Feb. 13.
Crosthwait, David N., jr., assignor to C. A. Dunham Company, Marshalltown, Iowa. Vacuum pump. 1,946,524; Feb. 13.
Crowley, John F., London, England. Can, box, canister, and the like. 1,947,382; Feb. 13.
Crowson, Herbert W. (See Addler, J. H., and Crowson.)
Cullinan, Thomas F., Johnson City, Tenn. Automobile locking mechanism. 1,947 036; Feb. 13.
Cuneo, John B., San Francisco, Calif. Building construction. 1,946,672; Feb. 13.
Curtis Companies. (See Madsen, Sera, assignor.)
Cushing, Adam G., Vancouver, Wash. Vehicle brake. 1,946,486; Feb. 13.
Cutler-Hammer, Inc. (See Hunter, Richard B., assignor.)
Dabrasky, August, Washington, D. C. Fuse setting machine. 1,946,487; Feb. 13.
Dahl, George H. M., Washington, D. C. Machine for making printers' leads and rules. 1,946,488; Feb. 13.
Dale, William F. (See Babendreer, A. I., and Dale.)
Daley James C., assignor to Jefferson Electric Company, Chicago, Ill. Circuit breaker. 1,947,037; Feb. 13.
Dalrymple, Ferdinand H. (See Ward, W. J., Bauerle, and Dalrymple.)
Daly, George F., Johnson City, assignor, by mesne assignments to International Business Machines Corporation, New York, N. Y. Electric interpreter. 1,946,900; Feb. 13.

Daniels, Claude H., Wellesley Hills, Mass. Shoe and making same. 1,947,288; Feb. 13.
Danielson, Daniel B., Milwaukee, Wis. Veneer and backing bond and anchor. 1,946,732; Feb. 13.
Darr, Milford L., Oakland, Calif. Helicopter. 1,946,614; Feb. 13.
Dartmouth College, Trustees of. (See Ames, Adelbert, jr., assignor.)
Dautrick, Owen L., G. H. Hufferd, J. E. Casse, and C. U. Stephens, assignors to Crawford Door Company, Detroit, Mich. Door mounting. 1,946,678; Feb. 13.
Davidson, William H., assignor of one-half to F. W. Hudson, Toronto, Ontario, Canada. Alarm system for banks and the like. 1,946,781; Feb. 13.
Davis, Albert G., Elizabeth, N. J., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Converting petroleum hydrocarbons. 1,947,001; Feb. 13.
Davis, Archibald H., Lincoln, Nebr. Combination universal corner, reverse, and division bar. 1,946,783; Feb. 13.
Davis, Augustine, jr. (See Shield, Paul S., assignor.)
Davis, Charles H., jr., deceased, by Delco-Remy Corporation, Anderson, Ind., assignee. Circuit breaker lever. Re19,083; Feb. 13.
Davis, Ernest, and L. C. Kienzle, assignors to The Prosperity Company, Inc., Syracuse, N. Y. Power pressing machine. 1,947,191; Feb. 13.
Davis, Harry I. (See Taylor, E. R., and Davis.)
Davis, Ruth H., Chicago, Ill. Combination garment. 1,946,782; Feb. 13.
Davison, Samuel W., and M. J. Thompson, Milwaukee, Wis. Plumbing fixture. 1,947,250; Feb. 13.
Dayton, James M., Torrington, Conn. Automatic resetting apparatus for dispensing indicators. 1 947,383; Feb. 13.
Dean, John N. (See Smith, W. S., Garnett, and Dean.)
De Angelo, Bettina, et al. (See Viruette, Joseph D., assignor.)
Deems, Frank E., Birmingham, Ala., assignor to Continental Gin Company. Hull extractor for cotton. 1,946,783; Feb. 13.
Deere & Company. (See Carlson, Oscar F., assignor.)
Deere & Company. (See Coultas, W. J., and Colvin, assignors.)
Deere & Company. (See Hamme, Richard H., assignor.)
Deere & Company. (See Neighbour, Leonard B., assignor.)
Deere & Company. (See Neighbour, L. B., and Thomann, assignors.)
Deere & Company. (See Paul, Talbert W., assignor.)
Defiance Spark Plugs, Incorporated. (See Bartels, Frank, assignor.)
De Jahn, Fredrik W., assignor to J. D. Jenssen, New York, N. Y. Recovering in concentrated form gas existing in dilute admixture with other gases. 1,946,489; Feb. 13.
De Jur-Amsco Corporation. (See Thomas, Leslie G., assignor.)
Delco Aviation Corporation. (See Loudon, Warren P., assignor.)
Delco Products Corporation. (See Aseltine, Fred E., assignor.)
Delco-Remy Corporation. (See Davis, Charles H., jr., assignor.)
De Lin, Martin, assignor to Holland Furnace Company, Holland, Mich. Liquid flow regulating valve. 1,946,734; Feb. 13.
Dellinger, Martin C., assignor of one-half to H. W. Kulp, Lancaster, Pa. Food chopper. 1,947,158; Feb. 13.
Delman, Inc. (See Ellington, Ferdinand W., assignor.)
De Marcillac, André, New Orleans, La. Combination ash tray and paper match package holder. 1,947,384; Feb. 13.
Demarest, Charles S., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Signaling system. 1,946,615; Feb. 13.
Demarest, D. Douglas, et al. (See Grandgent, Louis, assignor.)
De Mattia, Barthold, Passaic, N. J. Vulcanizing press. 1,947,335; Feb. 13.
De Mooy, John, Cleveland, Ohio. Lubricator. 1,947,480; Feb. 13.
De Pew, Chester C., Keyport, N. J., assignor to Whirlpool Incorporated. Game. 1,947,125; Feb. 13.
Detroit Lubricator Company. (See Dillman, Earnest J., assignor.)
Detroit Lubricator Company. (See Russel, Philip S., assignor.)
De Vries, Jacob, Racine, Wis. Sterilizer. 1,946,578; Feb. 13.
De Ybarrondo, Vincent C., assignor to Patco, Inc., Los Angeles, Calif. Tension-operated motion-picture film developing machine. 1,946,841; Feb. 13.
Diamond Chain and Manufacturing Company. (See Mize, George G., assignor.)
Dictaphone Corporation. (See Briggs, Leland S., assignor.)
Diehl Manufacturing Company. (See Naul, James M., assignor.)
Diescher, August P., assignor to Diescher Tube Mills, Inc., Pittsburgh, Pa. Tube-making apparatus. 1,946,933; Feb. 13.
Diescher Tube Mills, Inc. (See Diescher, August P., assignor.)
Dillman, Earnest J., assignor to Detroit Lubricator Company, Detroit, Mich. Temperature control system. 1,946,842; Feb. 13.
Dina, Augusto, Elizabeth, N. J., assignor to International Projector Corporation, New York, N. Y. Reel and magazine supporting pedestal for motion picture machines. 1,946,674; Feb. 13.
Ditto Incorporated. (See Lorentzen, Hans K., assignor.)
Dixon, Thomas J., Chicago, Ill. Game apparatus. 1,946,616; Feb. 13.
Doherty Research Company. (See Morgan, John D., assignor.)
Dole Refrigerating and Machine Company. (See Kleist, Herman W., assignor.)
Dorst, Paul W., assignor of one-tenth to Allen & Allen, Cincinnati, Ohio. Device for taking and projecting motion pictures. 1,946,934; Feb. 13.
Dougherty, Robert J., Ambler, assignor to John Wood Manufacturing Company, Conshohocken, Pa. Thermostatically operative valve. 1,947,431; Feb. 13.
Douglas, Harry A., Bronson, Mich. Lighting system for automotive vehicles. 1,946,965; Feb. 13.
Douglas, Harry A., Bronson, Mich. Electrical connecter. 1,946,966; Feb. 13.
Douglas, Harry A., Bronson, Mich. Assembling means. 1,946,967; Feb. 13.
Dow Chemical Company, The. (See Burdick, E. C., and Gross, assignors.)
Dow Chemical Company, The. (See Grebe, John J., assignor.)
Dow Chemical Company, The. (See Koenders, John W., assignor.)
Draper Corporation. (See Leonard, Harry A., assignor.)
Dreier, Theodore. (See Kilbourne, C. E., and Dreier.)
Dressler, Otto W., Minneapolis, Minn. Automatic draft stabilizer. 1,947,251; Feb. 13.
Dreyfus, Camille, New York, N. Y. Treatment of organic derivative of cellulose fabric. 1,947,002; Feb. 13.
Drissner, Alfred E. (See Eickhoff, T. H., Sanborn, and Drissner.)
Driver, Arthur S., assignor to Partitions, Inc., New York, N. Y. Clip for steel partition. 1,946,675; Feb. 13.
Du Bois, Ralph N., Detroit, Mich., assignor, by mesne assignments, to Continental Aircraft Engine Company. Internal combustion engine. 1,947,252; Feb. 13.
Duffy, James T., jr., Wynnewood, Pa., assignor to Pioneer Suspender Company. Suspenders. 1,946,901; Feb. 13.
Duncan, Robert D., jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Filter system. 1,946,574; Feb. 13.
Dunham, C. A., Company. (See Crosthwait, David N., jr., assignor.)
Dunham Company, The. (See Dunham, Ray E., assignor.)
Dunham, Leroy S., East Orange, and A. F. Robertson, Belleville, assignors to Edison-Splitdorf Corporation, West Orange, N. J. Reversible impulse coupling. 1,947,126; Feb. 13.
Dunham, Ray E., assignor, by mesne assignments, to The Dunham Company, Berea, Ohio. Tillage combine. 1,947,127; Feb. 13.
Dunn, Irwin L., H. F. Wright, and H. S. Crooks, Tulsa, Okla. Pressure recording gauge. 1,946,575; Feb. 13.
Dunn, Irwin L., H. F. Wright, and H. S. Crooks, Tulsa, Okla. Pressure recording gauge. 1,946,576; Feb. 13.
Du Par, Paul W., Los Angeles, Calif. Liquid dispenser. Des. 91,479; Feb. 13.
Du Pont, E. I., de Nemours & Company. (See Howell, Edward T., assignor.)
Du Pont, E. I., de Nemours & Company. (See Izard, Emmette F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Scott, Norman D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Woodward, Harold E., assignor.)
Du Pont Film Manufacturing Corporation. (See Holzwarth, Charles, assignor.)
Du Pont Film Manufacturing Corporation. (See Marasco, Martin, assignor.)
Eastman, Harold L., assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for annealing glassware. 1,947,408; Feb. 13.
Eastman Kodak Company. (See Carter, Rolla N., assignor.)
Eastman Kodak Company. (See Hopkins, Roy S., assignor.)
Eastman Kodak Company. (See Malm, Carl J., assignor.)
Eastman Kodak Company. (See Murray, T. F., and Kenyon, assignors.)
Eastman Kodak Company. (See Riddell, William A., assignor.)
Eastman Kodak Company. (See Seymour, Merrill W., assignor.)
Eastman Kodak Company. (See Smith, Henry B., assignor.)
Eastman Kodak Company. (See Staud, C. J., and Murray, assignors.)
Eastman Kodak Company. (See Taylor, E. R., and Davis, assignors.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
East Ohio Gas Company, The. (See Hagan, William G., assignor.)
Eaton Detroit Metal Company. (See Snell, Lyle K., assignor.)
Eaton, Vincent, East Cleveland, Ohio. Steam heating system. 1,946,676; Feb. 13.
Eaton, Wilfred A., assignor to Bendix Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Sound producing mechanism. 1,947,336; Feb. 13.

Eclipse Aviation Corporation. (See Allen, Joseph W., assignor.)
Eclipse Aviation Corporation. (See Waseige, Charles R., assignor.)
Edison-Splitdorf Corporation. (See Brogger, Ivar W., assignor.)
Edison-Splitdorf Corporation. (See Dunham, L. S., and Robertson, assignors.)
Edwards, Herbert C., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,947,192; Feb. 13.
Ehrey, Wilson H., et al. (See Adams, Ervin, assignor.)
Eickhoff, Theodore H., F. D. Sanborn, jr., and A. E. Drissner, assignors to The National Acme Company, Cleveland, Ohio. Two-way shock absorber. 1,946,525; Feb. 13.
Elbon, Alfred, Bristol, England. Attachment for use in connection with telephones. 1,946,617; Feb. 13.
Elbs, John G. (See Wurfschmidt, Hugo, assignor.)
Electrolux Corporation. (See Bléth, Tom C., assignor.)
Electrolux Servel Corporation. (See Bergholm, H. K., and Ullstrand, assignors.)
Electrons, Inc. (See von Wedel, Carl J. R. H., assignor.)
Ellington, Ferdinand W., Jamaica, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,480; Feb. 13.
Ellington, Ferdinand W., Jamaica, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,481; Feb. 13.
Ellington, Ferdinand W., Jamaica, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,482; Feb. 18.
Ellington, Ferdinand W., Jamaica, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,483; Feb. 13.
Elliott, Irwin, Harmon, assignor to Universal Oven Company, Incorporated, New York, N. Y. Baking oven. 1,946,843; Feb. 13.
Elliott, Thomas, Birmingham, Ala., assignor to Continental Gin Company. Cotton condenser. 1,946,784; Feb. 13.
Ellis, Arthur L., Deep River, assignor to The Waterbury Tool Company, Waterbury, Conn. Reciprocating drive mechanism. 1,947,253; Feb. 13.
Ellis, Charles E., jr., New York, N. Y., assignor, by mesne assignments, to Westinghouse Electric Elevator Company, Chicago, Ill. Safety device for vehicle doors. 1,947,079; Feb. 13.
Ellis-Foster Company. (See Bradley, Theodore F., assignor.)
Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of textile materials. 1,947,039; Feb. 13.
Ellis, George H., and H. C. Olpin, Spondon, near Derby, England, assignors to Celanese Corporation of America. Coloration of materials made with or containing cellulose acetate. 1,947,038; Feb. 13.
Elten, Alfred P., assignor to G. F. Gerdts, Bremen, Germany. Blow-off valve. 1,947,409; Feb. 13.
Emerson, Lilley W., Derry, N. H., assignor of one half to H. A. Freeman, Brooklyn, N. Y. Folding chair. 1,947,410; Feb. 13.
Engh, Walter B., assignor to The Mantle Lamp Company of America, Chicago, Ill. Preheating device for hydrocarbon burners. 1,947,194; Feb. 13.
Enterprise Manufacturing Company of Pennsylvania, The. (See Hess, Frederick P., assignor.)
Ernster, John P., Beverly Hills, Calif. Necktie press. 1,946,844; Feb. 13.
Eureka Photo Mechanical Equipment, Inc. (See Mazzocco, Dante V., assignor.)
Evans, Earl R., Washington, D. C. Electrical power distribution system. 1,947,193; Feb. 13.
Evans, Edwin B., Chicago, Ill. Brake. 1,946,526; Feb. 13.
Evans, Earl R., Washington, D. C. Power directional system. 1,947,289; Feb. 13.
Everett, Edward A., New York, N. Y. Portable metal cutting saw. 1,946,785; Feb. 13.
Evr-Kleen Seat Pad Company. (See Wittcoff, Edward, assignor.)
Fafnir Bearing Company, The. (See Smith, John W., assignor.)
Fageol, Rollie B., Los Angeles, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation. Motor vehicle. 1,947,337; Feb. 13.
Fairbanks, Morse & Co. (See Lack, Arnold S., assignor.)
Fall, Albert P., Toledo, Ohio. Piston ring for internal combustion engines. 1,946,677; Feb. 13.
Fallis, Allgood A. (See Burnett, P. A., Fallis, and Pritchett.)
Faust, Paul E., West Wyomissing, assignor to Narrow Fabric Company, West Reading, Pa. Display package and clamp device therefor. Re19,075; Feb. 13.
Fazendin, Alphonse, Minneapolis, Minn. Door operating mechanism. 1,946,577; Feb. 13.
Featherston, Marion L., Anderson, Ind. Electric lamp socket. 1,946,786; Feb. 13.
Federal Electric Company. (See Barclay, Robert E., assignor.)
Feinberg, Lester S. (See Feinberg, Marcus W. and L. S.)
Feinberg, Marcus W., Chelsea, and L. S. Feinberg, Brighton, Mass. Vehicle wheel. 1,946,787; Feb. 13.
Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic feed mechanism. 1,946,902; Feb. 13.
Field, Fletcher H., assignor to Rhodes Metallic Packing Company, Detroit, Mich. Packing. 1,946,527; Feb. 13.
Field, Fletcher H., assignor to Rhodes Metallic Packing Company, Detroit, Mich. Packing. 1,946,528; Feb. 13.
Finch, James L., Patchogue, and J. W. Conklin, Rocky Point, N. Y., assignors to Radio Corporation of America. Oscillation generation. 1,947,003; Feb. 13.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for pressing soles upon shoes and pad therefor. 1,946,490; Feb. 13.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe and sole positioning mechanism. 1,946,491; Feb. 13.
Firth, David, assignor to Marvel Carbureter Co., Flint, Mich. Automatic by-pass valve. 1,947,040; Feb. 13.
Fisher, George H., assignor to Minneapolis-Honeywell Regulator Company, Wabash, Ind. Humidity and temperature control. 1,946,903; Feb. 13.
Fisher, Oliver P., Rochester, N. Y. Tobacco box. 1,946,845; Feb. 13.
Fitch, Jason A., and C. D. Watson, Youngstown, Ohio. Nut and making the same. 1,946,618; Feb. 13.
Fitzgerald Manufacturing Company, The. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Grinding mill attachment for an electric utility device. 1,947,385; Feb. 13.
Flad, Artur, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Current generating system. 1,946,678; Feb. 13.
Florido, Pablo V., U. S. Navy. Submarine salvaging system. 1,946,492; Feb. 13.
Flynn, Michael J., Chicago, Ill. Tire. Des. 91,484; Feb. 13.
Flynn, Michael J., Chicago, Ill. Tire. Des. 91,485; Feb. 13.
Flynn, Roy L., Philadelphia, Pa., assignor to Container Corporation of America, Chicago, Ill. Display stand. 1,947,195; Feb. 13.
Fonda, Jay C., Sheepshead Bay, assignor of one-half to F. T. Roberts, New York, N. Y. Sound recording on motion picture film. 1,947,290; Feb. 13.
Fonseca, Edward L., assignor to The Wilcolator Company, Newark, N. J. Thermostatic fuel control device. 1,946,679; Feb. 13.
Food Machinery Corporation. (See Butler, Clinton C., assignor.)
Ford, Eugene A., Scarsdale, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Combinational index point sorter. 1,946,904; Feb. 13.
Ford, Eugene A., Scarsdale, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Brush holder for sorting machines. 1,946,905; Feb. 13.
Ford, John B., Schenectady, N. Y., assignor to General Electric Company. Electromagnet. 1,947,291; Feb. 13.
Fordham, Charles F., et al. (See Hyma, Abe, assignor.)
Forged-Trak Co. (See Kuchar, Joseph, assignor.)
Foster Brothers Manufacturing Company. (See Turner, Clark H., assignor.)
Foster, Orville H., jr., et al., administrators. (See Koestlin, Herman F., assignor.)
Foster, Tony E., assignor to Herff Jones Company, Indianapolis, Ind. Making a finger ring. 1,947,254; Feb. 13.
Fox, Christian A., Trenton, N. J. Caster attachment for sleds. 1,947,154; Feb. 13.
Fraim, Samuel R., Lancaster, Pa. Night latch cylinder. 1,947,386; Feb. 13.
Franck, Clarence C., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid pressure governing mechanism. 1,947,128; Feb. 13.
Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Encased electrical apparatus with external heat radiator and making the same. 1,947,196; Feb. 13.
Franklin, Charles S., Buckhurst Hill, and A. W. Whistlecroft, London, England, assignors to Radio Corporation of America. Preventing interference. 1,946,680; Feb. 13.
Franklin, Charles S., Hollywood, Calif., assignor to General Electric Company. Telemetric system. 1,947,255; Feb. 13.
Frappier, Louis S., and E. Boecking, Brooklyn, assignors to International Projector Corporation, New York, N. Y. Support and housing for photo-electric cells. 1,946,681; Feb. 13.
Fraser, Charles E., Broklyn, N. Y., assignor to Willson Products Inc., Reading, Pa. Goggles. 1,947,187; Feb. 13.
Frayer, Lee A., Ravenna, assignor to R. H. Smith, Kent, Ohio. Screw rolling die and method. 1,946,735; Feb 13.
Freed, Meyer L. (See Heineken, W. P., and Freed.)
Freeman, Benjamin W., Cincinnati, Ohio. Shoe ornamenting mechanism. 1,946,935; Feb. 13.
Freeman, Benjamin W., Cincinnati, Ohio. Cut-out machine. 1,947,387; Feb. 13.
Freeman, Harry A. (See Emerson, Lilley W., assignor.)
French, Charles A., Riverside, Ill. Steam generating system. 1,946,682; Feb. 13.
Frey, Frank W., Chicago, assignor of one-fourth to J. S. Paluch, Norwood Park, Ill. Antishrinking device. 1,947,388; Feb. 13.
Frey, James P., Modesto, Calif. Punch board machine. 1,946,736; Feb. 13.

Fried, Earl R., Seattle, Wash. Dental and surgical ejector. 1,947,389; Feb. 13.
Friis, Harald T., Rumson, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Antenna counterpoise system. 1,947,256; Feb. 13.
Fritz, Howard E., Barberton, and J. R. Hoover, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Valve structure. 1,947,257; Feb. 13.
Fritz-Moon Tube Company. (See Burton, James M., assignor.)
Fuller, Frederick L., West Orange, N. J., assignor to International Business Machines Corporation. Sorting machine of the manual control type. 1,946,906; Feb. 13.
Fuller Lehigh Company. (See Black, John E., assignor.)
Fuller, Louis W., assignor to Howe Scale Company, Rutland, Vt. Scale load indicating periscope. 1,947,155; Feb. 13.
Furbush, Frank L., assignor to C. G. Sargents' Sons Corporation, Graniteville, Mass. Drier. 1,947,338; Feb. 13.
Furman, Eugene C., Newport News, and E. F. Heard, Hampton, Va. Sealing leaks in threaded joints. 1,946,619; Feb. 13.
Gabriel, Arthur R., New York, N. Y. Educational method. 1,946,683; Feb. 13.
Gagné, Arthur L., San Francisco, and J. A. Snyder, Mayfield, Calif., assignors to Intertype Corporation, Brooklyn, N. Y. Linerless mold. 1,947,390; Feb. 13.
Gairing, Walter W., Kalamazoo Township, Kalamazoo County, assignor to Nielsen, Inc., Lawton, Mich. Lathe center. 1,946,684; Feb. 13.
Gallagher, Francis E., assignor to Behr-Manning Corporation, Troy, N. Y. Oilstone sharpening apparatus. 1,946,968; Feb. 13.
Galusha, Albert L., Caldwell, N. J. Gas producer. 1,947,339; Feb. 13.
Gardner Company. (See Crosman, Loring P., assignor.)
Garllus, Bernt, assignor to Alexander J. McDonough, Detroit, Mich. Boiler feed water regulator. 1,946,529; Feb. 13.
Garman, George W., Scotia, N. Y., assignor to General Electric Company. Regulating system. 1,947,197; Feb. 13.
Garman, George W., Scotia, N. Y., assignor to General Electric Company. Electrical regulating apparatus. 1,947,292; Feb. 13.
Garnett, Henry J. (See Smith, W. S., Garnett, and Dean.)
Gasoline Products Company. (See Davis, Albert G., assignor.)
Gaudensi, Arthur. (See Hallopeau, F., Boveri, and Gaudensi.)
Gay, Vincent B., Clinton, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for forming tires. 1,947,258; Feb. 13.
Gebhart, Richard G., Chicago, Ill. Traction shoe. 1,946,846; Feb. 13.
General Aniline Works, Inc. (See Bayer, Otto, assignor.)
General Cable Corporation. (See Snyder, Edward, assignor.)
General Electric Company. (See Acheson, Marcus A., assignor.)
General Electric Company. (See Amsden, Ralph D., assignor.)
General Electric Company. (See Bardin, Joseph, assignor.)
General Electric Company. (See Bedford, Burnice D., assignor.)
General Electric Company. (See Born, Fritz, assignor.)
General Electric Company. (See Caldwell, Philip G., assignor.)
General Electric Company. (See Clark, E. W., and Gilbertson, assignors.)
General Electric Company. (See Cockrell, William D., assignor.)
General Electric Company. (See Ford, John B., assignor.)
General Electric Company. (See Frank, John J., assignor.)
General Electric Company. (See Franklin, Charles S., assignor.)
General Electric Company. (See Garman, George W., assignor.)
General Electric Company. (See Hoxie, Earle A., assignor.)
General Electric Company. (See Kelley, Floyd C., assignor.)
General Electric Company. (See Kilbourne, Charles E., assignor.)
General Electric Company. (See Kilbourne, C. E., and Dreier, assignors.)
General Electric Company. (See Langmuir, Irving, assignor.)
General Electric Company. (See Laub Hans, assignor.)
General Electric Company. (See Leibing, Joseph K., assignor.)
General Electric Company. (See Lessmann, Gottfried, assignor.)
General Electric Company. (See Morrill, Wayne J., assignor.)
General Electric Company. (See Nickle, Clifford A., assignor.)
General Electric Company. (See Paul, William E., assignor.)
General Electric Company. (See Pickard, Greenleaf W., assignor.)
General Electric Company. (See Rhea, Thomas R., assignor.)
General Electric Company. (See Riggs, Leland W., assignor.)
General Electric Company. (See Ruder, William E., assignor.)
General Electric Company. (See Sabbah, Camil A., assignor.)
General Electric Company. (See Stöhr, Max, assignor.)
General Electric Company. (See Temple, Elmer J., assignor.)
General Electric Company. (See Thearle, Ernest L., assignor.)
General Electric Company. (See Umansky, Leonid A., assignor.)
General Electric Company. (See Walle, Ludwig S., assignor.)
General Electric Company. (See Willis, Clodius H., assignor.)
General Machinery Corporation. (See Cole, Lyndon C., assignor.)
General Motors Corporation. (See Tormyn, H., and Wietboff, assignors.)
General Motors Corporation. (See Waderlow, Benjamin A., assignor.)
General Motors Research Corporation. (See Gove, Winfield D., assignor.)
General Motors Research Corporation. (See Shomaker, Fred G., assignor.)
General Steel Castings Corporation. (See Pilager, H. M., assignor, and Ayers.)
Gerdts, Gustav F. (See Elten, Alfred P., assignor.)
Gerken, Henry, Oakland, Calif. Hair waving apparatus. 1,946,847; Feb. 13.
Germonpres, John A., assignor to Uni-Flo Grille Corporation, Detroit, Mich. Damper control for wall registers or grilles. 1,946,788; Feb. 13.
Geyger, Wilhelm, Dusseldorf, Germany. Electrical integrating device. 1,947,411; Feb. 13.
Gibbons, Willis A., Montclair, N. J., E. Hazell, New York, N. Y., and A. W. Keen, Passaic, N. J., assignors to Revere Rubber Company, Providence, R. I. Method and apparatus for making elastic filaments. 1,947,080; Feb. 13.
Gideon, Victor, Chicago, Ill., assignor to Wilson-Jones Company. Tab applying machine. 1,947,041; Feb. 13.
Giesenmann, Willy C., Cleveland, Ohio. Drawer guide. 1,946,789; Feb. 13.
Gilbert, Joseph C., assignor of one-third to R. F. Gildehaus, jr., Dallas, Tex. Reservoir inkwell. 1,946,969; Feb. 13.
Gilbertson, Ernest. (See Clark, E. W., and Gilbertson.)
Gilchrist Company, The. (See Cox, John W., assignor.)
Gildhaus, R. J., jr. (See Gilbert, Joseph C., assignor.)
Gilkes, Gilbert, and Gordon Limited. (See Crewdson, Eric, assignor.)
Gilowitz, Benjamin, Bronx, assignor of one-fourth to Morris Bousel, New York, N. Y. Reenforced heel lift and attaching means therefor. 1,946,737; Feb. 13.
Glauber, August and E. F., Lafayette, Calif. Scraper for automobile running boards. 1,946,578; Feb. 13.
Glauber, Emil F. (See Glauber, August and E. F.)
Glennan, William S., Norfolk, Va. Massage device. 1,947,042; Feb. 13.
Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
Glock, Alex, Gardnerville, Nev. Clutch control for mangles. 1,947,156; Feb. 13.
Goble, Bert G., Tulsa, Okla., assignor to W. A. Quigley. Floating stuffing box. 1,947,198; Feb. 13.
Goddard, Paul B., and F. Ketcham, Dearborn, Mich., assignors to Universal Products Co. Inc. Assembling roller bearings. 1,947,004; Feb. 13.
Godner, Bela, et al. (See Adams, Ervin, assignor.)
Goff, James T. (See Hill, C. F., and Goff.)
Goldsmith, Bertram J., Allentown, Pa. Display device. 1,946,848; Feb. 13.
Gollner, Herman E., Buffalo, N. Y. Brake. 1,946,948; Feb. 13.
Goodnow, Charles H., assignor to Container Corporation of America, Chicago, Ill. 1,947,199; Feb. 13.
Goodrich, B. F., Company, The. (See Fritz, H. E., and Hoover, assignors.)
Goodrich B. F., Company, The. (See Gay, Vincent B., assignor.)
Goodrich, B. F., Company, The. (See Homeier, Otto F., assignor.)
Goodrich, B. F., Company, The. (See Leguillon, C. W., and Slabaugh, assignors.)
Goodrich, B. F., Company, The. (See Riley, Ralph E., assignor.)
Gordon, Hayner H., Washington, D. C., assignor to Lite Watchman Corporation, New York, N. Y. Headlight system for automotive vehicles. 1,947,043; Feb. 13.
Gordon, Louis J. (See Bradbury, Clifford C., assignor.)
Gore, Herbert C. (See Józsa, S., and Gore.)
Goss, John C., and H. L. Crispen, Pittsburgh, Pa. Tuyère. 1,946,850; Feb. 13.
Gove, Winfield D., assignor to General Motors Research Corporation, Detroit, Mich. Friction transmission. 1,947,044; Feb. 13.
Grady, Thomas, and F. E. Wochley, Pittsburgh, Pa. Guard for valves. 1,947,081; Feb. 13.
Graham, Thomas, & Co. Inc. (See Ross, Taylor W., assignor.)

Graham, William S., Canton, Ill., assignor to International Harvester Company. Lister planter attachment for tractors. 1,946,685; Feb. 13.
Graham, William S., and G. J. Olson, Canton, Ill., assignors to International Harvester Company. Lister cultivator attachment. 1,946,686; Feb. 13.
Grandgent, Louis, assignor, by mesne assignments, to L. Grandgent, Freeport, and D. D. Demarest, Little Neck, N. Y. Door and operating means therefor. 1,946,970; Feb. 13.
Grant, Garnet P., New York, N. Y. Operating mechanism for cameras. 1,946,687; Feb. 13.
Gray, Alvin E., Binghamton, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Printing mechanism for tabulators. 1,947,259; Feb. 13.
Great Western Electro-Chemical Co. (See Stevenson, Ralph A., assignor.)
Grebe, John J., assignor to The Dow Chemical Company, Midland, Mich. Vaporizing mercury. 1,946,851; Feb. 13.
Green, Estill I. (See Affel, H. A., and Green.)
Green, Thomas L., Oklahoma City, Okla. Sinking caissons. 1,946,579; Feb. 13.
Greenfield Tap and Die Corporation. (See Judge, Franklin, assignor.)
Greenwald, Harold A., Marion, Ind., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Power transmitting device. Re19,080; Feb. 13.
Greenwald, M. S. (See Auerbach, Maurice J., assignor.)
Gregory, Lon S., Tulsa, Okla. Refrigerating and separating gaseous products. 1,946,580; Feb. 13.
Griffis, Ralph A., Ashland, Ky., assignor to The American Rolling Mill Company, Middletown, Ohio. Galvanizing metal sheets. 1,946,936; Feb. 13.
Gross, William H. (See Burdick, E. C., and Gross.)
Groth, Bertil S. (See Blomqvist, G. H., and Groth.)
Groth, Bertil S., and G. H. Blomqvist, assignors to Kemiska Kontrollbyran Aktiebolag, Stockholm, and Aktiebolaget A. Heyman, Vargarda, Sweden. Producing furfural. 1,946,688; Feb. 13.
Grubman, Leo J., Belle Harbor, assignor to Margon Corporation, New York, N. Y. Eye set and rubber doll's head utilizing the same. 1,947,293; Feb. 13.
Grubman, Leo J., Belle Harbor, assignor to Margon Corporation, New York, N. Y. Movable eye set for dolls. 1,947,294; Feb. 13.
Gudzen, Herbert T. (See Walton, R. C., and Gudzen.)
Guenst, William, Philadelphia, Pa. Etching machine. 1,947,391; Feb. 13.
Gulan, Stanley, sr. and S. P., jr., Kenosha, Wis. Adjustable spindle pin. 1,946,738; Feb. 13.
Gulan, Stanley P., jr. (See Gulan, Stanley, sr., and S. P., jr.)
Gulick, David E. (See Crane, R. E., and Gulick.)
Gump, B. F., Co. (See Allison, C. F., and Naeher, assignors.)
Guntermann, Wilhelm, and K. Stoll, Berlin, Germany. Hollow rod. 1,947,392; Feb. 13.
Gunther, Konrad, Detroit, Mich. Safety bathing garment and life preserver. 1,947,005; Feb. 13.
Guyer, Jesse A., assignor to Phillips Petroleum Company, Bartlesville, Okla. Treating hydrocarbons to produce carbon black. 1,946,739; Feb. 13.
Haas, Louis W., and A. O. Renner, assignors, by mesne assignments, to J. R. Short Milling Company, Chicago, Ill. Reducing oil content of soya. 1,947,200; Feb. 13.
Haas, Paul C., Mendon, Mich. Composite bearing. 1,946,790; Feb. 13.
Hacker, Frank J., assignor to Tate-Jones & Company, Incorporated, Leetsdale, Pa. Luminous flame gas burner. 1,947,201; Feb. 13.
Hagan, William G., Shaker Heights, assignor to The East Ohio Gas Company, Cleveland, Ohio. Gas burner. 1,946,791; Feb. 13.
Haggerty, Harry S., Detroit, Mich. Sheet paper package. 1,946,689; Feb. 13.
Haglund, Hakon H., Flushing, and R. V. Morgenstern, Irvington, assignors to The Western Union Telegraph Company, New York, N. Y. System for repeating or relaying telegraph signals. 1,946,907; Feb. 13.
Haines, George D., Park Ridge, Ill., assignor to Porcelain Tile Corporation, Wilmington, Del. Tiled construction. 1,946,690; Feb. 13.
Hall Brothers Company. (See Hall, Ray E. and C. W., assignors.)
Hall, Claude C., Portland, Oreg. Apparatus for molding sundry materials. 1,946,740; Feb. 13.
Hall, C'ide W. (See Hall, Ray E. and C. W.)
Hall, Ray E. and C. W., assignors to Hall Brothers Company, Webster City, Iowa. Tank gauge. 1,947,260; Feb. 13.
Hallawell, Walter S., Milan, Ind. Leg construction for furniture. 1,946,620; Feb. 13.
Hallopeau, François, Paris, France, W. Boveri, Mannheim, Germany, and A. Gaudenzi, Baden, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Control grid structure for rectifiers. 1,947,412; Feb. 13.
Hallowell, Howard T., assignor to Standard Pressed Steel Co., Jenkintown, Pa. Sign construction. 1,947,341; Feb. 13.
Hallwood, Thomas H., Columbus, Ohio, assignor of one-half to W. D. Belknap. Paper cutting mechanism. 1,947,340; Feb. 13.
Hamilton Beach Manufacturing Company. (See Nielsen, Emanuel, assignor.)
Hamm, William S., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Curtain roller bracket. 1,946,852; Feb. 13.
Hamme, Richard H., Oxford, N. C., assignor to Deere & Company, Moline, Ill. Cotton harvester. 1,946,741; Feb. 13.
Hammerling, Emanuel. (See Richards, Donald A., assignor.)
Hanch, Charles C., Chicago, Ill. Piston. 1,946,530; Feb. 13.
Handelan, Daniel, Minneapolis, Minn. Humidifier. 1,946,792; Feb. 13.
Haney, Martin J., et al. (See Adams, Ervin, assignor.)
Hanson, Soren S., Brooklyn, N. Y. Muffler for internal combustion engines. 1,946,908; Feb. 13.
Hardesty, Francis D., Ferndale, assignor, by mesne assignments, to Ternstedt Manufacturing Company, Detroit, Mich. Locking device. Re19,073; Feb. 13.
Hargroves, Willis W., assignor to Planters Manufacturing Co., Inc., Portsmouth, Va. Basket cover fastener. 1,947,393; Feb. 13.
Harr, Herman H., assignor, by mesne assignments, to J. Cowan, Newark, N. J. Beer cooling and dispersing apparatus. 1,946,691; Feb. 13.
Harris, Joseph P., Madison, Wis. Voting and counting machine. 1,947,157; Feb. 13.
Harris, Ora E., Kearney, Nebr. Ice cream dipper. Re19,084; Feb. 13.
Harter, Isaac, New York, N. Y., assignor to The Babcock & Wilcox Tube Company, West Mayfield, Pa. Heating furnace. 1,946,971; Feb. 13.
Hartford-Empire Company. (See Eastman, Harold L., assignor.)
Hartford-Empire Company. (See Wadman, Harold A., assignor.)
Hartford Faience Company. (See Thomas, Noah T., assignor.)
Hartley, Arthur J., Peoria, Ill. Grain pick-up mechanism. 1,946,692; Feb. 13.
Hartley, Charles P., Washington, D. C., dedicated to the free use of the public. Wheel. 1,947,261; Feb. 13.
Hartmann Trunk Company. (See Ritter, Julius, jr., assignor.)
Hartmann Trunk Company. (See Ritter, J., jr., and Chesnut, assignors.)
Harvey, Leo M. (See Thompson, Robert H., assignor.)
Haselton, Merton L., assignor to The Teleregister Corporation, New York, N. Y. Electrical signaling. 1,946,531; Feb. 13.
Haslacher, Alfred B., San Francisco, Calif. Refrigeration mechanism. 1,947,082; Feb. 13.
Haslacher, Alfred B., San Francisco, Calif. Container. 1,947,083; Feb. 13.
Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Rack for refrigerators, ovens, and the like. 1,946,532; Feb. 13.
Hay, Percy D., assignor to Coastal Contracting Co. Inc., Charleston, S. C. Apparatus for forming a covering or sleeve of plastic material upon a wooden pile. 1,947,413; Feb. 13.
Hayden, Harold R., New York, N. Y. Signal repeating system. 1,947,084; Feb. 13.
Hays, Albert B. (See Thomas, H. T., and Hays.)
Hazell, Eardley. (See Gibbons, W. A., Hazell, and Keen.)
Head, Robert, Yonkers, assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y. Phonograph record cutter and playback combination. 1,946,581; Feb. 13.
Heard, Edmund F. (See Furman, E. C., and Heard.)
Heck, Adolf, assignor to Cook Paint & Varnish Company, Kansas City, Mo. Manufacturing coating composition. 1,947,414; Feb. 13.
Heck, Adolf, assignor to Cook Paint & Varnish Company, Kansas City, Mo. Coating composition and making the same. 1,947,415; Feb. 13.
Heck, Adolf, assignor to Cook Paint & Varnish Company, Kansas City, Mo. Diene resins and making the same. 1,947,416; Feb. 13.
Heermance, Clayton J. (See Beidler, Ford E., assignor.)
Heineken, William P., Dongan Hills, and M. L. Freed, New York, N. Y., assignors to Rufert Chemical Company, Dover, Del. Process and apparatus for the preparation of metallic salts. 1,947,006; Feb. 13.
Heinze, Paul. (See White, P. W., and Heinze.)
Heinze, Paul, assignor to Parva Products Company, Chicago, Ill. Buckle. 1,947,394; Feb. 13.
Heltzel, John N., Warren, Ohio. Machine for and producing joints or traffic lines in concrete. 1,946,972; Feb. 13.
Henry, Harry H., assignor to Monark Battery Company, Inc., Chicago, Ill. Battery terminal. 1,947,158; Feb. 13.
Herff Jones Company. (See Foster, Tony E., assignor.)
Hess, Frederick P., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Grinding mill. 1,947,342; Feb. 13.
Hetzer, Russell A., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Apparatus for treating fabric. 1,947,208; Feb. 13.
Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
Higgin Manufacturing Company, The. (See Penderey, Edward W., assignor.)

Higgin Manufacturing Company, The. (See Traut, Clifford, assignor.)
Hile, Leslie M., Benton Harbor, Mich. Basket handle. 1,946,793; Feb. 13.
Hile, Leslie M., Benton Harbor, Mich. Wire handle for baskets. 1,946,794; Feb. 13.
Hill, Charles F., Edgewood, and J. T. Goff, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical apparatus. 1,947,085; Feb. 13.
Hillard, Henry F. (See Butler, W. L., and Hillard.)
Hillyard, Newton S., St. Joseph, Mo. Soap dispenser. 1,947,086; Feb. 13.
Himmel, Robert, Chicago, Ill. Radio cabinet. Des. 91,486; Feb. 13.
Hingst, Henry W., Emerson, Nebr. Staple pulling tool. 1,946,742; Feb. 13.
Hodgman, Frederick S., Glen Rock, N. J., assignor to Sparry Gyroscope Company, Inc., Brooklyn, N. Y. Electrical steering device for ships. 1,946,693; Feb. 13.
Hoffman, Erwin F., Madison, Wis. Baby incubator. 1,947,007; Feb. 13.
Hoffman, Roscoe C., Detroit, Mich. Power plant. 1,947,045; Feb. 13.
Hoffman, Roscoe C., Detroit, Mich. Universal joint. 1,947,046; Feb. 13.
Hofmann, Hugo, Johnson City, Tenn., assignor to American Bemberg Corporation, New York, N. Y. Apparatus for the production of artificial threads and the like. 1,947,159; Feb. 13.
Holland Furnace Company. (See De Lin, Martin, assignor.)
Hollerith, Herman, jr., Riverton, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Control apparatus. 1,946,743; Feb. 13.
Hollister, Charlotte A., Minneapolis, Minn. Process and apparatus for making rugs. 1,946,853; Feb. 13.
Holst, Gilles, Eindhoven, Netherlands. Electric discharge tube. 1,947,417; Feb. 13.
Holzwarth, Charles, Parlin, N. J., assignor to Du Pont Film Manufacturing Corporation, New York, N. Y. Treating photographic film. 1,947,160; Feb. 13.
Homeier, Otto F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Extruding machine head. 1,947,202; Feb. 13.
Hood Rubber Company, Inc. (See Bodle, Virgil H., assignor.)
Hoover, John R. (See Fritz, H. E., and Hoover.)
Hoover, Ray, and E. R. Wheeler, assignors to The Western Union Telegraph Company, New York, N. Y. Stock quotation board. 1,946,909; Feb. 13.
Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic printing apparatus. 1,946,621; Feb. 13.
Horner, Robert K., Flint, Mich. Method and apparatus of refrigeration. 1,946,854; Feb. 13.
Horns, Edward H., Waterloo, Iowa, assignor of one-half to W. F. Horns, Bemidji, Minn. Camera. 1,946,855; Feb. 13.
Horns, Winfield F. (See Horns, Edward H., assignor.)
Horton, George T., assignor to Chicago Bridge & Iron Company, Chicago, Ill. Tank. 1,946,493; Feb. 13.
Horton, George T., assignor to Chicago Bridge & Iron Company, Chicago, Ill. Tank construction. 1,946,494; Feb. 13.
Hotopp, Alfred H., jr., Caldwell, N. J., assignor to Wired Radio, Inc., New York, N. Y. Radio receiving system. 1,946,582; Feb. 13.
Hott, Jon Von K., and W. E. Webster, assignors to The Joyce-Cridland Company, Dayton, Ohio. Hydraulic lift for automobiles and the like. 1,946,937; Feb. 13.
House, Roy W., et al. (See Jones, James M., assignor.)
Houston, Cecil L., Dallas, Tex. Portable indoor clothes-drying rack. 1,946,856; Feb. 13.
Houston Compress Company. (See Johnson, J. M., and Sinclair, assignors.)
Howard, James H., Houston, Tex., assignor to J. H. McEvoy & Company. Setting tool. 1,947,262; Feb. 13.
Howe Scale Company. (See Fuller, Louis W., assignor.)
Howell, Edward T., Milwaukee, Wis., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company. Vat dyestuffs of the dibenzanthrone series and preparing the same. 1,947,047; Feb. 13.
Hoxie, Earle A., Lansdowne, Pa., assignor to General Electric Company. Control system. 1,947,204; Feb. 13.
Hruska, Joseph J., Milwaukee, Wis. Tire. 1,946,622; Feb. 13.
Hudson, Frederick W. (See Davidson, William H., assignor.)
Hudson-Sharp Machine Company. (See Schueler, Frederick C., assignor.)
Huff, Edward S., Dearborn, Mich. Gas torch. 1,947,087; Feb. 13.
Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 1,946,938; Feb. 13.
Hufferd, George H. (See Dautrick, O. L., Hufferd, Casse, and Stephens.)
Hunter, David E., assignor to The Shaw-Walker Company, Muskegon, Mich. Ornamental sheet metal structure and producing the same. 1,946,694; Feb. 13.
Hunter, Richard B., Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Motor controller. 1,947,263; Feb. 13.
Huston, Ralph C., East Lansing, Mich., and H. D. Lightbody, Pittsburgh, Pa., assignors to The State Board of Agriculture of the State of Michigan. Stable vitamin preparation. 1,947,432; Feb. 13.
Hutchings, Edward W., Perry, Fla. Fabricating board. 1,947,395; Feb. 13.
Hyma, Abe, assignor of one-fourth to G. Yonkman, one-fourth to C. F. Fordham, and one-fourth to H. F. Johnson, Grand Rapids, Mich. Carburetor device. 1,947,129; Feb. 13.
Ilberg, Waldemar, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Spark gap. 1,946,695; Feb. 13.
Imperial Chemical Industries Limited. (See Mendoza, M., Murray, and Briggs, assignors.)
Individual Drinking Cup Company. (See Carew, Herman, assignor.)
Ingersoll-Rand Company. (See Jimerson, F. A., and Allen, assignors.)
Ingersoll-Rand Company. (See McHugh, Anthony L., assignor.)
Ingersoll-Rand Company. (See Smith, William A., sr., assignor.)
Ingersoll-Rand Company. (See Trumpler, William E., assignor.)
International Business Machines Corporation. (See Bryce, James W., assignor.)
International Business Machines Corporation. (See Daly, George F., assignor.)
International Business Machines Corporation. (See Ford, Eugene A., assignor.)
International Business Machines Corporation. (See Fuller, Frederick L., assignor.)
International Business Machines Corporation. (See Gray, Alvin E., assignor.)
International Business Machines Corporation. (See Lake, C. D., and Shores, assignors.)
International Business Machines Corporation. (See Maul, Michael, assignor.)
International Business Machines Corporation. (See Peirce, John R., assignor.)
International Communications Laboratories, Inc. (See Mason, Roger, assignor.)
International Harvester Company. (See Baker, David B., assignor.)
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Graham, William S., assignor.)
International Harvester Company. (See Graham, W. S., and Olson, assignors.)
International Harvester Compay. (See Lindgren, A. C., and Raney, assignors.)
International Harvester Company. (See Welty, Albert B., assignor.)
International Motor Company. (See Masury, Alfred F., assignor.)
International Motor Company. (See Matthews, Joseph L., assignor.)
International Paper Company. (See Bebie, Edwin W., assignor.)
International Projector Corporation. (See Dina, Augusto, assignor.)
International Projector Corporation. (See Frappier, L. S., and Boecking, assignors.)
International Projector Corporation. (See Kindelmann, Albert, assignor.)
Intertype Corporation. (See Gagné, A. L., and Snyder, assignors.)
Iowa State College of Agriculture and Mechanic Arts. (See Sweeney, Orland R., assignor.)
Irish, Louis H., Byers, Tex. Axle mounting. 1,946,624; Feb. 13.
Iron Fireman Manufacturing Company. (See Sammons, Edward C., assignor.)
Irwin, Hiram D., Beckley, W. Va. Display tray assembly. 1,946,623; Feb. 13.
Isaacs, Charles C., Pittsburg, Kans. Shears sharpener. 1,946,625; Feb. 13.
Izard, Emmette F., Elsmere, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose derivative composition. 1,947,008; Feb. 13.
Jaeger, Edward T., Rockville Center, assignor to Oneida Paper Products Incorporated, Brooklyn, N. Y. Paper manufacturing machine. 1,947,205; Feb. 13.
Jaeger, Gebhard, assignor to The Jaeger Machine Company, Columbus, Ohio. Truck concrete mixer. Re19,085; Feb. 13.
Jaeger Machine Company, The. (See Jaeger, Gebhard, assignor.)
Jaite, Roy W., Lakewood, Ohio. Machine for making paper bags. 1,947,396; Feb. 13.
Jefferson Electric Company. (See Daley, James C., assignor.)
Jeffrey Manufacturing Company, The. (See Muller, Ernst F., assignor.)
Jenssen, Jacob D. (See de Jahn, Fredrik W., assignor.)
Jessup & Moore Paper Co., The. (See Plumstead, Joseph E., assignor.)
Jiffy Lubricator Company. (See Johnson, J. S. and A., assignors.)
Jimerson, Francis A., Athens, and F. V. Allen, Sayre, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Governor. 1,947,009; Feb. 13.
Joerissen, Carl A., Washington, D. C. Typewriting machine. Re19,076; Feb. 13.

Johnson, Arthur E., Oak Park, and J. F. Lindsey, assignors to Wm. Wrigley Jr. Company, Chicago, Ill. Package wrapping machine. 1,946,697; Feb. 13.
Johnson, August. (See Johnson, John S. and A.)
Johnson, Gustav, West Roxbury, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Separable snap fastener stud. 1,947,180; Feb. 13.
Johnson, Herbert F., et al. (See Hyma, Abe, assignor.)
Johnson, John C., Birmingham, Ala. Combination cooking utensil. Des. 91,487; Feb. 13.
Johnson, John M., and H. L. Sinclair, assignors to Houston Compress Company, Houston, Tex. Self-loading portable elevator. 1,947,264; Feb. 13.
Johnson, John S., deceased, and A. Johnson, Fargo, N. Dak.; T. L. Johnson, administrator of said J. S. Johnson, assignors to Jiffy Lubricator Company. Adjustable and releasable pressure grease gun. 1,947,088; Feb. 13.
Johnson, Martin E., Chicago, Ill. Combined nozzle and spraying device. 1,946,696; Feb. 13.
Johnson, Theodore L., administrator. (See Johnson, John S. and A.)
Johnson, W. N., Automobile Sheet Metal Works. (See Scott, Elisha H., assignor.)
Johnston, James W., Manchester, N. H., assignor to North American Holding Corporation, Syracuse, N. Y. Marking mechanism for grading machines. 1,946,583; Feb. 13.
Johnston, Marriott T., assignor to Walgreen Co., Chicago, Ill. Knockdown counter fixture. 1,946,533; Feb. 13.
Johnston, Randolph J., Fresno, Calif. Stopcock. 1,946,745; Feb. 13.
Jonas, Frank D., East Williston, assignor to Oxford Filing Supply Co., Brooklyn, N. Y. Open-ended container. 1,946,795; Feb. 13.
Jones, Carl G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pipe welding. 1,947,089; Feb. 13.
Jones, Charles L. (See Beckett, R. V., and Jones.)
Jones, James M., assignor of one-fifth to R. W. House, one-fifth to W. Marcum, jr., and one-fifth to J. M. Lyttle, Manchester, Ky. Air compressor. 1,946,857; Feb. 13.
Jones, Kenneth D., and W. R. Thomas, Munhall, Pa. Filter. 1,946,744; Feb. 13.
Jones, Robcliff V., Bronxville, assignor to The Borden Company, New York, N. Y. Frozen confection. 1,947,010; Feb. 13.
Jones, W. Bartlett, Chicago, Ill. Ice-box cake and the like. 1,946,495; Feb. 13.
Joyce-Cridland Company, The. (See Hott, I. von K., and Webster, assignors.)
Jósa, Stephen, New York, and H. C. Gore, Scarsdale, N. Y., assignors to Standard Brands Incorporated, Dover, Del. Starch paste. 1,947,295; Feb. 13.
Judge, Franklin, Greenfield, Mass., assignor to Greenfield Tap and Die Corporation. Pilot for reamers. 1,946,584; Feb. 13.
Jurgensen, Vola M., Philadelphia, Pa., assignor to The Kendall Company, Boston, Mass. Sanitary napkin. 1,946,626; Feb. 13.
Jurrissen, Alphonsus W., Wilmington, A. B. Cox, Walnut Park, Calif., and A. M. Wood, Miri, Sarawak, Borneo, assignors to Universal Oil Products Company, Chicago, Ill. Cracking hydrocarbon oils. 1,946,939; Feb. 13.
Juvinall, Orla E., assignor of one-half to G. R. Martin, Danville, Ill. Meter wire cover. 1,946,796; Feb. 13.
Kafka, Eduard W. (See Bauer, F., and Kafka.)
Kahle, Frank J., Huntington Park, and R. W. Baer, Los Angeles, Calif. Adjustable front axle for automobiles and the like. 1,946,858; Feb. 13.
Kahn, Julius, assignor to Truscon Steel Company, Youngstown, Ohio. Floor construction. 1,947,418; Feb. 13.
Kapp, Reginald O., and C. G. Carrothers, London, England. Protective arrangement for electric power lines. 1,946,859; Feb. 13.
Karrer, Hans, Uswil, Switzerland. Machine for the wet treatment of fabrics. 1,946,627; Feb. 13.
Karthäuser, Bruno, Berlin, Germany, assignor to American Engineering Company, Philadelphia, Pa. Chute for material to be shot. 1,947,011; Feb. 13.
Kassay, Martin, Tarentum, Pa., assignor of one-half to E. Cimbora, Avoca, N. Y. Wood sawing machine. 1,947,397; Feb. 13.
Keen, Alexis W. (See Gibbons, W. A., Hazell, and Keen.)
Keen, Alexis W., Passaic, N. J., assignor to Revere Rubber Company, Providence, R. I. Apparatus for making rubber filaments. 1,947,090; Feb. 13.
Keller, Charles G., Poughkeepsie, N. Y. Brake. 1,947,091; Feb. 13.
Keller, Hans, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Rectifier control system. 1,946,973; Feb. 13.
Keller, William H., Inc. (See Shaff, Ernest H., assignor.)
Kelley, Floyd C., Schenectady, N. Y., assignor to General Electric Company. Cemented columbium carbide. 1,947,206; Feb. 13.
Kellogg Company. (See McKay, Eugene H., assignor.)
Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Automatic stop for machine belt type. 1,946,534; Feb. 13.
Kelly-Springfield Tire Company, The. (See Roe, Mark W., assignor.)
Kelvinator Corporation. (See Greenwald, Harold A., assignor.)
Kemiska Kontrollbyrån Aktiebolag, et al. (See Blomqvist, G. H., and Groth, assignors.)
Kemiska Kontrollbyrån Aktiebolag, et al. (See Groth, B. S., and Blomqvist, assignors.)
Kemp, Colin G., and L. G., Southampton, England, assignors to Radio Corporation of America. Superheterodyne radioreceiver. 1,946,746; Feb. 13.
Kemp, Leslie G. (See Kemp, Colin G. and L. G.)
Kendall Company, The. (See Jurgensen, Vola M., assignor.)
Kent, Harrison H. (See Reed, H. D., and Kent.)
Kenyon, William O. (See Murray, T. F., and Kenyon.)
Ketcham, Frank. (See Goddard, P. B., and Ketcham.)
Keyser, Johann J., Aarau, Switzerland. Device for lifting and lowering the spindle and ring beams of spinning, twisting, and the like machines. 1,946,699; Feb. 13.
Kielland, Jakob de R., Vinderen, near Oslo, Norway. Self-locking thread system. 1,946,860; Feb. 13.
Kienzle, Lester C. (See Davis, E., and Kienzle.)
Kilbourne, Charles E., Schenectady, N. Y., assignor to General Electric Company. System of motor control. 1,947,266; Feb. 13.
Kilbourne, Charles E., Schenectady, N. Y., and Theodore Dreier, Winter Park, Fla., assignors to General Electric Company. System of motor control. 1,947,265; Feb. 13.
Kimmel, George P. (See Lewy, Harry, assignor.)
Kindelmann, Albert, Floral Park, assignor to International Projector Corporation, New York, N. Y. Shutter shaft support. 1,946,700; Feb. 13.
Kingman, Russell B., Orange, N. J. Soluble ink fountain pen. 1,947,092; Feb. 13.
Kinney, Fay D., Southbridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing machine. 1,946,797; Feb. 13.
Kirby, Charles H., assignor to Marvel Carburetor Company, Flint, Mich. Vacuum controlled carburetor heater. 1,947,048; Feb. 13.
Kistler, Herman E., Wheeling, W. Va. Devices for supporting advertising matter in tires. 1,946,861; Feb. 13.
Kleist, Herman W., assignor to Dole Refrigerating and Machine Company, Chicago, Ill. Refrigerating apparatus. 1,946,496; Feb. 13.
Kloeb, Boniface R. and R., Portsmouth, Ohio. Toy. 1,947,343; Feb. 13.
Kloeb, Ruby. (See Kloeb, Boniface R. and R.)
Knapp, Leland G., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Washing machine. 1,946,535; Feb. 13.
Knapp-Monarch Company. (See Smith, John E., assignor.)
Knittel, Paul S., Jersey City, N. J. Crushing and grinding machine. 1,946,701; Feb. 13.
Knowles, Dewey D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Converter. 1,947,098; Feb. 13.
Koch, Earl L., Chicago, Ill., assignor, by mesne assignments, to E. L. Koch Holding Corporation, New York, N. Y. Amplifying system. 1,947,049; Feb. 13.
Koch, Earl L., Holding Corporation. (See Koch, Earl L., assignor.)
Koch, Levi O., Soldiers Grove, Wis. Corn-shock snubber and lifter. 1,946,974; Feb. 13.
Koch, Louis A., jr., Louisville, Ky. Ground terminal. 1,946,862; Feb. 13.
Koehring Company. (See Lichtenberg, Erich H., assignor.)
Koehring Company. (See Tranaas, Emil L., assignor.)
Koenders, John W., assignor to The Dow Chemical Company, Midland, Mich. Friable caustic soda and producing same. 1,946,863; Feb. 13.
Koestlin, Herman F., Detroit, Mich., deceased, O. H. Foster, jr., and T. J. Richter, administrators. Grinding machine. 1,946,864; Feb. 13.
Kohler, Arthur G., New York, N. Y. Dishwashing machine. 1,946,536; Feb. 13.
Kollsman, Paul, New York, N. Y. Altimeter. Re91,079; Feb. 13.
Komarek, Gustav, assignor to Berwind Fuel Co. of Delaware, Chicago, Ill. Coking coal. 1,946,628; Feb. 13.
Konoff, Alexander, assignor, by mesne assignments, to Margon Corporation, New York, N. Y. Rolling eye set for dolls. 1,947,296; Feb. 13.
Koama, Andrew R., Bayonne, N. J. Combination jack for two lasts. 1,947,975; Feb. 13.
Krogh, Anker E., assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 1,947,297; Feb. 13.
Kubin, Frank, Wauwatosa, Wis. Transfer and preparing and applying designs. 1,946,865; Feb. 13.
Kuchar, Joseph, assignor to Forged-Trak Co., Chicago, Ill. Track for tracklaying wheels. 1,946,798; Feb. 13.
Kuchar, Joseph, assignor to Forged-Trak Co., Chicago, Ill. Track for track laying wheels. 1,946,799; Feb. 13.
Kulp, Harry W. (See Dellinger, Martin C., assignor.)
Kummerer, Wilhelm, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for quarts oscillators. 1,946,698; Feb. 13.
Kuppersmith, Fred W., Bloomington, Ill. Quick-clamping box type jig. 1,946,537; Feb. 13.
Kussmaul, Walter. (See Stoll, A., Binkert, and Kussmaul.)
Kuzelewski, Albert R., assignor to American Engineering Company, Philadelphia, Pa. Multistage reversible variable discharge pump. 1,947,050; Feb. 13.

Kuzelewski, Albert R., assignor to American Engineering Company, Philadelphia, Pa. Hydraulic transmission. 1,947,051; Feb. 13.
Kyle, Joseph L., Glendale, Long Island, N. Y., assignor to Whittenton Manufacturing Company, Boston, Mass. Blanket. Des. 91,488; Feb. 13.
L. G. S. Devices Corporation. (See Starkey, William C., assignor.)
Laborda, Richard, Brooklyn, N. Y. Ladder. 1,946,747; Feb. 13.
Lack, Arnold S., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Power transmission coupling. 1,947,052; Feb. 13.
Lake, Clair D., Binghamton, and P. Shores, Johnson City, assignors, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Card handling machine. 1,946,910; Feb. 13.
Lane, George W. (See Reiter, D. I., and Lane.)
Lang, Niels, Lakewood, Ohio. Reflector. 1,947,344; Feb. 13.
Langdon, Otho O. (See Sample, W. M., and Langdon.)
Lange, Morris, Cleveland, Ohio. Grave lining. 1,946,976; Feb. 13.
Lange, Paul H., Bridgeport, Conn. Key opening sanitary can. 1,947,012; Feb. 13.
Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Heating process and apparatus. 1,947,267; Feb. 13.
Langston, Samuel M., Co. (See Sieg, Earl, assignor.)
Lanquetin, Roger, Neuilly-sur-Seine, France. Apparatus for indicating the ratio between the linear function of two temperatures. 1,946,702; Feb. 13.
Largioli, Remo, et al. (See Adams, Ervin, assignor.)
Laub, Hans, Berlin-Wilmersdorf, Germany, assignor to General Electric Company. Electrical distribution. 1,947,268; Feb. 13.
Lauchin, George Y., Milwaukee, Wis. Windshield heater. 1,947,013; Feb. 13.
Laughlin, Guy, Birmingham, Mich. Collet chuck. 1,946,629; Feb. 13.
Leary, Edward T., et al. (See Viruette, Joseph D., assignor.)
Leathers, Ward, Haworth, N. J., assignor to The Quadrex Corporation. Floor aligning sweeper. 1,946,585; Feb. 13.
Lee, Richard V., Calistoga, Calif. Safety device. 1,946,940; Feb. 13.
Lequillon, Charles W., Akron, and W. H. Slabaugh, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for inserting curing bags in tires. 1,947,270; Feb. 13.
Leib, August, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Direction finder compensator. 1,946,703; Feb. 13.
Leibfried, William. (See Neuschots, R. A., and Leibfried.)
Leibing, Joseph K., Scotia, N. Y., assignor to General Electric Company. Magneto-electric machine. 1,947,269; Feb. 13.
Leiong, Lucien, Inc. (See Stein, Joseph S., assignor.)
Lemm, Bonnie E., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Automobile radiator ornament or similar article. Des. 91,489; Feb. 13.
Lemmon, Norman E., and A. B. Brown, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Revivifying filter clay. 1,946,748; Feb. 13.
Lempco, Products, Inc. (See Blasek, John Y., assignor.)
Lenke, George H., assignor of one-third to J. J. Ohlis, and one-third to J. H. Old Cicero, Ill. Super glass vault light construction. 1,946,977; Feb. 13.
Leonard, Harry A., assignor to Draper Corporation, Hopedale, Mass. Yarn twisting apparatus for fancy yarns. 1,946,941; Feb. 13.
Lerch, Gustav, Oakland, Calif., assignor to Marchant Calculating Machine Company. Calculating machine. 1,946,942; Feb. 13.
Lessmann, Gottfried, Rehbrucke, Zauche, Germany, assignor to General Electric Company. Electric incandescent lamp. 1,947,207; Feb. 13.
Levett, Alexander, Mount Vernon, N. Y. Buffer wheel. 1,946,630; Feb. 13.
Levow, David, New York, N. Y., and A. Ratner, East Orange, N. J., assignors, by mesne assignments, to The Cheney Company. Interlocking metal flashing. 1,947,131; Feb. 13.
Levy, Antonina. (See Levy, Roman J., assignor.)
Levy, Roman J., assignor to Antonina Levy, New York, N. Y. X-ray apparatus. 1,947,014; Feb. 13.
Lewis, William F., assignor to Lisk Manufacturing Company, Canandaigua, N. Y. Strainer. 1,946,943; Feb. 13.
Lewy, Daniel. (See Butusov, Emil P., assignor.)
Lewy, Harry, Baltimore, Md., assignor of one-half to G. P. Kimmel, Washington, D. C. Advertising display card. Des. 91,490; Feb. 13.
Licht, Arthur, Fulton, S. Dak. Lawn mower sharpener. 1,947,298; Feb. 13.
Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Automatic tandem drum paver. 1,946,944; Feb. 13.
Lien, Anton O., Louisburg, assignor of one-half to W. L. Nelson, Minneapolis, Minn. Valve for the pouring nozzles of liquid containers. 1,946,978; Feb. 13.
Lightbody, Howard D. (See Huston, R. C., and Lightbody.)
Lillard, William W., Englewood, N. J. Concrete mixing method. 1,947,345; Feb. 13.
Lincoln Electric Company, The. (See Chapman, Everett, assignor.)
Lincoln Engineering Company. (See Linders, William Z., assignor.)
Lindberg, Ivar F., West Allis, Wis., and W. E. Yunker, Springfield, Ill., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Method of and apparatus for assembling chain structures. 1,946,911; Feb. 13.
Linders, William Z., Normandy, assignor to Lincoln Engineering Company, St. Louis, Mo. Coupling. 1,947,208; Feb. 13.
Lindgren, Alexus C., Chicago, and C. R. Raney, Riverside, Ill., assignors to International Harvester Company. Straw windrower for harvester-threshers. 1,946,655; Feb. 13.
Lindgen, Alexus C., Chicago, and C. R. Raney, Riverside, Ill., assignors to International Harvester Company. Straw windrower for harvester-threshers. 1,946,656; Feb. 13.
Lindsey, John F. (See Johnson, A. E., and Lindsey.)
Lintern, Thomas E. C., Cardiff, Wales. Lifting or jacking-up automobiles and other road vehicles. 1,947,346; Feb. 13.
Liotta, Ernest, Cleveland, Ohio. Artificial bait. 1,946,979; Feb. 13.
Lipman Patents Corporation. (See Mallory, Edward B., assignor.)
Lisk Manufacturing Company. (See Lewis, William F., assignor.)
Lite Watchman Corporation. (See Cordon, Hayner H., assignor.)
Littell, F. J., Machine Co. (See Littell, Frederick J., assignor.)
Littell, Frederick J., assignor to F. J. Littell Machine Co., Chicago, Ill. Strip stock feed for presses. 1,947,015; Feb. 13.
Little, Gordon E., Roseville, Mich. Trailer attachment for motor boats. 1,946,497; Feb. 13.
Locke Insulator Corporation. (See Skipper, E. M., and McCoy, assignors.)
Locke Steel Chain Company, The. (See Stegeman, H. J., and Locke, assignors.)
Locke, Sylvanus D. (See Stegeman, H. J., and Locke.)
Long, Paul H. (See Bradley, H. W., and Long.)
Loomis, Lowell, Oakland, Md. Apparatus for segregating eggs. 1,946,980; Feb. 13.
Lord, Hugh C. (See Lord, Thomas, assignor.)
Lord, Thomas, assignor to H. C. Lord, Erie, Pa. Mounting. 1,947,132; Feb. 13.
Lorentzen, Hans K., New York, N. Y., assignor to Ditto Incorporated. Duplicator. Re19,082; Feb. 13.
Lorensen, Christian, Berlin-Treptow, Germany, assignor, by mesne assignments, to Bendix Aviation Corporation, Chicago, Ill. Making tubular turbine blades. 1,947,347; Feb. 13.
Lory, Milton M., Sioux City, Iowa. Tire tool. 1,946,912; Feb. 13.
Loudon, Warren P., assignor to Delco Aviation Corporation, Dayton, Ohio. Electrical apparatus. 1,946,631; Feb. 13.
Lovejoy, Ralph M., Boston, Mass. Indexing mechanism for automatic drilling machines and the like. 1,947,348; Feb. 13.
Lower, Melvin S., Barberton, Ohio, assignor to The Sun Rubber Company. Bottle stopper. 1,946,981; Feb. 13.
Lox Seal Corporation, The. (See Behrman, Marcus B., assignor.)
Lundgren, William E., Auburn, assignor to P. H. McMullen, Worcester, Mass., trustee. Tension device for automatic loom shuttles. 1,947,133; Feb. 13.
Lyttle, J. M., et al. (See Jones, James M., assignor.)
Machold, Fred M., Pleasantville, N. Y. Reading lamp. 1,946,866; Feb. 13.
MacKinnon, Margaret D., Hollywood, Calif. Cooky. Des. 91,491; Feb. 13.
Macklanburg, Louis A., Oklahoma City, Okla. Weatherstrip. 1,947,349; Feb. 13.
Macklanburg, Louis A., Oklahoma City, Okla. Securing means for weather strips. 1,947,350; Feb. 13.
Macklanburg, Louis A., Oklahoma City, Okla. Packing, displaying, and dispensing device. 1,947,351; Feb. 13.
Macklanburg, Louis A., Oklahoma City, Okla. Weather stripping. 1,947,352; Feb. 13.
MacLean-Fogg Lock Nut Company. (See MacLean, John A., assignor.)
MacLean, John A., assignor to MacLean-Fogg Lock Nut Company, Chicago, Ill. Bolt. 1,946,800; Feb. 13.
Madsen, Sern, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Window frame construction. 1,947,094; Feb. 13.
Magoun, George L., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Vulcanization of rubber. 1,946,704; Feb. 13.
Maier, Karl, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Machine for simultaneously forming independent stitched seams. 1,947,299; Feb. 13.
Malcolm, Walter B., Albany, N. Y. Chair and foot rest therefor. 1,947,212; Feb. 13.
Malkin, Bernard A., Lachine, Quebec, and F. McHenry, Beaupre, Quebec, Canada. Riding roller for paper making machines. 1,946,801; Feb. 13.

Mallory, Edward B., Tenafly, N. J., assignor, by mesne assignments, to Lipman Patents Corporation, Chicago, Ill. Compression unit. 1,947,016; Feb. 13.

Malm, Carl J., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacture of mixed esters of cellulose. 1,946,632; Feb. 13.

Manoil, Jack, Brooklyn, N. Y., assignor to Man-O-Lamp Corporation. Picture frame. 1,946,705; Feb. 13.

Man-O-Lamp Corporation. (See Manoil, Jack, assignor.)

Mantle Lamp Company of America, The. (See Engh, Walter B., assignor.)

Marasco, Martin, Parlin, N. J., assignor to Dupont Film Manufacturing Corporation. Treating cellulose esters. 1,947,419; Feb. 13.

Marchant Calculating Machine Company. (See Lerch, Gustav, assignor.)

Marcroft, William. (See Swanson, E. R., and Marcroft.)

Marcum, William, jr., et al. (See Jones, James M., assignor.)

Margon Corporation. (See Grubman, Leo J., assignor.)

Margon Corporation. (See Konoff, Alexander, assignor.)

Margon Corporation. (See Wilhelm, John H., assignor.)

Marique, Jean. (See Braillard, R., and Marique.)

Martin, George R. (See Juvinall, Orla E., assignor.)

Martin, Mark H., Reading, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Car truck. 1,946,588; Feb. 13.

Martin, Mark H., assignor to Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa. Side door frame. 1,946,586; Feb. 13.

Marvel Carbureter Co. (See Firth, David, assignor.)

Marvel Carbureter Company. (See Kirby, Charles H., assignor.)

Mason, Ray W., Spokane, Wash. Bookholder. 1,947,053; Feb. 13.

Mason, Roger, Westfield, assignor to International Communications Laboratories, Inc., Newark, N. J. Message conveyer. 1,946,706; Feb. 13.

Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Steering mechanism for individually sprung wheels. 1,946,749; Feb. 13.

Mathes, Robert C., Wyoming, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech amplitude control. 1,947,209; Feb. 13.

Mathieu, Isaac S., Rockford, and F. B. Springer, Loves Park, Ill. Fountain shaving brush. 1,946,867; Feb. 13.

Matthews, Joseph L., Highland Park, N. J., assignor to International Motor Company, New York, N. Y. Gear shift control mechanism. 1,946,750; Feb. 13.

Mattikow, Morris. (See Thomas, A. W., and Mattikow.)

Mattison Machine Works. (See Sundstrand, Gustaf D., assignor.)

Mattison, Royal, assignor to Ambler Asbestos Shingle & Sheathing Company, Ambler, Pa. Producing decorative material. 1,947,271; Feb. 13.

Maul, Michael, Berlin, Germany, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Automatic punching machine. 1,946,913; Feb. 13.

May Hosiery Mills. (See Smith, William L., jr., assignor.)

May, Walter H., Pelham Manor, assignor to Carlin Comforts, Inc., New York, N. Y. Sewing mechanism for quilts and the like. 1,946,868 Feb. 13.

Mayoh, Frank H., Springfield, Mass. Welding apparatus. 1,947,300; Feb. 13.

Maytag Company, The. (See Mikulasek, John, assignor.)

Mazzocco, Dante V., assignor to Eureka Photo Mechanical Equipment, Inc., New York, N. Y. Vacuum frame. 1,946,539; Feb. 13.

McAvity, T., & Sons, Limited. (See Blanchard, Frederick W., assignor.)

McCabe, Edward B., assignor to Carbondale Machine Company, Carbondale, Pa. Apparatus for purging refrigerating systems. 1,947,095; Feb. 13.

McCarthy, Kellogg B., Sacramento, Calif. Bank-check post-card folder. 1,946,751; Feb. 13.

McCoy, Robert L. (See Skipper, E. M., and McCoy.)

McCrery, Harold E., Pittsburgh, assignor to Blaw-Knox Company, Blawnox, Pa. Rotary valve. 1,947,210; Feb. 13.

McCrosky Tool Corporation. (See Miller, Frank P., assignor.)

McCulloch, Leon, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating material. 1,947,096; Feb. 13.

McDonough, Alexander J. (See Garlius, Bernt, assignor.)

McEvoy, J. H., & Company. (See Howard, James H., assignor.)

McFarlane, Edwin C., Pearl River, N. Y. Method of and apparatus for conveying sheet material. 1,947,211; Feb. 13.

McHenry, Frank. (See Malkin, B. A., and McHenry.)

McHugh, Anthony L., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Sealing device. 1,947,017 Feb. 13.

McIlvried, Edwin J., Akron, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Winding apparatus. 1,946,802; Feb. 13.

McKay, Eurene H., assignor to Kellogg Company, Battle Creek, Mich. Cereal food. 1,946,803; Feb. 13.

McMuller, Percy H. (See Lundgren, William E., assignor.)

McPeak, Frank V., Los Angeles, Calif., assignor, by mesne assignments, to P. J. Campbell, New York, N. Y. Elevator system. 1,946,982; Feb. 13.

McReynolds, William E., assignor to H. E. Woodard, Detroit, Mich. Abrading and polishing device. 1,947,054; Feb. 13.

Mechlin, Ernest F., Washington, D. C., assignor to The Symington Company, New York, N. Y. Cushioning mechanism. 1,947,301; Feb. 13.

Meingast, Rudolf, and M. Mugdan, assignor to Consortium für Elektrochemische Industrie, Munich, Germany. Manufactu ing acetic anhydride. 1,946,707; Feb. 13.

Meitzler, Charles R., assignor to O. H. and A. F. Pieper, Rochester, N. Y. Sterilising means. 1,946,804; Feb. 13.

Melwald, Frans, Vienna, Austria. Cord-shaped knitting-covered bodies and making same. 1,947,302; Feb. 13.

Mekler, Lev A., assignor to Universal Oil Products Company, Chicago, Ill. Return bend plug deflector. 1,946,945; Feb. 13.

Mellon, Frank H., Pittsburgh, Pa. Combination ash tray and bridge score pad holder. 1,946,983; Feb. 13.

Méndez, Ciro F., New York, N. Y. Process of and apparatus for producing stereoscopic motion pictures. 1,947,161; Feb. 13.

Mendoza, Mordecai, West Didsbury, A. G. Murray Whitefield, and H. B. Biggs, South Reddish, England, assignors to Imperial Chemical Industries Limited. Manufacture of soluble compositions and their use in dyeing and printing. 1,947,433; Feb. 13.

Merck & Co. (See Rosin, Joseph, assignor.)

Metropolitan Sewing Machine Corporation, The. (See Weis, John P., assignor.)

Meyer, Andre J., assignor to Continental Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,947,213; Feb. 13.

Meyer, Andre J., assignor to Continental Motors Corporation, Detroit, Mich. Clutch. 1,947,214; Feb. 13.

Meyer, Andre J., assignor to Continental Motors Co poration, Detroit, Mich. Engine. 1,947,215; Feb. 13.

Meyer, Lewis J., Tererro, N. Mex. Foldable rack. 1,946,633; Feb. 13.

Michigan, The State Board of Agriculture of the State of. (See Huston, R. C., and Lightbody, assignors.)

Micon, David, Milwaukee, Wis. Apparatus for covering mattresses. 1,947,216; Feb. 13.

Micon, David, Milwaukee, Wis. Mattress tufting machine. 1,947,217; Feb. 13.

Miessner, Benjamin F., Short Hills, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrical filter system. 1,947,218; Feb. 13.

Mikulasek, John, assignor to The Maytag Company, Newton, Iowa. Clutch mechanism. 1,947,420; Feb. 13.

Miller, Donald W. (See Russell, E. A., and Miller.)

Miller, Ernest B. (See Connoy, G. C., and Miller.)

Miller, Frank P., assignor to McCrosky Tool Corporation, Meadville, Pa. Rotary cutter. 1,946,869; Feb. 13.

Miller, Herbert E., Allentown, Pa. Wire connecting device. 1,946,752; Feb. 13.

Mills, George W., jr., Cincinnati, Ohio, assignor to Construction Materials Patents, Inc. Roofing. 1,947,134; Feb. 13.

Milne, Samuel, Edinburgh, Scotland. Beater roll. 1,947,440; Feb. 13.

Minneapolis-Honeywell Regulator Company. (See Fisher, George H., assignor.)

Minneapolis-Honeywell Regulator Company. (See Taylor, Daniel G., assignor.)

Mitts & Merrill. (See Winston, William J., assignor.)

Mize, George G., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind. Connecting link for chains. 1,947,421; Feb. 13.

Moberley, Walter E., Detroit, Mich. Tool. 1,946,753; Feb. 13.

Mock, Frank C., assignor to Bendix Research Corporation, East Orange, N. J. Carburetor. 1,947,162; Feb. 13.

Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)

Mojonnier, Julius J., Oak Park, Ill., assignor to Mojonnier Bros. Co. Washing apparatus. 1,946,805; Feb. 13.

Monark Battery Company. (See Henry, Harry H., assignor.)

Montgomery, Donald H., Berlin, assignor to New Britain-Gridley Machine Company, New Britain, Conn. Hydraulic apparatus. Re19,077; Feb. 13.

Montgomery Ward & Co. (See Knapp, Leland G., assignor.)

Moon, William H., Muncie, Ind. Helical spring coiling device. 1,946,870; Feb. 13.

Moorhead, Albert E., assignor to Moorhead Development Co., Inc., Oakland, Calif. Floor polishing material. 1,947,135; Feb. 13.

Moorehead, Albert E., assignor to Moorhead Development Co., Inc., Oakland, Calif. Floor cleaning device. 1,947,136; Feb. 13.

Moorhead Development Co. (See Moorhead, Albert E., assignor.)

Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle transmission. 1,946,871; Feb. 13.

Moorman, Charles L., Chicago, assignor to Wepsco Steel Products Co., Blue Island, Ill. Starch tray. 1,947,055; Feb. 13.

Morgan, David H., assignor to Truscon Steel Company, Youngstown, Ohio. Door structure and operating means therefor. 1,947,422; Feb. 13.

Morgan, John D., South Orange, N. J., assignor to Doherty Research Company, New York, N. Y. Gas analyzing process and apparatus. 1,947,303; Feb. 13.

Morgan's, Enoch, Sons Co. (See Brooker, William F. C., assignor.)

Morgenstern, Ronald V. (See Haglund, H. H., and Morgenstern.)

Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. One pole motor. 1,947,163; Feb. 13.

Morris, George A., St. Louis, Mo. Tire valve cap. 1,946,806; Feb. 13.

Morrison, Louis A., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phonograph reproducer. 1,947,164; Feb. 13.

Morro, Norman A., Remuera, Auckland, and C. S. Scott, Herne Bay, Auckland, New Zealand. Retention of liquids in cisterns and the like. 1,947,304; Feb. 13.

Morse, Robert B. (See Munroe, W. C., and Morse.)

Motor Devices, Inc. (See Trail, Herbert H., assignor.)

Motor Products Corporation. (See Kellogg, Homer G., assignor.)

Motor Products Corporation. (See Pritchard, William S., assignor.)

Mueller, Robert, Yonkers, N. Y. Atomizer. 1,947,353; Feb. 13.

Muenzer, Frank X., assignor to The Multiplex Concrete Machinery Company, Elmore, Ohio. Machine for making building blocks. 1,946,708; Feb. 13.

Mugdan, Martin. (See Meingast, R., and Mugdan.)

Muhleisen, Henry W., Los Angeles, Calif. Vacuum container. 1,946,872; Feb. 13.

Mullen, Chester P., Montgomery, W. Va. Car stop. 1,947,354; Feb. 13.

Muller, Ernst F., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. 1,946,634; Feb. 13.

Multigraph Company. (See Rowell, George S., assignor.)

Multiple Concrete Machinery Company, The. (See Muenzer, Frank X., assignor.)

Munroe, Walter C., Arnold, and R. B. Morse, Hyattsville, Md. Apparatus for the preparation of sewage for pumping. 1,946,754; Feb. 13.

Murphy, Francis S., New York, N. Y., assignor to Bigelow Sanford Carpet Co., Inc. Carpet. Des. 91,402; Feb. 13.

Murray, Arthur G. (See Mendoza, M., Murray and Briggs.)

Murray, Thomas F., jr., and W. O. Kenyon, assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose organic ester composition containing derivatives of diethylene glycol. 1,946,635; Feb. 13.

Murray, Thomas F., jr. (See Staud, C. J., and Murray.)

Murrill, Paul I., Norwalk, Conn., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Treatment of motor fuel. 1,947,219; Feb. 13.

Mussey, William H. (See Blomberg, M. P., and Mussey.)

Myers, Ebenezer, Concord, N. C. Dimmer double reflector. 1,946,755; Feb. 13.

Myhre, Chris O., Spring Grove, Minn. Calf weaner. 1,947,273; Feb. 13.

Naeher, Paul. (See Allison, C. F., and Naeher.)

Napolitan, Gene, Brooklyn, N. Y. Vehicle brake. 1,947,272; Feb. 13.

Narrow Fabric Company. (See Faust, Paul E., assignor.)

Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Slack adjuster. 1,947,305; Feb. 13.

National Acme Company, The. (See Eickhoff, T. H., Sanborn, and Drissner, assignors.)

National Automatic Tool Company, The. (See Schafer, Robert A., assignor.)

National Cash Register Company, The. (See Brand, Samuel, assignor.)

National Cash Register Company, The. (See Von Pein, Edward J., assignor.)

National Gypsum Company. (See New, Gustave A., assignor.)

National Machine Products Company. (See Stoll, Albert, assignor.)

National Malleable and Steel Castings Company. (See Shafer, James A., assignor.)

National Smelting Company, The. (See Bonsack, Walter, assignor.)

Naul, James M., Fanwood, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Self-starting synchronous motor. 1,947,423; Feb. 13.

Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Manure spreader. 1,946,807; Feb. 13.

Neighbour, Leonard B., Moline, and F. A. Thomann, East Moline, assignors to Deere & Company, Moline, Ill. Cotton harvester. 1,946,542; Feb. 13.

Neilsen, Charles L. (See Burrows, Stanley, assignor.)

Nelke, David L., New York, N. Y. Display fixture. 1,947,165; Feb. 13.

Nelson, William L. (See Lien, Anton O., assignor.)

Neuhauss, Heinrich, Dusseldorf, Germany, assignor to The Ajax Metal Company, Philadelphia, Pa. Making stainless steel. 1,946,873; Feb. 13.

Neuman, Jacob J. (See Andrews, N. R., and Neuman.)

Neuschotz, Robert A., New York, and W. Liebfried, Jamaica, N. Y.; said Leibfried assignor to said Neuschotz. Elevator signaling mechanism. 1,947,097; Feb. 13.

New, Gustave A., Lakewood, Ohio, assignor, by mesne assignments, to National Gypsum Company, Buffalo, N. Y. Sound absorbing and insulating composition. 1,946,914; Feb. 13.

New Britain-Gridley Machine Company. (See Montgomery, Donald H., assignor.)

New Haven Clock Company, The. (See Whitehead, R. H., and Porter, assignors.)

Nicholas, Herbert T., Sandusky, Ohio, assignor to The Rotary Printing Company, Norwalk, Conn. Perforating machine. 1,946,874; Feb. 13.

Nicholson, Nicholas A., Johnstown, Pa. Motion picture apparatus. 1,946,875; Feb. 13.

Nicholson, Nicholas A., Johnstown, Pa. Automobile jack. 1,946,984; Feb. 13.

Nickle, Clifford A., Schenectady, N. Y., assignor to General Electric Company. Electrostatic machine. 1,947,220; Feb. 13.

Niedhammer, Charles. (See Ollinger, W. J., and Niedhammer.)

Nielsen, Inc. (See Gairing, Walter W., assignor.)

Nielsen, Emanuel, assignor to Hamilton Beach Manufacturing Company, Racine, Wis. Power unit. 1,946,540; Feb. 13.

Niven, Archie M., assignor to Continental Motors Corporation, Detroit, Mich. Internal combustion engine. 1,947,221; Feb. 13.

Niven, Archie M., Detroit, Mich., assignor, by mesne assignments, to Continental Aircraft Engine Company. Internal combustion engine. 1,947,222; Feb. 13.

Noble, Audrey E. (See Beck, L., and Noble.)

Noble, Aubrey E., Lynbrook, assignor to Claude Neon Lights, Inc., New York, N. Y. Electric discharge device. 1,946,498; Feb. 13.

North American Holding Corporation. (See Johnston, James W., assignor.)

Northrup, Edwin F., Princeton, assignor to Ajax Electrothermic Corporation, Trenton, N. J. Heat treating method. 1,946,876; Feb. 13.

Norwood, Donald W., U. S. Army, March Field, Calif. Automatic regeneration control for vacuum tube circuits. 1,946,499; Feb. 13.

Numpad Incorporated. (See Phinney, Maurice R., assignor.)

Nydegger, Roland R., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Strands and method of handling them. 1,947,166; Feb. 13.

Nygaard, Egil, Oslo, Norway. Horseshoe of rubber or similar material. 1,946,636; Feb. 13.

Ober, Beverly, and E. H. Wight, assignors to The Oberphos Company, Baltimore, Md. Fertilizer. 1,947,138; Feb. 13.

Oberg, Clifford R., Brockton, assignor to Barnes & Jones, Incorporated, Jamaica Plain, Mass. Calibrating valves. 1,946,756; Feb. 13.

Oberphos Company, The. (See Ober, B., and Wight, assignors.)

O'Donnell, Edward M., San Francisco, Calif. Heat exchanger. 1,947,098; Feb. 13.

Oechs, Anthony & Company. (See Sgueglia, Joseph P., assignor.)

Oelkers, Alfred H., assignor to American Steel Foundries, Chicago, Ill. Draft gear. 1,947,056; Feb. 13.

Ohlis, Julius J., et al. (See Lenke, George H., assignor.)

Oilgear Company, The. (See Ferris, Walter, assignor.)

Old, James H., et al. (See Lenke, George H., assignor.)

Ollinger, William J., New York, and C. Niedhammer, Sunnyside, N. Y. Sizing or stiffening machine. 1,947,057; Feb. 13.

Olpin, Henry C. (See Ellis, G. H., and Olpin.)

Olson, Glen J. (See Graham, W. S. and Olson.)

Oneida Community, Limited. (See Thurber, A. E., and Sholtz, assignors.)

Oneida Paper Products Incorporated. (See Jaeger, Edward T., assignor.)

O'Neill, Edward J., Syracuse, N. Y. Cutting device. 1,947,355; Feb. 13.

Ophuis, Fred, Brooklyn, N. Y. Refrigerating rooms and buildings. 1,947,223; Feb. 13.

Oser, L. (See Strongson, Herman L., assignor.)

Otto, Albert T., & Sons. (See ter Meer, Gustav, assignor.)

Oxford Filing Supply Co. (See Jonas, Frank D., assignor.)

Oxford Varnish Corporation. (See Casto, L. V., and von Webern, assignors.)

Owens, Freeman H., New York, N. Y. Recording and reproducing lamp for photographic sound records. 1,946,587; Feb. 13.

Owens, Freeman H., New York, N. Y. Optical system and focusing means therefor. 1,946,588; Feb. 13.

Owens, Freeman H., New York, N. Y. Method and apparatus for recording and reproducing photographic sound records. 1,946,589; Feb. 13.

Package Machinery Company. (See Clark, Francis R., assignor.)

Packard Motor Car Company. (See Edwards, Herbert C., assignor.)

Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)

Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,493; Feb. 13.

Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,494; Feb. 13.

Painter, Maurice E., Dayton, Ohio. Liquid gas vaporizer. 1,947,099; Feb. 13.

Paluch, Joseph S. (See Frey, Frank W., assignor.)

Parker, Frederic W., Lovelock, Nev. Freewheeling device. 1,946,877; Feb. 13.

Parker, Hallett C., West De Pere, Wis. Scaffold support or snowhook. 1,946,757; Feb. 13.

Parker, James F., jr., Raleigh, N. C., and J. L. Parker, Charleston, S. C. Blood pressure registering machine. 1,946,985; Feb. 13.

Parker, James L. (See Parker, James F. and J. L.)

Parsons, John S., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Medium voltage network distribution system. 1,947,100; Feb. 13.

Partitions, Inc. (See Driver, Arthur S., assignor.)

Parva Products Company. (See Heinze, Paul, assignor.)

Parva Products Company. (See White, P. W., and Heinze, assignors.)

Pascuzzi, Vincent, Brooklyn, N. Y. Breast buffer. 1,947,101; Feb. 13.

Pastak, Isaak. (See Truffaut, G., and Pastak.)

Patco, Inc. (See de Ybarrondo, Vincent C., assignor.)

Paul, Talbert W., Kansas City, Kans., assignor to Deere & Company, Moline, Ill. Mower. 1,946,543; Feb. 13.

Paul, Talbert W., Kansas City, Kans., assignor to Deere & Company, Moline, Ill. Mower. 1,946,544; Feb. 13.

Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Circuit interrupting apparatus. 1,947,224; Feb. 13.

Pavek, Edward, Minneapolis, Minn. Mop squeezing device. 1,946,637; Feb. 13.

Payne, Burt H., Westfield, assignor to Stulz-Sickles Company, Newark, N. J. Alloys. 1,947,167; Feb. 13.

Pazziani, Auguste, and A. Chalut, Geneva, Switzerland. Process and apparatus for constructing fabric pattern cards. 1,946,787; Feb. 13.

Peabody, Eugene O., Fort Washington, Pa. Leather belting for waist belts or similar article. Des. 91,495; Feb. 13.

Peirce, John R., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Perforated record-controlled accounting machine. 1,946,915; Feb. 13.

Peirce, Ralph S., Hinsdale, Ill. Package. 1,946,808; Feb. 13.

Peltier, Sellers H., Ottawa, Ill. Making agatized bodies. 1,946,879; Feb. 13.

Pendery, Edward W., assignor to The Higgin Manufacturing Company, Newport, Ky. Device for installing window screens. 1,947,102; Feb. 13.

Penote, Augustus J., Shaker Heights, Ohio. Tamper backfilling machine. 1,947,356; Feb. 13.

Perfect Circle Company, The. (See Cramer, William J., assignor.)

Perkins, Melville F., Tacoma, Wash., assignor to American Smelting and Refining Company, New York, N. Y. Making lead carbonate. 1,946,709; Feb. 13.

Pessel, Leopold, Philadelphia, Pa. Heat treatment of light alloys. 1,946,545; Feb. 13.

Peters, Oscar P., Cleveland, Ohio, assignor to United Autographic Register Co., Chicago, Ill. Snap-out form and manufacturing the same. 1,947,139; Feb. 13.

Peterson, John F., New York, N. Y. Sash balance. 1,946,880; Feb. 13.

Pettibone Mulliken Company. (See Anderson, Oscar W., assignor.)

Petzke, Franklin J., Minneapolis, Minn. Counter display case. Des. 91,496; Feb. 13.

Pfager, Harry M., St. Louis, Mo., and A. R. Ayers, Cleveland, Ohio, said Pfager assignor of his entire right to General Steel Castings Corporation, Granite City, Ill. Locomotive boiler. 1,947,225; Feb. 13.

Phillips Petroleum Company. (See Guyer, Jesse A., assignor.)

Phinney, Maurice R., assignor to Numpad Incorporated, Hyannis, Mass. Seal for automobile license plates. 1,946,946; Feb. 13.

Pickard, Greenleaf W., Newton Center, Mass., assignor, by mesne assignments, to General Electric Company. Magnetic compass. 1,946,710; Feb. 13.

Pieper, Alphonse F., et al. (See Meitzler, Charles R., assignor.)

Pieper, Oscar H., et al. (See Meitzler, Charles R., assignor.)

Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)

Pillman, Walter W., Richmond Heights, Mo. Spark plug. 1,946,809; Feb. 13.

Pink, Clarence E., Cambridge, Md. Fabric. 1,947,357; Feb. 13.

Pioneer Suspender Company. (See Duffy, James T., jr., assignor.)

Pittoni, Louis E., Jamaica, assignor to The Rome Company, Inc., Rome, N. Y. Machine for sewing mattress covers. 1,947,058; Feb. 13.

Pittsburgh Equitable Meter Company. (See Weymouth, Harry G., assignor.)

Planters Manufacturing Co. (See Hargroves, Willis W., assignor.)

Plastino, Rubino, New York, N. Y. Course indicating and signaling apparatus. 1,947,018; Feb. 13.

Plummer, William B., assignor to Standard Oil Company, Chicago, Ill. Polymerization of olefinic gases. 1,947,306; Feb. 13.

Plumstead, Joseph E., Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Producing absorbent or resilient felt. 1,947,103; Feb. 13.

Plumstead, Joseph E., Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Fibrous felting or felted paper product and making same. 1,947,104; Feb. 13.

Plumstead, Joseph E., Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Producing absorbent or resilient felt. 1,947,105; Feb. 13.

Plumstead, Joseph E., Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Producing absorbent felt. 1,947,106; Feb. 13.

Plumstead, Joseph E., Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Producing absorbent or resilient felt. 1,947,107; Feb. 13.

Plumstead, Joseph E., Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Producing absorbent and resilient felt. 1,947,108; Feb. 13.

Ponsonby, Amos A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor control system. 1,947,059; Feb. 13.

Porcelain Tile Corporation. (See Haines, George D., assignor.)

Porter, Jay E., Muskegon, Mich. Piston ring joint miller. 1,946,881; Feb. 13.

Porter, Wilson E. (See Whitehead, R. H., and Porter.)

Potter, Earl C., Chicago, assignor, by mesne assignments, to Container Corporation of America, Chicago, Ill. Display stand. 1,947,168; Feb. 13.

Potter, John A., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Heat exchange apparatus. 1,947,109; Feb. 13.

Powell, Ross C., Forest Hills, assignor to The Texas Company, New York, N. Y. Apparatus for cracking hydrocarbon oils. 1,947,110; Feb. 13.

Powell, Stanley, East Cleveland, Ohio. Brake. 1,946,758; Feb. 13.

Pratt, Clifton J., Tulsa, Okla., assignor to Universal Oil Products Company, Chicago, Ill. Treating residue of hydrocarbon oil distillation. 1,946,947; Feb. 13.

Precious Metals Developing Company. (See Bart, Blasius, assignor.)

Preston, Hamilton W. (See Preston, Kenneth D. and H. W.)

Preston, Kenneth D., Hornell, N. Y., and H. W. Preston, Jacksonville, Fla., assignors of two-thirds to said K. D. Preston and one-third to said H. W. Preston. Signal system for motor vehicles. 1,946,759; Feb. 13.

Price, William K., Selah, Wash. Insecticide. 1,947,169; Feb. 13.

Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Measuring valve. 1,946,546; Feb. 13.

Pritchett, Daniel S. (See Burnett, P. A., Fallis, and Pritchett.)

Prosperity Company, The. (See Davis, E., and Klenzle, assignors.)

Prussing, Walter, Brooklyn, N. Y. Printing plate for collapsible tubes. 1,947,170; Feb. 13.

Prussing, Walter, Brooklyn, N. Y. Tube making, capping, printing, and enameling machine. 1,947,171; Feb. 13.

Public, Dedicated to free use of. (See Hartley, Charles P., assignor.)

Pullclean Manufacturing Corporation. (See Addler, J. H., and Crowson, assignors.)

Pullen, Rodney S., Akron, Ohio, assignor to Pullenlite Company, Philadelphia, Pa. Match package. 1,947,111; Feb. 13.

Pullenlite Company. (See Pullen, Rodney S., assignor.)

Pullman Car & Manufacturing Corporation. (See Blomberg, M. P., and Mussey, assignors.)

Purcell, William F. (See Smith, D. F., and Purcell.)

Quadrex Corporation, The. (See Leathers, Ward, assignor.)

Quigley, W. A. (See Goble, Bert G., assignor.)

Quisenberry, Olive, Springfield, Mo. Rack. 1,946,711; Feb. 13.

Racz, Ernest, assignor to Burroughs Adding Machine Company, Detroit, Mich. Double ribbon mechanism. 1,947,019; Feb. 13.

Radio Corporation of America. (See Ballantine, Stuart, assignor.)

Radio Corporation of America. (See Braden, Rene A., assignor.)

Radio Corporation of America. (See Finch, J. L., and Conklin, assignors.)

Radio Corporation of America. (See Franklin, C. S., and Whistlecroft, assignors.)

Radio Corporation of America. (See Hollerith, Herman, jr., assignor.)

Radio Corporation of America. (See Kemp, Colin G. and L. G., assignors.)

Radio Corporation of America. (See Miessner, Benjamin F., assignor.)

Radio Corporation of America. (See Roberts, Walter van B., assignor.)

Raffetto, Joseph L., New York, N. Y. Radiocabinet. Des. 91,497; Feb. 13.

Rafton Engineering Corporation. (See Rafton, Harold R., assignor.)

Rafton, Harold R., Andover, Mass., assignor to Rafton Engineering Corporation. Supporting wire cloth. 1,947,307; Feb. 13.

Railway Metal Products Company. (See Small, Arthur E., assignor.)

Raney, Clemma R. (See Lindgren, A. C., and Raney.)

Ranger, Richard H., Newark, N. J. Electrical music system. 1,947,020; Feb. 13.

Rasmussen, Lillian R., Long Beach, Calif. Drier. 1,946,638; Feb. 13.

Ratner, Abraham. (See Levow, D., and Ratner.)

Rayburn, Alden G., Sausalito, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation. Torque-resisting arrangement for vehicles. 1,947,358; Feb. 13.

Reed, Harvey D., Abington, and H. H. Kent, assignors to Regal Shoe Company, Whitman, Mass. Ventilated shoe. 1,946,986; Feb. 13.

Reed, Robert G., Dorchester, Mass. Nonskid mechanism for vehicles. 1,946,712; Feb. 13.

Reel, Herbert W. (See Birdsey, C. R., and Reel.)

Regal Shoe Company. (See Reed, H. D., and Kent, assignors.)

Reid, Ernest W., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Dewaxing petroleum oils. 1,947,359; Feb. 13.

Reiman, Paul, assignor to Apollo Fabrics, Inc., New York, N. Y. Textile fabric. Des. 91,498; Feb. 13.

Reiman, Paul, assignor to Apollo Fabrics, Inc., New York, N. Y. Textile fabric. Des. 91,499; Feb. 13.

Reimers, Anton, Davenport, Iowa. Collet chuck. 1,947,060; Feb. 13.

Reiter, Daniel I., New York, N. Y., and G. W. Lane, Providence, R. I.; said Lane assignor to said Reiter. Adjustable slide fastener. 1,937,424; Feb. 13.

Renner, Herbert O. (See Haas, L. W., and Renner.)

Reo Motor Car Company. (See Thomas, Horace T., assignor.)

Revere Rubber Company. (See Gibbons, W. A., Hazell, and Keen, assignors.)

Revere Rubber Company. (See Keen, Alexis W., assignor.)

Rhea, Thomas R., Schenectady, N. Y., assignor to General Electric Company. Navigational apparatus. 1,947,434; Feb. 13.

Rhine, Wallace R., Amenia, N. Dak. Extension spout or chute. 1,946,760; Feb. 13.

Rhodes Metallic Packing Company. (See Field, Fletcher H., assignor.)

Rhodes Metallic Packing Company. (See Sorenson, Carl H., assignor.)

Richards, Donald A., Yonkers, assignor to Emanuel Hammerling, New York, N. Y. Flaming lighter. 1,946,719; Feb. 13.

Richardson, Joseph P., Catlettsburg, Ky. Self-adjusting scissors. 1,947,308; Feb. 13.

Richmond, Burton I., assignor to Adams Wax Products Mfg. Inc., St. Paul, Minn. Electric scrubbing, waxing, and steel wooling machine. 1,947,485; Feb. 13.

Richter, Hartmut W., Elisabeth, N. J. Making titanium white. 1,947,226; Feb. 13.

Richter, Theodore J., et al, administrators. (See Koestlin, Herman F., assignor.)

Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Folding projection screen. 1,946,639; Feb. 13.

Rieke Metal Products Corporation. (See Rieke, Theodore W., assignor.)

Rieke, Theodore W., Auburn, Ind., assignor to Rieke Metal Products Corporation. Bung fixture for sheet metal containers. 1,947,425; Feb. 13.

Riggs, Leon W., Schenectady, N. Y., assignor to General Electric Company. Shaft seal. 1,947,172; Feb. 13.

Riley, Ralph E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making a molded rubber shoe. 1,947,178; Feb. 13.

Rinaldi, Jean, New York, N. Y. Vending machine casing. Des. 91,500; Feb. 13.

Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Luggage carrier case. 1,946,761; Feb. 13.

Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Luggage carrier case. 1,946,762; Feb. 13.

Ritter, Julius, jr., and W. C. Chesnut, assignors to Hartmann Trunk Company, Racine, Wis. Luggage carrier. 1,947,227; Feb. 13.

Rizzo, Columbus, Detroit, Mich. Illuminator for automobiles. 1,946,916; Feb. 13.

Roberts, Eugene, Hastings, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah. Basket lining for centrifugals. 1,946,500; Feb. 13.

Roberts, Fred T. (See Fonda, Jay C., assignor.)

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Directional aerial. 1,947,021; Feb. 13.

Robertson, Arthur F. (See Dunham, L. S., and Robertson.)

Robinson, Charles J., Savannah, Ga. Barrel. 1,947,228; Feb. 13.

Rockwell, Edward A., Long Island City, N. Y. Fuel feeding device. 1,946,590; Feb. 13.

Roe, Mark W., assignor to The Kelly-Springfield Tire Company, Cumberland, Md. Coaster. Des. 91,501; Feb. 13.

Rogers Brothers Corporation. (See Rogers, Francis I., assignor.)

Rogers, Francis I., assignor to Rogers Brothers Corporation, Albion, Pa. Fifth wheel. 1,947,987; Feb. 13.

Roggensack, Lutie A., Moorhead, Minn. Overcoming side draft. 1,946,501; Feb. 13.

Rollason, Charles H., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Container. 1,947,140; Feb. 13.

Rome Company. (See Pittoni, Louis E., assignor.)

Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Vehicle spring suspension. 1,946,948; Feb. 13.

Roos, Henry W., Cincinnati, Ohio. Apparatus for forming concrete floors. 1,947,860; Feb. 13.

Rosin, Joseph, Plainfield, assignor to Merck & Co., Inc., Rahway, N. J. Ether package and method of packaging ether. 1,946,502; Feb. 13.

Ross, Taylor W., assignor to Thomas Graham & Co. Inc., Madison, Ind. Furniture construction. 1,946,917; Feb. 13.

Rotary Printing Company, The. (See Nicholas, Herbert T., assignor.)

Rowell, George S., Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del. Sheet holding frame for photographic use. 1,946,810; Feb. 13.

Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Valve for fire-extinguishing systems. 1,947,309; Feb. 13.

Rowley, Charles A., East Orange, N. J. Cable terminal. 1,946,713; Feb. 13.

Rubber Service Laboratories Company, The. (See Behrend, Oswald, assignor.)

Rubber Service Laboratories Company. (See Magoun, George L., assignor.)

Ruben Condenser Company. (See Ruben, Samuel, assignor.)

Ruben, Samuel, assignor to Ruben Condenser Company, New Rochelle, N. Y. Electric condenser. 1,947,112; Feb. 13.

Rudenberg, Reinhold, Berlin-Grunewald, Germany, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company. Alternating current long distance line. 1,947,061; Feb. 13.

Rudenberg, Reinhold, Berlin-Grunewald, Germany, assignor to Westinghouse Electric & Manufacturing Company. Alternating current long distance line. 1,947,062; Feb. 13.

Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Permanent magnet and making it. 1,947,274; Feb. 13.

Rufert Chemical Company. (See Heineken, W. P., and Freed, assignors.)

Runge, Wilhelm, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie mit beschränkter Haftung, Berlin, Germany. Heterodyne receiving system. 1,947,229; Feb. 13.

Ruppel, Sigwart, Frankfort-on-the-Main, Germany. Electric circuit breaker. 1,947,230; Feb. 13.

Russakov, Jacob I., Chicago, Ill. Display cover. 1,946,811; Feb. 13.

Russel, Philip S., assignor to Detroit Lubricator Company, Detroit, Mich. Valve. 1,946,882; Feb. 13.

Russell, Edward A., Chicago, and D. W. Miller, Elmhurst, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Steam and electric heating unit. 1,946,547; Feb. 13.

Russell, Julian G., North Chattanooga, assignor, by mesne assignments, to Carter Brothers, Incorporated, Chattanooga, Tenn. Sewing machine. 1,947,436; Feb. 13.

Russell, Theodore. Naugatuck, Conn. Bead chain. 1,947,113; Feb. 13.

Russo, Joe, Cleveland, Ohio. Tool sterilizer. 1,946,883; Feb. 13.

Rutherford, Robbins S., New York, N. Y. Soap holder. 1,946,884; Feb. 13.

Sabbah, Camil A., Schenectady, N. Y., assignor to General Electric Company. Electric translating circuits. 1,947,231; Feb. 13.

Sachs, Joseph, West Hartford, Conn. Electric circuit controlling appliance. 1,946,504; Feb. 13.

Sachs, Joseph, West Hartford, Conn. Electric switch. 1,947,275; Feb. 13.

Sachs, Joseph, West Hartford, Conn. Electric circuit controlling appliance. 1,947,276; Feb. 13.

Sachs, Joseph, West Hartford, Conn. Switching member for electric switches. 1,947,277; Feb. 13.

Saito, Tomosaburo, Seattle, Wash. Liner plate for shoes. 1,946,591; Feb. 13.

Sallwasser, William H., Wheeling, W. Va. Rock-crushing machine. 1,946,763; Feb. 13.

Sammons, Edward C., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Casing for coal burning stokers. Des. 91,502; Feb. 13.

Sample, Warren M., and O. O. Langdon, Muncie, Ind. Liquid dispenser. 1,947,310; Feb. 13.

Sanborn, Frederick, jr. (See Eickhoff, T. H., Sanborn, and Driessner.)

Sando, Joseph B., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Apparatus for cleaning fabrics. 1,947,174; Feb. 13.

Sanford, Hugh W., Knoxville, Tenn. Mine-car brake. 1,947,361; Feb. 13.

Sanford Mills. (See Clark, Frank W., assignor.)

Sanger, Frank M., assignor to The Bagley and Sewall Company, Watertown, N. Y. Shaking mechanism for Fourdrinier machines. 1,946,592; Feb. 13.

Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)

Schaefer, Frederic, Pittsburgh, Pa. Connecting rod. 1,947,278; Feb. 13.

Schafer, Robert A., assignor to The National Automatic Tool Company, Richmond, Ind. Gear pump and motor control mechanism. 1,946,503; Feb. 13.

Schafer, Robert A., assignor to The National Automatic Tool Company, Richmond, Ind. Trip mechanism for hydraulically controlled gear unit. 1,947,311; Feb. 13.

Schaub, Eugene J., Corona, N. Y. Film reel. 1,946,764; Feb. 13.

Scheffer, Victor, Budapest, Hungary. Shaving soap. 1,946,765; Feb. 13.
Scheidler, Ralph R. (See Schronts, John F., assignor.)
Schellenger, Newton C., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Rheostat and the like. 1,947,437; Feb. 13.
Schenkel, Moritz, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Protection of controlled rectifiers. 1,947,063; Feb. 13.
Schilling, John M. and W. G., Lima, Ohio. Refrigerator. 1,946,593; Feb. 13.
Schilling, Willard G. (See Schilling, John M. and W. C.)
Schmeller Holding Company. (See Schmeller, John, sr., assignor.)
Schmeller, John, sr., Lakewood, assignor to Schmeller Holding Company, Cleveland, Ohio. Method and apparatus for metal working and product resulting therefrom. 1,947,114; Feb. 13.
Schmidt, Carl A., and A. B. Ashton, assignors to Ashco Corporation, St. Paul, Minn. Internal-combustion-engine exhaust heater. 1,946,885; Feb. 13.
Schneider, Hermann. (See Straub, F., and Schneider.)
Schneider, Otto, Dresden, Germany, assignor, by mesne assignments, to Marshall Van Winkle, jr., Jersey City, N. J. Miner's lamp. 1,947,022; Feb. 13.
Schneider, Ralph F., Jersey City, N. J. Thermometer. 1,947,175; Feb. 13.
Schoenhut, Harry E., Philadelphia, Pa. Diaphragm. 1,947,362; Feb. 13.
Schramm, August F., jr., New York, N. Y. Electric heating unit. 1,946,886; Feb. 13.
Schronts, John F., Indianapolis, assignor, by mesne assignments, to E. B. Scheidler, Marion County, Ind. Gate construction. 1,947,176; Feb. 13.
Schueler, Frederick C., assignor to Hudson-Sharp Machine Company, Green Bay, Wis. Pack holding mechanism. 1,946,988; Feb. 13.
Schulman, Solomon, Brooklyn, N. Y. Mop. 1,947,312; Feb. 13.
Schumb, Martin T. (See Tougas, E. E., and Schumb.)
Schürmann, Friedrich, Dortmund, Germany, assignor to The Stacey Bros. Gas Construction Company, Cincinnati, Ohio. Increasing the height of a gas holder while in service. 1,947,279; Feb. 13.
Scott, Colin S. (See Morro, N. A., and Scott.)
Scott, Elisha H., assignor to W. N. Johnson Automobile Sheet Metal Works, Richmond, Ind. Grave Vault. 1,947,064; Feb. 13.
Scott, Howard, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bimetal thermostat. 1,947,065; Feb. 13.
Scott, Norman D., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Inc., Wilmington, Del. Hydrogenation of CO to methyl formate and methanol in liquid phase with alcoholate catalysts. 1,946,918; Feb. 13.
Scott, Walter M. (See Barnhart, Job R., assignor.)
Sellers, Elmer J., Kutztown, Pa. Fly casting basket reel. 1,947,141; Feb. 13.
Seymour, Merrill W., Irondequoit, assignor to Eastman Kodak Company, Rochester, N. Y. Making wash-off relief images. 1,946,640; Feb. 13.
Sgueglia, Joseph P., assignor to Anthony Oechs & Company, Incorporated, New York, N. Y. Bottle. Des. 91,503; Feb. 13.
Shafer, James A., East Cleveland, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car door locking and operating means. 1,946,714; Feb. 13.
Shaff, Ernest H., assignor to W. H. Keller, Inc., Grand Haven, Mich. Pressure fluid operated tool. 1,946,548; Feb. 13.
Shanafelt, Donald M. (See Shonkwiler, A. H., and Shanafelt.)
Shaw-Walker Company, The. (See Hunter, David E., assignor.)
Sheffield Shale Products Company. (See Zack, Edgar G., assignor.)
Shelton W. G., Company. (See Shelton, William G., assignor.)
Shelton, William G., assignor to W. G. Shelton Company, St. Louis, Mo. Apparatus for waving hair. 1,946,812; Feb. 13.
Shelton, William G., assignor to W. G. Shelton Company, St. Louis, Mo. Hair waving apparatus. 1,946,813; Feb. 13.
Shield, Paul S., assignor to A. Davis, jr., Cincinnati, Ohio. Hydraulic operator. 1,946,715; Feb. 13.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Leather brace. 1,947,313; Feb. 13.
Shoemaker, Fred G., Ferndale, assignor to General Motors Research Corporation, Detroit, Mich. Piston pin lubrication system. 1,947,023; Feb. 13.
Sholtz, Raymond H. (See Thurber, A. E., and Sholtz.)
Shonkwiler, Albert H., and D. M. Shanafelt, Steubenville, Ohio. Finishing ferrous sheet material. 1,946,766; Feb. 13.
Shores, Paul. (See Lake, C. D., and Shores.)
Short, J. R., Milling Company. (See Haas, L. W., and Renner, assignors.)
Shusk, John Q., Bucyrus, Ohio. Oscillating axle for vehicles. 1,947,363; Feb. 13.
Sieg, Karl, Philadelphia, Pa., assignor to Samuel M. Langston Co., Camden, N. J. Corrugator. 1,947,066; Feb. 13.
Siegfried, Kurt. (See Casparis, P., and Siegfried.)
Siemens & Halske Aktiengesellschaft. (See Flad, Artur, assignor.)
Silica Gel Corporation, The. (See Connolly, G. C., and Miller, assignors.)
Simplicity Engineering Company. (See Behnke, George W., assignor.)
Sims, Alfred V., Brooklyn, N. Y. Hay drying and the like. 1,946,814; Feb. 13.
Sinclair, Henry L. (See Johnson, J. M., and Sinclair.)
Singer Manufacturing Company, The. (See Clayton, Andrew B., assignor.)
Sipe, George H., Philadelphia, Pa. Ventilator. 1,946,887; Feb. 13.
Sisco, Alexander, Lorain, Ohio. Spinner. 1,946,641; Feb. 13.
Sivon, Charles A. (See Sivon, Stephen U. and C. A.)
Sivon, Stephen U., Ravenna, and C. A. Sivon, Painesville, Ohio. Phimosis hemostatic forceps. 1,946,642; Feb. 13.
Skillman, Earl C., North Branch, N. J. Hydraulic brake. 1,946,594; Feb. 13.
Skinner, Bronson C., Dunedin, Fla., assignor to Brogdex Company, Los Angeles, Calif. Treatment of insect-infested fruit in preparation for market. 1,947,115; Feb. 13.
Skipper, Edward M., and R. L. McCoy, assignors to Locke Insulator Corporation, Baltimore, Md. Adjustable gap protective device. 1,946,815; Feb. 13.
Slabaugh, William H. (See Lequillon, C. W., and Slabaugh.)
Slade, Allen A., et al. (See Bihler, Roger, assignor.)
Slagle, Edgar A., Cranford, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Chemical treatment of fabrics. 1,947,024; Feb. 13.
Sleeman, Harold P. (See Vincent, H. B., and Sleeman.)
Small, Arthur E., Michigan City, Ind., assignor to Railway Metal Products Company, Chicago, Ill. Door fixture for railway cars. 1,946,549; Feb. 13.
Small, Arthur E., Michigan City, Ind., assignor to Railway Metal Products Company, Chicago, Ill. Railway car door fixture. 1,946,550; Feb. 13.
Smidt, Arthur A., Brookfield, Ill. Window pane fastener and the like. 1,946,716; Feb. 13.
Smith, Bedford K. (See Webster, R. A., and Smith.)
Smith, Daniel F., New York, N. Y., and W. F. Purcell, Hoboken, N. J. Locking mechanism for doors. 1,946,551; Feb. 13.
Smith, Henry B., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose organic ester composition containing an ester of trichloro tertiary-butyl alcohol. 1,946,643; Feb. 13.
Smith, John E., assignor to Knapp-Monarch Company, Belleville, Ill. Cooking appliance. 1,947,232; Feb. 13.
Smith, John E., Belleville, Ill. Electrical cooking apparatus. 1,947,426; Feb. 13.
Smith, John W., assignor to The Fafnir Bearing Company, New Britain, Conn. Grading machine. 1,947,116; Feb. 13.
Smith, Roy H. (See Frayer, Lee A., assignor.)
Smith, William, Omaha, Nebr. Indicator for card tables. 1,947,067; Feb. 13.
Smith, William A., sr., Easton, Pa., assignor to Ingersoll Rand Company, Jersey City, N. J. Valve for rock drills. 1,946,989; Feb. 13.
Smith, William L., jr., assignor to May Hosiery Mills, Nashville, Tenn. Knitting machine. 1,946,767; Feb. 13.
Smith, Willoughby S., Benchams, Newton Poppleford, H. J. Garnett, Sevenoaks, and J. N. Dean, Orpington England. Continuously loaded submarine signaling cable. 1,947,314; Feb. 13.
Smitmans, John A., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Cutting machine. 1,946,919; Feb. 13.
Snell, Lyle K., Detroit, Mich., assignor, by mesne assignments, to Enton Detroit Metal Company, Cleveland, Ohio. Closure. 1,946,768; Feb. 13.
Snelling, Walter O., Allentown, Pa. Separation of vitamines from saponifiable oils. 1,947,315; Feb. 13.
Snyder, Allen G. (See Snyder, George H., and A. G.)
Snyder, Edward, Fort Wayne, Ind., assignor to General Cable Corporation, New York, N. Y. Coil taping machine. 1,946,717; Feb. 13.
Snyder, George H., Glenside, and A. G., Chestnut Hill, Pa. Cardboard box. Re19,081; Feb. 13.
Snyder, Joseph A. (See Gagné, A. L., and Snyder.)
Societe Anonyme Etablissements et Laboratories Georges Truffaut. (See Truffaut, G., and Pastak, assignors.)
Society of Chemical Industry. (See Straub, F., and Schneider, assignors.)
Sorensen, Carl H., assignor to Rhodes Metallic Packing Company, Detroit, Mich. Packing. 1,946,552; Feb. 13.
Sperry Gyroscope Company. (See Hodgman, Frederick S. assignor.)
Sperry Gyroscope Company. (See Walter, Hollis, assignor.)
Sperry Gyroscope Company. (See Zand, Stephen J., assignor.)
Spica, John R., Brooklyn, N. Y. Music stand. 1,946,644; Feb. 13.
Spillman, Albert, North Tonawanda, N. Y. Passenger carrying amusement device. 1,947,427; Feb. 13.
Spino, Leon, Clyde, N. Y. Dispensing device and condiment holder. 1,947,364; Feb. 13.

Springer, Frank B. (See Mathieu, I. S., and Springer.)
Stacey Bros. Gas Construction Company, The. (See Schürmann, Friedrich, assignor.)
Stagg, Jones P., Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company. Raggle block. 1,946,949; Feb. 13.
Stahl, Frank E., assignor to Columbus McKinnon Chain Company, Tonawanda, N. Y. Controlling the slack of cables. 1,946,920; Feb. 13.
Stalker, Edward A., Ann Arbor, Mich. Preventing spinning in aircraft. 1,946,921; Feb. 13.
Standard Brands Incorporated. (See Józsa, S., and Gore, assignors.)
Standard Oil Company. (See Lemmon, N. E., and Brown, assignors.)
Standard Oil Company. (See Plummer, William B., assignor.)
Standard Oil Company, Indiana. (See Thiele, Ernest W., assignor.)
Standard Pressed Steel Co. (See Hallowell, Howard T., assignor.)
Stanton, Gay A., Battle Creek, Mich. Spring suspension for vehicles. 1,946,769; Feb. 13.
Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Spring clutch. 1,946,816; Feb. 13.
Stathas, John P., Chicago, Ill. Internal combustion engine. 1,946,718; Feb. 13.
Staud, Cyril J., and T. F. Murray, jr., assignors to Eastman Kodak Company, Rochester, N. Y. Production of low viscosity cellulose derivatives. 1,946,654; Feb. 13.
Stearns, Pearl J., Mount Carmel, Pa. Notch plate. 1,946,720; Feb. 13.
Stegeman, Henry J., Fairfield, and S. D. Locke, assignors to The Locke Steel Chain Company, Bridgeport, Conn. Power driven lawn mower. 1,947,117; Feb. 13.
Stein, Joseph S., assignor to Lucien Lelong Inc., Chicago, Ill. Bottle or similar article. Des. 91,504; Feb. 13.
Stenfors, Frans I. E., Stockholm, Sweden. Apparatus for gasifying combustible organic substances. 1,946,817; Feb. 13.
Stephens, Charles U. (See Dautrick, O. L., Hufferd, Casse, and Stephens.)
Stevenson, Ralph A., Berkeley, assignor to Great Western Electro-Chemical Co., San Francisco, Calif. Water purification process. 1,946,818; Feb. 13.
Stevenson, William N., assignor to American Reenforced Paper Company, Attleshoro, Mass. Machine for curing concrete. 1,946,819; Feb. 13.
Stickney, Caleb, assignor of one-half to George E. Stickney, Newburyport, Mass. Combined collar and necktie holder. 1,947,317; Feb. 13.
Stickney, George E. (See Stickney, Caleb, assignor.)
Still, Carl, Recklinghausen, Germany. Obtaining valuable light oils from the distillation of coal. 1,946,721; Feb. 13.
Stöhr, Max, Berlin-Spandau, Germany, assignor to General Electric Company. Electrical distribution. 1,947,233; Feb. 13.
Stoll, Albert, assignor to National Machine Products Company, Detroit, Mich. Coupling mechanism for nuts and washers. 1,946,820; Feb. 13.
Stoll, Arthur, A. Binkert, and W. Kussmaul, assignors to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Manufacture of 1-iodo-8-hydroxy-naphthalenesulphonic acids. 1,946,950; Feb. 13.
Stoll, Karl. (See Guntermann, W., and Stoll.)
Storm, Raymond W., Pelham Manor, N. Y. Floor. 1,946,646; Feb. 13.
Stover, Russell, Chicago, Ill. Mechanism operator. 1,946,821; Feb. 13.
Straub, Fritz, and H. Schneider, Riehen, near Basel, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Azo-dyestuff containing chromium and making the same. 1,946,951; Feb. 13.
Straughan, Joseph, Shelton, Wash. Field signaling device. 1,946,595; Feb. 13.
Strawn, Roscoe D., et al. (See Adams, Ervin, assignor.)
Strickland, Orien S., Portales, N. Mex. Casket. Des. 91,505; Feb. 13.
Strongson, Herman L., New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making cored heels. 1,946,770; Feb. 13.
Strongson, Herman L., assignor to L. Oser, New York, N. Y. Automatically timed drink mixer. 1,946,771; Feb. 13.
Strothmann, Rudolph, Belleville, Ill. Radiator. 1,946,990; Feb. 13.
Studebaker Corporation, The. (See Roos, Delmar G., assignor.)
Studebaker Corporation, The. (See Wilcox, Carl C., assignor.)
Stühler, Martin, Cologne, Germany. Agitating machine. 1,947,398; Feb. 13.
Stulz-Sickles Company. (See Payne, Burt H., assignor.)
Suckow, Frederick G., Bowmansville, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,947,316; Feb. 13.
Sun Rubber Company, The. (See Lower, Melvin S., assignor.)
Sundstrand Corporation. (See Sundstrand, Oscar J., assignor.)
Sundstrand, Gustaf D., assignor, by mesne assignments, to Mattison Machine Works, Rockford, Ill. Machine for turing brake drums. 1,947,234; Feb. 13.
Sundstrand, Oscar J., Rockford, Ill., assignor to Sundstrand Corporation, Wilmington, Del. Plural-counter computing machine. 1,946,505; Feb. 13.
Sundstrand, Oscar J., Bridgeport, Conn., assignor to Sundstrand Corporation, Wilmington, Del. Automatic counter control. 1,946,823; Feb. 13.
Sundt, Edward V., Chicago, Ill. Low-capacity fuse construction. 1,946,553; Feb. 13.
Sutherland, Louis W., assignor to Sutherland Paper Company, Kalamazoo, Mich. Container. 1,946,554; Feb. 13.
Sutherland Paper Company. (See Sutherland, Louis W., assignor.)
Swanson, Ernest R., and W. Marcroft, Cranston, R. I., assignors to Universal Winding Company, Boston, Mass. Winding machine. 1,946,506; Feb. 13.
Sweeney, Orland R., assignor to Iowa State College of Agriculture and Mechanical Arts, Ames, Iowa. Producing synthetic lumber that is not attacked by molds. 1,946,952; Feb. 13.
Sweeney, Orland R., assignor to Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa. Producing synthetic lumber that is not attacked by molds. 1,946,953; Feb. 13.
Symington Company, The. (See Barrows, Donald S., assignor.)
Symington Company, The. (See Mechlin, Ernest F., assignor.)
Symington Company, The. (See Suckow, Frederick G., assignor.)
Symonds, James E., New York, assignor to United Research Corporation, Long Island City, N. Y. Phonograph record. 1,946,596; Feb. 13.
Symonds, James E., Muskegon, Mich., assignor to United Research Corporation. Phonograph record and manufacture. 1,946,597; Feb. 13.
Tate-Jones & Company. (See Hacker, Frank J., assignor.)
Taylor, Daniel G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostatic switch. 1,946,598; Feb. 13.
Taylor, Ernest R., and H. I. Davis, assignors to Eastman Kodak Company, Rochester, N. Y. Coating copper with cellulose acetate lacquer. 1,946,647; Feb. 13.
Taylor, George, Hollinghurst, Kingsway, Penwortham, Preston, England. Safety razor. 1,947,318; Feb. 13.
Taylor, Ralph W., Painesville, Ohio. Seed potato cutter. 1,946,648; Feb. 13.
Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See Ilberg, Waldemar, assignor.)
Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See Kummerer, Wilhelm, assignor.)
Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See Leib, August, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie mit beschränkter Haftung. (See Runge, Wilhelm, assignor.)
Telereg-ister Corporation, The. (See Haselton, Merton L., assignor.)
Temple, Elmer J., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,947,281; Feb. 13.
Ter Meer, Gustav, Munich, Germany, assignor to Albert T. Otto & Sons, New York, N. Y. Centrifugal separator. 1,947,068; Feb. 13.
Ternstedt Manufacturing Company. (See Hardesty, Francis D., assignor.)
Ternstedt Manufacturing Company. (See Lemm, Bonnie E., assignor.)
Texas Company, The. (See Powell, Ross C., assignor.)
Tharp, Bessie M., administratrix. (See Crocker, T. F., and Tharp.)
Tharp, Victor S. (See Crocker, T. F., and Tharp.)
Thearle, Ernest L., Schenectady, N. Y., assignor to General Electric Company. Portable vibration indicator. 1,947,280; Feb. 13.
Theis, Amos H., Lawrenceburg, Ind. Manipulating device. 1,947,282; Feb. 13.
Thiele, Ernest W., Chicago Ill., assignor to Standard Oil Company, Indiana, Whiting, Ind. Preheating chamber. 1,947,319; Feb. 13.
Thomann, Frederick A. (See Neighbour, L. B., and Thomann.)
Thomas, Arthur W., New York, and M. Mattikow Brooklyn, N. Y. Vegetable jelly composition. 1,946,649; Feb. 13.
Thomas, Horace T., assignor to Reo Motor Car Company, Lansing, Mich. Clutch throw-out bearing. 1,947,428; Feb. 13.
Thomas, Horace T. and A. B. Hays, Lansing, Mich. Transmission control mechanism for motor vehicles. 1,947,235; Feb. 13.
Thomas, Leslie G., Englewood, N. J., assignor to De Jur-Amsco Corporation, New York, N. Y. Variable condenser. 1,947 069; Feb. 13.
Thomas, Noah T., assignor to Hartford Faience Company, Hartford, Conn. Lighting fixture. 1,947,118; Feb. 13.
Thomas, R., & Sons Company, The. (See Vincent, H. B., and Sleeman, assignors.)
Thomas, Thomas R., New York N. Y., assignor to Auto Research Corporation. Clutch control lubrication. 1,946,507; Feb. 13.
Thomas, William R. (See Jones, K. D., and Thomas.)
Thompson, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Key ejecting means for cylinder locks. 1,946,722; Feb. 13.
Thompson, John E., Paisley, Ontario, Canada. Airplane propeller. 1,947,365; Feb. 13.
Thompson, Morgan J. (See Davison, S. W., and Thompson.)

Thompson, Robert H., assignor to L. M. Harvey, Los Angeles, Calif. Deep well pumping means. 1,946,723; Feb. 13.
Thurber, Arthur E., and R. H. Sholts, Sherrill, assignor to Oneida Community, Limited, Oneida, N. Y. Anti-tarnishing material for silverware and other metals and producing the same. 1,946,508; Feb. 13.
Tichenor, Carl M., North Muskegon, Mich., assignor to United Research Corporation. Device for centering a tablet on a turntable. 1,946,599; Feb. 13.
Timian, Harold H., assignor to Continental Motors Corporation, Detroit, Mich. Piston. 1,947,177; Feb. 13.
Titanium Alloy Manufacturing Company, The. (See Comstock, George F., assignor.)
Tondreau, Albert W., Hollywood, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Magazine for motion picture film. 1,946,600; Feb. 13.
Tormyn, Herman, and F. F. Wiethoff, assignors to General Motors Corporation, Detroit, Mich. Machine to pierce a plurality of holes in a wheel hub shell for short spokes. 1,946,991; Feb. 13.
Tormyn, Herman, and F. F. Wiethoff, assignors to General Motors Corporation, Detroit, Mich. Machine to pierce twenty holes in a wheel hub shell for long spokes. 1,946,992; Feb. 13.
Tougas, Emile E., Wollaston, and M. T. Schumb, Milton, assignors to Boston Gear Works, Inc., Quincy, Mass. Machine for dressing emery hobs. 1,946,888; Feb. 13.
Townsend, Darwin W., and J. Brower, assignors to Chain Belt Company, Milwaukee, Wis. Sludge remover. 1,947,429; Feb. 13.
Trail, Herbert H., Vancouver, British Columbia, Canada, assignor to Motor Devices, Inc., Chicago, Ill. Controlling starting motor and ignition circuits. 1,946,555; Feb. 13.
Trammell, Webb, U. S. Navy. Insect trap. 1,946,509; Feb. 13.
Tranaas, Emil L., assignor to Koehring Company, Milwaukee, Wis. Tie member for tandem pavers. 1,946,922; Feb. 13.
Traut, Clifford, assignor to The Higgin Manufacturing Company, Newport, Ky. Device for controlling tension of spring rollers. 1,947,070; Feb. 13.
Trinity Wheel Corporation. (See Baker, Frederick W., assignor.)
True, Melville J., assignor to Armour and Company, Chicago, Ill. Egg filtering apparatus. 1,946,772; Feb. 13.
Truesdell, Fred A., Cleveland, Ohio. Hydraulic mechanism. 1,946,510; Feb. 13.
Truffaut, Georges, Versailles, and I. Pastak, Viroflay, assignors to the firm Societe Anonyme Etablissements et Laboratories Georges Truffaut, Versailles, France. Remedy for combating diseases of plants and in a process for applying same. 1,947,320; Feb. 13.
Trumbull Electric Manufacturing Company, The. (See Carlson, John E., assignor.)
Trumbull Electric Manufacturing Company, The. (See Wessel, Howard H., assignor.)
Trumpler, William E., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Bearing. 1,946,993; Feb. 13.
Truscon Steel Company. (See Kahn, Julius, assignor.)
Truscon Steel Company. (See Morgan, David H., assignor.)
Turner, Clark H., assignor to Foster Brothers Manufacturing Company, Inc., Baltimore, Md. Studio couch frame. 1,946,822; Feb. 13.
Turner, John C., Dayton, Ohio. Toy wheel. 1,947,025; Feb. 13.
Ullstrand, Hugo M. (See Bergholm, H. K., and Ullstrand.)
Umansky, Leonid A., Schenectady, N. Y., assignor to General Electric Company. Length measuring indicator. 1,947,399; Feb. 13.
Una Welding, Incorporated. (See Anastasiadis, Loulis G., assignor.)
Uni-Flo Grille Corporation. (See Germonprez, John A., assignor.)
Union Special Machine Company. (See Christensen, N. V., and Zeier, assignors.)
Union Special Maschinenfabrik, G. m. b. H. (See Maier, Karl, assignor.)
Union Steel Products Company. (See Hatch, Charles T., assignor.)
United Autographic Register Co. (See Peters, Oscar P., assignor.)
United-Carr Fastener Corporation. (See Johnson, Gustav, assignor.)
United Engineering & Foundry Company. (See Smitmans, John A., assignor.)
United Research Corporation. (See Baumann, Harold C., assignor.)
United Research Corporation. (See Head, Robert, assignor.)
United Research Corporation. (See Symonds, James E., assignor.)
United Research Corporation. (See Tichenor, Carl M., assignor.)
United Shoe Machinery Corporation. (See Brostrom, Charles G., assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporation. (See Kinney, Fay D., assignor.)
United Shoe Machinery Corporation. (See Strongson, Herman L., assignor.)
United States Gypsum Company. (See Birdsey, C. R., and Reel, assignors.)
Universal Draft Gear Attachment Company. (See Camp, Percy B., assignor.)
Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
Universal Oil Products Company. (See Huff, Lyman C., assignor.)
Universal Oil Products Company. (See Jurrissen, A. W., Cox, and Wood, assignors.)
Universal Oil Products Company. (See Mekler, Lev A., assignor.)
Universal Oil Products Company. (See Pratt, Clifton J., assignor.)
Universal Oven Company. (See Elliott, Irwin, assignor.)
Universal Products Co., Inc. (See Goddard, P. B., and Ketcham, assignors.)
Universal Winding Company. (See Swanson, E. R., and Marcroft, assignors.)
University of Illinois, Board of Trustees. (See Burks, Dana, jr., assignor.)
Utah Radio Products Co. (See Barrett, Edward L., assignor.)
Uvalde Rock Asphalt Company. (See Alvey, Glenn H., assignor.)
Vandecaveye, Silvere C., assignor to State College of Washington, Pullman, Wash. Manufacture of unfermentable fruit juices. 1,947,237; Feb. 13.
Vanderbilt, R. T., Company. (See Murrill, Paul I., assignor.)
Van Dorn, Herbert E. (See Van Dorn, William E., assignor.)
Van Dorn, Herbert E., Chicago, Ill., assignor to William E. Van Dorn, Pasadena, Calif. Friction draft gear. 1,946,650; Feb. 13.
Van Pelt, Elmer L., assignor to American Ball-Mill Company, Denver, Colo. Discharge for ball mills. 1,946,511; Feb. 13.
Van Winkle, Marshall, jr. (See Schneider, Otto, assignor.)
Vapor Car Heating Company. (See Russell, E. A., and Miller, assignors.)
Vaughn Machinery Company, The. (See McIlvried, Edwin J., assignor.)
Ventura, Joseph L., Park Ridge, Ill. Combination door cushion and door catch. 1,946,954; Feb. 13.
Vincent, Harold B., and H. P. Sleeman, assignors to The R. Thomas & Sons Company, East Liverpool, Ohio. Arcing horn for insulators. 1,947,321; Feb. 13.
Viragh, Stephen, Wilkinsburg, Pa. Window sash. 1,946,601; Feb. 13.
Viruette, Joseph D., assignor of one-half to E. T. Leary, Schenectady, and one-fourth to B. De Angelo, Oneonta, N. Y. Device for removing a measured quantity of cream from a bottle. 1,946,651; Feb. 13.
Von Hanffstengel, Georg, Nuremberg, Germany. Sealing ring for use in gas holders of disk type. 1,946,512; Feb. 13.
Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,946,602; Feb. 13.
Von Webern, Guido. (See Casto, L. V., and Von Webern.)
Von Wedel, Carl J. R. H., Berlin, Germany, assignor to Electrons, Inc. Cathode for electrical discharge devices. 1,946,603; Feb. 13.
Wachs, Benjamin and M. A., Brooklyn, and D. H. Colin, New York, N. Y. Vending machine. 1,947,322; Feb. 13.
Wachs, Murray A. (See Wachs, Benjamin and M. A., and Colin.)
Waderlow, Benjamin A., Flint, assignor to General Motors Corporation, Detroit, Mich. Car cooler. 1,946,994; Feb. 13.
Wadman, Harold A., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Woven wire conveyer belt. Re19,074; Feb. 13.
Wagner, Frederick P. (See Brauer, A. J., and Wagner.)
Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, Liverpool, England. Glass polishing tool. 1,946,955; Feb. 13.
Walgreen Co. (See Bemis, Kenneth E., assignor.)
Walgreen Co. (See Johnston, Marriott T., assignor.)
Walle, Ludwig S., Lansdowne, Pa., assignor to General Electric Company. Electroresponsive device. 1,947,236; Feb. 13.
Wallgren, August G. F., assignor to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,946,652; Feb. 13.
Walsh, James F., South Orange, N. J., assignor to Celluloid Corporation. Wood filler. 1,947,438; Feb. 13.
Walter, Felix. (See Welbezahn, K., and Walter.)
Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Stapling machine. 1,946,778; Feb. 13.
Walter, Hollis, Baldwin, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Monorail car and the like. 1,947,119; Feb. 13.
Walton, George W., Dallas, Tex. Valve. 1,947,071; Feb. 13.
Walton, Robert C., and H. T. Gudgen, Coffeyville, Kans. Expansion joint. 1,947,072; Feb. 13.
Ward, Alan C., Ada, assignor to W. C. Ward, Warren, Ohio. Centrifugal clutch. 1,946,824; Feb. 13.
Ward, Harry A., Shreveport, La. Gas and fluid separator. 1,947,366; Feb. 13.
Ward, Walter J., Lakewood, C. E. Bauerle, Cleveland, and F. H. Dalrymple, Bedford, Ohio. Inspection apparatus. 1,947,142; Feb. 13.
Ward, W. C. (See Ward, Alan C., assignor.)

Warner Bros. Pictures, Inc. (See Tondreau, Albert W., assignor.)
Waseige, Charles R., Rueil, France, assignor to Eclipse Aviation Corporation, East Orange, N. J. Driving mechanism. 1,946,956; Feb. 13.
Washington, State College of. (See Vandecaveye, Silvere C., assignor.)
Waterbury Tool Company, The. (See Ellis, Arthur L., assignor.)
Watson, Clifford D. (See Fitch, J. A., and Watson.)
Weaver, Brenton B., Westmount, Quebec, Canada, assignor to Bagpak, Inc. Multi-ply bag. 1,946,995; Feb. 13.
Webster, Robert A., Washington, D. C., and B. K. Smith, Alexandria, Va. Fly-wheel starting motor. 1,946,513; Feb. 13.
Webster, Warren E. (See Hott, I. Von K., and Webster.)
Weibezahn, Karl and F. Walter, assignors to Aktiengesellschaft für Stickstoffdünger, Knapsack, near Cologne-on-the-Rhine, Germany. Apparatus for preparing acetylene and simultaneously producing substantially dry calcium hydroxide. 1,947,120; Feb. 13.
Wein, Meyer, Brooklyn, N. Y. Brush. 1,946,653; Feb. 13.
Weinstein, Abraham S., Brighton, Mass. Rotary crown ventilator. 1,946,724; Feb. 13.
Weis, John P., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y. Trimming attachment. 1,946,514; Feb. 13.
Weis, John P., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Trimming machine. 1,946,556; Feb. 13.
Weis, John P., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y. Trimming machine. 1,946,557; Feb. 13.
Weis, John P., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y. Trimming mechanism. 1,946,558; Feb. 13.
Weiskopf, Edwin C., New York, N. Y. Dispensing device. 1,946,559; Feb. 13.
Welty, Albert B., Kenilworth, Ill., assignor to International Harvester Company. Straw windrower for harvester-threshers. 1,946,654; Feb. 13.
Wepsco Steel Products Co. (See Moorman, Charles L., assignor.)
Wessel, Howard H., New Britain, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electrical connecter. 1,946,889; Feb. 13.
Western Electric Company. (See Nydegger, Roland R., assignor.)
Western Gas Construction Company, The. (See Zoll, Maurice B., assignor.)
Western States Machine Company, The. (See Roberts, Eugene, assignor.)
Western Union Telegraph Company, The. (See Haglund, H. H., and Morgenstern assignors.)
Western Union Telegraph Company, The. (See Hoover, R., and Wheeler, assignors.)
Westinghouse Electric Elevator Company. (See Ellis, Charles E., jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bauer, F., and Kafka, assignors.)
Westinghouse Electric and Manufacturing Company. (See Beckett, R. V., and Jones, assignors.)
Westinghouse Electric & Manufacturing Company. (See Cobb, Harold E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Franck, Clarence C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hill, C. F., and Goff, assignors.)
Westinghouse Electric & Manufacturing Company. (See Jones, Carl G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Knowles, Dewey D., assignor.)
Westinghouse Electric & Manufacturing Company. (See McCulloch, Leon, assignor.)
Westinghouse Electric & Manufacturing Company. (See Parsons, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ponsonby, Amos A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Potter, John A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Rudenberg, Reinhold, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schenkel, Moritz, assignor.)
Westinghouse Electric & Manufacturing Company. (See Scott, Howard, assignor.)
Weymouth, Harry G., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Registering fluid meter. 1,947,367; Feb. 13.
Wharton, Charles H., Chicago, Ill. Denture. 1,947,026; Feb. 13.
Wheeler, Evan R. (See Hoover, R., and Wheeler.)
Wheeling Steel Corporation. (See Rollason, Charles H., assignor.)
Whirlpool Incorporated. (See De Pew, Chester C., assignor.)
Whistlecroft, Arthur W. (See Franklin, C. S., and Whistlecroft.)
White, Paul W., and P. Heinse, assignors to Parva Products Company, Chicago, Ill. Slide buckle. 1,947,368; Feb. 13.
Whitehead, Richard H., and W. E. Porter, assignors to The New Haven Clock Company, New Haven, Conn. Clock mechanism for automobiles and the like. 1,946,890; Feb. 13.
Whittenton Manufacturing Company. (See Kyle, Joseph L., assignor.)
Wick, Albert H., St. Louis, Mo. Building unit. 1,946,560; Feb. 13.
Widerman, Morris, Brooklyn, N. Y. Curl clip. 1,946,561; Feb. 13.
Wiethoff, F. F. (See Tormyn, H., and Wiethoff.)
Wight, Edward H. (See Ober, B., and Wight.)
Wilcolator Company, The. (See Fonseca, Edward L., assignor.)
Wilcox, Carl C., assignor to The Studebaker Corporation, South Bend, Ind. Drying oven. 1,946,923; Feb. 13.
Wilcox-Rich Corporation. (See Charlton, George, assignor.)
Wilde, Hans, Cliffside Park, N. J. Textile fabric or the like. Des. 91,506; Feb. 13.
Wilhelm, John H., Hamilton Beach, assignor to Margon Corporation, New York, N. Y. Eye set for dolls. 1,947,283; Feb. 13.
Williams, Djalma D., Dallas, Tex., assignor to Chicago Bridge & Iron Company, Chicago, Ill. Fitting-up yoke. 1,946,515; Feb. 13.
Willis, Clodius H., Princeton, N. J., assignor to General Electric Company. System of electrical distribution. 1,947,238; Feb. 13.
Wilson Products Inc. (See Fraser, Charles E., assignor.)
Wilms, Gustav O., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis. Compressible electrical resistor. 1,946,774; Feb. 13.
Wilson, Francis C., North Kansas City, Mo. Interlocking wheel. 1,947,178; Feb. 13.
Wilson, George M., Schenectady, N. Y. Locomotive boiler throat sheet construction. 1,946,996; Feb. 13.
Wilson, John M., Osborn, Ohio. Propeller. 1,947,073; Feb. 13.
Wilson-Jones Company. (See Gideon, Victor, assignor.)
Winston, William J., assignor to Mitts & Merrill, Saginaw, Mich. Shredding paper and the like. 1,947,323; Feb. 13.
Wired Radio, Inc. (See Duncan, Robert D., jr., assignor.)
Wired Radio, Inc. (See Hotopp, Alfred H., assignor.)
Wittcoff, Edward, University City, assignor to Evr-Kleen Seat Pad Company, St. Louis, Mo. Seat cover. 1,946,825; Feb. 13.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Film winding device for motion picture apparatus. 1,946,604; Feb. 13.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Motion picture film magazine. 1,946,605; Feb. 13.
Witzleb, Otto, Dixon, Ill. Movable and adjustable plumbing fixture hanger. 1,947,369; Feb. 13.
Wochley, Frank E. (See Grady, T., and Wochley.)
Wood, Andrew M. (See Jurrissen, A. W., Cox, and Wood.)
Wood, John, Manufacturing Company. (See Dougherty, Robert J., assignor.)
Woodard, Hugh E. (See McReynolds, William E., assignor.)
Woodward, Harold E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes. 1,947,027; Feb. 13.
Woodward, Harold E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes and their preparation. 1,947,028; Feb. 13.
Wright, Harry F. (See Dunn, I. L., Wright, and Crooks.)
Wrigley, Wm., Jr. Company. (See Johnson, A. E., and Lindsey, assignors.)
Wurfschmidt, Hugo, New York, assignor to John G. Elbs, Rochester, N. Y. Abrading block. 1,946,562; Feb. 13.
Yale & Towne Manufacturing Company, The. (See Thompson, Frank E., assignor.)
Yoerg, Henry, St. Paul, Minn. Fuel-feeding apparatus for locomotives. 1,947,074; Feb. 13.
Yonkman, George, et al. (See Hyma, Abe, assignor.)
Young, Noah A., Duluth, Minn. Thumb shift for typewriters. 1,947,143; Feb. 13.
Yunker, William E. (See Lindberg, I. F., and Yunker.)
Zack, Edgar G., assignor to Sheffield Shale Products Company, Sheffield, Ill. Building construction. 1,947,239; Feb. 13.
Zalkind, Philip, New York, N. Y. Container. 1,946,516; Feb. 13.
Zand, Stephen J., Forest Hills, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyroscopic instrument for aircraft. 1,946,657; Feb. 13.
Zeier, Frederick F. (See Christensen, N. V., and Zeier.)
Zerbee, Alfonso F., New Rochelle, N. Y. Toothbrush. 1,947,324; Feb. 13.
Zerk, Oscar U., Cleveland, Ohio. Tire cover. 1,947,144; Feb. 13.
Zerk, Oscar U., Cleveland, Ohio. Tire cover. 1,947,145; Feb. 13.
Zerk, Oscar U., Cleveland, Ohio. Shackle mechanism. 1,947,146; Feb. 13.
Zerk, Oscar U., Cleveland, Ohio. Lever. 1,947,147; Feb. 13.
Zoll, Maurice B., Fort Wayne, Ind., assignor to The Western Gas Construction Company. Apparatus for measuring gases. 1,947,370; Feb. 13.
Zwickl, Joseph R., Chicago, Ill. Weighing scale. 1,946,775; Feb. 13.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF FEBRUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrading and polishing device. W. E. McReynolds. 1,947,054; Feb. 13.
Abrading block. H. Wurfschmidt. 1,946,562; Feb. 13.
Accelerator for rubber vulcanization processes. O. Behrend. 1,946,960; Feb. 13.
Accounting machine, Perforated record-controlled. J. R. Peirce. 1,946,015; Feb. 13.
Acetic anhydride, Manufacturing. R. Meingast and M. Murdam. 1,946,707; Feb. 13.
Acetylene and simultaneously producing substantially dry calcium hydroxide, Apparatus for preparing. K. Welbesahn and F. Walter. 1,947,120; Feb. 13.
Adjustable slide fastener. D. I. Reiter and G. W. Lane. 1,937,424; Feb. 13.
Advertising matter in tires, Devices for supporting. H. E. Kistler. 1,946,861; Feb. 13.
Agatized bodies, Making. S. H. Peltier. 1,946,879; Feb. 13.
Agitating machine. M. Stübler. 1,947,398; Feb. 13.
Air compressor. J. M. Jones. 1,946,857; Feb. 13.
Aircraft, Preventing spinning in. E. A. Stalker. 1,946,921; Feb. 13.
Airplane propeller. J. E. Thompson. 1,947,365; Feb. 13.
Alarm system for banks and the like. W. H. Davidson. 1,946,781; Feb. 13.
Alloy. A. P. Bixler. 1,946,609; Feb. 13.
Alloys. B. H. Payne. 1,947,167; Feb. 13.
Altimeter. P. Kollsman. Re91,079; Feb. 13.
Aluminum base alloys. W. Bonsack. 1,947,121; Feb. 13.
Amplifier control. H. A. Affel and E. I. Green. 1,946,607; Feb. 13.
Amplifier, Mixer. H. C. Baumann. 1,946,565; Feb. 13.
Amplifying system. E. I. Koch. 1,947,049; Feb. 13.
Amusement device, Passenger carrying. A. Spillman. 1,947,427; Feb. 13.
Antenna counterpoise system. H. T. Friis. 1,947,256; Feb. 13.
Anti-blinking device. F. W. Frey. 1,947,388; Feb. 13.
Antitarnishing material for silverware and other metals and producing the same. A. E. Thurber and R. H. Sholtz. 1,946,508; Feb. 13.
Apparatus for preparation of sewage for pumping. W. C. Munroe and R. B. Morse. 1,946,754; Feb. 13.
Arch support. R. T. Benning. 1,947,000; Feb. 13.
Assembling means. H. A. Douglas. 1,946,967; Feb. 13.
Atomizer. R. Mueller. 1,947,353; Feb. 13.
Automatic by-pass valve. D. Firth. 1,947,040; Feb. 13.
Automobile body. W. Barclay. Re19,078; Feb. 13.
Automobile jack. N. A. Nicholson. 1,946,984; Feb. 13.
Automobile locking mechanism. T. F. Cullinan. 1,947,036; Feb. 13.
Automobiles and other road vehicles, Lifting or jacking-up. T. E. C. Lintern. 1,947,340; Feb. 13.
Axle for automobiles and the like, Adjustable front. F. J. Kahle and R. W. Baer. 1,946,858; Feb. 13.
Axle for vehicles, Oscillating. J. Q. Shunk. 1,947,363; Feb. 13.
Axle mounting. L. H. Irish. 1,946,624; Feb. 13.
Azo-dyestuff containing chromium and making the same. F. Straub and H. Schneider. 1,946,951; Feb. 13.
Bag: *See*—
Multi-ply bag.
Bags in tires, Apparatus for inserting curing. C. W. Leguillon and W. H. Slabaugh. 1,947,270; Feb. 13.
Bait, Artificial. E. Liotta. 1,946,979; Feb. 13.
Bank-check post-card folder. K. B. McCarthy. 1,946,751; Feb. 13.
Bar: *See*—
Gas meter bar. Harvester finger bar.
Barrel. C. J. Robinson. 1,947,228; Feb. 13.
Basket cover fastener. W. W. Hargroves. 1,947,393; Feb. 13.
Basket handle. L. M. Hile. 1,946,793; Feb. 13.
Basket lining for centrifugals. E. Roberts. 1,946,500; Feb. 13.
Bathing beach accessory. V. W. Armstrong. 1,946,998; Feb. 13.
Battery terminal. H. H. Henry. 1,947,158; Feb. 13.
Bead chain. T. Russell. 1,947,113; Feb. 13.
Bearing: *See*—
Clutch throw-out bearing. Composite bearing.
Bearing. W. E. Trumpler. 1,946,993; Feb. 13.
Bearing. A. G. F. Wallgren. 1,946,652; Feb. 13.
Bearings, Assembling roller. P. B. Goddard and F. Ketcham. 1,947,004; Feb. 13.
Beater roll. S. Milne. 1,947,440; Feb. 13.
Beer cooling and dispensing apparatus. H. H. Harr. 1,946,691; Feb. 13.
Belt, Woven wire conveyer. H. A. Wadman. Re19,074; Feb. 13.
Belting for waist belts or similar article, Leather. E. O. Peabody. Des. 91,495; Feb. 13.
Benzanthrone-1-aldehyde and making same. O. Bayer. 1,946,829; Feb. 13.
Blanket. J. L. Kyle. Des. 91,488; Feb. 13.
Block: *See*—
Abrading block. Raggle block.
Blood pressure registering machine. J. F. Parker, jr., and J. L. Parker. 1,946,985; Feb. 13.
Blow-off valve. A. P. Elten. 1,947,409; Feb. 13.
Board: *See*—
Fabricating board. Stock quotation board.
Boiler: *See*—
Locomotive boiler. Steam boiler.
Boiler feed water regulator. B. Garilus. 1,946,529; Feb. 13.
Bolt. J. A. MacLean. 1,946,800; Feb. 13.
Bookholder. R. W. Mason. 1,947,053; Feb. 13.
Boring machine for piston rings. W. J. Cramer. 1,946,523; Feb. 13.
Bottle. J. P. Sgueglia. Des. 91,503; Feb. 13.
Bottle or similar article. J. S. Stein. Des. 91,504; Feb. 13.
Bowl, Closet. R. E. Crane and D. E. Gulick. 1,947,439; Feb. 13.
Box: *See*—
Cardboard box. Tobacco box.
Floating stuffing box.
Box. C. H. Goodnow. 1,947,199; Feb. 13.
Bracket: *See*—
Curtain roller bracket.
Brake: *See*—
Hydraulic brake. Vehicle brake.
Mine car brake.
Brake. E. E. Evans. 1,946,526; Feb. 13.
Brake. H. E. Golliner. 1,946,849; Feb. 13.
Brake. C. G. Keller. 1,947,091; Feb. 13.
Brake. S. Powell. 1,946,758; Feb. 13.
Brake adjuster. P. B. Camp. 1,947,404; Feb. 13.
Brake mechanism. H. B. Benson. 1,946,892; Feb. 13.
Brake mechanism. W. R. Brewer. 1,946,928; Feb. 13.
Brick-block construction, Interlocking. F. E. Clark. 1,947,188; Feb. 13.
Brush. M. Wein. 1,946,653; Feb. 13.
Brush, Fountain shaving. I. S. Mathieu and F. B. Springer. 1,946,867; Feb. 13.
Buckle. P. Heinze. 1,947,394; Feb. 13.
Buckle, Slide. P. W. White and P. Heinze. 1,947,368; Feb. 13.
Buffer, Breast. V. Pascuzzi. 1,947,101; Feb. 13.
Buffer wheel. A. Levett. 1,946,630; Feb. 13.
Building construction. J. B. Cuneo. 1,946,672; Feb. 13.
Building construction. E. G. Zack. 1,947,239; Feb. 13.
Building unit. A. H. Wick. 1,946,560; Feb. 13.
Bung fixture for sheet metal containers. T. W. Rieke. 1,947,425; Feb. 13.
Burner: *See*—
Gas burner.
Cabinet for refreshening biscuits, rolls, and the like. W. A. Brouillet. 1,946,963; Feb. 13.
Cabinet, Towel. J. H. Addler and H. W. Crowson. 1,946,997; Feb. 13.
Cable, Continuously loaded submarine signaling. W. S. Smith, H. J. Garnett, and J. N. Dean. 1,947,314; Feb. 13.
Cable terminal. C. A. Rowley. 1,946,713; Feb. 13.
Cables, Controlling the slack of. F. E. Stahl. 1,946,920; Feb. 13.
Caissons, Sinking. T. L. Green. 1,946,579; Feb. 13.
Cake and the like, Ice-box. W. B. Jones. 1,946,495; Feb. 13.
Calculating machine. G. Lerch. 1,946,942; Feb. 13.
Calculator, Listing. L. P. Crosman. 1,946,572; Feb. 13.
Calf weaner. C. O. Myhre. 1,947,273; Feb. 13.
Calipering mechanism. A. Allen and J. G. Callan. 1,946,924; Feb. 13.
Camera. C. D. Chase. 1,946,886; Feb. 13.
Camera. E. H. Horns. 1,946,855; Feb. 13.
Cameras, Operating mechanism for. G. P. Grant. 1,946,687; Feb. 13.
Can: *See*—
Sanitary can.
Can box, canister, and the like. J. F. Crowley. 1,947,382; Feb. 13.
Car and the like, Monorail. H. Walter. 1,947,119; Feb. 13.
Car cooler. B. A. Waderlow. 1,946,994; Feb. 13.
Car, Railway. M. P. Blomberg and W. H. Mussey. 1,946,520; Feb. 13.
Car truck. M. H. Martin. 1,946,538; Feb. 13.
Carbide, Cemented columbium. F. C. Kelley. 1,947,206; Feb. 13.
Carburetor. F. C. Mock. 1,947,162; Feb. 13.
Carburetor device. A. Hyma. 1,947,129; Feb. 13.
Carburetor heater, Vacuum controlled. C. H. Kirby. 1,947,048; Feb. 13.
Card, Advertising display. H. Lewy. Des. 91,490; Feb. 13.

Cardboard box. G. H. and A. G. Snyder. Re19,081; Feb. 13.
Card handling machine. C. D. Lake and P. Shores. 1,946,910; Feb. 13.
Carpet. F. S. Murphy. Des. 91,492; Feb. 13.
Carpet material. F. W. Clark. 1,947,152; Feb. 13.
Carrier: *See*—
Luggage carrier.
Case: *See*—
Luggage carrier case. Mascara case.
Cash register. S. Brand. 1,946,469; Feb. 13.
Cash register. E. J. Von Pein. 1,946,602; Feb. 13.
Casing for coal burning stokers. E. C. Sammons. Des. 91,502; Feb. 13.
Casket. O. S. Strickland. Des. 91,505; Feb. 13.
Caster attachment for sleds. C. A. Fox. 1,947,154; Feb. 13.
Cathode for electrical discharge devices. C. J. R. H. Von Wedel. 1,946,608; Feb. 13.
Cellulose derivative composition. E. F. Izard. 1,947,008; Feb. 13.
Cellulose derivatives, Production of low viscosity. C. J. Staud and T. F. Murray, jr. 1,946,645; Feb. 13.
Cellulose esters, Treating. M. Marasco. 1,947,419; Feb. 13.
Cellulose organic ester composition containing an ester of trichloro tertiary-butyl alcohol. H. B. Smith. 1,946,643; Feb. 13.
Cellulose organic ester composition containing derivatives of diethylene glycol. T. F. Murray, jr., and W. O. Kenyon. 1,946,635; Feb. 13.
Cementing means. F. D. Kinney. 1,946,797; Feb. 13.
Centrifugal clutch. A. C. Ward. 1,946,824; Feb. 13.
Centrifugal separator. G. ter Meer. 1,947,068; Feb. 13.
Chain: *See*—
Bead chain.
Chain structures, Method of and apparatus for assembling. I. F. Lindberg and W. E. Yunker. 1,946,911; Feb. 13.
Chair: *See*—
Commode chair. Folding chair.
Chair and foot rest therefor. W. R. Malcolm. 1,947,212; Feb. 13.
Chair and high chair, Combination. G. Agati. 1,946,826; Feb. 13.
Charge forming device. F. B. Aseltine. 1,946,608; Feb. 13.
Chemical treatment of fabrics. E. A. Slagle. 1,947,024; Feb. 13.
Chopper, Food. M. C. Dellinger. 1,947,153; Feb. 13.
Chute for material to be shot. B. Karthäuser. 1,947,011; Feb. 13.
Circuit breaker. J. C. Daley. 1,947,037; Feb. 13.
Circuit breaker, Electric. S. Ruppel. 1,947,280; Feb. 13.
Circuit breaker lever. C. H. Davis, jr. Re19,083; Feb. 13.
Circuit controlling appliance, Electric. J. Sachs. 1,946,504; Feb. 13.
Circuit controlling appliance, Electric. J. Sachs. 1,947,276; Feb. 13.
Circuit interrupting apparatus. W. E. Paul. 1,947,224; Feb. 13.
Circuits, Controlling starting motor and ignition. H. H. Trail. 1,946,555; Feb. 13.
Circuits, Electric translating. C. A. Sabbah. 1,947,231; Feb. 13.
Circuits, Pentode output. R. A. Braden. 1,947,184; Feb. 13.
Clamp: *See*—
Electric fuse clamp. Fuse clamp.
Clip: *See*—
Curl clip.
Clip for steel partition. A. S. Driver. 1,946,675; Feb. 13.
Clock mechanism for automobiles and the like. W. H. Whitehead and W. E. Porter. 1,946,890; Feb. 13.
Closure. L. K. Snell. 1,946,768; Feb. 13.
Cloth, Supporting wire. H. R. Rafton. 1,947,307; Feb. 13.
Clothes-drying rack, Portable indoor. C. L. Houston. 1,946,856; Feb. 13.
Clutch: *See*—
Centrifugal clutch. Spring clutch.
Clutch. A. J. Meyer. 1,947,214; Feb. 13.
Clutch and transmission mechanism. E. S. Bush. 1,947,033; Feb. 13.
Clutch control for mangles. A. Glock. 1,947,156; Feb. 13.
Clutch mechanism. J. Mikulasek. 1,947,420; Feb. 13.
Clutch throw-out bearing. H. T. Thomas. 1,947,428; Feb. 13.
Clutch transmission, Semiautomatic roller. G. Blackstock. 1,947,374; Feb. 13.
Coal, Coking. G. Komarek. 1,946,628; Feb. 13.
Coaster. M. W. Roe. Des. 91,501; Feb. 13.
Coating composition and making the same. A. Heck. 1,947,415; Feb. 13.
Coating compositions, Manufacturing. A. Heck. 1,947,414; Feb. 13.
Coil taping machine. E. Snyder. 1,946,717; Feb. 13.
Collapsible container. R. J. Cody. 1,947,190; Feb. 13.
Collapsible tube. M. M. L. Burrell. 1,947,376; Feb. 13.
Collar and necktie holder, Combined. C. Stickney. 1,947,317; Feb. 13.
Collet chuck. G. Laughlin. 1,946,629; Feb. 13.
Collet chuck. A. Reimers. 1,947,060; Feb. 13.
Coloration of materials made with or containing cellulose acetate. G. H. Ellis and H. C. Olpin. 1,947,038; Feb. 13.
Combine, Tillage. R. E. Dunham. 1,947,127; Feb. 13.
Commode chair. L. R. Bickel. 1,947,373; Feb. 13.
Compass, Magnetic. G. W. Pickard. 1,946,710; Feb. 13.
Composite bearing. P. C. Haas. 1,946,790; Feb. 13.
Compression unit. E. B. Mallory. 1,947,016; Feb. 13.
Computing machine, Plural-counter. O. J. Sundstraud. 1,946,505; Feb. 13.
Concrete mixing method. W. W. Lillard. 1,947,345; Feb. 13.
Concrete sections and dowel pin covers therefor, Joining. E. H. Angier. 1,946,658; Feb. 13.
Condenser: *See*—
Cotton condenser. Variable condenser.
Electric condenser.
Condenser for refrigerating apparatus. H. K. Bergholm and H. M. Ullstrand. 1,946,467; Feb. 13.
Confection, Frozen. R. V. Jones. 1,947,010; Feb. 13.
Connecter: *See*—
Electrical connecter.
Connecter for anchor rods and guy wires, Take-up. J. Blackburn. 1,946,830; Feb. 13.
Connecting rod. F. Schaefer. 1,947,278; Feb. 13.
Constant frequency apparatus. P. H. Betts. 1,947,182; Feb. 13.
Container: *See*—
Collapsible container. Vacuum container.
Open ended container.
Container. A. B. Haslacher. 1,947,083; Feb. 13.
Container. C. H. Rollason. 1,947,140; Feb. 13.
Container. L. W. Sutherland. 1,946,554; Feb. 13.
Container. P. Zalkind. 1,946,516; Feb. 13.
Control apparatus. H. Hollerith, jr. 1,946,743; Feb. 13.
Control apparatus. A. E. Krogh. 1,947,297; Feb. 13.
Control apparatus for vapor electric discharge devices. W. D. Cockrell. 1,947,189; Feb. 13.
Control means for centrifugal extractors, Automatic gyration. N. R. Andrews and J. J. Neuman. 1,946,725; Feb. 13.
Control system. E. A. Hoxie. 1,947,204; Feb. 13.
Converter. D. D. Knowles. 1,947,093; Feb. 13.
Cooking appliance. J. E. Smith. 1,947,232; Feb. 13.
Cooky. M. D. MacKinnon. Des. 91,491; Feb. 13.
Cooler: *See*—
Car cooler.
Cooling and carbonating attachment for receptacles. F. A. Block. 1,946,962; Feb. 13.
Copper with cellulose acetate lacquer, Coating. E. R. Taylor and H. I. Davis. 1,946,647; Feb. 13.
Core cap, Extension. E. W. Bebie. 1,947,082; Feb. 13.
Corn shock snubber and lifter. L. O. Koch. 1,946,974; Feb. 13.
Corrugator. K. Sieg. 1,947,066; Feb. 13.
CO to methyl formate and methanol in liquid phase with alcoholate catalysts, Hydrogenation of. N. D. Scott. 1,946,918; Feb. 13.
Cotton condenser. T. Elliott. 1,946,784; Feb. 13.
Counter control, Automatic. O. J. Sundstrand. 1,946,823; Feb. 13.
Counter display case. F. J. Petzke. Des. 91,496; Feb. 13.
Counter fixture, Knockdown. M. T. Johnston. 1,946,583; Feb. 13.
Coupling: *See*—
Power transmission coupling. Trailer coupling.
Reversible impulse coupling.
Coupling. W. Z. Linders. 1,947,208; Feb. 13.
Coupling mechanism for nuts and washers. A. Stoll. 1,946,820; Feb. 13.
Course indicating and signaling apparatus. R. Piastino. 1,947,018; Feb. 13.
Cover: *See*—
Meter wire cover. Tire cover.
Seat cover.
Cream from a bottle, Device for removing a measured quantity of. J. D. Viruette. 1,946,651; Feb. 13.
Crushing and grinding machine. P. S. Knittel. 1,946,701; Feb. 13.
Curl clip. M. Widerman. 1,946,561; Feb. 13.
Current generating system. A. Flad. 1,946,678; Feb. 13.
Current long distance line, Alternating. R. Rudenberg. 1,947,061–2; Feb. 13.
Current responsive device, Electrical. I. W. Brogger. 1,946,894; Feb. 13.
Current transforming device, Direct. E. L. Barrett. 1,946,563; Feb. 13.
Currents in three-electrode ionic amplifiers, Reducing retroactive. S. Ballantine. 1,946,662; Feb. 13.
Curtain roller bracket. W. S. Hamm. 1,946,852; Feb. 13.
Cushioning device, Lateral motion. J. G. Blunt. 1,946,893; Feb. 13.
Cushioning mechanism. D. S. Barrows. 1,946,476; Feb. 13.
Cushioning mechanism. E. F. Mechlin. 1,947,301; Feb. 13.
Cut-out machine. B. W. Freeman. 1,947,387; Feb. 13.
Cutter: *See*—
Paper cutter. Seed potato cutter.
Rotary cutter.
Cutter and playback combination, Phonograph record. R. Head. 1,946,581; Feb. 13.
Cutting device. E. J. O'Neill. 1,947,355; Feb. 13.
Cutting machine. J. A. Smitmans. 1,946,919; Feb. 13.
Cylinder, Night latch. S. R. Fraim. 1,947 386; Feb. 13.
Damper control for wall registers or grilles. J. A. Germonprez. 1,946,788; Feb. 13.

Decorative material, Producing. R. Mattison. 1,947,271; Feb. 13.
Dental and surgical ejector. E. B. Fried. 1,947,389; Feb. 13.
Dentures. C. H. Wharton. 1,947,026; Feb. 13.
Dewatering device. G. W. Behnke. 1,946,663; Feb. 13.
Diaphragm. H. E. Schoenbut. 1,947,362; Feb. 13.
Dipper, Ice cream. O. E. Harris. Re19,084; Feb. 13.
Direction finder compensator. A. Leib. 1,946,703; Feb. 13.
Directional serial. W. V. Roberts. 1,947,021; Feb. 13.
Discharge for ball mills. E. L. Van Pelt. 1,946,511; Feb. 13.
Discharge pump, Multistage reversible variable. A. R. Kuzelewski. 1,947,050; Feb. 13.
Dish, Paper. H. Carew. 1,946,611; Feb. 13.
Dishwashing machine. A. G. Kohler. 1,946,536; Feb. 13.
Dispenser: *See*—
Liquid dispenser. Soap dispenser.
Dispensing device. R. C. Weiskopf. 1,946,559; Feb. 13.
Dispensing device and condiment holder. L. Spino. 1,947,364; Feb. 13.
Display cover. J. I. Russakov. 1,946,811; Feb. 13.
Display device. B. J. Goldsmith. 1,946,848; Feb. 13.
Display fixture. D. L. Nelke. 1,947,165; Feb. 13.
Display package and clamp therefor. P. E. Faust. Re19,075; Feb. 13.
Display stand. R. L. Flynn. 1,947,195; Feb. 13.
Display stand. E. C. Potter. 1,947,168; Feb. 13.
Door and operating means therefor. L. Grandgent. 1,946,970; Feb. 13.
Doorcheck. W. Clayton. 1,946,837; Feb. 13.
Door cushion and door catch, Combination. J. L. Ventura. 1,946,954; Feb. 13.
Door fixture for railway cars. A. E. Small. 1,946,549; Feb. 13.
Door fixture, Railway car. A. E. Small. 1,946,550; Feb. 13.
Door locking and operating means, Car. J. A. Shafer. 1,946,714; Feb. 13.
Door operating mechanism. A. Fasendin. 1,946,577; Feb. 13.
Door structure and operating means therefor. D. H. Morgan. 1,947,422; Feb. 13.
Draft control device. W. L. Butler and H. F. Hillard. 1,946,568; Feb. 13.
Draft gear. A. H. Oelkers. 1,947,056; Feb. 13.
Draft, Overcoming side. L. A. Roggensack. 1,946,501; Feb. 13.
Draft rigging. D. S. Barrows. 1,946,828; Feb. 13.
Draft rigging. F. G. Buckow. 1,947,316; Feb. 13.
Draft stabiliser, Automatic. O. W. Dressler. 1,947,251; Feb. 13.
Drier. F. L. Furbush. 1,947,338; Feb. 13.
Drier. L. R. Rasmussen. 1,946,638; Feb. 13.
Drink mixer. J. W. Cox. 1,946,840; Feb. 13.
Drink mixer, Automatically timed. H. L. Strongson. 1,946,771; Feb. 13.
Drive mechanism, Reciprocating. A. L. Ellis. 1,947,253; Feb. 13.
Driving mechanism. C. R. Waseige. 1,946,956; Feb. 13.
Driving mechanism, Flexible. F. W. Baker. 1,946,661; Feb. 13.
Duplicator. H. K. Lorentzen. Re19,082; Feb. 13.
Dust separator. T. C. Bléth. 1,946,665; Feb. 13.
Dye, Azo. H. E. Woodward. 1,947,027; Feb. 13.
Dyes and their preparation, Azo. H. E. Woodward. 1,947,028; Feb. 13.
Dyestuffs of the benzanthrone series and preparing the same, Vat. E. T. Howell. 1,947,047; Feb. 13.
Educational method. A. R. Gabriel. 1,946,683; Feb. 13.
Egg filtering apparatus. M. J. True. 1,946,772; Feb. 13.
Eggs, Apparatus for segregating. L. Loomis. 1,946,980; Feb. 13.
Electric condenser. S. Ruben. 1,947,112; Feb. 13.
Electric discharge device. A. E. Noble. 1,946,498; Feb. 13.
Electric discharge tube. G. Holst. 1,947,417; Feb. 13.
Electric fuse clamp. J. E. Carlson. 1,946,897; Feb. 13.
Electric heating unit. A. F. Schramm. 1,946,886; Feb. 13.
Electric incandescent lamp. G. Lessmann. 1,947,207; Feb. 13.
Electric interpreter. G. F. Daly. 1,946,900; Feb. 13.
Electric lamp. F. Born. 1,947,243; Feb. 13.
Electric motor. T. S. Bindschedler. 1,946,468; Feb. 13.
Electric plug, Universal. R. L. Chadwick. 1,947,331; Feb. 13.
Electric switch. J. Sachs. 1,947,275; Feb. 13.
Electrical apparatus. C. F. Hill and J. T. Goff. 1,947,085; Feb. 13.
Electrical apparatus. W. T. London. 1,946,631; Feb. 13.
Electrical apparatus with external heat radiator and making the same, Encased. J. J. Frank. 1,947,196; Feb. 13.
Electrical connecter. H. A. Douglas. 1,946,966; Feb. 13.
Electrical connecter. H. H. Wessel. 1,946,889; Feb. 13.
Electrical cooking apparatus. J. E. Smith. 1,947,426; Feb. 13.
Electrical distribution. H. Laub. 1,947,268; Feb. 13.
Electrical distribution. M. Stöbr. 1,947,233; Feb. 13.
Electrical distribution, System of. C. H. Willis. 1,947,238; Feb. 13.
Electrical integrating device. W. Geyger. 1,947,411; Feb. 13.
Electrical power distribution system. E. R. Evans. 1,947,193; Feb. 13.
Electrical regulating apparatus. G. W. Garman. 1,947,292 Feb. 13.
Electrical resistor, Compressible. G. O. Wilms. 1,946,774; Feb. 13.
Electrical signaling. M. L. Haselton. 1,946,581; Feb. 13.
Electrohydraulic operating mechanism. J. Bardin. 1,947,241; Feb. 13.
Electromagnet. J. B. Ford. 1,947,291; Feb. 13.
Electron discharge apparatus. M. A. Acheson. 1,947,179; Feb. 13.
Electroresponsive device. L. S. Walle. 1,947,236; Feb. 13.
Electrostatic machine. C. A. Nickle. 1,947,220; Feb. 13.
Elevator: *See*—
Portable elevator.
Elevator control system. E. P. Butusov. 1,946,777; Feb. 13.
Elevator signaling mechanism. R. A. Neuschotz and W. Leibfried. 1,947,097; Feb. 13.
Elevator system. F. V. McPealt. 1,946,982; Feb. 13.
Emblem or similar article. M. Biers. Des. 91,477; Feb. 13.
Embossing attachment for paper-making machines. A. E. Cofrin. 1,946,838; Feb. 13.
Engine: *See*—
Fluid pressure engine. Internal combustion engine.
Engine. A. J. Meyer. 1,947,215; Feb. 13.
Engine and an engine employing such method, Operating an internal combustion. N. O. Broderson. 1,947,375; Feb. 13.
Engine exhaust heater, Internal combustion. C. A. Schmidt and A. B. Ashton. 1,946,885; Feb. 13.
Engine valve gear. A. D. and L. R. Baker. 1,946,659; Feb. 13.
Equipment for supplying current impulses. M. Amann. 1,946,891; Feb. 13.
Esters of cellulose, Manufacture of mixed. C. J. Malm. 1,946,632; Feb. 13.
Etching machine. W. Guenst. 1,947,891; Feb. 13.
Ether package and packaging ether. J. Rosin. 1,946,502; Feb. 13.
Expansion joint. R. C. Walton and H. T. Gudgen. 1,947,072; Feb. 13.
Eye set and rubber doll's head utilizing the same. L. J. Grubman. 1,947,293; Feb. 13.
Eye set for dolls. J. H. Wilhelm. 1,947,288; Feb. 13.
Eye set for dolls, Movable. L. J. Grubman. 1,947,294; Feb. 13.
Eye set for dolls, Rolling. A. Konoff. 1,947,290; Feb. 13.
Fabric. C. E. Pink. 1,947,357; Feb. 13.
Fabric, Apparatus for treating. R. A. Hetser. 1,947,203; Feb. 13.
Fabric pattern cards, Process and apparatus for constructing. A. Pazziani and A. Chaiut. 1,946,878; Feb. 13.
Fabrics, Apparatus for cleaning. J. B. Sando. 1,947,174; Feb. 13.
Fabricating board. E. W. Hutchings. 1,947,395; Feb. 13.
Fastener: *See*—
Adjustable slide fastener. Basket cover fastener.
Fastener and the like, Window pane. A. A. Smidt. 1,946,716; Feb. 13.
Faucet. W. C. Buttner. 1,947,329; Feb. 13.
Faucet adapter. A. H. Brandon. 1,946,832; Feb. 13.
Feed mechanism, Hydraulic. W. Ferris. 1,946,902; Feb. 13.
Feeding device for stokers. W. D. Burton. 1,946,482; Feb. 13.
Felt, Producing absorbent. J. E. Plumstead. 1,947,106; Feb. 13.
Felt, Producing absorbent or resilient. J. E. Plumstead. 1,947,103; Feb. 13.
Felt, Producing absorbent or resilient. J. E. Plumstead. 1,947,105; Feb. 13.
Felt, Producing absorbent or resilient. J. E. Plumstead. 1,947,107; Feb. 13.
Felt, Producing absorbent and resilient. J. E. Plumstead. 1,947,108; Feb. 13.
Felting or felted paper product and making same, Fibrous. J. E. Plumstead. 1,947,104; Feb. 13.
Ferro-titanium alloy and making same. G. F. Comstock. 1,946,670; Feb. 13.
Ferrous sheet material, Finishing. A. H. Shonkwiler and D. M. Shanafelt. 1,946,766; Feb. 13.
Fertilizer. B. Ober and E. H. Wight. 1,947,138; Feb. 13.
Field signaling device. J. Straughan. 1,946,595; Feb. 13.
Fifth wheel. F. I. Rogers. 1,947,987; Feb. 13.
Filaments, Method and apparatus for making elastic. W. A. Gibbons, E. Hazell and A. W. Keen. 1,947,080; Feb. 13.
Film developing machine, Tension-operated motion-picture. V. C. de Ybarrondo. 1,946,841; Feb. 13.
Film reel. E. J. Schaub. 1,946,764; Feb. 13.
Film, Treating photographic. C. Holzwarth. 1,947,160; Feb. 13.
Film winding device for motion picture apparatus. O. Wittel. 1,946,604; Feb. 13.
Filter. K. D. Jones and W. R. Thomas. 1,946,744; Feb. 13.
Filter clay, Revivifying. N. E. Lemmon and A. B. Brown. 1,946,748; Feb. 13.
Filter system. R. D. Duncan, jr. 1,946,574; Feb. 13.
Filter system, Electrical. B. F. Miessner. 1,947,218; Feb. 13.
Fish in trawlers or marine carriers, Preservation of. W. G. Brettell. 1,947,327; Feb. 13.
Flashing, Interlocking metal. D. Levow and A. Ratner. 1,947,131; Feb. 13.
Floating stuffing box. B. G. Goble. 1,947,198; Feb. 13.

Floor and ceiling construction. C. R. Birdsey and H. W. Reel. 1,947,401; Feb. 13.
Floor cleaning device. A. E. Moorhead. 1,947,186; Feb. 13.
Floor construction. J. Kahn. 1,947,418; Feb. 13.
Floors, Apparatus for forming concrete. H. W. Roos. 1,947,360; Feb. 13.
Fluid feed proportioning method and apparatus, Automatic. R. M. and J. H. Banks, and W. W. Burritt. 1,946,474; Feb. 13.
Fluid pressure engine, Rotary. E. Crewdson. 1,947,334; Feb. 13.
Fluid pressure governing mechanism. C. C. Franck. 1,947,128; Feb. 13.
Fly casting basket reel. E. J. Sellers. 1,947,141; Feb. 13.
Fly-wheel starting motor. R. A. Webster and B. K. Smith. 1,946,513; Feb. 13.
Floor. R. W. Storm. 1,946,646; Feb. 13.
Folding chair. L. W. Emerson. 1,947,410; Feb. 13.
Foldable rack. L. J. Meyer. 1,946,633; Feb. 13.
Folding projection screen. W. A. Riddell. 1,946,639; Feb. 13.
Folding stand. J. Bucholz. 1,946,610; Feb. 13.
Food, Cereal. E. H. McKay. 1,946,803; Feb. 13.
Forceps, Phimosis hemostatic. S. U. and C. A. Sivon. 1,946,642; Feb. 13.
Form and manufacturing the same, Snap-out. O. P. Peters. 1,947,139; Feb. 13.
Frame: *See*—
Picture frame. Studio couch frame.
Side door frame. Vacuum frame.
Freewheeling device. F. W. Parker. 1,946,877; Feb. 13.
Friction draft gear. H. E. Van Dorn. 1,946,650; Feb. 13.
Fruit in preparation for market, Treatment of insect-infested. R. C. Skinner. 1,947,115; Feb. 13.
Fruit juices, Manufacture of unfermentable. S. C. Vandecaveye. 1,947,237; Feb. 13.
Fuel control device, Thermostatic. E. L. Fonseca. 1,946,679; Feb. 13.
Fuel-feeding apparatus for locomotives. H. Yoerg. 1,947,074; Feb. 13.
Fuel feeding device. E. A. Rockwell. 1,946,590; Feb. 13.
Fuel, Treatment of motor. P. I. Murrill. 1,947,219; Feb. 13.
Furfural, Producing. B. S. Groth and G. H. Blomqvist. 1,946,688; Feb. 13.
Furfural, Production of. G. H. Blomqvist and B. S. Groth. 1,946,667; Feb. 13.
Furnace: *See*—
Heating furnace.
Furniture construction. T. W. Ross. 1,946,917; Feb. 13.
Fuse. F. W. Bold. 1,946,668; Feb. 13.
Fuse clamp. J. E. Carlson. 1,946,898; Feb. 13.
Fuse construction, Low-capacity. E. V. Sundt. 1,946,553; Feb. 13.
Fuse-setting machine. A. Dabrasky. 1,946,487; Feb. 13.
Game. C. C. De Pew. 1,947,125; Feb. 13.
Game apparatus. T. J. Dixon. 1,946,616; Feb. 13.
Gap protective device, Adjustable. E. M. Skipper and R. L. McCoy. 1,946,815; Feb. 13.
Garment and life preserver, Safety bathing. K. Gunther. 1,947,005; Feb. 13.
Garment, Combination. R. H. Davis. 1,946,782; Feb. 13.
Gas analyzing process and apparatus. J. D. Morgan. 1,947,303; Feb. 13.
Gas and fluid separator. H. A. Ward. 1,947,366; Feb. 13.
Gas burner. W. G. Hagan. 1,946,791; Feb. 13.
Gas burner, Luminous flame. F. J. Hacker. 1,947,201; Feb. 13.
Gas consuming device. J. S. Blackmore. 1,946,729; Feb. 13.
Gas existing in dilute admixture with other gases, Recovering in concentrated form. F. W. de Jahn. 1,946,489; Feb. 13.
Gas meter bar. C. T. Bard. 1,947,371; Feb. 13.
Gas producer. A. L. Galusha. 1,947,339; Feb. 13.
Gaseous products, Refrigerating and separating. I. S. Gregory. 1,946,580; Feb. 13.
Gases, Apparatus for measuring. M. B. Zoll. 1,947,370; Feb. 13.
Gases, Polymerization of olefinic. W. B. Plummer. 1,947,306; Feb. 13.
Gasket. G. A. Barker. 1,946,475; Feb. 13.
Gate construction. J. F. Schronts. 1,947,176; Feb. 13.
Gauge: *See*—
Pressure recording gauge. Tank gauge.
Gear: *See*—
Draft gear. Friction draft gear.
Engine valve gear.
Gear for bodies of motor vehicles, Tipping. S. Burrows. 1,947,328; Feb. 13.
Gear shift control mechanism. J. L. Matthews. 1,946,750; Feb. 13.
Glass polishing tool. F. B. Waldron. 1,946,955; Feb. 13.
Glassware, Method of and apparatus for annealing. H. L. Eastman. 1,947,408; Feb. 13.
Goggles. C. E. Fraser. 1,947,137; Feb. 13.
Gold-saving apparatus. G. L. Covington. 1,947,035; Feb. 13.
Governor. F. A. Jimerson and F. V. Allen. 1,947,009; Feb. 13.
Grading machine. J. W. Smith. 1,947,116; Feb. 13.
Grain pick-up mechanism. A. J. Hartley. 1,946,692; Feb. 13.
Grid structure for rectifiers, Control. F. Hallopeau, W. Boveri, and A. Gaudenzi. 1,947,412; Feb. 13.
Grinding machine. H. F. Koestlin. 1,946,864; Feb. 13.
Grinding mill. F. P. Hess. 1,947,342; Feb. 13.
Grinding mill attachment for an electric utility device. P. J. Fitzgerald. 1,947,385; Feb. 13.
Ground terminal. L. A. Koch, jr. 1,946,862; Feb. 13.
Guard for valves. T. Grady and F. E. Wochley. 1,947,081; Feb. 13.
Gude, Drawer. W. C. Giesemann. 1,946,789; Feb. 13.
Gun, Adjustable and releasable pressure grease. J. S. and A. Johnson. 1,947,088; Feb. 13.
Gyroscopic instrument for aircraft. S. J. Zand. 1,946,657; Feb. 13.
Hair, Apparatus for waving. W. G. Shelton. 1,946,812; Feb. 13.
Hair waving apparatus. H. Gerken. 1,946,847; Feb. 13.
Hair waving apparatus. W. G. Shelton. 1,946,813; Feb. 13.
Handle: *See*—
Basket handle.
Handle for baskets, Wire. L. M. Hile. 1,946,794; Feb. 13.
Hanger: *See*—
Plumbing fixture hanger.
Harvester, Cotton. R. H. Hamme. 1,946,741; Feb. 13.
Harvester, Cotton. L. B. Neighbour and F. A. Thomann. 1,946,542; Feb. 13.
Harvester finger bar. O. F. Carlson. 1,947,123; Feb. 13.
Hay drying and the like. A. V. Sims. 1,946,814; Feb. 13.
Headlight system for automotive vehicles. H. H. Gordon. 1,947,043; Feb. 13.
Heat exchange apparatus. J. A. Potter. 1,947,109; Feb. 13.
Heat exchanger. E. M. O'Donnell. 1,947,098; Feb. 13.
Heat treating method. E. F. Northrup. 1,946,876; Feb. 13.
Heat treatment of light alloys. L. Pessel. 1,946,545; Feb. 13.
Heater: *See*—
Carburetor heater. Windshield heater.
Engine exhaust heater.
Heating furnace. I. Harter. 1,946,971; Feb. 13.
Heating process and apparatus. I. Langmuir. 1,947,267; Feb. 13.
Heating system, Steam. V. Eaton. 1,946,676; Feb. 13.
Heating unit, Steam and electric. E. A. Russell and D. W. Miller. 1,946,547; Feb. 13.
Heel cover trimming machine. C. G. Brostrom. 1,946,480; Feb. 13.
Heel lift and attaching means therefor, Reenforced. B. Gilowitz. 1,946,737; Feb. 13.
Heel seat of a shoe, Process and apparatus for forming the. A. J. Brauer and F. P. Wagner. 1,947,245; Feb. 13.
Heels, Making cored. H. L. Strongson. 1,946,770; Feb. 13.
Height of a gas holder while in service, Increasing the. F. Schürmann. 1,947,279; Feb. 13.
Helicopter. M. L. Darr. 1,946,614; Feb. 13.
Heterodyne receiving system. W. Runge. 1,947,229; Feb. 13.
Holder: *See*—
Collar and necktie holder. Soap holder.
Sash holder.
Holder. W. F. C. Brooker. 1,946,895; Feb. 13.
Holder for sorting machines, Brush. E. A. Ford. 1,946,905; Feb. 13.
Hollow articles, Method and apparatus for molding. J. F. Amos. 1,946,471; Feb. 13.
Hollow rod. W. Guntermann and K. Stoll. 1,947,392; Feb. 13.
Horn for insulators, Arcing. H. B. Vincent and H. P. Sleeman. 1,947,321; Feb. 13.
Horseshoe of rubber or similar material. E. Nygaard. 1,946,636; Feb. 13.
Hull extractor for cotton. F. E. Deems. 1,946,783; Feb. 13.
Humidifier. R. A. Brodhecker. 1,946,521; Feb. 13.
Humidifier. D. Handelan. 1,946,792; Feb. 13.
Humidity and temperature control. G. H. Fisher. 1,946,903; Feb. 13.
Hydraulic apparatus. D. H. Montgomery. Re19,077; Feb. 13.
Hydraulic brake. E. C. Skillman. 1,946,594; Feb. 13.
Hydraulic mechanism. F. A. Truesdell. 1,946,510; Feb. 13.
Hydraulic operator. P. S. Shield. 1,946,715; Feb. 13.
Hydrocarbons to produce carbon black, Treating. J. A. Guyer. 1,946,739; Feb. 13.
Ignition tester. F. Bartels. 1,946,518; Feb. 13.
Illuminator for automobiles. C. Rizzo. 1,946,916; Feb. 13.
Incubator, Baby. E. F. Hoffman. 1,947,007; Feb. 13.
Index mechanism, Table. J. F. Buhr. 1,946,835; Feb. 13.
Index point sorter, Combinational. E. E. Ford. 1,946,904; Feb. 13.
Indexing mechanism for automatic drilling machines and the like. R. M. Lovejoy. 1,947,348; Feb. 13.
Indicator: *See*—
Length measuring indicator. Vibration indicator.
Indicator for card tables. W. Smith. 1,947,067; Feb. 13.
Insect trap. W. Trammell. 1,946,509; Feb. 13.
Insecticide. W. K. Price. 1,947,169; Feb. 13.
Insert for waffle irons. C. A. Clauss. 1,947,124; Feb. 13.

Insole and making shoes therewith. W. H. Bain. 1,947,031; Feb. 13.
Inspection apparatus. W. J. Ward, C. E. Bauerle and F. H. Dalrymple. 1,947,142; Feb. 13.
Insulating material. L. McCulloch. 1,947,096; Feb. 13.
Interference, Preventing. C. S. Franklin and A. W. Whistlecroft. 1,946,680; Feb. 13.
Interlocking wheel. F. C. Wilson. 1,947,178; Feb. 13.
Internal combustion engine. R. N. Du Bois. 1,947,252; Feb. 13.
Internal combustion engine. H. C. Edwards. 1,947,192; Feb. 13.
Internal combustion engine. A. J. Meyer. 1,947,213; Feb. 13.
Internal combustion engine. A. M. Niven. 1,947,221–2; Feb. 13.
Internal combustion engine. J. P. Stathas. 1,946,718; Feb. 13.
Jack: *See*—
Automobile jack.
Jack for two lasts, Combination. A. R. Kosma. 1,947,975; Feb. 13.
Jig, Quick-clamping box type. F. W. Kuppersmith. 1,946,537; Feb. 13.
Joint: *See*—
Expansion joint. Universal joint.
Key ejecting means for cylinder locks. F. E. Thompson. 1,946,722; Feb. 13.
Knitting-covered bodies and making same, Cord-shaped. F. Meiwald. 1,947,302; Feb. 13.
Knitting machine. W. L. Smith, jr. 1,946,767; Feb. 13.
Lace. S. H. Page. Des. 91,493–4; Feb. 13.
Ladder. R. Laborda. 1,946,747; Feb. 13.
Laminated product. R. P. Courtney. 1,946,932; Feb. 13.
Lamp: *See*—
Electric incandescent lamp. Miner's lamp.
Electric lamp. Reading lamp.
Lamp for automotive cabs, Light projecting. F. W. Blanchard. 1,947,377; Feb. 13.
Lamp for photographic sound records, Recording and reproducing. F. H. Owens. 1,946,587; Feb. 13.
Lamp shade support, Adjustable. M. J. Auerbach. 1,946,959; Feb. 13.
Lathe. L. C. Cole. 1,946,839; Feb. 13.
Lathe attachment. J. Y. Blazek. 1,947,378; Feb. 13.
Lathe center. W. W. Gairing. 1,946,684; Feb. 13.
Lead carbonate, Making. M. F. Perkins. 1,946,709; Feb. 13.
Leaks in threaded joints, Sealing. E. C. Furman and E. F. Heard. 1,946,619; Feb. 13.
Leather brace. L. W. Shields. 1,947,313; Feb. 13.
Leg construction for furniture. W. S. Hallawell. 1,946,620; Feb. 13.
Length measuring indicator. L. A. Umansky. 1,947,399; Feb. 13.
Lever. O. U. Zerk. 1,947,147; Feb. 13.
Lid and retaining means therefor. B. H. Aupke. 1,947,149; Feb. 13.
Lift for automobiles and the like, Hydraulic. I. V. Hott and W. E. Webster. 1,946,937; Feb. 13.
Light: *See*—
Safety exit light.
Light construction, Super glass vault. G. H. Lenke. 1,946,977; Feb. 13.
Lighter, Flaming. D. A. Richards. 1,946,719; Feb. 13.
Lighting fixture. N. T. Thomas. 1,947,118; Feb. 13.
Lighting system for automotive vehicles. H. A. Douglas. 1,946,965; Feb. 13.
Lightning arrester. R. V. Beckett and C. L. Jones. 1,947,076; Feb. 13.
Lime and manure distributor. A. W. Cargill. 1,947,379; Feb. 13.
Linerless mold. A. L. Gagné and J. A. Snyder. 1,947,390; Feb. 13.
Lining, Grave. M. Lange. 1,946,976; Feb. 13.
Link for chains, Connecting. G. G. Mize. 1,947,421; Feb. 13.
Liquid dispenser. P. W. Du Par. Des. 91,479; Feb. 13.
Liquid dispenser. W. M. Sample and O. O. Langdon. 1,947,310; Feb. 13.
Liquid dispensing apparatus. K. E. Bemis. 1,946,519; Feb. 13.
Liquid flow regulating valve. M. De Lin. 1,946,734; Feb. 13.
Liquids in cisterns and the like, Retention of. N. A. Morro and C. S. Scott. 1,947,304; Feb. 13.
Lister cultivator attachment. W. S. Graham and G. J. Olson. 1,946,686; Feb. 13.
Lister planter attachment for tractors. W. S. Graham. 1,946,685; Feb. 13.
Locking device. F. D. Hardesty. Re19,073; Feb. 13.
Locking mechanism for doors. D. F. Smith and W. F. Purcell. 1,946,551; Feb. 13.
Locomotive boiler. H. M. Pflager and A. R. Ayers. 1,947,225; Feb. 13.
Locomotive boiler throat sheet construction. G. M. Wilson. 1,946,996; Feb. 13.
Loom attachment. P. A. Burnett, A. A. Fallis, and D. S. Pritchett. 1,946,730; Feb. 13.
Lubricating arrangement for magneto electric ignition apparatus. F. Allendorff. 1,947,400; Feb. 13.
Lubrication. J. Bijur. 1,946,478; Feb. 13.
Lubrication, Clutch control. T. R. Thomas. 1,946,507; Feb. 13.
Lubricator. J. De Mooy. 1,947,430; Feb. 13.
Luggage carrier. J. Ritter, jr., and W. C. Chesnut. 1,947,227; Feb. 13.
Luggage carrier case. J. Ritter, jr. 1,946,761–2; Feb. 13.
Lumber that is not attacked by molds, Producing synthetic. O. R. Sweeney. 1,946,952–3; Feb. 13.
Luminescent tube. L. L. Beck and A. E. Noble. 1,946,477; Feb. 13.
Machine for and method of producing joints or traffic lines in concrete. J. N. Heltsel. 1,946,972; Feb. 13.
Machine for curing concrete. W. N. Stevenson. 1,946,819; Feb. 13.
Machine for dressing emery hobs. E. E. Tougas and M. T. Schumb. 1,946,888; Feb. 13.
Machine for making building blocks. F. X. Muenzer. 1,946,708; Feb. 13.
Machine for making paper bags. R. W. Jaite. 1,947,396; Feb. 13.
Machine for making printers' leads and rules. G. H. M. Dahl. 1,946,488; Feb. 13.
Machine for pressing soles upon shoes and pad therefor. S. J. Finn. 1,946,490; Feb. 13.
Machine for sewing mattress covers. L. E. Pittoni. 1,947,058; Feb. 13.
Machine for simultaneously forming independent stitched seams. K. Maier. 1,947,299; Feb. 13.
Machine for the wet treatment of fabrics. H. Karrer. 1,946,627; Feb. 13.
Machine for truing brake drums. G. D. Sundstrand. 1,947,234; Feb. 13.
Machine for turning the edges of flexible material. M. M. Balsam. 1,946,999; Feb. 13.
Machine head, Extruding. O. F. Homeier. 1,947,202; Feb. 13.
Machine to pierce a plurality of holes in a wheel hub shell for short spokes. H. Tormyn and F. F. Wiethoff. 1,946,991; Feb. 13.
Machine to pierce twenty holes in a wheel hub shell for long spokes. H. Tormyn and F. F. Wiethoff. 1,946,992; Feb. 13.
Magazine for motion picture film. A. W. Tondreau. 1,946,600; Feb. 13.
Magazine, Motion picture film. O. Wittel. 1,946,605; Feb. 13.
Magnet and making it, Permanent. W. E. Ruder. 1,947,274; Feb. 13.
Magnetic material and making the same. H. L. Cobb. 1,946,964; Feb. 13.
Magneto-electric machine. J. K. Leibing. 1,947,269; Feb. 13.
Manipulating device. A. H. Theis. 1,947,282; Feb. 13.
Manure spreader. L. B. Neighbour. 1,946,807; Feb. 13.
Marking mechanism for grading machines. J. W. Johnston. 1,946,583; Feb. 13.
Mascara case. I. S. Beck. 1,946,727; Feb. 13.
Massage device. W. S. Glennan. 1,947,042; Feb. 13.
Match package. R. S. Pullen. 1,947,111; Feb. 13.
Mattress tufting machine. D. Micon. 1,947,217; Feb. 13.
Mattresses, Apparatus for covering. D. Micon. 1,947,216; Feb. 13.
Measuring valve. W. S. Pritchard. 1,946,546; Feb. 13.
Mechanism operator. R. Stover. 1,946,821; Feb. 13.
Merchandise display stand. J. J. Conway. 1,946,779; Feb. 13.
Mercury, Vaporizing. J. J. Grebe. 1,946,851; Feb. 13.
Message conveyer. R. Mason. 1,946,70; Feb. 13.
Metal sheets, Galvanising. R. O. Griffis. 1,946,936; Feb. 13.
Metal working and product resulting therefrom, Method and apparatus for. J. Schmeller, sr. 1,947,114; Feb. 13.
Meter: *See*—
Registering fluid meter.
Meter wire cover. O. E. Juvinall. 1,946,796; Feb. 13.
Mill: *See*—
Grinding mill.
Mine-car brake. H. W. Sanford. 1,947,361; Feb. 13.
Miner's lamp. O. Schneider. 1,947,022; Feb. 13.
Mining machine. E. F. Muller. 1,946,634; Feb. 13.
Mixer: *See*—
Drink mixer.
Mold: *See*—
Linerless mold.
Mop. S. Schulman. 1,947,312; Feb. 13.
Mop squeezing device. E. Pavek. 1,946,637; Feb. 13.
Motor: *See*—
Electric motor. One pole motor.
Fly-wheel starting motor. Synchronous motor.
Motor control system. A. A. Ponsonby. 1,947,059; Feb. 13.
Motor control, System of. C. E. Kilbourne. 1,947,266; Feb. 13.
Motor control, System of. C. E. Kilbourne and T. Drier. 1,947,265; Feb. 13.
Motor controller. R. B. Hunter. 1,947,263; Feb. 13.
Motor thermal relay. H. E. Cobb. 1,947,078; Feb. 13.
Mounting. T. Lord. 1,947,182; Feb. 13.
Mounting, Door. O. L. Dautrick, G. H. Hufferd, J. E. Casse, and C. U. Stephens. 1,946,678; Feb. 13.
Mower. W. J. Coultas and N. D. Colvin. 1,946,541; Feb. 13.
Mower. T. W. Paul. 1,946,543–4; Feb. 13.
Mower, Power driven lawn. H. J. Stegeman and S. D. Locke. 1,947,117; Feb. 13.
Muffler for internal combustion engines. S. S. Hanson. 1,946,908; Feb. 13.

Multi-ply bag. B. B. Weaver. 1,946,995; Feb. 13.
Music stand. J. R. Spica. 1,946,644; Feb. 13.
Music system, Electrical. R. H. Ranger. 1,947,020; Feb. 13.
Navigational apparatus. T. R. Rhea. 1,947,434; Feb. 13.
Necktie press. J. P. Ernster. 1,946,844; Feb. 13.
Network distribution system, Medium voltage. J. S. Parsons. 1,947,100; Feb. 13.
Nitrocellulose coating composition containing an acid body. T. F. Bradley. 1,946,479; Feb. 13.
Nonskid mechanism for vehicles. R. G. Reed. 1,946,712; Feb. 13.
Nozzle and spraying device, Combined. M. E. Johnson. 1,946,696; Feb. 13.
Nut and making the same. J. A. Fitch and C. D. Watson. 1,946,618; Feb. 13.
Oil content of soya, Reducing. L. W. Haas and H. O. Renner. 1,947,200; Feb. 13.
Oil into gasoline, Apparatus for introducing lubricating. A. I. Babendreer and W. F. Dale. 1,946,473; Feb. 13.
Oils, Apparatus for cracking hydrocarbon. R. C. Powell. 1,947,110; Feb. 13.
Oils, Conversion of hydrocarbon. L. C. Huff. 1,946,938; Feb. 13.
Oils, Cracking hydrocarbon. A. W. Jurrissen, A. B. Cox, and A. M. Wood. 1,946,939; Feb. 13.
Oils, Dewaxing petroleum. E. W. Reid. 1,947,359; Feb. 13.
Oils from the distillation of coal, Obtaining valuable light. C. Still. 1,946,721; Feb. 13.
Oilstone sharpening apparatus. F. E. Gallagher. 1,946,968; Feb. 13.
1-Iodo-8-hydroxy-naphthalene sulphonic acids, Manufacture of. A. Still, A. Binkert, and W. Kussmaul. 1,946,950; Feb. 13.
One pole motor. W. J. Morrill. 1,947,163; Feb. 13.
Open-ended container. F. D. Jonas. 1,946,795; Feb. 13.
Opium, Producing preparations of. P. Casparis and K. Siegfried. 1,947,330; Feb. 13.
Optical mensuration instrument, Clinical. A. Ames, jr. 1,946,925; Feb. 13.
Optical system and focusing means therefor. F. H. Owens. 1,946,588; Feb. 13.
Organic derivative of cellulose fabric, Treatment of. C. Dreyfus. 1,947,002; Feb. 13.
Organic substances, Apparatus for gassifying combustible. F. I. E. Stenfors. 1,946,817; Feb. 13.
Ornament or similar article, Automobile radiator. B. E. Lemm. Des. 91,489; Feb. 13.
Ornamental sheet metal structure and producing the same. D. E. Hunter. 1,946,694; Feb. 13.
Oscillation generation. J. L. Finch and J. W. Conklin. 1,947,003; Feb. 13.
Oven, Baking. I. Elliott. 1,946,843; Feb. 13.
Oven, Drying. C. C. Wilcox. 1,946,923; Feb. 13.
Pack holding mechanism. F. C. Schueler. 1,946,988; Feb. 13.
Package. R. S. Peirce. 1,946,808; Feb. 13.
Package of textile material and making the same. A. M. Cox. 1,947,406; Feb. 13.
Package wrapping machine. A. E. Johnson and J. F. Lindsey. 1,946,697; Feb. 13.
Packages, Making hermetically sealed. F. R. Clark. 1,946,569; Feb. 13.
Packing. F. H. Field. 1,946,527–8; Feb. 13.
Packing. C. H. Sorensen. 1,946,552; Feb. 13.
Packing, displaying, and dispensing device. L. A. Macklanburg. 1,947,351; Feb. 13.
Paper and the like, Shredding. W. J. Winston. 1,947,328; Feb. 13.
Paper cutter. D. Castain. 1,946,731; Feb. 13.
Paper cutting mechanism. T. H. Hallwood. 1,947,340; Feb. 13.
Paper manufacturing machine. E. T. Jaeger. 1,947,205; Feb. 13.
Paper or the like, Apparatus for coating. R. S. Bracewell. 1,946,831; Feb. 13.
Paper package, Sheet. H. S. Haggerty. 1,946,689; Feb. 13.
Pavement, Sand rock asphalt. G. H. Alvey. 1,946,517; Feb. 13.
Paver, Automatic tandem drum. E. H. Lichtenberg. 1,946,944; Feb. 13.
Pedestal base operating table. J. S. Clachko. 1,946,899; Feb. 13.
Pedestal for motion picture machines, Reel and magazine supporting. A. Dina. 1,946,674; Feb. 13
Pen, Soluble ink fountain. R. B. Kingman. 1,947,092; Feb. 13.
Perforating machine. H. T. Nicholas. 1,946,874; Feb. 13.
Periscope, Scale load indicating. L. W. Fuller. 1,947,155; Feb. 13.
Petroleum hydrocarbons, Converting. A. G. Davis. 1,947,001; Feb. 13.
Phonograph hood and supporting base therefor, Combined. L. S. Briggs. Des. 91,478; Feb. 13.
Phonograph record. J. E. Symonds. 1,946,596; Feb. 13.
Phonograph record and manufacture. J. E. Symonds. 1,946,597; Feb. 13.
Phonograph reproducer. L. A. Morrison. 1,947,164; Feb. 13.
Photographic printing apparatus. R. N. Carter. 1,946,612; Feb. 13.
Photographic printing apparatus. R. S. Hopkins. 1,946,621; Feb. 13.
Picture apparatus, Motion. N. A. Nicholson. 1,946,875; Feb. 13.
Picture frame. J. Manoil. 1,946,705; Feb. 13.
Pictures, Device for taking and projecting motion. P. W. Do st. 1,946,934; Feb. 13.
Pictures, Process of and apparatus for producing stereoscopic motion. C. F. Méndez. 1,947,161; Feb. 13.
Pilot for reamers. F. Judge. 1,946,584; Feb. 13.
Pin: *See*—
Spindle pin.
Pipe welding. C. G. Jones. 1,947,089; Feb. 13.
Piston. C. C. Hanch. 1,946,530; Feb. 13.
Piston. H. H. Timian. 1,947,177; Feb. 13.
Piston pin lubrication system. F. G. Shoemaker. 1,947,023; Feb. 13.
Piston ring for internal combustion engines. A. P. Fall. 1,946,677; Feb. 13.
Piston ring joint miller. J. E. Porter. 1,946,881; Feb. 13.
Plastic material upon a wooden pile, Appa.atus for forming a covering or sleeve of. P. D. Hay. 1,947,413; Feb. 13.
Plate, Notch. P. J. Stearns. 1,946,720; Feb. 13.
Player for stringed instruments, Mechanical. E. W. Bach. 1,946,827; Feb. 13.
Plug: *See*—
Electric plug. Spark plug.
Plug deflector, Return bend. L. A. Mekler. 1,946,945; Feb. 13.
Plumbing fixture. S. W. Davison and M. J. Thompson. 1,947,250; Feb. 13.
Plumbing fixture hanger, Movable and adjustable. O. Witzleb. 1,947,369; Feb. 13.
Polishing material, Floor. A. E. Moorhead. 1,947,135; Feb. 13.
Portable elevator, Self loading. J. M. Johnson and H. L. Sinclair. 1,947,264; Feb. 13.
Powder puffs, Apparatus for the manufacture of. R. Bihler. 1,947,285; Feb. 13.
Power directional system. E. R. Evans. 1,947,289; Feb. 13.
Power loading device. J. C. Costello. 1,946,780 Feb. 13.
Power plant. R. C. Hoffman. 1,947,045; Feb. 13.
Power pressing machine. E. Davis and L. C. Klenzle. 1,947,191; Feb. 13.
Power transmission coupling. A. S. Lack. 1,947,052; Feb. 13.
Power transmitting device. H. A. Greenwald. Re19,080; Feb. 13.
Power unit. E. Nielsen. 1,946,540; Feb. 13.
Preheating chamber. E. W. Thiele. 1,947,319; Feb. 13.
Pre-heating device for hydrocarbon burners. W. B. Engh. 1,947,194; Feb. 13.
Press: *See*—
Necktie press. Vulcanizing press.
Pressure fluid operated tool. E. H. Shaff. 1,946,548; Feb. 13.
Pressure recording gauge. I. L. Dunn, H. F. Wright, and H. S. Crooks. 1,946,575–6; Feb. 13.
Printing mechanism for tabulators. A. E. Gray. 1,947,259; Feb. 13.
Printing plate for collapsible tubes. W. Prussing. 1,947,170; Feb. 13.
Propeller. J. M. Wilson. 1,947,073; Feb. 13.
Propeller, Device for indicating direction of rotation of. A. Christen. 1,947,332; Feb. 13.
Propeller with auxiliary blades applicable to driving aircraft. E. A. Briner. 1,946,571; Feb. 13.
Protective arrangement for electric power lines. R. O. Kapp and C. G. Carrothers. 1,946,859; Feb. 13.
Puff-iron. I. Chapatte. 1,946,929; Feb. 13.
Pump: *See*—
Discharge pump. Vacuum pump.
Pump. O. W. Andersen. 1,947,148; Feb. 13.
Pump and motor control mechanism, Gear. R. A. Schafer. 1,946,503; Feb. 13.
Punch board machine. J. P. Frey. 1,946,736; Feb. 13.
Punching machine, Automatic. M. Maul. 1,946,913; Feb. 13.
Quarts oscillators, Arrangement for. W. Kummerer. 1,946,698; Feb. 13.
Rack: *See*—
Clothes drying rack. Tray rack.
Foldable rack.
Rack. O. Quisenberry. 1,946,711; Feb. 13.
Rack for refrigerators, ovens, and the like. C. T. Hatch. 1,946,532; Feb. 13.
Radiator. R. Strothmann. 1,946,990; Feb. 13.
Radiator, Humidifying. N. Bartlett. 1,946,564; Feb. 13.
Radiocabinet. R. Himmel. Des. 91,486; Feb. 13.
Radiocabinet. J. L. Raffetto. Des. 91,497; Feb. 13.
Radio-compass, Direct-reading. R. Braillard and J. Marique. 1,947,326; Feb. 13.
Radioreceiver, Superheterodyne. C. G. and L. G. Kemp. 1,946,746; Feb. 13.
Radio receiving system. A. H. Hotopp, jr. 1,946,582; Feb. 13.
Radio tuning apparatus, Automatic. R. B. Bryant. 1,947,186; Feb. 13.
Raggle block. J. P. Stagg. 1,946,949; Feb. 13.
Rate mechanism. R. C. Coupland. 1,946,484–5; Feb. 13.
Ratio between the linear function of two temperatures, Apparatus for indicating the. R. Lanquetin. 1,946,702; Feb. 13.
Razor, Safety. C. C. Bradbury. 1,947,244; Feb. 13.
Razor, Safety. G. Taylor. 1,947,318; Feb. 13.

Reading lamp. F. M. Machold. 1,946,866; Feb. 13.
Recorder: *See*—
Time recorder.
Rectifier control system. H. Keller. 1,946,973; Feb. 13.
Rectifier, Dry. F. Bauer and E. W. Kafka. 1,947,075; Feb. 13.
Rectifier for motion picture projectors. R. D. Amsden. 1,947,240; Feb. 13.
Rectifiers, Protection of controlled. M. Schenkel. 1,947,063; Feb. 13.
Reel: *See*—
Film reel. Fly casting basket reel.
Reel for telephone cords. A. J. Cline. 1,946,778; Feb. 13.
Reflector. N. Lang. 1,947,344; Feb. 13.
Reflector, Dimmer double. E. Myers. 1,946,755; Feb. 13.
Reflector, Lighting. G. Arras. 1,946,465; Feb. 13.
Refrigerating apparatus. H. W. Kleist. 1,946,496; Feb. 13.
Refrigerating rooms and buildings. F. Ophuls. 1,947,223; Feb. 13.
Refrigerating systems, Apparatus for purging. E. B. McCabe. 1,947,095; Feb. 13.
Refrigeration mechanism. A. B. Haslacher. 1,947,082; Feb. 13.
Refrigeration, Method and apparatus of. R. K. Horner. 1,946,854; Feb. 13.
Refrigeration process and adsorbents therefor. G. C. Connolly and E. B. Miller. 1,947,381; Feb. 13.
Refrigerator. J. M. and W. G. Schilling. 1,946,593; Feb. 13.
Regeneration control for vacuum tube circuits, Automatic. D. W. Norwood. 1,946,499; Feb. 13.
Registering fluid meter. H. G. Weymouth. 1,947,367; Feb. 13.
Regulating system. G. W. Garman. 1,947,197; Feb. 13.
Regulator: *See*—
Boiler feed water regulator.
Relief images, Making wash-off. M. W. Seymour. 1,946,640; Feb. 13.
Remedy for combating diseases of plants and in a process for applying same. G. Truffaut and I. Pastak. 1,947,320; Feb. 13.
Renovating machine for building facades. M. Bitterbaum. 1947,286; Feb. 13.
Reservoir ink well. J. C. Gilbert. 1,946,969; Feb. 13.
Resetting apparatus for dispensing indicators, Automatic. J. M. Dayton. 1,947,383; Feb. 13.
Residue of hydrocarbon oil distillation, Treating. C. J. Pratt. 1,946,947; Feb. 13.
Resins and making the same, Diene. A. Heck. 1,947,416; Feb. 13.
Reversible impulse coupling. L. S. Dunham and A. F. Robertson. 1,947,126; Feb. 13.
Rheostat and the like. N. C. Schellenger. 1,947,437; Feb. 13.
Ribbon mechanism, Double. T. M. Butler. 1,947,034; Feb. 13.
Ribbon mechanism, Double. E. Racz. 1,947,019; Feb. 13.
Ring, Making a finger. T. E. Foster. 1,947,254; Feb. 13.
Rock-crushing machine. W. H. Sallwasser. 1,946,763; Feb. 13.
Rod: *See*—
Connecting rod. Hollow rod.
Roll polishing mechanism. H. W. Bradley and P. H. Long. 1,946,927; Feb. 13.
Roller for paper making machines, Riding. B. A. Malkin and F. McHenry. 1,946,801; Feb. 13.
Roofing. G. W. Mills, jr. 1,947,134; Feb. 13.
Rotary crown ventilator. A. S. Weinstein. 1,946,724; Feb. 13.
Rotary cutter. F. P. Miller. 1,946,869; Feb. 13.
Rotary valve. H. E. McCrery. 1,947,210; Feb. 13.
Rubber filaments, Apparatus for making. A. W. Keen. 1,947,090; Feb. 13.
Rubber vulcanization. G. L. Magoun. 1,946,704; Feb. 13.
Rugs, Process and apparatus for making. C. A. Hollister. 1,946,853; Feb. 13.
Safety device. R. V. Lee. 1,946,940; Feb. 13.
Safety device for vehicle doors. C. E. Ellis, jr. 1,947,079; Feb. 13.
Safety exit light. F. E. Beidler. 1,946,570; Feb. 13.
Salts, Process and apparatus for the preparation of metallic. W. P. Heineken and M. L. Freed. 1,947,006; Feb. 13.
Sanitary can, Key opening. P. H. Lange. 1,947,012; Feb. 13.
Sanitary napkin. V. M. Jurgensen. 1,946,626; Feb. 13.
Sash balance. J. F. Peterson. 1,946,880; Feb. 13.
Sash holder. R. Brown. 1,946,833; Feb. 13.
Sash, Window. S. Viragh. 1,946,601; Feb. 13.
Saw, Flying. J. M. Barton. 1,946,926; Feb. 13.
Saw, Portable metal cutting. E. A. Everett. 1,946,785; Feb. 13.
Scaffold support or snowhook. H. C. Parker. 1,946,757; Feb. 13.
Scale, Weighing. J. R. Zwickl. 1,946,775; Feb. 13.
Scissors, Self-adjusting. J. P. Richardson. 1,947,308; Feb. 13.
Scraper for automobile running boards. A. and E. F. Glauber. 1,946,578; Feb. 13.
Screen: *See*—
Folding projection screen.
Screens, Device for installing window. E. W. Pendery. 1,947,102; Feb. 13.
Screw rolling die and method. L. A. Frayer. 1,946,735; Feb. 13.
Scrubbing, waxing and steel wooling machine, Electric. B. I. Richmond. 1,947,435; Feb. 13.
Seal for automobile license plates. M. R. Phinney. 1,946,946; Feb. 13.
Seal, Shaft. L. W. Riggs. 1,947,172; Feb. 13.
Sealing device. A. L. McHugh. 1,947,017; Feb. 13.
Sealing ring for use in gas holders of disk type. G. von Hanffstengel. 1,946,512; Feb. 13.
Seat cover. E. Wittcoff. 1,946,825; Feb. 13.
Securing means for weather strips. L. A. Macklanburg. 1,947,350; Feb. 13.
Seed potato cutter. R. W. Taylor. 1,946,648; Feb. 13.
Self-cleaning device for adjustment screws. L. L. Chong. 1,946,931; Feb. 13.
Separator: *See*—
Centrifugal separator. Gas and fluid separator.
Dust separator.
Setting tool. J. H. Howard. 1,947,262; Feb. 13.
Sewing machine. J. G. Russell. 1,947,436; Feb. 13.
Sewing machines, Feeding mechanism for. N. V. Christensen and F. F. Zeier. 1,947,380; Feb. 13.
Sewing machines, Rotary take-up for. A. B. Clayton. 1,947,333; Feb. 13.
Sewing mechanism for quilts and the like. W. H. May. 1,946,868; Feb. 13.
Shackle mechanism. O. U. Zerk. 1,947,146; Feb. 13.
Shaking mechanism for Fourdrinier machines. F. M. Sanger. 1,946,592; Feb. 13.
Sharpener, Lawn mower. A. Licht. 1,947,298; Feb. 13.
Sharpener, Shears. C. C. Isaacs. 1,946,625; Feb. 13.
Shearing device for looms and blades therefor. M. B. Behrman. 1,947,181; Feb. 13.
Sheet holding frame for photographic use. G. S. Rowell. 1,946,810; Feb. 13.
Sheet material, Method of and apparatus for conveying. E. C. McFarlane. 1,947,211; Feb. 13.
Shock absorber, Two-way. T. H. Eickhoff, F. D. Sanborn, jr., and A. E. Brissner. 1,946,525; Feb. 13.
Shoe. F. W. Ellington. Des. 91,480–3; Feb. 13.
Shoe and making same. C. H. Daniels. 1,947,288; Feb. 13.
Shoe and sole positioning mechanism. S. J. Finn. 1,946,491; Feb. 13.
Shoe, Making a molded rubber. R. E. Riley. 1,947,173; Feb. 13.
Shoe ornamenting mechanism. B. W. Freeman. 1,946,935; Feb. 13.
Shoe, Ventilated. H. D. Reed and H. H. Kent. 1,946,986; Feb. 13.
Shoes, Liner plate for. T. Saito. 1,946,591; Feb. 13.
Shoes, Making. A. J. Brauer and F. P. Wagner. 1,947,246; Feb. 13.
Shower head. E. S. Cornell, jr. 1,947,407; Feb. 13.
Shut-off, Automatic gas. C. T. Bard. 1,947,372; Feb. 13.
Shutter shaft support. A. Kindelmann. 1,946,700; Feb. 13.
Side door frame. M. H. Martin. 1,946,586; Feb. 13.
Sign. R. E. Barclay. 1,946,726; Feb. 13.
Sign construction. H. T. Hallowell. 1,947,341; Feb. 13.
Signal repeating system. H. R. Hayden. 1,947,084; Feb. 13.
Signal system for motor vehicles. K. D. and H. W. Preston. 1,946,759; Feb. 13.
Signaling system. C. S. Demarest. 1,946,615; Feb. 13.
Silver, Tarnish resisting. B. Bart. 1,947,180; Feb. 13.
Sizing or stiffening machine. W. J. Ollinger and C. Niedbammer. 1,947,057; Feb. 13.
Slack adjuster. P. B. Camp. 1,947,402; Feb. 13.
Slack adjuster. C. J. Nash. 1,947,305; Feb. 13.
Slack adjuster, Automatic. P. B. Camp. 1,947,405; Feb. 13.
Slack adjuster for railway brakes. P. B. Camp. 1,947,403; Feb. 13.
Sludge remover. D. W. Townsend and J. Brower. 1,947,429; Feb. 13.
Snap fastener stud, Separable. G. Johnson. 1,947,130; Feb. 13.
Soap dispenser. N. S. Hillyard. 1,947,086; Feb. 13.
Soap holder. R. S. Rutherford. 1,946,884; Feb. 13.
Soap, Shaving. V. Scheffer. 1,946,765; Feb. 13.
Socket, Electric lamp. M. L. Featherston. 1,946,786; Feb. 13.
Soda and producing same. Friable caustic. J. W. Koenders. 1,946,863; Feb. 13.
Solarium, Portable. P. L. Braunworth. 1,946,567; Feb. 13.
Soluble compositions and their use in dyeing and printing, Manufacture of. M. Mendoza, A. G. Murray, and H. B. Briggs. 1,947,433; Feb. 13.
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Sound records, Method and apparatus for recording and reproducing photographic. F. H. Owens. 1,946,589; Feb. 13.
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Spark plug. W. W. Pillman. 1,946,809; Feb. 13.
Speech amplitude control. R. C. Mathes. 1,947,209; Feb. 13.
Spindle and ring beams of spinning, twisting and the like machines, Device for lifting and lowering the. J. J. Keyser. 1,946,699; Feb. 13.
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Spinner. A. Sisco. 1,946,641; Feb. 13.
Spout or chute, Extension. W. R. Rhine. 1,946,760; Feb. 13.
Spray dried products and apparatus therefor, Conditioning. W. S. Bowen. 1,946,566; Feb. 13.
Spring clutch. W. C. Starkey. 1,946,816; Feb. 13.
Spring coiling device, Helical. W. H. Moon. 1,946,870; Feb. 13.
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Steering mechanism for individually sprung wheels. A. F. Masury. 1,946,749; Feb. 13.
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Stopcock. B. J. Johnston. 1,946,745; Feb. 13.
Stop for machine belt type, Automatic. H. G. Kellogg. 1,946,534; Feb. 13.
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Sweeper, Floor aligning. W. Leathers. 1,946,585; Feb. 13.
Switch: *See*—
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Switching member for electric switches. J. Sachs. 1,947,277; Feb. 13.
Synchronous motor, Self-starting. J. M. Naul. 1,947,423; Feb. 13.
Syringe or douche nozzle, Rectal. J. B. Bacon. 1,947,150; Feb. 13.
Tab applying machine. V. Gideon. 1,947,041; Feb. 13.
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Tank construction. G. T. Horton. 1,946,494; Feb. 13.
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Telegraph signals, System for repeating or relaying. H. H. Haglund and R. V. Morgenstern. 1,946,907; Feb. 13.
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Telephones, Attachment for use in connection with. A. Elboz. 1,946,617; Feb. 13.
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Tension device for automatic loom shuttles. W. E. Lundgren. 1,947,133; Feb. 13.
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Thermometer. R. E. Schneider. 1,947,175; Feb. 13.
Thermostat, Bimetal. H. Scott. 1,947,065; Feb. 13.
Thermostatic switch. D. G. Taylor. 1,946,598; Feb. 13.
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Thread package. G. K. Anderson. 1,947,284; Feb. 13.
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Toothbrush. A. E. Zerbee. 1,947,324; Feb. 13.
Torch, Gas. E. S. Huff. 1,947,087; Feb. 13.
Torque-resisting arrangement for vehicles. A. G. Rayburn. 1,947,358; Feb. 13.
Toy. B. R. and R. Kloeb. 1,947,343; Feb. 13.
Toy wheel. J. C. Turner. 1,947,025; Feb. 13.
Track for track laying wheels. J. Kuchar. 1,946,798–9; Feb. 13.
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Traction shoe. R. G. Gebhart. 1,946,846; Feb. 13.
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Trailer attachment for motor boats. G. E. Little. 1,946,497; Feb. 13.
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Transfer and preparing and applying designs. F. Kubin. 1,946,865; Feb. 13.
Transformers. E. J. Temple. 1,947,281; Feb. 13.
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Transmission, Hydraulic. A. R. Kuzelewski. 1,947,051; Feb. 13.
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Tube making apparatus. A. P. Diescher. 1,946,933; Feb. 13.
Tube making, capping, printing, and enameling machine. W. Prussing. 1,947,171; Feb. 13.
Tube tester. J. R. Barnhart. 1,946,466; Feb. 13.
Tubing, Corrugating. H. H. Babcock. 1,946,472; Feb. 13.
Turbine blades, Making tubular. C. Lorensen. 1,947,347; Feb. 13.
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Universal corner, reverse and division bar, Combination. A. H. Davis. 1,946,733; Feb. 13.
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Upper for footwear and making same. V. H. Bodle. 1,947,183; Feb. 13.
Utensil, Combination cooking. J. C. Johnson. Des. 91,487; Feb. 13.
Utensil, Culinary. A. S. Charlebois. 1,946,930; Feb. 13.
Vacuum container. H. W. Muhleisen. 1,946,872; Feb. 13.
Vacuum frame. D. V. Mazzocco. 1,946,539; Feb. 13.
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Valve for fire extinguisher systems. A. C. Rowley. 1,947,309; Feb. 13.
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Vaporizer, Liquid gas. M. E. Painter. 1,947,099; Feb. 13.
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Vault. Grave. E. H. Scott. 1,947,064; Feb. 13.
Vegetable jelly composition. A. W. Thomas and M. Mattikow. 1,946,649; Feb. 13.
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Vehicle brake. G. Napolitan. 1,947,272; Feb. 13.
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Vehicle transmission, Motor. A. Moorhouse. 1,946,871; Feb. 13.
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Vibrating machine for settling contents of bags. C. F. Allison and P. Nacher. 1,947,029; Feb. 13.
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Washing apparatus. J. J. Mojonnier. 1,946,805; Feb. 13.
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Welding apparatus. F. H. Mayoh. 1,947,300; Feb. 13.
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Welding electrode and flux therefor. L. G. Anastasiadis. 1,946,958; Feb. 13.
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Winding apparatus. E. J. McIlvried. 1,946,802; Feb. 13.
Winding machine. E. R. Swanson and W. Marcroft. 1,946,506; Feb. 13.
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Wood filler. J. F. Walsh. 1,947,438; Feb. 13.
Wood sawing machine. M. Kassay. 1,947,397; Feb. 13.
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Yarn twisting apparatus for fancy yarns. H. A. Leonard. 1,946,941; Feb. 13.
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265— 68: 1,946,775
267— 8: 1,946,613
20: 1,946,769
54: 1,947,146
268— 30: 1,946,970
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67: 1,946,577
271— 2.4: 1,947,015
2.5: 1,946,874
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62: 1,946,988
64: 1,947,396
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312— 38: 1,946,997

U. S. GOVERNMENT PRINTING OFFICE: 1934

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Beauty Macaroni Company, The. (See Kansas City Macaroni & Importing Company, The.)
American Distillers Corporation, San Francisco, Calif. Vermouth. Serial No. 343,541; Feb. 20. Class 47.
American Medicinal Soda Company. (See De Courcy, Paul.)
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Wire and more particularly spring wire. Serial No. 344,172; Feb. 20. Class 14.
American-Stewart Distillery, Inc., Baltimore, Md. Whiskey. Serial No. 345,192; Feb. 20. Class 49.
American Wringer Company, Inc., Woonsocket, R. I. Shoe welting. Serial No. 343,155; Feb. 20. Class 39.
Arabol Manufacturing Company, The, New York, N. Y. Adhesive liquid gum. Serial No. 343,906; Feb. 20. Class 5.
Armstrong-Newport Company, Carrollville, Wis. Fiber board, composite board, construction board, etc. Serial No. 345,491; Feb. 20. Class 12.
Arranbee Doll Co., New York, N. Y. Dolls and baby incubator toys. Serial No. 345,287; Feb. 20. Class 22.
B. B. & R. Knight Corporation, Providence, R. I. Cloth. Serial No. 345,203; Feb. 20. Class 42.
B. C. Company, Ltd., New York, N. Y. Whiskey, brandy, etc. Serial No. 344,464; Feb. 20. Class 49.
Baltimore Post Company, The, Baltimore, Md. Newspaper column. Serial Nos. 345,742–3; Feb. 20. Class 38.
Bardenheier, John, Wine & Liquor Co., St. Louis, Mo. Whiskey. Serial Nos. 345,494–5; Feb. 20. Class 49.
Barnhardt Brothers, Charlotte, N. C. Cotton and rayon yarn. Serial No. 345,327; Feb. 20. Class 43.
Barnhardt Brothers, Charlotte, N. C. Rayon yarn. Serial No. 345,328; Feb. 20. Class 43.
Barros, Almeida & Ca., Villa Nova de Gaya, Portugal. Wines. Serial No. 344,252; Feb. 20. Class 47.
Battle Creek Drugs, Inc., Battle Creek, Mich. Eliminent laxative and tonic. Serial No. 344,463; Feb. 20. Class 6.
Belmont Packing & Rubber Company, The, Philadelphia, Pa. Fiber and rubber packings. Serial No. 345,852; Feb. 20. Class 35.
Benjamin, Milburn J., Los Angeles, Calif. Trusses. Serial No. 345,147; Feb. 20. Class 44.
Best & Co., Inc., New York, N. Y. Dresses and hats. Serial No. 345,000; Feb. 20. Class 39.
Best Products, The. (See Stadish, Jos. J.)
Blum, Philip, & Company, Inc., Chicago, Ill. Whiskey, gin, rum, etc. Serial No. 345,745; Feb. 20. Class 49.
Booth, Robert, doing business as John Somerville & Company, Glasgow, Scotland. Whisky. Serial No. 342,408; Feb. 20. Class 49.
Brass, Samuel, Belleville, N. J. Dry gin. Serial No. 345,700; Feb. 20. Class 42.
Brenner Brothers, New York, N. Y. Ladies' clothing. Serial No. 342,834; Feb. 20. Class 39.
Brown, A. B., Co., Inc., Woodside, N. Y. Venetian blinds and parts thereof. Serial No. 344,882; Feb. 20. Class 32.
Brown & Bigelow, St. Paul, Minn. Etchings, greeting cards, etc. Serial No. 333,500; Feb. 20. Class 38.
Campana Corporation, Batavia, Ill. Cleansing tissues. Serial No. 345,535; Feb. 20. Class 37.
Campana Corporation, Batavia, Ill. Toilet preparation. Serial No. 345,536; Feb. 20. Class 6.
Castle, Eugene W., doing business as Castle Films, New York, N. Y. Motion-picture films. Serial No. 345,749; Feb. 20. Class 26.
Celebrity Productions, Inc., New York, N. Y. Motion pictures. Serial No. 345,140; Feb. 20. Class 26.
Centa Trading Corporation, New York, N. Y. Eyeglasses, spectacles, and sunglasses. Serial No. 345,854; Feb. 20. Class 26.
Cerf, Myrtile, San Francisco, Calif. Candies. Serial No. 344,418; Feb. 20. Class 46.
Chesbro Music Co., Idaho Falls, Idaho. Reeds for musical instruments. Serial No. 344,578; Feb. 20. Class 36.
Chivas Brothers, Aberdeen, Scotland. Whisky. Serial No. 344,760; Feb. 20. Class 49.
Clay, J., & Company (Bradford) Limited, Bradford, England. Cotton yarn and sewing cotton. Serial No. 344,761; Feb. 20. Class 43.
Collins, D. A., Mfg. Co., Inc., Brooklyn, N. Y. Preparations for cleansing and polishing auto bodies, furniture, etc. Serial No. 345,705; Feb. 20. Class 16.
Colonial Distilling and Distributing Corporation, New York, N. Y. Whiskey. Serial No. 345,241; Feb. 20. Class 49.
Colonial Distilling and Distributing Corporation, New York, N. Y. Whiskey. Serial No. 345,243; Feb. 20. Class 49.
Colonial Distilling and Distributing Corporation, New York, N. Y. Gin. Serial No. 345,331; Feb. 20. Class 49.
Colonial Distilling & Distributing Corporation, New York, N. Y. Whiskey. Serial No. 345,461; Feb. 20. Class 49.
Colonial Distilling & Distributing Corporation, New York, N. Y. Whiskey. Serial No. 345,463; Feb. 20. Class 49.
Colonial Distilling and Distributing Corporation, New York, N. Y. Whiskey. Serial No. 345,543; Feb. 20. Class 49.
Continental Corporation, Chicago, Ill. Spark plugs and distributors, etc. Serial No. 339,302; Feb. 20. Class 21.
Continental Distillers & Importers Corporation, New York, N. Y. Whiskey. Serial Nos. 344,885–90; Feb. 20. Class 49.
Continental Distillers & Importers Corporation, New York, N. Y. Whiskey. Serial Nos. 345,579–80; Feb. 20. Class 49.
Cowles Detergent Company, Cleveland, Ohio. Chemical detergent. Serial No. 345,008; Feb. 20. Class 4.
Croizet, Eymard & Cie, Saint-Meme-Cognac, France. Brandy, cognacs. Serial Nos. 345,858–9; Feb. 20. Class 49.
Crown Willamette Paper Company, San Francisco, Calif. Tissue and paper. Serial No. 345,860; Feb. 20. Class 37.
Dale, Francis, Paris, France. Skin lotion. Serial No. 341,355; Feb. 20. Class 6.
Davis Brothers Drug Company, The, Denver, Colo. Wines. Serial No. 345,246; Feb. 20. Class 47.
Davis, Joel Rally, Company, Philadelphia, Pa. Hosiery, underwear, sweaters, etc. Serial No. 344,394; Feb. 20. Class 39.
De Courcy, Paul, doing business as American Medicinal Soda Company, Cincinnati, Ohio. Medicines and preparations for gargle and mouth wash. Serial No. 345,292; Feb. 20. Class 6.
Dodge, F. W., Corporation, New York, N. Y. Periodical. Serial No. 345,464; Feb. 20. Class 38.
Doniger, David D., & Co., New York, N. Y. Sports wear. Serial No. 345,500; Feb. 20. Class 39.
Drexell Products Corp., Brooklyn, N. Y. Powder puffs. Serial No. 344,769; Feb. 20. Class 29.
Dwinell-Wright Company, Boston, Mass. Tea. Serial No. 345,903; Feb. 20. Class 46.
Eaton Paper Corporation, Pittsfield, Mass. Stationery. Serial No. 345,824; Feb. 20. Class 37.
Elroy, George, doing business as Elroy's Six Point Formula, Los Angeles, Calif. External formula for bronchial irritations, colds and coughs, cuts, etc. Serial No. 338,315; Feb. 20. Class 6.
Elroy's Six Point Formula. (See Elroy, George.)
Ely & Walker Dry Goods Company, St. Louis, Mo. Knitted and woven fabrics. Serial No. 345,247; Feb. 20. Class 42.
Embury Manufacturing Co., Warsaw, N. Y. Oil lanterns. Serial No. 345,418; Feb. 20. Class 34.
Evons, Louis E., doing business as Evons Laboratories, Philadelphia, Pa. Antiseptic salve for veterinary use, antiseptic cream for use in treatment of insect bites, exzema, etc. Serial No. 343,487; Feb. 20. Class 6.
F. & M. Importing Co. Inc., Los Angeles, Calif. Food products. Serial No. 336,605; Feb. 20. Class 46.
Factor, Max, & Co. Inc., Los Angeles, Calif. Bleach mask, eau de cologne, powder foundation, etc. Serial No. 332,579; Feb. 20. Class 6.
Far North Potato Association. (See Taintor, Elmer J.)
Feller, Harry, Company, Louisville, Ky. Men's ties and mufflers. Serial No. 338,408; Feb. 20. Class 39.
Fells, John E., & Sons Limited, London, England. Whisky, gin, rum, etc. Serial No. 345,862; Feb. 20. Class 49.
Feminine Hygiene Laboratories, Buffalo, N. Y. Preparation in tablet, etc., form for the treatment of amenorrhea, dysmenorrhea, menorrhagia, etc. Serial No. 344,583; Feb. 20. Class 6.
Finch, Jos. S., & Company, Schenley, Pa., and New York, N. Y. Whiskey, etc. Serial No. 345,620; Feb. 20. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 345,760; Feb. 20. Class 49.
Finch, Jos. S., & Company, Schenley, Pa. Whiskey, gin, rum, etc. Serial No. 346,002; Feb. 20. Class 49.
Flaster, Marcella, doing business as The Theon Company, New York, N. Y. Nail polish. Serial No. 343,729; Feb. 20. Class 6.
Floral Crown Food Corporation, New York, N. Y. Egg noodles. Serial No. 341,920; Feb. 20. Class 46.
Florida Canning Corporation, Tampa, Fla. Canned grapefruit juice and canned grapefruit. Serial No. 340,644; Feb. 20. Class 46.
Foell Packing Company, doing business as Mascot Packing Co., Chicago, Ill. Dog foods. Serial No. 340,042; Feb. 20. Class 46.
Folmer Graflex Corporation, Rochester, N. Y. Photographic film and plate holders. Serial No. 345,621; Feb. 20. Class 26.
Forsyth, Peter, & Co. (See Latimer, Philip F.)
Frankfort Distilleries, Incorporated, Louisville, Ky. Whiskey. Serial No. 344,586; Feb. 20. Class 49.

Frankfort Distilleries, Incorporated, Louisville, Ky. Gin. Serial No. 345,662; Feb. 20. Class 49.
Franklin Shoe Company, Boston, Mass. Shoes. Serial No. 333,353; Feb. 20. Class 39.
Friedman, Keller & Company, Incorporated, Paducah, Ky. Whiskey and gin. Serial No. 345,199; Feb. 20. Class 49.
Fritz Brewing Company. (See Smith, J. F.)
General Tire & Rubber Company, The, Akron, Ohio. Tires. Serial No. 345,622; Feb. 20. Class 35.
Genesee Brewing Co., Inc., The, Rochester, N. Y. Ale. Serial No. 344,230; Feb. 20. Class 48.
Gilbert, A. C., Company, The, New Haven, Conn. Chest handles. Serial No. 345,829; Feb. 20. Class 13.
Gleumoor Mills, Inc., New York, N. Y. Tailor's stiffening canvas. Serial No. 345,249; Feb. 20. Class 42.
Goldenberg, D., Inc., Philadelphia, Pa. Candy. Serial No. 333,226; Feb. 20. Class 46.
Goldenberg, Robert, doing business as Sphinx Distributing Company, Los Angeles, Calif. Whiskey. Serial No. 345,102; Feb. 20. Class 49.
Gordon, Leonard; Importation Co. Inc., New York, N. Y. Whiskey and gin. Serial No. 346,033; Feb. 20. Class 49.
Governor and Company of Adventurers of England Trading into Hudson's Bay, The, doing business as Hudson's Bay Company, London, England, and Winnipeg, Manitoba, Canada. Whiskey. Serial No. 345,486; Feb. 20. Class 49.
Governor and Company of Adventurers of England Trading into Hudson's Bay, The, doing business as Hudson's Bay Company, London, England, and Winnipeg, Manitoba, Canada. Gin. Serial No. 345,467; Feb. 20. Class 49.
Governor and Company of Adventurers of England Trading into Hudson's Bay, The, doing business as Hudson's Bay, Company, London, England, and Winnipeg, Manitoba, Canada. Brandy. Serial Nos. 345,468–9; Feb. 20. Class 49.
Governor and Company of Adventurers of England Trading into Hudson's Bay, The, doing business as Hudson's Bay, Company, London, England, and Winnipeg, Manitoba, Canada. Whisky. Serial No. 345,587; Feb. 20. Class 49.
Grumbacher, M., New York, N. Y. Pastel paper, bristol board, thumb tacks, etc. Serial No. 344,322; Feb. 20. Class 37.
Hahn, Hyman, Brooklyn, N. Y. Packed whipped butter. Serial No. 344,782; Feb. 20. Class 46.
Hammel, Riglander-Pennant Corporation, now by change of name Hammel, Riglander & Co. Inc., New York, N. Y. Tweezers, pliers, and nippers. Serial No. 344,090; Feb. 20. Class 23.
Hansen, Firmaet A., Kastrup, Denmark. Vegetable seed. Serial No. 343,349; Feb. 20. Class 1.
Hercules Powder Company, Wilmington, Del. Dynamite. Serial Nos. 346,197–8; Feb. 20. Class 9.
Hermann, Seymour M., New York, N. Y. Laxative enema. Serial No. 342,629; Feb. 20. Class 6.
Hollingshead, R. M., Co., The, Camden, N. J. Transmission grease, cup grease, nonfluid oil, etc. Serial No. 332,391; Feb. 20. Class 15.
Hollywood Candy Co. (See Martoccio, F. A., Company.)
Holyoke Belting Company, Holyoke, Mass. Leather belting. Serial No. 344,401; Feb. 20. Class 35.
Holyoke Belting Company, Holyoke, Mass. Belting. Serial No. 345,768; Feb. 20. Class 35.
Hoosier Distillery Co., Schenley, Pa., and New York, N. Y. Whiskey, etc. Serial No. 345,626; Feb. 20. Class 49.
Hornung, Jacob, Brewing Co., Philadelphia, Pa. Malt beverages. Serial No. 345,470; Feb. 20. Class 48.
Hudson Motor Car Company, Detroit, Mich. Axles. Serial No. 345,158; Feb. 20. Class 19.
Hudson's Bay Company. (See Governor and Company of Adventurers of England Trading into Hudson's Bay.)
Hy'ne Company, doing business as Lake Shore Laboratories, Chicago, Ill. Antiseptic suppositories. Serial No. 344,654; Feb. 20. Class 6.
Hy'ne Company, doing business as Valgene Laboratories, Chicago, Ill. Antiseptic suppositories. Serial No. 344,655; Feb. 20. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Emulsions containing vitamins A and D for conditions due to a deficiency of these vitamins. Serial No. 345,051; Feb. 20. Class 6.
Inkograph Co., Inc., New York, N. Y. Fountain pens. Serial No. 344,333; Feb. 20. Class 37.
Institute of Carpet Manufacturers of America, Inc., New York, N. Y. Carpets and rugs. Serial No. 330,684; Feb. 20. Class 42.
Jack Frost Yarn Company, New York, N. Y. Yarns. Serial No. 344,332; Feb. 20. Class 43.
Jameson, John, & Son, Limited, Dublin, Irish Free State. Whiskey. Serial No. 343,453; Feb. 20. Class 49.
Jewel Tea Co., Inc., Barrington, Ill. Oat cereal, coffee, tea, rice, etc. Serial No. 333,037; Feb. 20. Class 46.
Johns-Manville Corporation, New York, N. Y. Refractory cements. Serial No. 345,298; Feb. 20. Class 12.
Jones, C. Harvey, Seattle, Wash. Educational publications. Serial No. 342,911; Feb. 20. Class 38.
Jordan, Arthur M., doing business as Pinelawn Farm Products Co., Pinelawn, N. Y. Food products. Serial No. 308,207; Feb. 20. Class 46.
Kali-Chemie Aktiengesellschaft, Berlin, Germany. Pancreatic preparations, expectorants, plasters, etc. Serial No. 331,502; Feb. 20. Class 6.
Kansas City Macaroni & Importing Company, doing business as The American Beauty Macaroni Company, Kansas City, Mo. Noodles. Serial No. 344,788; Feb. 20. Class 46.
Kimball, A., Company, New York, N. Y. Price tags. Serial Nos. 345,597–8; Feb. 20. Class 37.
Kobert, Charles, doing business as Charles Kobert and Company, Lebanon, Ky. Whiskey. Serial No. 345,423; Feb. 20. Class 49.
Kolmar, Inc., Cincinnati, Ohio. Whiskey, brandy, gin, etc. Serial No. 345,110; Feb. 20. Class 49.
Kolmar, Inc., Cincinnati, Ohio. Whiskey, brandy, gin, etc. Serial No. 345,164; Feb. 20. Class 49.
Kolmar, Inc., Cincinnati, Ohio. Whiskey, brandy, gin, etc. Serial Nos. 345,772–3; Feb. 20. Class 49.
Korbro Oil Corporation, Brooklyn, N. Y. Vegetable and salad oils. Serial No. 343,178; Feb. 20. Class 46.
Kundel & Braun, Inc., Hoboken, N. J. Braided rope mats. Serial No. 342,656; Feb. 20. Class 50.
Kunkelmann & Cie, Société Anonyme, Reims, France. Champagne wines. Serial No. 345,774; Feb. 20. Class 47.
Lady of Refinement Hosiery Company, Phi'adelphia, Pa. Hosiery. Serial No. 344,938; Feb. 20. Class 39.
Laird & Company, Scobeyville, and Eatontown, N. J. Brandy. Serial No. 343,353; Feb. 20. Class 49.
Laird & Company, Scobeyville and Eatontown, N. J. Brandy. Serial No. 343,355; Feb. 20. Class 49.
Lake Garfield Nurseries Co., Bartow, Fla. Fresh citrus fruits. Serial No. 345,209; Feb. 20. Class 46.
Lake Shore Laboratories. (See Hy'ne Company.)
La Madelon Importing Company, Boston, Mass. Gin, etc. Serial No. 345,424; Feb. 20. Class 49.
Landis Machine Company, Waynesboro, Pa. Thread'ng machines. Serial No. 345,600; Feb. 20. Class 23.
Lash, Inc., San Francisco, Calif. Whiskey. Serial No. 345,166; Feb. 20. Class 49.
Lash, Inc., San Francisco, Calif. Gin. Serial No. 345,167; Feb. 20. Class 49.
Lash, Inc., San Francisco, Calif. Whiskey. Serial No. 345,168; Feb. 20. Class 49.
Latimer, Philip F., doing business as Peter Forsyth & Co., Glasgow, Scotland. Whisky. Serial No. 343,737; Feb. 20. Class 49.
Laurens, J. Mouren, Los Angeles, Calif. Lubricating oils and greases. Serial No. 341,868; Feb. 20. Class 15.
Lindener Zuendhuetchen- und Patronen-fabrik A. G., Linden, Germany. Explosives. Serial No. 341,975; Feb. 20. Class 9.
Louisiana Timber Company, Inc., Kenner, La. Boat oars, canoe paddles, and pirogues. Serial No. 343,116; Feb. 20. Class 19.
Love, Albert G., Taft, Calif. Carbonated coffee beverage. Serial No. 345,212; Feb. 20. Class 45.
Low, R. M., doing business as Low Chemical Company, New York, N. Y. Device for cleaning and sterilizing telephone mouthpieces. Serial No. 345,472; Feb. 20. Class 44.
Lowman and Hanford Company, Seattle, Wash. Paper. Serial No. 333,075; Feb. 20. Class 37.
Lubrichart Company, The, Cleveland, Ohio. Printed charts concerning the lubrication of machinery. Serial No. 345,117; Feb. 20. Class 38.
Luke, Robert S., doing business as The Mineral Valley Company, Mineral Wells, Tex. Healing external application for colds, chapped and irritated skin, etc. Serial No. 344,724; Feb. 20. Class 6.
Mack, Edward F., New York, N. Y. Series of cartoons. Serial No. 345,718; Feb. 20. Class 38.
Manhattan Shirt Co., The, New York, N. Y. Neckties. Serial No. 345,602; Feb. 20. Class 39.
Marine Buyers Guide Publishing Co. Inc., New York, N. Y. Publication. Serial No. 343,998; Feb. 20. Class 38.
Marsh, M., & Son, Wheeling, W. Va. Cigars. Serial No. 345,719; Feb. 20. Class 17.
Marshall Field & Company, Chicago, Ill. Shirts and pajamas. Serial No. 338,613; Feb. 20. Class 39.
Marshall-Wells Company, doing business as Of Reliable Sporting Goods Co., Duluth, Minn. Striking bags. Serial No. 344,793; Feb. 20. Class 22.
Martoccio, F. A., Company, doing business as Hollywood Candy Co., Minneapolis, Minn. Candy. Serial No. 341,582; Feb. 20. Class 46.
Mascot Packing Co. (See Foell Packing Company.)
McMillan & Harrison Fertilizer Co., Mobile, Ala. Nitrate. Serial No. 344,663; Feb. 20. Class 10.
Medicinal Products, Inc., L'Anse, Mich. Medicines. Serial No. 340,195; Feb. 20. Class 6.
Miller, Frank P., Cleveland, Ohio. Series of comic drawings. Serial No. 345,631; Feb. 20. Class 38.
Miller, L. Otus, Asheville, N. C. Medicine for reduction of blood pressure. Serial No. 345,032; Feb. 20. Class 6.
Millers Falls Paper Company, Millers Falls, Mass. Paper. Serial No. 345,783; Feb. 20. Class 37.

Mineral Valley Water Company, The. (See Luke, Robert S.)
Mission Dry Corporation, New York, N. Y. Whiskey. Serial No. 345,677; Feb. 20. Class 49.
Mission Dry Corporation, New York, N. Y. Whiskey. Serial No. 345,678; Feb. 20. Class 49.
Mission Dry Corporation, New York, N. Y. Alcoholic cocktails. Serial No. 345,784; Feb. 20. Class 49.
Mollfulleda Congost, Santiago, New York, N. Y. Ethyl alcohol, brandies, etc. Serial No. 343,724; Feb. 20. Class 49.
Mollfulleda Congost, Santiago, New York, N. Y. Ethyl alcohol, brandies, etc. Serial No. 343,726; Feb. 20. Class 49.
Moore, George L., doing business as Tablet Sixty-Six Laboratories, Hollywood, Calif. Preparation for the t eatment of neuralgia and rheumatism. Serial No. 338,984; Feb. 20. Class 6.
Morton, George, Limited, Dundee, Scotland. Whisky. Serial No. 343,620; Feb. 20. Class 49.
Mutual Distributors, Ltd., Los Angeles, Calif. Fresh fruits. Serial No. 332,698; Feb. 20. Class 46.
N. V. Likeurstokerij Wijnand Fockink, Amsterdam, Netherlands. Gin, liqueurs, bitters, etc. Serial No. 341,296; Feb. 20. Class 49.
National Automatic Machines Company, St. Paul, Minn. Coin-controlled amusement device. Serial No. 345,307; Feb. 20. Class 22.
National Carbon Company, Inc., New York, N. Y. Metal polishes, glass cleaners, and polishes, etc. Serial No. 345,433; Feb. 20. Class 4.
Noblesville Milling Co., Noblesville, Ind. Wheat flour. Serial No. 338,843; Feb. 20. Class 46.
Nolan, Jean, Beauty Aids, Inc., Detroit, Mich. Toilet articles, cosmetics, and beauty aids. Serial No. 345,596; Feb. 20. Class 8.
North American Brewing Company, Brook'yn, N. Y. Beer. Serial No. 345,835; Feb. 20. Class 48.
Odorono Company, Inc., The, New York, N. Y. Soaps. Serial No. 345,609; Feb. 20. Class 4.
Old Quaker Company, The, New York, N. Y. Gin, whiskey, etc. Serial No. 345,120; Feb. 20. Class 49.
Oleothesin Company, Inc., The, Buffalo, N. Y. Ampoules and tubes containing anæsthetic preparations. Serial No. 343,740; Feb. 20. Class 6.
Ol'Reliable Sporting Goods Co. (See Marshall-Wells Company.)
Parco Products, Incorporated, New York, N. Y. Paint. Serial No. 344,944; Feb. 20. Class 16.
Parker Brothers Inc., Portland, Maine, and Salem, Mass. Parlor board game. Serial No. 344,604; Feb. 20. Class 22.
Pennsylvania Distilling Co., Inc., doing business as Pennsylvania Distillery, Inc., Logansport, Pa., and B ooklyn, N. Y. Whisky and other potable distilled spirits. Serial No. 346,214; Feb. 20. Class 49.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. Serial No. 345,681; Feb. 20. Class 15.
Pepper, Jas. E., & Company, Lexington, Ky., and New York, N. Y. Whiskey, etc. Serial No. 345,398; Feb. 20. Class 49.
Pharma-Craft Corporation, The, Louisville, Ky. Dietetic foods and ingredients thereof. Serial No. 308,950; Feb. 20. Class 46.
Pinelawn Farm Products Co. (See Jordan, Arthur M.)
Polefsky, Jacob S., New York, N. Y. Distilled alcoholic cordials and liqueurs, etc. Serial No. 326,026; Feb. 20. Class 49.
Pollack, Sarah, Denville, N. J. Cleansing and nourishing skin cream. Serial No. 343,741; Feb. 20. Class 6.
Quaker State Oil Refining Co., Inc., Oil City, Pa. Lubricating oils and greases. Serial No. 344,606; Feb. 20. Class 15.
Rational Medicines, Inc., New York, N. Y. Medicinal p'eparation for pain alleviator. Serial No. 345,119; Feb. 20. Class 6.
Regal Shirt Company, Philadelphia, Pa. Men's negligee shirts. Serial No. 340,897; Feb. 20. Class 39.
Riviera Wine Company, Washington, D. C. Wines. Serial No. 344,867; Feb. 20. Class 47.
Rothenstein, Albert, New York, N. Y. Radio receiving sets. Serial No. 342,377; Feb. 20. Class 21.
Rummel, J. Willard, Cincinnati, Ohio. Toy boomerang. Serial No. 345,177; Feb. 20. Class 22.
Russell-Miller Milling Co., Minneapolis, Minn. Wheat flour. Serial No. 345,356; Feb. 20. Class 46.
Samson-United Corporation, Rochester, N. Y. Sachet pads for permanent waving. Serial No. 343,793; Feb. 20. Class 44.
Sani-Cross Laboratories, San Francisco, Calif. Preparation for use in feminine hygiene. Serial No. 345,270; Feb. 20. Class 6.
Schenley Products Company, New York, N. Y. Whiskey and other potable distilled spirits. Serial No. 345,221; Feb. 20. Class 49.
Schenley Wine & Spirit Import Corporation, New York, N. Y. Wines. Serial No. 345,125; Feb. 20. Class 47.
Schwitzer-Cummins Company, Indianapolis, Ind. Time-control device for stokers and the like. Serial No. 343,575; Feb. 20. Class 26.
Sindicato Agricola Alella Vinicola Cooperativa Ce Producc'on y Venta, Alella, Spain. Wines. Serial No. 345,841; Feb. 20. Class 47.
Skelly Oil Company, Tulsa, Okla. Lubricating oils, greases, and gasoline. Serial No. 345,684; Feb. 20. Class 15.
Smith, J. F., doing business as Fritz Brewing Company, Freeport, Ill. Beer and malt beverages. Serial No. 345,562; Feb. 20. Class 48.
Sociedad Explotadora de las Aguas de Rubinat-Llorach, Sociedad Anonima, Barcelona, Spain. Mineral waters. Serial No. 340,133; Feb. 20. Class 45.
Sociedade Comercial Abel Pereira da Fonseca, Lisbon, Portugal. Wines. Serial No. 343,576; Feb. 20. Class 47.
Solder-X Company. (See Zipprich, Carl J.)
Somerville, John, & Company. (See Booth, Robert.)
Speidel, L., & Co., Inc., Boston, Mass. Gin and other potable distilled spirits. Serial No. 345,180; Feb. 20. Class 49.
Speidel, L., & Co., Inc., Boston, Mass. Whiskey and other potable distilled spirits. Serial No. 345,985; Feb. 20. Class 49.
Spellman, E. L., Co. Inc., Hoboken, N. J. Brandy. Serial No. 345,614; Feb. 20. Class 49.
Spellman, E. L., Co. Inc., Hoboken, N. J. Whiskey. Serial No. 345,686; Feb. 20. Class 49.
Spellman, E. L., Co. Inc., Hoboken, N. J. Whiskey. Serial No. 345,688; Feb. 20. Class 49.
Sphinx Distributing Company. (See Goldenberg, Robert.)
Squibb, E. R., & Sons, New York, N. Y. Dentifrice. Serial No. 336,337; Feb. 20. Class 6.
Stadish, Jos. J., doing business as The Best Products, Milwaukee, Wis. Birdseed, moulting food, flute-note seed for birds, and color food. Serial No. 322,716; Feb. 20. Class 46.
Stagg, Geo. T., Co., The, Frankfort, Ky. Whiskey and other potable distilled spirits. Serial No. 345,181; Feb. 20. Class 49.
Standard Brands Incorporated, New York, N. Y. Coffee. Serial No. 344,924; Feb. 20. Class 46.
Standard Rice Company, Inc., Houston, Tex., and Crowley, La. Rice and rice products. Serial No. 331,755; Feb. 20. Class 46.
Standard Textile Co., Memphis, Tenn. Overalls, pants, vests, and jackets. Serial No. 344,166; Feb. 20. Class 39.
Stanley, James S., New York, N. Y. Plaster of Paris. Serial No. 344,681; Feb. 20. Class 12.
Star Distributors, Inc., New York, N. Y. Blended whiskey. Serial Nos. 345,566–7; Feb. 20. Class 49.
Star Distributors, Inc., New York, N. Y. Whiskey. Serial No. 345,615; Feb. 20. Class 49.
Strock, S., & Co. Inc., New York, N. Y. Wool fabric. Serial No. 345,571; Feb. 20. Class 42.
Superheater Company, The, Wilmington, Del., and New York, N. Y. Superheaters, oil heaters, and boilers. Serial No. 341,945; Feb. 20. Class 34.
Surgical Dressings, Inc., Boston, Mass. Bandages. Serial No. 345,694; Feb. 20. Class 44.
Tablet Sixty-Six Laboratories. (See Moore, George L.)
Taintor, Elmer J., doing business as Far North Potato Association, Park River, N. Dak. Food products. Serial No. 343,257; Feb. 20. Class 46.
Tested Products Laboratories Inc., Boston, Mass. Preparation for the treatment of acid dyspepsia. Serial Nos. 344,365–6; Feb. 20. Class 6.
Theon Company, The. (See Flaster, Marcella.)
Thurman, Frederick W., Chicago, Ill. Cheese. Serial No. 345,923; Feb. 20. Class 46.
Thyrole Chemical Company. (See Weinstock, Ralph I.)
Toledo Pipe Threading Machine Company, The, Toledo, Ohio. Tool lubricants. Serial No. 345,896; Feb. 20. Class 15.
Tonkin Distributing Co., San Francisco, Calif. Whiskey and other potable distilled spirits. Serial Nos. 345,185–6; Feb. 20. Class 49.
Toy Town Chocolates, Inc., Winchendon, Mass. Confectionery. Serial No. 329,389; Feb. 20. Class 46.
Trzeciak, Jakob A., Rochester, N. Y. Herb preparations for relief of colds and bloated stomach. Serial No. 344,992; Feb. 20. Class 6.
Union des Proprietaires Distillateurs, Cognac, France. Brandy. Serial No. 345,846; Feb. 20. Class 49.
Union des Proprietaires Distillateurs, Cognac, France. Brandy. Serial Nos. 345,847–8; Feb. 20. Class 49.
United Feature Syndicate, Inc., New York, N. Y. Comic strip. Serial No. 345,585; Feb. 20. Class 38.
United Feature Syndicate, Inc., New York, N. Y. Comic drawings. Serial No. 345,735; Feb. 20. Class 38.
Universal Distillers, Inc., Los Angeles, Calif. Gin. Serial No. 345,128; Feb. 20. Class 49.
Valentine & Company, New York, N. Y. Varnish enamels, clear varnishes, paint primers, etc. Serial No. 345,189; Feb. 20. Class 16.
Valgene Laboratories. (See Hy'ne Company.)
Vandam, Albert H., Co., Inc., New York, N. Y. Piece goods of silk, cotton, etc. Serial No. 343,534; Feb. 20. Class 42.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Vann-Moore Mills Co., Franklinton, N. C. Terry cloth piece goods, terry towels, bath mats, and washcloths. Serial No. 342,370; Feb. 20. Class 42.

Viviano, V., & Bros. Macaroni Mfg. Co., St. Louis, Mo. Alimentary pastes. Serial No. 343,660; Feb. 20. Class 46.

Viviny Perfumers, Inc., West Haven, Conn. Cosmetics. Serial No. 344,819; Feb. 20. Class 6.

Walker, Hiram, & Sons, Inc., Peoria, Ill. Gin, etc. Serial Nos. 345,280–1; Feb. 20. Class 49.

Wall Street Cravats, Chicago, Ill. Neckwear and four-in-hand neckties. Serial No. 345,481; Feb. 20. Class 39.

Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft, Schonau, near Chemnitz, Germany. Eraser stencils, manuscript holders, typewriter copyholders, etc. Serial No. 345,737; Feb. 20. Class 37.

Watson, James, & Co. Limited, Dundee, Scotland. Whisky. Serial No. 345,129; Feb. 20. Class 49.

Weinstock, Ralph I., doing business as Thyrole Chemical Company, Philadelphia, Pa. Filled capsules for allaying menstrual pains. Serial No. 344,925; Feb. 20. Class 6.

Whittier Select Citrus Association, Whittier, Calif. Fresh citrus fruits. Serial No. 332,794; Feb. 20. Class 46.

Wiedemann Brewery Corporation, Newport, Ky. Beer. Serial No. 342,379; Feb. 20. Class 48.

Wilkinson & Muhm, San Francisco, Calif. Whiskey. Serial Nos. 345,362–3; Feb. 20. Class 49.

Wine Corporation of America, New York, N. Y. Still and sparkling wines. Serial No. 345,577; Feb. 20. Class 47.

Wolverine-Empire Refining Co., New York, N. Y. Lubricating oils and greases. Serial No. 345,649; Feb. 20. Class 15.

Wortendyke Manufacturing Co., Richmond, Va. Paper bags and sacks. Serial No. 345,578; Feb. 20. Class 2.

Wright, Frederic E., Flushing, N. Y. Golf balls and checkers and backgammon game boards. Serial No. 345,232; Feb. 20. Class 22.

Wurzburg Brothers, Memphis, Tenn. Corrugated filer filing cases. Serial No. 333,622; Feb. 20. Class 37.

Zipprich, Carl J., doing business as Solder-X Company, Chicago, Ill. Preparation and composition to be used for internally mending and stopping leaks in radiators, etc. Serial No. 342,233; Feb. 20. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Allan Chemical Co., The. (See Oratone Company, The, assignor.)

Atkin, William, Co., Inc., New York, N. Y. Shirts. 310,348; Feb. 20; Serial No. 340,337; published Nov. 21, 1933. Class 39.

Ault & Wiborg Carbon & Ribbon Co. Inc., Cincinnati, Ohio. Process paint colors. 310,301; Feb. 20; Serial No. 341,011; published Dec. 5, 1933. Class 16.

Austral Window Company, Augusta, Maine, and New York, N. Y. Windows. 94,586; renewed Dec. 23, 1933.

Baker Extract Co., Springfield, Mass. Rum syrup for flavoring food. 310,304; Feb. 20; Serial No. 332,909; published Dec. 5, 1933. Class 46.

Barker Bros. Incorporated, Los Angeles, Calif. Crockery, earthenware, and chinaware. 310,377; Feb. 20. Class 30.

Beacon Miniature Electric Company, assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Electric flash-light lamps. 94,978; renewed Jan. 20, 1934.

Berman, Walter S., New York, N. Y. Liquors and cordials. 310,390; Feb. 20. Class 49.

Bessire & Company, Indianapolis, Ind., and Louisville, Ky., to Bessire & Company, Indianapolis, Ind. Foods. 94,266; renewed Nov. 25, 1933.

Blackman, Rose L., doing business as The Colowax Company, Brooklyn, N. Y. Wax wood polishes. 310,323; Feb. 20; Serial No. 342,306; published Dec. 5, 1933. Class 16.

Bohemian Distributing Co. Ltd., Los Angeles, Calif. Wines. 310,311; Feb. 20; Serial No. 342,572; published Dec. 12, 1933. Class 47.

Bohemian Distributing Co. Ltd., Los Angeles, Calif. Malt-less beverages, and syrups, extracts, and concentrates for making the same. 310,381; Feb. 20. Class 45.

Bourjois, Inc., New York, N. Y. Toilet soap. 310,371; Feb. 20; Serial No. 343,146; published Dec. 12, 1933. Class 4.

Bowers Rubber Company, to Pioneer Rubber Mills, San Francisco, Calif., successor. Rubber and cotton hose. 42,455; renewed Apr. 19, 1934.

Bradford Beer Corporation, Bradford, Pa. Beer, lager beer, ale, and porter. 310,361; Feb. 20; Serial No. 342,729; published Dec. 12, 1933. Class 48.

Brewing Corporation of Canada, Limited, Toronto, Ontario, Canada. Ales, beers, lagers, stouts, etc. 310,329; Feb. 20; Serial No. 342,057; published Dec. 12, 1933. Class 48.

Bridge & Beach Mfg. Co., St. Louis, Mo. Heaters. 310,321; Feb. 20; Serial No. 342,384; published Dec. 12, 1933. Class 34.

Brown Paper Goods Company, Chicago, Ill. Envelopes or bags. 310,316; Feb. 20; Serial No. 342,520; published Dec. 12, 1933. Class 2.

Burroughs, Edgar Rice, Inc., Tarzana, Calif. Jugs, mugs, eating bowls, dishes, etc. 310,355; Feb. 20; Serial No. 342,642; published Dec. 12, 1933. Class 30.

Burroughs, Edgar Rice, Inc., Tarzana, Calif. Soap, cleaner, and shoe dressings and wax. 310,356; Feb. 20; Serial No. 342,637; published Dec. 12, 1933. Class 4.

Business Journals, Inc., New York, N. Y. Magazine. 310,317; Feb. 20; Serial No. 342,521; published Dec. 12, 1933. Class 38.

Campana Corporation, Batavia, Ill. Manicure implements, sets, and kits. 310,367; Feb. 20; Serial No. 343,027; published Dec. 12, 1933. Class 44.

Cavallaro, John L., doing business as J. L. Laro Co., San Francisco, Calif. Relish. 310,298; Feb. 20; Serial No. 341,476; published Dec. 12, 1933. Class 46.

Central Co-Operative Wholesale, Superior, Wis. Fruits, vegetables, anchovies, etc. 310,340; Feb. 20; Serial No. 338,486; published Nov. 28, 1933. Class 46.

Champion de Arment Tool Company, Meadville, Pa. Pliers. 310,389; Feb. 20. Class 23.

Chapin and Gore, Chicago, Ill. Whiskies. 42,627; renewed May 17, 1934.

Chocco-Yeast Inc. (See Homer, L. L., and Price.)

Colowax Company, The. (See Blackman, Rose L.)

Columbus Coated Fabrics Corporation, Columbus, Ohio. Table covers. 310,302; Feb. 20; Serial No. 341,073; published Dec. 12, 1933. Class 50.

Compañia Primer Molino Arrocero de Cuba, S. A., Habana, Cuba. Rice. 310,297; Feb. 20; Serial No. 341,425; published Dec. 12, 1933. Class 46.

Comptoir Général de Vente de la Montre Roskopf, Société Anonyme Vve Chs. Léon Schmid & Cie, La Chaux-de-Fonds, Switzerland. Watches and parts thereof. 310,346; Feb. 20; Serial No. 339,889; published Dec. 12, 1933. Class 27.

Conroy, John F., doing business as Purgo Drug Co., Baltimore, Md. Medicinal preparation. 310,320; Feb. 20; Serial No. 342,338; published Nov. 28, 1933. Class 6.

Corn Products Refining Company, New York, N. Y. Corn syrups, sugars, etc. 310,350; Feb. 20; Serial No. 340,672; published Dec. 5, 1933. Class 46.

Croizet, Eymard & Cie, St.-Meme-Cognac, France. Brandy, cognacs. 310,392; Feb. 20. Class 49.

Cumberland Brewing Company of Allegany County, Maryland, Cumberland, Md. Lager beer. 42,441; renewed Apr. 19, 1934.

Curtiss Aerocar Company, Inc., Coral Gables, Fla. Commercial trailer. 310,313; Feb. 20; Serial No. 342,610; published Dec. 12, 1933. Class 19.

Dason Products Company. (See Malachoff, David J.)

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Belts. 310,345; Feb. 20; Serial No. 339,451; published Dec. 12, 1933. Class 35.

Delaforce Sons & Co., Villa Nova de Gaya, Portugal. Port wine. 310,369; Feb. 20; Serial No. 343,114; published Dec. 12, 1933. Class 47.

Derst Baking Company, Savannah, Ga. Empty cartons. 310,360; Feb. 20; Serial No. 342,690; published Dec. 5, 1933. Class 2.

D'Hanese, Pierre J., Paris, France. Wines. 310,339; Feb. 20; Serial No. 337,508; published Dec. 12, 1933. Class 47.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 95,075; renewed Feb. 3, 1934.

Duff, P., & Sons, Inc., Pittsburgh, Pa. Flour. 310,294; Feb. 20; Serial No. 341,918; published Dec. 5, 1933. Class 46.

Elliott Paint & Varnish Co., Chicago, Ill. Paint. 310,384; Feb. 20. Class 16.

Estate Stove Company, The, Hamilton, Ohio. Stoves and furnaces. 310,305; Feb. 20; Serial No. 331,302; published Dec. 12, 1933. Class 34.

Everard's, James, Companies, Inc., New York, N. Y. Malt beverages. 310,349; Feb. 20; Serial No. 340,087; published Dec. 12, 1933. Class 48.

Fischel, Henry A., Inc., Philadelphia, Pa. Plant fertilizer. 310,326; Feb. 20; Serial No. 342,127; published Dec. 12, 1933. Class 10.

Florida Fishing Tackle Mfg. Co. Inc., St. Petersburg, Fla. Fishing rods and supplies. 310,314; Feb. 20; Serial No. 342,534; published Dec. 12, 1933. Class 22.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper towels, paper napkins, and crepe paper. 310,363–4; Feb. 20; Serial Nos. 342,752–3; published Dec. 5, 1933. Class 37.

Fox, M. Ewing, & Co., assignor to M. Ewing Fox Co., Inc., New York, N. Y. Water-paint. 94,898; renewed Jan. 13, 1934.

Fox, M. Ewing, & Co., assignor to M. Ewing Fox Co., Inc., New York, N. Y. Calcimine or water-paint. 94,899; renewed Jan. 13, 1934.

Gerben—Hecht Rim Wheel Corp., New York, N. Y. Automobile accessory. 310,299; Feb. 20; Serial No. 341,222; published Dec. 12, 1933. Class 19.

Gillette Safety Razor Company, Boston, Mass. Safety razor blades. 310,322; Feb. 20; Serial No. 342,267; published Dec. 12, 1933. Class 23.

Golf Ball, Inc., Chicago, Ill. Golf balls. 310,352; Feb. 20; Serial No. 340,841; published Nov. 28, 1933. Class 22.

Goodwin Company, The. (See Nethelm, Herman, assignor.)

Goodyear Rubber Co., assignor to John B. Watson, San Francisco, Calif. Rubber hose. 96,962; renewed May 12, 1934.

Great Bear Spring Company, New York, N. Y. Ice cooled or electrically operated water cooler. 310,331; Feb. 20; Serial No. 335,865; published Dec. 12, 1933. Class 31.

Guedes, Miguel de Souza, & Irmão Ldn., Oporto, Portugal. Wines. 310,393; Feb. 20. Class 47.

Hamilton Watch Company, Lancaster, Pa. Watches and clocks. 310,343; Feb. 20; Serial No. 338,776; published Dec. 12, 1933. Class 27.

Hollister Drug Company, by change of name to Hollister Laboratories, Inc., Madison, Wis. Medicinal preparation. 96,017; renewed Mar. 31, 1934.

Homer, Lorin L., and H. Price, receivers of Chocco-Yeast Inc., Springfield, Mass. Chocolate yeast candy. 310,315; Feb. 20; Serial No. 342,536; published Dec. 5, 1933. Class 46.

Illinois Iron & Bolt Co., Carpentersville, Ill. Anvils. 310,330; Feb. 20; Serial No. 341,924; published Dec. 12, 1933. Class 14.

Insular Sugar Refining Corp., Manila, P. I., and New York, N. Y. Sugar. 310,380; Feb. 20. Class 46.

Interstate Cotton Oil Refining Co., Sherman, Tex. Lard substitute. 96,419; renewed Apr. 21, 1934.

Italian Musical String Co., New York, N. Y. Gut strings for musical instruments. 94,555; renewed Dec. 16, 1933.

Jahncke, Evelyn, New Orleans, La. Ladies' hand bags. 310,379; Feb. 20. Class 3.

Jenkins Bros., New York, N. Y. Jar rings. 310,386; Feb. 20. Class 35.

Keystone Wire Matting Co., Beaver Falls, Pa. Wooden matting. 96,683; renewed Apr. 28, 1934.

Kresge, S. S., Company, Detroit, Mich. Fish foods. 310,324; Feb. 20; Serial No. 342,186; published Dec. 5, 1933. Class 46.

Landon, A. et M., to Societe Anonyme Produits Jean Vincent Bully, Paris, France, successor. Toilet water. 94,647; renewed Dec. 23, 1933.

Landowne, J., Company, Inc., New York, N. Y. Toy. 310,325; Feb. 20; Serial No. 342,225; published Dec. 12, 1933. Class 22.

Laro, J. L., Co. (See Cavallaro, John L.)

Lees Mfg. Co., The, Westport, Conn., and New York, N. Y. Threads and yarns. 97,335; renewed June 2, 1934.

Lees Mfg. Co., The, Westport, Conn., and New York, N. Y. Twines and cords. 97,544; renewed June 9, 1934.

Liebich, G. J., Co., Chicago, Ill. Wood filler. 310,344; Feb. 20; Serial No. 339,466; published Dec. 5, 1933. Class 16.

Lion Manufacturing Corporation, Chicago, Ill. Beverage cooling and dispensing cabinets. 310,351; Feb. 20; Serial No. 340,651; published Dec. 12, 1933. Class 31.

Mack, Edward F., New York, N. Y. Series of cartoons. 310,353; Feb. 20; Serial No. 340,745; published Dec. 5, 1933. Class 38.

Macy, R. H., & Co., Inc., New York, N. Y. Wines. 310,374; Feb. 20; Serial No. 343,179; published Dec. 12, 1933. Class 47.

Malachoff, David J., doing business as Dason Products Company, Washington, D. C. Metal polish. 310,312; Feb. 20; Serial No. 342,589; published Dec. 12, 1933. Class 4.

Marks, Maurice, New York, N. Y. Soups. 310,333; Feb. 20; Serial No. 336,011; published Dec. 12, 1933. Class 4.

Martinazzi, E., & Co., to E. Martinazzi & Co., Turin, Italy, successor. Bitters. 40,439, renewed May 26, 1933.

McNamara, Michael, assignor, by mesne assignments, to Sealerine Products Company, Inc., Detroit, Mich. Liquid first-coater in wooden or metal packages. 94,561; renewed Dec. 16, 1933.

Morrison, Egbert R., Cleveland Heights, Ohio. Maps or charts. 310,376; Feb. 20; Serial No. 333,559; published Dec. 5, 1933. Class 38.

Muller, Gustav, New York, N. Y. Sparkling wines. 310,318; Feb. 20; Serial No. 342,398; published Dec. 12, 1933. Class 47.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 95,713; renewed Mar. 3, 1934.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 95,926; renewed Mar. 24, 1934.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 95,928; renewed Mar. 24, 1934.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 96,161; renewed Apr. 7, 1934.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit 96,166–7; renewed Apr. 7, 1934.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 96,170–1; renewed Apr. 7, 1934.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 96,820; renewed May 5, 1934.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 97,166; renewed May 19, 1934.

National Carbon Company, Inc. (See Beacon Miniature Electric Company, assignor.)

National Electric Products Corporation, Pittsburgh, Pa. Wires and cables. 310,378; Feb. 20. Class 21.

National Foam System, Inc., Philadelphia, Pa. Metal compositions or alloys. 310,306; Feb. 20; Serial No. 331,227; published Dec. 12, 1933. Class 14.

National Pure Water Corporation, Des Moines, Iowa. Purified or distilled water. 310,295; Feb. 20; Serial No. 341,637; published Dec. 12, 1933. Class 45.

National Vulcanized Fibre Company, Wilmington, Del. Spools for threads and yarns. 310,365; Feb. 20; Serial No. 342,848; published Dec. 12, 1933. Class 2.

Nethelm, Herman, Newark, N. J., assignor, by mesne assignments, to The Goodwin Company, Los Angeles, Calif. Cleaning or polishing compound. 41,953; renewed Jan. 26, 1934.

Nopco Laboratories, Inc., Harrison, N. J. Cod-liver oil and vitamine. 310,335; Feb. 20; Serial No. 337,082; published Aug. 8, 1933. Class 6.

Nott, W. S., Company, Minneapolis, Minn. Leather belting. 96,987; renewed May 12, 1934.

Ohio Cushion Plate Company, The, Cleveland, Ohio. Clutch parts and machines for assembling and rebuilding clutches. 310,385; Feb. 20. Class 23.

Oneida Community Limited, Sherrill and Oneida, N. Y., Northampton, Mass., and Niagara Falls and Toronto, Ontario, Canada. Knives, forks, spoons, etc. 310,375; Feb. 20; Serial No. 333,602; published Dec. 12, 1933. Class 23.

Oratone Company, The, as assignee of The Allan Chemical Co., Louisville, Ky., assignor, by mesne assignments, to The Oratone Company, Buffalo, N. Y. Dentifrice. 94,540; renewed Dec. 16, 1933.

Parker Brothers Inc., Portland, Maine, and Salem, Mass. Card game. 310,354; Feb. 20; Serial No. 342,666; published Dec. 12, 1933. Class 22.

Patterson Drug Company, Inc., Lynchburg, Va. Emulsion of petroleum compound. 96,890; renewed May 12, 1934.

Peckinpaugh, E. H., doing business as E. H. Peckinpaugh Company, Chattanooga, Tenn. Fish lures. 310,373; Feb. 20; Serial No. 343,251; published Dec. 12, 1933. Class 22.

Pioneer Rubber Mills. (See Bowers Rubber Company.)

Plymouth Cordage Company, Plymouth, Mass. Rope and twine. 95,144; renewed Feb. 3, 1934.

Price, Harry. (See Homer, L. L., and Price.)

Prieur, Alfred, doing business as Ch. & A. Prieur, Vertus, France. Wines and champagne. 310,342; Feb. 20; Serial No. 339,325; published Dec. 12, 1933. Class 47.

Quick Service Box Company, Inc., New York, N. Y. Paper board wardrobe closets. 310,359; Feb. 20; Serial No. 342,704; published Dec. 12, 1933. Class 2.

Quick Service Box Company, Inc., New York, N. Y. Paper-board set-up toy play houses. 310,362; Feb. 20; Serial No. 342,705; published Dec. 12, 1933. Class 22.

Reynolds Displamor Corp., Chicago, Ill. Machine which automatically displays twenty-four garments or other articles in rotation. 310,296; Feb. 20; Serial No. 341,741; published Dec. 12, 1933. Class 32.

Rhynearson, Norval L., Anderson, Ind. Files. 310,327; Feb. 20; Serial No. 342,136; published Dec. 12, 1933. Class 23.

Rising, H. D., Paper Company, to Rising Paper Company, Housatonic, Mass., successor. Flat writing paper. 96,995; renewed May 12, 1934.

Roebling's, John A., Sons Co., Trenton, N. J. Wire. 41,844; renewed Jan. 5, 1934.

Royal Baking Powder Company, New York, N. Y. Pudding and pie filling. 310,307; Feb. 20; Serial No. 318,957; published Dec. 12, 1933. Class 46.

Royal Baking Powder Company, New York, N. Y. Pudding and pie filling. 310,310; Feb. 20; Serial No. 318,956; published Dec. 12, 1933. Class 46.

Saarbach, Eduard, & Co., Mayence-on-Rhine, Germany. Wines. 310,372; Feb. 20; Serial No. 343,138; published Dec. 12, 1933. Class 47.

Samoline Corporation. (See United Supply Company.)

Schandein & Lind Co., Philadelphia, to Schandein & Lind Co., Norristown, Pa. Candy. 94,327; renewed Nov. 25, 1933.

Schmidt, Carl E., & Son, Farina, Ill. Whole wheat cereal. 310,387; Feb. 20. Class 46.

Schultheiss-Patzenhofer Brauerei-Aktiengesellschaft, Berlin, Germany. Malt beverages. 310,334; Feb. 20; Serial No. 337,401; published Dec. 12, 1933. Class 48.

Schultheiss-Patzenhofer Brauerei-Aktiengesellschaft, Berlin, Germany. Malt beverages. 310,336; Feb. 20; Serial No. 337,443; published Dec. 12, 1933. Class 48.

Schumacher, Hans H., Alhambra, Calif. Honey. 310,328; Feb. 20; Serial No. 342,022; published Dec. 5, 1933. Class 46.

Schweizerische Seidengazefabrik A. G., Zurich, Switzerland. Bolting-cloth. 97,366; renewed June 2, 1934.
Sealerine Products Company, Inc. (See McNamara, Michael, assignor.)
Security Advertising Coupon Company, Decatur, Ill. Coupons. 310,341; Feb. 20; Serial No. 338,229; published Dec. 12, 1933. Class 38.
Sedgwick Machine Works, Inc., Poughkeepsie and New York, N. Y. Dumbwaiters and parts thereof. 310,337; Feb. 20; Serial No. 337,359; published Dec. 12, 1933. Class 23.
Societe Anonyme Alliance Vinicole de Bourgogne, Bourgogne, France. Still and sparkling wines. 310,357–8; Feb. 20; Serial Nos. 342,671–2; published Dec. 12, 1933. Class 47.
Societe Anonyme Produits Jean Vincent Bully. (See Landon, A. et M.)
Sollade, Inc., Lantana, Fla. Fertilizers. 310,292; Feb. 20; Serial No. 342,016; published Dec. 12, 1933. Class 10.
Spirella Company, The, Meadville, Pa., assignor to The Spirella Company Incorporated, Niagara Falls, N. Y. Clothing. 95,791; renewed Mar. 10, 1934.
Spirella Company, The, Meadville, Pa., assignor to The Spirella Company Incorporated, Niagara Falls, N. Y. Extenders, forms, supporters, etc. 95,792; renewed Mar. 10, 1934.
Spirella Company, The, Meadville, Pa., assignor to The Spirella Company Incorporated, Niagara Falls, N. Y. Clothing. 95,793; renewed Mar. 10, 1934.
Spirella Company, Meadville, Pa., assignor to The Spirella Company Incorporated, Niagara Falls, N. Y. Extenders, forms, supporters, etc. 95,794; renewed Mar. 10, 1934.
Spirella Company, The, Meadville, Pa., assignor to The Spirella Company Incorporated, Niagara Falls, N. Y. Surgical bandages and belts, etc. 95,954–5; renewed Mar. 24, 1934.
Stackpole Carbon Company, St. Marys, Pa. Carbon graphite and metal graphite brushes and contacts, carbon battery fillers, etc. 310,388; Feb. 20. Class 21.
Stevenson-Benko Co., Chicago, Ill. Catsups, vinegars, jellies, etc. 310,309; Feb. 20; Serial No. 318,259; published Dec. 5, 1933. Class 46.
Stewart, John H., Dundee, Scotland, to Alexander Stewart & Son of Dundee (1924) Limited, London, England, successor. Blended whisky. 95,959; renewed Mar. 24, 1934.
Stone, Mamie W. (See Wray, Mamie E.)
Thor Manufacturing Company, Inc., Albany, N. Y. Prepared pancake flour. 310,332; Feb. 20; Serial No. 336,519; published Dec. 12, 1933. Class 46.
Tillicum Sales Corporation, doing business as Tillicum, Inc., New York, N. Y. Wooden toys. 310,368; Feb. 20; Serial No. 342,985; published Dec. 12, 1933. Class 22.
Trade Laboratories, Inc., The, Newark, N. J. Shaving cream. 310,391; Feb. 20. Class 4.
Twin City Shellac Co. Inc., Brooklyn, N. Y. Paints, varnishes, shellac, etc. 310,347; Feb. 20; Serial No. 339,592; published Dec. 5, 1933. Class 16.
Tyler Syrup Company, Inc., Tyler, Tex. Table syrup. 310,319; Feb. 20; Serial No. 342,460; published Dec. 5, 1933. Class 46.
United States Electrical Manufacturing Company, Los Angeles, Calif. Electrical power units. 310,382–3; Feb. 20. Class 21.
United Supply Company, New York, N. Y., to Samoline Corporation, Chicago, Ill., successor. Cleaning material for wood, metal, etc. 93,501; renewed Sept. 16, 1933.
Universal Credit Corporation, Detroit, Mich. Letterheads and blank forms. 310,338; Feb. 20; Serial No. 337,707; published Dec. 5, 1933. Class 37.
Universal Signs Corporation, New York, N. Y. Advertising signs constructed of glass. 310,303; Feb. 20; Serial No. 331,657; published Dec. 12, 1933. Class 50.
Valley Paper Company, Holyoke, Mass. Paper. 310,300; Feb. 20; Serial No. 341,350; published Dec. 12, 1933. Class 37.
Van Vleck, Howard, doing business as J. & H. Van Vleck, Westernville, N. Y. Limburger cheese. 310,293; Feb. 20; Serial No. 341,881; published Dec. 5, 1933. Class 46.
Washington Post Publishing Company, The, Washington, D. C. Title for a column appearing in The Washington Post. 310,366; Feb. 20; Serial No. 342,773; published Dec. 5, 1933. Class 38.
Watson, John B. (See Goodyear Rubber Co., assignor.)
Wenzel, Paul M., Philadelphia, Pa. Chemical dental preparation. 94,966; renewed Jan. 13, 1934.
Wray, Mamie E., St. Louis, to Mamie W. Stone, Sullivan, Mo. Furniture cleaning and polishing liquid compound. 93,404; renewed Sept. 9, 1933.
Zellstofffabrik Waldhof, Mannheim-Waldhof, Germany. Pasteboard, cardboard, writing paper, etc. 310,308; Feb. 20; Serial No. 328,198; published Dec. 5, 1933. Class 37.
Zucker, Stein & Co., Newark, N. J. Wines. 310,370; Feb. 20; Serial No. 343,100; published Dec. 12, 1933. Class 47.

LIST OF REGISTRANTS OF LABELS

Bird & Son, Inc., East Walpole, Mass. Skoots. For Shoes. 43,252; Feb. 20.
Bloomer Bros. Company, Newark, N. Y. Ice Cream Design No. 537. For Ice Cream. 43,253; Feb. 20.
Coffee Refining Co., San Diego, Calif. C. R. C. Quick Coffee. For Coffee. 43,254; Feb. 20.
Elizabeth Brewing Corporation, Elizabeth, N. J. Breidt's. For Beer. 43,255; Feb. 20.
Jefferson Island Sa't Co., Inc., Louisville, Ky. Jefferson Island Hexagon Salt. For Salt. 43,256; Feb. 20.
Kurlash Company, Inc., The, Rochester, N. Y. Kurlash. For Eyelash Curler. 43,257; Feb. 20.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. CB 448. For Angel Food. 43,258; Feb. 20.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. CB 444. For Devil's Food. 43,259; Feb. 20.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. CB 445. For Coffee Cakes. 43,260; Feb. 20.
Lambooy Label and Wrapper Co., Lambooy, Mich. CB 447. For Tea Rolls. 43,261; Feb. 20.
Morris Bakery. (See Shumofsky, Morris.)
Newark Paraffine & Parchment Paper Company, Newark, N. J. Flavor-Keep Refrigerator Food Bags. For Bags. 43,262; Feb. 20.
Newark Paraffine & Parchment Paper Company, Newark, N. J. Flavor-Keep Sandwich Bags. For Bags. 43,263; Feb. 20.
Newark Paraffine & Parchment Paper Company, Newark, N. J. Flavor-Keep Utility Food Bags. For Bags. 43,264; Feb. 20.
Purox Chemical Co., New York, N. Y. Purox. For a Liquid Cleaning and Washing Compound. 43,265; Feb. 20.
Rex Research Corporation, Toledo, Ohio. Rex Fly Spray. For a Fly Spray. 43,266; Feb. 20.
Shef, Irving, doing business as Shef Manufacturing Company, Union City, N. J. Shefco Vaporizing Crystals. For Chemical Crystal for Moth Preventative Purposes and Deodorant Purposes. 43,267; Feb. 20.
Shumofsky, Morris, doing business as Morris Bakery, Bridgeport, Conn. Gold Seal Bread. For Bread. 43,268; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Sour Pickles. 43,269; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Sweet Pickles. 43,270; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Sweet Mixed Pickles. 43,271; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Processed Dill Pickles. 43,272; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Sweet Chow Chow. 43,273; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Sour Chow Chow. 43,274; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Sweet Relish. 43,275; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Mustard. 43,276; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Mayonnaise. 43,277; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Salad Dressing. 43,278; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. For Sandwich Spread. 43,279; Feb. 20.
Standard Brands Incorporated, New York, N. Y. Stanbi. Chase and Sanborn's Louisiana Roast. For Coffee and Chicory. 43,280; Feb. 20.

LIST OF REGISTRANTS OF PRINTS

Firestone Tire & Rubber Company, The, Akron, Ohio. Firestone Spark Plugs. For Spark Plugs. 14,599; Feb. 20.
Firestone Tire & Rubber Company, The, Akron, Ohio. Merry Christmas. For Tires, Spark Plugs, Radiator Anti-Freeze, and Storage Batteries. 14,600; Feb. 20.
General Mills, Inc., Minneapolis, Minn. Now! A New, Amazingly Simple Way to Make Chicken Pie. For Biscuit Flour. 14,601; Feb. 20.
Kurlash Company, Inc., The, Rochester, N. Y. Kurlash Gives Your Lashes an Enchanting Curl. For Eyelash Curler. 14,602; Feb. 20.
Mlle. Jeanne—Paris, Inc., New York, N. Y. A Truly Merry Christmas. For Hats. 14,603; Feb. 20.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Cartons, Empty. Derst Baking Company. 310,360; Feb. 20; Serial No. 342,690; published Dec. 5, 1933.
Envelopes or bags. Brown Paper Goods Company. 310,316; Feb. 20; Serial No. 342,520; published Dec. 12, 1933.
Spools for thread and yarns. National Vulcanized Fibre Company. 310,365; Feb. 20; Serial No. 342,848; published Dec. 12, 1933.
Wardrobe closets, Paperboard. Quick Service Box Company. 310,359; Feb. 20; Serial No. 342,704; published Dec. 12, 1933.

CLASS 3

Bags, Ladies' hand. E. Jahncke. 310,379; Feb. 20.

CLASS 4

Cleaning material for wood, metal, etc. United Supply Company. 93,501; renewed Sept. 16, 1933.
Cleaning or polishing compounds. H. Netheim. 41,953; renewed Jan. 26, 1934.
Metal polish. D. J. Malachoff. 310,312; Feb. 20; Serial No. 342,589; published Dec. 12, 1933.
Shaving cream. Trade Laboratories, Inc. 310,391; Feb. 20.
Soap, cleaner, shoe dressings, and shoe wax. Edgar Rice Burroughs, Inc. 310,356; Feb. 20; Serial No. 342,637; published Dec. 12, 1933.
Soap, Toilet. Bourjois, Inc. 310,371; Feb. 20; Serial No. 343,146; published Dec. 12, 1933.
Soaps. M. Marks. 310,333; Feb. 20; Serial No. 336,011; published Dec. 12, 1933.

CLASS 6

Cod-liver oil and vitamine. Nopco Laboratories, Inc. 310,335; Feb. 20; Serial No. 337,082; published Aug. 8, 1933.
Dentifrice. Oratone Company. 94,540; renewed Dec. 16, 1933.
Emulsion of petroleum compound. Patterson Drug Company. 96,990; renewed May 12, 1934.
Medicinal preparation. J. F. Conroy. 310,320; Feb. 20; Serial No. 342,338; published Nov. 28, 1933.
Medicinal preparation. Hollister Drug Company. 96,017; renewed Mar. 31, 1934.
Toilet water. A. et M. Landon. 94,647; renewed Dec. 23, 1933.

CLASS 7

Rope and twine. Plymouth Cordage Company. 95,144; renewed Feb. 3, 1934.
Twines and cords. Lees Mfg. Co. 97,544; renewed June 9, 1934.

CLASS 10

Fertilizer, Plant. Henry A. Fischel, Inc. 310,326; Feb. 20; Serial No. 342,127; published Dec. 12, 1933.
Fertilizers. Sollade, Inc. 310,292; Feb. 20; Serial No. 342,016; published Dec. 12, 1933.

CLASS 12

Windows. Austral Window Company. 94,586; renewed Dec. 23, 1933.

CLASS 14

Anvils. Illinois Iron & Bolt Co. 310,330; Feb. 20; Serial No. 341,924; published Dec. 12, 1933.
Metal compositions or alloys. National Foam System Inc. 310,306; Feb. 20; Serial No. 331,227; published Dec. 12, 1933.
Wire. John A. Roebling's Sons Co. 41,844; renewed Jan. 5, 1934.

CLASS 16

Calcimine or water-paint. M. Ewing Fox & Co. 94,899; renewed Jan. 13, 1934.
Filler for cracks and crevices, Wood. G. J. Liebich Co. 310,344; Feb. 20; Serial No. 339,466; published Dec. 5, 1933.
Liquid compound, Furniture cleaning and polishing. M. E. Wray. 93,404; renewed Sept. 9, 1933.
Liquid first-coater in wooden or metal packages. M. McNamara. 95,561; renewed Dec. 16, 1933.
Paint. Elliott Paint & Varnish Co. 310,384; Feb. 20.
Paint colors, Process. Ault & Wiborg Carbon & Ribbon Co. 310,301; Feb. 20; Serial No. 341,011; published Dec. 5, 1933.
Paint, Water. M. Ewing Fox & Co. 94,898; renewed Jan. 13, 1934.
Paints, varnishes, shellacs, etc. Twin City Shellac Co. Inc. 310,347; Feb. 20; Serial No. 339,592; published Dec. 5, 1933.
Polishes, Wax wood. R. L. Blackman. 310,323; Feb. 20; Serial No. 342,306; published Dec. 5, 1933.

CLASS 19

Automobile accessory. Gerben-Hecht Rim Wheel Corp. 310,299; Feb. 20; Serial No. 341,222; published Dec. 12, 1933.
Trailer, Commercial. Curtiss Aerocar Company. 310,313; Feb. 20; Serial No. 342,610; published Dec. 12, 1933.

CLASS 21

Carbon graphite and metal graphite brushes and contacts, carbon battery fillers, etc. Stackpole Carbon Company. 310,388; Feb. 20.
Electric flash-light lamps. Beacon Miniature Electric Company. 94,978; renewed Jan. 20, 1934.
Electrical power units. United States Electrical Manufacturing Company. 310,382–3; Feb. 20.
Wires and cables. National Electric Products Corporation. 310,378; Feb. 20.

CLASS 22

Fish lures. E. H. Peckinpaugh. 310,373; Feb. 20; Serial No. 343,251; published Dec. 12, 1933.
Fishing rods and supplies. Florida Fishing Tackle Mfg. Co. Inc. 310,314; Feb. 20; Serial No. 342,534; published Dec. 12, 1933.
Game, Card. Parker Brothers Inc. 310,354; Feb. 20; Serial No. 342,666; published Dec. 12, 1933.
Golf balls. Golf Ball, Inc. 310,352; Feb. 20; Serial No. 340,841; published Nov. 28, 1933.
Toy. J. Landowne Company. 310,325; Feb. 20; Serial No. 342,225; published Dec. 12, 1933.
Toy play houses, Paperboard set-up. Quick Service Box Company. 310,302; Feb. 20; Serial No. 342,705; published Dec. 12, 1933.
Toys, Wooden. Tillicum Sales Corporation. 310,368; Feb. 20; Serial No. 342,985; published Dec. 12, 1933.

CLASS 23

Clutch parts and machines for assembling and rebuilding clutches. Ohio Cushion Plate Company. 310,385; Feb. 20.
Dumbwaiters and parts thereof. Sedgwick Machine Works, Inc. 310,337; Feb. 20; Serial No. 337,359; published Dec. 12, 1933.
Files. N. L. Rhynearson. 310,327; Feb. 20; Serial No. 342,136; published Dec. 12, 1933.
Knives, forks, spoons, etc. Oneida Community Limited. 310,375; Feb. 20; Serial No. 333,602; published Dec. 12, 1933.
Pliers. Champion de Arment Tool Company. 310,389; Feb. 20.
Razor blades, Safety. Gillette Safety Razor Company. 310,322; Feb. 20; Serial No. 342,267; published Dec. 12, 1933.
Saws. Henry Disston & Sons, Incorporated. 95,075; renewed Feb. 3, 1934.

CLASS 27

Watches and clocks. Hamilton Watch Company. 310,343; Feb. 20; Serial No. 338,776; published Dec. 12, 1933.
Watches and parts thereof. Comptoir Général de Vente de la Montre Roskopf, Société Anonyme Vve Chs. Léon Schmid & Cie. 310,346; Feb. 20; Serial No. 339,889; published Dec. 12, 1933.

CLASS 30

Crockery, earthenware, and chinaware. Parker Bros. Incorporated. 310,377; Feb. 20.
Jugs, mugs, earthenware bowls, etc. Edgar Rice Burroughs, Inc. 310,355; Feb. 20; Serial No. 342,642; published Dec. 12, 1933.

CLASS 31

Cabinets. Lion Manufacturing Corporation. 310,351; Feb. 20; Serial No. 340,651; published Dec. 12, 1933.
Cooler, Water. Great Bear Spring Company. 310,331; Feb. 20; Serial No. 335,865; published Dec. 12, 1933.

CLASS 32

Machine which automatically displays twenty-four garments or other articles in rotation. Reynolds Displamor Corp. 310,296; Feb. 20; Serial No. 341,741; published Dec. 12, 1933.
Matting, Wooden. Keystone Wire Matting Co. 96,683; renewed Apr. 28, 1934.

CLASS 34

Heaters. Bridge & Beach Mfg. Co. 310,321; Feb. 20; Serial No. 342,384; published Dec. 12, 1933.
Stoves and furnaces. Estate Stove Company. 310,305; Feb. 20; Serial No. 331,302; published Dec. 12, 1933.

CLASS 35

Belting, Leather. W. S. Nott Company. 96,987; renewed May 12, 1934.
Belts. Dayton Rubber Manufacturing Company. 310,345; Feb. 20; Serial No. 339,451; published Dec. 12, 1933.
Hose, Rubber. Goodyear Rubber Co. 96,962; renewed May 12, 1934.
Hose, Rubber and cotton. Bowers Rubber Company. 42,455; renewed Apr. 19, 1934.
Jar rings. Jenkins Bros. 310,386; Feb. 20.

CLASS 36

Gut stringe for musical string instruments. Italian Musical String Co. 94,555; renewed Dec. 16, 1933.

CLASS 37

Letterheads and blank forms. Universal Credit Corporation. 310,338; Feb. 20; Serial No. 337,767; published Dec. 5, 1933.
Paper. Valley Paper Company. 310,300; Feb. 20; Serial No. 341,350; published Dec. 12, 1933.
Paper, Flat writing. B. D. Rising Paper Company. 96,995; renewed May 12, 1934.
Paper, paper towels, paper napkins, and crepe paper, Toilet. Fort Howard Paper Comany. 310,363–4; Feb. 20; Serial Nos. 342,752–3; published Dec. 5, 1933.
Pasteboard, cardboard, writing paper, etc. Zellstofffabrik Waldhof. 310,308; Feb. 20; Serial No. 328,198; published Dec. 5, 1933.

CLASS 38

Cartoons, Series of E. F. Mack. 310,353; Feb. 20; Serial No. 340,745; published Dec. 5, 1933.
Coupons. Security Advertising Coupon Company. 310,341; Feb. 20; Serial No. 338,229; published Dec. 12, 1933.
Magazine. Business Journals, Inc. 310,317; Feb. 20; Serial No. 342,521; published Dec. 12, 1933.
Maps or charts. E. R. Morrison. 310,376; Feb. 20; Serial No. 333,559; published Dec. 5, 1933.
Title for a column appearing in The Washington Post. Washington Post Publishing Company. 310,366; Feb. 20; Serial No. 342,773; published Dec. 5, 1933.

CLASS 39

Clothing. Spirella Company. 95,791; renewed Mar. 10, 1934.
Clothing. Spirella Company. 95,793; renewed Mar. 10, 1934.
Extenders, forms, supporters, etc. Spirella Company. 95,792; renewed Mar. 10, 1934.
Extenders, forms, supporters, etc. Spirella Company. 95,794; renewed Mar. 10, 1934.
Shirts. William Atkin Co. 310,348; Feb. 20; Serial No. 340,337; published Nov. 21, 1933.

CLASS 42

Bolting-cloth. Schweizerische Seidengazefabrik A.-G. 97,366; renewed June 2, 1934.

CLASS 43

Threads and yarns. Lees Mfg. Co. 97,335; renewed June 2, 1934.

CLASS 44

Dental preparation, Chemical. P. M. Wenzel. 94,966; renewed Jan. 13, 1934.
Manicure implements, sets, and kits. Campana Corporation. 310,367; Feb. 20; Serial No. 343,027; published Dec. 12, 1933.
Surgical bandages and belts, elastic or surgical stockings, etc. Spirella Company. 95,954–5; renewed Mar. 24, 1934.

CLASS 45

Beverages, and syrups, extracts, and concentrates for making the same, Maltless. Bohemian Distributing Co. Ltd. 310,381; Feb. 20.
Water, Purified or distilled. National Pure Water Corporation. 310,295; Feb. 20; Serial No. 341,637; published Dec. 12, 1933.

CLASS 46

Biscuit. National Biscuit Company. 95,713; renewed Mar. 3, 1934.
Biscuit. National Biscuit Company. 95,926; renewed Mar. 24, 1934.
Biscuit. National Biscuit Company. 95,928; renewed Mar. 24, 1934.
Biscuit. National Biscuit Company. 96,161; renewed Apr. 7, 1934.
Biscuit. National Biscuit Company. 96,166–7; renewed Apr. 7, 1934.
Biscuit. National Biscuit Company. 96,170 1; renewed Apr. 7, 1934.
Biscuit. National Biscuit Company. 96,820; renewed May 5, 1934.
Biscuit. National Biscuit Company. 97,166; renewed May 19, 1934.
Candy. Schandein & Lind Co. 94,327; renewed Nov. 25, 1933.
Candy, Chocolate yeast. L. L. Homer and H. Price. 310,315; Feb. 20; Serial No. 342,536; published Dec. 5, 1933.
Catsups, vinegars, jellies, etc. Stevenson-Benko Co. 310,309; Feb. 20; Serial No. 318,259; published Dec. 5, 1933.
Cheese, Limburger. H. Van Vleck. 310,293; Feb. 20; Serial No. 341,881; published Dec. 5, 1933.
Flour. P. Duff & Sons, Inc. 310,294; Feb. 20; Serial No. 341,918; published Dec. 5, 1933.
Flour, Prepared pancake. Thor Manufacturing Company. 310,332; Feb. 20; Serial No. 336,519; published Dec. 12, 1933.
Foods, Bessire & Company. 94,266; renewed Nov. 25, 1933.
Foods, Fish. S. S. Kresge Company. 310,324; Feb. 20; Serial No. 342,186; published Dec. 5, 1933.
Fruits, vegetables, anchovies, etc. Central Co-Operative Wholesale. 310,340; Feb. 20; Serial No. 338,486; published Nov. 28, 1933.
Honey. H. H. Schumacher. 310,328; Feb. 20; Serial No. 342,022; published Dec. 5, 1933.
Lard substitute. Interstate Cotton Oil Refining Co. 96,419; renewed Apr. 21, 1934.
Pudding and pie filling. Royal Baking Powder Company. 310,307; Feb. 20; Serial No. 318,957; published Dec. 12, 1933.
Pudding and pie filling. Royal Baking Powder Company. 310,310; Feb. 20; Serial No. 318,956; published Dec. 12, 1933.
Relish. J. L. Cavallaro. 310,298; Feb. 20; Serial No. 341,476; published Dec. 12, 1933.
Rice. Compañia Primer Moline Arrocero de Cuba, S. A. 310,297; Feb. 20; Serial No. 341,425; published Dec. 12, 1933.
Sugar. Insular Sugar Refining Corp. 310,380; Feb. 20.
Syrup for flavoring food, Rum. Baker Extract Co. 310,304; Feb. 20; Serial No. 332,909; published Dec. 5, 1933.
Syrup, Table. Tyler Syrup Compound. 310,319; Feb. 20; Serial No. 342,460; published Dec. 5, 1933.
Syrups, sugars, etc., Corn. Corn Products Refining Company. 310,350; Feb. 20; Serial No. 340,672; published Dec. 5, 1933.
Wheat cereal food. Carl E. Schmidt & Son. 310,387; Feb. 20.

CLASS 47

Wine, Port. Delaforce Sons & Co. 310,369; Feb. 20; Serial No. 343,114; published Dec. 12, 1933.
Wines. Bohemian Distributing Co. Ltd. 310,311; Feb. 20; Serial No. 342,572; published Dec. 12, 1933.
Wines. P. J. d'Hacse. 310,339; Feb. 20; Serial No. 337,508; published Dec. 12, 1933.
Wines. R. H. Macy & Co. 310,374; Feb. 20; Serial No. 343,179; published Dec. 12, 1933.
Wines. Miguel de Souza Guedes & Irmão Lda. 310,393; Feb. 20.
Wines. Eduard Saarbach & Co. 310,372; Feb. 20; Serial No. 343,138; published Dec. 12, 1933.
Wines. Societe Anonyme Alliance Vinicole de Bourgogne. 310,357–8; Feb. 20; Serial Nos. 342,671–2; published Dec. 12, 1933.
Wines. Zucker, Stein & Co. 310,370; Feb. 20; Serial No. 343,100; published Dec. 12, 1933.
Wines and champagne. A. Prieur. 310,342; Feb. 20; Serial No. 339,325; published Dec. 12, 1933.
Wines, Sparkling. G. Muller. 310,318; Feb. 20; Serial No. 342,398; published Dec. 12, 1933.

CLASS 48

Ales, beers, lagers, stouts, etc. Brewing Corporation of Canada, Limited. 310,329; Feb. 20; Serial No. 342,057; published Dec. 12, 1933.
Beer, Lager. Cumberland Brewing Company of Allegany County, Maryland. 42,441; renewed Apr. 19, 1934.
Beer, lager beer, ale, and porter. Bradford Beer Corporation. 310,361; Feb. 20; Serial No. 342,729; published Dec. 12, 1933.
Malt beverages. James Everard's Companies. 310,349; Feb. 20; Serial No. 340,087; published Dec. 12, 1933.
Malt beverages. Schultheis-Patzenhofer Brauerei-Aktiengesellschaft. 310,334; Feb. 20; Serial No. 337,401; published Dec. 12, 1933.
Malt beverages. Schultheiss-Patzenhofer Brauerei-Aktiengesellschaft. 310,336; Feb. 20; Serial No. 337,443; published Dec. 12, 1933.

CLASS 49

Bitters. E. Marthnazzi & Co. 40,439; renewed May 26, 1933.
Brandy, cognacs. Croizet, Eymard & Cie. 310,392; Feb. 20.
Liquors and cordials. W. S. Berman. 310,390; Feb. 20.
Whiskies. Chapin and Gore. 42,627; renewed May 17, 1934.
Whisky, Blended. J. H. Stewart. 95,959; renewed Mar. 24, 1934.

CLASS 50

Signs. Universal Signs Corporation. 310,303; Feb. 20; Serial No. 331,657; published Dec. 12, 1933.
Table covers. Columbus Coated Fabrics Corporation. 310,302; Feb. 20; Serial No. 341,073; published Dec. 12, 1933.

LIST OF LABELS

Breidt's. For Beer. Elizabeth Brewing Corporation. 43,255; Feb. 20.
CB 444. For Devils Food. Lambooy Label and Wrapper Co. 43,259; Feb. 20.
CB 445. For Coffee Cakes. Lambooy Label and Wrapper Co. 43,260; Feb. 20.
CB 447. For Tea Rolls. Lambooy Label and Wrapper Co. 43,261; Feb. 20.

CB 448. For Angel Food. Lambooy Label and Wrapper Co. 43,258; Feb. 20.
C. R. C. Quick Coffee. For Coffee. Coffee Refining Co. 43,254; Feb. 20.
Chase and Sanborn's Louisiana Roast. For Coffee and Chicory. Standard Brands Incorporated. 43,280; Feb. 20.
Flavor-Keep Refrigeration Food Bags. For Bags. Newark Paraffine & Parchment Paper Company. 43,262; Feb. 20.
Flavor-Keep Sandwich Bags. For Bags. Newark Paraffine & Parchment Company. 43,263; Feb. 20.
Flavor-Keep Utility Food Bags. For Bags. Newark Paraffine & Parchment Paper Company. 43,264; Feb. 20.
Gold Seal Bread. For Bread. M. Shumofsky. 43,268; Feb. 20.
Ice Cream Design No. 537. For Ice Cream. Bloomer Bros. Company. 43,253; Feb. 20.
Jefferson Island Hexagon Salt. For Salt. Jefferson Island Salt Co. 43,256; Feb. 20.
Kurlash. For Eyelash Curler. Kurlash Company. 43,257; Feb. 20.
Purox. For a Liquid Cleaning and Washing Compound. Purox Chemical Co. 43,265; Feb. 20.
Rex Fly Spray. For a Fly Spray. Rex Research Corporation. 43,266; Feb. 20.
Shefco Vaporizing Crystals. For Chemical for Moth Preventative Purposes and Deodorant Purposes. I. Shef. 43,267; Feb. 20.
Skoots. For Shoes. Bird & Son, Inc. 43,252; Feb. 20.
Stanbi. For Sour Pickles. Standard Brands Incorporated. 43,269; Feb. 20.
Stanbi. For Sweet Pickles. Standard Brands Incorporated. 43,270; Feb. 20.
Stanbi. For Sweet Mixed Pickles. Standard Brands Incorporated. 43,271; Feb. 20.
Stanbi. For Processed Dill Pickles. Standard Brands Incorporated. 43,272; Feb. 20.
Stanbi. For Sweet Chow Chow. Standard Brands Incorporated. 43,273; Feb. 20.
Stanbi. For Sour Chow Chow. Standard Brands Incorporated. 43,274; Feb. 20.
Stanbi. For Sweet Relish. Standard Brands Incorporated. 43,275; Feb. 20.
Stanbi. For Mustard. Standard Brands Incorporated. 43,276; Feb. 20.
Stanbi. For Mayonnaise. Standard Brands Incorporated. 43,277; Feb. 20.
Stanbi. For Salad Dressing. Standard Brands Incorporated. 43,278; Feb. 20.
Stanbi. For Sandwich Spread. Standard Brands Incorporated. 43,279; Feb. 20.

LIST OF PRINTS

A Truly Merry Christmas. For Hats. Mlle. Jeanne—Paris, Inc. 14,603; Feb. 20.
Firestone Spark Plugs. For Spark Plugs. Firestone Tire & Rubber Company. 14,599; Feb. 20.
Kurlash Gives Your Lashes an Enchanting Curl. For Eyelash Curler. Kurlash Company. 14,602; Feb. 20.
Merry Christmas. For Tires, Spark Plugs, Radiator Anti-Freeze, and Storage Batteries. Firestone Tire & Rubber Company. 14,600; Feb. 20.
Now! A New, Amazingly Simple Way to Make Chicken Pie. For Biscuit Flour. General Mills, Inc. 14,601; Feb. 20.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF FEBRUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Ernest J. (See Firestone, F. A., Abbott, and Vincent.)
Abbott Laboratories. (See Carter, E. B., and Moore, assignors.)
Aberson, Nathaniel L., Detroit, Mich. Machine for making multiple unit structural slabs. 1,948,087; Feb. 20.
Acheson Graphite Company. (See O'Neil, F. E., and Callahan, assignors.)
Acme Check Company, The. (See Krakau, Harry T., assignor.)
Adam, Frank, Electric Co. (See Adam, Frederick B., assignor.)
Adam, Frederick B., assignor to Frank Adam Electric Co., St. Louis, Mo. Remotely controlled electric switch. 1,948,088; Feb. 20.
Adams, Chester E., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Oil-wax separation system. 1,948,018; Feb. 20.
Adams, James L., jr., assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Apparatus for welding. 1,948,154; Feb. 20.
Adams, William G., Richmond, Va. Razor blade and holder. 1,947,633; Feb. 20.
Adams, William H., assignor to Eastern Finishing Works, Kenyon, R. I. Decorative colors for application to textile fabrics. 1,948,464; Feb. 20.
Ahola, Harold, assignor, by mesne assignments, to Technical Tool Company, Portland, Oreg. Bevel gauge. 1,947,448; Feb. 20.
Ainsworth Manufacturing Corporation. (See Potter, Albert T., assignor.)
Air Reduction Company. (See Deming, George M., assignor.)
Aktiebolaget-Ljungstroms Angturbin. (See Lysholm, Alf, assignor.)
Alborn, Frank G., assignor to The White Motor Company, Cleveland, Ohio. Tire carrier. 1,947,820; Feb. 20.
Alco Products, Incorporated. (See Hope, Harry M., assignor.)
Alco Products, Incorporated. (See Mahoney, John C., assignor.)
Alco Products, Incorporated. (See Wallis, John S., assignor.)
Alden, Herbert W. (See Rockwell, W. F., and Alden.)
Alexander, Robert L., and J. R. McCallum, assignors to The Climax Engineering Company, Clinton, Iowa. Refrigeration machine. 1,948,155; Feb. 20.
Alfaro, Heraclio, East Cleveland, Ohio. Aeronautic training apparatus. 1,947,962; Feb. 20.
Allegheny Steel Company. (See Browne, Vere B., assignor.)
Alleman, Gellert, Wallingford, and A. F. S. Musante, Media, assignors to Sun Oil Company, Philadelphia, Pa. Apparatus for determining critical pressures. 1,947,821; Feb. 20.
Allen, Howard G., Niagara Falls, N. Y., assignor, by mesne assignments, to Boston Wire Stitcher Company, Warwick, R. I. Sealed package. 1,948,089; Feb. 20.
Allen, Norman A. (See Scott, T. R., and Allen.)
Alterson, Louis, New York, N. Y. Buckle. 1,947,690; Feb. 20.
Alterum Kredit-Aktien-Gesellschaft. (See Bartling, Friedrich, assignor.)
Altorfer, Alpheus W., Peoria, Ill. Control means for washing machine roll wringer mechanism. 1,947,576; Feb. 20.
Alvey Conveyor Manufacturing Company. (See Alvey, John M., assignor.)
Alvey Conveyor Manufacturing Company. (See Alvey, J. M., and Worrall, assignors.)
Alvey, John M., New York, N. Y., assignor to Alvey Conveyor Manufacturing Company, St. Louis, Mo. Conveyer. 1,948,090; Feb. 20.
Alvey, John M., New York, N. Y., and R. R. Worrall, Webster Groves, assignors to Alvey Conveyor Manufacturing Company, St. Louis, Mo. Conveyer. 1,948,091; Feb. 20.
American Ball Mill Company. (See Van Pelt, Elmer L., assignor.)
American Bemberg Corporation. (See Hoelkeskamp, Franz, assignor.)
American Brake Company, The. (See Schwentler, Francis E., assignor.)
American Can Company. (See Holloway, William M., assignor.)
American Chain Company, Inc. (See Hall, Preston M., assignor.)
American Chain Company, Inc. (See Rayburn, John R., assignor.)
American Copper & Brass Works. (See Schildman, William F., assignor.)
American Cyanamid Company. (See Cox, George E., assignor.)
American Engineering Company. (See Lamond, Robert C., assignor.)
American Fabrics Company, The. (See Page, Samuel H., assignor.)
American Glanzstoff Corporation. (See Etzkorn, Rudolf, assignor.)
American Lurgi Corporation. (See Mittmann, Paul, assignor.)
American Optical Company. (See Cozzens, Charles O., assignor.)
American Pulverizer Company. (See Elzemeyer, E. E., and Griesedieck, assignors.)
American Sales Book Company. (See Hagemann, Louis F., assignor.)
American Slicing Machine Company. (See Campbell, William J., assignor.)
American Steel Foundries. (See Baselt, Walter H., assignor.)
American Telephone and Telegraph Company. (See Glezen, L. L., and Shackleton, assignors.)
American Telephone and Telegraph Company. (See Schreiber, Ernst H., assignor.)
American Welding & Manufacturing Co., The. (See Meyer, Frank H., assignor.)
Anchor Cap & Closure Corporation. (See Von Till, Louis A., assignor.)
Anderson, Ernst G. K., Evanston, Ill., assignor to Appleton Electric Company. Switch box with plug-in cable connection. 1,947,634; Feb. 20.
Anderson, James W., assignor to Monarch Governor Company, Detroit, Mich. Governor. 1,947,509; Feb. 20.
Anderson, John L., and J. C. Wells, Burkburnett, assignor to Magnolia Petroleum Company, Dallas, Tex. Traveling valve. 1,948,325; Feb. 20.
Anderson, Victor, North Bergen, and D. G. Trutner, North Arlington, assignors to Alfred Hofmann & Company, West New York, N. J. Filament making machine. 1,947,449; Feb. 20.
Andrews, Admiral L., Shawnee, Okla. Trousers support. 1,948,251; Feb. 20.
Angus, Donald J., Indianapolis, Ind. Method and apparatus for producing governed motion at a distance. 1,948,092; Feb. 20.
Ansley, Charlotte E., North Hollywood, Calif. Platen and paper feed for typewriters and the like. 1,947,450; Feb. 20.
Apex Electrical Manufacturing Company, The. (See McCabe, John J., assignor.)
Appleton Electric Company. (See Anderson, Ernst G. K., assignor.)
Arabol Manufacturing Company, The. (See Clegg, John E., assignor.)
Archer, Edgar W. (See Myers, A. A., and Archer.)
Archila, Fulgencia. (See de Carreño, C., and Archila.)
Argonaut Corporation Limited. (See Peress, Joseph S., assignor.)
Armstrong, Walter J., assignor to The Jeffery Manufacturing Company, Columbus, Ohio. Crushing apparatus. 1,947,784; Feb. 20.
Ashby, John T. (See Welch, S. A., Guyler, Ashby, and Boaler.)
Ashley, Carlyle M., South Orange, and V. S. Day, Summit, assignors to Carrier Research Corporation, Newark, N. J. Air conditioning unit. 1,948,156; Feb. 20.
Associated Oil Burner Co. (See Hofstatter, Allen, assignor.)
Asten, Eduard v., Eupen, Belgium. Endless belt and seam construction therefor. 1,948,411; Feb. 20.
Atterbury, Grosvenor, New York, N. Y. Camera. 1,947,510; Feb. 20.
Auperin, Jean G., Brooklyn, N. Y. Automobile locking device. 1,948,196; Feb. 20.
Autogiro Company of America. (See de la Cierva, Juan, assignor.)
Autogiro Company of America. (See Larsen, Agnew E., assignor.)
Autographic Register Company. (See Johnson, Arthur A., assignor.)
Automatic Paper Machinery Co. Inc. (See Marcalus, Nicholas, assignor.)
Autopoint Company. (See Du Bois, Cornelius M., assignor.)
Avery, Alfred H., Malden, assignor to North American Chemical Company, Cambridge, Mass. Shoe bottom filling machine. 1,947,963; Feb. 20.
B. S. A. Tools Limited. (See Ogilvie, William, assignor.)
Bacharach, Eric W., Kansas City, Mo. Compound dry material feeding machine. 1,947,441; Feb. 20.
Baetz, Gottwald. (See Krauch, C., Eyer, Baetz, and Korn.)

Baggett, Henry T., assignor to Hughes Tool Company, Houston, Tex. Plunger lift control device. 1,947,511; Feb. 20.

Bahlke, William H., Hammond, Ind., and E. W. Thiele, assignors to Standard Oil Company, Chicago, Ill. Fractionation system. 1,947,577; Feb. 20.

Bailey, Claude B., Wyandotte, assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Sheet packing. 1,948,252; Feb. 20.

Bailey, William M., Pittsburgh, Pa. Valve plate and making it. 1,947,453; Feb. 20.

Baird, Virgil E., and C. Griffiths, Chicago, Ill., and F. De Marais, Hammond, Ind., assignors to Federal-American Cement Tile Company, Chicago, Ill. Insert for cementitious slabs. 1,948,093; Feb. 20.

Baker, Chester A., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr. Refrigerated cabinet. 1,947,442; Feb. 20.

Baker Ice Machine Co. Inc. (See Baker, Chester A., assignor.)

Baldwin, Pierson C., and F. W. Schweer, Los Angeles, assignor to H. K. Barber, Santa Monica, Calif. Door construction. 1,947,691; Feb. 20.

Ballentine, George K., Los Angeles, Calif. Clothes hanger holder and bag. 1,948,019; Feb. 20.

Bancel, Paul A., Montclair, assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal pump. 1,948,157; Feb. 20.

Banner Rock Corporation. (See Powell, Edward R., assignor.)

Barbade, Pierre, Corbeil, assignor to Etablissements Tripette & Renaud Fils, Paris, France. Apparatus for mechanically preparing gluten from flour. 1,948,453; Feb. 20.

Barber-Colman Company. (See Edgar, John, assignor.)

Barber, George H., New Rochelle, N. Y., assignor to Bond Electric Corporation, Jersey City, N. J. Electric hand lantern. Des. 91,507; Feb. 20.

Barber, Herbert K. (See Baldwin, P. C., and Schweer, assignors.)

Barber, William R., A. G. Natwick, and M. W. Phelps, Camas, Wash., assignors to Crown Willamette Paper Company, San Francisco, Calif. Copperized paper. 1,947,451; Feb. 20.

Barber, William B., A. G. Natwick, and M. W. Phelps, Camas, Wash., assignors to Crown Willamette Paper Company, San Francisco, Calif. Resinate copperized paper. 1,947,452; Feb. 20.

Barden, William S., Stapleton, Staten Island, N. Y., assignor to Radio Corporation of America. Automatic tone control. 1,947,822; Feb. 20.

Bargman, Theodore, Detroit, Mich. Removable core lock. 1,947,443; Feb. 20.

Barnes Drill Company. (See Johnson, Albert M., assignor.)

Barr, Giles V., assignor to Service Station Equipment Company, Conshohocken, Pa. Hose reel. 1,948,158; Feb. 20.

Barr, Walter A., Fort Wayne, Ind., assignor to The Western Gas Construction Company. Automatic control system for gas-making apparatus. 1,948,094; Feb. 20.

Barrett Company, The. (See Miller, Stuart P., assignor.)

Barrett, Glenn J., Grand Rapids, Mich., assignor to Portable Adding Machine Company, New York, N. Y. Automatic signal for adding machines. 1,947,512; Feb. 20.

Bartling, Friedrich, deceased, Hugling, J. Bartling, executrix, assignor to Alterum Kredit-Aktien-Gesellschaft, Berlin, Germany. Manufacture of alkali carbonate or alkali hydroxide, and by-products of ammonia or ammonium salts. 1,947,671; Feb. 20.

Bartling, Jenny, executrix. (See Bartling, Friedrich.)

Barsen, Richard G., Kansas City, Mo. Self-priming pump construction. 1,948,366; Feb. 20.

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Slack adjuster. 1,947,444; Feb. 20.

Bastian-Morley Company. (See Lonergan, Simon J., assignor.)

Battle Creek Food Company. (See Kellogg, J. H., and G. L. and W. K. Teller, assignors.)

Baugh, Hubert O., St. Peterburg, Fla. Dental demonstrating device. 1,948,059; Feb. 20.

Baughman, George W., Pittsburgh, and F. H. Nicholson, Edgewood, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 1,948,197; Feb. 20.

Bausch & Lomb Optical Company. (See Trautmann, Otto E., assignor.)

Bayley, Lee, assignor to The William Bayley Company, Springfield, Ohio. Detention window. 1,948,160; Feb. 20.

Bayley, Lee, Springfield, Ohio, and R. L. Clingerman, Washington, D. C., assignors to The William Bayley Company, Springfield, Ohio. Detention window. 1,948,159; Feb. 20.

Bayley, William, Company, The. (See Bayley, Lee, assignor.)

Bayley, William, Company, The. (See Bayley, L., and Clingerman, assignors.)

Bayley, William, Company, The. (See Zimmerman, Ralph W., assignor.)

Bayley, William D., Springfield, Ohio. Detention sash assembly. 1,948,230; Feb. 20.

Bearden, Sherman H., Cass Station, Ga. Cultivator. 1,948,436; Feb. 20.

Beatty, Ross J. (See Mosfelt, H. T., and Schagerholm, assignors.)

Beck, Karl, Berlin-Charlottenburg, Germany. Improving or modifying acetyl cellulose textile material. 1,947,928; Feb. 20.

Beckman, Hugo, Ohligs, Germany. Manufacture of scissors. 1,947,964; Feb. 20.

Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. System for damping the motion of mechanical devices. 1,947,544; Feb. 20.

Beers, Burton B. (See Labadie, H. H., and Beers.)

Beggs, Paul W., assignor, by mesne assignments, to Jas. P. Marsh Corporation, Chicago, Ill. Coupling device. 1,947,965; Feb. 20.

Begtrup, Edward F., Jersey City, N. J. Rail welding mold. 1,947,966; Feb. 20.

Bell & Howell Company, The. (See Warmisham, Arthur, assignor.)

Bell & Howell Company, The. (See Warmisham, A., and Ciseki, assignors.)

Beloit Iron Works. (See Berry, Earl E., assignor.)

Bemis Bro. Bag Co. (See Gelmer, William J., assignor.)

Bender, Frank M. (See McCormick, J. H., and Bender.)

Bendix Aviation Corporation. (See Prentiss, Augustin M., assignor.)

Bendix Brake Company. (See Mahoney, John P., assignor.)

Bendix Brake Company. (See Sanford, Roy S., assignor.)

Bendix Brake Company. (See Taylor, Eugene V., assignor.)

Bendix Brake Company. (See Thompson, Carl B., assignor.)

Bendix Brake Company. (See Whitworth, Stanley, assignor.)

Benesh, Alvin H., assignor to Chain Belt Company, Milwaukee, Wis. Fluid projector. 1,947,752; Feb. 20.

Bennett, Arthur. (See Stokes, Charles J., assignor.)

Bennett, Charles E., Hawthorne, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Cable joint. 1,947,454; Feb. 20.

Bennett, Charles E., Hawthorne, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Cable construction. 1,947,455; Feb. 20.

Bennett, Moses E., assignor of one-fourth to F. Blackwell and one-fourth to F. Carmon, Detroit, Mich. Spring or resilient wheel. 1,948,412; Feb. 20.

Bergmann, Max, Dresden, Germany. After-treatment of leather. 1,947,513; Feb. 20.

Bergquist, Arthur E., assignor of one-fourth to A. E. Gustafson and one-fourth to A. E. Martenson, Lindstrom, Minn. Cooky caddy. 1,948,326; Feb. 20.

Bergve, Einar, Oslo, Norway. Manufacturing an acid tooth paste. 1,947,635; Feb. 20.

Berlizheimer, David T. (See Stein, Raphael, assignor.)

Bernstein, Maurice, et al. (See Saunders, T., and Castline, assignors.)

Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Paper-making machinery. 1,947,636; Feb. 20.

Berry, Herbert H., London, England. Imitation fuel for electric fires and radiators. 1,947,672; Feb. 20.

Bertsch, Heinrich, assignor to the firm H. Th. Bohme, Aktiengesellschaft, Chemnitz, Saxony, Germany. Preparing esters. 1,947,673; Feb. 20.

Berwick, Jo D., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Mat. 1,948,327; Feb. 20.

Beyer, Robert, Brooklyn, N. Y., assignor to Robert Beyer Corporation. Electric resistance. 1,947,692; Feb. 20.

Beyer, Robert, Corporation. (See Beyer, Robert, assignor.)

Bhagwat, Madhav R., Brooklyn, assignor to Combustion Utilities Corporation, New York, N. Y. Synthetic resin and its production. 1,948,465; Feb. 20.

Biddle, William C. (See Corbin, Elbert A., jr., assignor.)

Biggs, George A., assignor to The James Leffel & Company, Springfield, Ohio. Hydraulic turbine. 1,948,478; Feb. 20.

Biguet, Jacques, Lyon, France. Three-electrode vacuum tube. 1,947,514; Feb. 20.

Birkland, George, St. Louis, Mo. Bar support for concrete construction. 1,947,445; Feb. 20.

Bitler, William P., Nyack, N. Y., assignor to C. P. Byrnes, trustee, Sewickley, Pa. Partial oxidation products. 1,948,161; Feb. 20.

Blackburn, Bryan M., assignor to R. D. Cole Manufacturing Co., Newnan, Ga. Elevated storage tank. Des. 91,508; Feb. 20.

Blackburn, Bryan M., assignor to R. D. Cole Manufacturing Co., Newnan, Ga. Elevated tank. 1,947,515; Feb. 20.

Blackwell, Fred, et al. (See Bennett, Moses E., assignor.)

Blake, Kenneth R., assignor of one-fourth to B. D. Emanuel, Anderson, Ind. Automatic starter for internal combustion engines. 1,948,198; Feb. 20.

Blakemore, T. (See Robinson, Eugene O., assignor.)

Block, David A., et al. (See Block, Morris H., assignor.)

Block, Morris H., assignor to H. Korts, D. A. Block, and P. Kleiger, Denver, Colo. Nursing bottle. 1,947,753; Feb. 20.

Blondel, André E., Paris, France. Device for sounding purposes and for measurements of distance by the reflected sound of a submarine signal received on shipboard. 1,948,253; Feb. 20.

Bonler, William H. (See Welch, S. A., Guyler, Ashby, and Bonler.)

Boca, Joseph, Flint, assignor to General Motors Corporation, Detroit, Mich. Cowl ventilator door. 1,948,283; Feb. 20.

Bock, Alfred C. O., Brooklyn, N. Y., assignor to Sattley Company, Detroit, Mich. Coin handling machine. 1,947,456; Feb. 20.

Bockmühl, Max. (See Lautenschläger, C. L. Bockmühl, and Persch.)

Bockmühl, Max, G. Ehrhart, and L. Stein, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Preparing compounds of the 1-phenyl-2-aminoalcohols-1 se.les hydroxylated in the phenyl nucleus. 1,948,162; Feb. 20.

Bohme, H. Th., Aktiengesellschaft, the firm. (See Bertsch, Heinrich, assignor.)

Bölger, Johan, Amsterdam, Netherlands. Reenforced wire netting. 1,947,754; Feb. 20.

Bolster, Albert W., assignor of two-thirds to Mrs. M. J. Taylor, Placerville, Calif. Control valve. 1,947,637; Feb. 20.

Boman, Tom G. (See Ringenberg, John A., assignor.)

Bond Electric Corporation. (See Barber, George H., assignor.)

Bond, George R., jr., Paulsboro, N. J., and C. W. Davis, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Inhibiting the decomposition of organic compounds. 1,947,578; Feb. 20.

Bone, Herbert L., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 1,947,638; Feb. 20.

Bonnot Company, The. (See Lents, George W., assignor.)

Booth, Earl C. (See Noblitt, Q. G., and Booth.)

Booth, Thomas, Boise, Idaho. Animal trap. 1,948,199; Feb. 20.

Borchers, Alwin, and G. Peiser, assignors to The Brown-Brockmeyer Company, Dayton, Ohio. Electric motor. 1,948,365; Feb. 20.

Borden Company, The. (See Pealer, Robert B., assignor.)

Boren, F ed, assignor to The Swisshelm Veneer Co., Mound City, Ill. Crate. 1,947,446; Feb. 20.

Boston Blacking & Chemical Co. (See Moyer, Charles L., assignor.)

Boston Wire Stitcher Company. (See Cavanagh, John F., assignor.)

Boston Wire Stretcher Company. (See Allen, Howard G., assignor.)

Botham, Arthur R., New York, N. Y., assignor to Coty, Inc., Wilmington, Del. Display stand. Des. 91,509; Feb. 20.

Boughton, Harry E., Lakewood, Ohio, assignor to The Standard Sand & Machine Company, Chicago, Ill. Roll machine for preparing foundry sand. 1,948,328; Feb. 20.

Bourdon, Pierre M., Paris, assignor to Michelin et Cie, Clermont-Ferrand, France. Vehicle wheel and tire. 1,948,060; Feb. 20.

Bovaird and Company. (See Gibson, Jesse G., assignor.)

Bowen, Thomas H., Louisville, Ky. Fastener for connecting high voltage conductors to insulators. 1,948,061; Feb. 20.

Bowers, Edward C., et al., receivers. (See Woodman, Frank, assignor.)

Bowers John F., assignor to Harrisburg Pipe and Pipe Bending Company, Harrisburg, Pa. Producing cylinders. 1,948,487; Feb. 20.

Boyce, Leonard D., Maplewood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 1,947,693; Feb. 20.

Boynton, Arthur J. (See Brassert, H. A., Boynton, and Grilli.)

Boynton, Frederick L., assignor to M. E. Boynton, Sycamore, Ill. Differential gearing. 1,948 095; Feb. 20.

Boynton, Mary E. (See Boynton, Frederick L., assignor.)

Bracewell, Henry. (See Brunet, R. L., Bracewell, and Jenckes.)

Brach, Leon S., East Orange, N. J. Lightening arrester. 1,947,967; Feb. 20.

Bradley-Fitch Company. (See Bradley, Wilson, assignor.)

Bradley, Wilson, Deerwood, assignor to Bradley-Fitch Company, Duluth, Minn. Winning manganese values. 1,947,457; Feb. 20.

Bradt, Merritt B. (See Schneider, E. J., and Bradt.)

Bragg, Caleb S., Palm Beach, Fla., and V W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Brake mechanism for automotive vehicles. 1,947,895; Feb. 20.

Bragg-Kliesrath Corporation. (See Bragg, C. S., and Kliesrath, assignors.)

Brain, George, Tiffin, Ohio, assignor to Standard Sanitary Manufacturing Company. Bolt cap. 1,947,639; Feb. 20.

Brandenburger, Leo, Berlin-Halensee, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Switch position indicator. 1,948,254; Feb. 20.

Brassert, H. A., & Company. (See Brassert, H. A., Boynton, and Grilli, assignors.)

Brassert, Herman A., A. J. Boynton, and J. P. Grilli, assignors to H. A. Brassert & Company, Chicago, Ill. Apparatus for the filtration of air or gases. 1,947,447; Feb. 20.

Bray, Ulric B., Palos Verdes Estates, and C. E. Swift, Huntington Park assignors to Union Oil Company of California, Los Angeles, Calif. Treatment of oils with aluminum. 1,948,163; Feb. 20.

Bray, Ulric B., Los Angeles, and C. E. Swift, Glendale, assignors to Union Oil Company of California, Los Angeles, Calif. Producing lubricating oil. 1,948,164; Feb. 20.

Breitbarth, August H., Valparaiso, Ind. Golf tee holder and carrier. 1,948,284; Feb. 20.

Brescia, Mauro, New York, N. Y. Cover for receptacles. 1,948,285; Feb. 20.

Brey, Harold E., assignor to Koehring Company, Milwaukee, Wis. Crane driving and steering mechanism. 1,947,823; Feb. 20.

Briese, Henry W., Jamaica, N. Y. Cup and saucer and similar articles. 1,947,968; Feb. 20.

Bristol, Cyrus J., assignor to Globe Machinery & Supply Company, Des Moines, Iowa. Automobile lift jack. 1,948,367; Feb. 20.

Broadman, Joseph, New York, N. Y. Protecting documents, newspapers, and the like. 1,947,516; Feb. 20.

Brock, Clarence A. (See Gerhardt, W. F., and Brock.)

Brodersen, Max M., Alhambra, assignor to G. A. Lathrop, Los Angeles, Calif. Earth working implement. 1,947,640; Feb. 20.

Brodkorb, Fritz. (See Giuud, W., Brodkorb, and Klempt.)

Broecker, Lewis C., Bridgeport, Conn., assignor to The Firestone Steel Products Company, Akron, Ohio. Valve parts assembling machine. 1,948,466; Feb. 20.

Broekhuysen, William C., New Haven, Conn., assignor to The Engineering and Research Corporation. Relay. 1,947,641; Feb. 20.

Brogmagem, Irl R., Union City, Ind. Chair. 1,948,200; Feb. 20.

Bronson, Budd, assignor to The Ohio Rubber Company, Cleveland, Ohio. Running board structure. 1,947,824; Feb. 20.

Brooks, Benjamin T., Greenwich, Conn., assignor, by mesne assignments, to Standard Alcohol Company, Wilmington, Del. Obtaining secondary alcohols from acid liquors formed by treating olefines with sulphuric acid. 1,948,286; Feb. 20.

Brooks, Oliver C., New York, N. Y. Razor stropper. 1,948,165; Feb. 20.

Brooks, Shirley V., East Orange, N. J., assignor to Franklin-Williams, Inc. Medicine shelf rack. 1,947,825; Feb. 20.

Brooks, Winfred M., West Orange, N. J. Sealing means. 1,948,255; Feb. 20.

Brosilow, Louis, W. Markoff, and J. Orosz, Chicago, Ill. Electric lamp cord retaining device. 1,947,517; Feb. 20.

Brown-Brockmeyer Company, The. (See Borchers, A., and Peiser, assignors.)

Brown, Vere B., assignor to Allegheny Steel Company, Brackenridge, Pa. Making sucker rods. 1,947,969; Feb. 20.

Brunet, Robert L., Providence, H. Bracewell, Pawtucket, and F. A. Jenckes, Wickford, R. I., assignors, by mesne assignments, to Manville Jenckes Corporation. Winding machine. 1,948,438; Feb. 20.

Brunette, Joseph W., Detroit, Mich. Fluid regulating and cut-off valve. 1,948,062; Feb. 20.

Brut, Georges F., Tonneins, France. Carburetor. 1,947,583; Feb. 20.

Buc, Hyym E., Roselle, and R. Schuler, Elizabeth, N. J., assignor to Standard Oil Development Company. Production of alkyl phenols. 1,948,287; Feb. 20.

Buckeye Aluminum Company, The. (See Parker, Earl S., assignor.)

Buckingham, Benjamin J., Ravinia, Ill. Ball teeing device. 1,948,020; Feb. 20.

Bucknam, Worthy C., and G. I. Jones, Buffalo, N. Y., assignors to The Linde Air Products Company. Multiple flame welding nozzle. 1,947,755; Feb. 20.

Büdscheid, Michael, Cologne-Holweide, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Electric power cable. 1,948,439; Feb. 20.

Bullard Company, The. (See Tillman, John R., assignor.)

Burcky, Charles W., and A. H. Reiber, assignors to Teletype Corporation, Chicago, Ill. Telegraph system. 1,947,694; Feb. 20.

Burdick, Charles L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fertilizer manufacture. 1,948,454; Feb. 20.

Burkhardt, Chandos, Canton, assignor to The Hoover Company, North Canton, Ohio. Clamping device. 1,948,329; Feb. 20.

Burkhardt, Otto M., assignor to Thompson Products, Inc., Cleveland, Ohio. Mechanical clearance regulator. 1,948,063; Feb. 20.

Burton, Warren D., assignor to Combustioneer, Inc., Goshen, Ind. Feeding device for stokers. 1,948,021; Feb. 20.

Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake beam. 1,947,579; Feb. 20.

Butler Manufacturing Company. (See Norquist, V. C., and Treanor, assignors.)

Butusov, Emil P., Hollywood, Ill. Carburetor. 1,947,518; Feb. 20.

By-Products Recoveries, Inc. (See Taylor, Joseph B., assignor.)

Byrnes, C. P., trustee. (See Bitler, William P., assignor.)

C-S Engineering Company. (See Schellens, Eugene L., assignor.)

Cadman, Addi B., Beloit, Wis., assignor to Warner Electric Brake Corporation, South Beloit, Ill. Mounting of brake anchors. 1,947,756; Feb. 20.

Calcott, William S., and W. A. Douglass, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compounding rubber. 1,947,458; Feb. 20.
Callahan, Joseph F. (See O'Neil, F. E., and Callahan.)
Callender's Cable and Construction Company. (See Hill, Harry, assignor.)
Calvert, William C., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Preparation of aromatic amines. 1,948,330; Feb. 20.
Camines, Harold, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Oil pressure relief valve. 1,948,479; Feb. 20.
Campbell, John D., assignor to Jay-Dee Manufacturing Co., Ltd., Tustin, Calif. Brake mechanism. 1,947,826; Feb. 20.
Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Power cleaver. 1,947,896; Feb. 20.
Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,947,897; Feb. 20.
Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,947,898; Feb. 20.
Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Sharpener for slicing machines. 1,947,899. Feb. 20.
Capstan Glass Company. (See McNamara, William L., assignor.)
Caradine Hat Company. (See Wittcoff, Edward, assignor.)
Carlson, Richard E., Downers Grove, Ill., assignor to Western Electric Company, Incorporated. Manufacturing electrostatic condensers. 1,948,331; Feb. 20.
Carmon, Fred, et al. (See Bennett, Moses E., assignor.)
Carola, Charles, deceased, by C. V. Carola, administratrix, New York, N. Y. Receptacle and cover operating mechanism therefor. 1,948,413; Feb. 20.
Carola, Clara V., administratrix. (See Carola, Charles.)
Carpenter, Charles E., Chicago, Ill. Doughnut machine and the like. 1,948,022; Feb. 20.
Carr, David M., Brooklyn, N. Y. System of metering. 1,948,368; Feb. 20.
Carr-Lowrey Glass Co. (See Leach, Walter R., assignor.)
Carrier Research Corporation. (See Ashley, C. M., and Day, assignors.)
Carson, Lee L., assignor of one-half to G. T. Dunn, and one-half to L. M. Carson, San Diego, Calif. Pump valve. Re19,088; Feb. 20.
Carson, Lillie M., et al. (See Carson, Lee L., assignor.)
Carter Carburetor Corporation. (See Boyce, Leonard D., assignor.)
Carter, Edgar B., and E. E. Moore, Waukegan, assignors to Abbott Laboratories, North Chicago, Ill. Medicinal oil solutions. 1,947,519; Feb. 20.
Carter, Ray M., and W. L. Johnson, Baltimore, Md., assignors to U. S. Industrial Alcohol Co., New York, N. Y. Making sodium ethyl oxalacetate and the product thereof. 1,948,201; Feb. 20.
Carter, Raymond S., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Conveyer belt. 1,948,332; Feb. 20.
Carthew, John W., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Making flexible shaft couplings. 1,947,695; Feb. 20.
Cartter, William G., Monrovia, Calif., assignor to Day & Night Water Heater Co., Ltd. Internal flue for hot water heaters. 1,948,064; Feb. 20.
Case, Francis M., Cleveland Heights, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,948,333; Feb. 20.
Case, J. I., Company. (See Huddle, Edwin F., assignor.)
Case, J. I., Company. (See Krause, Norman R., assignor.)
Case, J. I. Company. (See Rutter, Alvah E., assignor.)
Castline, Jacob. (See Saunders, T., and Castline.)
Casto, Lloyd V., assignor to The Oxford Varnish Corporation, Detroit, Mich. Imitating surfaces. 1,947,459; Feb. 20.
Caterpillar Tractor Co. (See Radford, William H., assignor.)
Cavanagh, John F., Providence, R. I., assignor to Boston Wire Stitcher Company, Portland, Maine. Staple extractor. 1,948,096; Feb. 20.
Cease, Robert R., Nameoki, assignor to General Steel Castings Corporation, Granite City, Ill. Wagon underframe. 1,948,256; Feb. 20.
Celanese Corporation of America. (See Dickie, W. A., and Howarth, assignors.)
Celanese Corporation of America. (See Moss, William H., assignor.)
Celanese Corporation of America. (See Welch, S. A., Guyler, Ashby, and Boaler, assignors.)
Century Electric Co. (See Jones, Thomas B., assignor.)
Chace, W. M., Valve Company. (See Matthews, Howard D., assignor.)
Chain Belt Company. (See Benesh, Alvin H., assignor.)
Chall, Paul. (See Mittasch, A., and Chall.)
Chamberlain Corporation. (See Etten, Nicholas L., assignor.)
Chapman, Robbie C., Greenville, S. C. Ball connecting means. 1,948,202; Feb. 20.
Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Knee-control mechanism for electric sewing machines. 1,947,827; Feb. 20.
Chevillot, Alfred, Gargan Livry, Seine et Oise, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,947,696; Feb. 20.
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chicago Railway Equipment Company. (See Mohun, John L., assignor.)
Chiego, Bernard J. G., Newark, N. J. Preparing food products. 1,947,520; Feb. 20.
Chismar, Andrew, Hartford, Conn. Air cleaning and humidifying device. 1,948,097; Feb. 20.
Church, Harold D., assignor to The White Motor Company, Cleveland, Ohio. Valve actuating mechanism. 1,948,023; Feb. 20.
Church, Harold D., assignor to The White Motor Company, Cleveland, Ohio. Valve actuating mechanism. 1,948,414; Feb. 20.
Cincinnati Grinders Incorporated. (See Isler, Herman, assignor.)
Ciuski, Irving. (See Warmisham, A., and Ciuski.)
Clark, Earl W., Warren, Ohio, assignor, by mesne assignments, to National Manufacturing Company, Sterling, Ill. Sliding door construction. 1,948,065; Feb. 20.
Clark, John L., Bangor, Maine. Bookholder. 1,947,757; Feb. 20.
Clarke, Harry S., assignor to F. Ziebarth, Long Beach, Calif. Light fixture. Des. 91,510; Feb. 20.
Clausing, George, assignor to The Vulcan Corporation, Portsmouth, Ohio. Guide track for wood heel turning machines. 1,948,257; Feb. 20.
Clausing, George, assignor to The Vulcan Corporation, Portsmouth, Ohio. Machine for manufacturing heels for shoes. 1,948,258; Feb. 20.
Clegg, John E., Brooklyn, assignor to The Arabol Manufacturing Company, New York, N. Y. Adhesive and preparing and applying the same. 1,948,334; Feb. 20.
Cleveland Automatic Machine Company. (See Rupple, Harry W., assignor.)
Cleveland Graphite Bronze Company. (See Hopkins, B. F., and Palm, assignors.)
Clifford, Albert M. (See Sebrell, L. B., and Clifford.)
Climax Engineering Company, The. (See Alexander, R. L., and McCallum, assignors.)
Clingerman, Robert L. (See Bayley, L., and Clingerman.)
Clough, Lee E., assignor to The General Tire & Rubber Company, Akron, Ohio. Surface marker. 1,948,335; Feb. 20.
Cochrane, George C., Rochester, N. Y. Copy holder. 1,948,024; Feb. 20.
Cocker Machine and Foundry Company. (See Whitener, E. K., and Suggs, assignors.)
Codney, Arthur O., Cleveland Heights, and D. J. Somerville, South Euclid, assignors to Willard Storage Battery Company, Cleveland, Ohio. Variable resistance device. 1,947,828; Feb. 20.
Cohen, Elias, New York, N. Y. Connecter for implement handles. 1,947,697; Feb. 20.
Cole, Lyndon C., assignor to General Machinery Corporation, Hamilton, Ohio. Lathe drive. 1,947,829; Feb. 20.
Cole, R. D., Manufacturing Co. (See Blackburn, Bryan M., assignor.)
Columbia Phonograph Company. (See Prescott, J. O., and Franck, assignors.)
Columbus Vending Company, The. (See Vogel, Ralph A., assignor.)
Combustion Utilities Corporation. (See Bhagwat, Madhav R., assignor.)
Combustion Utilities Corporation. (See Loebell, H. O., and Klees, assignors.)
Combustioneer, Inc. (See Burton, Warren D., assignor.)
Condenser Corporation of America. (See Danziger, Harold I., assignor.)
Condon, Edward T., New York, N. Y. Combined directional and tail or driving lamp for motor vehicles. Des. 91,551; Feb. 20.
Condon, Edward T., New York, N. Y. Combined directional and tail or driving lamp for motor vehicles. Des. 91,552; Feb. 20.
Condon, Edward T., New York, N. Y. Combined directional and tail or driving lamp for motor vehicles. Des. 91,553; Feb. 20.
Conforti, Carmine M., and F. F. Norden, New York, N. Y. Cuspidor stand. 1,947,970; Feb. 20.
Connery, Alder F. (See Woodward, M. H., and Connery.)
Conradty, Ottmar, Nuremberg, Germany. Holder for incandescent lamps. 1,948,166; Feb. 20.
Conroy, Edward J., New Haven, assignor to International Silver Company, Meriden, Conn. Spoon or other article of flatware. Des. 91,511; Feb. 20.
Consolidated Ashcroft Hancock Company. (See Williston, Belvin T., assignor.)
Consolidated Car-Heating Company. (See Hyatt, Louis C., assignor.)
Construction Materials Patents, Inc. (See Siegfried, Clarence E., assignor.)
Cook, Earle S. (See Fitch, E. R., and Cook.)
Cooper, Rolland M., assignor to The White Motor Company, Cleveland, Ohio. Valve actuating mechanism. 1,948,415; Feb. 20.
Corbin, Elbert A., jr., Swarthmore, assignor of one half to W. C. Biddle, Lansdowne, Pa. Sanitary hutch. 1,947,698; Feb. 20.
Corell, Martin. (See Kraenzlein, G., and Corell.)
Corey, William G., Los Angeles, Calif. Counterbalancing. 1,948,288; Feb. 20.

Cornelius, Louis A., assignor to Wolverine Brass Works, Grand Rapids, Mich. Fitting. 1,947,581; Feb. 20.
Cornwell, Lionel B., New York, N. Y. Vibrating device. 1,948,167; Feb. 20.
Corporation of Edelstahlwerk Boebling Aktiengesellschaft. (See Vorwerk, Paul O. F., assignor.)
Corrall, Herbert, Helensburgh, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lighting device for sewing machines. 1,948,336; Feb. 20.
Costello, Thomas W., Spokane, Wash. Assembly tool. 1,948,203; Feb. 20.
Cottle, Clyde G. (See Kiernan, J. P., Cottle, and Sheehan.)
Coty, Inc. (See Botham, Arthur R., assignor.)
Coulson, Bevis P., jr. (See Emmet, W. L. R., and Coulson, jr.)
Coulson, Bevis P., jr., Schenectady, N. Y., assignor to General Electric Company. Liquid boiler. 1,948,369; Feb. 20.
Coulson, Bevis P., jr., Schenectady, N. Y., assignor to General Electric Company. Elastic fluid generator. 1,948,370; Feb. 20.
Cousins, Alfred W., Westcliff-on-Sea, England. Chiropody foot rest. 1,947,758; Feb. 20.
Coutant, Jay G., New York, N. Y. Pulverized fuel furnace and combustion. 1,947,460; Feb. 20.
Cox, George E., Niagara Falls, assignor to American Cyanamid Company, New York, N. Y. Granulating cyanamide. 1,947,971; Feb. 20.
Cozens, Charles O., assignor to American Optical Company, Southbridge, Mass. Lens strap. Des. 91,554; Feb. 20.
Crane Limited. (See McGrail, Thomas E., assignor.)
Crawford, William E., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Indicating system for welding machines. 1,948,337; Feb. 20.
Crippen, Stuart S., jr., Chicago, Ill. Display holder. Des. 91,512; Feb. 20.
Criqui, Charles A. (See Larkin, Elwood T., assignor.)
Crosland, Edward M., assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Oven for baking. 1,948,440; Feb. 20.
Crown Willamette Paper Company. (See Barber, W. R., Natwick, and Phelps, assignors.)
Cunningham, Edward N., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Twisted fibrous rubber product and making the same. 1,947,759; Feb. 20.
Currie, Ralph P. (See Parrigin, H. P., and Currie.)
Currier, Harry G., jr., Newark, N. J. Ash tray. 1,948,025; Feb. 20.
Curtiss Aeroplane & Motor Company. (See Hathorn, Charles E., asignor.)
Curtiss Company, The. (See Curtiss, John A., assignor.)
Curtiss, John A., assignor to The Curtiss Company, Cleveland, Ohio. Golf green and making the same. 1,948,026; Feb. 20.
Cutler-Hammer, Inc. (See Seeger, E. W., and Lassen, assignors.)
Cutler-Hammer, Inc. (See Tregoning, William C., assignor.)
Cuyler, Robert F., Athens, and F. M. Hartford, Columbus, assignors to Ray-Glo Corporation, Athens, Ohio. Gas heater. 1,947,830; Feb. 20.
Dalgliish, Walter, Glasgow, Scotland. Golf tee. 1,947,674; Feb. 20.
Daniels, Claude H., Wellesley Hills, Mass. Shoe. Des. 91,513; Feb. 20.
Danzer, Catherine, et al, executors. (See Lederer, Anton.)
Dansiger, Harold I., New York, N. Y., assignor to Condenser Corporation of America, Jersey City, N. J. Electrolytic condenser. 1,948,289; Feb. 20.
David, David R., New York, N. Y. Hair-waving apparatus. 1,947,582; Feb. 20.
Davidson, Thomas M., Hatch End, England. Furnace grate. 1,947,831; Feb. 20.
Davis, Alexander R., Charlotte, N. C. Lubricating means for spindles. 1,947,972; Feb. 20.
Davis, Charles H. (See Lueck, H. W., and Davis.)
Davis, Clark W. (See Bond, G. R., jr., and Davis.)
Davis, Francis W. (See Jessup, George W., assignor.)
Davis, Francis W., Waltham, Mass. Hydraulic steering mechanism with remote power unit. 1,947,978; Feb. 20.
Davis, Garland H. B., and J. A. Franceway, Baton Rouge, La., assignors to Standard Oil Development Company. Catalytic process for producing gas rich in hydrogen. 1,948,338; Feb. 20.
Day & Night Water Heater Co. (See Cartter, William G., assignor.)
Day, Vincent S. (See Ashley, C. M., and Day.)
Dayton Synthetic Chemicals, Inc. (See Thomas, Charles A., assignor.)
Debrie, André L. V. C., Paris, France. Cinematographic printing machine. 1,948,066; Feb. 20.
De Carrefio, Celina, and F. Archila, New York, N. Y. Electrical massaging device. 1,948,067; Feb. 20.
De Cew, Judson A., Mount Vernon, N. Y. Apparatus for refining paper stock. 1,947,900; Feb. 20.
Decker, George, assignor to The Philad Company, Cleveland, Ohio. Hair waving apparatus. 1,948,467; Feb. 20.
De la Cierva, Juan, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft of the rotative wing type. 1,947,901; Feb. 20.
De la Cierva, Juan, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft with rotative wings. 1,948,455; Feb. 20.
De la Cierva, Juan, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft with rotative sustaining blades. 1,948,456; Feb. 20.
De la Cierva, Juan, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft sustaining rotor. 1,948,458; Feb. 20.
Delco Products Corporation. (See Kindl, Carl H., assignor.)
Delco Products Corporation. (See Rossman, Edwin F., assignor.)
Delco Products Corporation. (See Teeter, Wilford H., assignor.)
Delco-Remy Corporation. (See Phelps, Alva W., assignor.)
Delco-Remy Corporation. (See Poole, Lora E., assignor.)
Delco-Remy Corporation. (See Shippy, L. C., Phelps, and Holmes, assignors.)
Delman, Inc. (See Ellington, Ferdinand W., assignor.)
Delman, Inc. (See Morali, Charles, assignor.)
Delta Manufacturing Company, The. (See Tautz, Herbert E., assignor.)
De Marais, Frank. (See Baird, V. E., Griffiths, and De Marais.)
Deming, George M., East Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Compound gas pressure regulator. 1,948,027; Feb. 20.
Denhart, George E., Pittsburgh, Pa. Tire deflation indicator. 1,947,760; Feb. 20.
Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Apparatus for insulating and wrapping tire bead wire. 1,947,974; Feb. 20.
Dennison, Edward S., Swarthmore, Pa assignor to Westinghouse Electric & Manufacturing Company. Hydraulic governing system. 1,948,098; Feb. 20.
De Port, Théophile, Dayton, Ohio. Tip flap aileron. 1,947,461; Feb. 20.
De Sanno, Albert P., sr. (See Hershey, Samuel M., assignor.)
Despard, Victor R. (See Russell, M. N., and Despard.)
Despard, Victor R., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Electric wiring apparatus. Re19,092; Feb. 20.
De Stoutz, Robert, Niederbronn, France. Piston pump. 1,947,902; Feb. 20.
Deutsche Gasgluhlicht-auer-Gesellschaft mit beschrankter Haftung. (See Kindermann, Erich, assignor.)
Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. (See Fuchs, O., and Naujoks, assignors.)
Deutscher, Oscar C., Brooklyn, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Tuning instrument. 1,947,584; Feb. 20.
Devor Corporation. (See Gerhardt, W. F., and Brock, assignors.)
Dexter Folder Company. (See Kast, Edward R., assignor.)
Dexter Folder Company. (See Mensman, C. J., and Rader, assignors.)
Dianovszky, John, Passaic, N. J. Selective contact illuminator pen and pencil. 1,947,975; Feb. 20.
Dickey, Edward A., Aliquippa, Pa. Brake mechanism for motor vehicles. 1,947,903; Feb. 20.
Dickie, William A., and W. Howarth, Spondon, near Derby, England, assignors to Celanese Corporation of America. Textile machinery. 1,947,976; Feb. 20.
Dickinson, Robert C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnet for circuit breakers and the like. 1,948,099; Feb. 20.
Dillard, James E., Berkeley, Calif. Tub cover. 1,948,204; Feb. 20.
Dixon, Joseph, Crucible Company. (See Van Dorn, Horace B., assignor.)
Dobbins, George E., Philadelphia, Pa. Fastening device for securing the head of a hammer, hatchet, or the like. 1,947,832; Feb. 20.
Doeg, Ralph W., assignor to Kelvinator Corporation, Detroit, Mich. Controller. 1,948,339; Feb. 20.
Doherty, Henry L. (See Loebell, H. O., and Klees, assignors.)
Dolbier, Charles M., assignor to C. D. Lander, Kingfield, Maine. Oil depth gauge-rod wiper and closure therefor. 1,947,833; Feb. 20.
Dolza, John, and D. D. Stone, Flint; said Dolza assignor to General Motors Corporation, Detroit, Mich. Groove for main bearings. 1,948,340; Feb. 20.
Doorbar, John H., Highland Park, N. J., assignor to Du Pont Film Manufacturing Corporation, New York, N. Y. Making casting wheels. 1,947,462; Feb. 20.
Douglass, William A. (See Calcott, W. S., and Douglass.)
Dow Chemical Company, The. (See Reilly, John H., assignor.)
Draper Corporation. (See Herring, Altus W., assignor.)
Dreyfus, Henry, London, England. Manufacture and treatment of cellulose esters. 1,947,463; Feb. 20.
Dreyfus, Henry, London, England. Manufacture of organic substitution derivatives of cellulose. 1,947,464; Feb. 20.
Dreyfus, Henry, London, England. Textile fabric. 1,947,465; Feb. 20.
Dreyfus, Henry, London, England. Manufacture of aliphatic anhydrides. 1,947,977; Feb. 20.
Driemeyer, George F., Paris, France, assignor to General Steel Castings Corporation, Granite City, Ill. Railway vehicle structure. 1,948,259; Feb. 20.
Driggs, Louis L., jr., Tippecanoe City, Ohio, and H. B. Faber, New York, N. Y. Flare signal. 1,947,834; Feb. 20.

Drug Products Co., The. (See Noonan, Harry, assignor.)
Drumm, Elmer E., Two Rivers, Wis. Toy stove. 1,948,100; Feb. 20.
Du Bois, Cornelius M., assignor to Autopoint Company, Chicago, Ill. Desk stand. Des. 91,514; Feb. 20.
Du Bois, Cornelius M., assignor to Autopoint Company, Chicago, Ill. Desk stand. Des. 91,515; Feb. 20.
Dubbs, Leland A., Los Angeles, Calif. Garbage can lining. 1,947,835; Feb. 20.
Du Donjon, Norbert J., Paris, France. Molding machine. 1,948,205; Feb. 20.
Dujardin, Henri, Rye, N. Y. Chair. 1,948,341; Feb. 20.
Dulany, Helen H., Chicago, Ill. Salt and pepper shaker assembly. Des. 91,555; Feb. 20.
Duner Company. (See Duner, John C., assignor.)
Duner, John C., assignor to Duner Company, Chicago, Ill. Water closet. 1,948,101; Feb. 20.
Dunlop Rubber Company Limited. (See Murphy, E. A., and James, assignors.)
Dunlop Rubber Company Limited. (See Murphy, E. A., and Owen, assignors.)
Dunlop Rubber Company. (See Twiss, D. F., and Neale, assignors.)
Dunn, George T., et al. (See Carson, Lee L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Bond, G. R., jr., and Davis, assignors.)
Du Pont, E. I., de Nemours & Company. (See Burdick, Charles L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., and Douglass, assignors.)
Du Pont, E. I., de Nemours & Company. (See Duns, Hans C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hitch, Emmet F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Lewis, Harold A., assignor.)
Du Pont Film Manufacturing Corporation. (See Doorbar, John H., assignor.)
Duquaine, Cecil L., Menominee, Mich. Automobile door locking means. 1,947,761; Feb. 20.
Duus, Hans C., Greenville, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of oxalic acid. 1,948,441; Feb. 20.
Dvornikoff, Michael N., St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Manufacture of benzoic anhydride. 1,948,342; Feb. 20.
Dwyer, Richard J., Lyndhurst, assignor to A. Gutierrez Inc., Passaic, N. J. Comb package. 1,947,762; Feb. 20.
Dwyre, Burton G., Silver City, N. Mex. Slide rule. 1,947,699; Feb. 20.
Dygert, Harold R., Roselle Park, N. J., and L. S. Metcalfe, Scarsdale, N. Y. Envelope. 1,948,290; Feb. 20.
Eagle Foundry Company. (See Klemme, Maurice G., assignor.)
Eagle Pencil Company. (See Hochman, Julius C., assignor.)
Earle, James T., Cincinnati, Ohio, and A. McNeese, Covington, Ky. Floor trucking equipment. 1,948,206; Feb. 20.
Eastern Finishing Works. (See Adams, William H., assignor.)
Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)
Eby, Hugh H. (See Lodge, Edmund G., assignor.)
Eccles, William, Chorlton-cum-Hardy, England, assignor, by mesne assignments, to General Electric Company. Inertia governor. 1,948,416; Feb. 20.
Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Thread tool grinding machine. 1,947,466; Feb. 20.
Edwards, Albert E., Fort Dodge, Iowa. Sectional drag conveyer. 1,948,168; Feb. 20.
Edwards, Samuel H., Richmond, assignor to Standard Oil Company of California, San Francisco, Calif. Pressure still header and assembling tool. 1,948,028; Feb. 20.
Egloff, Gustav. (See Morrell, J. C., and Egloff.)
Ehrhart, Gustav. (See Bockmuhl, M., Ehrhart, and Stein.)
Einson, Bernard A., Yonkers, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Display card and support. 1,947,521; Feb. 20.
Einson-Freeman Co. (See Einson, Bernard A., assignor.)
Eisele, Leopold, Saarbrucken, Germany. Resilient wheel for motor vehicles of all kinds. 1,947,643; Feb. 20.
Eisenmann, Karl, Ludwigshafen-on-the-Rhine, and T. Kollmann, Mannheim, Germany, assignors, by mesne assignments, to Unyte Corporation, New York, N. Y. Condensation process yielding condensation products of the urea formaldehyde type. 1,948,343; Feb. 20.
Electrical Engineers Equipment Company. (See Starr, James H., assignor.)
Electrical Research Products, Inc. (See McIlvried, Edwin J., assignor.)
Elektrische Löt-und Schweiss-Gesellschaft mit beschrankter Haftung. (See Helle, Carl, assignor.)
Ellington, Ferdinand W., Jamaica, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,516; Feb. 20.
Ellis, Carleton, Montclair, N. J., assignor to Standard Oil Development Company. Sized paper carrying a synthetic resin of petroleum origin and making same. 1,948,442; Feb. 20.
Ellis, John R., Richmond, Va. Hassock. Des. 91,517; Feb. 20.
Ellsworth, Charles K., Detroit, Mich. Box or similar container. Des. 91,578; Feb. 20.
Elxmeyer, Edwin E., and H. C. Griesedieck, Webster Groves, assignor, to American Pulverizer Company, St. Louis, Mo. Pulverizing machine. 1,947,700; Feb. 20.
Emanuel, B. D. (See Blake, Kenneth R., assignor.)
Emanuelli, Luigi, Milan, Italy, assignor to Società Italiana Pirelli. Restricter. 1,947,929; Feb. 20.
Emmett, William L. R., and B. P. Coulson, jr., Schenectady, N. Y., assignors to General Electric Company. Mercury boiler. 1,948,371; Feb. 20.
Emons, Ernest E., Kennett Square, Pa., assignor to The Ful-Vue Sales Company, Washington, D. C. Pair of spectacles. Des. 91,518; Feb. 20.
Engholm, Bernard A., Lakewood, assignor to The Rola Company, Cleveland, Ohio. Electrodynamic device. 1,948,207; Feb. 20.
Engineering and Research Corporation, The. (See Broekhuysen, William C., assignor.)
Engle, Herman L. (See Rose, T. R., and Engle.)
English, Vernal E., assignor of one-third to N. K. Sweek, Phoebus, Va. Illuminating attachment. 1,947,763; Feb. 20.
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
Enterprise Manufacturing Company. (See Pflueger, Charles T., assignor.)
Eremeeff, Ivan I., Philadelphia, Pa. Principle of producing oscillating energy of desired characteristic. 1,948,169; Feb. 20.
Ericson, Edward, Coral Gables, Fla. Hose supporter. 1,947,764; Feb. 20.
Erlenbach, Michael. (See Steindorff, A., Pfaff, and Erlenbach.)
Escole, Paul J. M., Jeumont, assignor to Forges & Ateliers de Constructions Electriques de Jeumont, Paris, France. Surfacing apparatus. 1,947,930; Feb. 20.
Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
Etablissements Tripette & Renaud Fils. (See Barbade, Pierre, assignor.)
Etten, Nicholas L., Waterloo, Iowa, assignor, by mesne assignments, to Chamberlain Corporation. Operating mechanism for pressers. 1,947,765; Feb. 20.
Etzkorn, Rudolf, Oberbruch, near Heinsberg, Germany, assignor to American Glanzstoff Corporation, New York, N. Y. Spool. 1,947,642; Feb. 20.
Eubank, John T., Sherman, Tex., assignor, by mesne assignments, to Package Machinery Company, Springfield, Mass. Hood applying machine for milk bottles. 1,947,978; Feb. 20.
Evans, Archibald D. (See Wean, R. J., and Evans.)
Evans, Edwin R., Chicago, Ill. Brake linkage. 1,947,905; Feb. 20.
Evans, Edwin R., and E. A. Rockwell, Chicago, Ill. Emergency lever pick-up and release. 1,947,904; Feb. 20.
Evans Elevator Equalizer Company. (See Frost, William P., assignor.)
Ewald, Mark, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Coring machine. 1,948,459; Feb. 20.
Eyer, Carl. (See Krauch, C., Eyer, Baetz, and Korn.)
Faber, Henry B. (See Driggs, L. L., and Faber.)
Fageol, William B., assignor to Twin Coach Company, Kent, Ohio. Motor vehicle. Des. 91,556; Feb. 20.
Fahlstrom, John G., Kansas City, Mo. Incinerator. 1,947,836; Feb. 20.
Fails, William A., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Spring structure. 1,947,931; Feb. 20.
Fante, Harry H., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Rack. 1,947,932; Feb. 20.
Fante, Harry H., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Rack. 1,947,933; Feb. 20.
Farber, S. W., Inc. (See Farber, Simon W., assignor.)
Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Candelabra. Des. 91,557; Feb. 20.
Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Candelabra. Des. 91,558; Feb. 20.
Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Candelabra. Des. 91,559; Feb. 20.
Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Candelabra. Des. 91,560; Feb. 20.
Faries, Robert, St. Davids, Pa. Joint bar. 1,948,102; Feb. 20.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston and packing ring. 1,947,701; Feb. 20.
Farrington, Harry J., Newton, assignor to Farrington Manufacturing Company, Boston, Mass. Eyeglass case. 1,947,979; Feb. 20.
Farrington Manufacturing Company. (See Farrington, Harry J., assignor.)
Federal-American Cement Tile Company. (See Baird, V. E., Griffiths, and De Marais, assignors.)
Federal Telegraph Company. (See Sollie, Sigurd A., assignor.)
Feldman, Charles L., et al., receivers. (See Woodman, Frank, assignor.)
Felix, Friedrich, and W. Huber, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azodyestuffs. 1,948,208; Feb. 20.
Felten & Guilleaume Carlswerk Actien-Gesellschaft. (See Büdscheid, Michael, assignor.)
Ferris, John P., assignor to The Oilgear Company, Milwaukee, Wis. Honing machine. 1,948,468; Feb. 20.
Feyrer, William F., Bridgeport, Conn. Collapsible seat for vehicles. 1,947,980; Feb. 20.

Fiberloid Corporation, The. (See Wallace, George L., assignor.)
Fichandler, Carl, New York, N. Y. Magnetoresistive system and apparatus. 1,948,209; Feb. 20.
Field, Ethel A., New York, N. Y. Flower holder. 1,947,702; Feb. 20.
File, Gordon C., Buchanan, Mich. Clutch mechanism. 1,948,068; Feb. 20.
Finch, James L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Signaling. 1,948,103; Feb. 20.
Fine, William H., Los Angeles, Calif. Rivet fastener. 1,947,906; Feb. 20.
Firestone, Floyd A., E. J. Abbott, and H. B. Vincent, Ann Arbor, Mich. Vibration responsive apparatus. 1,948,104; Feb. 20.
Firestone Steel Products Company, The. (See Broecker, Lewis C., assignor.)
Firestone Tire & Rubber Company, The. (See Saurer, Kurt, assignor.)
Fischer, Erich, Bad Soden-on-the-Taunus, and A. Kissling and H. Kracker, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New aniline-sulphonic acids. 1,947,837; Feb. 20.
Fischer, Franz J., assignor to Koch & Sterzel Aktiengesellschaft, Dresden, Germany. High potential transformer. 1,948,417; Feb. 20.
Fischer, Johannes, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Plating aluminum. 1,947,981; Feb. 20.
Fischer, Wilhelm, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Manufacture of rubber heels. 1,948,344; Feb. 20.
Fishburn, Otto E., Muncie, assignor, by mesne assignments, to Free Wheeling Patents Corporation, South Bend, Ind. Roller clutch. 1,947,703; Feb. 20.
Fisher, Gerald M., Los Angeles, Calif. Foamite corrosion inhibitor. 1,948,029; Feb. 20.
Fisher, Harmon F., Long Beach, assignor to Petroleum Rectifying Company of California, Los Angeles, Calif. Method of and apparatus for resolving loose emulsions. 1,947,704; Feb. 20.
Fisk Rubber Company, The. (See Smith, Walter V., assignor.)
Fiss, Albert, St. Louis, Mo. Wardrobe suitcase. 1,947,838; Feb. 20.
Fissell, Grant W., Cleveland, assignor of one-half to Perry H. Stevens, Akron, Ohio. Brake shoe and attaching lining to the same. 1,947,839; Feb. 20.
Fitch, Ellery R., Edgewood, and E. S. Cook, Wilkinsburg, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,947,705; Feb. 20.
Fitch, Emmet F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes. 1,947,550; Feb. 20.
Fitz, Wilhelm, Essen, Germany. Recovery of block sulphur from the products containing sulphur obtained from the wet purification of gas and especially of coal distillation gases. 1,947,467; Feb. 20.
Fitz Gerald, Alan S., Wynnewood, Pa., assignor to General Electric Company. Regulating system. 1,948,372; Feb. 20.
Fitz-on Sales Corporation. (See Fitzsimmons, James F., assignor.)
Fitzsimmons, James F., Belmont, assignor to Fitz-on Sales Corporation, Boston, Mass. Top lift attachment. 1,947,840; Feb. 20.
Flaherty, Mark, Haddon Heights, N. J., assignor to General Electric Company. Preselector tuning system. 1,948,373; Feb. 20.
Fleischmann Distilling Corporation, The. (See Fuerst, Edwin W., assignor.)
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Fluid pressure regulator. 1,947,585; Feb. 20.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Flow choke. 1,947,586; Feb. 20.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Plunger lift valve closing device. 1,947,587; Feb. 20.
Fluss, Viktor, Vienna, Austria. Removing fatty and pitchy matters from animal fibres and for making them more readily feltable. 1,947,522; Feb. 20.
Folberth, Frederick G., and W. M. Folberth, Cleveland, Ohio. Fluid pressure actuated brake. 1,947,841; Feb. 20.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Food Machinery Corporation. (See Schmidt, John, assignor.)
Food Machinery Corporation. (See Thompson, Albert R., assignor.)
Forbes Lithograph Manufacturing Company. (See Thomson, David F., assignor.)
Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Antifriction bearing. 1,948,105; Feb. 20.
Ford Instrument Company. (See Ford, Hannibal C., assignor.)
Forde, Arthur A., Vista, Manitoba, Canada. Vehicle dump body. 1,948,170; Feb. 20.
Forges & Ateliers de Constructions Electriques de Jeumont. (See Escole, Paul J. M., assignor.)
Foster, John F. (See Smith, G. A., and Foster.)
Fowler, Frederick E., Detroit, Mich., assignor to F. W. Stewart Manufacturing Company. Key cutting machine. 1,948,260; Feb. 20.
Fox, David A. (See White, A. H., and Fox.)
Francis, Victor J., Wembley, and J. W. Ryde, London, England, assignors to General Electric Company. Luminous electric discharge tube. 1,948,261; Feb. 20.
Franceway, James A. (See Davis, C. H. B., and Franceway.)
Franck, Ernest W. (See Prescott, J. O., and Franck.)
Franck, Hans H., Berlin, Germany. Preparation of metal cyanamids or mixtures containing the same. 1,948,106; Feb. 20.
Frankel, Sidney. (See May, Louis B., assignor.)
Franklin-Williams, Inc. (See Brooks, Shirley V., assignor.)
Frater, Gordon G., assignor to G. B. Lewis Company, Watertown, Wis. Hive frame. 1,947,706; Feb. 20.
Frazier, Pearl G., Polk City, Iowa. Combined accelerator and starter operating mechanism. 1,947,766; Feb. 20.
Frederick Iron & Steel Company, The. (See Schmidt, John J., assignor.)
Free Wheeling Patents Corporation. (See Fishburn, Otto E., assignor.)
French, Allen J., St. Paul, Minn. Gas stove lighter actuating mechanism. 1,948,210; Feb. 20.
French, Hobert W., assignor to Hammermill Paper Company, Erie, Pa. Blow pit and operating the same. 1,947,707; Feb. 20.
Frese, Joseph F., assignor to Monitor Controller Company, Baltimore, Md. Alternating current contactor. 1,948,374; Feb. 20.
Freyman, Fred, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for gauging members for assemblage. 1,948,291; Feb. 20.
Frick, Chester A., assignor to Glascock Brothers Mfg. Co., Muncie, Ind. Dispensing cooler for bottled beverages or the like. Des. 91,519; Feb. 20.
Friedrich, Hermann. (See Neelmeier, W., Nocken, and Friedrich.)
Fritz, Howard E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Flexible sealing coupling. 1,948,211; Feb. 20.
Frost, William P., Jackson Heights, N. Y., assignor to Evans Elevator Equalizer Company, Bedford, Ind. Strain equalizing device. 1,947,708; Feb. 20.
Fruth, Hal F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating materials. 1,947,547; Feb. 20.
Fruth, Hal F., Chicago, and R. L. Reading, Maywood, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating materials. 1,947,548; Feb. 20.
Fry, Benjamin F. (See Withrow, P. C., and Fry.)
Fuchs, Edward L., assignor of one-half to W. L. Fuchs, St. Louis, Mo. Display device. 1,947,549; Feb. 20.
Fuchs, Otto, and E. Naujoks, Constance, assignors to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Production of paraformaldehyde. 1,948,069; Feb. 20.
Fuchs, William L. (See Fuchs, Edward L., assignor.)
Fuerst, Edwin W., Toledo, Ohio, assignor to The Fleischmann Distilling Corporation, New York, N. Y. Bottle. Des. 91,520; Feb. 20.
Fuerst, Edwin W., Toledo, Ohio, assignor to National Distillers Products Corporation, New York, N. Y. Bottle. Des. 91,561; Feb. 20.
Fuller, Kenneth D., deceased, by R. E. Hickerson, Huntington Beach, Calif., assignor to R. E. Hickerson. Elevator. 1,947,842; Feb. 20.
Ful-Vue Sales Company, The. (See Emons, Ernest E., assignor.)
Fung, Ernest S. K., Honolulu, Hawaii. Combined cigarette and match package. 1,948,418; Feb. 20.
Gabriel, Gustave O., Newark, N. J. Window screen. 1,948,262; Feb. 20.
Ganskow, Otto E. H., Berlin, Germany. Apparatus for trimming and grooving electrotype plates and the like. 1,947,843; Feb. 20.
Garbutt, Frank E. (See Hatherell, G. A., Ingman, and Garbutt.)
Garofalo, Ross J., assignor to Union Oil Company of California, Los Angeles, Calif. Method and apparatus for cracking oils. 1,948,345; Feb. 20.
Garofalo, Ross J., Alhambra, and C. E. Swift, Glendale, assignors to Union Oil Company of California, Los Angeles, Calif. Treatment and dewaxing of petroleum. 1,948,346; Feb. 20.
Garreau, Louis. (See Matheret, R., and Garreau.)
Garrison, Murray E., Los Angeles, Calif., and W. F. Van Loenen, Casper, Wyo., assignors to Petroleum Rectifying Company of California, Los Angeles, Calif. Wetted septum separator and method. 1,947,709; Feb. 20.
Gathmann, Emil, Baltimore, Md. Apparatus for stripping ingots from ingot molds. Re19,086; Feb. 20.
Geddes, Norman B., New York, N. Y. Boat. Des. 91,579; Feb. 20.
Geer, William C., Ithaca, N. Y. Protective coating and making and applying the same. 1,948,292; Feb. 20.
Geilear, George W., New York, N. Y. Arch support. 1,948,347; Feb. 20.
Geimer, William J., assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Container. 1,947,934; Feb. 20.

Geise, Walter A., Flint, assignor to General Motors Corporation, Detroit, Mich. Thermostatically regulated circulating system. 1,948,293; Feb. 20.
Geissler, Martin. (See Johnson, Justus L., assignor.)
General Aniline Works, Inc. (See Fischer, E., Kissling, and Kracker, assignors.)
General Aniline Works, Inc. (See Keller, Karl, assignor.)
General Aniline Works, Inc. (See Koeberle, K., and Mueller, assignors.)
General Aniline Works, Inc. (See Kraenzlein, G., and Corell, assignors.)
General Aniline Works, Inc. (See Kunz, M. A., and Koeberle, assignors.)
General Aniline Works, Inc. (See Lange, Werner, assignor.)
General Aniline Works, Inc. (See Laska, L., and Zitscher, assignors.)
General Aniline Works, Inc. (See Nawiasky, P., Krause, and Stein, assignors.)
General Aniline Works, Inc. (See Neelmeier, W., Nocken, and Friedrich, assignors.)
General Aniline Works, Inc. (See Zitscher, A., Mildner, and Luce, assignors.)
General Bronze Corporation. (See Peremi, E., and Kish, assignors.)
General Cable Corporation. (See Schneider, E. J., and Bradt, assignors.)
General Electric Company. (See Coulson, Bevis P., jr., assignor.)
General Electric Company. (See Eccles, William, assignor.)
General Electric Company. (See Emmet, W. L. R., and Coulson, jr., assignors.)
General Electric Company. (See Fitz Gerald, Alan S., assignor.)
General Electric Company. (See Flaherty, Mark, assignor.)
General Electric Company. (See Francis, V. J., and Ryde, assignors.)
General Electric Company. (See Huber, Herman J. H., assignor.)
General Electric Company. (See Jacobs, Harry M., assignor.)
General Electric Company. (See Nerad, Anthony J., assignor.)
General Electric Company. (See Newkirk, Burt L., assignor.)
General Electric Company. (See Sabbah, Camil A., assignor.)
General Electric Company. (See Welch, Alfred F., assignor.)
General Electric Company. (See Woodruff, Henry S., assignor.)
General Electric X-Ray Corporation. (See Grobe, J. J., and Kizaur, assignors.)
General Machinery Corporation. (See Cole, Lyndon C., assignor.)
General Motors Corporation. (See Boca, Joseph assignor.)
General Motors Corporation. (See Celse, Walter A., assignor.)
General Motors Corporation. (See Dolza, J., and Stone, assignor.)
General Motors Corporation. (See Gaminez, Harold, assignor.)
General Motors Corporation. (See King, Frank A., assignor.)
General Motors Corporation. (See Milner, Wilfred R., assignor.)
General Motors Corporation. (See Summers, Caleb E., assignor.)
General Plate Company. (See Spencer, John A., assignor.)
General Steel Castings Corporation. (See Cease, Robert R., assignor.)
General Steel Castings Corporation. (See Driemeyer, George F., assignor.)
General Steel Castings Corporation. (See Wintemberg, Adelbert C., assignor.)
General Tire & Rubber Company, The. (See Clough, Lee E., assignor.)
General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)
General Tire & Rubber Company, The. (See Orr Clifford B., assignor.)
Gerhardt, William F., Grosse Ile, and C. A. Brock, Detroit, Mich., assignors, by mesne assignments, to Devon Corporation. Amusement apparatus. 1,94[illegible]; Feb. 20.
Gerhold, Charles M., New York, N. Y. Exhaust gas washing apparatus. 1,948,348; Feb. 20.
Gerstandt, Frederick W., Knox, Ind. Seed mixing machine. 1,948,231; Feb. 20.
Gesellschaft für Kohlentechnik m. b. H. (See Gluud, W., Brodkorb, and Klempt, assignors.)
Gibbs, Lloyd T. (See Riney, A. H., and Gibbs.)
Gibson, James R., Cincinnati, Ohio. Package for the preservation and display of game sets and the like. 1,948,294; Feb. 20.
Gibson, Jesse G., assignor of fifty-one per cent to Poyaird and Company, Bradford, Pa. Valve. 1,947,935; Feb. 20.
Gibson Refrigerator Company. (See Smith, Russell T., assignor.)
Gibson, William A., Succasunna, N. J. Retarding device for parachutes. 1,947,468; Feb. 20.
Gilchrist, William L., assignor to Rowe Vending Machine Corp., Ltd., Los Angeles, Calif. Scavenger for coin controlled mechanism. 1,947,767; Feb. 20.
Gilchrist, William L., Los Angeles, Calif., and W. T. Hoofnagle, Glen Ridge, N. J., assignors to Rowe Slug Ejector Co., Ltd., Los Angeles, Calif. Multiple coin actuated vending machine. 1,948,107; Feb. 20.
Gillette Safety Razor Company. (See Stargardter, Albert R., assignor.)
Gillette, Walter H., Louisville, Ky. Folding chair. 1,948,216; Feb. 20.
Gish, Chase E., Denver, Colo. Bowl separator. 1,947,844; Feb. 20.
Gisiger, Florence. (See Gisiger, Hans, assignor.)
Gisiger, Hans, Brooklyn, N. Y., assignor to F. Gisiger, Waltham, Mass. Watch stem and crown setting. 1,948,171; Feb. 20.
Glascock Brothers Mfg. Co. (See Frick, Chester A., assignor.)
Glascodine, Richard T., London, England. Central buffing and draft gear. 1,947,936; Feb. 20.
Glezen, Lee L., Millburn, and S. P. Shackleton, Wyoming, N. J., assignors to American Telephone and Telegraph Company. Fuse and mounting therefor. 1,947,588; Feb. 20.
Globe Machine & Stamping Company, The. (See Green, Lee B., assignor.)
Globe Machinery & Supply Company. (See Bristol, Cyrus J., assignor.)
Gloyd, Frank M., assignor to Simonds Worden White Company, Dayton, Ohio. Shell lining for Jordan engines. 1,947,644; Feb. 20.
Gluud, Wilhelm, F. Brodkorb, and W. Klempt, assignors to Gesellschaft für Kohlentechnik, m. b. H., Dortmund-Eving, Germany. Removal of sulphur and of sulphur and ammonia from gases. 1,947,983; Feb. 20.
Goddu, George, deceased, by I. W. Goddu, Winchester, executrix, and F. L. MacKenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastening inserting machine. 1,947,589; Feb. 20.
Goddu, George, Winchester, and F. L. MacKenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Nail distributor. 1,947,768; Feb. 20.
Goddu, Isabelle W., executrix. (See Goddu, George.)
Goellner, John A., assignor to Monarch Metal Weatherstrip Corporation, St. Louis, Mo. Weather strip. 1,948,108; Feb. 20.
Goldsworthy, Paul A., Berkeley, Calif. Balance indicator for aircraft. 1,948,030; Feb. 20.
Goodey, John A., Dodsland, Saskatchewan, Canada. Lubricating apparatus. 1,947,710; Feb. 20.
Goodrich, B. F., Company, The. (See Cunningham, Edward N., assignor.)
Goodrich, B. F., Company, The. (See Fritz, Howard E., assignor.)
Goodrich, B. F., Company, The. (See Merrill, Allan B., assignor.)
Goodrich, B. F., Company, The. (See Offensend, Chase F., assignor.)
Goodrich, B. F., Company, The. (See Silver, Joseph R., jr., assignor.)
Goodwin, Charles M., sr., Richmond, Va. Electric lock. 1,948,217; Feb. 20.
Gould, George E. (See Pratt, L. A., and Gould.)
Graham, John H., Pittsburgh, Pa. Brake for revolving doors. 1,947,845; Feb. 20.
Grangers Manufacturing Company. (See Pranke, Edward J., assignor.)
Granigg, Bartel, Leoben, Austria. Magnetic separation of materials. 1,948,419; Feb. 20.
Gray Processes Corporation. (See Nisson, Philip S., assignor.)
Green Cross Development Corporation, The. (See Kadow, August, assignor.)
Green, Lee B., Lakewood, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Container closure. 1,948,263; Feb. 20.
Green, Samuel, Bronx, N. Y. Button or similar article. Des. 91,580; Feb. 20.
Greene, Frank C., Milwaukee, Wis. Gas generator. 1,947,590; Feb. 20.
Griesedieck, Henry C. (See Elzemeyer, E. E., and Griesedieck.)
Griffiths, Clyde. (See Baird, V. E., Griffiths, and De Marais.)
Grilli, John P. (See Brassert, H. A., Boynton, and Grilli.)
Grobe, Julius J., Chicago, and A. J. Kizaur, Cicero, assignors to General Electric X-Ray Corporation, Chicago, Ill. X-ray apparatus. 1,947,846; Feb. 20.
Gross, Ralph A., assignor to Simplex Paper Box Corporation, Lititz, Pa. Paper box. 1,947,711; Feb. 20.
Grosswege, John B., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor control means. 1,947,712; Feb. 20.
Groves, Jay, Seattle, Wash. Retention and traction for dentures. 1,947,907; Feb. 20.
Gühloff, Fritz, Berlin-Reinickendorf, Germany. Automatically acting, marking, and cutting device for machines for producing and treating strip-shaped bodies. 1,947,591; Feb. 20.
Guille, Walter J., New York, N. Y. Self-feeding flowerpot. 1,948,031; Feb. 20.
Gumport, Leonard A., New York, N. Y. Manufacture of four-in-hand neckties. 1,948,172; Feb. 20.

Gumpper, Harold D., assignor to M. T. Gumpper, Detroit, Mich. Housing for a motor-generator set. 1,947,713; Feb. 20.
Gumpper, Marjorie T. (See Gumpper, Harold D., assignor.)
Gunn, Ross, Washington, D. C. Electrical marking device for airplane landing fields. 1,947,469; Feb. 20.
Gustafson, Axel E., et al. (See Bergquist, Arthur E., assignor.)
Gutierrez, A., Inc. (See Dwyer, Richard J., assignor.)
Guy, Sydney S., Wolverhampton, and W. A. Stevens, Maidstone, England. Electrically driven vehicle. 1,948,376; Feb. 20.
Guyler, Albert F. (See Welch, S. A., Guyler, Ashby, and Boaler.)
Haas, William F., Rockaway, Long Island, N. Y. Button. Des. 91,581; Feb. 20.
Haas, William F., Rockaway, Long Island, N. Y. Button. Des. 91,582; Feb. 20.
Hacker, Larkin A., Vernon, Tex. Electric automatic volt and heat control for welders. 1,948,377; Feb. 20.
Haffcke, Philip M. (See Heany, J. A., and Haffcke.)
Haffcke, Philip M., Hamden, Conn., assignor to Radio Research Laboratories Inc. Electrical repeater. 1,947,771; Feb. 20.
Hagan, George J., Dormont, Pa. Heat treating furnace. 1,948,173; Feb. 20.
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Strip aligning and tensioning device. 1,948,032; Feb. 20.
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Strip aligning and tensioning device. 1,948,033; Feb. 20.
Hager, Emil F., Richmond Hill, N. Y. Cutting device. 1,948,109; Feb. 20.
Haglund, Hakon H., assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph repeating and receiving apparatus. 1,947,984; Feb. 20.
Haines, Harry H., and K. L. Lange, Akron, Ohio, assignors to Wingfoot Corporation, Wilmington, Del. Aerial display. 1,948,295; Feb. 20.
Hall, Edward H. (See Walsh, H. C. H., and Hall.)
Hall, Eric E., Chicago, Ill. Pipe. 1,948,232; Feb. 20.
Hall, Frank J., Cincinnati, Ohio. Grease lubrication. 1,947,470; Feb. 20.
Hall, Preston M., Worcester, Mass., assignor to American Chain Company, Inc. Chain and manufacture. 1,948,349; Feb. 20.
Haller, John F., Kansas City, Kans. Combination gauge bob and thermometer. 1,947,592; Feb. 20.
Halperyn, Oscar, Brooklyn, N. Y. Mop. 1,948,212; Feb. 20.
Halsey, Edward S., North Miami, Fla. Absorber refrigerating apparatus. Re19,090; Feb. 20.
Hamburger, Walter J., Brookline, and W. L. Thayer, Hingham, assignors to H. Schindler & Co. Inc., Canton, Mass. Apparatus for twisting cord. 1,948,460; Feb. 20.
Hamilton, M. J. Frick. (See Rose, Anthony A., assignor.)
Hamilton, Peter J., Cleveland Heights, Ohio. Hose coupling. 1,947,593; Feb. 20.
Hammermill Paper Company. (See French, Hobart W., assignor.)
Handy, John C., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Apparatus for delivering a lubricant or other liquid to a fluid stream. 1,948,034; Feb. 20.
Hanks, Marshall W., Madison, Wis. Combined vessel and cover for electric cooker. Des. 91,521; Feb. 20.
Hardaker, John T., Bradford, England. Apparatus for use in the production of harness cords for jacquard machines. 1,947,645; Feb. 20.
Hardaker, John T., Bradford, England. Formation and arrangement of the harness cords for jacquard machines. 1,947,646; Feb. 20.
Harding, Clarke T., Elizabeth, N. J., assignor to Standard-I. G. Company. Hydrogenation of hydrocarbon materials. 1,948,378; Feb. 20.
Harlan, Howard H., East Moline, Ill., assignor to Troy Laundry Machinery Co., Inc., New York, N. Y. Washing machine differential drive unit. 1,947,985; Feb. 20.
Harley, Lee M., Brooklyn, N. Y., assignor to James H. Matthews & Company. Formation of printing dies. 1,947,986; Feb. 20.
Harmon, Frank H., assignor of one-half to M. E. Sheets, St. Louis, Mo. Automatic striping machine. 1,947,714; Feb. 20.
Harris, Lorenzo W., Asbury Park, N. J. Game. 1,947,772; Feb. 20.
Harrisburg Pipe and Pipe Bending Company. (See Bowers, John F., assignor.)
Hart, Frederick P. (See Schrader, L. F., and Hart.)
Hartford-Empire Company. (See Headley, B. T., and Thompson, assignors.)
Hartford, Frank M. (See Cuvier, R. F., and Hartford.)
Hartford Steam Boiler Inspection and Insurance Company, The. (See Morrison, Jared P., assignor.)
Harvey, Paul D., Chicago, Ill. Reverse gear unit. 1,947,847; Feb. 20.
Hasse, Charles, and G. Woolley, Toms River, N. J. Self-sealing paste tube. 1,948,070; Feb. 20.
Hatherell, George A., R. and T. M. Ingman, and F. E. Garbutt, Hollywood, assignors, by mesne assignments, to Paramount Publix Corporation, Los Angeles, Calif. System of photographic printing. 1,947,848; Feb. 20.
Hathorn, Charles E., Hempstead, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Combined exhaust manifold and muffler. 1,947,987; Feb. 20.
Haviland, Daniel, Sawtelle, Calif. Dual adjustable lock. 1,948,174; Feb. 20.
Haviland, John A., Fostoria, Ohio. Door fastener. 1,947,773; Feb. 20.
Hayiett, Robert E., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Producing asphalt. 1,948,296; Feb. 20.
Hazan, Alexandre, Antwerk, Belgium. Device for honing and stropping razor blades. 1,947,849; Feb. 20.
Headley, Benjamin T., and P. H. Thompson, Millville, N. J., assignors, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Glass working machine. 1,948,218; Feb. 20.
Headley, Benjamin T., and P. H. Thompson, Millville, N. J., assignors, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Glass working method and machine. 1,948,219; Feb. 20.
Heany, John A., and P. M. Haffcke, New Haven, Conn., assignors to Radio Research Laboratories, Inc. Electrical translating device. 1,947,774; Feb. 20.
Hedgeland, Marley C., assignor to Warner Gear Company, Muncie, Ind. Shift lever. 1,947,988; Feb. 20.
Heidloff, Joseph R. (See Oliver, W. F., and Heidloff.)
Heikjenskjöld, Gustaf O. W., Stockholm, Sweden. Bathing plant. 1,947,594; Feb. 20.
Heintz & Kaufman, Ltd. (See Scofield, Philip F., assignor.)
Heitman, Edward, and A. H. Sack, assignors to Kelvinator Corporation, Detroit, Mich. Shipping case and supporting frame for refrigerating apparatus. 1,947,850; Feb. 20.
Helle, Carl, assignor to Elektrische Löt- und Schweiss-Gesellschaft mit beschrankter Haftung, Brunswick, Germany. Apparatus and method for applying strips of solder to sheet metal. 1,948,379; Feb. 20.
Hellthaler, Theodor, Granschutz, and E. Peter, Webau, assignors to the Firm A. Riebeckshe Montanwerke Aktiengesellschaft, Halle, Germany. Oxidizing hydrocarbons. 1,947,989; Feb. 20.
Heltzel, John N., Warren, Ohio. Road form. 1,948,213; Feb. 20.
Hennessy, James J., New York, N. Y. Railway journal lubricator. 1,948,297; Feb. 20.
Hennig, Fred, assignor to Pittsburgh Taximeter Company, Pittsburgh, Pa. Drive mechanism for taximeters. 1,947,937; Feb. 20.
Henning, Malcolm E., assignor to Penn Electric Switch Co., Des Moines, Iowa. Pressure tube and hand switch. 1,948,175; Feb. 20.
Hensley, Charles G., receiver. (See Newmann, John, assignor.)
Hermann, Otto, assignor to Thermo Electric Company, St. Louis, Mo. Thrmoelectric element and thermocouple. 1,947,595; Feb. 20.
Herring, Altus W., Talladega, Ala., assignor to Draper Corporation, Hopedale, Mass. Bobbin supporter for looms. 1,947,596; Feb. 20.
Hershey, Samuel M., Bala, assignor to A. P. De Sanno, sr., Philadelphia, Pa. Abrasive stick holder. 1,948,266; Feb. 20.
Heuer, Lawrence H., assignor to L. A. Young Spring and Wire Corporation, Detroit, Mich. Hose clamp. 1,947,715; Feb. 20.
Hey, Ernest, Bellingham, Wash. Making a new composition of matter and the product thereof. 1,947,938; Feb. 20.
Hickerson, R. E. (See Fuller, Kenneth D., assignor.)
Hickerson, Robert E., administrator. (See Fuller, Kenneth D.,)
Higson, Percy R. (See Larsson, C. A., and Higson.)
Hill, Harry, Belvedere, assignor to Callender's Cable and Construction Company, Limited, London, England. Machine for producing wire strands. 1,947,775; Feb. 20.
Hirschhorn, Benjamin, assignor to Millie Patent Holding Co. Inc., New York, N. Y. Bag for coffee percolators. 1,947,523; Feb. 20.
Hoag, Martin R., Chicago, Ill. Headlight construction. 1,948,264; Feb. 20.
Hobler, Frank C., Elmira, N. Y. Automobile spring shackle. 1,948,110; Feb. 20.
Hobson, Stanley H., assignor to Geo. D. Roper Corporation, Rockford, Ill. Pump unit. 1,947,551; Feb. 20.
Hochman, Julius C., assignor to Eagle Pencil Company, New York, N. Y. Compass. Des. 91,522; Feb. 20.
Hodgman Rubber Company. (See Sindler, Jay J., assignor.)
Hoegger, Joseph A., Jersey City, N. J. Side light attachment for mirrors. 1,948,111; Feb. 20.
Hoegger, Joseph A., Weehawken, N. J. Illuminated mirror attachment. 1,948,112; Feb. 20.
Hoelkeskamp, Franz, Wuppertal-Wichlinghausen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Incorporation of metal-compounds into textiles. 1,947,597; Feb. 20.
Hoerbiger, Alfred, Mauer, near Vienna, and R. Köhler, Vienna, assignors to the firm Hoerbiger & Co., Mauer, near Vienna, Austria. Annular valve. 1,948,375; Feb. 20.

Hoerbiger & Co. (See Hoerbiger, A., and Köhler, assignors.)
Hoffin, Elizabeth, New York, N. Y., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner dust bag. Des. 91,562; Feb. 20.
Hofmann, Alfred, & Company. (See Anderson, V., and Trutner, assignors.)
Hofmann, Felix C., and F. F. Rohl, Berlin, Germany. Method and equipment for lapping spur-helical and internal gears. 1,948,071; Feb. 20.
Hofmann, Fritz, and K. Lang, Breslau, assignors to the firm Oberschlesischer Berg- und Hüttenmännischer Verein e. v. Gleiwitz, Germany. Production of pure phenol, cresols, and benzol-hydrocarbons from crude tar phenols. 1,947,648; Feb. 20.
Hofmann, George, Lyons, Ill. Furnace. 1,948,214; Feb. 20.
Hofmann, Max, New York, N. Y. Embroidered textile fabric or similar article. Des. 91,583; Feb. 20.
Hofstatter, Allen, assignor to Associated Oil Burner Co., Inc., Hartford, Conn. Oil burner. 1,948,420; Feb. 20.
Hojnowski, Jakob, Nekoosa, Wis. Aeroplane. 1,947,908; Feb. 20.
Holden, John K., Los Angeles, Calif. Extensible platform. 1,947,647; Feb. 20.
Hollander, Aladar, Pasadena, assignor to Byron Jackson Co., San Francisco, Calif. Tool joint. 1,947,909; Feb. 20.
Hollingsworth, Maurice H., Miami Beach, Fla. Automobile parking device. 1,947,598; Feb. 20.
Holloway, William M., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Automatically soldering the side seams of containers and the like. 1,947,471; Feb. 20.
Holmes, Henry H. (See Wildt, E., and Holmes.)
Holmes, John Q. (See Shippy, L. C., Phelps, and Holmes.)
Holophane Company. (See Ingler, William A., assignor.)
Hood Rubber Company. (See Smith, John A., assignor.)
Hoofnagle, William T. (See Gilchrist, W. L. and Hoofnagle.)
Hookless Fastener Company. (See Sundback, Gideon, assignor.)
Hoover Company, The. (See Burkhardt, Chandos, assignor.)
Hoover Company, The. (See Hoffin, Elizabeth, assignor.)
Hoover Company, The. (See Kitto, William H., assignor.)
Hoover Company, The. (See White, Harry B., assignor.)
Hoover, George S., Wellsburg, W. Va. Machine for attaching bails to containers. 1,947,472; Feb. 20.
Hope, Harry M., New York, N. Y., assignor to Alco Products, Incorporated. Header construction and heat transfer apparatus. 1,948,380; Feb. 20.
Hopkins, Benjamin F., and J. V. O. Palm, Cleveland Heights, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making connecting rods. 1,948,176; Feb. 20.
Hopkins, Marion B., Elizabeth, N. J., assignor to Standard Oil Development Company. Incorporating oil and resinous bodies. 1,948,267; Feb. 20.
Hopkinson, Ernest, New York, N. Y., assignor to United States Tire Company, Incorporoted, Indianapolis, Ind. Apparatus for forming hollow articles. 1,947,990; Feb. 20.
Horldt, Henry, Detroit, Mich. Self-aligning door bumper. 1,947,524; Feb. 20.
Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Apparatus for catalytic heating. 1,948,298; Feb. 20.
Howarth, William. (See Dickie, W. A., and Howarth.)
Huber, Herman J. H., Upper Darby, Pa., assignor to General Electric Company. Electrical switch gear. 1,948,350; Feb. 20.
Huber, Wilhelm. (See Felix, F., and Huber.)
Hubert, Emil, and K. Wiesbrod, Elberfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the Main, Germany. New copper oxide-ammonia cellulose solutions. 1,947,939; Feb. 20.
Huddle, Edwin F., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Mower. 1,947,552; Feb. 20.
Huebner, Otto E., Richmond Hill, N. Y., assignor, by mesne assignments, to Mechanical Development Corporation of America. Storage battery. 1,947,473; Feb. 20.
Huff, Wilbert J., L. Logan and O. W. Lusby, Baltimore, Md. Purification of gas. 1,947,776; Feb. 20.
Huff, Wilbert J., O. W. Lusby, and L. Logan, Baltimore, Md. Filling unit. 1,947,777; Feb. 20.
Huff, Wilbert J., L. Logan, and O. W. Lusby, Baltimore, Md. Combined generator and purifier. 1,947,778; Feb. 20.
Huff, Wilbert J., L. Logan, and O. W. Lusby, Baltimore, Md., assignors to W. J. Huff, agent. Apparatus for purifying gas. 1,947,779; Feb. 20.
Huff, Wilbert J., agent. (See Huff, W. J., Logan, and Lusby, assignors.)
Hughes Tool Company. (See Baggett, Henry T., assignor.)
Hughes Tool Company. (See Fletcher, Harold W., assignor.)
Hull, Leslie M., Boonton, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. System for amplification. 1,948,265; Feb. 20.
Hume, James W., Jackson, Mich. Guard for vehicle running boards. 1,947,525; Feb. 20.
Hummell, Hans G. (See Jahrstorfer, M., and Hummel.)
Hunt, Rodney Machines Company. (See Simonds, Warren J., assignor.)
Huntington, Edward E., assignor to The Willys-Overland Co., Toledo, Ohio. Motor vehicle electric system. 1,948,443; Feb. 20.
Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)
Hyatt, Louis C., assignor to Consolidated Car-Heating Company, Inc., Albany, N. Y. Car-heating and ventilating system. 1,947,716; Feb. 20.
Hyde, Ralph E., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Chaser carrier. 1,947,599; Feb. 20.
Hydraulic, Gesellschaft mit beschrankter Haftung. (See Schlenstedt, Oswig, assignor.)
Hydraulic Brake Company. (See Oliver, W. F., and Heidloff, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Hubert, E., and Weisbrod, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Jahrstorfer, M., and Hummel, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Krauch, C., Eyer, Baets, and Korn, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Luther, Martin, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Mittasch, A., and Chall, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Nitzschke, Oswin, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schweitzer, Eugen, assignor.)
Imperial Chemical Industries Limited. (See Jones, D. C. R., and Thomson, assignors.)
Imperial Chemical Industries Ltd. (See Macarthur, A., and Stewart, assignors.)
Industries of America, Incorporated. (See Robinson, Harry G., assignor.)
Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)
Ingler, William A., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Making a glass article. 1,947,526; Feb. 20.
Ingman, Thomas M. (See Hatherell, G. A., Ingman, and Garbutt.)
Innovation Brakes Incorporated. (See Shelor, Frederick L., assignor.)
Insulation Development Corporation. (See McIntyre, Brouwer D., assignor.)
International Communications Laboratories, Inc. (See Woodward, M. H., and Connery, assignors.)
International Motor Company. (See Loeffler, Bruno, assignor.)
International Silver Company. (See Conroy, Edward J., assignor.)
International Standard Electric Corporation. (See Scott, T. R., and Allen, assignors.)
Irey, Kenneth, M., New Brunswick, N. J., assignor to Resinox Corporation, New York, N. Y. Oil-soluble resin. 1,948,469; Feb. 20.
Ironsides Company, The. (See Williams, Robert C., assignor.)
Isenhower, Harry R., Bloomfield, Ind. Salt shaker. 1,947,600; Feb. 20.
Isler, Herman, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless work feed. 1,948,113; Feb. 20.
Isom, Elizabeth V., Mitchell, Ind. Child's traveling case toilet and chamber therefor. 1,947,940; Feb. 20.
Jackson, Byron, Co. (See Hollander, Aladar, assignor.)
Jackson, Corwill, Ludington, Mich. Apparatus for treating concrete and like plastic materials. 1,947,941; Feb. 20.
Jacobs, Harry M., Scotia, N. Y., assignor to General Electric Company. Electrical power equipment. 1,948,351; Feb. 20.
Jacobsen, Edwin, Los Angeles, Calif. Casing for a duplicating machine. Des. 91,523; Feb. 20.
Jahrstorfer, Michael, and H. G. Hummel, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Derivative of montane. 1,948,299; Feb. 20.
James, Robert G. (See Murphy, E. A., and James.)
Janik, John J. Niagara Falls, N. Y. Toothbrush. 1,948,233; Feb. 20.
Janssen, Guido, Charlottenburg, Germany. Building and construction for underground railroads. 1,948,114; Feb. 20.
Jay-Dee Manufacturing Co. (See Campbell, John D., assignor.)
Jeffrey Manufacturing Company, The. (See Armstrong, Walter J., assignor.)
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jenckes, Frederick A. (See Brunet, R. L., Bracewell, and Jenckes.)
Jerguson, Philip A., West Medford, Mass. Liquid gauge. 1,947,910; Feb. 20.
Jessup, George W., assignor to F. W. Davis, Waltham, Mass. Power steering gear and rotary valve therefor. 1,947,991; Feb. 20.
Jewett, Joseph E., Buffalo, assignor to National Aniline and Chemical Company, Inc., New York, N. Y. Mixing apparatus. 1,947,851; Feb. 20.
Jewett, Joseph E., Buffalo, assignor to National Aniline and Chemical Company, Inc., New York, N. Y. Conducting caustic alkali fusions. 1,947,852; Feb. 20.

Johansson, Johan W., Bankeryd, Sweden. Machine for the manufacture of match splint strips. 1,948,381; Feb. 20.
Johns-Manville Corporation. (See Mazza, Adolfo, assignor.)
Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Machine tool. 1,948,115; Feb. 20.
Johnson, Arthur A., Bridgeport, Conn., assignor to Autographic Register Company, Hoboken, N. J. Manifolding machine. 1,948,852; Feb. 20.
Johnson, Cecil L., Toledo, Ohio. Heat meter. 1,948,234; Feb. 20.
Johnson, Frank L., Akron, Ohio. Annular collapsible form. 1,948,035; Feb. 20.
Johnson, Gustav, West Roxbury, assignor to United-Carr Fastener Corporation Cambridge, Mass. Making fastener sockets. 1,948,300; Feb. 20.
Johnson, Gustav, West Roxbury, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Slide fastener. 1,948,301; Feb. 20.
Johnson, Harry V., Niagara Falls, N. Y., assignor to National Carbon Company, Inc. Oxidation resisting carbon article. 1,948,382; Feb. 20.
Johnson, Joseph E., West Roxbury, Mass. Window screen frame. 1,948,383; Feb. 20.
Johnson, Justus L., Lynwood, and M. Geiszler, South Gate, Calif. Fuse. 1,948,421; Feb. 20.
Johnson, William L. (See Carter, R. M., and Johnson.)
Johnston, Edwin L., Houston, Tex. Pipe rack. 1,947,553; Feb. 20.
Jones, David C. R., and R. F. Thomson, Grangemouth, Scotland, assignors to Imperial Chemical Industries Limited. Dyestuff and dyestuff intermediate. 1,948,116; Feb. 20.
Jones, George I. (See Bucknam, W. C., and Jones.)
Jones, Thomas B., Webster Groves, assignor to Century Electric Co., St. Louis, Mo. Cabinet or enclosure for fans. Des. 91,524; Feb. 20.
Kadavy, Godfrey J., Omaha, Nebr. Surgical instrument. 1,947,649; Feb. 20.
Kadow, August, assignor to The Green Cross Development Corporation, Toledo, Ohio. Fertilizer container for plants. 1,948,117; Feb. 20.
Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Stove. 1,947,554; Feb. 20.
Kalas, Frank T., Philadelphia, Pa. Storage battery case. Des. 91,525; Feb. 20.
Kalfus, Victor, New York, N. Y. Punch. 1,948,215; Feb. 20.
Kanolt, Clarence W., New York, N. Y. Mechanism for moving camera plates or shutters. 1,947,555; Feb. 20.
Kanter, Edward, Cleveland Heights, Ohio. Combination shaker and decanter. Des. 91,526; Feb. 20.
Karasic, Reuben, Asbury Park, N. J. Plait for sport coats and the like. 1,948,177; Feb. 20.
Kasden, Louis J. (See Kiernan, J. P., Cottle, and Sheehan, assignors.)
Kast, Edward R., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Sheet or signature separating and feeding mechanisms. 1,948,038; Feb. 20.
Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Warp stop motion. 1,947,992; Feb. 20.
Kay-Brunner Steel Products Inc. (See Kay, Lloyd D., assignor.)
Kay, Lloyd D., Los Angeles, Calif., assignor to Kay-Brunner Steel Products Inc. Dual-tired truck wheel. 1,947,911; Feb. 20.
Kearney, James R., Corporation. (See Mebold, Frederick W., assignor.)
Keegan, James J., et al. (See Rechten, George, assignor.)
Keeler Brass Company. (See Keeler, Isaac S., assignor.)
Keeler, Isaac S., assignor to Keeler Brass Company, Grand Rapids, Mich. Drawer pull. 1,947,942; Feb. 20.
Keller, Karl, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Derivatives of higher fatty acids containing nitrogen and making same. 1,947,650; Feb. 20.
Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Damped mechanical filter. 1,947,543; Feb. 20.
Kellogg, John H., Battle Creek, G. L. Teller, and W. K. Teller, Riverside, Ill., assignors to The Battle Creek Food Company, Battle Creek, Mich. Cocoa product and making same. 1,947,717; Feb. 20.
Kelsen, Ernst, Vienna, Austria, assignor to Kelsen Special Sheet Holding, S. A., Luxemburg, Luxemburg. Electrolytic manufacture of iron and its alloys. 1,948,235; Feb. 20.
Kelsen Special Sheet Holding S. A. (See Kelsen, Ernst, assignor.)
Kelsey-Hayes Wheel Corporation. (See Lejeune, Frank H., assignor.)
Kelvinator Corporation. (See Doeg, Ralph W., assignor.)
Kelvinator Corporation. (See Heitman, E., and Sack, assignors.)
Kelvinator Corporation. (See Phillips, Arthur V., assignor.)
Kennedy, Edward, New York, N. Y. House trap. 1,948,220; Feb. 20.
Kerr, Samuel L., Philadelphia, Pa., assignor to I. P. Morris and De La Vergne, Inc. Governor. 1,947,602; Feb. 20.
Kesselring, Roman. (See Novak, J., and Kesselring.)
Kidde, Walter, & Company. (See Minor, Henry R., assignor.)
Kiernan, James P., Derby, C. G. Cottle, West Haven, and W. J. Sheehan, New Haven, assignors, by mesne assignments, to L. J. Kasden, Ansonia, Conn. Lamp. Des. 91,584; Feb. 20.
Kimble Electric Co., The. (See Nies, John D., assignor.)
Kinderman, Erich, Berlin-Reinickendorf-West, assignor to Deutsche Gasglublicht-Auer-Gesellschaft mit beschrankter Haftung, Berlin, Germany. Single evaporator for absorption machines. 1,947,780; Feb. 20.
Kindl, Carl H., assignor to Delco Products Corporation, Dayton, Ohio. Shock absorber. 1,948,036; Feb. 20.
King, Frank A., Englewood, Colo. Mechanical movement. 1,947,853; Feb. 20.
King, Frank A., Lansing, assignor to General Motors Corporation, Detroit, Mich. Piston milling and turning machine. 1,948,236; Feb. 20.
King, Gilbert M., Pawtucket, R. I. Textile fabric or similar article. Des. 91,585; Feb. 20.
Kingsland, George D., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Heat regulating device. Re19,091; Feb. 20.
Kinston, Frederick S., assignor, by mesne assignments, to Sunlight Electrical Company, Warren, Ohio. Electric motor. 1,948,037; Feb. 20.
Kip, Frederic E., Montclair, N. J. Liquid fuel stove. 1,948,221; Feb. 20.
Kirk, Raphael S., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Machine for shaping tires and inserting air bags. 1,948,302; Feb. 20.
Kish, Charles. (See Peremi, E., and Kish.)
Kissling, Albert. (See Fischer, E., Kissling, and Kracker.)
Kitto, William H., Canton, assignor to The Hoover Company, North Canton, Ohio. Motor brush. 1,948,268; Feb. 20.
Kizaur, Arthur J. (See Grobe, J. J., and Kizaur.)
Klees, Albert L. (See Loebell, H. O., and Klees.)
Kleiger, Phillip, et al. (See Block, Morris H., assignor.)
Kleinhoffer, Louis, Joliet, Ill. Combination insulator and pressure relief device for carburetors. 1,947,854; Feb. 20.
Klemme, Maurice G., assignor to Eagle Foundry Company, Belleville, Ill. Cooking stove. 1,948,118; Feb. 20.
Klempt, Walter. (See Gluud, W., Brodkorb, and Klempt.)
Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)
Klingelnberg, W. Ferd., Söhne. (See Schicht, Heinrich, assignor.)
Knox, Harry A., Davenport, Iowa. Flexible band track. 1,947,474; Feb. 20.
Knox, Harry A., Davenport, Iowa, and T. H. Nixon, U. S. Army, Gettysburg, Pa. Suspension for track-laying vehicles. 1,947,475; Feb. 20.
Koch & Sterzel Aktiengesellschaft. (See Fischer, Franz J., assignor.)
Koeberle, Karl. (See Kunz, M. A., and Koeberle.)
Koeberle, Karl, and J. Mueller, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dyeing acetate silk. 1,947,855; Feb. 20.
Koehring Company. (See Brey, Harold E., assignor.)
Köhler, Robert. (See Hoerbiger, A., and Köhler.)
Kollmann, Theodor. (See Eisenmann, K., and Kollmann.)
Koppers Company of Delaware, The. (See Nordmeyer, G. J., and Stone, assignors.)
Korn, Friedrich. (See Krauch, C., Eyer, Baetz, and Korn.)
Kortz, Harry, et al. (See Block, Morris H., assignor.)
Kracker, Herbert. (See Fischer, E., Kissling, and Kracker.)
Krlienzlein, Georg, Frankfort-on-the-Main-Hoechst, and M. Corell, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparing condensation products of the benzanthrone series and new products obtainable thereby. 1,947,943; Feb. 20.
Krakau, Harry T., assignor to The Acme Check Company, Ltd., Cleveland, Ohio. Ticket holding and shearing device. 1,947,856; Feb. 20.
Krauch, Carl, and C. Eyer, Ludwigshafen-on-the-Rhine, and G. Baetz, Oggersheim, and F. Korn, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of mixed fertilizers containing ammonium nitrate. 1,947,601; Feb. 20.
Krause, Artur. (See Nawiasky, P., Krause, and Stein.)
Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Corn harvesting machine. 1,947,556; Feb. 20.
Krebs, Paul, Detroit, Mich. Electrically heated knife. 1,947,857; Feb. 20.
Kreidl, Ignaz, Vienna, Austria. Production of opaque glasses and enamels. 1,948,461; Feb. 20.
Kreidl, Norbert, Reitendorf n/Tess, Czechoslovakia. Producing colored coatings of glass. 1,947,781; Feb. 20.
Krein, Andrew J., Baltimore, Md. Garment supporting band. 1,948,444; Feb. 20.
Krishna, Sri, Debra Dun, United Provinces, British India. Composition for reconditioning wood, abrased spike holes in rail sleepers or for filling other holes and for similar purposes. 1,948,422; Feb. 20.
Kropp, Walter, and L. Taub, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. N-alkylated derivatives of barbituric acid. 1,947,944; Feb. 20.

Kruck, Ralph E., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Refrigerator cabinet or similar article. Des. 91,527; Feb. 20.

Kueppers, Fred, Chicago, Ill. Automatic shutter signal for cameras. 1,948,039; Feb. 20.

Kuns, Max A., Mannheim, and K. Koeberle, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat dyestuffs of the dipyrasol-anthronyl series. 1,948,178; Feb. 20.

Kyrides, Lucas P., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Producing isoviolanthrone. 1,947,858; Feb. 20.

Labadie, Harry H., Chicago, and B. B. Beers, Park Ridge, Ill. Brief and sample case. 1,947,718; Feb. 20.

Lagorio, John L., Linden, Calif. Preserving container. 1,948,353; Feb. 20.

LaHodny, William, assignor to Standard Mirror Company, Inc., Buffalo, N. Y. Combined mirror and instrument. 1,948,222; Feb. 20.

Lamer, Louis, New York, N. Y. Store front construction. 1,947,651; Feb. 20.

Lamond, Robert C., assignor to American Engineering Company, Philadelphia, Pa. Valve. 1,947,527; Feb. 20.

Lamont, Robert P., jr., Larkspur, Colo. Device for preventing distortion of beef carcasses. 1,948,269; Feb. 20.

Lamson Company, The. (See Perry, Harold R., assignor.)

Lander, Cathers D. (See Dolbier, Charles M., assignor.)

Landis & Gyr, A. G. (See Nehls, Herbert, assignor.)

Landis & Gyr, A-G. (See Pudelko, Riccard, assignor.)

Lane, George S., Ridgewood, N. J. Device to prevent the scoring of a brake drum. 1,947,719; Feb. 20.

Lang, Karl. (See Hofmann, F., and Lang.)

Lange, Karl L. (See Haines, H. H., and Lange.)

Lange, Werner, Dessau-Ziebigk in Anhalt, Germany, assignor to General Aniline Works, New York, N. Y. Azo dyes. 1,947,945; Feb. 20.

Langedijk, Siegfried L., Amsterdam, assignor to Naamloose Vennootschap de Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Manufacture of heavy metal salts of sulphonic acid soluble in mineral and fatty oils and the products thereof. 1,947,652; Feb. 20.

Larkin, Elwood T., Eggertsville, assignor to C. A. Criqui, Buffalo, N. Y. Gas mixing device. 1,947,603; Feb. 20.

Larrowe-Susuki Company. (See Masuda, R., Royal, and Marshall, assignors.)

Larsen, Agnew E., Huntingdon Valley, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft sustaining rotor. 1,948,457; Feb. 20.

Larsen, Henry M., La Grange Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating materials. 1,947,476; Feb. 20.

Larsen, Henry M., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating coating material applied to a core. 1,947,993; Feb. 20.

Larson, Clifford M., New Rochelle, assignor to Sinclair Refining Company, New York, N. Y. Apparatus for handling soaps. 1,947,994; Feb. 20.

Larsson, Carl A., and P. R. Higson, assignors to Vickers-Armstrongs Limited, Westminster, England. Mounting for machine guns carried by aircraft. 1,947,528; Feb. 20.

Laska, Leopold, and A. Zitscher, Offenbach-on-the-Main, Germany, assignors to General Aniline Works Inc., New York, N. Y. Azodyestuffs insoluble in water and making same. 1,947,946; Feb. 20.

Lassen, Eivind U. (See Seeger, E. W., and Lassen.)

Lathers, Matthew F., Orlando, Fla. Amusement device. 1,947,859; Feb. 20.

Lathrop, George A. (See Brodersen, Max M., assignor.)

Lathrop Investment Corporation. (See Ricks, Hyrum, assignor.)

Laub, Stanley V., Detroit, Mich. Toothbrush. 1,947,720; Feb. 20.

Laub, Stanley V., Detroit, Mich. Toothbrush. 1,947,721; Feb. 20.

Laub, Stanley V., Detroit, Mich. Toothbrush. 1,947,722; Feb. 20.

Lantenschläger, Carl L., M. Rockmühl, and W. Persch, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Mercury containing purine compounds and preparing them. 1,948,179; Feb. 20.

Lavarack, William H. B., Pine Bush, assignor to Railroad Accessories Corporation, New York, N. Y. Binding post. 1,948,470; Feb. 20.

Lavoie, Stephen D., Long Island City, N. Y. Balanced amplifier. 1,948,303; Feb. 20.

Lawrence, Ernest O., Berkeley, Calif., assignor to Research Corporation, New York, N. Y. Method and apparatus for the acceleration of ions. 1,948,384; Feb. 20.

Lawrence, George W. (See Waite, G. G., and Lawrence.)

Leach, Walter R., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Bottle. Des. 91,528; Feb. 20.

Lear, Clyde E., Monessen, Pa., assignor to Page Steel and Wire Company, New York, N. Y. Attachment fitting. 1,947,995; Feb. 20.

Lecuona, Jose C., Stockton, Calif. Polishing device. 1,948,423; Feb. 20.

Leder, Rudolph, New York, N. Y. Jeweler's clamp. 1,947,912; Feb. 20.

Lederer, Anton, Vienna, Austria, deceased, C. Danzer and General Conrad Rands, executors, assignors to E. A. Lederer, Glen Ridge, N. J. Electron emitting body and its manufacture. 1,948,445; Feb. 20.

Lederer, Ernest A. (See Lederer, Anton, assignor.)

Lee, Alva D., Requa, Calif. Extracting metals from ores. 1,947,860; Feb. 20.

Leese, Louis F. W., London, England. Recovery of sulphur. 1,947,529; Feb. 20.

Leffel, James, & Company, The. (See Biggs, George A., assignor.)

Lejeune, Frank H., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Brake drum. 1,947,782; Feb. 20.

Lents, George W., assignor to The Bonnot Company, Canton, Ohio. Sheet slitting machine. 1,948,385; Feb. 20.

LePage, Albert L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Panel fastener. 1,948,462; Feb. 20.

Leveille, Valere, Lawrence, Mass. Theftproof light bulb. 1,948,386; Feb. 20.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Crushing apparatus. 1,947,783; Feb. 20.

Levy, Abraham, assignor to United Metal Goods Manufacturing Co. Inc., Brooklyn, N. Y. Combined clock case and lamp or similar article. Des. 91,563; Feb. 20.

Levy, Leon D., New York, N. Y. Table chair. 1,948,387; Feb. 20.

Lewis, Charles H. (See Urbain, Oliver M., assignor.)

Lewis, David, New York, N. Y. Hand bag frame. Des. 91,564; Feb. 20.

Lewis, David, New York, N. Y. Hand bag frame. Des. 91,565; Feb. 20.

Lewis, David, New York, N. Y. Hand bag frame. Des. 91,566; Feb. 20.

Lewis, David, New York, N. Y. Hand bag frame. Des. 91,567; Feb. 20.

Lewis, Florence N., New York, N. Y. Manicure chest. 1,947,604; Feb. 20.

Lewis, G. B., Company. (See Frater, Gordon G., assignor.)

Lewis, Harold A., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrated sugar explosive. 1,947,530; Feb. 20.

Lewis Invisible Stitch Machine Company. (See Mueller, Charles W., assignor.)

Libbey Glass Manufacturing Company, The. (See Schutz, Harold R., assignor.)

Liberson, Frank, Brooklyn, N. Y. Variable screen for use with X-rays. 1,948,270; Feb. 20.

Liberson, Frank, Brooklyn, N. Y. Automatic displacement syringe. 1,948,388; Feb. 20.

Liberthson, Leo, New York, N. Y., assignor to L. Sonneborn Sons, Inc. Making water soluble petroleum sulphonates. 1,947,861; Feb. 20.

Liebl, Allan J., Sheboygan, Wis. Puzzle section carrying device. 1,947,947; Feb. 20.

Linde Air Products Company, The. (See Bucknam, W. C., and Jones, assignors.)

Linde Air Products Company, The. (See Zenner, George H., assignor.)

Linney, Robert J., Lyon Mountain, N. Y. Demonstration apparatus. 1,947,605; Feb. 20.

Lipscomb, Gaston J., Montclair, N. J. Weed cutter. 1,947,785; Feb. 20.

Littlefield, Harry J., East Rockaway, N. Y. Traffic controlling system. 1,948,424; Feb. 20.

Löbl, Oskar, Berlin-Hermsdorf, Germany. Method of and apparatus for converting polyphase current into single-phase current. 1,948,119; Feb. 20.

Lodge, Edmund G., Oak Lane, assignor to H. H. Eby, Philadelphia, Pa. Low Gradient resistor. 1,948,354; Feb. 20.

Loebell, Henry O., Malba, and A. L. Klees, Long Beach, assignors to Combustion Utilities Corporation, New York, N. Y. Preparing carbonised fuel briquets. 1,948,471; Feb. 20.

Loebell, Henry O., Malba, and A. L. Klees, Long Beach, assignors to Henry L. Doherty, New York, N. Y. Carbonisation process. 1,948,472; Feb. 20.

Loeffler, Bruno, Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Engine brake. 1,947,996; Feb. 20.

Loftis, Homer J., Dayton, Ohio, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Tone quality control. 1,947,557; Feb. 20.

Logan, Lloyd. (See Huff, W. J., Logan, and Lusby.)

Loman, Cornelis. (See Vermeulen, R., Van Urk, and Loman.)

Lombardi Knitting Machine Co. (See Lombardi, Vincent, assignor.)

Lombardi, Vincent, Brooklyn, assignor to Lombardi Knitting Machine Co., Inc., New York, N. Y. Knitting machine. 1,947,558; Feb. 20.

Lonergan, Simon J., assignor to Bastian-Morley Company, La Porte, Ind. Water heater flue. 1,947,606; Feb. 20.

Lormor, Henry W., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Machine for casting straps and posts on sets of battery plates. 1,948,120; Feb. 20.

Loughlin, James F., assignor to A. O. Smith Corporation, Milwaukee, Wis. Inoculating device. 1,948,271; Feb. 20.

Lower, Nathan M., Bellevue, Pa., assignor to The Standard Stoker Company, Incorporated. Locomotive stoker. 1,947,723; Feb. 20.

Lower, Nathan M., Crestwood, N. Y., assignor to The Standard Stoker Company, Incorporated. Locomotive stoker. 1,947,724; Feb. 20.

Lucas, Henry M., Cleveland Heights, and H. N. Stephen, assignors to The Lucas Machine Tool Company, Cleveland, Ohio. Special high speed drive for the spindle of boring machines or other machine tools. 1,947,862; Feb. 20.

Lucas Machine Tool Company, The. (See Lucas, H. M., and Stephan, assignors.)

Luce, Albert L., Perry, Ga. Motor vehicle body construction. 1,948,223; Feb. 20.

Luce, Wilhelm. (See Zitscher, A., Mildner, and Luce.)

Lueck, Henry W., and C. H. Davis, Park Ridge, Ill. Reversible helmet. 1,947,786; Feb. 20.

Lusby, Oscar W. (See Huff, W. J., Logan, and Lusby.)

Luther, Martin, Mannheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Products of dimethylolureas. 1,947,997; Feb. 20.

Lynn Products Co. (See Popp, Leonard A., assignor.)

Lyon, George A., Allenhurst, N. J. Ring construction for ornamenting rims. 1,948,272; Feb. 20.

Lyon, George A., Allenhurst, N. J. Ornamental bead and applying same to a wheeled rim. 1,948,273; Feb. 20.

Lysholm, Alf, assignor to Aktiebolaget-Ljungstroms Angturbin, Stockholm, Sweden. Turbine-driven compressor apparatus. 1,947,477; Feb. 20.

Maas, Eloy F., Cuyahoga Falls, Ohio., assignor to Wingfoot Corporation, Wilmington, Del. Elastic wheel. 1,948,304; Feb. 20.

Mac Ad Company. (See MacLachlan, John D., assignor.)

Macarthur, Arthur, and A. Stewart, Blackley, Manchester, England, assignors to Imperial Chemical Industries, Ltd. Agents for diminishing or suppressing foaming and frothing and the application thereof. 1,947,725; Feb. 20.

Mackensen, Otto, Jena, Germany. Bearing. 1,947,559; Feb. 20.

MacKenzie, Fred L. (See Goddu, G., and MacKenzie.)

MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-supplying apparatus. 1,947,769; Feb. 20.

MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nailing machine. 1,947,770; Feb. 20.

MacLachlan, John D., assignor to Mac Ad Company, Kansas City, Mo. Heavy fluid eliminator. 1,948,180; Feb. 20.

Macomic, Chester A. (See Rhoads, J. E., and White, assignors.)

MacPherson, Earle S., assignor to Hupp Motor Car Corporation, Detroit, Mich. Front end construction. 1,947,787; Feb. 20.

Magnolia Petroleum Company. (See Anderson, J. L., and Wells, assignors.)

Magnus, Hans, Au, near Freiburg, Germany. Apparatus for treating hydrocarbons. 1,948,072; Feb. 20.

Mahoney, John C., Elizabeth, N. J., assignor to Alco Products, Incorporated, New York, N. Y. Apparatus for condensing hydrocarbons. 1,947,863; Feb. 20.

Mahoney, John P., assignor to Bendix Brake Company, South Bend, Ind. Brake connection. 1,947,914; Feb. 20.

Manasek, Emil, Berwyn, Ill. Aircraft propeller. 1,947,560; Feb. 20.

Manley Manufacturing Company. (See Manley, Robert E., assignor.)

Manley, Robert E., assignor to The Manley Manufacturing Company, York, Pa. Hydraulic jack. 1,948,073; Feb. 20.

Manville Jenckes Corporation. (See Brunet, R. L., Bracewell and Janckes, assignors.)

Marcalus, Nicholas, Elizabeth, N. J., assignor to Automatic Paper Machinery Co. Inc. Box machine. 1,947,561; Feb. 20.

Marica, Glen E. (See Payne, R. L., and Marica.)

Markoff, William. (See Brosilow, Markoff, and Oross.)

Marmier, Louis J. A., Lille, France. Catalyst for the production of nitric acid and the like. 1,947,864; Feb. 20.

Marmonier, Louis, Lyon, France. Stabilizing and directing gyroscopic control mechanism. 1,947,562; Feb. 20.

Marogg, Richard, Troy, N. Y. Clamping device. 1,947,607; Feb. 20.

Marschall, Adolph J., Madison, Wis. Closure device. 1,947,915; Feb. 20.

Marsh, Harry V., Chicago, Ill. Box. 1,947,865; Feb. 20.

Marsh, Jas. P., Corporation. (See Beggs, Paul W., assignor.)

Marshall, Albert E. (See Masuda, R., Royal, and Marshall.)

Marshall, Frank O., assignor to The Pullman Company, Chicago, Ill. Generator drive assembly. 1,948,473; Feb. 20.

Martenson, Alcot E., et al. (See Bergquist, Arthur E., assignor.)

Martindell, Frank, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating coating material on a core. 1,947,478; Feb. 20.

Martindell, Frank, Western Springs, and A. D. Miller, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for hardening a composition on a core. 1,947,479; Feb. 20.

Masuda, Reisuke, and C. L. Royal, Toledo, Ohio, and A. E. Marshall, New York, N. Y., assignors to The Larrowe-Suzuki Company, Rossford, Ohio. Manufacturing and recovering glutamic acid and its compounds. 1,947,563; Feb. 20.

Matheret, René, and L. Garreau, Paris, France. Sheath holder for a rouge stick. 1,948,074; Feb. 20.

Matthes, Ernst, Leipzig, Germany. Curling and marcel iron. 1,948,463; Feb. 20.

Matthews, Howard D., assignor to W. M. Chace Valve Company, Detroit, Mich. Bimetallic element. 1,948,121; Feb. 20.

Matthews, James H., & Company. (See Harley, Lee M., assignor.)

Matthews, John G., Berea, Ohio. Reamer. 1,947,531; Feb. 20.

Maurer, John A., jr., New York, N. Y., assignor to Radio Corporation of America. Optical system. 1,947,564; Feb. 20.

Maurer, John A., jr., New York, N. Y., assignor to Radio Corporation of America. Optical system. 1,947,565; Feb. 20.

Maurer, John A., jr., New York, N. Y., assignor to Radio Corporation of America. Optical system. 1,947,566; Feb. 20.

Maurer, John A., jr., New York, N. Y., assignor to Radio Corporation of America. Optical system. 1,947,567; Feb. 20.

Maxwell, Emmett, assignor of one-half to J. W. Womack, Reidsville, N. C. Refrigerating system. 1,948,389; Feb. 20.

Maxwell Steel Vault Company. (See Zerfing, Robert H., assignor.)

May, Louis B., Pittsburgh, assignor to S. Frankel, Pittsburgh, Pa. Amusement device. 1,947,608; Feb. 20.

Mayberry, De Ella B., Detroit, Mich. Hot water circulating system. 1,948,425; Feb. 20.

Mazza, Adolfo, Genoa, Italy, assignor to Johns-Manville Corporation, New York, N. Y. Pipe coupling. 1,947,998; Feb. 20.

McBride, William F., Shreveport, La. Aircraft. 1,948,426; Feb. 20.

McCabe, Catherine B., executrix. (See McCabe, Charles J.)

McCabe, Charles J., Brooklyn, deceased, and I. Schoenholz, Cedarhurst, N. Y., K. B. McCabe, executrix, assignors to United-Carr Fastener Corporation, Cambridge, Mass. Hand bag frame. 1,948,040; Feb. 20.

McCabe, John J., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Tub. Des. 91,568; Feb. 20.

McCabe, John J., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Tub. Des. 91,569; Feb. 20.

McCabe, John J., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Tub. Des. 91,570; Feb. 20.

McCabe, John J., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Tub. Des. 91,571; Feb. 20.

McCallum, James R. (See Alexander, R. L., and McCallum.)

McCollum, John, New York, N. Y. Chewing gum carton. Des. 91,586; Feb. 20.

McCord Radiator & Mfg. Co. (See Bailey, Claude B., assignor.)

McCormick, John H., and F. M. Bender, assignors to Vendi Cater, Inc., Williamsport, Pa. Vending machine. 1,947,999; Feb. 20.

McCourt, John T., Memphis, Tenn. Gas burner. 1,947,866; Feb. 20.

McCowan, David A., Toronto, Ontario, Canada. Bottle case. 1,948,041; Feb. 20.

McCullough, Frederick S., Edgewood, Pa. Thermionic tube. 1,948,122; Feb. 20.

McCullough, Ira J., Huntington Park, Calif. Casing cutter. 1,947,726; Feb. 20.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Door control device. 1,947,727; Feb. 20.

McDanal, Michael R., Denver, Colo. Ophthalmic mounting. Des. 91,529; Feb. 20.

McGrail, Thomas E., assignor to Crane Limited, Montreal, Quebec, Canada. Radiator. 1,947,913; Feb. 20.

McIlvried, Edwin J., Akron, Ohio, assignor, by mesne assignments, to Electrical Research Products Inc., New York, N. Y. Apparatus for handling material. 1,948,305; Feb. 20.

McIntyre, Brouwer D., assignor to Insulation Development Corporation, Monroe, Mich. Sound absorbing panel. 1,947,788; Feb. 20.

McMurray, Frederick R., assignor to M. B. Skinner Co., South Bend, Ind. Pipe joint sealing device. 1,948,274; Feb. 20.

McNamara, William L., assignor to Capstan Glass Company, Connellsville, Pa. Vessel transferring mechanism. 1,947,609; Feb. 20.

McNamara, William L., assignor to Capstan Glass Company, Connellsville, Pa. Transferring device. 1,947,610; Feb. 20.

McNeese, Alvin. (See Earle, J. T., and McNeese.)

McNeill, George K., assignor to Morgan & Wright, Detroit, Mich. Apparatus for cutting and assembling plies. 1,948,000; Feb. 20.

Mebane, Charles P., assignor to The National Glove Company, Columbus, Ohio. Rubber shoe sole and producing the same. 1,948,390; Feb. 20.

Mebold, Frederick W., assignor to James R. Kearney Corporation, St. Louis, Mo. Manufacturing connecter bolts. 1,947,867; Feb. 20.

Mechanical Development Corporation of America. (See Huebner, Otto E., assignor.)

Medoff, William, assignor to National Cellulose Corporation, New York, N. Y. Package. 1,948,181; Feb. 20.
Mensman, Charles J., Washington, D. C., and E. D. Rader, Mount Kisco, assignors to Dexter Folder Company, New York, N. Y. Sheet feeder. 1,948,001; Feb. 20.
Mercedes Büro-Maschinen-Werke Aktiengesellschaft. (See Schluns, Carl, assignor.)
Merrill, Allan B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tank lining and lining tanks. 1,947,582; Feb. 20.
Merrill, David R., Long Beach, and P. Subkow, assignors to Union Oil Company of California, Los Angeles, Calif. Production of lubricating oil. 1,948,042; Feb. 20.
Merrimac Chemical Company. (See Pratt, L. A., and Gould, assignors.)
Metcalfe, Lyne S. (See Dygert, H. B., and Metcalfe.)
Meurer, Nikolaus, Cologne, Germany. Liquid sprayer. 1,948,306; Feb. 20.
Meyer, Eugene F., assignor to Town Talk Manufacturing Company, Louisville, Ky. Adjustable cap. 1,947,480; Feb. 20.
Meyer, Frank H., assignor to The American Welding & Manufacturing Co., Warren, Ohio. Bending machine. 1,948,474; Feb. 20.
Meyer, Fred C., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Cable joint. 1,947,481; Feb. 20.
Michelin et Cie. (See Bourdon, Pierre M., assignor.)
Miedel, Hermann, Frankfort-on-the-Main, Germany, assignor to Revertex Limited, London, England. Producing rubber poor in albumen. 1,947,949; Feb. 20.
Miessner, Benjamin F., Short Hills, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrical rectifying and filtering system. 1,948,307; Feb. 20.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film package. 1,947,482; Feb. 20.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Self-threading camera. 1,947,483; Feb. 20.
Mildner, Hans. (See Zitscher, A., Mildner, and Luce.)
Miller, Ansel D. (See Martindell, F., and Miller.)
Miller, Benjamin, Chicago, Ill. Refrigerating apparatus. 1,948,275; Feb. 20.
Miller, Carroll, Pittsburgh, assignor to Thermatomic Carbon Company, Pittsburgh, Pa. Apparatus for removing oil from thermatomic cabon. 1,947,789; Feb. 20.
Miller, Charles, New York, N. Y. Shoe. Des. 91,587; Feb. 20.
Miller, Charles, New York, N. Y. Shoe. Des. 91,588; Feb. 20.
Miller, Charles, New York, N. Y. Shoe. Des. 91,589; Feb. 20.
Miller, Charles, New York, N. Y. Shoe. Des. 91,590; Feb. 20.
Miller, Charles, New York, N. Y. Shoe. Des. 91,591; Feb. 20.
Miller, Fred J., Appleton, Wis. Car mover. 1,948,123; Feb. 20.
Miller, Harrod G., Oceanport, N. J. Changing the wave form of alternating currents. 1,947,484; Feb. 20.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar or pitch and apparatus therefor. 1,947,485; Feb. 20.
Millie Patent Holding Co. Inc. (See Hirschhorn, Benjamin, assignor.)
Milner, Wilfred R., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Wire wheel hub cover. 1,948,237; Feb. 20.
Milprint Products Corporation. (See Pacini, August J., assignor.)
Milprint Products Corporation. (See Redd, William R., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kingsland, George D., assignor.)
Minnesota Metallurgical Co. (See Popham, William J., assignor.)
Minnice, Hector M., Eureka, Calif., assignor to Reynolds Metals Company, New York, N. Y. Making an inflammable composition. 1,947,790; Feb. 20.
Minor, Henry R., Oak Park, Ill., assignor to Walter Kidde & Company, Inc. Valve. Re19,087; Feb. 20.
Miotke, Joseph, Milwaukee, Wis. Forming means. 1,947,611; Feb. 20.
Misslin, Emil E., Basel, and R. von Capeller, Binningen, near Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azo-dyestuffs and making same. 1,948,224; Feb. 20.
Mitchell, Henry S., Portland, Oreg. Power-operated feeding device. 1,947,728; Feb. 20.
Mitchell, Thomas F., Jamaica, assignor to Paris Art Label Co., Inc., New York, N. Y. Making dies. 1,947,916; Feb. 20.
Mittasch, Alvin, and P. Chall, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of carbamates. 1,948,002; Feb. 20.
Mittmann, Paul, Luddenscheid in Westfalen, Germany, assignor to American Lurgi Corporation, New York, N. Y. Production of zinc sheets particularly adapted for use in galvanic cells. 1,947,948; Feb. 20.
Miyaoka, Yasutaka, Colfax, Calif. Heated metal point electrode. 1,948,075; Feb. 20.
Moecker, Arnold H., Homewood, Ill. Oil mileage indicator. 1,948,427; Feb. 20.
Moffat, John H., Indianapolis, Ind. Spare tire vehicle parking device. 1,948,043; Feb. 20.
Mohun, John L., Omaha, Nebr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake beam. 1,947,580; Feb. 20.
Monarch Governor Company. (See Anderson, James W., assignor.)
Monarch Metal Weatherstrip Corporation. (See Goellner, John A., assignor.)
Monitor Controller Company. (See Frese, Joseph F., assignor.)
Monsanto Chemical Company. (See Dvornikoff, Michael N., assignor.)
Monsanto Chemical Company. (See Smith, Franklin D., assignor.)
Montgomery, Thomas, and J. C. Morrison, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Protective lining in cracking vessels. 1,948,391; Feb. 20.
Moody, Lewis F., Princeton, N. J. Hydraulic apparatus. 1,947,643; Feb. 20.
Moody, Lewis F., Princeton, N. J. Hydraulic apparatus. 1,947,654; Feb. 20.
Moore, David P., Avon Park, Fla., assignor to W-R-M, Inc. Motion picture projector. Des. 91,530; Feb. 20.
Moore, Edmond E. (See Carter, E. B., and Moore.)
Moore, John, Latrobe, Pa. Toilet apparatus. 1,948,182; Feb. 20.
Moore, William E., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa. Electric furnace. 1,947,612; Feb. 20.
Morali, Charles, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,531; Feb. 20.
Morali, Charles, Forest Hill, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,532; Feb. 20.
Morali, Charles, Forest Hill, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,533; Feb. 20.
Morali, Charles, Forest Hill, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,534; Feb. 20.
Morali, Charles, Forest Hills, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 91,535; Feb. 20.
Morgan, John T., Columbus, Ohio. Waterless cooking utensil. 1,948,124; Feb. 20.
Morgan & Wright. (See McNeill, George K., assignor.)
Morrell, Jacque C., and G. Egloff, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,947,868; Feb. 20.
Morrell, Jacque C., and G. Egloff, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,947,869; Feb. 20.
Morris, I. P., and De La Vergne, Inc. (See Kerr, Samuel L., assignor.)
Morris, I. P., and De La Vergne, Inc. (See Spellman, Charles B., assignor.)
Morrison, Jared P., Wethersfield, assignor to The Hartford Steam Boiler Inspection and Insurance Company, Hartford, Conn. Instrument for discovering and recording defects in metal plates. 1,947,729; Feb. 20.
Morrison, John C. (See Montgomery, T., and Morrison, assignors.)
Morse Chain Company. (See Perry, David B., assignor.)
Mosfelt, Harold T., and H. Schagerholm, assignors to Ross J. Beatty, Chicago, Ill. Ribbon holding and feeding mechanism for typewriters. 1,947,730; Feb. 20.
Moss, William H., London, England, assignor to Celanese Corporation of America. Laminated glass and making the same. 1,947,486; Feb. 20.
Moyer, Charles L., Chicago, Ill., assignor, by mesne assignments, to Boston Blacking & Chemical Co., Boston, Mass. Adhesive applying apparatus. 1,947,791; Feb. 20.
Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blind stitch sewing machines. 1,947,950; Feb. 20.
Mueller, Joachim. (See Koeberle, K., and Mueller.)
Müller, Jakob, Munchenstein, near Basel, and R. Stocker, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Indigoid vat-dyestuffs and making the same. 1,947,655; Feb. 20.
Murphy, Edward A., Erdington, Birmingham, and E. W. B. Owen, Walmley, England, assignors to Dunlop Rubber Company Limited. Forming ornamental surfaces from dispersed media. 1,947,870; Feb. 20.
Murphy, Edward A., Wylde Green, and R. G. James, Selly Oak, Birmingham, assignors to Dunlop Rubber Company Limited, London, England. Production of rubber articles. 1,947,871; Feb. 20.
Murray, Ernest E. (See Myers, J. W., and Murray.)
Musante, Augustine F. S. (See Alleman, G., and Musante.)
Mutual Chemical Company of America. (See Tarr, Omar F., assignor.)
Myers, Adolph A., and E. W. Archer, Louisville Ky. Ironer. 1,948,225; Feb. 20.
Myers, Joseph W., Philadelphia, Pa., and E. E. Murray, Jackson, Mich. Water mixer. 1,948,044; Feb. 20.
Naamlooze Vennootschap de Bataafsche Petroleum Maatschappij. (See Langedijk, Siegfried L., assignor.)
National Aniline and Chemical Company. (See Jewett, Joseph E., assignor.)
National Aniline & Chemical Company. (See Kyrides, Lucas P., assignor.)
National Carbon Company. (See Johnson, Harry V., assignor.)
National Cellulose Corporation. (See Medoff, William, assignor.)
National Glove Company, The. (See Mebane, Charles P., assignor.)

National Distillers Products Corporation. (See Fuerst, Edwin W., assignor.)
National Manufacturing Company. (See Clark, Earl W., assignor.)
National Radiator Corporation. (See Wentworth, Robert S., assignor.)
Natwick, Albert G. (See Barber, W. R., Natwick, and Phelps.)
Naujoks, Erich. (See Fuchs, O., and Naujoks.)
Nawiasky, Paul. A. Krause, Ludwigshafen-on-the-Rhine, and B. Stein, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Production of anthraquinone derivatives. 1,948,183; Feb. 20.
Neale, Albert E. T. (See Twiss, D. F., and Neale.)
Neelmeier, Wilhelm, T. Nocken, and H. Friedrich, Leverkusen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Acidyl polyalkylene polyamines. 1,947,951; Feb. 20.
Nehes, Herbert, Hawthorne, N. J., assignor to Landis & Gyr, A. G. Energy measuring and recording mechanism. 1,947,731; Feb. 20.
Neighbors, Charles C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Making magnetic bodies. 1,948,308; Feb. 20.
Nerad, Anthony J., Schenectady, N. Y., assignor to General Electric Company. Liquid boiler. 1,948,355; Feb. 20.
Nerad, Anthony J., Schenectady, N. Y., assignor to General Electric Company. Vapor generator. 1,948,356; Feb. 20.
Neumann, Warren R., Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical conductor contact clip. 1,948,309; Feb. 20.
New England Lace Mills, Inc. (See Springthorpe, Alec, assignor.)
New England Lace Mills, Inc. (See Truman, Frederick, assignor.)
Newhouse, Ray C., Wauwatosa, Wis. Mixing apparatus. 1,947,487; Feb. 20.
Newhouse, Ray C., Wauwatosa, Wis. Producing construction material. 1,947,488; Feb. 20.
Newkirk, Burt L., Schenectady, N. Y., assignor to General Electric Company. Dry cleaning apparatus. 1,948,357; Feb. 20.
Newmann, John, Brooklyn, assignor to Charles G. Hensley, receiver, New York, N. Y. Crank connection for radial motors. 1,948,475; Feb. 20.
Nicholson, Frank H. (See Baughman, G. W., and Nicholson.)
Nies, John D., St. Charles, assignor to The Kimble Electric Co., Chicago, Ill. Automatic control for motors. 1,947,533; Feb. 20.
Nisson, Philip S., Brooklyn, N. Y., assignor to The Gray Processes Corporation, Newark, N. J. Refining apparatus. 1,948,126; Feb. 20.
Nitzschke, Oswin, Leverkusen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing alkaline earth metal oxides. 1,947,952; Feb. 20.
Nixon, Harry H. (See Knox, H. A., and Nixon.)
Noblitt, Quintin G., and E. C. Booth, Indianapolis, assignors to Noblitt-Sparks Industries, Inc., Columbus, Ind. Jack. 1,948,446; Feb. 20.
Noblitt-Sparks Industries, Inc. (See Noblitt, Q. G., and Booth, assignors.)
Nocken, Theodor. (See Neelmeier, W., Nocken, and Friedrich.)
Nold, William B., Chicago, Ill. Engine mounting. 1,947,489; Feb. 20.
Nolte, John J., Los Angeles, Calif. Producing frozen delicacies and container therefor. 1,947,872; Feb. 20.
Noonan, Harry, White Plains, assignor to The Drug Products Co., Inc., Long Island City, N. Y. Carron oil compound chlorinated cream. 1,947,568; Feb. 20.
Nordell, Carl H., Chicago, Ill. Screen. 1,948,125; Feb. 20.
Norden, Folke F. (See Conforti, C. M., and Norden.)
Nordmeyer, Gerald J., and T. W. Stone, Fort Wayne, Ind., assignors to The Koppers Company of Delaware and to The Western Gas Construction Company. Making carbureted water gas. 1,947,792; Feb. 20.
Norquist, Victor C., and E. E. Treanor, assignors to Butler Manufacturing Company, Kansas City, Mo. Clarifying system for dry cleaning solvents. 1,947,873; Feb. 20.
North American Chemical Company. (See Avery, Alfred H., assignor.)
Northup, Harry R., Des Moines, Iowa. Ironing board. 1,947,613; Feb. 20.
Norton, Bertram, Sandford Hall, Claverly, England. Method of and apparatus for treating coal slurry. 1,948,184; Feb. 20.
Notes, Bernard, Washington, D. C. Breast supporter. 1,948,076; Feb. 20.
Novak, Josef, and R. Kesselring, Novy Bohumin, Czechoslovakia. Ledeburitic prelliminary iron alloy free from graphite. 1,947,656; Feb. 20.
Novick, Abraham. (See Young, M. S., and Novick.)
Oberschlesischer Berg- und Hüttenmännischer. (See Hofmann, F., and Lang, assignors.)
O'Brien, Joseph L. (See Rose, G. W., and O'Brien.)
Offensend, Chase F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. Des. 91,536; Feb. 20.
Ogilvie, William, Solihull, assignors to B. S. A. Tools Limited, Birmingham, England. Centerless grinding machine. 1,948,392; Feb. 20.

Ohio Rubber Company, The. (See Bronson, Budd, assignor.)
Ohmer Fare Register Company. (See Wheelbarger, Albert S., assignor.)
Oilgear Company, The. (See Ferris, John P., assignor.)
Okonite-Callender Cable Company. (See Bennett, Charles F., assignor.)
Okonite-Callender Cable Company, The. (See Meyer, Fred C., assignor.)
Oliver, Wallace F., and J. R. Heidloff, Detroit, Mich., assignors to Hydraulic Brake Company, Los Angeles, Calif. Combination ullage rod and ventiduct. 1,948,310; Feb. 20.
O'Neil, Fred E., and J. F. Callahan, Niagara Falls, N. Y., assignors to Acheson Graphite Company. Electric furnace. 1,947,793; Feb. 20.
Orosz, John. (See Brosilow, L., Markoff, and Orosz.)
Orr, Clifford B., assignor to The General Tire & Rubber Company, Akron, Ohio. Vehicle tire. 1,948,311; Feb. 20.
Oster Manufacturing Company, The. (See Hyde, Ralph E., assignor.)
Otto, Josef, Cologne-Lindenthal, Germany. Beater bar mill with two beater bar disks rotating rapidly in opposite directions. 1,947,953; Feb. 20.
Owen, Eric W. B. (See Murphy, E. A., and Owen.)
Oxford Varnish Corporation, The. (See Casto, Lloyd V., assignor.)
Pacini, August J., Chicago, Ill., assignor to Milprint Products Corporation, Milwaukee, Wis. Increasing tensile strength of cellulose and product. 1,948,276; Feb. 20.
Package Machinery Company. (See Eubank, John T., assignor.)
Padgett, Joseph E., Toledo, Ohio. Shock absorber. 1,948,185; Feb. 20.
Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,537; Feb. 20.
Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,538; Feb. 20.
Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,539; Feb. 20.
Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 91,592; Feb. 20.
Page Steel and Wire Company. (See Lear, Clyde E., assignor.)
Palm, John V. O. (See Hopkins, B. F., and Palm.)
Paper Makers Chemical Corporation. (See Perry, Robert S., assignor.)
Paramount Publix Corporation. (See Hatherell, G. A., Ingman, and Garbutt, assignors.)
Paris Art Label Co. (See Mitchell, Thomas F., assignor.)
Parker, Earl S., Los Angeles, Calif., assignor, by mesne assignments, to The Buckeye Aluminum Company, Wooster, Ohio. Broiler and toaster. Re19,089; Feb. 20.
Parkes, Deric W., West Bromwich, England. Production of piperidine. 1,947,732; Feb. 20.
Parkhurst, George L., assignor to Standard Oil Company, Chicago, Ill. Dry cleaning fluid. 1,948,045; Feb. 20.
Parrigin, Homer P., and R. P. Currie, Gates, Tex., assignors to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,948,003; Feb. 20.
Parrish, Charles R., East Point, Ga. Table for constructing screens and the like. 1,947,794; Feb. 20.
Pasin, Antonio, assignor to Radio Steel & Mfg. Co., Chicago, Ill. Coaster wagon. Des. 91,540; Feb. 20.
Pass & Seymour, Inc. (See Despard, Victor R., assignor.)
Pass & Seymour, Inc. (See Russell, M. N., and Despard, assignors.)
Patent Product Corporation of Chicago. (See White, George H., assignor.)
Patten, Roger W., Framingham, Mass. Ski. Des. 91,593; Feb. 20.
Paxton Credit Corporation. (See Paxton, Hale, assignor.)
Paxton, Hale, Redlands, assignor to Paxton Credit Corporation, Sanger, Calif. Lidding and strapping machine. 1,947,917; Feb. 20.
Paxton, Hale, Redlands, assignor to Paxton Credit Corporation, Sanger, Calif. Combined cover press and strapper. 1,947,918; Feb. 20.
Payne, Alexander F., Redditch, England. Valve cotter for internal-combustion engines. 1,947,534; Feb. 20.
Payne, Raymond L., and G. E. Marica, Denver, Colo. Air conditioner and humidifier. 1,948,277; Feb. 20.
Payne, Raymond L., and G. E. Marica, Denver, Colo. Spray forming and air conditioning device. 1,948,278; Feb. 20.
Pealer, Robert B., assignor to The Borden Company, Warren, Ohio. Pipe threading machine. 1,947,874; Feb. 20.
Pedersen, Henry W., Berwyn, Ill. Kitchen utility cabinet. Des. 91,541; Feb. 20.
Peiser, Gustav. (See Borchers, A., and Peiser.)
Pen Electric Switch Co. (See Henning, Malcolm E., assignor.)
Pepper, David, Philadelphia, Pa. Cigar lighter. 1,948,186; Feb. 20.
Peremi, Edmund, Manhasset, and C. Kish, Elmhurst, assignors to General Bronze Corporation, Long Island City, N. Y. Governor for revolving doors. 1,947,733; Feb. 20.

Peress, Joseph S., Byfleet, assignor to Argonaut Corporation Limited, London, England. Hydraulic joint particularly suitable for diving dresses or apparatus. 1,947,657; Feb. 20.
Perfection Stove Company. (See Resek, Marc, assignor.)
Perry, David B., assignor to Morse Chain Company, Ithaca, N. Y. Power transmission chain. 1,947,734; Feb. 20.
Perry, Harold R., Swarthmore, Pa., assignor to The Lamson Company, Syracuse, N. Y. Manufacturing shoes. 1,948,127; Feb. 20.
Perry, Robert S., Cave Spring, Ga., assignor to Paper Makers Chemical Corporation, Kalamazoo, Mich. Production of sulphate of alumina. 1,948,004; Feb. 20.
Persch, Walther. (See Lautenschläger, C. L., Bockmühl, and Persch.)
Peter, Erich. (See Heilthaler, T., and Peter.)
Petersen, Edgar G., assignor to Pines Winterfront Company, Chicago, Ill. Radiator shutter. 1,947,875; Feb. 20.
Petroleum Rectifying Company of California. (See Fisher, Harmon F., assignor.)
Petroleum Rectifying Company of California. (See Garrison, M. E., and Van Loenen, assignors.)
Pfaff, Kaspar. (See Steindorff, A., Pfaff, and Erlenbach.)
Pflueger, Charles T., assignor to The Enterprize Manufacturing Company, Akron, Ohio. Metal minnow. 1,948,005; Feb. 20.
Phelps, Alva W. (See Shippy, L. C., Phelps, and Holmes.)
Phelps, Alva W., assignor to Delco-Remy Corporation, Anderson, Ind. Armature core insulating machine. 1,948,006; Feb. 20.
Phelps, Maurice W. (See Barber, W. R., Natwick, and Phelps.)
Philad Company, The. (See Decker, George, assignor.)
Phillips, Arthur V., London, Ontario, Canada, assignor to Kelvinator Corporation, Detroit, Mich. Refrigerated display case. 1,948,312; Feb. 20.
Phillips Petroleum Company. (See Riney, A. H., and Gibbs, assignors.)
Phoenix Glass Company. (See Smith, John C., assignor.)
Piland, Elisha F., Newport News, Va. Wall and floor stop. 1,947,954; Feb. 20.
Pines Winterfront Company. (See Petersen, Edgar G., assignor.)
Pittsburgh Research Corporation. (See Moore, William E., assignor.)
Pittsburgh Taximeter Company. (See Hennig, Fred, assignor.)
Pizzuto, Nicolas, San Luis Potosi, Mexico. Impeller and shaft therefor for use in centrifugal and turbine pumps. 1,947,658; Feb. 20.
Poeggel, Erich, Remscheid, Germany. Grinding and polishing device. 1,948,128; Feb. 20.
Poeter, E., & Co. (See Poeter, Edward, assignor.)
Poeter, Edward, assignor to E. Poeter & Co., Irvington, N. J. Fastening device. 1,947,490; Feb. 20.
Poeter, Edward, assignor to E. Poeter & Co., Irvington, N. J. Hand bag frame. 1,948,393; Feb. 20.
Poole, Lora E., assignor to Delco-Remy Corporation, Anderson, Ind. Facing apparatus. 1,947,659; Feb. 20.
Popham, William J., Detroit, Mich., assignor to Minnesota Metallurgical Co., Minneapolis, Minn. Producing steel. 1,947,735; Feb. 20.
Popp, Leonard A., Saugus, assignor to Lynn Products Co., Lynn, Mass. Fuel-oil burner. 1,948,394; Feb. 20.
Portable Adding Machine Company. (See Barrett, Glenn J., assignor.)
Post, William L., Detroit, Mich. Photographic printing machine. 1,947,795; Feb. 20.
Posthumus, Klaas, Eindhoven, Netherlands, assignor to Radio Corporation of America. Detector circuit. 1,947,569; Feb. 20.
Potter, Albert T., Detroit, Mich., assignor to Ainsworth Manufacturing Corporation. Frame corner bead. 1,947,736; Feb. 20.
Potter, Rossiter R., and S. G. Russell, assignors to Shakespeare Products Company, Kalamazoo, Mich. Fastening. 1,947,921; Feb. 20.
Powell, Edward R., assignor to Banner Rock Corporation, Alexandria, Ind. Apparatus for producing rock wool products. 1,948,395; Feb. 20.
Powelson, Wilfrid Van N., New York, N. Y. Removing water of crystallization from crystals and/or solids. 1,948,313; Feb. 20.
Power Gas Corporation Limited, The. (See Rambush, Niels E., assignor.)
Pranke, Edward J., Bayside, N. Y., assignor to Grangers Manufacturing Company, Boston, Mass. Treatment of sodium calcium cyanide. 1,947,570; Feb. 20.
Pratt, Lester A., Winchester, and G. E. Gould, Melrose, assignors to Merrimac Chemical Company, Everett, Mass. Manufacture of paper utensils. 1,948,314; Feb. 20.
Prentiss, Augustin M., San Antonio, Tex., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 1,947,919; Feb. 20.
Prescott, John O., Madison, and E. W. Franck, Paterson, N. J., assignors to Columbia Phonograph Company, Inc., Bridgeport, Conn. Conveyer stop announcing system. 1,948,077; Feb. 20.
Price, Daniel J., Mullen, Tex. Concrete mixer. 1,948,226; Feb. 20.
Primrose, Donald L., Baltimore, Md. Display device. 1,947,920; Feb. 20.
Prince, Earl S., Sterling, Ill. Ice cream cabinet. 1,947,571; Feb. 20.
Prince, William E., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for testing electrical conductors. 1,948,238; Feb. 20.
Pudelko, Riccard, Zug, Switzerland, assignor to Landis & Gyr, A.-G. Electricity meter. 1,947,737; Feb. 20.
Pugh, Emerson, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating materials. 1,947,545; Feb. 20.
Pullman Company, The. (See Marshall, Frank O., assignor.)
Putnam, Joseph F., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Preventing corrosion of metallic objects. 1,948,007; Feb. 20.
Rader, Earl D. (See Mensman, C. J., and Rader.)
Radford, William H., assignor to Caterpillar Tractor Co., San Leandro, Calif. Generator mounting. 1,947,796; Feb. 20.
Radford, William H., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Filler cap. 1,947,797; Feb. 20.
Radio Corporation of America. (See Barden, William S., assignor.)
Radio Corporation of America. (See Bedford, Alda V., assignor.)
Radio Corporation of America. (See Deutscher, Oscar C., assignor.)
Radio Corporation of America. (See Finch, James L., assignor.)
Radio Corporation of America. (See Hull, Lewis M., assignor.)
Radio Corporation of America. (See Kellogg, Edward W., assignor.)
Radio Corporation of America. (See Loftis, Homer J., assignor.)
Radio Corporation of America. (See Maurer, John A., jr., assignor.)
Radio Corporation of America. (See Miessner, Benjamin F., assignor.)
Radio Corporation of America. (See Posthumus, Klaas, assignor.)
Radio Corporation of America. (See Roberts, Walter van B., assignor.)
Radio Corporation of America. (See Vermeulen, R., Van Urk, and Loman, assignors.)
Radio Research Laboratories Inc. (See Haffcke, Philip M., assignor.)
Radio Research Laboratories, Inc. (See Heany, J. A., and Haffcke, assignors.)
Radio Steel & Mfg. Co. (See Pasin, Antonio, assignor.)
Raepsaet, Maurice P. H. L., Aurec-sur-Loire, France, assignor to Societe Belge du Caoutchouc Mousse, Berchem-Ste-Agathe, near Brussels, Belgium. Manufacture of articles of cellular rubber and ebonite with closed cells. 1,948,046; Feb. 20.
Raffel, Waldemar J. A., Dayton, Ohio. Radio receiving apparatus. 1,947,660; Feb. 20.
Ragan, Ralph, Atlanta, Ga., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Machine for making heddles. 1,948,129; Feb. 20.
Railroad Accessories Corporation. (See Lavarack, William H. B., assignor.)
Rambush, Niels E., assignor of one-half to The Power Gas Corporation Limited, Stockton-on-Tees, England. Manufacture of water gas. 1,947,614; Feb. 20.
Randa, General Conrad, et al., executors. (See Lederer, Anton.)
Randel, Wilbur S. (See Scholz, H. A., and Randel.)
Randell, Sumner S., Quincy, Mass. Applying fastener. 1,948,187; Feb. 20.
Rangel, Mauricio M., Hacienda de Nogueras, Colima, Mexico. Machine for cracking off shells of coquito nut and its similars. 1,948,396; Feb. 20.
Raut, Clarence H., Chicago, Ill. Shoe construction. 1,947,922; Feb. 20.
Ray-Glo Corporation. (See Cuyler, R. F., and Hartford, assignors.)
Reading, Raymond L. (See Fruth, H. F., and Reading.)
Reading, Raymond L., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating materials. 1,947,546; Feb. 20.
Rebl, Carl, Brooklyn, N. Y. Multifilament lamp. 1,948,428; Feb. 20.
Rechten, George, Hasbrouck Heights, assignor of one-third to I. W. Smith, Newark, N. J., and one-third to J. J. Keegan, Brooklyn, N. Y. Dispensing device. 1,948,227; Feb. 20.
Redd, William R., Western Springs, Ill., assignor to Milprint Products Corporation, Milwaukee, Wis. Apparatus for subjecting clothes to ultra-violet radiation and ozone in laundry operations. 1,948,289; Feb. 20.
Redd, William R., Western Springs, Ill., assignor to Milprint Products Corporation, Milwaukee, Wis. Ozone generator. 1,948,240; Feb. 20.
Reed, Clair S., assignor to Reynolds Spring Company, Jackson, Mich. Spring structure. 1,948,130; Feb. 20.
Reed, Webster C., Little Rock, Ark. Safety device for brake beams of railway cars. 1,947,615; Feb. 20.
Reiber, Albert H. (See Burcky, G. W., and Reiber.)
Reichardt, Herman, Hollywood, Calif. Swinging holder. 1,948,131; Feb. 20.
Reil, Anton, New York, N. Y. Key finding index. 1,948,358; Feb. 20.
Reilly, John H., assignor to The Dow Chemical Company, Midland, Mich. Preparing tetrachloroethylene. 1,947,491; Feb. 20.

Reinhardt, Ernest G., Port Jervis, N. Y. Socket structure. 1,947,798; Feb. 20.
Reiser, Edward A., Columbus, Ohio. Egg cup having a top. Des. 91,542; Feb. 20.
Reliable Electric Company. (See Rodormer, George W., assignor.)
Remac Patents Corporation. (See Spence, John L., jr., assignor.)
Remington Rand Inc. (See Wolters, Carl F., assignor.)
Research Corporation. (See Lawrence, Ernest O., assignor.)
Resek, Mare, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Fuel supply indicator for refrigerators. 1,948,447; Feb. 20.
Resinox Corporation. (See Irey, Kenneth M., assignor.)
Retel, Jules M. R., Neuilly-sur-Seine, France. Fuel pump. 1,948,047; Feb. 20.
Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Lip stick. 1,947,738; Feb. 20.
Revertex Limited. (See Miedel, Hermann, assignor.)
Reyburn, John R., Fairfield, Conn., assignor to American Chain Company Inc. Chain connecter. 1,947,739; Feb. 20.
Reynolds, Edwin, Vineland, N. J. End piece for spectacles or similar articles. Des. 91,543; Feb. 20.
Reynolds Metals Company. (See Minnice, Hector M., assignor.)
Reynolds Spring Company. (See Reed, Clair S., assignor.)
Reynolds Spring Company. (See Swan, Travers J., assignor.)
Rhoads, Joseph E., Wilmington, Del., and G. H. White, Philadelphia, Pa., assignors, by mesne assignments, to C. A. Macomic, Chicago, Ill. Pump for molten metal and the like. 1,947,876; Feb. 20.
Rhode Island Warp Stop Equipment Company. (See Smith, Edwin C., assignor.)
Rickel, William C., Bethel, Kans. Concentrating machine. 1,947,877; Feb. 20.
Ricketts, Bruce A. (See Ricketts, Roland C., assignor.)
Ricketts, Roland C., assignor of one-third to B. A. Ricketts, Sunnymead, Calif. Brooder. 1,948,132; Feb. 20.
Ricks, Hyrum, Huntington Park, Calif., assignor, by mesne assignments, to Lathrop Investment Corporation. Wheeled scraper. 1,947,661; Feb. 20.
Riebeck'sche, A., Montanwerke Aktiengesellschaft. (See Heilthaler, T., and Peter, assignors.)
Riley, Ruth V., Fayetteville, Ark. Enclosure for bed. 1,948,048; Feb. 20.
Riney, Arthur H., and L. T. Gibbs, assignors to Phillips Petroleum Company, Bartlesville, Okla. Pipe line. 1,947,616; Feb. 20.
Ringenberg, John A., Tulsa, Okla., assignor to Tom G. Boman, Grand Rapids, Mich. Self-locking coin lid for bottles. 1,948,133; Feb. 20.
Riverside Cement Company. (See Starke, Howard R., assignor.)
Robb, John D. (See Russell, A. N., and Robb.)
Roberts, David B., Hartford, Conn. Oil burner. 1,948,188; Feb. 20.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Superregenerative receiver. 1,948,315; Feb. 20.
Robinson, Edward E., Belleville, N. J. Brush construction. 1,948,429; Feb. 20.
Robinson, Eugene O., assignor of one-half to T. Blakemore, Hutchinson, Kans. Ice-scoring machine. 1,947,740; Feb. 20.
Robinson, Frank W., assignor to Schuylkill Hosiery Mills, Reading, Pa. Reciprocatively operated knitting machine. 1,947,617; Feb. 20.
Robinson, Harry G., Stratford, assignor to Industries of America, Incorporated, Bridgeport, Conn. Fastening wheels to spindles. 1,947,662; Feb. 20.
Robinson, John E., Kidderminster, England. Securing flanges to bobbins. 1,948,430; Feb. 20.
Rockwell, Edward A. (See Evans, E. R., and Rockwell.)
Rockwell, Edward A., Long Island City, N. Y. Mechanical power brake. 1,948,359; Feb. 20.
Rockwell, Willard F., Pittsburgh, and H. W. Alden, assignors to The Timken-Detroit Axle Company, Detroit, Mich. Vehicle drive and braking apparatus. 1,948,397; Feb. 20.
Rodormer, George W., Park Ridge, assignor to Reliable Electric Company, Chicago, Ill. Telephone station outdoor protector. 1,948,078; Feb. 20.
Roggensack, Lutie A., Moorhead, Minn. Overcoming side draft. 1,947,492; Feb. 20.
Rohl, Fritz F. (See Hofmann, F. C., and Rohl.)
Rohn, Wilhelm, Hanau-on-the-Main, Germany. Turbine blade. 1,948,448; Feb. 20.
Rola Company, The. (See Engholm, Bernard A., assignor.)
Rolph, William M., Piccadilly, London, England. Mixing device. 1,948,481; Feb. 20.
Roper, Geo. D., Corporation. (See Hobson, Stanley H., assignor.)
Rose, Anthony A., Oakland, assignor to M. J. F. Hamilton, Los Angeles, Calif. Display case and mounting therefor. 1,948,049; Feb. 20.
Rose-Engle Company. (See Rose, T. R., and Engle, assignors.)
Rose, George W., Oak Park, and J. L. O'Brien, Elmwood Park, Ill. Clamp. 1,948,134; Feb. 20.
Rose, John, Stockbridge, Mass. Magazine shaving brush. 1,948,398; Feb. 20.
Rose, Thomas R., and H. L. Engle, Calexico, Calif., assignors to Rhe-Engle Company. Coating of machine elements. 1,947,493; Feb. 20.
Rosenstein, Ludwig, assignor to Shell Development Company, San Francisco, Calif. Antiknock motor fuel. 1,948,449; Feb. 20.
Rosenthal, Sidney, Cedarhurst, N. Y. Button. Des. 91,594; Feb. 20.
Rossi, Domenic A., Springfield, Mass. Vehicle direction signal. 1,948,050; Feb. 20.
Rossman, Allen M., Wilmette, assignor, by mesne assignments, to Rossman, Sargent & Lundy Patents Corporation, Chicago, Ill. Electric railway system. 1,947,494; Feb. 20.
Rossman, Edwin F., assignor to Delco Products Corporation, Dayton, Ohio. Valve for shock absorbers. 1,948,008; Feb. 20.
Rossman, Sargent & Lundy Patents Corporation. (See Rossman, Allen M., assignor.)
Rossmann, Rudolf, Munich, assignor to TEFAG Textil Finanz A. G. Zurich, Switzerland. Weaving. 1,948,051; Feb. 20.
Routtenberg, Zacharia, Los Angeles, Calif. Sewing machine needle and cutter plate. 1,947,495; Feb. 20.
Rowe Slug Ejector Co. (See Gilchrist, W. L., and Hoofnagle.)
Rowe Vending Machine Corp. (See Gilchrist, William L., assignor.)
Royal, Celestian L. (See Masuda, R., Royal, and Marshall.)
Rupple, Harry W., Shaker Heights, assignor to The Cleveland Automatic Machine Company, Cleveland, Ohio. Stock gauge stop for machine tools. 1,947,799; Feb. 20.
Rupple, Harry W., Shaker Heights, assignor to The Cleveland Automatic Machine Company, Cleveland, Ohio. Double chuck machine tool. 1,947,800; Feb. 20.
Russell, Andrew N., and J. D. Robb, Lachine, Quebec, Quebec, Canada. Wood grinding machine. 1,948,189; Feb. 20.
Russell Manufacturing Company, The. (See Zimmer, Frederick J., assignor.)
Russell, Mark N., and V. R. Despard, assignors to Pass & Seymour, Inc., Syracuse, N. Y. Electric switch. 1,948,399; Feb. 20.
Russell, Olin F., Los Angeles, Calif. Valve. 1,947,878; Feb. 20.
Russell, Rufus W., East Cleveland, Ohio. Adjustable table. 1,947,801; Feb. 20.
Russell, Samuel G. (See Potter, R. R., and Russell.)
Rutter, Alvah E., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Hay rake. 1,947,572; Feb. 20.
Ryan, John F., Cadillac, Mich. Oil burner. 1,947,741; Feb. 20.
Ryde, John W. (See Francis, V. J., and Ryde.)
Sabbah, Camil A., Schenectady, N. Y., assignor to General Electric Company. Electric valve converting system. 1,948,360; Feb. 20.
Sabon, Raoul, Bordeaux, France. Automatic pencil. 1,947,802; Feb. 20.
Sack, Arthur H. (See Heitman, E., and Sack, assignor.)
Sandberg, David E., and E. Sandberg, Minneapolis, Minn. Receptacle holder. 1,947,879; Feb. 20.
Sandberg, Egnar. (See Sandberg, David E. and E.)
Sandman, Edgar F., Willoughby, Ohio. Windshield wiper. 1,947,803; Feb. 20.
Sands, Charles C., Cleveland, Ohio, assignor to Zenith-Detroit Corporation, Detroit, Mich. Carburetor. 1,948,135; Feb. 20.
Sanford, Roy S., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,947,880; Feb. 20.
Sangamo Company Limited. (See Waite, G. G., and Lawrence, assignors.)
Sattley Company. (See Bock, Alfred C. O., assignor.)
Saunders, Tunis, and J. Castline, Paterson, assignors of one-third to said Saunders, one-third to said Castline, and one-third to M. Bernstein, Paterson, N. J. Folding wringer. 1,948,009; Feb. 20.
Saurer, Curt, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Rubber shock and vibration insulator. 1,948,476; Feb. 20.
Sawin, Lester M., Chicago, Ill. Package wrapper and package formed therewith. 1,947,618; Feb. 20.
Schagerholm, Harold. (See Mosfelt, H. T., and Schagerholm.)
Scheckler, Gordon F., assignor of one-half to R. C. Zuckerman, Stockton, Calif. Dual tire wheel. 1,948,136; Feb. 20.
Schellens, Eugene L., Ridgewood, assignor to C-S Engineering Company, Englewood, N. J. Hydraulically-controlled valve. 1,947,742; Feb. 20.
Schettler, Gustav A., Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Maine. Staking machine. 1,947,619; Feb. 20.
Schicht, Heinrich, Huckeswagen, assignor to firm: W. Ferd. Klingelnberg Söhne, Remscheid-Berghausen, Germany. Automatic machine for hardening gears. 1,948,480; Feb. 20.
Schildman, William F., assignor to American Copper & Brass Works, Cincinnati, Ohio. Pasteurizing holder. 1,948,279; Feb. 20.
Schildman, William F., assignor to American Copper & Brass Works, Cincinnati, Ohio. Milk processing machine. 1,948,280; Feb. 20.
Schiller, Clemens, Grantwood, N. J. Lace fabric or the like. Des. 91,595; Feb. 20.
Schindler, H., & Co. Inc. (See Hamburger, W. J., and Thayer, assignors.)

Schlared, Charles, assignor of one-half to Adolphus Viney, Columbus, Ohio. Antiglare device for motor vehicle headlights. 1,947,804; Feb. 20.
Schlenker, Max, La Salle, assignor to Western Clock Company, Peru, Ill. Clock case. Des. 91,544; Feb. 20.
Schlenstedt, Oswig, Mulhelm-Ruhr-Speldorf, assignor to Hydraulic, Gesellschaft mit beschrankter Haftung, Duisburg, Germany. Metal extrusion press. 1,948,400; Feb. 20.
Schlüns, Carl, Berlin-Steglitz, assignor, by mesne assignments, to Mercedes Büro-Maschinen-Werke Aktiengesellschaft, Zella-Mehlis, Thuringia, Germany. Calculating machine. 1,947,620; Feb. 20.
Schmidt, Alvin A., Bensenville, Ill. Old stone. 1,948,070; Feb. 20.
Schmidt, John, Buffalo, N. Y., assignor to Food Machinery Corporation, San Jose, Calif. Dripless nozzle for filling machines. 1,947,535; Feb. 20.
Schmidt, John J., assignor to The Frederick Iron & Steel Company, Frederick, Md. Kiln apparatus. 1,947,496; Feb. 20.
Schneider, Edwin J., Jamaica, and M. B. Bradt, Brooklyn, assignors, by mesne assignments, to General Cable Corporation, New York, N. Y. Electric conductor. 1,948,241; Feb. 20.
Schoeneck, Walter G., Mokena, Ill. Coupling connection for ensilage conduits. 1,947,743; Feb. 20.
Schoenholz, Irving. (See McCabe, C. J., and Schoenholz.)
Schrag, Joseph. (See Stafford, R. S., and Schrag.)
Schols, Herman A., Oak Park, assignor to United States Gypsum Company, Chicago, Ill. Water paint. 1,947,498; Feb. 20.
Schols, Herman A., Oak Park, Ill., and W. S. Randel, Farnams, Mass., assignors to United States Gypsum Company, Chicago, Ill. Water paint. 1,947,497; Feb. 20.
Schrader, Lloyd F., Ozone Park, and F. P. Hart, Whitestone, assignors to Semet-Solvay Engineering Corporation, New York, N. Y. By-product coke oven. 1,947,499; Feb. 20.
Schrader, Lloyd F., Ozone Park, and F. P. Hart, Whitestone, assignors to Semet-Solvay Engineering Corporation, New York, N. Y. Coke oven. 1,947,500; Feb. 20.
Schreiber, Ernst H., Los Angeles, Calif., assignor to American Telephone and Telegraph Company. Reverberation circuit. 1,947,621; Feb. 20.
Schubarth, Ernst, Menden, near Iserlohn, Germany. Pressing metal articles. 1,948,242; Feb. 20.
Schuler, Reuben. (See Buc, H. E., and Schuler.)
Schuls, Arthur P. (See Teller, J., and Schuls.)
Schutz, Harold R., assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Tumbler fluting machine. 1,947,881; Feb. 20.
Schuylkill Hosiery Mills. (See Robinson, Frank W., assignor.)
Schweer, Frederick W. (See Baldwin, P. C., and Schweer.)
Schweitzer, Eugen, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Device for measuring the ratio of the ingredients in a mixture of gases or liquids. 1,947,923; Feb. 20.
Schwentler, Francis E., assignor to The American Brake Company, St. Louis, Mo. Truck brake rigging. 1,947,675; Feb. 20.
Scofield, Philip F., Palo Alto, assignor to Heintz & Kaufman, Ltd., San Francisco, Calif. Modulated oscillator. 1,947,805; Feb. 20.
Scott, Estel. (See Stow, Clarence E., assignor.)
Scott, James W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Refining copper. 1,948,316; Feb. 20.
Scott, Philip L., Chicago, Ill., assignor to Super Diesel Tractor Corporation, La Porte, Ind. Injector. 1,947,578; Feb. 20.
Scott, Thomas R., and N. A. Allen, Aldwych, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Single core cable. 1,947,676; Feb. 20.
Scovill Manufacturing Company. (See Le Page, Albert L., assignor.)
Scovill Manufacturing Company. (See Reutter, Philip A., assignor.)
Seaman, William H., Hammond, Ind. Chilled roll. 1,948,243; Feb. 20.
Seaman, William H., Hammond, Ind. Chilled roll and making same. 1,948,244; Feb. 20.
Seaman, William H., Hammond, Ind. Chilled roll and making same. 1,948,245; Feb. 20.
Seaman, William H., Hammond, Ind. Metal roll. 1,948,246; Feb. 20.
Seamark, Lewis M. C., Chagford, England. "Snubbing" apparatus for oil wells. 1,947,622; Feb. 20.
Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. Des. 91,596; Feb. 20.
Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Center bar for ophthalmic mountings. Des. 91,597; Feb. 20.
Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. Des. 91,598; Feb. 20.
Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,947,882; Feb. 20.
Sebrell, Lorin B., and A. M. Clifford, Akron, Ohio, assignors to Wingfoot Corporation, Wilmington, Del. Vulcanization accelerator. 1,948,317; Fed. 20.
Seeger, Edwin W., Wauwatosa, and E. U. Lassen, West Allis, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Motor controller. 1,947,677; Feb. 20.
Self-Locking Carton Company. (See Walsh, John E., assignor.)
Semet-Solvay Engineering Corporation. (See Schrader, L. F., and Hart, assignors.)
Service Station Equipment Company. (See Barr, Giles V., assignor.)
Séry, Claude, Aix-en-Provence, assignor to Societe à Responsabilite limitee Etablissements Rotatiss, Paris, France. Machine for manufacturing tubular fabric. 1,947,924; Feb. 20.
Shackleton, Samuel P. (See Glezen, L. L., and Shackleton.)
Shakespeare Products Company. (See Potter, R. R., and Russell, assignors.)
Shakespeare Products Company. (See Shakespeare, William, jr., assignor.)
Shakespeare, William, jr., assignor to Shakespeare Products Company, Kalamazoo, Mich. Remote control device. 1,947,536; Feb. 20.
Sharp, William E., Chicago, Ill. Machine base. 1,947,501; Feb. 20.
Sheehan, William J. (See Kiernan, J. P., Cottle, and Sheehan.)
Sheets, Martin E. (See Harmon, Frank H., assignor.)
Shell Development Company. (See Rosenstein, Ludwig, assignor.)
Shelor, Frederick L., Sandston, assignor to Innovation Brakes Incorporated, Richmond, Va. Fluid pressure controlled brake mechanism. 1,948,190; Feb. 20.
Sherman, John Q., Dayton, Ohio. Manifold pack holder. 1,947,663; Feb. 20.
Shimer, John M., Wilkinsburg, assignor to Wilson-Snyder Manufacturing Corporation, Braddock, Pa. Liner packing sleeve. 1,947,623; Feb. 20.
Shinkle, Edward M., U. S. Army, Higginsport, Ohio. Stop for rotating parts. 1,947,502; Feb. 20.
Shippy, Leo C., A. W. Phelps, and J. Q. Holmes, assignors to Delco-Remy Corporation, Anderson, Ind. Metal cutting machine. 1,948,010; Feb. 20.
Shoemaker, William E., Freeport, assignor to Sinclair Refining Company, New York, N. Y. Price indicator. 1,948,191; Feb. 20.
Shunk, Walter C., Chicago, Ill. Protecting trailing cables. 1,947,503; Feb. 20.
Siegfried, Clarence E., Sandusky, Ohio, assignor, by mesne assignments, to Construction Materials Patents, Inc. Apparatus for vulcanising a molded strip. 1,948,011; Feb. 20.
Siemens & Halske Aktiengesellschaft. (See Brandenburger, Leo, assignor.)
Siemens & Halske Aktiengesellschaft. (See Fischer, Johannes, assignor.)
Silver, Joseph R., jr., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method of and apparatus for making battery plate separators. 1,948,081; Feb. 20.
Simonds, Warren J., assignor to Rodney Hunt Machine Company, Orange, Mass. Reenforced tank. 1,948,137; Feb. 20.
Simonds Worden White Company. (See Gloyd, Frank M., assignor.)
Simplex Paper Box Corporation. (See Gross, Ralph A., assignor.)
Sinclair Refining Company. (See Larson, Clifford M., assignor.)
Sinclair Refining Company. (See Shoemaker, William E., assignor.)
Sindler, Jay J., assignor to Hodgman Rubber Company, Framingham, Mass. Creping rubberized material. 1,948,138; Feb. 20.
Singer Manufacturing Company. (See Chason, Daniel H., assignor.)
Singer Manufacturing Company, The. (See Corrall, Herbert, assignor.)
Skinner, M. B., Co. (See McMurray, Frederick R., assignor.)
Slawson, Marion G., Girard, Kans. Warning signal for railway crossings. 1,947,925; Feb. 20.
Smith, A. O., Corporation. (See Crawford, William E., assignor.)
Smith, A. O., Corporation. (See Loughlin, James F., assignor.)
Smith, Edwin C., Providence, R. I., assignor to Rhode Island Warp Stop Equipment Company, Portland, Maine. Filling feeler for looms. 1,947,624; Feb. 20.
Smith, Franklin D., Kirkwood, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Decolorizing esters. 1,948,281; Feb. 20.
Smith, George A., and J. F. Foster, Rawlins, Wyo. Paint mixer. 1,948,401; Feb. 20.
Smith, Ira W., et al. (See Rechten, George, assignor.)
Smith, James J., Philadelphia, Pa. Grease gun attachment. 1,948,318; Feb. 20.
Smith, John A., Arlington, assignor to Hood Rubber Company, Inc., Watertown, Mass. Battery container. Des. 91,572; Feb. 20.
Smith, John C., Beaver, assignor of one-half to Phoenix Glass Company, Monaca, Pa. Lamp globe fitting. 1,947,806; Feb. 20.
Smith, Roy D., Lyons, Kans. Collapsible form for concrete constructions. 1,947,625; Feb. 20.

Smith, Russell T., assignor to Gibson Refrigerator Company, Greenville, Mich. Refrigerator constuction. 1,947,807; Feb. 20.
Smith, Walter E., Honolulu, Hawaii. System of vacuum pan contol. 1,948,052; Feb. 20.
Smith, Walter V., South Hadley Falls, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Deflating pneumatic tubes. 1,947,678; Feb. 20.
Smitmans, John A., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Rotary flying shear. 1,948,139; Feb. 20.
Snyder, Samuel E., Brooklyn, N. Y. Window shade. 1,948,432; Feb. 20.
Snyder, Thomas A., Milwaukee, Wis. Endless tread belt link. 1,947,883; Feb. 20.
Snyder, Willoughby E., Allentown, Pa. Making cement. 1,948,433; Feb. 20.
Società Italiana Pirelli. (See Emanueli, Luigi, assignor.)
Societe à Responsabilite limitee Etablissements Rotatiss. (See Séry, Claude, assignor.)
Societe Belge du Caoutchouc Mousse. (See Raepsaet, Maurice P. H. L., assignor.)
Society of Chemical Industry in Basle. (See Felix, F., and Huber, assignors.)
Society of Chemical Industry in Basle. (See Misslin, E. E., and von Capeller, assignors.)
Society of Chemical Industry in Basle. (See Müller, J., and Stocker, assignors.)
Socony-Vacuum Corporation. (See Young, M. S., and Novick, assignors.)
Sollie, Sigurd A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Sound reproducer. 1,948,361; Feb. 20.
Somerville, David J. (See Codney, A. O., and Somerville.)
Sonneborn, L., Sons, Inc. (See Liberthson, Leo, assignor.)
Southwest Street Company. (See Clarke, Harry S.)
Spagna, Calisto, Wheeler, Ind. Track jack. 1,947,537; Feb. 20.
Special Equipment Company. (See Ewald, Mark, assignor.)
Spellman, Charles B., Collingswood, N. J., assignor to I. P. Morris & De La Vergne, Incorporated. Apparatus for controlling pump and turbine operations. 1,947,808; Feb. 20.
Spence, John L., jr., assignor, by mesne assignments, to Remac Patents Corporation, New York, N. Y. Numbering moving picture films and apparatus therefor. 1,948,319; Feb. 20.
Spencer, John A., Newtonville, assignor to General Plate Company, Attleboro, Mass. Control. 1,947,884; Feb. 20.
Spicer, William E. (See Watts, R. N., and Spicer.)
Spindler, Fritz, St. Louis, Mo. Price tag holder. 1,948,053; Feb. 20.
Sprengnether, William F., St. Louis, Mo. Miner's compass or dip needle. 1,947,809; Feb. 20.
Springthorpe, Alec, Pawtucket, R. I., assignor to New England Lace Mills, Inc., New York, N. Y. Lace. Des. 91,559; Feb. 20.
Stacks, Howard R. (See Turner, H. C., and Stacks.)
Stafford, Robert S., and J. Schrag, San Antonio, Tex.; said Schrag assignor to said Stafford. Automobile tire changing machine. 1,948,434; Feb. 20.
Standard Alcohol Company. (See Brooks, Benjamin T., assignor.)
Standard-I. G. Company. (See Harding, Clark T., assignor.)
Standard-I. G. Company. (See Watts, Rhea N., assignor.)
Standard-I. G. Company. (See Watts, R. N., and Spicer, assignors.)
Standard Mirror Company. (See La Hodny, William, assignor.)
Standard Oil Company. (See Adams, Chester E., assignor.)
Standard Oil Company. (See Bahlke, W. H., and Thiele, assignors.)
Standard Oil Company. (See Parkhurst, George L., assignor.)
Standard Oil Company of California. (See Edwards, Samuel H., assignor.)
Standard Oil Company of California. (See Handy, John C., assignor.)
Standard Oil Company of California. (See Putnam, Joseph F., assignor.)
Standard Oil Development Company. (See Buc, H. E., and Schuler, assignors.)
Standard Oil Development Company. (See Davis, C. H. B., and Franceway, assignors.)
Standard Oil Development Company. (See Ellis, Carleton, assignor.)
Standard Oil Development Company. (See Hopkins, Marion B., assignor.)
Standard Oil Development Company. (See Howard, Frank A., assignor.)
Standard Oil Development Company. (See Montgomery, T., and Morrison, assignors.)
Standard Sand & Machine Company, The. (See Boughton, Harry E., assignor.)
Standard Sanitary Manufacturing Company. (See Brain, George, assignor.)
Standard Sanitary Manufacturing Company. (See Tafel, Theodore, jr., assignor.)
Standard Stoker Company, Incorporated, The. (See Lower, Nathan M., assignor.)
Standard Stoker Company, Incorporated, The. (See Turner, Edwin A., assignor.)
Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning means. 1,947,744; Feb. 20.
Stangeland, Ole, Chicago, Ill. Free wheel and back stop device. 1,948,082; Feb. 20.
Stansbury, Miller, Washington, D. C. Radiocabinet or the like. Des. 91,545; Feb. 20.
Stargardter, Albert R., Brookline, assignor to Gillette Safety Razor Company, Boston, Mass. Treating steel. 1,948,192; Feb. 20.
Starke, Howard R., Riverside, assignor to Riverside Cement Company, Los Angeles, Calif. Cement product and making the same. 1,947,504; Feb. 20.
Starr, James H., Oak Park, assignor to Electrical Engineers Equipment Company, Melrose Park, Ill. Dashpot. 1,947,810; Feb. 20.
Staude, Edwin G., Minneapolis, Minn. Lined moisture-proof carton and making same. 1,947,664; Feb. 20.
Staude, Edwin G., Minneapolis, Minn. Blank feeder. 1,948,362; Feb. 20.
Steel Heddle Manufacturing Company. (See Kaufmann, John J., assignor.)
Steel Heddle Manufacturing Company. (See Ragan, Ralph, assignor.)
Steffen, Ernest, San Francisco, Calif. Finger ring. Des. 91,546; Feb. 20.
Steffen, Ernest, San Francisco, Calif. Finger ring. Des. 91,547; Feb. 20.
Stein, Berthold. (See Nawiasky, P., Krause, and Stein.)
Stein, Leonhard. (See Bockmühl, M., Ehrhart, and Stein.)
Stein, Raphael, assignor of one half to D. T. Berlizheimer, Philadelphia, Pa. Brake. 1,947,811; Feb. 20.
Steindorff, Adolf, K. Pfaff, and M. Erlenbach, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Seed grain dressings and preparing them. 1,947,926; Feb. 20.
Stephan, Hallis N. (See Lucas, H. M., and Stephan, assignors.)
Steps, Robert A., Los Angeles, Calif. Master cycle control apparatus. 1,947,679; Feb. 20.
Stevens, Perry H. (See Fissell, Grant W., assignor.)
Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Friction draft gear. 1,947,812; Feb. 20.
Stevens, William A. (See Guy, Sydney S., and Stevens.)
Stewart, Alexander. (See Macarthur, A., and Stewart.)
Stewart, M. F., Manufacturing Company. (See Fowler, Frederick E., assignor.)
Stewart-Warner Corporation. (See Whitted, John B., assignor.)
Stimpson, Edwin B., Company. (See Stimpson, Edwin B., assignor.)
Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet setting machine. 1,947,680; Feb. 20.
Stocker, Robert. (See Müller, J., and Stocker.)
Stokes, Charles J., assignor of one half to A. Bennett, London, England. Camera back and shutter. 1,948,141; Feb. 20.
Stone, Abraham, Brooklyn, N. Y. Collapsible wardrobe. 1,947,955; Feb. 20.
Stone, Donald D. (See Dolza, J., and Stone.)
Stone, Thomas W. (See Nordmeyer, G. J., and Stone.)
Stow, Clarence E., Tulsa, Okla., assignor to Estel Scott, Kansas City, Mo. Electric switch. 1,947,681; Feb. 20.
Streimler, Charles H., New York, N. Y. Plaque. Des. 91,548; Feb. 20.
Springfellow, Brue W., Culpeper, Va. Dispensing device. 1,948,054; Feb. 20.
Strohl, Harrison A., Nesquehoning, Pa. Siphon gravity separator. 1,948,140; Feb. 20.
Subkow, Philip. (See Merrill, D. R., and Subkow.)
Suggs, Thomas F. (See Whitener, E. K., and Suggs.)
Suker, Herbert R., Lower Gwynedd, Pa. Lamp bracket. Des. 91,573; Feb. 20.
Summers, Caleb E., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Vibration damper. 1,948,247; Feb. 20.
Sun Oil Company. (See Alleman, G., and Musante, assignors.)
Sundback, Gideon, assignor to Hookless Fastener Company, Meadville, Pa. Fastener forming and assembling machine and method of securing fastener elements to tape. 1,947,956; Feb. 20.
Sunlight Electrcal Company. (See Kingston, Frederick S., assignor.)
Sunnen, Joseph, Kirkwood, Mo. Valve lifter. 1,948,248; Feb. 20.
Super Diesel Tractor Corporation. (See Scott, Philip L., assignor.)
Svenska Hammaraktiebolaget. (See Weibull, Ernst H. W. W., assignor.)
Swain, Joseph G., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Wheel assembly. 1,948,320; Feb. 20.
Swan, Travers J., Detroit, assignor to Reynolds Spring Company, Jackson, Mich. Roof bow trim rail. 1,947,682; Feb. 20.
Sweek, Nora K. (See English, Vernal E., assignor.)
Swift, Claude E. (See Bray, U. B., and Swift.)
Swift, Claude E. (See Garofalo, R. J., and Swift.)
Swift, George W., jr., assignor to George W. Swift, jr., Inc., Bordentown, N. J. Blank-feeding machine. 1,948,142; Feb. 20.

Swift, George W., jr., Inc. (See Swift, George W., jr., assignor.)
Swishelm Veneer Co., The. (See Boren, Fred, assignor.)
Tafel, Theodore, jr., Ben Avon, Pa., assignor to Standard Sanitary Manufacturing Company. Motor and pump mounting. 1,947,665; Feb. 20.
Tarr, Omar F., Stoneleigh, Md., assignor to Mutual Chemical Company of America, New York, N. Y. Manufacture of chromates. 1,948,143; Feb. 20.
Taub, Ludwig. (See Kropp, W., and Taub.)
Tautz, Herbert E., assignor to The Delta Manufacturing Company, Milwaukee, Wis. Work guide. 1,947,885; Feb. 20.
Taylor, Eugene V., Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind. Brake mechanism. 1,947,886; Feb. 20.
Taylor, Joseph B., Allendale, N. J., assignor to By-Products Recoveries, Inc., New York, N. Y. Dust separator. 1,948,363; Feb. 20.
Taylor, Mrs. M. J. (See Bolster, Albert W., assignor.)
Taylor, William H., Des Moines, Iowa. Trunk and carrier for automobiles. 1,947,745; Feb. 20.
Technical Tool Company. (See Abola, Harold, assignor.)
Teeter, Wilford H., assignor to Delco Products Corporation, Dayton, Ohio. Charge forming device. 1,948,012; Feb. 20.
TEFAG Textil Finanz A. G. (See Rossmann, Rudolf, assignor.)
Teletype Corporation. (See Burcky, C. W., and Reiber, assignors.)
Teller, George L. (See Kellogg, J. H., and G. L. and W. K. Teller.)
Teller, Jacob, New Rochelle, and A. P. Schulz, New York, N. Y., assignors, by mesne assignments, to Teller Stove Designing Corporation. Detachable unit table top electric range. 1,948,402; Feb. 20.
Teller Stove Designing Corporation. (See Teller, J., and Schulz, assignors.)
Teller, William K. (See Kellogg, J. H., and G. L. and W. K. Teller.)
Texas Company, The. (See Parrigin, H. P., and Currie, assignors.)
Thalhammer, Karl W., Los Angeles, Calif. Camera head. 1,948,055; Feb. 20.
Thayer, Warren L. (See Hamburger, W. J., and Thayer.)
Theriot, James E., San Jose, Calif. Lock. 1,947,813; Feb. 20.
Thermatomic Carbon Company. (See Miller, Carroll, assignor.)
Thermo Electric Company. (See Hermann, Otto, assignor.)
Thiele, Ernest W. (See Bahlke, W. H., and Thiele.)
Thomas, Charles A., assignor, by mesne assignments, to Dayton Synthetic Chemicals, Inc., Dayton, Ohio. Prepared resin. 1,947,626; Feb. 20.
Thomas, John R., Wilkes-Barre, Pa. Holder. 1,948,403; Feb. 20.
Thomas, Percy H., Upper Montclair, N. J. Magnetic ore separator for wet and other operations. 1,948,080; Feb. 20.
Thompson, Albert R., assignor to Food Machinery Corporation, San Jose, Calif. Can handling apparatus. 1,948,435; Feb. 20.
Thompson, Carl B., assignor to Bendix Brake Company, South Bend, Ind. Brake band. 1,947,887; Feb. 20.
Thompson, Charles S., Elmhurst, assignor to Union Special Machine Company, Chicago, Ill. Resilient mounting for sewing machines or the like. 1,948,193; Feb. 20.
Thompson, Lester O., Oklahoma City, Okla. Fusible blowout plug. 1,948,056; Feb. 20.
Thompson, Parke H. (See Headley, B. T., and Thompson.)
Thompson Products, Inc. (See Burkhardt, Otto M., assignor.)
Thomson, David F., Melrose, assignor to The Forbes Lithograph Manufacturing Company, Boston, Mass. Display stand. 1,947,746; Feb. 20.
Thomson, Robert F. (See Jones, D. C. R., and Thomson.)
Thorne, Carl B., Hawkesbury, Ontario, Canada. Process and apparatus for the manufacture of pulp. 1,947,888; Feb. 20.
Thorne, Carl B., Hawkesbury, Ontario, Canada. Process and apparatus for the manufacture of pulp. 1,947,889; Feb. 20.
Thum, Walter A., St. Louis, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for attaching heels to lasted shoes. 1,947,666; Feb. 20.
Tillman, John R., Bridgeport, Conn., assignor to The Bullard Company. Workholder. 1,947,957; Feb. 20.
Timken-Detroit Axle Company, The. (See Rockwell, W. F., and Alden, assignors.)
Townsend, Albert J., Lima, Ohio. Railway vehicle. 1,947,683; Feb. 20.
Town Talk Manufacturing Company. (See Meyer, Eugene F., assignor.)
Trautmann, Otto E., Ironbound, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Instrument stand. Des. 91,574; Feb. 20.
Treanor, Earl E. (See Norquist, V. C., and Treanor.)
Tregoning, William C., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric candle socket. 1,948,144; Feb. 20.
Tremolieres, Gustave H., Neuilly-sur-Seine, France. Mechanical power transmission chain. 1,948,404; Feb. 20.
Tremper, John F., Newport News, Va. Holly wreath. Des. 91,549; Feb. 20.
Troy Laundry Machinery Co. (See Harlan, Howard H., assignor.)
Truman, Frederick, Pawtucket, R. I., assignor to New England Lace Mills, Inc., New York, N. Y. Lace. Des. 91,600; Feb. 20.
Trutner, Donald G. (See Anderson, V., and Trutner.)
Tscherne, Alois, Rorschaach, Switzerland. Rotary cutting tool. 1,948,057; Feb. 20.
Turner, Edwin A., New York, N. Y., assignor to The Standard Stoker Company, Incorporated. Stoker mechanism. 1,947,684; Feb. 20.
Turner, Edwin A., New York, N. Y., assignor to The Standard Stoker Company, Incorporated. Stoker mechanism. 1,947,685; Feb. 20.
Turner, Harry E., Los Angeles, Calif. Instrument for indicating the required voltage for making radiographs. 1,948,013; Feb. 20.
Turner, Hughes C., and H. B. Stacks, Detroit, Mich.; said Stacks assignor to said Turner. Display mechanism. 1,947,814; Feb. 20.
Turner, John B., Sasakwa, Okla. Oil emulsion treating apparatus. 1,948,481; Feb. 20.
Turner Tanning Machinery Company, The. (See Schettler, Gustav A., assignor.)
Tuttle, Florence K., San Francisco, Calif. Lingerie drier. 1,948,014; Feb. 20.
Twin Coach Company. (See Fageol, William B., assignor.)
Twiss, Douglas F., Wylde Green, Birmingham, and A. E. T. Neale, Ward End, Birmingham, assignors to Dunlop Rubber Company, Limited, England. Forming ball centers. 1,947,539; Feb. 20.
Tyden, Emil, Hastings, Mich. Fire-extinguishing apparatus. 1,947,890; Feb. 20.
Underwood, Cecil H., Oakland, Calif. Spurious coin detector. 1,947,538; Feb. 20.
Union Oil Company of California. (See Bray, U. B., and Swift, assignors.)
Union Oil Company of California. (See Garofalo, Ross J., assignor.)
Union Oil Company of California. (See Garofalo, R. J., and Swift, assignors.)
Union Oil Company of California. (See Haylett, Robert E., assignor.)
Union Oil Company of California. (See Merrill, D. R., and Subkow, assignors.)
Union Special Machine Company. (See Thompson, Charles S., assignor.)
Union Switch & Signal Company, The. (See Baughman, G. W., and Nicholson, assignors.)
Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)
United-Carr Fastener Corporation. (See Johnson, Gustav, assignor.)
United-Carr Fastener Corporation. (See McCabe, C. J., and Schoenholz, assignors.)
United-Carr Fastener Corporation. (See Upham, Preston, assignor.)
United Engineering & Foundry Company. (See Smitmans, John A., assignor.)
United Metal Goods Manufacturing Co. Inc. (See Levy, Abraham, assignor.)
United Shoe Machinery Corporation. (See Goddu, G., and MacKenzie, assignors.)
United Shoe Machinery Corporation. (See MacKenzie, Fred L., assignor.)
United Shoe Machinery Corporation. (See Standish, John F., assignor.)
United Shoe Machinery Corporation. (See Thum, Walter A., assignor.)
United States Gypsum Company. (See Scholz, Herman A., assignor.)
United States Gypsum Company. (See Scholz, H. A., and Randell, assignors.)
U. S. Industrial Alcohol Co. (See Carter, R. M., and Johnson, assignors.)
U. S. Slicing Machine Company. (See Van Berkel, Wilhelmus A., assignor.)
United States Tire Company. (See Hopkinson, Ernest, assignor.)
Universal Oil Products Company. (See Morrell, J. C., and Egloff, assignors.)
Universal Optical Corporation. (See Searles, Wayne S., assignor.)
Unyte Corporation. (See Eisemann, K., and Kollmann, assignors.)
Upham, Preston, Brookline, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener socket. 1,948,321; Feb. 20.
Urbain, Oliver M., Columbus, assignor to C. H. Lewis, Harpster, Ohio. Water purification. 1,947,747; Feb. 20.
Urban, George P., Buffalo, N. Y. Destroying insects. 1,948,228; Feb. 20.
Vallier, Elijah G., Wauwatosa, assignor to Western States Envelope Company, Milwaukee, Wis. Envelope. 1,947,815; Feb. 20.
Van Berkel, Wilhelmus A., Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,947,628; Feb. 20.
Van Dorn, Horace B., Maplewood, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Eraser tip for pencils. Des. 91,575; Feb. 20.
Van Loenen, William F. (See Garrison, M. E., and Van Loenen.)

Van Pelt, Elmer L., assignor to American Ball Mill Company, Denver, Colo. Grinding mill. 1,947,505; Feb. 20.
Van Urk, Arend T. (See Vermeulen, R., Van Urk, and Loman.)
Van Wormer, George, Hamilton, Ohio. Paper cleaning machine. 1,947,748; Feb. 20.
Variable Speed Gear Limited, The. (See Wallace, William, assignor.)
Vendi Cuter, Inc. (See McCormick, J. H., and Bender, assignors.)
Vermeulen, Roelof, A. T. Van Urk, and C. Loman, Eindhoven, Netherlands, assignors to Radio Corporation of America. Loud speaker. 1,947,749; Feb. 20.
Vicars, T. & T., Limited. (See Crosland, Edward M., assignor.)
Vickers-Armstrongs Limited. (See Larsson, C. A., and Higson, assignors.)
Victor, Julius, Detroit, Mich. Window scaffold. 1,947,629; Feb. 20.
Vincent, Harvard B. (See Firestone, F. A., Abbott, and Vincent.)
Viney, Adolphus. (See Schlared, Charles, assignor.)
Vogel, Ralph A., assignor to The Columbus Vending Company, Columbus, Ohio. Coin controlled vending machine. 1,947,891; Feb. 20.
Vogt, Charles H., Philadelphia, Pa. Treating sausages. 1,947,506; Feb. 20.
Von Capeller, Rudolf. (See Misslin, E. E., and von Capeller.)
Von Szeszich, Lajos, Constance, Germany. Destructive hydrogenation of carbonaceous materials. 1,948,058; Feb. 20.
Von Till, Louis A., Brooklyn, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Applicator package. 1,947,667; Feb. 20.
Vorwerk, Paul O. F., assignor to Corporation of Edelstahlwerk Rochling Aktiengesellschaft, Volklingen-on-the-Saar, Germany. Treating springs. 1,947,927; Feb. 20.
Vulcan Corporation, The. (See Clausing, George, assignor.)
W-R-M, Inc. (See Moore, David P., assignor.)
Wagner, George A. (See Wagner, Harold H., assignor.)
Wagner, Harold H., assignor of one-half to G. A. Wagner, Wausau, Wis. Piston. 1,948,405; Feb. 20.
Waite, Griffin G., and G. W. Lawrence, assignors to Sangamo Company Limited, Toronto, Ontario, Canada. Recording device for meters. 1,947,816; Feb. 20.
Wallace, George L., Leyden, assignor to The Fiberloid Corporation, Indian Orchard, Mass. Electroplating. 1,948,145; Feb. 20.
Wallace, William, Edinburgh, Scotland, assignor to The Variable Speed Gear Limited, Newcastle-upon-Tyne, England. Control gear for variable delivery pumps. 1,947,540; Feb. 20.
Wallis, John S., assignor to Alco Products, Incorporated, New York, N. Y. Fractionating vapors. 1,947,817; Feb. 20.
Walsh, Harry C. H., and E. H. Hall, Chicago, Ill. Power press control. 1,947,892; Feb. 20.
Walsh, Hazel B., Lansing, Mich. Apparatus for teaching music. 1,947,686; Feb. 20.
Walsh, John E., assignor to Self-Locking Carton Company, Chicago, Ill. Egg carton. 1,948,322; Feb. 20.
Warmisham, Arthur, assignor to The Bell & Howell Company, Chicago, Ill. Optical system. 1,947,668; Feb. 20.
Warmisham, Arthur, Evanston, and I. Cisski, assignors to The Bell & Howell Company, Chicago, Ill. Lens of variable equivalent focal length. 1,947,669; Feb. 20.
Warner Electric Brake Corporation. (See Cadman, Addi B., assignor.)
Warner, Franklin E., Seattle, Wash. Folding fruit box. 1,948,083; Feb. 20.
Warner Gear Company. (See Hedgeland, Marley C., assignor.)
Warren, John D., New York, N. Y. Mold. 1,948,146; Feb. 20.
Warren, John D., New York, N. Y. Confection mold. 1,948,147; Feb. 20.
Warshaw, Nathan, Brooklyn, N. Y. "Zipper" tape. 1,948,406; Feb. 20.
Watts, Rhea N., Baton Rouge, La., assignor to Standard-I. G. Company. Recovery of valuable constituents from hydrogenation catalysts. 1,948,407; Feb. 20.
Watts, Rhea N., and W. E. Spicer, Baton Rouge, La., assignors to Standard-I. G. Company. Preparing catalysts of increased activity. 1,948,408; Feb. 20.
Wayne, Herbert N., Santa Monica, Calif. Toilet valve. 1,947,627; Feb. 20.
Wean Engineering Company, The. (See Wean, R. J., and Evans, assignors.)
Wean, Raymond J., and A. D. Evans, assignors to The Wean Engineering Company, Incorporated, Warren, Ohio. Apparatus for rolling. 1,948,148; Feb. 20.
Weast, Victor R., Chicago, Ill. Apparatus for making coffee. 1,947,687; Feb. 20.
Weibull, Ernst H. W., Saltsjobaden, near Stockholm, assignor to Svenska Hammaraktiebolaget, Stockholm, Sweden. Striking tool. 1,948,409; Feb. 20.
Weisbrod, Karl. (See Hubert, E., and Weisbrod.)
Welch, Alfred F., Fort Wayne, Ind., assignor to General Electric Company. Clutch. 1,948,084; Feb. 20.
Welch, Sidney A., A. F. Guyler, J. T. Ashby, and W. H. Boaler, Spondon, near Derby, England, assignors to Celanese Corporation of America. Knitting machine. 1,947,958; Feb. 20.
Wells, John C. (See Anderson, J. L., and Wells.)
Wengel, Eugene, Detroit, Mich. Sausage machine. 1,946,541; Feb. 20.
Wentworth, Robert S., assignor to National Radiator Corporation, Johnstown, Pa. End section for convectors. 1,948,149; Feb. 20.
Wernert, Karl, Mulheim-on-the-Ruhr, Germany. Submersible pump. 1,947,630; Feb. 20.
Western Clock Company. (See Schlenker, Max, assignor.)
Western Electric Company. (See Carlson, Richard E., assignor.)
Western Electric Company. (See Freyman, Fred, assignor.)
Western Electric Company. (See Fruth, Hal F., assignor.)
Western Electric Company. (See Fruth, H. F., and Reading, assignors.)
Western Electric Company. (See Larsen, Henry M., assignor.)
Western Electric Company. (See Martindell, Frank, assignor.)
Western Electric Company. (See Martindell, F., and Miller, assignors.)
Western Electric Company. (See Neighbors, Charles C., assignor.)
Western Electric Company. (See Neumann, Warren R., assignor.)
Western Electric Company. (See Prince, William E., assignor.)
Western Electric Company. (See Pugh, Emerson, assignor.)
Western Electric Company. (See Reading, Raymond L., assignor.)
Western Electric Company. (See Scott, James W., assignor.)
Western Gas Construction Company, The. (See Barr, Walter A., assignor.)
Western States Envelope Company. (See Vallier, Elijah G., assignor.)
Western Union Telegraph Company, The. (See Haglund, Hakon H., assignor.)
Westinghouse Air Brake Company, The. (See Carthew, John W., assignor.)
Westinghouse Air Brake Company, The. (See Cheviliot, Alfred, assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Fitch, E. R., and Cook, assignors.)
Westinghouse Air Brake Company, The. (See Grosswege, John B., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Air Brake Company, The. (See Stevens, Roy R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dennison, Edward S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dickinson, Robert C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kruck, Ralph E., assignor.)
Wheary, George H., assignor to The Wheary Trunk Company, Racine, Wis. Hand luggage case. 1,947,542; Feb. 20.
Wheary Trunk Company, The. (See Wheary, George H., assignor.)
Wheelbarger, Albert S., assignor to Ohmer Fare Register Company, Dayton, Ohio. Date setting device. 1,947,893; Feb. 20.
Whidden, Arthur D., Elyria, Ohio. Fork for wheeled vehicles. 1,947,631; Feb. 20.
White Motor Company, The. (See Church, Harold D., assignor.)
White Motor Company, The. (See Cooper, Rolland M., assignor.)
White, Alfred H., Ann Arbor, Mich., and D. A. Fox, Milwaukee, Wis. Producer gas process using sodium carbonate. 1,948,085; Feb. 20.
White, Eugene O., Rochester, N. Y. Hydrostatic infusion apparatus. 1,948,015; Feb. 20.
White, George H. (See Rhoads, J. E., and White.)
White, George H., Philadelphia, Pa., assignor to Patent Product Corporation of Chicago, Chicago, Ill. Pump for pumping molten metal. 1,947,818; Feb. 20.
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Electrical connecter. 1,948,249; Feb. 20.
White Motor Company, The. (See Alborn, Frank G., assignor.)
White Motor Company, The. (See Church, Harold D., assignor.)
Whitehead Bros. Rubber Co., The. (See Williamson, Frederick B., jr., assignor.)
Whitener, Ernest K., and T. F. Suggs, assignors to Cocker Machine and Foundry Company, Gastonia, N. C. Electric circuit for controlling motors. 1,948,450; Feb. 20.
Whitted, John B., assignor to Stewart-Warner Corporation, Chicago, Ill. Clutch construction. 1,948,150; Feb. 20.
Whitworth, Stanley, assignor to Bendix Brake Company, South Bend, Ind. Brake shoe. 1,947,894; Feb. 20.

Wickwire Spencer Steel Company. (See Woodman, Frank, assignor.)
Wildt and Company Limited. (See Wildt, E., and Holmes, assignors.)
Wildt, Edwin, and H. H. Holmes, assignors to Wildt and Company Limited, Leicester, England. Knitting machine. 1,947,750; Feb. 20.
Wiley, Samuel, Metuchen, N. J. Shock absorber for parachutes. 1,947,507; Feb. 20.
Wilke, Norman M., Lakewood, Ohio. Catch basin header and throat. 1,948,016; Feb. 20.
Willard Storage Battery Company. (See Codney, A. O., and Somerville, assignors.)
Willard Storage Battery Company. (See Lormor, Henry W., assignor.)
Williams, Edward T., Pelham Manor, N. Y. Refrigeration apparatus. 1,947,574; Feb. 20.
Williams, Robert C., assignor, by mesne assignments, to The Ironsides Company, Columbus, Ohio. Metal-forming lubricants. 1,948,194; Feb. 20.
Williamson, Frederick B., jr., Elizabeth, assignor to The Whitehead Bros. Rubber Co., Trenton, N. J. Hose. 1,948,410; Feb. 20.
Williston, Belvin T., Somerville, Mass., assignor to Consolidated Ashcroft Hancock Company, New York, N. Y. Universal joint. 1,947,595; Feb. 20.
Willman, Philip E., Chicago, Ill. Pan or similar article. Des. 91,576; Feb. 20.
Willys-Overland Co., The. (See Huntington, Edward E., assignor.)
Wilson-Snyder Manufacturing Corporation. (See Shimer, John M., assignor.)
Wingfoot Corporation. (See Berwick, J. D., assignor.)
Wingfoot Corporation. (See Calvert, William C., assignor.)
Wingfoot Corporation. (See Carter, Raymond S., assignor.)
Wingfoot Corporation. (See Fischer, Wilhelm, assignor.)
Wingfoot Corporation. (See Haines, H. H., and Lange, assignors.)
Wingfoot Corporation. (See Kirk, Raphael S., assignor.)
Wingfoot Corporation. (See Maas, Elov F., assignor.)
Wingfoot Corporation. (See Sebrell, L. B., and Clifford.)
Wingfoot Corporation. (See Swain, Joseph G., assignor.)
Wingfoot Corporation. (See Wolfe, William D., assignor.)
Wingfoot Corporation. (See Woodward, Alva W., assignor.)
Winkler, Franz, Schweinfurt, Germany. Vehicle wheel hub. 1,947,960; Feb. 20.
Winkler, Franz, Schweinfurt, Germany. Free wheel hub with coaster brake. 1,947,961; Feb. 20.
Winslow, Catherine B. (See Winslow, Charles A., assignor.)
Winslow, Charles A., Vallejo, assignor to Catherine B. Winslow, Oakland, Calif. Fluid purifier. 1,948,282; Feb. 20.
Wintemberg, Adelbert C., St. Louis, Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Railway truck. 1,948,250; Feb. 20.
Winthrop Chemical Company, Inc. (See Bockmühl, M., Ehrhart, and Stein, assignors.)
Winthrop Chemical Company, Inc. (See Kropp, W., and Taub, assignors.)
Winthrop Chemical Company, Inc. (See Lautenschläger, C. L., Bockmühl, and Persch, assignors.)
Winthrop Chemical Company, Inc. (See Steindorff, A., Pfaff, and Erlenbach, assignors.)
Withrow, Paul C., and B. F. Fry, Denver, Colo. Truck frame. 1,948,151; Feb. 20.
Wittcoff, Edward, University City, assignor to Caradine Hat Company, St. Louis, Mo. Hat. Des. 91,577; Feb. 20.
Witter, Lawrie L., Jamaica Plain, Mass. Knife. 1,947,751; Feb. 20.
Wolf, Peter, Cologne-Kalk, Germany. Machine for tying parcels by means of wire. 1,947,670; Feb. 20.
Wolfe, William D., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Media for regenerating viscose. 1,948,323; Feb. 20.
Wolfson, Louis C., New York, N. Y. Vanity case. 1,948,086; Feb. 20.
Wolters, Carl F., Marietta, Ohio, assignor to Remington Rand Inc., Buffalo, N. Y. Ledger tray. 1,948,451; Feb. 20.
Wolverine Brass Works. (See Cornelius, Louis A., assignor.)
Womack, John W. (See Maxwell, Emmett, assignor.)
Woodman, Frank, Clinton, Mass., assignor to E. C. Bowers and C. L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y. Wire fabric and manufacture. 1,947,688; Feb. 20.
Woodruff, Henry S., Schenectady, N. Y., assignor to General Electric Company. Centrifugally actuated clutch. 1,947,632; Feb. 20.
Woodward, Alva W., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Wheel and making it. 1,948,324; Feb. 20.
Woodward, Marion H., Springfield, and A. F. Connery, Brooklyn, N. Y., assignors to International Communications Laboratories, Inc., Newark, N. J. Telegraph system. 1,948,364; Feb. 20.
Woolley, George. (See Hasse, C., and Woolley.)
Worrall, Roy R. (See Alvey, J. M., and Worrall.)
Wuebling, Harry B., Cincinnati, Ohio. Adjustable astragal or the like. 1,948,017; Feb. 20.
Young, Fred M., Racine, Wis. High temperature bonding apparatus. 1,947,689; Feb. 20.
Young, L. A., Spring & Wire Corporation. (See Falls, William A., assignor.)
Young, L. A., Spring & Wire Corporation. (See Fante, Harry H., assignor.)
Young, L. A., Spring & Wire Corporation. (See Heuer, Lawrence H., assignor.)
Young, Marvin S., Scarsdale, and A. Novick, Flushing, N. Y., assignors to Socony-Vacuum Corporation. Combination inflow controlling and fluid discharge means. 1,947,575; Feb. 20.
Young, Walter H., Detroit, Mich. Scroll saw. 1,948,229; Feb. 20.
Young, Walter H., Detroit, Mich. Vibratory electric motor. 1,948,452; Feb. 20.
Youngstown Sheet & Tube Company, The. (See Adams, James L., jr., assignor.)
Zancan, Ottavio, New York, N. Y. Motor car braking system. 1,948,195; Feb. 20.
Zatzkin, Jacob, Brooklyn, N. Y. Movable bar. Des. 91,601; Feb. 20.
Zenith-Detroit Corporation. (See Sands, Charles C., assignor.)
Zenner, George H., Buffalo, N. Y., assignor to The Linde Air Products Company. Lined container. 1,948,477; Feb. 20.
Zerfing, Robert H., Oneida, N. Y. Burial vault. Des. 91,550; Feb. 20.
Ziebarth, Fritz. (See Clarke, Harry S., assignor.)
Zimmerer, Frederick J., assignor to The Russell Manufacturing Company, Middletown, Conn. Fabric. 1,947,508; Feb. 20.
Zimmerman, Ralph W., Chicago, Ill., assignor to The William Bayley Company, Springfield, Ohio. Window. 1,948,152; Feb. 20.
Zimmerman, Ralph W., Winnetka, Ill., assignor to The William Bayley Company, Springfield, Ohio. Window. 1,948,153; Feb. 20.
Zitscher, Arthur. (See Laska, L., and Zitscher.)
Zitscher, Arthur, Offenbach-on-the-Main, H. Mildner, Leverkusen-I. G. Werk, and W. Luce, Hofheim-on-Taunus, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Alkoxy-2-hydroxynaphthalene-3-carboxylic acids. 1,947,819; Feb. 20.
Zuckerman, Roscoe C. (See Scheckler, Gordon F., assignor.)

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF FEBRUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Absorber refrigerating apparatus. E. S. Halsey. Re19,090; Feb. 20.
Abrasive stick holder. S. M. Hershey. 1,948,266; Feb. 20.
Accelerator and starter operating mechanism, Combined. P. G. Frazier. 1,947,766; Feb. 20.
Accelerator, Vulcanization. L. B. Sebrell and A. M. Clifford. 1,948,317; Feb. 20.
Acid and its compounds, Manufacturing and recovering glutamic. R. Masuda, C. L. Royal, and A. E. Marshall. 1,947,563; Feb. 20.
Acids, alkoxy-2-hydroxynaphthalene-3-carboxylic. A. Zitscher, H. Mildner, and W. Luce. 1,947,819; Feb. 20.
Acids containing nitrogen and making same, Derivatives of higher fatty. K. Keller. 1,947,650; Feb. 20.
Acids, New aniline-sulphonic. E. Fischer, A. Kissling, and H. Kracker. 1,947,837; Feb. 20.
Acidyl polyalkylene polyamines. W. Neelmeier, T. Nocken, and H. Friedrich. 1,947,951; Feb. 20.
Adhesive and preparing and applying the same. J. E. Clegg. 1,948,334; Feb. 20.
Adhesive applying apparatus. C. L. Moyer. 1,947,791; Feb. 20.
Adjustable table. R. W. Russell. 1,947,801; Feb. 20.
Aerial display. H. H. Haines and K. L. Lange. 1,948,295; Feb. 20.
Aeronautic training apparatus. H. Alfaro. 1,947,962; Feb. 20.
Aeroplane. J. Hojnowski. 1,947,908; Feb. 20.
Agents for diminishing or suppressing foaming and frothing and the application thereof. A. Macarthur and A. Stewart. 1,947,725; Feb. 20.
Aileron, Tip flap. T. de Port. 1,947,461; Feb. 20.
Air cleaning and humidifying device. A. Chizmar. 1,948,097; Feb. 20.
Air conditioner and humidifier. R. L. Payne and G. E. Marica. 1,948,277; Feb. 20.
Air conditioning unit. C. M. Ashley and V. S. Day. 1,948,156; Feb. 20.
Aircraft. W. F. McBride. 1,948,426; Feb. 20.
Aircraft of the rotative wing type. J. de la Cierva. 1,947,901; Feb. 20.
Aircraft propeller. E. Manasek. 1,947,560; Feb. 20.
Aircraft sustaining rotor. A. E. Larsen. 1,948,457–8; Feb. 20.
Aircraft with rotative sustaining blades. J. de la Cierva. 1,948,456; Feb. 20.
Aircraft with rotative wings. J. de la Cierva. 1,948,455; Feb. 20.
Air or gases, Apparatus for the filtration of. H. A. Brassert, A. J. Boynton, and J. P. Grilli. 1,947,447; Feb. 20.
Alcohols from acid liquors formed by treating olefines with sulphuric acid, Obtaining secondary. B. T. Brooks. 1,948,286; Feb. 20.
Alkali carbonate or alkali hydroxide, and by-products of ammonia or ammonium salts, Manufacture of. F. Bartling. 1,947,671; Feb. 20.
Alkali fusions, Conducting caustic. J. E. Jewett. 1,947,852; Feb. 20.
Alkaline earth metal oxides, Preparing. O. Nitzschke. 1,947,952; Feb. 20.
Aliphatic anhydrides, Manufacture of. H. Dreyfus. 1,947,977; Feb. 20.
Alkyl phenols, Production of. H. E. Buc and R. Schuler. 1,948,287; Feb. 20.
Aluminum, Plating. J. Fischer. 1,947,981; Feb. 20.
Amines, Preparation of aromatic. W. C. Calvert. 1,948,330; Feb. 20.
Amplification, System for. L. M. Hull. 1,948,265; Feb. 20.
Amplifier, Balanced. S. D. Lavoie. 1,948,303; Feb. 20.
Amusement apparatus. W. F. Gerhardt and C. A. Brock. 1,947,982; Feb. 20.
Amusement device. M. F. Lathers. 1,947,859; Feb. 20.
Amusement device. L. B. May. 1,947,608; Feb. 20.
Animal trap. T. Booth. 1,948,199; Feb. 20.
Annular valve. A. Hoerbiger and R. Köhler. 1,948,375; Feb. 20.
Anthraquinone derivatives, Production of. P. Nawiasky, A. Krause, and B. Stein. 1,948,183; Feb. 20.
Antifriction bearing. H. C. Ford. 1,948,105; Feb. 20.
Anticlare device for motor vehicle headlights. C. Schlared. 1,947,804; Feb. 20.
Applicator package. L. A. Von Till. 1,947,667; Feb. 20.
Applying fastener. S. S. Randell. 1,948,187; Feb. 20.
Arch support. G. W. Gellear. 1,948,347; Feb. 20.
Armature core insulating machine. A. W. Phelps. 1,948,006; Feb. 20.
Articles of cellular rubber and ebonite with closed cells, Manufacture of. M. P. H. L. Raepsaet. 1,948,046; Feb. 20.
Asphalt, Producing. R. E. Haylett. 1,948,296; Feb. 20.
Assembly tool. T. W. Costello. 1,948,203; Feb. 20.
Astragal or the like, Adjustable. H. B. Wuebling. 1,948,017; Feb. 20.
Attachment fitting. C. E. Lear. 1,947,995; Feb. 20.
Automobile lift jack. C. J. Bristol. 1,948,367; Feb. 20.
Automobile locking device. J. G. Auperin. 1,948,196; Feb. 20.
Automobile parking device. M. H. Hollingsworth. 1,947,598; Feb. 20.
Azo-dyestuffs. F. Felix and W. Huber. 1,948,208; Feb. 20.
Azo-dyestuffs and making same. E. E. Misslin and R. von Capeller. 1,948,224; Feb. 20.
Azodyestuffs insoluble in water and making same. L. Laska and A. Zitscher. 1,947,946; Feb. 20.
Bag for coffee percolators. B. Hirschhorn. 1,947,523; Feb. 20.
Ball connecting means. R. C. Chapman. 1,948,202; Feb. 20.
Balance indicator for aircraft. P. A. Goldsworthy. 1,948,030; Feb. 20.
Ball centers, Forming. D. F. Twiss and A. E. T. Neale. 1,947,539; Feb. 20.
Ball teeing device. B. J. Buckingham. 1,948,020; Feb. 20.
Band track, Flexible. H. A. Knox. 1,947,474; Feb. 20.
Bar: *See*—
  Joint bar.
Bar for ophthalmic mountings, Center. W. S. Searles. Des. 91,597; Feb. 20.
Bar support for concrete construction. G. Birkland. 1,947,445; Feb. 20.
Bathing plant. G. O. W. Heijkenskjöld. 1,947,594; Feb. 20.
Battery: *See*—
  Storage battery.
Battery container. J. A. Smith. Des. 91,572; Feb. 20.
Bead and applying same to a wheeled rim, Ornamental. G. A. Lyon. 1,948,273; Feb. 20.
Bearing: *See*—
  Antifriction bearing.
Bearing. O. Mackensen. 1,947,559; Feb. 20.
Beater bar mill with two beater bar disks rotating rapidly in opposite directions. J. Otto. 1,947,953; Feb. 20.
Beef carcases, Preventing distortion of. R. P. Lamont, jr. 1,948,269; Feb. 20.
Belt, Conveyer. R. S. Carter. 1,948,332; Feb. 20.
Bending machine. F. H. Meyer. 1,948,474; Feb. 20.
Benzoic anhydride, Manufacture of. M. N. Dvornikoff. 1,948,342; Feb. 20.
Bevel gauge. H. Abola. 1,947,448; Feb. 20.
Bimetallic element. H. D. Matthews. 1,948,121; Feb. 20.
Binding post. W. H. B. Lavarack. 1,948,470; Feb. 20.
Blank feeder. E. G. Staude. 1,948,362; Feb. 20.
Blank-feeding machine. G. W. Swift, jr. 1,948,142; Feb. 20.
Blow pit and operating the same. H. W. French. 1,947,707; Feb. 20.
Board: *See*—
  Ironing board.
Boat. N. B. Geddes. Des. 91,579; Feb. 20.
Bobbin supporter for looms. A. W. Herring. 1,947,596; Feb. 20.
Bobbins, Securing flanges to. J. E. Robinson. 1,948,430; Feb. 20.
Boiler: *See*—
  Liquid boiler. Mercury boiler.
Bolt cap. G. Brain. 1,947,639; Feb. 20.
Bolts, Manufacturing connecter. F. W. Mebold. 1,947,867; Feb. 20.
Bookholder. J. L. Clark. 1,947,757; Feb. 20.
Bottle. E. W. Fuerst. Des. 91,520; Feb. 20.
Bottle. W. R. Leach. Des. 91,528; Feb. 20.
Bottle. E. W. Fuerst. Des. 91,561; Feb. 20.
Bottle case. D. A. McCowan. 1,948,041; Feb. 20.
Bottle, Nursing. M. H. Block. 1,947,753; Feb. 20.
Bowl separator. C. E. Gish. 1,947,844; Feb. 20.
Box: *See*—
  Folding fruit box. Paper box.
Box. H. V. Marsh. 1,947,865; Feb. 20.
Box machine. N. Marcalus. 1,947,561; Feb. 20.
Box or similar container. C. K. Ellsworth. Des. 91,578; Feb. 20.
Brake: *See*—
  Engine brake. Fluid pressure brake.
  Fluid pressure actuated brake. Mechanical power brake.
Brake. R. S. Sanford. 1,947,880; Feb. 20.
Brake. R. Stein. 1,947,811; Feb. 20.
Brake band. C. B. Thompson. 1,947,887; Feb. 20.
Brake beam. E. G. Busse. 1,947,579; Feb. 20.
Brake beam. J. L. Mohun. 1,947,580; Feb. 20.
Brake connection. J. P. Mahoney. 1,947,914; Feb. 20.
Brake drum. F. H. Lejeune. 1,947,782; Feb. 20.

Brake drum, Device to prevent the scoring of a. G. S. Lane. 1,947,719; Feb. 20.
Brake for revolving doors. J. H. Graham. 1,947,845; Feb. 20.
Brake linkage. E. R. Evans. 1,947,905; Feb. 20.
Brake mechanism. J. D. Campbell. 1,947,826; Feb. 20.
Brake mechanism. E. V. Taylor. 1,947,886; Feb. 20.
Brake mechanism, Fluid pressure controlled. F. L. Shelor. 1,948,190; Feb. 20.
Brake mechanism for automotive vehicles. C. S. Bragg and V. W. Kliesrath. 1,947,895; Feb. 20.
Brake mechanism for motor vehicles. E. A. Dickey. 1,947,903; Feb. 20.
Brake shoe. S. Whitworth. 1,947,894; Feb. 20.
Brake shoe and attaching lining to the same. G. W. Fissell. 1,947,839; Feb. 20.
Braking system, Motor car. O. Zancan. 1,948,195; Feb. 20.
Breast supporter. B. Notes. 1,948,076; Feb. 20.
Brief and sample case. H. H. Labadie and B. B. Beers. 1,947,718; Feb. 20.
Broiler and toaster. E. S. Parker. Re19,089; Feb. 20.
Brooder. R. C. Ricketts. 1,948,132; Feb. 20.
Brush construction. E. E. Robinson. 1,948,429; Feb. 20.
Brush, Magazine shaving. J. Rose. 1,948,398; Feb. 20.
Brush, Motor. W. H. Kitto. 1,948,268; Feb. 20.
Buckle. L. Alterson. 1,947,690; Feb. 20.
Buffing and draft gear, Central. R. T. Glascodine. 1,947,936; Feb. 20.
Bumper, Self-aligning door. H. Horldt. 1,947,524; Feb. 20.
Burner: *See*—
Fuel-oil burner. Oil burner.
Gas burner.
Button. W. F. Haas. Des. 91,581–2; Feb. 20.
Button. S. Rosenthal. Des. 91,594; Feb. 20.
Button or similar article. S. Green. Des. 91,580; Feb. 20.
Cabinet, Ice-cream. E. S. Prince. 1,947,571; Feb. 20.
Cabinet, Kitchen utility. H. W. Pedersen. Des. 91,541; Feb. 20.
Cabinet or enclosure for fans. T. B. Jones. Des. 91,524; Feb. 20.
Cabinet or similar article, Refrigerator. R. E. Kruck. Des. 91,527; Feb. 20.
Cabinet, Refrigerated. C. A. Baker. 1,947,442; Feb. 20.
Cable construction. C. E. Bennett. 1,947,455; Feb. 20.
Cable, Electric power. M. Büdscheid. 1,948,439; Feb. 20.
Cable joint. C. E. Bennett. 1,947,454; Feb. 20.
Cable joint. F. C. Meyer. 1,947,481; Feb. 20.
Cable, Single core. T. R. Scott and N. A. Allen. 1,947,676; Feb. 20.
Cables, Protecting trailing. W. C. Shunk. 1,947,503; Feb. 20.
Calculating machine. C. Schlüns. 1,947,620; Feb. 20.
Camera. G. Atterbury. 1,947,510; Feb. 20.
Camera back and shutter. C. J. Stokes. 1,948,141; Feb. 20.
Camera head. K. W. Thalhammer. 1,958,055; Feb. 20.
Camera plates or shutters, Mechanism for moving. C. W. Kanolt. 1,947,555; Feb. 20.
Camera, Self-threading. J. Mihalyo. 1,947,483; Feb. 20.
Candelabra. S. W. Farber. Des. 91,557–60; Feb. 20.
Can handling apparatus. A. R. Thompson. 1,948,435; Feb. 20.
Cap, Adjustable. E. F. Meyer. 1,947,480; Feb. 20.
Carbamates, Production of. A. Mittasch and P. Chall. 1,948,002; Feb. 20.
Carbon article, Oxidation resisting. H. V. Johnson. 1,948,382; Feb. 20.
Carbonaceous materials, Destructive hydrogenation of. L. von Szeszich. 1,948,058; Feb. 20.
Carbonization process. H. O. Loebell and A. L. Klees. 1,948,472; Feb. 20.
Carburetor. L. D. Boyce. 1,947,692; Feb. 20.
Carburetor. G. F. Brut. 1,947,583; Feb. 20.
Carburetor. E. P. Butusov. 1,947,518; Feb. 20.
Carburetor. A. M. Prentiss. 1,947,919; Feb. 20.
Carburetor. C. C. Sands. 1,948,135; Feb. 20.
Card and support, Display. B. A. Einson. 1,947,521; Feb. 20.
Car-heating and ventilating system. L. C. Hyatt. 1,947,716; Feb. 20.
Car mover. F. J. Miller. 1,948,123; Feb. 20.
Carrier: *See*—
Chaser carrier. Tire carrier.
Carton and making same, Lined moisture-proof. E. G. Staude. 1,947,664; Feb. 20.
Carton, Chewing gum. J. McCollum. Des. 91,586; Feb. 20.
Carton, Egg. J. E. Walsh. 1,948,322; Feb. 20.
Case: *See*—
Bottle case. Hand luggage case.
Brief and sample case. Refrigerated display case.
Eyeglass case. Vanity case.
Case and mounting therefor, Display. A. A. Rose. 1,948,049; Feb. 20.
Casing cutter. I. J. McCullough. 1,947,726; Feb. 20.
Casing for a duplicating machine. E. Jacobsen. Des. 91,523; Feb. 20.
Catalyst for the production of nitric acid and the like. L. J. A. Marmier. 1,947,864; Feb. 20.
Catalysts of increased activity, Preparing. R. N. Watts and W. E. Spicer. 1,948,408; Feb. 20.
Catalytic process for producing gas rich in hydrogen. G. H. B. Davis and J. A. Franceway. 1,948,338; Feb. 20.
Catch basin header and throat. N. M. Wilke. 1,948,016; Feb. 20.
Cellulose esters, Manufacture and treatment of. H. Dreyfus. 1,947,463; Feb. 20.
Cement, Making. W. E. Snyder. 1,948,433; Feb. 20.
Cement product and making the same. H. R. Starke. 1,947,504; Feb. 20.
Centrifugal pump. P. A. Bancel. 1,948,157; Feb. 20.
Centrifugally actuated clutch. H. S. Woodruff. 1,947,632; Feb. 20.
Chain: *See*—
Power transmission chain.
Chain and process of manufacture. P. M. Hall. 1,948,349; Feb. 20.
Chain connecter. J. R. Reyburn. 1,947,739; Feb. 20.
Chair: *See*—
Folding chair. Table chair.
Chair. I. R. Bromagem. 1,948,200; Feb. 20.
Chair. H. Dujardin. 1,948,341; Feb. 20.
Charge forming device. W. H. Teeter. 1,948,012; Feb. 20.
Chaser carrier. R. E. Hyde. 1,947,599; Feb. 20.
Chest, Manicure. F. N. Lewis. 1,947,604; Feb. 20.
Chromates, Manufacture of. O. F. Tarr. 1,948,143; Feb. 20.
Cigarette and match package, Combined. E. S. K. Fung. 1,948,418; Feb. 20.
Cinematographic printing machine. A. L. V. C. Debrie. 1,948,066; Feb. 20.
Circuit controlling motor, Electric. E. K. Whitener and T. F. Suggs. 1,948,450; Feb. 20.
Circuit, Detector. K. Posthumus. 1,947,569; Feb. 20.
Circuit, Reverberation. E. H. Schreiber. 1,947,621; Feb. 20.
Circulating system, Thermostatically regulated. W. A. Geise. 1,948,293; Feb. 20.
Clamp: *See*—
Hose clamp. Jeweler's clamp.
Clamp. G. W. Rose and J. L. O'Brien. 1,948,134; Feb. 20.
Clamping device. C. Burkhardt. 1,948,329; Feb. 20.
Clamping device. R. Marogg. 1,947 607; Feb. 20.
Clarifying system for dry cleaning solvents. V. C. Norquist and E. E. Treanor. 1,947,873; Feb. 20.
Cleaner dust bag, Suction. E. Hoffiin. Des. 91,562; Feb. 20.
Cleaning apparatus, Dry. B. L. Newkirk. 1,948,357; Feb. 20.
Clip: *See*—
Contact clip.
Clock case. M. Schlenker. Des. 91,544; Feb. 20.
Clock case and lamp or similar article, Combined. A. Levy. Des. 91,563; Feb. 20.
Closure device. A. J. Marschall. 1,947,915; Feb. 20.
Clothes to ultra-violet radiation and ozone in laundry operations, Apparatus for subjecting. W. R. Read. 1,948,239; Feb. 20.
Clutch: *See*—
Centrifugally actuated Roller clutch.
clutch.
Clutch. A. F. Welch. 1,948,084; Feb. 20.
Clutch construction. J. B. Whitted. 1,948,150; Feb. 20.
Clutch mechanism. G. C. File. 1,948,068; Feb. 20.
Coal slurry, Method of and apparatus for treating. B. Norton. 1,948 184; Feb. 20.
Coating and making and applying the same, Protective. W. C. Geer. 1,948,292; Feb. 20.
Coating material applied to a core, Apparatus for treating. H. M. Larsen. 1,947,993; Feb. 20.
Coating material on a core, Apparatus for treating. F. Martindell. 1,947,478; Feb. 20.
Coating of machine elements. T. R. Rose and H. L. Engle. 1,947,493; Feb. 20.
Coatings of glass, Producing colored. N. Kreidl. 1,947,781; Feb. 20.
Cocoa product and making same. J. H. Kellogg and G. L. and W. K. Teller. 1,947,717; Feb. 20.
Coffee, Apparatus for making. V. R. Weast. 1,947,687; Feb. 20.
Coin detector, Spurious. C. H. Underwood. 1,947,538; Feb. 20.
Coin handling machine. A. C. O. Bock. 1,947,456; Feb. 20.
Colors for application to textile fabrics, Decorative. W. H. Adams. 1,948,464; Feb. 20.
Comb package. R. J. Dwyer. 1,947,762; Feb. 20.
Compass. J. C. Hochman. Des. 91,522; Feb. 20.
Compass or dip needle, Miner's. W. F. Sprengnether. 1,947,809; Feb. 20.
Composition for reconditioning wood, abrazed spike holes in rail sleepers, or for filling other holes and for similar purposes. S. Krishna. 1,948,422; Feb. 20.
Composition of matter and the product thereof, Making a new. E. Hey. 1,947,938; Feb. 20.
Composition on a core, Apparatus for hardening a. F. Martindell and A. D. Miller. 1,947,479; Feb. 20.
Compounds of the 1-phenol-2-aminoalcohols-1 series hydroxylated in the phenyl nucleus, Preparing. M. Bockmühl, G. Ehrhart, and L. Stein. 1,948,162; Feb. 20.
Compressor apparatus, Turbine driven. A. Lysholm. 1,947 477; Feb. 20.
Compressor control means. J. B. Grosswege. 1,947,712; Feb. 20.
Concentrating machine. W. C. Rickel. 1,947,877; Feb. 20.
Concrete and like plastic materials, Apparatus for treating. C. Jackson. 1,947,941; Feb. 20.
Concrete mixer. D. J. Price. 1,948,226; Feb. 20.

Condensation process yielding condensation products of the urea formaldehyde type. K. Eisenmann and T. Kollmann. 1,948,343; Feb. 20.
Condensation products of the benzanthrone series and new products obtainable thereby. G. Kraenzlein and M. Corell. 1,947,943; Feb. 20.
Condenser: *See*—
Electrolytic condenser.
Condensers, Manufacturing electrostatic. R. E. Carlson. 1,948,331; Feb. 20.
Conductor, Electric. E. J. Schneider and M. B. Bradt. 1,948,241; Feb. 20.
Conductors, Apparatus for testing electrical. W. E. Prince. 1,948,238; Feb. 20.
Confection mold. J. D. Warren. 1,948,147; Feb. 20.
Connecter: *See*—
Chain connecter. Electrical connecter.
Connecter for implement handles. E. Cohen. 1,947,697; Feb. 20.
Construction material, Producing. R. C. Newhouse. 1,947,488; Feb. 20.
Contact clip, Electrical conductor. W. R. Neumann. 1,948,309; Feb. 20.
Container: *See*—
Lined container. Preserving container.
Container. W. J. Geimer. 1,947,934; Feb. 20.
Container closure. L. B. Green. 1,948,263; Feb. 20.
Container for plants, Fertilizer. A. Kadow. 1,948,117; Feb. 20.
Containers and the like, Automatically soldering the side seams of. W. M. Holloway. 1,947,471; Feb. 20.
Control. J. A. Spencer. 1,947,884; Feb. 20.
Control for motors, Automatic. J. D. Nies. 1,947,533; Feb. 20.
Control means for washing machine roll wringer mechanism. A. W. Altorfer. 1,947,576; Feb. 20.
Control system for gas-making apparatus, Automatic. W. A. Barr. 1,948,094; Feb. 20.
Control valve. A. W. Bolster. 1,947,637; Feb. 20.
Controller. R. W. Doeg. 1,948,339; Feb. 20.
Conveyer. J. M. Alvey. 1,948,090; Feb. 20.
Conveyer. J. M. Alvey and R. R. Worrall. 1,948,091; Feb. 20.
Conveyer stop announcing system. J. O. Prescott and E. W. Franck. 1,948,077; Feb. 20.
Cooky caddy. A. E. Bergquist. 1,948,326; Feb. 20.
Cooler for bottled beverages or the like, Dispensing. C. A. Frick. Des. 91,519; Feb. 20.
Copper oxide-ammonia cellulose solution, New. E. Hubert and K. Weisbrod. 1,947,939; Feb. 20.
Copper, Refining. J. W. Scott. 1,948,316; Feb. 20.
Copy holder. G. C. Cochrane. 1,948,024; Feb. 20.
Cord, Apparatus for twisting. W. J. Hamburger and W. L. Thayer. 1,948,460; Feb. 20.
Cord retaining device, Electric lamp. L. Brosilow, W. Markoff, and J. Orosz. 1,947,517; Feb. 20.
Coring machine. M. Ewald. 1,948,459; Feb. 20.
Corn harvesting machine. N. R. Krause. 1,947,556; Feb. 20.
Corrosion of metallic objects, Preventing. J. F. Putnam. 1,948,007; Feb. 20.
Counterbalancing. W. G. Corey. 1,948,288; Feb. 20.
Coupling: *See*—
Flexible sealing coupling. Pipe coupling.
Hose coupling.
Coupling connection for ensilage conduits. W. G. Schoeneck. 1,947,743; Feb. 20.
Coupling device. P. W. Beggs. 1,947,965; Feb. 20.
Couplings, Making flexible shaft. J. W. Carthew. 1,947,695; Feb. 20.
Cover: *See*—
Tub cover. Wheel hub cover.
Cover for receptacles. M. Brescia. 1,948,285; Feb. 20.
Cover press and strapper, Combined. H. Paxton. 1,947,918; Feb. 20.
Crane driving and steering mechanism. H. E. Brey. 1,947,823; Feb. 20.
Crank connection for radial motors. J. Newmann. 1,948,475; Feb. 20.
Crate. F. Boren. 1,947,446; Feb. 20.
Cream, Carron oil compound chlorinated. H. Noonan. 1,947,568; Feb. 20.
Critical pressures, Apparatus for determining. G. Alleman and A. F. S. Musante. 1,947,821; Feb. 20.
Crushing apparatus. W. J. Armstrong. 1,947,784; Feb. 20.
Crushing apparatus. N. D. Levin. 1,947,783; Feb. 20.
Cultivator. S. H. Bearden. 1,948,436; Feb. 20.
Cup and saucer and similar articles. H. W. Briese. 1,947,968; Feb. 20.
Cup having a top, Egg. E. A. Reiser. Des. 91,542; Feb. 20.
Curling and marcel iron. E. Matthes. 1,948,463; Feb. 20.
Current contactor, Alternating. J. F. Frese. 1,948,374; Feb. 20.
Current into single-phase current, Method of and apparatus for converting polyphase. O. Lübl. 1,948,119; Feb. 20.
Currents, Changing the wave form of alternating. H. G. Miller. 1,947,484; Feb. 20.
Cuspidor stand. C. M. Conforti and F. F. Norden. 1,947,970; Feb. 20.
Cutter: *See*—
Casing cutter. Weed cutter.
Cutting device. E. F. Hager. 1,948,109; Feb. 20.
Cyanamide, Granulating. G. E. Cox. 1,947,971; Feb. 20.
Cyanamids or mixtures containing the same, Preparation of metal. H. H. Franck. 1,948,106; Feb. 20.
Cycle control apparatus, Master. R. A. Steps. 1,947,679; Feb. 20.
Cylinders, Producing. J. F. Bowers. 1,948,437; Feb. 20.
Damped mechanical filter. E. W. Kellogg. 1,947,543; Feb. 20.
Damper, Vibration. C. E. Summers. 1,948,247; Feb. 20.
Dashpot. J. H. Starr. 1,947,810; Feb. 20.
Date-setting device. A. S. Wheelbarger. 1,947,893; Feb. 20.
Delicacies and container therefor, Producing frozen. J. J. Nolte. 1,947,872; Feb. 20.
Demonstration apparatus. R. J. Linney. 1,947,605; Feb. 20.
Dental demonstrating device. H. O. Baugh. 1,948,059; Feb. 20.
Dentures, Retention and traction for. J. Groves. 1,947,907; Feb. 20.
Derivative of montane. M. Jahrstorfer and H. G. Hummel. 1,948,299; Feb. 20.
Derivatives of barbituric acid, N-alkylated. W. Kropp and L. Taub. 1,948,944; Feb. 20.
Derivatives of cellulose, Manufacture of organic substitution. H. Dreyfus. 1,947,464; Feb. 20.
Desk stand. C. M. Du Bois. Des. 91,514–15; Feb. 20.
Device for sounding purposes and for measurements of distance by the reflected sound of a submarine signal received on shipboard. A. E. Blondel. 1,948,253; Feb. 20.
Dies, Formation of printing. L. M. Harley. 1,947,986; Feb. 20.
Dies, Making. T. F. Mitchell. 1,947,916; Feb. 20.
Differential gearing. F. L. Boynton. 1,948,095; Feb. 20.
Dispensing device. G. Rechten. 1,948,227; Feb. 20.
Dispensing device. B. W. Stringfellow. 1,948,054; Feb. 20.
Display device. D. L. Primrose. 1,947,920; Feb. 20.
Display device. E. L. Fuchs. 1,947,549; Feb. 20.
Display holder. S. S. Crippen, jr. Des. 91,512; Feb. 20.
Display mechanism. H. C. Turner and H. R. Stacks. 1,947,814; Feb. 20.
Display stand. A. R. Botham. Des. 91,509; Feb. 20.
Display stand. D. F. Thomson. 1,947,746; Feb. 20.
Documents, newspapers, and the like, Protecting. J. Broadman. 1,947,516; Feb. 20.
Door construction. P. C. Baldwin and F. W. Schweer. 1,947,691; Feb. 20.
Door construction, Sliding. E. W. Clark. 1,948,065; Feb. 20.
Door control device. J. C. McCune. 1,947,727; Feb. 20.
Door, Cowl ventilator. J. Boca. 1,948,283; Feb. 20.
Door fastener. J. A. Haviland. 1,947,773; Feb. 20.
Door locking means, Automobile. C. L. Duquaine. 1,947,761; Feb. 20.
Doughnut machine and the like. C. E. Carpenter. 1,948,022; Feb. 20.
Draft, Overcoming side. L. A. Roggensack. 1,947,492; Feb. 20.
Drag conveyer, Sectional. A. E. Edwards. 1,948,168; Feb. 20.
Drawer pull. I. S. Keeler. 1,947,942; Feb. 20.
Drier: *See*—
Lingerie drier.
Drive and braking apparatus, Vehicle. W. F. Rockwell and H. W. Alden. 1,948,397; Feb. 20.
Drive for the spindle of boring machines or other machine tools, Special high speed. H. M. Lucas and H. N. Stephan. 1,947,862; Feb. 20.
Drive mechanism for taximeters. F. Hennig. 1,947,937; Feb. 20.
Dry material feeding machine, Compound. E. W. Bacharach. 1,947,441; Feb. 20.
Dual adjustable lock. D. Haviland. 1,948,174; Feb. 20.
Dual tire wheel. G. F. Scheckler. 1,948,136; Feb. 20.
Dust separator. J. B. Taylor. 1,948,363; Feb. 20.
Dyes, Azo. E. F. Fitch. 1,947,550; Feb. 20.
Dyes, Azo. W. Lange. 1,947,945; Feb. 20.
Dyestuff and dyestuff intermediates. D. C. R. Jones and R. F. Thomson. 1,948,116; Feb. 20.
Dyestuffs and making the same, Indigoid vat. J. Müller and R. Stocker. 1,947,655; Feb. 20.
Dyestuffs of the dipyrazol-anthronyl series, Vats. M. A. Kunz and K. Koeberle. 1,948,178; Feb. 20.
Earth working implement. M. M. Brodersen. 1,947,640; Feb. 20.
Elastic fluid generator. B. P. Coulson, jr. 1,948,370; Feb. 20.
Elastic wheel. E. F. Maas. 1,948,304; Feb. 20.
Electric discharge tube, Luminous. V. J. Francis and J. W. Ryde. 1,948,261; Feb. 20.
Electric emitting body and its manufacture. A. Lederer. 1,948,445; Feb. 20.
Electric furnace. W. E. Moore. 1,947,612; Feb. 20.
Electric furnace. F. E. O'Neil and J. F. Callahan. 1,947,793; Feb. 20.
Electric lock. C. M. Goodwin, sr. 1,948,217; Feb. 20.
Electric motor. A. Borchers and G. Peiser. 1,948,365; Feb. 20.
Electric motor. F. S. Kingston. 1,948,037; Feb. 20.
Electric motor, Vibratory. W. H. Young. 1,948,452; Feb. 20.
Electric resistance. R. Beyer. 1,947,692; Feb. 20.
Electric switch. M. N. Russell and V. R. Despard. 1,948,399; Feb. 20.
Electric switch. C. E. Stow. 1,947,681; Feb. 20.

Electric switch, Remotely controlled. F. B. Adam. 1,948,088; Feb. 20.
Electric wiring apparatus. V. R. Despard. Re19,092; Feb. 20.
Electrical connecter. H. B. White. 1,948,249; Feb. 20.
Electrical massaging device. C. de Carreño and F. Archila. 1,948,067; Feb. 20.
Electrical power equipment. H. M. Jacobs. 1,948,351; Feb. 20.
Electrical repeater. P. M. Haffcke. 1,947,771; Feb. 20.
Electrical translating device. J. A. Heany and P. M. Haffcke. 1,947,774; Feb. 20.
Electricity meter. R. Pudelko. 1,947,737; Feb. 20.
Electrode, Heated metal point. Y. Miyaoka. 1,948,075; Feb. 20.
Electrodynamic device. B. A. Engholm. 1,948,207; Feb. 20.
Electrolytic condenser. H. I. Danziger. 1,948,289; Feb. 20.
Electromagnet for circuit breakers and the like. R. C. Dickinson. 1,948,099; Feb. 20.
Electroplating. G. L. Wallace. 1,948,145; Feb. 20.
Electrotype plates and the like, Apparatus for trimming and grooving. O. E. H. Ganskow. 1,947,843; Feb. 20.
Elevated storage tank. B. M. Blackburn. Des. 91,508; Feb. 20.
Elevated tank. B. M. Blackburn. 1,947,515; Feb. 20.
Elevator. K. D. Fuller. 1,947,842; Feb. 20.
Emulsions, Method of and apparatus for resolving loose. H. F. Fisher. 1,947,704; Feb. 20.
Enclosure for beds. R. V. Riley. 1,948,048; Feb. 20.
End piece for spectacles or similar articles. E. Reynolds. Des. 91,543; Feb. 20.
End section for convectors. R. S. Wentworth. 1,948,149; Feb. 20.
Endless belt and seam construction therefor. E. V. Asten. 1,948,411; Feb. 20.
Energy measuring and recording mechanism. H. Nehls. 1,947,731; Feb. 20.
Engine brake. B. Loeffler. 1,947,996; Feb. 20.
Envelope. H. B. Dygert and L. S. Metcalfe. 1,948,290; Feb. 20.
Envelope. E. G. Vallier. 1,947,815; Feb. 20.
Eraser tip for pencils. H. B. Van Dorn. Des. 91,575; Feb. 20.
Esters, Decolorizing. F. D. Smith. 1,948,281; Feb. 20.
Esters, Preparing. H. Bertsch. 1,947,673; Feb. 20.
Evaporator for absorption machines, Single. E. Kinderman. 1,947,780; Feb. 20.
Exhaust manifold and muffler, Combined. C. E. Hathorn. 1,947,987; Feb. 20.
Extractor: *See*—
  Staple extractor.
Eyeglass case. H. J. Farrington. 1,947,979; Feb. 20.
Fabric: *See*—
  Textile fabric.
Fabric. F. J. Zimmerer. 1,947,508; Feb. 20.
Fabric and method of manufacture, Wire. F. Woodman. 1,947,688; Feb. 20.
Fabric or the like, Lace. C. Schiller. Des. 91,595; Feb. 20.
Facing apparatus. L. E. Poole. 1,947,659; Feb. 20.
Fastener: *See*—
  Applying fastener.
  Door fastener.
  Panel fastener.
  Rivet fastener.
Fastener for connecting high voltage conductors to insulators. T. H. Bowen. 1,948,061; Feb. 20.
Fastener forming and assembling machine and method of securing fastener elements to tape. G. Sundback. 1,947,956; Feb. 20.
Fastener socket, Snap. P. Upham. 1,948,321; Feb. 20.
Fastener sockets, Making. G. Johnson. 1,948,300; Feb. 20.
Fastening. R. R. Potter and S. G. Russell. 1,947,921; Feb. 20.
Fastening device. E. Poeter. 1,947,490; Feb. 20.
Fastening device for securing the bead of a hammer, hatchet, or the like. G. E. Dobbins. 1,947,832; Feb. 20.
Fastening inserting machine. G. Goddu and F. L. MacKenzie. 1,947,589; Feb. 20.
Fastening-supplying apparatus. F. L. MacKenzie. 1,947,769; Feb. 20.
Fatty and pitchy matters from animal fibres and for making them more readily feltable, Removing. V. Fluss. 1,947,522; Feb. 20.
Feeder: *See*—
  Sheet feeder.
Feeding device for stokers. W. D. Burton. 1,948,021; Feb. 20.
Feeding device, Power-operated. H. S. Mitchell. 1,947,728; Feb. 20.
Fertilizer manufacture. C. L. Burdick. 1,948,454; Feb. 20.
Fertilizers containing ammonium nitrate, Production of mixed. C. Krauch, C. Eyer, G. Baetz, and F. Korn. 1,947,601; Feb. 20.
Filament making machine. V. Anderson and D. G. Trutner. 1,947,449; Feb. 20.
Filler cap. W. H. Radford. 1,947,797; Feb. 20.
Filling feeler for looms. E. C. Smith. 1,947,624; Feb. 20.
Filling unit. W. J. Huff, O. W. Lusby, and L. Logan. 1,947,777; Feb. 20.
Film package, Photographic. J. Mihalyi. 1,947,482; Feb. 20.
Films and apparatus therefor, Numbering moving picture. J. L. Spence, jr. 1,948,319; Feb. 20.
Filter: *See*—
  Damped mechanical filter.
Finger ring. E. Steffen. 91,546–7; Feb. 20.
Fire extinguishing apparatus. E. Tyden. 1,947,890; Feb. 20.
Fishing reel. F. M. Case. 1,948,333; Feb. 20.
Fitting. L. A. Cornelius. 1,947,581; Feb. 20.
Flare signal. L. L. Driggs, jr. 1,947,834; Feb. 20.
Flexible sealing coupling. H. E. Fritz. 1,948,211; Feb. 20.
Flow choke. H. W. Fletcher. 1,947,586; Feb. 20.
Flower holder. E. A. Field. 1,947,702; Feb. 20.
Flowerpot, Self-feeding. W. J. Guille. 1,948,031; Feb. 20.
Flue for hot water heaters, Internal. W. G. Cartter. 1,948,064; Feb. 20.
Flue, Water heater. S. J. Lonergan. 1,947,606; Feb. 20.
Fluid, Dry cleaning. G. L. Parkhurst. 1,948,045; Feb. 20.
Fluid eliminator, Heavy. J. D. MacLachlan. 1,948,180; Feb. 20.
Fluid pressure actuated brake. F. C. and W. M. Folberth. 1,947,841; Feb. 20.
Fluid pressure brake. A. Chevillot. 1,947,696; Feb. 20.
Fluid pressure brake. E. R. Fitch and E. S. Cook. 1,947,705; Feb. 20.
Fluid pressure regulator. H. W. Fletcher. 1,947,585; Feb. 20.
Fluid projector. A. H. Beneah. 1,947,752; Feb. 20.
Fluid purifier. C. A. Winslow. 1,948,282; Feb. 20.
Fluid regulating and cut-off valve. J. W. Brunette. 1,948,062; Feb. 20.
Foamite corrosion inhibitor. G. M. Fisher. 1,948,029; Feb. 20.
Folding chair. W. H. Gillette. 1,948,216; Feb. 20.
Folding fruit box. F. E. Warner. 1,948,083; Feb. 20.
Food products, Preparing. B. J. G. Chiego. 1,947,520; Feb. 20.
Foot rest, Chiropody. A. W. Cousins. 1,947,758; Feb. 20.
Fork for wheeled vehicles. A. D. Whidden. 1,947,631; Feb. 20.
Form, Annular collapsible. F. L. Johnson. 1,948,035; Feb. 20.
Form for concrete construction, Collapsible. R. D. Smith. 1,947,625; Feb. 20.
Form, Road. J. N. Heltzel. 1,948,213; Feb. 20.
Forming means. J. Miotke. 1,947,611; Feb. 20.
Fractionating system. W. H. Bahlke and E. W. Thiele. 1,947,577; Feb. 20.
Frame: *See*—
  Hand bag frame.
  Hive frame.
  Truck frame.
  Window screen frame.
Frame corner bead. A. T. Potter. 1,947,736; Feb. 20.
Friction draft gear. R. R. Stevens. 1,947,812; Feb. 20.
Front end construction. E. S. MacPherson. 1,947,787; Feb. 20.
Fuel, Antiknock motor. L. Rosenstein. 1,948,449; Feb. 20.
Fuel briquets, Preparing carbonized. H. O. Loebell and A. L. Klees. 1,948,471; Feb. 20.
Fuel for electric fires and radiators, Imitation. H. H. Berry. 1,947,672; Feb. 20.
Fuel-oil burner. L. A. Popp. 1,948,394; Feb. 20.
Fuel pump. J. M. R. Retel. 1,948,047; Feb. 20.
Furnace: *See*—
  Electric furnace.
  Heat treating furnace.
Furnace. G. Hofmann. 1,948,214; Feb. 20.
Furnace and method of combustion, Pulverized fuel. J. G. Coutant. 1,947,460; Feb. 20.
Fuse. J. L. Johnson and M. Geiszler. 1,948,421; Feb. 20.
Fuse and mounting therefor. L. L. Glezen and S. P. Shackleton. 1,947,588; Feb. 20.
Fusible blow-out plug. L. O. Thompson. 1,948,056; Feb. 20.
Game. L. W. Harris. 1,947,772; Feb. 20.
Garment supporting band. A. J. Krein. 1,948,444; Feb. 20.
Gas, Apparatus for purifying. W. J. Huff, L. Logan, and O. W. Lusby. 1,947,779; Feb. 20.
Gas burner. J. T. McCourt. 1,947,866; Feb. 20.
Gas generator. F. C. Grecne. 1,947,590; Feb. 20.
Gas heater. R. F. Cuyler and F. M. Hartford. 1,947,830; Feb. 20.
Gas, Making carbureted water gas. G. J. Nordmeyer and T. W. Stone. 1,947,792; Feb. 20.
Gas, Manufacture of water. N. E. Rambush. 1,947,614; Feb. 20.
Gas mixing device. E. T. Larkin. 1,947,603; Feb. 20.
Gas pressure regulator, Compound. G. M. Deming. 1,948,027; Feb. 20.
Gas process using sodium carbonate, Producer. A. H. White and D. A. Fox. 1,948,085; Feb. 20.
Gas purification. W. J. Huff, L. Logan, and O. W. Lusby. 1,947,776; Feb. 20.
Gas washing apparatus, Exhaust. C. M. Gerhold. 1,948,348; Feb. 20.
Gauge: *See*—
  Bevel gauge.
  Liquid gauge.
Gauge bob and thermometer, Combination. J. F. Haller. 1,947,592; Feb. 20.
Gauge stop for machine tools, Stock. H. W. Rupple. 1,947,799; Feb. 20.
Gauging members for assemblage, Apparatus for. F. Freyman. 1,948,291; Feb. 20.

Gear: *See*—
  Buffing and draft gear.
  Friction draft gear.
Gear and rotary valve therefor, Power steering. G. W. Jessup. 1,947,991; Feb. 20.
Gear for variable delivery pumps, Control. W. Wallace. 1,947,540; Feb. 20.
Gear unit, Reverse. P. D. Harvey. 1,947,847; Feb. 20.
Gears, Method and equipment for lapping spur-helical and internal. F. C. Hofmann and F. F. Rohl. 1,948,071; Feb. 20.
Generator: *See*—
  Elastic fluid generator.
  Gas generator.
  Ozone generator.
  Vapor generator.
Generator and purifier, Combined. W. J. Huff, L. Logan, and O. W. Lusby. 1,947,778; Feb. 20.
Generator drive assembly. F. O. Marshall. 1,948,473; Feb. 20.
Glass and making the same, Laminated. W. H. Moss. 1,947,486; Feb. 20.
Glass article, Making a. W. A. Ingler. 1,947,526; Feb. 20.
Glass working machine. B. T. Headley and P. H. Thompson. 1,948,218; Feb. 20.
Glass working method and machine. B. T. Headley and P. H. Thompson. 1,948,219; Feb. 20.
Glasses and enamels, Production of opaque. I. Kreidl. 1,948,461; Feb. 20.
Gluten from flour, Apparatus for mechanically preparing. P. Barbade. 1,948,453; Feb. 20.
Golf green and making the same. J. A. Curtiss. 1,948,026; Feb. 20.
Golf tee. W. Dalglish. 1,947,674; Feb. 20.
Governor. J. W. Anderson. 1,947,509; Feb. 20.
Governor. S. L. Kerr. 1,947,602; Feb. 20.
Governor for revolving doors. E. Peremi and C. Kish. 1,947,733; Feb. 20.
Grain dressings and preparing them, Seed. A. Steindorff, K. Pfaff, and M. Erlenbach. 1,947,926; Feb. 20.
Grate, Furnace. T. M. Davidson. 1,947,831; Feb. 20.
Grease lubrication. F. J. Hall. 1,947,470; Feb. 20.
Grinding and polishing device. E. Poeggel. 1,948,128; Feb. 20.
Grinding machine, Centerless. W. Ogilvie. 1,948,392; Feb. 20.
Grinding mill. E. L. Van Pelt. 1,947,505; Feb. 20.
Groove for main bearings. J. Doisa and D. D. Stone. 1,948,340; Feb. 20.
Guard for vehicle running boards. J. W. Hume. 1,947,525; Feb. 20.
Guide track for wood heel turning machines. G. Clausing. 1,948,257; Feb. 20.
Gun attachment, Grease. J. J. Smith. 1,948,318; Feb. 20.
Gyroscopic control mechanism, Stabilizing and directing. L. Marmonier. 1,947,562; Feb. 20.
Hair waving apparatus. D. R. David. 1,947,582; Feb. 20.
Hair waving apparatus. G. Decker. 1,948,467; Feb. 20.
Hand bag frame. D. Lewis. Des. 91,564–7; Feb. 20.
Hand bag frame. C. J. McCabe and I. Schoenholz. 1,948,040; Feb. 20.
Hand bag frame. E. Poeter. 1,948,393; Feb. 20.
Hand luggage case. G. H. Wheary. 1,947,542; Feb. 20.
Harness cords for jacquard machines, Apparatus for use in the production of. J. T. Hardaker. 1,947,645; Feb. 20.
Harness cords for jacquard machines, Formation and arrangement of the. J. Hardaker. 1,947,646; Feb. 20.
Hassock. J. R. Ellis. Des. 91,517; Feb. 20.
Hat. E. Wittcoff. Des. 91,577 Feb. 20.
Header construction and heat transfer apparatus. H. M. Hope. 1,938,380; Feb. 20.
Headlight construction. M. R. Hoag. 1,948,264; Feb. 20.
Heat meter. C. L. Johnson. 1,948,234; Feb. 20.
Heat regulating device. G. D. Kingsland. Re19,091; Feb. 20.
Heat treating furnace. G. J. Hagan. 1,948,173; Feb. 20.
Heater: *See*—
  Gas heater.
Heating, Apparatus for catalytic. F. A. Howard 1,948,298; Feb. 20.
Heels, Manufacture of rubber. W. Fischer. 1,948,344; Feb. 20.
Heels to lasted shoes, Attaching. W. A. Thum. 1,947,666; Feb. 20.
Helmet, Reversible. H. W. Lucek and C. H. Davis. 1,947,786; Feb. 20.
High temperature bonding apparatus. F. M. Young. 1,947,689; Feb. 20.
Hive frame. G. G. Frater. 1,947,706; Feb. 20.
Holder: *See*—
  Abrasive holder.
  Copy holder.
  Flower holder.
  Manifold pack holder.
  Pasteurizing holder.
  Price tag holder.
  Receptacle holder.
  Swinging holder.
Holder. J. R. Thomas. 1,948,403; Feb. 20.
Holder and bag, Clothes hanger. G. K. Ballentine. 1,948,019; Feb. 20.
Holder and carrier, Golf tee. A. H. Breitbarth. 1,948,284; Feb. 20.
Holder for a rouge stick, Sheath. R. Matheret and L. Garreau. 1,948,074; Feb. 20.
Holder for incandescent lamps. O. Conradty. 1,948,166; Feb. 20.
Honing machine. J. P. Ferris. 1,948,468; Feb. 20.
Hood applying machine for milk bottles. J. T. Eubank. 1,947,978; Feb. 20.
Hollow articles, Apparatus for forming. E. Hopkinson. 1,947,990; Feb. 20.
Holly wreath. J. F. Tremper. Des. 91,549; Feb. 20.
Hose. F. B. Williamson, jr. 1,948,410; Feb. 20.
Hose clamp. L. H. Heuer. 1,947,715; Feb. 20.
Hose coupling. P. J. Hamilton. 1,947,593; Feb. 20.
Hose reel. G. V. Barr. 1,948,158; Feb. 20.
Hose supporter. E. Ericson. 1,947,764; Feb. 20.
Hot water circulating system. D. B. Mayberry. 1,948,425; Feb. 20.
House trap. E. Kennedy. 1,948,220; Feb. 20.
Housing for a motor-generator set. H. D. Gumpper. 1,947,713; Feb. 20.
Hutch, Sanitary. E. A. Corbin, jr. 1,947,698; Feb. 20.
Hydraulic apparatus. L. F. Moody. 1,947,653–4; Feb. 20.
Hydraulic governing system. E. S. Dennison. 1,948,098; Feb. 20.
Hydraulic jack. R. E. Manley. 1,948,073; Feb. 20.
Hydraulically-controlled valve. E. L. Schellens. 1,947,742; Feb. 20.
Hydrocarbon materials, Hydrogenation of. C. T. Harding. 1,948,378; Feb. 20.
Hydrocarbons, Apparatus for condensing. J. C. Mahoney. 1,947,863; Feb. 20.
Hydrocarbons, Apparatus for treating. H. Magnus. 1,948,072; Feb. 20.
Hydrocarbons, Oxidizing. T. Hellthaler and E. Peter. 1,947,989; Feb. 20.
Hydrostatic infusion apparatus. E. O. White. 1,948,015; Feb. 20.
Ice scoring machine. E. O. Robinson. 1,947,740; Feb. 20.
Illuminating attachment. V. E. English. 1,947,763; Feb. 20.
Impeller and shaft therefor for use in centrifugal and turbine pumps. N. Pizzuto. 1,947,658; Feb. 20.
Incinerator. J. G. Fahlstrom. 1,947,836; Feb. 20.
Index, Key finding. A. Reil. 1,948,358; Feb. 20.
Indicating system for welding machines. W. E. Crawford. 1,948,337; Feb. 20.
Indicator: *See*—
  Oil mileage indicator.
  Police indicator.
  Switch position indicator.
  Tire deflation indicator.
Inertia governor. W. Eccles. 1,948,416; Feb. 20.
Inflammable composition, Making an. H. M. Minnice. 1,947,790; Feb. 20.
Inflow controlling and fluid discharge means, Combination. M. S. Young and A. Novick. 1,947,575; Feb. 20.
Ingots from ingot molds, Apparatus for stripping. E. Gathmann. Re19,086; Feb. 20.
Injector. P. L. Scott. 1,947,573; Feb. 20.
Inoculating device. J. F. Loughlin. 1,948,271; Feb. 20.
Insects, Destroying. G. P. Urban. 1,948,228; Feb. 20.
Insert for cementitious slabs. V. E. Baird, C. Griffiths, and F. De Marais. 1,948,093; Feb. 20.
Instrument for discovering and recording defects in metal plates. J. P. Morrison. 1,947,729; Feb. 20.
Instrument for indicating the required voltage for making radiographs. H. E. Turner. 1,948,013; Feb. 20.
Instrument stand. O. E. Trautmann. Des. 91,574; Feb. 20.
Insulator and pressure relief device for carburetors, Combination. L. Kleinhoffer. 1,947,854; Feb. 20.
Insulator, Rubber shock and vibration. C. Saurer. 1,947,476; Feb. 20.
Ions, Acceleration of. E. O. Lawrence. 1,948,384; Feb. 20.
Iron and its alloys, Electrolytic manufacture of. E. Kelsen. 1,948,235; Feb. 20.
Ironer. A. A. Myers and E. W. Archer. 1,948,225; Feb. 20.
Ironing board. H. R. Northup. 1,947,613; Feb. 20.
Isoviolanthrone, Producing. L. P. Kyrides. 1,947,858; Feb. 20.
Jack: *See*—
  Automobile lift jack.
  Hydraulic jack.
  Track jack.
Jack. O. G. Noblitt and E. C. Booth. 1,948,446; Feb. 20.
Jeweler's clamp. R. Leder. 1,947,912; Feb. 20.
Joint: *See*—
  Cable joint.
  Tool joint.
  Universal joint.
Joint bar. R. Faries. 1,948,102; Feb. 20.
Joint particularly suitable for diving dresses or apparatus, Hydraulic. J. S. Peress. 1,947,657; Feb. 20.
Key cutting machine. F. E. Fowler. 1,948,260; Feb. 20.
Kiln apparatus. J. J. Schmidt. 1,947,496; Feb. 20.
Knife. L. L. Witter. 1,947,751; Feb. 20.
Knife, Electrically heated. P. Krebs. 947,857; Feb. 20.
Knitting machine. V. Lombardi. 1,947,558; Feb. 20.
Knitting machine. S. A. Welch, A. F. Guyler, J. T. Ashby, and W. H. Boaler. 1,947,958; Feb. 20.
Knitting machine. E. Wildt and H. H. Holmes. 1,947,750; Feb. 20.
Knitting machine, Reciprocatively operated. F. W. Robinson. 1,947,617; Feb. 20.
Lace. S. H. Page. Des. 91,537–9; Feb. 20.
Lace. S. H. Page. Des. 91,592; Feb. 20.
Lace. A. Springthorpe. Des. 91,599; Feb. 20.
Lace. F. Truman. Des. 91,600; Feb. 20.
Lamp: *See*—
  Multifilament lamp.
Lamp. J. P. Kierman, C. G. Cottle, and W. J. Sheehan. Des. 91,584; Feb. 20.
Lamp bracket. H. R. Sulzer. Des. 91,573; Feb. 20.

Lamp for motor vehicles. Combined directional and tail or driving. E. T. Condon. Des. 91,551–3; Feb. 20.
Lamp globe fitting. J. C. Smith. 1,947,806; Feb. 20.
Lantern, Electric hand. G. H. Barber. Des. 91,507; Feb. 20.
Lathe drive. L. C. Cole. 1,947,829; Feb. 20.
Leather, After-treatment of. M. Bergmann. 1,947,513; Feb. 20.
Ledeburitic, preliminary iron alloy free from graphite. J. Novak and R. Kesselring. 1,947,656; Feb. 20.
Lens of variable equivalent focal length. A. Warmisham and I. Cisak. 1,947,669; Feb. 20.
Lens strap. C. O. Cozzens. Des. 91,554; Feb. 20.
Lever pick-up and release, Emergency. E. R. Evans and E. A. Rockwell. 1,947,904; Feb. 20.
Lid for bottles, Self locking coin. J. A. Ringenberg. 1,948,133; Feb. 20.
Lidding and strapping machine. H. Paxton. 1,947,917; Feb. 20.
Lifter: *See*—
Valve lifter.
Light attachment for mirrors, Side. J. A. Hoegger. 1,948,111; Feb. 20.
Light bulb, Theftproof. V. Leveille. 1,948,386; Feb. 20.
Light fixture. H. S. Clarke. Des. 91,510; Feb. 20.
Lighter actuating mechanism, Gas stove. A. J. French. 1,948,210; Feb. 20.
Lighter, Cigar. D. Pepper. 1,948,186; Feb. 20.
Lighting device for sewing machines. H. Corrall. 1,948,336; Feb. 20.
Lightning arrester. L. S. Brach. 1,947,967; Feb. 20.
Lined container. G. H. Zenner. 1,948,477; Feb. 20.
Liner packing sleeve. J. M. Shimer. 1,947,623; Feb. 20.
Lingerie drier. F. K. Tuttle. 1,948,014; Feb. 20.
Lining, Garbage can. L. A. Dubbs. 1,947,835; Feb. 20.
Lining in cracking vessels, Protective. T. Montgomery and J. C. Morrison. 1,948,391; Feb. 20.
Lip stick. P. A. Reutter. 1,947,738; Feb. 20.
Liquid boiler. B. P. Coulson, jr. 1,948,369; Feb. 20.
Liquid boiler. A. J. Nerad. 1,948,355; Feb. 20.
Liquid gauge. P. A. Jerguson. 1,947,910; Feb. 20.
Lock: *See*—
Dual adjustable lock. Removable core lock.
Electric lock.
Lock. J. E. Theriot. 1,947,813; Feb. 20.
Loud speaker. R. Vermeulen, A. T. Van Urk, and C. Loman. 1,947,749; Feb. 20.
Lubricant or other liquid to a fluid stream, Apparatus for delivering a. J. C. Handy. 1,948,034; Feb. 20.
Lubricants, Metal-forming. R. C. Williams. 1,948,194; Feb. 20.
Lubricating apparatus. J. A. Goodey. 1,947,710; Feb. 20.
Lubricating means for spindles. A. R. Davis. 1,947,972; Feb. 20.
Lubricator: *See*—
Railway journal lubricator.
Machine base. W. E. Sharp. 1,947,501; Feb. 20.
Machine for attaching bails to containers. G. S. Hoover. 1,947,472; Feb. 20.
Machine for casting straps and posts on sets of battery plates. H. W. Lormor. 1,948,120; Feb. 20.
Machine for cracking off shells of coquito nut and its similars. M. M. Rangel. 1,948,390; Feb. 20.
Machine for hardening gears, Automatic. H. Schicht. 1,948,480; Feb. 20.
Machine for making heddles. R. Ragan. 1,948,129; Feb. 20.
Machine for making multiple unit structural slabs. N. L. Aberson. 1,948,087; Feb. 20.
Machine for manufacturing heels for shoes. G. Clausing. 1,948,258; Feb. 20.
Machine for manufacturing tubular fabric. C. Séry. 1,947,924; Feb. 20.
Machine for producing wire strands. H. Hill. 1,947,775; Feb. 20.
Machine for shaping tires and inserting airbags. R. S. Kirk. 1,948,302; Feb. 20.
Machine for the manufacture of match splint strips. J. W. Johansson. 1,948,381; Feb. 20.
Machine for tying parcels by means of wire. P. Wolf. 1,947,670; Feb. 20.
Machine tool. A. M. Johnson. 1,948,115; Feb. 20.
Machine tool, Double chuck. H. W. Rupple. 1,947,800; Feb. 20.
Magnetic bodies, Making. C. C. Neighbors. 1,948,308; Feb. 20.
Magnetoresistive system and apparatus. C. Fichandler. 1,948,209; Feb. 20.
Manganese values, Winning. W. Bradley. 1,947,457; Feb. 20.
Manifold pack holder. J. Q. Sherman. 1,947,663; Feb. 20.
Manifolding machine. A. A. Johnson. 1,948,352; Feb. 20.
Marker, Surface. L. E. Clough. 1,948,335; Feb. 20.
Marking, and cutting device for machines for producing and treating strip-shaped bodies, Automatically acting. F. Gühloff. 1,947,591; Feb. 20.
Marking device for airplane landing fields, Electrical. R. Gunn. 1,947,469; Feb. 20.
Mat. J. D. Betwick. 1,948,327; Feb. 20.
Material, Apparatus for handling. E. J. McIlvried. 1,948,305; Feb. 20.
Materials, Apparatus for treating. H. F. Fruth. 1,947,547; Feb. 20.
Materials, Apparatus for treating. H. F. Fruth and R. L. Reading. 1,947,548; Feb. 20.
Materials, Apparatus for treating. H. M. Larsen. 1,947,476; Feb. 20.
Materials, Apparatus for treating. E. Pugh. 1,947,545; Feb. 20.
Materials, Apparatus for treating. R. L. Reading. 1,947,546; Feb. 20.
Materials, Magnetic separation of. B. Granigg. 1,948,419; Feb. 20.
Mechanical clearance regulator. O. M. Burkhardt. 1,948,063; Feb. 20.
Mechanical movement. F. A. King. 1,947,853; Feb. 20.
Mechanical power brake. E. A. Rockwell. 1,948,359; Feb. 20.
Media for regenerating viscose. W. D. Wolfe. 1,948,323; Feb. 20.
Medicinal oil solutions. E. B. Carter and E. E. Moore. 1,947,519; Feb. 20.
Medicine shelf rack. S. V. Brooks. 1,947,825; Feb. 20.
Mercury boiler. W. L. R. Emmett and B. P. Coulson, jr. 1,948,371; Feb. 20.
Metal articles, Pressing. E. Schubarth. 1,948,242; Feb. 20.
Metal-compounds into textiles, Incorporation of. F. Hoelkeskamp. 1,947,597; Feb. 20.
Metal cutting machine. L. C. Shippy, A. W. Phelps, and J. Q. Holmes. 1,948,010; Feb. 20.
Metal extrusion press. O. Schlenstedt. 1,948,400; Feb. 20.
Metals from ores, Extracting. A. D. Lee. 1,947,860; Feb. 20.
Meter: *See*—
Electricity meter. Heat meter.
Metering, System of. D. M. Carr. 1,948,368; Feb. 20.
Milk processing machine. W. F. Schildman. 1,948,280; Feb. 20.
Mill: *See*—
Grinding mill.
Minnow, Metal. C. T. Pflueger. 1,948,005; Feb. 20.
Mirror and instrument, Combined. W. La Hodny. 1,948,222; Feb. 20.
Mirror attachment, Illuminated. J. A. Hoegger. 1,948,112; Feb. 20.
Mixer: *See*—
Concrete mixer. Water mixer.
Paint mixer.
Mixing apparatus. J. E. Jewett. 1,947,851; Feb. 20.
Mixing apparatus. R. C. Newhouse. 1,947,487; Feb. 20.
Mixing device. W. M. Rolph. 1,948,431; Feb. 20.
Mold: *See*—
Confection mold. Rail welding mold.
Mold. J. D. Warren. 1,948,146; Feb. 20.
Molding machine. N. J. du Donjon. 1,948,205; Feb. 20.
Mop. O. Halperyn. 1,948,212; Feb. 20.
Motion at a distance, Method and apparatus for producing governed. D. J. Angus. 1,948,092; Feb. 20.
Motion of mechanical devices, System for damping the. A. V. Bedford. 1,947,544; Feb. 20.
Motor: *See*—
Circuit controlling motor. Electric motor.
Motor control'er. E. W. Seeger and E. U. Lassen. 1,947,677; Feb. 20.
Mounting for machine guns carried by aircraft. C. A. Larsson and P. R. Higson. 1,947,528; Feb. 20.
Mounting for sewing machines or the like, Resilient. C. S. Thompson. 1,948,193; Feb. 20.
Mounting, Generator. W. H. Radford. 1,947,796; Feb. 20.
Mounting, Motor and pump. T. Tafel, jr. 1,947,665; Feb. 20.
Mounting of brake anchors. A. B. Cadman. 1,947,756; Feb. 20.
Mounting, Ophthalmic. M. R. McDanal. Des. 91,529; Feb. 20.
Mounting, Ophthalmic. W. S. Searles. Des. 91,596; Feb. 20.
Mounting, Ophthalmic. W. S. Searles. Des. 91,598; Feb. 20.
Mounting, Ophthalmic. W. S. Searles. 1,947,882; Feb. 20.
Movable bar. J. Zatzkin. Des. 91,601; Feb. 20.
Mower. E. F. Huddle. 1,947,552; Feb. 20.
Mounting, Engine. W. B. Nold. 1,947,489; Feb. 20.
Multifilament lamp. C. Rebl. 1,948,428; Feb. 20.
Music, Apparatus for teaching. H. B. Walsh. 1,947,686; Feb. 20.
Nail distributor. G. Goddu and F. L. MacKenzie. 1,947,768; Feb. 20.
Nailing machine. F. L. MacKenzie. 1,947,770; Feb. 20.
Neckties, Manufacture of four-in-hand. L. A. Gumport. 1,948,172; Feb. 20.
Needle and cutter plate, Sewing machine. Z. Routtenberg. 1,947,495; Feb. 20.
Nozzle for filling machines, Dripless. J. Schmidt. 1,947,535; Feb. 20.
Nozzle, Multiple flame welding. W. C. Bucknam and G. I. Jones. 1,947,755; Feb. 20.
Oil and resinous bodies, Incorporating. M. B. Hopkins. 1,948,267; Feb. 20.
Oil burner. A. Hofstatter. 1,948,420; Feb. 20.
Oil burner. D. B. Roberts. 1,948,188; Feb. 20.
Oil burner. J. F. Ryan. 1,947,741; Feb. 20.
Oil emulsion treating apparatus. J. B. Turner. 1,948,481; Feb. 20.

Oil from thermatomic carbon, Apparatus for removing. C. Miller. 1,947,789; Feb. 20.
Oil mileage indicator. A. H. Moecker. 1,948,427; Feb. 20.
Oil pressure relief valve. H. Caminez. 1,948,479; Feb. 20.
Oil, Producing lubricating. U. B. Bray and C. E. Swift. 1,948,164; Feb. 20.
Oil, Production of lubricating. D. R. Merrill and P. Subkow. 1,948,042; Feb. 20.
Oils, Method and apparatus for removing. R. J. Garofalo. 1,948,345; Feb. 20.
Oils, Treatment of hydrocarbon. J. C. Morrell and G. Egloff. 1,947,868–9; Feb. 20.
Oils, Treating hydrocarbon. H. P. Parrigin and R. P. Currie. 1,948,003; Feb. 20.
Oil wax separation system. C. E. Adams. 1,948,018; Feb. 20.
Oils with aluminum chloride, Treatment of. U. B. Bray and C. E. Swift. 1,948,163; Feb. 20.
Optical system. J. A. Maurer, jr. 1,947,564–7; Feb. 20.
Optical system. A. Warmisham. 1,947,668; Feb. 20.
Ore separator for wet and other operations, Magnetic. P. H. Thomas. 1,948,080; Feb. 20.
Organic compounds, Inhibiting the decomposition of. G. R. Bond and C. W. Davis. 1,947,578; Feb. 20.
Ornamental surfaces from dispersed media, Forming. E. A. Murphy and E. W. B. Owen. 1,947,870; Feb. 20.
Oscillating energy of desired characteristic, Principle of producing. I. I. Eremeeff. 1,948,169; Feb. 20.
Oscillator, Modulated. P. F. Scofield. 1,947,805; Feb. 20.
Oven, By product coke. L. F. Schrader and F. P. Hart. 1,947,499; Feb. 20.
Oven, Coke. L. F. Schrader and F. P. Hart. 1,947,500; Feb. 20.
Oven for baking. E. M. Crosland. 1,948,440; Feb. 20.
Oxalic acid, Manufacture of. H. C. Duus. 1,948,441; Feb. 20.
Oxidation products, Partial. W. P. Bitler. 1,948,161; Feb. 20.
Ozone generator. W. R. Redd. 1,948,240; Feb. 20.
Package. W. Medoff. 1,948,181; Feb. 20.
Package for the preservation and display of game sets and the like. J. R. Gibson. 1,948,294; Feb. 20.
Package, Sealed. H. G. Allen. 1,948,089; Feb. 20.
Packing, Sheet. C. B. Bailey. 1,948,252; Feb. 20.
Paint mixer. G. A. Smith and J. F. Foster. 1,948,401; Feb. 20.
Paint, Water. H. A. Scholz and W. S. Randel. 1,947,497–8; Feb. 20.
Pan or similar article. P. E. William. Des. 91,576; Feb. 20.
Panel fastener. A. L. Le Page. 1,948,462; Feb. 20.
Panel, Sound absorbing. B. D. McIntyre. 1,947,788; Feb. 20.
Paper box. R. A. Gross. 1,947,711; Feb. 20.
Paper carrying a synthetic resin of petroleum origin and making the same, Sized. C. Ellis. 1,948,442; Feb. 20.
Paper cleaning machine. G. Van Wormer. 1,947,748; Feb. 20.
Paper, Copperized. W. R. Barber, A. G. Natwick, and M. W. Phelps. 1,947,451; Feb. 20.
Paper making machinery. E. E. Berry. 1,947,636; Feb. 20.
Paper, Resinate copperized. W. R. Barber, A. G. Natick, and M. W. Phelps. 1,947,452; Feb. 20.
Paper stock, Apparatus for refining. J. D. DeCew. 1,947,900; Feb. 20.
Parachutes, Retarding device for. W. A. Gibson. 1,947,468; Feb. 20.
Paraformaldehyde, Production of. O. Fuchs and E. Naujoks. 1,948,069; Feb. 20.
Parking device, Spare tire vehicle. J. H. Moffat. 1,948,043; Feb. 20.
Paste tube, Self-sealing. C. Hasse and G. Woolley. 1,948,070; Feb. 20.
Pasteurizing holder. W. F. Schildman. 1,948,279; Feb. 20.
Pen and pencil, Selective contact illuminator. J. Dianovszky. 1,947,975; Feb. 20.
Pencil, Automatic. R. Sabon. 1,947,802; Feb. 20.
Petroleum sulphonates, Making water soluble. L. Liberthson. 1,947,861; Feb. 20.
Petroleum, Treatment and dewaxing of. R. J. Garofalo and C. E. Swift. 1,948,346; Feb. 20.
Phenol, cresols, and benzol-hydrocarbons from crude tar phenols, Production of pure. F. Hofmann and K. Lang. 1,947,648; Feb. 20.
Photographic printing machine. W. L. Post. 1,947,795; Feb. 20.
Photographic printing, System of. G. A. Hatherell, T. M. Ingram, and F. E. Garbutt. 1,947,848; Feb. 20.
Picture projector, Motion. D. P. Moore. Des. 91,530; Feb. 20.
Pipe. E. E. Hall. 1,948,232; Feb. 20.
Pipe coupling. A. Mazza. 1,947,998; Feb. 20.
Pipe joint sealing device. F. R. McMurray. 1,948,274; Feb. 20.
Pipe line. A. H. Riney and L. T. Gibbs. 1,947,616; Feb. 20.
Pipe rack. E. L. Johnston. 1,947,553; Feb. 20.
Pipe threading machine. R. B. Pealer. 1,947,874; Feb. 20.
Piperidine, Production of. D. W. Parkes. 1,947,732; Feb. 20.
Piston. H. H. Wagner. 1,948,405; Feb. 20.
Piston and packing ring. C. C. Farmer. 1,947,701; Feb. 20.
Piston milling and turning machine. F. A. King. 1,948,236; Feb. 20.
Piston pump. R. de Stoutz. 1,947,902; Feb. 20.
Plait for sport coats and the like. R. Karasic. 1,948,177; Feb. 20.
Platen and paper feed for typewriters and the like. C. E. Ansley. 1,947,450; Feb. 20.
Plaque. C. H. Streimer. Des. 91,548; Feb. 20.
Platform, Extensible. H. K. Holden. 1,947,647; Feb. 20.
Plies, Apparatus for cutting and assembling. G. K. McNeill. 1,948,000; Feb. 20.
Plug: *See*—
Fusible blow-out plug.
Plunger lift control device. H. T. Baggett. 1,947,511; Feb. 20.
Plunger lift valve closing device. H. W. Fletcher. 1,947,587; Feb. 20.
Polishing device. J. C. Lecuona. 1,948,423; Feb. 20.
Post: *See*—
Binding post.
Power cleaver. W. J. Campbell. 1,947,896; Feb. 20.
Power press control. H. C. H. Walsh and E. H. Hall. 1,947,892; Feb. 20.
Power transmission chain. D. B. Perry. 1,947,734; Feb. 20.
Power transmission chain, Mechanical. G. H. Tremolieres. 1,948,404; Feb. 20.
Press: *See*—
Metal extrusion press.
Preserving container. J. L. Lagorio. 1,948,353; Feb. 20.
Pressers, Operating mechanism for. N. L. Etten. 1,947,765; Feb. 20.
Pressure tube and hand switch. M. E. Henning. 1,948,175; Feb. 20.
Price indicator. W. E. Shoemaker. 1,948,191; Feb. 20.
Price tag holder. F. Spindler. 1,948,053; Feb. 20.
Products of dimethylolureas. M. Luther. 1,947,997; Feb. 20.
Protector: *See*—
Telephone station outdoor protector.
Pulp, Process and apparatus for the manufacture of. C. B. Thorne. 1,947,888–9; Feb. 20.
Pulverizing machine. E. E. Elzemeyer and H. C. Griesedieck. 1,947,700; Feb. 20.
Pump: *See*—
Centrifugal pump. Piston pump.
Fuel pump. Submersible pump.
Pump and turbine operations, Apparatus for controlling. C. B. Spellman. 1,947,808; Feb. 20.
Pump construction, Self-priming. R. G. Barzen. 1,948,366; Feb. 20.
Pump for molten metal and the like. J. E. Rhoads and G. H. White. 1,947,876; Feb. 20.
Pump for pumping molten metal. G. H. White. 1,947,818; Feb. 20.
Pump unit. S. H. Hobson. 1,947,551; Feb. 20.
Pump valve. L. L. Carson. Re19,088; Feb. 20.
Punch. V. Kalfus. 1,948,215; Feb. 20.
Purine compounds and preparing them, Mercury containing. C. L. Lautenschläger, M. Bockmühl, and W. Persch. 1,948,179; Feb. 20.
Puzzle section carrying device. A. J. Liebl. 1,947,947; Feb. 20.
Rack: *See*—
Medicine shelf rack. Pipe rack.
Rack. H. H. Fante. 1,947,932–3; Feb. 20.
Radiator. T. E. McGrail. 1,947,913; Feb. 20.
Radiator shutter. E. G. Petersen. 1,947,875; Feb. 20.
Radiocabinet or the like. M. Stansbury. Des. 91,545; Feb. 20.
Radio receiving apparatus. W. J. A. Raffel. 1,947,660; Feb. 20.
Railroads, Method of building and constructions for underground. G. Janssen. 1,948,114; Feb. 20.
Rail, Roof bow trim. T. J. Swan. 1,947,682; Feb. 20.
Railway braking apparatus. H. L. Bone. 1,947,638; Feb. 20.
Railway journal lubricator. J. J. Hennessy. 1,948,297; Feb. 20.
Railway system, Electric. A. M. Rossman. 1,947,494; Feb. 20.
Rail welding mold. E. F. Begtrup. 1,947,966; Feb. 20.
Rake, Hay. A. E. Rutter. 1,947,572; Feb. 20.
Range, Detachable unit, table top electric. J. Teller and A. P. Schulz. 1,948,402; Feb. 20.
Ratio of the ingredients in a mixture of gases or liquids, Device for measuring the. E. Schweitzer. 1,947,923; Feb. 20.
Razor blade and holder. W. G. Adams. 1,947,633; Feb. 20.
Razor blades, Device for honing and stropping. A. Hazan. 1,947,849; Feb. 20.
Reamer. J. G. Matthews. 1,947,531; Feb. 20.
Receptacle and cover operating mechanism therefor. C. Carola. 1,948,413; Feb. 20.
Receptacle holder. D. E. and E. Sandberg. 1,947,879; Feb. 20.
Recording device for meters. G. G. Waite and G. W. Lawrence. 1,947,816; Feb. 20.
Rectifying and filtering system, Electrical. B. F. Miessner. 1,948,307; Feb. 20.
Reel: *See*—
Fishing reel. Hose reel.
Reenforced tank. W. J. Simonds. 1,948,137; Feb. 20.
Refining apparatus. P. S. Nisson. 1,948,126; Feb. 20.

Refrigerated display case. A. V. Phillips. 1,948,312; Feb. 20.
Refrigerating apparatus. B. Miller. 1,948,275; Feb. 20.
Refrigerating system. E. Maxwell. 1,948,389; Feb. 20.
Refrigeration apparatus. E. T. Williams. 1,947,574; Feb. 20.
Refrigeration machine. R. L. Alexander and J. R. McCallum. 1,948,155; Feb. 20.
Refrigerator construction. R. T. Smith. 1,947,807; Feb. 20.
Regulating system. A. S. Fitz Gerald. 1,948,372; Feb. 20.
Regulator: *See*—
Fluid pressure regulator. Mechanical clearance regulator.
Gas pressure regulator.
Relay. W. C. Broekhuysen. 1,947,641; Feb. 20.
Remote control device. W. Shakespeare, jr. 1,947,536; Feb. 20.
Removable core lock. T. Bargman. 1,947,443; Feb. 20.
Resin and its production, Synthetic. M. R. Bhagwat. 1,948,465; Feb. 20.
Resin, Oil-soluble. K. M. Irey. 1,948,469; Feb. 20.
Resin, Prepared. C. A. Thomas. 1,947,626; Feb. 20.
Resistor, Low gradient. E. G. Lodge. 1,948,354; Feb. 20.
Restrictor. I. Emanuell. 1,947,929; Feb. 20.
Ring: *See*—
Piston and packing ring.
Ring construction for ornamenting rims. G. A. Lyon. 1,948,272; Feb. 20.
Rivet fastener. W. H. Fine. 1,947,906; Feb. 20.
Rivet setting machine. E. B. Stimpson. 1,947,680; Feb. 20.
Rock wool product, Apparatus for producing. E. R. Powell. 1,948,395; Feb. 20.
Rods, Making connecting. B. F. Hopkins and J. V. O. Palm. 1,948,176; Feb. 20.
Roll, Chilled. W. H. Seaman. 1,948,243; Feb. 20.
Roll and making same, Chilled. W. H. Seaman. 1,948,244–5; Feb. 20.
Roll machine for preparing foundry sand. H. E. Boughton. 1,948,328; Feb. 20.
Roll, Metal. W. H. Seaman. 1,948,246; Feb. 20.
Roller clutch. O. E. Fishburn. 1,947,703; Feb. 20.
Rolling, Apparatus for. R. J. Wean and A. D. Evans. 1,948,148; Feb. 20.
Rotary cutting tool. A. Tscherne. 1,948,057; Feb. 20.
Rubber articles, Production of. E. A. Murphy and R. G. James. 1,947,871; Feb. 20.
Rubber, Compounding. W. S. Calcott and W. A. Douglass. 1,947,458; Feb. 20.
Rubber poor in albumen, Producing. H. Meidel. 1,947,949; Feb. 20.
Rubber product and making the same, Twisted fibrous. E. N. Cunningham. 1,947,759; Feb. 20.
Rubberized material, Creping. J. J. Sindler. 1,948,138; Feb. 20.
Rule, Slide. B. G. Dwyre. 1,947,699; Feb. 20.
Running board structure. B. Bronson. 1,947,824; Feb. 20.
Safety device for brake beams of railway cars. W. C. Reed. 1,947,615; Feb. 20.
Salt and pepper shaker assembly. H. H. Dulany. Des. 91,555; Feb. 20.
Salt shaker. H. R. Isenbower. 1,947,600; Feb. 20.
Salts of sulphonic acid soluble in mineral and fatty oils and the products thereof, Manufacture of heavy metal. S. L. Langedijk. 1,947,652; Feb. 20.
Sash assembly, Detention. W. D. Bayley. 1,948,230; Feb. 20.
Sausage machine. E. Wengel. 1,946,541; Feb. 20.
Sausages, Treating. C. H. Vogt. 1,947,506; Feb. 20.
Saw, Scroll. W. H. Young. 1,948,229; Feb. 20.
Scaffold, Window. J. Victor. 1,947,629; Feb. 20.
Scavenger for coin controlled mechanism. W. L. Gilchrist. 1,947,767; Feb. 20.
Scissors, Manufacture of. H. Beckman. 1,947,964; Feb. 20.
Scraper, Wheeled. H. Ricks. 1,947,661; Feb. 20.
Screen: *See*—
Window screen.
Screen. C. H. Nordell. 1,948,125; Feb. 20.
Screen for use with X-rays, Variable. F. Liberson. 1,948,270; Feb. 20.
Sealing means. W. M. Brooks. 1,948,255; Feb. 20.
Seat for vehicles, Collapsible. W. F. Feyrer. 1,947,980; Feb. 20.
Seed mixing machine. F. W. Gerstandt. 1,948,231; Feb. 20.
Separator: *See*—
Bowl separator. Siphon gravity separator.
Dust separator.
Separators, Method of and apparatus for making battery plate. J. R. Silver, jr. 1,948,081; Feb. 20.
Septum separator and method, Wetted. M. E. Garrison and W. F. Van Loenen. 1,947,709; Feb. 20.
Sewing machines, Blind stitch. C. W. Mueller. 1,947,950; Feb. 20.
Sewing machines, Knee-control mechanism for electric. D. H. Chason. 1,947,827; Feb. 20.
Shade, Window. S. E. Snyder. 1,948,432; Feb. 20.
Shaker and decanter, Combination. E. Kanter. Des. 91,526; Feb. 20.
Sharpener for slicing machines. W. J. Campbell. 1,947,899; Feb. 20.
Shear, Rotary flying. J. A. Smithmans. 1,948,139; Feb. 20.
Sheet feeder. C. J. Mensman and E. D. Rader. 1,948,001; Feb. 20.
Sheet or signature separating and feeding mechanisms. E. R. Kast. 1,948,038; Feb. 20.
Sheet slitting machine. G. W. Lentz. 1,948,385; Feb. 20.
Shell lining for Jordan engines. F. M. Gloyd. 1,947,644; Feb. 20.
Shift lever. M. C. Hedgeland. 1,947,988; Feb. 20.
Shipping case and supporting frame for refrigerating apparatus. E. Heitman and A. H. Sack. 1,947,850; Feb. 20.
Shock absorber. C. H. Kindl. 1,948,036; Feb. 20.
Shock absorber. J. E. Padgett. 1,948,185; Feb. 20.
Shock absorber for parachutes. S. Wiley. 1,947,507; Feb. 20.
Shoe. C. H. Daniels. Des. 91,513; Feb. 20.
Shoe. F. W. Ellington. Des. 91,516; Feb. 20.
Shoe. C. Miller. Des. 91,587–91; Feb. 20.
Shoe. C. Morali. Des. 91,531; Feb. 20.
Shoe bottom filling machine. A. H. Avery. 1,947,963; Feb. 20.
Shoe construction. C. H. Raut. 1,947,922; Feb. 20.
Shoe sole and producing the same, Rubber. C. P. Mebane. 1,948,390; Feb. 20.
Shoes, Manufacturing. H. R. Perry. 1,948,127; Feb. 20.
Signal: *See*—
Flare signal. Vehicle direction signal.
Signal for adding machines, Automatic. G. J. Barrett. 1,947,512; Feb. 20.
Signal for cameras, Automatic shutter. F. Kueppers. 1,948,039; Feb. 20.
Signal for railway crossings, Warning. M. G. Slawson. 1,947,925; Feb. 20.
Signaling. J. L. Finch. 1,948,103; Feb. 20.
Silk, Dyeing acetose. K. Koeberle and J. Mueller. 1,947,855; Feb. 20.
Siphon gravity separator. H. A. Strohl. 1,948,140; Feb. 20.
Ski. R. W. Patten. Des. 91,593; Feb. 20.
Slack adjuster. W. H. Baselt. 1,947,444; Feb. 20.
Slicing machine. W. J. Campbell. 1,947,897–8; Feb. 20.
Slicing machine. W. A. Van Berkel. 1,947,628; Feb. 20.
Slide fastener. G. Johnson. 1,948,301; Feb. 20.
Snubbing apparatus for oil wells. L. M. C. Seamark. 1,947,622; Feb. 20.
Soaps, Apparatus for handling. C. M. Larson. 1,947,994; Feb. 20.
Socket, Electric candle. W. C. Tregoning. 1,948,144; Feb. 20.
Socket structure. E. G. Reinhardt. 1,947,798; Feb. 20.
Sodium calcium cyanide, Treatment of. E. J. Franke. 1,947,570; Feb. 20.
Sodium ethyl oxalacetate and the product thereof, Making. R. M. Carter and W. L. Johnson. 1,948,201; Feb. 20.
Solder to sheet metal, Apparatus and method for applying strips of. C. Helle. 1,948,379; Feb. 20.
Sound reproducer. S. A. Soille. 1,948,361; Feb. 20.
Spectacles, Pair of. E. E. Emons. Des. 91,518; Feb. 20.
Spool. R. Etzkorn. 1,947,642; Feb. 20.
Spoon or other article of flatware. E. J. Conroy. Des. 91,511; Feb. 20.
Spray forming and air conditioning device. R. L. Payne and G. E. Marics. 1,948,278; Feb. 20.
Sprayer, Liquid. N. Meurer. 1,948,306; Feb. 20.
Spring or resilient wheel. M. E. Bennett. 1,948,412; Feb. 20.
Spring shackle, Automobile. F. C. Hobler. 1,948,110; Feb. 20.
Spring structure. W. A. Falls. 1,947,931; Feb. 20.
Spring structure. C. S. Reed. 1,948,130; Feb. 20.
Springs, Treating. P. O. F. Vorwerk. 1,947,927; Feb. 20.
Staking machine. G. A. Schettler. 1,947,619; Feb. 20.
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Staple extractor. J. F. Cavanagh. 1,948,096; Feb. 20.
Starter for internal-combustion engines, Automatic. K. R. Blake. 1,948,198; Feb. 20.
Steel, Producing. W. J. Popham. 1,947,735; Feb. 20.
Steel, Treating. A. R. Stargardter. 1,948,192; Feb. 20.
Steering mechanism with remote power unit, Hydraulic. F. W. Davis. 1,947,973; Feb. 20.
Still header and assembling tool, Pressure. S. H. Edwards. 1,948,028; Feb. 20.
Stoker, Locomotive. N. M. Lower. 1,947,723–4; Feb. 20.
Stoker mechanism. E. A. Turner. 1,947,684–5; Feb. 20.
Stone, Old. A. A. Schmidt. 1,948,079; Feb. 20.
Stop for rotating parts. E. M. Shinkle. 1,947,502; Feb. 20.
Stop, Wall and floor. E. F. Piland. 1,947,954; Feb. 20.
Storage battery. O. E. Huebner. 1,947,473; Feb. 20.
Storage battery case. F. T. Kalas. Des. 91,525; Feb. 20.
Store-front construction. L. Lamer. 1,947,651; Feb. 20.
Stove. B. B. Kahn. 1,947,554; Feb. 20.
Stove, Cooking. M. G. Klemme. 1,948,118; Feb. 20.
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Strain equalizing device. W. P. Frost. 1,947,708; Feb. 20.
Striking tool. E. H. W. Weibull. 1,948,409; Feb. 20.
Strip aligning and tensioning device. L. F. Hagemann. 1,948,032–3; Feb. 20.
Striping machine, Automatic. F. H. Harmon. 1,947,714; Feb. 20.
Stropper, Razor. O. C. Brooks. 1,948,165; Feb. 20.
Submersible pump. K. Wernert. 1,947,630; Feb. 20.
Sucker rods, Making. V. B. Browne. 1,947,969; Feb. 20.
Sugar explosive, Nitrated. H. A. Lewis. 1,947,530; Feb. 20.

Sulphate of alumina, Production of. R. S. Perry. 1,948,004; Feb. 20.
Sulphur and of sulphur and ammonia from gases, Removal of. W. Gluud, F. Brodkorb, and W. Klempt. 1,947,983; Feb. 20.
Sulphur from the products containing sulphur obtained from the wet purification of gas and especially of coal distillation gases. W. Fitz. 1,947,467; Feb. 20.
Sulphur recovery. L. F. W. Leese. 1,947,529; Feb. 20.
Superregenerative receiver. W. van B. Roberts. 1,948,315; Feb. 20.
Supply indicator for refrigerators, Fuel. M. Resck. 1,948,447; Feb. 20.
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Surfaces, Imitating. L. V. Casto. 1,947,459; Feb. 20.
Surfacing apparatus. P. J. M. Escole. 1,947,930; Feb. 20.
Surgical instrument. G. J. Kadavy. 1,947,649; Feb. 20.
Suspension for track-laying vehicles. H. A. Knox and T. H. Nixon. 1,947,475; Feb. 20.
Swinging holder. H. Reichardt. 1,948,131; Feb. 20.
Switch: *See*—
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Switch box with plug-in cable connection. E. G. K. Anderson. 1,947,634; Feb. 20.
Switch gear, Electrical. H. J. H. Huber. 1,948,350; Feb. 20.
Switch position indicator. I. Brandenburger. 1,948,254; Feb. 20.
Syringe, Automatic displacement. F. Liberson. 1,948,388; Feb. 20.
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Table for constructing screens and the like. C. R. Parrish. 1,947,794; Feb. 20.
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Tank lining and method of lining tanks. A. B. Merrill. 1,947,532; Feb. 20.
Tape, "Zipper". N. Warshaw. 1,948,406; Feb. 20.
Tar or pitch and apparatus therefor, Distillation of. S. P. Miller. 1,947,485; Feb. 20.
Telegraph repeating and receiving apparatus. H. H. Haglund. 1,947,984; Feb. 20.
Telegraph system. M. H. Woodward and A. F. Connery. 1,948,364; Feb. 20.
Telegraph system. C. W. Burcky and A. H. Reiber. 1,947,694; Feb. 20.
Telephone station outdoor protector. G. W. Rodormer. 1,948,078; Feb. 20.
Tensile strength of cellulose and product, Increasing. A. J. Pacini. 1,948,276; Feb. 20.
Tetrachloroethylene, Preparing. J. H. Reilly. 1,947,491; Feb. 20.
Textile fabric. H. Dreyfus. 1,947,465; Feb. 20.
Textile fabric or similar article. G. M. King. Des. 91,585; Feb. 20.
Textile fabric or similar article, Embroidered. M. Hofmann. Des. 91,583; Feb. 20.
Textile material, Improving or modifying acetyl cellulose. K. Beck. 1,947,928; Feb. 20.
Textile machinery. W. A. Dickie and W. Howarth. 1,947,976; Feb. 20.
Thermionic tube. F. S. McCullough. 1,948,122; Feb. 20.
Thermoelectric element and thermocouple. O. Hermann. 1,947,595; Feb. 20.
Ticket holding and shearing device. H. T. Krakau. 1,947,856; Feb. 20.
Tire. C. F. Offensend. Des. 91,536; Feb. 20.
Tire carrier. F. G. Alborn. 1,947,820; Feb. 20.
Tire changing machine, Automobile. R. S. Stafford and J. Schrag. 1,948,434; Feb. 20.
Tire deflation indicator. G. E. Denhart. 1,947,760; Feb. 20.
Tire, Vehicle. C. B. Orr. 1,948,311; Feb. 20.
Toilet and chamber therefor, Child's traveling case. E. V. Isom. 1,947,940; Feb. 20.
Toilet apparatus. J. Moore. 1,948,182; Feb. 20.
Toilet valve. H. N. Wayne. 1,947,627; Feb. 20.
Tone control, Automatic. W. S. Barden. 1,947,822; Feb. 20.
Tone quality control. H. J. Loftis. 1,947,557; Feb. 20.
Tool: *See*—
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Tool grinding machine, Thread. J. Edgar. 1,947,466; Feb. 20.
Tool joint. A. Hollander. 1,947,909; Feb. 20.
Toothbrush. J. J. Janik. 1,948,233; Feb. 20.
Toothbrush. S. V. Laub. 1,947,720–2; Feb. 20.
Tooth paste, Manufacturing an acid. E. Bergve. 1,947,635; Feb. 20.
Top lift attachment. J. F. Fitzsimmons. 1,947,840; Feb. 20.
Toy stove. E. E. Drumm. 1,948,100; Feb. 20.
Track jack. C. Spagna. 1,947,537; Feb. 20.
Traffic controlling apparatus, Railway. G. W. Baughman and F. H. Nicholson. 1,948,197; Feb. 20.
Traffic controlling system. H. J. Littlefield. 1,948,424; Feb. 20.
Transferring device. W. L. McNamara. 1,947,610; Feb. 20.
Transformer, High potential. F. J. Fischer. 1,948,417; Feb. 20.
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Tread belt link, Endless. T. A. Snyder. 1,947,883; Feb. 20.
Trousers support. A. L. Andrews. 1,948,251; Feb. 20.
Truck brake rigging. F. E. Schwentler. 1,947,675; Feb. 20.
Truck frame. P. C. Withrow and B. F. Fry. 1,948,151; Feb. 20.
Truck, Railway. A. C. Wintemberg. 1,948,250; Feb. 20.
Truck wheel, Dual-tired. L. D. Kay. 1,947,911; Feb. 20.
Trucking equipment, Floor. J. T. Earle and A. McNeese. 1,948,206; Feb. 20.
Trunk and carrier for automobiles. W. H. Taylor. 1,947,745; Feb. 20.
Tub. J. J. McCabe. Des. 91,568–71; Feb. 20.
Tub cover. J. E. Dillard. 1,948,204; Feb. 20.
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Tubes, Deflating pneumatic. W. V. Smith. 1,947,678; Feb. 20.
Tumbler fluting machine. H. R. Schutz. 1,947,881; Feb. 20.
Tuning instrument. O. C. Deutscher. 1,947,584; Feb. 20.
Tuning system, Preselector. M. Flaherty. 1,948,373; Feb. 20.
Turbine blade. W. Rohn. 1,948,448; Feb. 20.
Turbine, Hydraulic. G. A. Biggs. 1,948,478; Feb. 20.
Typewriters, Ribbon holding and feeding mechanism for. H. T. Mosfelt and H. Schagerholm. 1,947,730; Feb. 20.
Ullage rod and ventiduct, Combination. W. F. Oliver and J. R. Heidloff. 1,948,310; Feb. 20.
Universal joint. B. T. Williston. 1,947,959; Feb. 20.
Utensil, Waterless cooking. J. T. Morgan. 1,948,124; Feb. 20.
Utensils, Manufacture of paper. L. A. Pratt and G. E. Gould. 1,948,314; Feb. 20.
Vacuum pan control, System of. W. E. Smith. 1,948,052; Feb. 20.
Vacuum tube, Three-electrode. J. Biguet. 1,947,514; Feb. 20.
Valuable constituents from hydrogenation catalysts, Recovery of. R. N. Watts. 1,948,407; Feb. 20.
Valve: *See*—
Annular valve. Oil pressure relief valve.
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Valve. J. G. Gibson. 1,947,935; Feb. 20.
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Valve actuating mechanism. H. D. Church. 1,948,023; Feb. 20.
Valve actuating mechanism. H. D. Church. 1,948,414; Feb. 20.
Valve actuating mechanism. R. M. Cooper. 1,948,415; Feb. 20.
Valve converting system, Electric. C. A. Salbah. 1,948,360; Feb. 20.
Valve cotter for internal combustion engines. A. F. Payne. 1,947,534; Feb. 20.
Valve for shock absorbers. E. F. Rossman. 1,948,068; Feb. 20.
Valve lifter. J. Sunnen. 1,948,248; Feb. 20.
Valve part assembling machine. L. C. Broecker. 1,948,466; Feb. 20.
Valve plate and making it. W. M. Bailey. 1,947,453; Feb. 20.
Vanity case. L. C. Wolfson. 1,948,086; Feb. 20.
Vapor generator. A. J. Nernd. 1,948,356; Feb. 20.
Vapors, Fractionating. J. S. Wallis. 1,947,817; Feb. 20.
Variable resistance device. A. O. Codney and D. J. Somerville. 1,947,828; Feb. 20.
Vault, Burial. R. H. Zerfing. Des. 91,550; Feb. 20.
Vehicle body construction, Motor. A. L. Luce. 1,948,223; Feb. 20.
Vehicle direction signal. D. A. Rossi. 1,948,050; Feb. 20.
Vehicle dump body. A. A. Forde. 1,948,170; Feb. 20.
Vehicle electric system, Motor. E. E. Huntington. 1,948,443; Feb. 20.
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Vehicle, Railway. A. J. Townsend. 1,947,683; Feb. 20.
Vehicle structure, Railway. G. F. Driemeyer. 1,948,250; Feb. 20.
Vending machine. J. H. McCormick and F. M. Bender. 1,947,999; Feb. 20.
Vending machine, Coin controlled. R. A. Vogel. 1,947,891; Feb. 20.
Vending machine, Multiple coin actuated. W. L. Gilchrist and W. T. Hoofnagle. 1,948,107; Feb. 20.
Vessel and cover for electric cooker, Combined. M. W. Hanks. Des. 91,521; Feb. 20.
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Vibration responsive device. F. A. Firestone, E. J. Abbott, and H. B. Vincent. 1,948,104; Feb. 20.
Vibrating device. L. B. Cornwell. 1,948,167; Feb. 20.
Vulcanizing a molded strip, Apparatus for. C. E. Siegfried. 1,948,011; Feb. 20.
Wagon, Coaster. A. Pasin. Des. 91,540; Feb. 20.
Wagon underframe. R. R. Cease. 1,948,256; Feb. 20.
Wardrobe, Collapsible. A. Stone. 1,947,955; Feb. 20.
Wardrobe suitcase. A. Fiss. 1,947,838; Feb. 20.
Warp stop motion. J. J. Kaufmann. 1,947,992; Feb. 20.
Washing machine differential drive unit. H. H. Harlan. 1,947,985; Feb. 20.
Watch stem and crown setting. H. Gisiger. 1,948,171; Feb. 20.
Water closet. J. C. Duner. 1,948,101; Feb. 20.
Water mixer. J. W. Myers and E. E. Murray. 1,948,044; Feb. 20.
Water of crystallization from crystals and/or solids, Removing. W. V. N. Powelson. 1,948,313; Feb. 20.
Water purification. O. M. Urbain. 1,947,747; Feb. 20.
Weather strip. J. A. Goellner. 1,948,108; Feb. 20.
Weaving. R. Rossmann. 1,948,051; Feb. 20.
Weed cutter. G. J. Linscomb. 1,947,785; Feb. 20.
Welders, Electric automatic volt and heat control for. B. A. Hacker. 1,948,377; Feb. 20.
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Wheel and making it. A. W. Woodward. 1,948,324; Feb. 20.
Wheel and tire, Vehicle. P. M. Bourdon. 1,948,060; Feb. 20.
Wheel assembly. J. G. Swain. 1,948,320; Feb. 20.
Wheel for motor vehicles of all kinds, Resilient. L. Elsele. 1,947,643; Feb. 20.
Wheel hub cover, Wire. W. R. Milner. 1,948,237; Feb. 20.
Wheel hub, Vehicle. F. Winkler. 1,947,960; Feb. 20.
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Wheels, Making' casting. J. H. Doorbar. 1,947,462; Feb. 20.
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Window. R. W. Zimmerman. 1,948,152–3; Feb. 20.
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Window screen. G. O. Gabriel. 1,948,262; Feb. 20.
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Wiper and closure therefor, Oil depth gauge-rod. C. M. Dolbier. 1,947,833; Feb. 20.
Wiper, Windshield. E. F. Sandman. 1,947,803; Feb. 20.
Wire. Apparatus for insulating and wrapping tire bead. H. A. Denmire. 1,947,974; Feb. 20.
Wire netting Reenforced. J. Bölger. 1,947,754; Feb. 20.
Wood grinding machine. A. N. Russell and J. D. Robb. 1,948,189; Feb. 20.
Work feed, Centerless. H. Isler. 1,948,113; Feb. 20.
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Wrapper and package therewith, Package formed. L. M. Sawin. 1,947,618; Feb. 20.
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X-ray apparatus. J. J. Grobe and A. J. Kizaur. 1,947,846; Feb. 20.
Zinc sheets particularly adapted for use in galvanic cells, Production of. P. Mittman. 1,947,948; Feb. 20.

CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number

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242— 18: 1,948,438
84. 5: 1,948,333
86: 1,948,158
118: 1,947,642
124: 1,948,430
158: 1,948,305
244— 12: 1,948,426
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245— 10: 1,947,668
246— 29: 1,948,077
63: 1,948,197
247— 20: R. 19,092
248— 11. 5: 1,947,879
14: 1,947,665
14. 2: 1,947,489
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31: 1,947,995
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250— 11: 1,947,469
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17: 1,948,103
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27: 1,947,569
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27. 5: 1,947,514
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34: 1,947,846
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40: 1,947,584
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128: R. 19,088
137: 1,948,062
144: 1,947,534
1,948,375
164: R. 19,087
252— 6: 1,947,725
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144: 1,948,478
148: 1,947,653
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254— 2: 1,948,073
28: 1,948,096
38: 1,948,123
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98: 1,948,446
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136: 1,947,913
151: 1,948,149
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39: 1,948,021
82: 1,948,231
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117: 1,948,431
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119: 1,947,563
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128. 5: 1,948,102
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130. 5: 1,948,330
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156: 1,948,286
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94: 1,947,777
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268— 50: 1,947,727
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138: 1,947,772
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296— 28: 1,948,223
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299— 90: 1,948,306
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67: 1,948,324
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U.S. GOVERNMENT PRINTING OFFICE: 1934

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adam, Jules, & Co. (See Haag, Alfred.)

Alliance Company, The. (See Haim, Irving.)

Alliance Distributors, Inc., New York, N. Y. Whiskey. Serial Nos. 346,146–7; Feb. 27. Class 49.

American Brass & Steel Products Co., New York, N. Y. Buttons, rivets, eyelets, etc. Serial No. 306,481; Feb. 27. Class 40.

American Cone & Pretzel Company, Philadelphia, Pa. Pretzels. Serial No. 345,618; Feb. 27. Class 46.

American Smelting and Refining Company, New York, N. Y. Copper. Serial No. 340,461; Feb. 27. Class 14.

American Tobacco Company, The, New York, N. Y. Tobacco. Serial No. 346,040; Feb. 27. Class 17.

Anderson & Shaw, Limited, Glasgow, Scotland. Whisky. Serial No. 344,627; Feb. 27. Class 49.

Archer Rubber Company, Milford, Mass. Rubberized fabrics. Serial No. 345,931; Feb. 27. Class 50.

Ardell Razor Blade Corporation, New York, N. Y. Razor blades and razors. Serial No. 344,879; Feb. 27. Class 23.

Atlas Publishing Company, New York, N. Y. Periodical. Serial No. 345,234; Feb. 27. Class 38.

Baltimore Pure Rye Distilling Company, The, Dundalk, Md. Pure rye whiskey. Serial No. 345,092; Feb. 27. Class 49.

Batavia Products, Inc. (See Erickson, Bertil.)

Baxter, C. R., & Co. Limited, Dundee, Scotland. Scotch whisky. Serial No. 345,094; Feb. 27. Class 49.

Beauty Utilities, Inc., Newark, N. J. Permanent waving lotion. Serial Nos. 345,452–3; Feb. 27. Class 6.

Belle City Malleable Iron Company, Racine, Wis. Iron and iron alloys and castings. Serial No. 345,195; Feb. 27. Class 14.

Ben-Burk, Inc., Boston, Mass. Gin, cordials, etc. Serial No. 344,629; Feb. 27. Class 49.

Benegas Hnos. & Cia. Lda., Sociedad Anonima Industrial, Buenos Aires, Argentina. Grape juices. Serial No. 342,214; Feb. 27. Class 45.

Berry, Ray C., doing business as Corrective Foods, Chicago, Ill. Dietary aid and supplement in conditions of vitamin and mineral deficiency. Serial No. 345,005; Feb. 27. Class 6.

Berth Robert-Gross, Inc., New York, N. Y. Magazine articles. Serial No. 340,766; Feb. 27. Class 38.

Better Drug Products Inc., Tulsa, Okla. Douche powder. Serial No. 343,485; Feb. 27. Class 6.

Bisceglia Bros., San Jose, Calif. Whiskies, alcoholic cordials, brandies, etc. Serial No. 345,235; Feb. 27. Class 49.

Bliss, Harry L., New York, N. Y. Face creams, manicure preparations, hair preparations, etc. Serial No. 343,436; Feb. 27. Class 6.

Bloomer Beverage Company, Bloomer, Wis. Beer. Serial No. 344,182; Feb. 27. Class 48.

Bon Ton Beverages, Incorporated, Chicago, Ill. Whiskey. Serial No. 346,228; Feb. 27. Class 49.

Bon Ton Beverages, Incorporated, Chicago, Ill. Dry gin. Serial No. 346,229; Feb. 27. Class 49.

Booth, Arthur, & Co., Ltd., Glasgow, Scotland. Whisky. Serial No. 341,474; Feb. 27. Class 49.

Bourjois, Inc., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 338,482; Feb. 27. Class 6.

Breon, George A., & Company, Incorporated, Kansas City, Mo. Therapeutic products. Serial No. 345,934; Feb. 27. Class 6.

British Columbia Distillery Company Limited, The, Vancouver, British Columbia, Canada. Whiskey, etc. Serial No. 345,236; Feb. 27. Class 49.

Bulloch Lade & Company Limited, Glasgow, Scotland. Scotch whisky. Serial No. 344,384; Feb. 27. Class 49.

Burrough, James, Limited, London, England. Rum, brandy, gin, etc. Serial No. 344,387; Feb. 27. Class 49.

Byron Weston Company, Dalton, Mass. Paper. Serial No. 345,803; Feb. 27. Class 37.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Sulphur for soil amendments and conditioners. Serial No. 343,269; Feb. 27. Class 6.

Camis & Stock. (See Stock, Lionello.)

Canada Dry Ginger Ale, Incorporated, New York, N. Y. Carbonated water. Serial No. 332,291; Feb. 27. Class 45.

Canton Brewing Company, The, Canton, Ohio. Beer. Serial No. 342,830; Feb. 27. Class 48.

Cellufoam Corporation, Chicago, Ill. Sanitary napkins. Serial No. 344,701; Feb. 27. Class 44.

Cerro de Pasco Copper Corporation, New York, N. Y. Metal alloys. Serial Nos. 336,075–7; Feb. 27. Class 14.

Champion Spring Company, The, Cleveland, Ohio. Bed springs. Serial No. 344,618; Feb. 27. Class 32.

Charron, Alexandre, doing business as Warren Chemical Company, Fall River, Mass. Stove polish. Serial No. 340,938; Feb. 27. Class 4.

Cherry Growers Packing Company, Traverse City, Mich. Canned cherries. Serial No. 345,542; Feb. 27. Class 46.

Clark, James, Distilling Corporation, Jersey City, N. J. Gin. Serial No. 344,830; Feb. 27. Class 49.

Clark, James, Distilling Corporation, Jersey City, N. J. Whiskey. Serial No. 344,967; Feb. 27. Class 49.

Cohn & Rosenberger, Inc., New York, N. Y. Strings of pearls, necklaces, bracelets, etc. Serial No. 345,412; Feb. 27. Class 28.

Colavit, Theodosio, doing business as The Colavit's Food Products Company, Perkasie, Pa. Butter. Serial No. 345,458; Feb. 27. Class 46.

Colonial Distilling & Distributing Corporation, New York, N. Y. Whiskey. Serial No. 345,460; Feb. 27. Class 49.

Commercial Solvents Corporation, New York, N. Y. Solvent mixtures. Serial No. 344,523; Feb. 27. Class 6.

Connecticut Distilleries, Inc., Nash's Corners, Westport, Conn. Brandy. Serial No. 344,762; Feb. 27. Class 49.

Cook, T. K., Cleveland, Ohio. Maltless beverages and syrups and extracts for making the same. Serial No. 346,236; Feb. 27. Class 45.

Cool Burn Relief Lotion Company, West Willington, Conn. Lotion for burns, scalds, etc. Serial No. 342,997; Feb. 27. Class 6.

Cornell-Dubilier Corporation, New York, N. Y. Electrical condensers. Serial No. 345,591; Feb. 27. Class 21.

Corrective Foods. (See Berry, Ray C.)

Courtney, Nicholas P., doing business as The Lev-A-Lift Co., New York, N. Y. Device for opening cans or like receptacles. Serial No. 343,113; Feb. 27. Class 28.

Coward Shoe Incorporated, New York, N. Y. Hosiery. Serial No. 344,838; Feb. 27. Class 39.

Dacar Products Company, The, Canton, Ohio. Refractory material. Serial No. 345,758; Feb. 27. Class 12.

Dale Drug Products. (See Dodge, Roy E.)

Dal-Worth Oil Products Company. (See Stadlman, Wallace J.)

Danove, Arthur G., Hammond, La. Food-seasoning preparation. Serial No. 341,242; Feb. 27. Class 46.

Davis, Leopold & Co., Inc., New York, N. Y. Whiskey. Serial No. 346,556; Feb. 27. Class 49.

Davis & Zigmond, Limited, London, England. Whisky. Serial No. 346,289; Feb. 27. Class 49.

De Hart, James, doing business as James De Hart, Winston-Salem, N. C. Football game. Serial No. 345,416; Feb. 27. Class 22.

Deisel-Wemmer Gilbert Corp., The, Detroit, Mich. Cigars. Serial No. 345,823; Feb. 27. Class 17.

De-O-eZ Products Corporation, Rochester, N. Y. Polishing and cleaning powder. Serial No. 331,220; Feb. 27. Class 4.

Dodge, Harry, doing business as Harry Dodge Co., Los Angeles, Calif. Whiskey, etc. Serial No. 346,292; Feb. 27. Class 49.

Dodge, Roy E., doing business as Dale Drug Products, Chicago, Ill. Headache tablets. Serial No. 344,893; Feb. 27. Class 6.

Dowling Brothers Distilling Co., Incorporated, Burgin, Ky. Whiskey. Serial No. 343,979; Feb. 27. Class 49.

Drug Products Co., Inc., The, Long Island City, N. Y. Colloidal calcium malate preparation. Serial No. 345,383; Feb. 27. Class 6.

Dunbar, John, & Co. Limited, London, England. Scotch whisky. Serial No. 344,396; Feb. 27. Class 49.

Epperson, Frank W., Oakland, Calif. Maltless powder. Serial No. 326,464; Feb. 27. Class 45.

Erickson, Bertil, doing business as Batavia Products, Inc., Brooklyn, N. Y. Alcoholic punches and other potable distilled liquors. Serial No. 343,919; Feb. 27. Class 49.

Esposito, Anthony, doing business as The Five Star Javelle Water Company, Philadelphia, Pa. Javelle water. Serial No. 343,904; Feb. 27. Class 6.

Etablissements E. Bizeon Inc., New York, N. Y. Whiskey, brandy, and cognacs. Serial No. 342,746; Feb. 27. Class 49.

Etablissements E. Bizeon Inc., New York, N. Y. Whiskey. Serial No. 342,749; Feb. 27. Class 49.

Federal Research Corporation, Woodland, Ill. Waxes for floors, etc. Serial No. 337,293; Feb. 27. Class 16.

Finch, Jos. S., & Company, Schenley, Pa., and New York, N. Y. Whiskey, gin, brandy, etc. Serial No. 346,115; Feb. 27. Class 49.

Finch, Jos. S., & Company, Schenley, Pa., and New York, N. Y. Whiskey, gin, rum, etc. Serial No. 346,350; Feb. 27. Class 49.

Finch, Jos. S., & Company, Schenley, Pa., and New York, N. Y. Whiskey, gin, rum, etc. Serial No. 346,352; Feb. 27. Class 49.

Finch, Jos. S., & Company, Schenley, Pa., and New York, N. Y. Whiskey, gin, rum, etc. Serial No. 346,401; Feb. 27. Class 49.

Finch, Jos. S., & Company, New York, N. Y. Whiskey, etc. Serial No. 346,349; Feb. 27. Class 49.

Finch, Jos. S., & Company, New York, N. Y. Whiskey, etc. Serial No. 346,351; Feb. 27. Class 49.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Finch, Jos. S., & Company, New York, N. Y. Whiskey, etc. Serial Nos. 346,353–4; Feb. 27. Class 49.
Finch, Jos. S., & Company, New York, N. Y. Whiskey, brandy, rum, etc. Serial No. 346,402; Feb. 27. Class 49.
Five Star Javelle Water Company, The. (See Esposito, Anthony.)
Frankfort Distilleries, Incorporated, Louisville, Ky. Whiskey. Serial No. 344,530; Feb. 27. Class 49.
Frankort Distilleries, Incorporated, Louisville, Ky. Whiskey. Serial No. 346,239; Feb. 27. Class 49.
Freeman Laboratories, Inc., Detroit, Mich. Herb tea. Serial No. 345,335; Feb. 27. Class 46.
Friedman, Keller & Company, Incorporated, Paducah, Ky. Whiskies. Serial No. 345,013; Feb. 27. Class 49.
Friedman, Keller & Company, Incorporated, Paducah, Ky. Whiskies. Serial No. 345,017; Feb. 27. Class 49.
Frigidaire Corporation. (See Meterice of America Co., Ltd., assignor.)
General Household Utilities Company, Chicago, Ill. Radio receivers and radio sound reproducers and parts thereof, and radio tubes. Serial No. 343,861; Feb. 27. Class 21.
General Paper Company, San Francisco, Calif. Paper. Serial No. 345,664; Feb. 27. Class 37.
Gerstley, Isaac, doing business as Rosskam, Gerstley & Co., Philadelphia, Pa. Whiskey and/or other potable distilled spirits. Serial No. 345,885; Feb. 27. Class 49.
Glendenning, W., and Sons, Limited, Newcastle-on-Tyne, England. Medicated wines. Serial No. 345,019; Feb. 27. Class 6.
Golf Ball, Inc., Chicago, Ill. Golf balls. Serial No. 340,834; Feb. 27. Class 22.
Gordon, Leonard, Importation Co., Inc., New York, N. Y. Whiskey and gin. Serial No. 346,036; Feb. 27. Class 49.
Goudey Gum Co., The, Boston, Mass. Chewing gum. Serial No. 333,066; Feb. 27. Class 46.
Goudey Gum Company, The, Allston Station, Boston, Mass. Chewing gum. Serial No. 345,764; Feb. 27. Class 46.
Haag, Alfred, doing business as Jules Adam & Co., Jarnac, France. Brandies and distilled alcoholic liquors. Serial No. 345,668; Feb. 27. Class 49.
Haim, Irving, doing business as The Alliance Company, New York, N. Y. Whiskey. Serial No. 346,161; Feb. 27. Class 49.
Hamilton Brewing Company, The, Hamilton, Ohio. Beer. Serial No. 345,156; Feb. 27. Class 48.
Harris, Esther La Rose, Atlanta, Ga. Books. Serial No. 346,048; Feb. 27. Class 38.
Hartwig Kantorowicz-C. A. F. Kahlbaum Aktiengesellschaft, Berlin-Charlottenburg, Germany. Cordials and brandy. Serial No. 345,104; Feb. 27. Class 49.
Hartwig Kantorowicz Aktiengesellschaft, Berlin-Charlottenburg, Germany. Stomach bitters. Serial No. 345,106; Feb. 27. Class 6.
Hartwig Kantorowicz-C. A. F. Kahlbaum, Aktiengesellschaft, Berlin-Charlottenburg, Germany. Cordials and brandy. Serial No. 345,107; Feb. 27. Class 49.
Harts Mountain Products Inc., New York, N. Y. Cuttle bone for birds. Serial No. 343,650; Feb. 27. Class 1.
Harvey & Otis, Providence, R. I. Jewelry. Serial No. 345,504; Feb. 27. Class 28.
Heller, William, Inc., New York, N. Y. Fabrics in the piece. Serial No. 344,592; Feb. 27. Class 42.
Hercules Powder Company, Wilmington, Del. Dynamite. Serial No. 346,195; Feb. 27. Class 9.
Hood, C. H., & Co., Inc., New York, N. Y. Bulk laxative. Serial No. 344,092; Feb. 27. Class 6.
Horton & Converse, Los Angeles, Calif. Whiskey, brandy, gin. Serial No. 346,050; Feb. 27. Class 49.
Huffman Manufacturing Company, The, Dayton, Ohio. Bicycles and parts therefor. Serial No. 345,159; Feb. 27. Class 19.
I'Nea Products Co., Camden, N. J. Medicinal preparation. Serial No. 345,471; Feb. 27. Class 6.
Interboro Beverage Corporation, Brooklyn, N. Y. Beer and ale. Serial No. 343,655; Feb. 27. Class 48.
International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 345,389; Feb. 27. Class 46.
International Resistance Company, Philadelphia, Pa. Resistors and grid leaks. Serial No. 342,355; Feb. 27. Class 21.
Inter-state Wine & Liquor Co., Baltimore, Md. Whiskey. Serial No. 346,204; Feb. 27. Class 49.
Isaacs, I. C., & Company, Baltimore, Md. Riding breeches, jodhpurs, and riding coats and vests. Serial No. 345,867; Feb. 27. Class 39.
Israly, J. S.—J. Israly, Des Moines, Iowa. Maltless beverage and sirup and extract for making the same. Serial No. 345,627; Feb. 27. Class 45.
Joy Products Company. (See Magee, Mary H.)
Kamulin Drug Company, New York, N. Y. Medicine. Serial No. 345,042; Feb. 27. Class 6.
Kelly, Geo. J., Inc., Lynn, Mass. Colored dressings for shoes, etc. Serial No. 345,506; Feb. 27. Class 4.
Kimball, C. M., Co., Everett, Mass. Automobile polish. Serial No. 345,027; Feb. 27. Class 16.
Knoedler, A., Company, Lancaster, Pa. Hardened plastic composition. Serial No. 343,561; Feb. 27. Class 1.
Kohnstamm, H., & Co., Inc., New York, N. Y. Metal spring pads for laundry purposes. Serial No. 345,204; Feb. 27. Class 24.
Kuppenheimer, B., & Co., Inc., Chicago, Ill. Coats, vests, trousers, and overcoats. Serial No. 345,775; Feb. 27. Class 39.
Landers Corporation, The, Toledo, Ohio. Sheeting chemically treated. Serial No. 345,666; Feb. 27. Class 50.
Lauder, Archibald, & Company, Limited, Glasgow, Scotland. Whisky. Serial No. 345,169; Feb. 27. Class 49.
Lesser, Arthur, New York, N. Y., and Paris, France. Champagne. Serial No. 345,264; Feb. 27. Class 47.
Lev-A-Lift Co. (See Courtney, Nicholas P.)
M. J. B. Co., San Francisco, Calif. Coffee. Serial No. 341,770; Feb. 27. Class 46.
Mackenzie, Joseph A. T., doing business as J. A. T. Mackenzie & Co., London, England, and Glasgow, Scotland. Whisky. Serial No. 344,406; Feb. 27. Class 49.
Magee, Mary H., doing business as Joy Products Company, Flint, Mich. Chemical preparations. Serial No. 342,700; Feb. 27. Class 6.
Maison Andre, Inc., Baltimore, Md. Creams, powders, lip sticks, etc. Serial No. 345,368; Feb. 27. Class 6.
Manhattan Distillers Corp., New York, N. Y. Gin. Serial No. 344,860; Feb. 27. Class 49.
Maryland Distillers Products Corporation, Baltimore, Md. Whiskey. Serial No. 346,122; Feb. 27. Class 49.
May Hosiery Mills, Nashville, Tenn. Children's hosiery. Serial No. 345,605; Feb. 27. Class 39.
McCarthy, Paul F., Paterson, N. J., and New York, N. Y. Publication. Serial No. 345,140; Feb. 27. Class 38.
Merck & Co., Inc., Rahway, N. J. Preparation for making a food beverage. Serial No. 343,835; Feb. 27. Class 46.
Meterice of America, Co., Ltd., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio. Time-regulating electric switches. Serial No. 322,854; Feb. 27. Class 26.
Meukow, A. C., & Co. (See Shepherd, T. D., & Co.)
Meyer & Lange, Inc., New York, N. Y. Gin. Serial No. 346,247; Feb. 27. Class 49.
Michelin & Cie, Clermont-Ferrand, France. Members for connecting wheels to their hubs, sleeves, pivot joints, etc. Serial No. 341,596; Feb. 27. Class 19.
Miller Wholesale Drug Company, Cleveland, Ohio. Adrolsol, analgesic balm, ammonia water, etc. Serial No. 315,059; Feb. 27. Class 6.
Minnesota Macaroni Company, St. Paul, Minn. Alimentary pastes. Serial No. 345,914; Feb. 27. Class 46.
Moorman, C. P., & Company, Louisville, Ky. Whiskey. Serial No. 344,665; Feb. 27. Class 49.
Morin, Pierre L., Brionne, France. Apple brandy. Serial No. 345,552; Feb. 27. Class 49.
Motor Seal Corporation, Denver, Colo. Filler or sealing compound. Serial No. 344,915; Feb. 27. Class 6.
Naamlooze Vennootschap Distilleerderij C. Meyer & Co., Schiedam, Netherlands. Gin, old gin, brandy, etc. Serial Nos. 343,406–7; Feb. 27. Class 49.
Nach, Jess, Newark, N. J. Cosmetics. Serial No. 344,620; Feb. 27. Class 6.
Nashua Manufacturing Company, Nashua, N. H. Blankets. Serial No. 344,916; Feb. 27. Class 42.
National Electric Products Corporation, Pittsburgh, Pa. Outlet boxes and switch boxes for electrical use. Serial No. 345,171; Feb. 27. Class 21.
National Electric Products Corporation, Pittsburgh, Pa. Outlet boxes and switch boxes. Serial No. 345,871; Feb. 27. Class 21.
Newcomer, Victor A., Lincoln, Nebr. Mouth wash and general antiseptic. Serial No. 343,486; Feb. 27. Class 6.
North American Brewing Company, Brooklyn, N. Y. Beer. Serial Nos. 345,836–7; Feb. 27. Class 48.
Orange County Brewery, Inc., Middletown, N. Y. Beer and other malt beverages. Serial No. 344,438; Feb. 27. Class 48.
Pnas Dye Company, Newark, N. J. Dyes. Serial Nos. 344,942–3; Feb. 27. Class 6.
Palo Products Company, Boston, Mass. Grapefruit juice, pineapple juice, and orange juice. Serial Nos. 345,876–7; Feb. 27. Class 45.
Passarelli, Frank, Mispah, N. J. Dolls. Serial No. 345,680; Feb. 27. Class 22.
Pen-Chlor, Inc., Philadelphia, Pa. Construction cements. Serial No. 346,009; Feb. 27. Class 12.
Pepper, Jas. E., & Company, Lexington, Ky., and New York, N. Y. Gin. Serial No. 346,873; Feb. 27. Class 49.
Perey Manufacturing Company, Inc., New York, N. Y. Turnstiles and passage-controlling gates of the rotary type. Serial No. 341,693; Feb. 27. Class 23.
Phenix Furniture Company, Warren, Pa. Chests of drawers. Serial No. 344,234; Feb. 27. Class 32.
Piedmont Cotton Mills, Atlanta, Ga. Crochet yarn. Serial No. 344,409; Feb. 27. Class 43.
Point Loma Tuna Packers, Inc., San Diego, Calif. Canned fish. Serial No. 346,320; Feb. 27. Class 46.
Pumar, Paez, & Comoania, Carcaracas, Venezuela. Rum and other potable distilled liquors. Serial No. 345,508; Feb. 27. Class 49.
R & R Manufacturing Company. (See Roland, Easten U.)

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Rapken & Co. Ltd., San Francisco, Calif. Whiskey. Serial No. 346,251; Feb. 27. Class 49.
Ratliff Pure Food Products Co., doing business as Texas Rio Rita Canning Co., Fort Worth, Tex. Canned goods. Serial No. 343,662; Feb. 27. Class 46.
Readville Distilleries, Inc., Readville, Boston, Mass. Gin and other potable distilled spirits. Serial No. 345,122; Feb. 27. Class 49.
Revolite Corporation, The, New Brunswick, N. J. Flexible resinoid coated or impregnated fabrics. Serial No. 345,919; Feb. 27. Class 50
Richter, Martin L., doing business as Therm-O-Heat Mfg. Co., Seattle, Wash. Oil burners. Serial No. 323,368; Feb. 27. Class 34.
Riegel, Guy E., Spokane, Wash. Beer. Serial No. 346,080; Feb. 27. Class 48.
Rock-Ola Manufacturing Corporation, Chicago, Ill. Amusement device. Serial No. 346,253; Feb. 27. Class 22.
Roland, Esten U., doing business as R & R Manufacturing Company, Shiloh, Ohio. Base metal cooking hollow ware. Serial No. 339,441; Feb. 27. Class 13.
Rosskam, Gerstley & Co. (See Gerstley, Isaac.)
Rubberized Fabrics, Incorporated, Kansas City, Mo. Rubberized fabrics. Serial No. 344,624; Feb. 27. Class 50.
Safan Laboratories Inc., New York, N. Y. Medicinal preparation. Serial No. 343,745; Feb 27. Class 6.
Schenley Products Company, New York, N. Y. Whiskey. Serial No. 346,324; Feb. 27. Class 49.
Schenley Wine & Spirit Import Corporation, New York, N. Y. Brandy, etc. Serial No. 346,436; Feb. 27. Class 49.
Schults, William L., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 345,839; Feb. 27. Class 6.
Scott, Stuart, & Co. (See Stonehill, J., & Company, Limited.)
Shepherd, T. D., & Co., doing business as A. C. Meukow & Co., Cognac, France. Brandy. Serial No. 344,680; Feb. 27. Class 49.
Siceloff, David S., doing business as Siceloff Manufacturing Company, Lexington, N. C. Overalls, work shirts, and pants. Serial No. 345,314; Feb. 27. Class 39.
Silver Dresses, Inc., New York, N. Y. Dresses, suits, coats, hats, etc. Serial No. 342,494; Feb. 27. Class 39.
Smith, J. Hungerford, Co., Rochester, N. Y. Chocolate malted syrups. Serial No. 343,629; Feb. 27. Class 46.
Smith, James A., New York, N. Y. Vegetables. Serial No. 344,065; Feb. 27. Class 46.
Smith, Martin H., Co., New York, N. Y. Preparations for coughs, colds, for the treatment of amenorrhea, etc. Serial No. 345,405; Feb. 27. Class 6.
Società Preparati Casali, Rome, Italy. Preparations used in treatment of diseases of the circulatory system, arteriosclerosis, etc. Serial No. 342,707; Feb. 27. Class 6.
Societe Anonyme les Fils de P. Bardinet, Cauderan, near Bordeaux, France. Rum, cordials, etc. Serial No. 345,639; Feb. 27. Class 49.
Societe Anonyme les Fils de P. Bardinet, Cauderan, near Bordeaux, France. Alcoholic cordials. Serial No. 345,640; Feb. 27. Class 49.
Societe Anonyme les Fils de P. Bardinet, Cauderan, near Bordeaux, France. Rum. Serial No. 345,795; Feb. 27. Class 49.
Societe des Proprietaires Vinicoles de Cognac, J. G. Monnet & Co., Cognac, France. Brandy. Serial Nos. 345,224–5; Feb. 27. Class 49.
Societe des Vins et Spiritueux, Societe Anonyme, Bordeaux, France. Brandy. Serial No. 345,226; Feb. 27. Class 49.
Solar Manufacturing Corporation, New York, N. Y. Electrical apparatus. Serial No. 333,984; Feb. 27. Class 21.
Southwestern Drug Corporation, Waco, Tex. Boric acid, alcohol for rubbing purposes, alum, etc. Serial No. 341,447; Feb. 27. Class 6.
Speidel, L., & Co., Inc., Boston, Mass. Rum, etc. Serial No. 345,966; Feb. 27. Class 49.
Spitzer Bros. Inc., New York, N. Y. Whiskey. Serial No. 346,441; Feb. 27. Class 49.
Spyer Brothers, Amsterdam, Netherlands. Canned fruits, vegetables, and pickles (gherkins). Serial No. 344,950; Feb. 27. Class 46.
Stadlman, Wallace J., doing business as Dal-Worth Oil Products Company, Dallas, Tex. Lubricating oils and upper cylinder lubricants. Serial No. 344,297; Feb. 27. Class 15.
Stallsmith, Welton, Los Angeles, Calif. Desiccated vegetables in tablet form. Serial No. 332,554; Feb. 27. Class 46.
Standard Brands Incorporated, New York, N. Y. Coffee and tea. Serial Nos. 345,227–8; Feb. 27. Class 46.
Standard Liquor Corporation, Chicago, Ill. Whisky. Serial No. 346,021; Feb. 27. Class 49.
Standard Liquor Corporation, Chicago, Ill. Whisky. Serial No. 346,023; Feb. 27. Class 49.
Star Distributors, Inc., New York, N. Y. Blended whiskey. Serial No. 345,568; Feb. 27. Class 49.
Star Roof Corporation, South Gate, Calif. Roll roofing and roofing shingles. Serial No. 346,025; Feb. 27. Class 12.
Stevenson, R., Taylor & Company, Limited, Glasgow, Scotland. Whisky. Serial No. 343,664; Feb. 27. Class 49.
Stix, Baer and Fuller Company, St. Louis, Mo. Davenports, sofas, chests, etc. Serial No. 341,348; Feb. 27. Class 32.
Stock, Lionello, doing business as Camis & Stock, Trieste, Italy. Brandy. Serial Nos. 344,359–60; Feb. 27. Class 49.
Stock, Lionello, doing business as Camis & Stock, Trieste, Italy. Brandy. Serial No. 344,362; Feb. 27. Class 49.
Stonehill, J., & Company, Limited, doing business as Stuart Scott & Co., London, England. Whisky. Serial No. 340,996; Feb. 27. Class 49.
Strong, W. & S., Limited, Dundee, Scotland. Scotch whisky. Serial Nos. 344,412–18; Feb. 27. Class 49.
Takara Laboratories, Portland, Oreg. Antiseptic vaginal suppositories, gargle, etc. Serial No. 344,169; Feb. 27. Class 6.
Texas Company, The, New York, N. Y. Lubricating grease. Serial No. 346,026; Feb. 27. Class 15.
Texis Rio Rita Canning Co. (See Ratliff Pure Food Products Co.)
Therm-O-Heat Mfg. Co. (See Richter, Martin L.)
Thoroughbred Remedy Company, Belmont, Long Island, N. Y. Liniment. Serial No. 344,239; Feb. 27. Class 6.
Tiona Petroleum Company, Philadelphia, Pa. Heavy lubricating oil stock and lubricating oil comprising said stock. Serial No. 339,799; Feb. 27. Class 15.
Tropical Paint and Oil Company, The, Cleveland, Ohio. Transparent liquid coating composition. Serial No. 345,734; Feb. 27. Class 16.
United Liquor Co., Los Angeles, Calif. Gin. Serial No. 346,332; Feb. 27. Class 49.
Uri, Sonia K., Louisville, Ky. Whiskey. Serial Nos. 346,090–1; Feb. 27. Class 49.
Utility Blade Corporation, Maplewood, N. J. Safety razors and safety razor blades. Serial No. 343,481; Feb. 27. Class 23.
Vanity Fair Silk Mills, Reading, Pa. Garment for women. Serial No. 345,439; Feb. 27. Class 39.
Vick Chemical Company, Philadelphia, Pa. Medicinal preparation. Serial No. 346,282; Feb. 27. Class 6.
Vincennes Packing Corporation, Vincennes, Ind. Tomato juice, tomatoes, tomato catsup, pork and beans, etc. Serial No. 340,998; Feb. 27. Class 46.
Virdol Company, The, Birmingham, Ala. Liniment. Serial No. 344,123; Feb. 27. Class 6.
Virginia Smelting Company, West Norfolk, Va. Purified methyl chloride. Serial No. 342,991; Feb. 27. Class 6.
Vollrath Co., The, Sheboygan, Wis. Sheet metal culinary utensils. Serial No. 341,747; Feb. 27. Class 13.
Wagner Brewing Company, Granite City, Ill. Malt beverages. Serial No. 342,680; Feb. 27. Class 48.
Walker, Hiram, & Sons, Inc., Peoria, Ill. Blended whiskey, etc. Serial No. 344,995; Feb. 27. Class 49
Walker, Hiram, & Sons, Inc., Peoria, Ill. Maltless beverages. Serial No. 345,988; Feb. 27. Class 45.
Walter, Geo., Brewing Co., Appleton, Wis. Malt beverages. Serial No. 345,652; Feb. 27. Class 48.
Warren Chemical Company. (See Charron, Alexandre.)
Washington Distillers & Rectifying, Inc., New York, N. Y. Pure rye whiskey. Serial No. 346,221; Feb. 27. Class 49.
Whitehead & Hoag Company, The, Newark, N. J. Jewelry. Serial No. 346,140; Feb. 27. Class 28.
Whitehead Metal Products Company of New York, Inc., New York, N. Y. Hot-water tanks and gas automatic hot-water storage systems. Serial No. 340,853; Feb. 27. Class 34.
Whiteley, W., & Co. Limited, Glasgow, Scotland, and London, England. Whisky. Serial No. 343,757; Feb. 27. Class 49.
Wight, Frank L., Distilling Company, The, Loreley Station, Md. Rye whiskey and blended whiskeys. Serial No. 345,739; Feb. 27. Class 49.
Wight, Frank L. Distilling Company, The, Loreley Station, Md. Rye whiskey and blended whiskeys. Serial No. 345,741; Feb. 27. Class 49.
X-Otic, Incorporated, New York, N. Y. Sanitary belts. Serial No. 340,097; Feb. 27. Class 44.

LIST OF REGISTRANTS OF TRADE-MARKS

Ajax Bottle Cap Corp., Brooklyn, N. Y. Toy scales. 310,444; Feb. 27; Serial No. 343,314; published Dec. 19, 1933. Class 22.

Akron Drug and Sundries Company, Akron, Ohio. Prophylactic rubber goods for the prevention of contagious diseases. 310,424; Feb. 27; Serial No. 342,602; published Dec. 19, 1933. Class 44.

Aladdin Products Corp., Opa Locka, Fla. Moisture absorbent dehydrators for salt, etc. 310,494; Feb. 27; Serial No. 319,433; published Dec. 5, 1933. Class 6.

American Brewery, Incorporated, Baltimore, Md. Malt beverages. 310,548; Feb. 27; Serial No. 343,430; published Dec. 19, 1933. Class 48.

American Curatex Corporation, Quincy, Mass. Compounded latex sold as adhesive. 310,533; Feb. 27; Serial No. 336,169; published Dec. 19, 1933. Class 5.

American Medicinal Spirits Company, The, Louisville, Ky. Whisky. 310,404; Feb. 27; Serial No. 342,832; published Dec. 12, 1933. Class 49.

American Medicinal Spirits Company, The, Louisville, Ky. Whisky. 310,434; Feb. 27; Serial No. 342,723; published Dec. 12, 1933. Class 49.

American Museum of Safety, The, New York, N. Y. Periodical. 97,800; renewed June 23, 1934.

American Oil Company. (See Blaustein, Louis, assignor.)

American Steel Foundries, Chicago, Ill. Metallic castings, forgings, and fabrications. 310,488; Feb. 27; Serial No. 329,487; published Dec. 19, 1933. Class 23.

Anaconda Brewing Co., Anaconda, Mont. Malt beverages. 310,543; Feb. 27; Serial No. 343,111; published Dec. 19, 1933. Class 48.

Anderson, Chris, doing business as Minneapolis Bottling Co., Minneapolis, Minn. Maltless beverages and for carbonated and still table water. 310,534; Feb. 27; Serial No. 343,110; published Dec. 19, 1933. Class 45.

Anglo-American Pharmaceutical Company Ltd., The, Croydon, England, and New York, N. Y., assignor to The Huxley Laboratories, Inc., New York, N. Y. Antiseptic powder. 94,780; renewed Dec. 30, 1933.

Arkell & Smiths, Canajoharie, N. Y. Bags and sacks. 97,200; renewed May 26, 1934.

Arkwright Merchandising Corp., New York, N. Y. Toilet powder, perfume, rouge, etc. 310,475; Feb. 27; Serial No. 334,593; published Mar. 21, 1933. Class 6.

Augstein, S., & Co., New York, N. Y. Dresses, suits, sweaters, blouses. 310,418; Feb. 27; Serial No. 340,824; published Nov. 14, 1933. Class 39.

Baker, Walter, & Company, Inc., New York, N. Y. Chocolate. 310,400; Feb. 27; Serial No. 342,783; published Dec. 19, 1933. Class 46.

Balch, Gerald G., Pittsburgh, Pa. Laxatives. 310,446; Feb. 27; Serial No. 343,382; published Dec. 19, 1933. Class 6.

Barricini Inc., New York, N. Y. Candy. 310,433; Feb. 27; Serial No. 342,726; published Dec. 12, 1933. Class 46.

Barton Salt Company, The, Hutchison, Kans. Salt. 97,668; renewed June 16, 1934.

Barvier, Raymond, assignor, by mesne assignments, to Vita Food Products Incorporated, New York, N. Y. Preserved fish products. 96,389; renewed Apr. 21, 1934.

Baxter, Don, Inc., Glendale, Calif. Astringent, beauty creams, rouges, etc. 310,493; Feb. 27; Serial No. 328,054; published Dec. 19, 1933. Class 6.

Bay State Fishing Company, Boston, Mass. Haddock and cod. 310,572–3; Feb. 27; Serial Nos. 339,176–7; published Dec. 19, 1933. Class 46.

Beckert, Ernst, to Ernst Beckert Nadelfabrik, Kommanditgesellschaft, Chemnitz, Germany, successor. Knitting machine appliances. 42,283; renewed Mar. 22, 1934.

Behr-Manning Corporation, Troy, N. Y. Sandpaper. 310,542; Feb. 27; Serial No. 343,059; published Dec. 19, 1933. Class 4.

Benz, George, Sons, Inc., St. Paul, Minn. Whisky. 310,537; Feb. 27; Serial No. 343,023; published Dec. 19, 1933. Class 49.

Berriman Bros., Inc., Tampa, Fla. Cigars. 310,581; Feb. 27; Serial No. 337,504; published June 13, 1933. Class 17.

Bickford & Sweet, assignor, by mesne assignments, to Wiley-Bickford-Sweet Corporation, Worcester, Mass. Slippers and slipper-soles. 96,563; renewed Apr. 21, 1934.

Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet sweepers. 310,503; Feb. 27; Serial No. 342,151; published Dec. 19, 1933. Class 23.

Blair, The Dr., Medicine Company, by two changes of name to The W. T. Raleigh Company, Freeport, Ill. Salves, liniments, etc. 39,768; renewed Feb. 10, 1933.

Blaustein, Louis, assignor to American Oil Company, Baltimore, Md. Lubricating oils. 97,673; renewed June 16, 1934.

Bohemian Distributing Co. Ltd., Los Angeles, Calif. Gin. 310,565; Feb. 27; Serial No. 342,571; published Dec. 12, 1933. Class 49.

Bohemian Distributing Co. Ltd., Los Angeles, Calif. Whisky. 310,568; Feb. 27; Serial No. 342,573; published Dec. 12, 1933. Class 49.

Bohn Refrigerator Company, St. Paul, Minn. Refrigerators. 310,583; Feb. 27; Serial No. 337,328; published Dec. 19, 1933. Class 31.

Booster Chemical & Engineering Co. (See Windsor-Lloyd Products, Inc.)

Bouquet-Cohn Cigar Co. (See Cohn, Helen A.)

Bowles, Thomas K., Greensboro, N. C. Medicine. 310,477; Feb. 27; Serial No. 334,378; published Dec. 5, 1933. Class 6.

Brown Durrell Co., Boston, Mass. Knit goods and flannelettes. 310,397; Feb. 27; Serial No. 340,213; published Dec. 12, 1933. Class 39.

Brown, L. L., Paper Company, Adams, Mass. Paper. 97,465; renewed June 9, 1934.

Brown, Walter G., doing business as National Research Laboratories, Los Angeles, Calif. Antiseptic preparation. 310,547; Feb. 27; Serial No. 336,925; published Dec. 12, 1933. Class 6.

Bryant Electric Company, The, Bridgeport, Conn. Electric-lamp sockets. 94,879; renewed Jan. 13, 1934.

Buffalo Anthracite Coal Co. Inc., Brooklyn, N. Y. Coke. 310,574; Feb. 27; Serial No. 338,925; published Dec. 19, 1933. Class 1.

Buffalo Springs Distilling Company, Incorporated, Stamping Ground, Ky. Whisky. 310,401; Feb. 27; Serial No. 342,780; published Dec. 12, 1933. Class 49.

Burroughs, Edgar R., Inc., Tarzana, Calif. Gasoline, motor lubricating oils and greases, kerosene. 310,426; Feb. 27; Serial No. 342,638; published Dec. 12, 1933. Class 15.

Burroughs, Edgar Rice, Inc., Tarzana, Calif. Trunks, suitcases, purses, etc. 310,427; Feb. 27; Serial No. 342,636; published Dec. 19, 1933. Class 3.

California Prune & Apricot Growers Association, San Jose, Calif. Dried fruits. 310,588; Feb. 27. Class 46.

Cambridge Laboratories, The. (See Rasmus, Marion.)

Cameron and Company, Incorporated, Napa, Calif. Shirts. 310,403; Feb. 27; Serial No. 342,790; published Dec. 19, 1933. Class 39.

Chatham Cosmetics & Drugs, Incorporated, New York, N. Y. Bay rum and antiseptic mouth wash. 310,580; Feb. 27; Serial No. 337,417; published Dec. 12, 1933. Class 6.

Chemical Foundation, Incorporated, The. (See Farbwerke, vormals Meister Lucius & Brüning, assignor.)

Chemical Foundation, Incorporated, The. (See Kalle & Co., Aktiengesellschaft, assignor.)

Chemical Foundation, Incorporated, The. (See Neumann, Dr., & Co. Chemische Fabrik, G. m. b. H., assignor.)

Chemical Foundation, Incorporated, The. (See Ziffer, Charles, assignor.)

Chrysler Corporation, Highland Park, Mich. Automobile bodies and their structural parts. 310,441; Feb. 27; Serial No. 343,388; published Dec. 19, 1933. Class 19.

Chrysler Corporation, Highland Park, Mich. Automobile bodies and their structural parts. 310,443; Feb. 27; Serial No. 343,387; published Dec. 19, 1933. Class 19.

Clark, Augustus B., doing business as The T. O. S. Distilling Company, Baltimore, Md. Rye whisky. 310,504; Feb 27; Serial No. 342,065; published Dec. 12, 1933. Class 49.

Clayton Bros. Inc., to The Clayton Manufacturing Co., Bristol, Conn., successor. Scissors and shears. 98,129; renewed July 7, 1934.

Club Razor and Blade Mfg. Corp., Newark, N. J. Razor blades. 310,399; Feb. 27; Serial No. 340,382; published Dec. 19, 1933. Class 23.

Coes & Young Co., Boston, Mass. Boots, shoes, and slippers. 97,041; renewed May 19, 1934.

Cohn, Helen A., doing business as Bouquet-Cohn Cigar Co., San Francisco, Calif. Smoking tobacco. 310,495; Feb. 27; Serial No. 327,679; published Dec. 19, 1933. Class 17.

Collins Company, The, Collinsville, Conn. Cutlery and tools. 97,825; renewed June 23, 1934.

Consolidated Distilleries, Limited, Montreal, Quebec, Canada. Whisky and other potable distilled liquors. 310,432; Feb. 27; Serial No. 342,734; published Dec. 12, 1933. Class 49.

Consolidated Distilleries, Limited, Montreal, Quebec, Canada. Whisky, etc. 310,436; Feb. 27; Serial No. 242,738; published Dec. 12, 1933. Class 49.

Consolidated Distilleries, Limited, Montreal, Quebec, Canada. Whisky and other potable distilled liquors. 310,437; Feb. 27; Serial No. 342,736; published Dec. 12, 1933. Class 49.

Consolidated Guardian Chemical Company, Phoenix, Ariz. Preparation for the treatment of athlete's foot. 310,578; Feb. 27; Serial No. 338,183; published Dec. 12, 1933. Class 6.

Continental Automobile Company, Grand Rapids and Detroit, Mich. Automobile and structural parts thereof. 310,476; Feb. 27; Serial No. 334,029; published Oct. 24, 1933. Class 19.

Correcto Products, Inc., Akron, Ohio. Beverage-forming herbal preparations or medicinal teas. 310,507; Feb. 27; Serial No. 342,068; published Dec. 12, 1933. Class 6.

Cortland Line Company, Incorporated, Cortland, N. Y. Fish lines. 310,550; Feb. 27; Serial No. 343,488; published Dec. 19, 1933. Class 22.

Crane Honey Incorporated, Washington, D. C. Honey food spread. 310,428; Feb. 27; Serial No. 342,688; published Dec. 19, 1933. Class 46.

Crawford, McGregor and Canby Company, The, Dayton, Ohio. Golf clubs. 310,551; Feb. 27; Serial No. 343,494; published Dec. 19, 1933. Class 22.

Culver, Fred R., doing business as Niagara Remedies, Niagara Falls, N. Y. Medicinal preparation. 310,526; Feb. 27; Serial No. 342,177; published Dec. 5, 1933. Class 6.

Darsky, N. H., doing business as Golden Age Beverage Co., Youngstown, Ohio. Malt beverages. 310,451; Feb. 27; Serial No. 343,272; published Dec. 19, 1933. Class 48.

Davis Milling Company, The, St. Joseph, Mo., assignor, by mesne assignments, to The Quaker Oats Company, Chicago, Ill. Wheat flour. 95,705; renewed Mar. 3, 1934.

Dee-Duct-Teen Co. (See Wilkinson, Albert N.)

Del Sur Canning Co., Ltd., San Francisco, Calif. Canned vegetables. 310,485; Feb. 27; Serial No. 331,145; published Dec. 12, 1933. Class 46.

Distillers Distributing Corporation, San Francisco, Calif. Whisky. 310,429; Feb. 27; Serial No. 342,691; published Dec. 12, 1933. Class 49.

Drexell Products Corp., Brooklyn, N. Y. Shampoo, foundation and cleansing cream, perfume, etc. 310,514; Feb. 27; Serial No. 341,944; published Dec. 19, 1933. Class 6.

Drury, Abner, Brewery Inc., Washington, D. C. Beer. 310,440; Feb. 27; Serial No. 343,428; published Dec. 19, 1933. Class 48.

Dunlop Milling Company, The, Clarksville, assignor to Dunlop Milling Company, Inc., New York, N. Y. Wheat flour. 94 891; renewed Jan. 13, 1934.

Eggonite Products Company, Portland, Oreg. Crushed limestock for poultry and stock. 310,571; Feb. 27; Serial No. 340,037; published Dec. 12, 1933. Class 6.

Ehlers, William, doing business as Schrader & Ehlers, New York, N. Y. Combs. 310,601; Feb. 27. Class 40.

Elferman & Frank, Philadelphia, Pa. Overcoats and suits. 310,603; Feb. 27. Class 39.

Elsenmayer Milling Company, Springfield, Mo. Wheat flour. 97,046; renewed May 19, 1934.

Eskimo Pie Corporation, New York and Brooklyn, N. Y. Frozen confections. 310,402; Feb. 27; Serial No. 342,795; published Dec. 19, 1933. Class 46.

Essenes Laboratories. (See Sugarman, Jacob.)

Etablissements Aera, Paris, France. Meteorological covers, accelerometers, altimeters, etc. 310,497; Feb. 27; Serial No. 312,079; published Nov. 22, 1932. Class 26.

Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the-Main, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Preparation for reducing inflammation of the skin and promoting granulations. 94,819; renewed Jan. 6, 1934.

Farbwerke vorm. Meister Lucius Brüning, Hochst-on-the-Main, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Antiseptic chemical preservative, sanitary paints or dressing for certain materials. 94,820; renewed Jan. 6, 1934.

Farbwerke, vormals Meister Lucius & Brüning, Hochst-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Dyes. 41,857; renewed Jan. 12, 1934.

Farnsworth, Daniel W., Montclair, N. J., and New York, N. Y. Flannel and woolen piece goods. 94,725; renewed Dec. 30, 1933.

Farnum, Adeline R., doing business as Farnum Estate, San Francisco, Calif. Nasal and throat medicines. 310,464; Feb. 27; Serial No. 341,760; published Dec. 5, 1933. Class 6.

Fashion Park Associates, Inc., Rochester, N. Y., assignor to Fashion Park Manufacturing Corporation. Coats, vests, pants, etc. 310,593; Feb. 27. Class 39.

Felten & Guilleaume Carlswerk Actien-Gesellschft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Wire strings for musical instruments. 94,807; renewed Jan. 6, 1934.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Articles composed of certain substances. 94,803–9; renewed Jan. 6, 1934.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Vegetable substances. 95,085; renewed Feb. 3, 1934.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Wire strings for musical instruments. 95,086; renewed Feb. 3, 1934.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Cordage. 95,251; renewed Feb. 3, 1934.

Felten & Guilleaume Carlswerk Actien-Gesellschaft, Mulheim-on-the-Rhine, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Wire goods, plumbing supplies, etc. 95,898; renewed Mar. 24, 1934.

Ferber, Arthur H., doing business as The Ferbo Company, Bayonne, N. J. Flavoring agent. 310,570; Feb. 27; Serial No. 339,934; published Dec. 12, 1933. Class 46.

Ferbo Company, The. (See Ferber, Arthur H.)

Finch, Jos. S., & Company, New York, N. Y. Whisky, brandy, gin, etc. 310,567; Feb. 27; Serial No. 342,582; published Nov. 28, 1933. Class 49.

Finch, Jos. S., & Company, Schenley, Pa., and New York, N. Y. Whiskey, etc. 310,597; Feb. 27. Class 49.

Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Wheat flour. 310,456; Feb. 27; Serial No. 343,169; published Dec. 19, 1933. Class 46.

Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Wheat flour. 310,457; Feb. 27; Serial No. 343,167; published Dec. 19, 1933. Class 46.

Folmer-Electracide Corporation, Rochester, N. Y. Electrical fixtures. 310,408; Feb. 27; Serial No. 342,944; published Dec. 12, 1933. Class 21.

Foster Bros. & Chatillon Co., Fulton, N. Y. Meat tenderers, butcher knives, and cleavers. 310,585; Feb. 27; Serial No. 337,181; published Dec. 19, 1933. Class 23.

Foust Distilling Company, Inc., Glen Rock, Pa. Whisky, brandy, gin, and rum. 310,510; Feb. 27; Serial No. 341,956; published Dec. 12, 1933. Class 49.

Friedman-Lemler Company, The, Baltimore, Md. Whisky. 310,459; Feb. 27; Serial No. 343,206; published Dec. 19, 1933. Class 49.

Frozen Confections, Inc., New York, N. Y. Frozen confections and ice-cream confection on sticks. 310,480; Feb. 27; Serial No. 332,117; published Dec. 19, 1933. Class 46.

Galbani, Egidio, Milan, Italy. Cream, butter, and cheese. 310,598; Feb. 27. Class 46.

Galena-Signal Oil Company, Franklin, Pa., assignor, by mesne assignments, to Valvoline Oil Company, Edgewater, N. J., and New York, N. Y. Lubricating and illuminating oil. 97,326; renewed June 2, 1934.

Galesburg, Coulter-Disc Co., Galesburg, by change of name to Ingersoll Steel and Disc Co., Chicago, Ill. Certain parts for certain agricultural implements. 96,269; renewed Apr. 14, 1934.

Gallagher & Burton, Inc., Philadelphia, Pa. Whisky. 310,520; Feb. 27; Serial No. 342,221; published Dec. 12, 1933. Class 49.

Gautier, Guy, doing business as Guy Gautier & Company, Cognac, France. Brandy. 310,406; Feb. 27; Serial No. 342,903; published Dec. 12, 1933. Class 49.

Gemloid Corporation, New York, N. Y. Sheets of laminated acetate and pyroxyline plastic formed as one product. 310,587; Feb. 27. Class 1.

General Importing Company, Middletown, Conn. Macaroni. 310,409; Feb. 27; Serial No. 342,904; published Dec. 19, 1933. Class 46.

General Mills, Inc., Minneapolis, Minn. Cereal products. 310,395; Feb. 27; Serial No. 342,376; published Dec. 12, 1933. Class 46.

General Seafoods Corporation, Boston, Mass. Fillets of fresh fish. 310,501; Feb. 27; Serial No. 342,128; published Dec. 12, 1933. Class 46.

Gettelman, A., Brewing Company, Milwaukee, Wis. Malt beverages. 310,398; Feb. 27; Serial No. 340,442; published Dec. 19, 1933. Class 48.

Golden Age Beverage Co. (See Darsky, M. H.)

Grant, J. H. R., New York, N. Y. Whisky, brandy, rum, liqueur or cordial, gin. 310,394; Feb. 27; Serial No. 342,393; published Dec. 12, 1933. Class 49.

Grant, W. T., Company, New York, N. Y. Liquid radiator stop leak. 310,511; Feb. 27; Serial No. 341,958; published Dec. 12, 1933. Class 6.

Grant, W. T., Company, New York, N. Y. Hosiery. 310,544; Feb. 27; Serial No. 343,119; published Dec. 12, 1933. Class 39.

Hagler, Sam, doing business as Kuresema Chemical Co., New York, N. Y. Hair tonic, bay rum, mineral oil, etc. 310,579; Feb. 27; Serial No. 338,187; published Dec. 12, 1933. Class 6.

Haines Hosiery Mills Co., Winston-Salem, N. C. Hosiery. 310,596; Feb. 27. Class 39.

Halfhill Company, Ltd., The, Los Angeles, Calif. Canned fish. 310,602; Feb. 27. Class 46.

Hammond Paint & Chemical Co., Inc., The, Beacon, N. Y. Insecticides. 310,605; Feb. 27. Class 6.

Harshaw Chemical Company, The, Elyria, Ohio. Chemical driers. 310,506; Feb. 27; Serial No. 342,074; published Dec. 5, 1933. Class 6.

Hartstein, Iersel, Houston, Tex. Liniments. 310,509; Feb. 27; Serial No. 342,007; published Dec. 12, 1933. Class 6.

Harvest Products Co. (See Hilmer Commission Co.)

Hawaiian Avocado Co. Ltd., Honolulu, Hawaii. Sandwich spread and salad dressing. 310,458; Feb. 27; Serial No. 343,208; published Dec. 19, 1933. Class 46.

Hi-Hat. (See Wilkin, William J.)

Hilmer Commission Co., doing business as Harvest Products Co., St. Louis, Mo. Malt extract and canned sardines. 310,470; Feb. 27; Serial No. 334,918; published Dec. 19, 1933. Class 46.

Hinde & Dauch Paper Company, The, Sandusky, Ohio. Packing boxes and folders. 310,422; Feb. 27; Serial No. 341,185; published Dec. 19, 1933.

Hinds, A. S., Co., Bloomfield, N. J. Creams, emulsions, and liquid lotions. 310,545; Feb. 27; Serial No. 343,120; published Dec. 19, 1933. Class 6.

Hirschman, Al. B., doing business as Hirschman Laboratories, San Pedro, Calif. Preparation for headache, neuralgia, etc. 310,463; Feb. 27; Serial No. 341,883; published Dec. 19, 1933. Class 6.

Holman, John H., Knoxville, Tenn. Foot powder. 310,462; Feb. 27; Serial No. 341,836; published Dec. 5, 1933. Class 6.

Home-Electrical Specialties Corp., Cleveland, Ohio. Electrically illuminated house numbers, name plates, and advertising signs. 310,479; Feb. 27; Serial No. 333,555; published Dec. 12, 1933. Class 21.

Honeycombe & Son, Madison, Wis. Musical instruments, repairs, and supplies. 310,469; Feb. 27; Serial No. 341,922; published Dec. 12, 1933. Class 36.

Hopkins, Ford, Co., doing business as North American Pharmacal Co., Chicago, Ill. Tonic preparation. 310,582; Feb. 27; Serial No. 337,253; published June 6, 1933. Class 6.

Huxley Laboratories, Inc., The. (See Anglo-American Pharmaceutical Company Ltd., assignor.)

Hydraulic Press Manufacturing Company, The, Mount Gilead, Ohio. Mechanical fruit juices. 310,414; Feb. 27; Serial No. 340,616; published Dec. 19, 1933. Class 23.

Illinois Brass Manufacturing Co., Chicago, Ill. Beverage cooling and dispensing apparatus. 310,421; Feb. 27; Serial No. 340 877; published Dec. 19, 1933. Class 31.

Ingersoll Steel and Disc Co. (See Galesburg Coulter-Disc Co.)

Israel, Joshua, Ventnor City, N. J. Coffee concentrate. 310,575; Feb. 27; Serial No. 339,075; published Dec. 19, 1933. Class 46.

Jaburg Brothers, Inc., New York, N. Y. Carts, trucks, trailers, wheel barrows. 310 450; Feb. 27; Serial No. 343,287; published Dec. 19, 1933. Class 19.

Johnson & Johnson, New Brunswick, N. J. First-aid cases. 97 057; renewed June 30, 1934.

Johnson & Johnson, New Brunswick, N. J. Medicinal plasters, digestive tablets, fumigators, etc. 97,478; renewed June 9, 1934.

Johnson & Johnson, New Brunswick, N. J. Denture brushes. 310,396; Feb. 27; Serial No. 342,395; published Dec. 19, 1933. Class 29.

Johnson & Johnson, New Brunswick, N. J. Adhesive denture powder. 310,478; Feb. 27; Serial No. 333,157; published Feb. 21, 1933. Class 6.

Juillard, Incorporated, San Francisco, Calif. Whisky. 310,554; Feb. 27; Serial No. 342,435; published Dec. 12, 1933. Class 49.

Kabushiki Kaisha Kotobukiya, Osaka, Japan. Tea, coffee, pepper, and currie powder. 310,408; Feb. 27; Serial No. 340,122; published Dec. 19, 1933. Class 46.

Kale & Co., Aktiengesellschaft, Biebrich-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Compounds used as disinfectants. 94,997; renewed Jan. 20, 1934.

Kansas City Wholesale Grocery Company, Kansas City, Mo. Foods. 97,058; renewed May 19, 1934.

Kellogg Toasted Corn Flake Company, assignor to Kellogg Company, Battle Creek, Mich. Packages, containers, and wrappers for protecting foods. 97,321; renewed June 2, 1934.

Kiss-O-Love Perfumers. (See Plough, Inc.)

Kleenmor Mfg. Co., Auburn, Maine. Cleaning compound. 310,589; Feb. 27. Class 4.

Knothe Brothers Co., Inc., Baltimore, Md., and New York, N. Y. Pajamas, shirts, and underwear. 310,560; Feb. 27; Serial No. 342,538; published Dec. 5, 1933. Class 39.

Knothe Brothers Co. Inc., Baltimore, Md., and New York, N. Y. Pajamas, shirts, nightshirts, and underwear. 310,561; Feb. 27; Serial No. 342,537; published Dec. 19, 1933. Class 29.

Knothe Brothers Co., Inc., Baltimore, Md., and New York, N. Y. Pajamas, shirts, and underwear. 310,564; Feb. 27; Serial No. 342,539; published Dec. 5, 1933. Class 39.

Kraus, Herman, New York, N. Y. Whiskey. 310,521; Feb. 27; Serial No. 342,354; published Dec. 19, 1933. Class 49.

Kress & Owen Company, New York, N. Y. Nasal douche. 96,425; renewed Apr. 21, 1934.

Kuppenheimer & Company, assignor to B. Kuppenheimer & Co., Inc., Chicago, Ill. Overcoats, coats, vests, and trousers. 95,919; renewed Mar. 24, 1934.

Kuresema Chemical Co. (See Hagler, Sam.)

Laird & Company, Scobeyville and Eatontown, N. J. Brandy. 310,540; Feb. 27; Serial No. 343,076; published Dec. 12, 1933. Class 49.

Lambert, Marion, Inc., St. Louis, Mo. Finger-nail polish and remover and hand lotion. 310,519; Feb. 27; Serial No. 342,224; published Dec. 12, 1933. Class 6.

Les Parfums Marly, Inc., New York, N. Y. Powder and perfumes. 310,453; Feb. 27; Serial No. 343,290; published Dec. 19, 1932. Class 6.

Lilienthal, Benjamin P., San Francisco, Calif. Gin. 310,523; Feb. 27; Serial No. 342,280; published Dec. 19, 1933. Class 49.

Lind, William, doing business as William Lind Co., New York, N. Y. Nainsook and cotton piece goods. 310,417; Feb. 27; Serial No. 340,650; published Dec. 12, 1933. Class 42.

Lind, William, doing business as William Lind Co., New York, N. Y. Cotton piece goods. 310,536; Feb. 27; Serial No. 336,535; published Dec. 5, 1933. Class 42.

Lind, William, doing business as William Lind Co., New York, N. Y. Cotton piece goods. 310,549; Feb. 27; Serial No. 336,536; published Dec. 5, 1933. Class 42.

Loft, Inc., Long Island City, N. Y. Cake. 310,452; Feb. 27; Serial No. 343,291; published Dec. 19, 1933. Class 46.

Loose-Wiles Biscuit Company, Kansas City, Mo. Popcorn and candies. 94,918; renewed Jan. 13, 1934.

Loose-Wiles Biscuit Company, Boston, Mass. Biscuits, cakes, and cookies. 95,449; renewed Feb. 17, 1934.

Low, Robertson & Co. Limited, Leith, Scotland. Scotch whisky. 310,538; Feb. 27; Serial No. 343,082; published Dec. 19, 1933. Class 49.

Lubri-Graph Corporation, The, Cleveland and Wickliffe, Ohio. Gasoline. 310,486; Feb. 27; Serial No. 330,303; published Apr. 18, 1933. Class 15.

Lynch, Buford A., jr., Washington, D. C. Playing cards. 310,472–3; Feb. 27; Serial Nos. 334,712–13; published Dec. 19, 1933. Class 22.

M. & N. Cigar Manufacturers, Inc., Cleveland, Ohio. Cigars. 310,445; Feb. 27; Serial No. 343,358; published Dec. 19, 1933. Class 17.

Manifold Devices & Systems Corp., Hoboken, N. J. Manifolding attachment for typewriting machines. 310,439; Feb. 27; Serial No. 342,760; published Dec. 19, 1933. Class 23.

Manikin Products, Inc., New York, N. Y. Face powder, rouge, lip stick, etc. 310,524; Feb. 27; Serial No. 342,282; published Dec. 5, 1933. Class 6.

Manischewitz, B., Co., The, Jersey City, N. J., and Cincinnati, Ohio. Crackers. 310,407; Feb. 27; Serial No. 342,861; published Dec. 19, 1933. Class 46.

Marks, Maurice, New York, N. Y. Shampoos and hair tonics. 310,531; Feb. 27; Serial No. 336,012; published Dec. 19, 1933. Class 6.

Markstein, Bernard M., doing business as Ohio Brokerage Company, Cincinnati, Ohio. Whisky and/or other potable distilled spirits. 310,508; Feb. 27; Serial No. 342,010; published Dec. 12, 1933. Class 49.

McLellan, Alden, 3d, doing business as Meridian Knitting Mills, Meridian, Miss. Hosiery. 310,606; Feb. 27. Class 39.

McCormick, John, to Frank E. McCormick, New York, N. Y., successor. Citrus fruits. 97,156; renewed May 19, 1934.

McFadden, Charles, doing business as Dr. H. Vickrey Remedy Co., Chicago, Ill. Salves, liniments, and medicinal preparations. 310,483; Feb. 27; Serial No. 331,527; published Jan. 3, 1933. Class 6.

Meridian Knitting Mills. (See McLellan, Alden.)

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Medicinal preparation. 310,516; Feb. 27; Serial No. 342,307; published Dec. 5, 1933. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Antiseptic and germicidal product. 310,525; Feb. 27; Serial No. 342,195; published Dec. 5, 1933. Class 6.

Michelsen, H., Co. Ltd., The, New York, N. Y. Bay rum. 310,419; Feb. 27; Serial No. 340,803; published Dec. 12, 1933. Class 6.

Minneapolis Bottling Co. (See Anderson, Chris.)

Molding Corporation of America, Inc., Providence, R. I. Jewelry and ornamental novelties. 310,411; Feb. 27; Serial No. 342,950; published Dec. 12, 1933. Class 28.

Monica, Joseph D., Brooklyn, N. Y. Distilled alcohol cordials. 310,438; Feb. 27; Serial No. 342,761; published Dec. 19, 1933. Class 49.

Montana Aktiengesellschaft, Strehla, Germany. Disinfectants. 310,469; Feb. 27; Serial No. 341,373; published Dec. 12, 1933. Class 6.

National Research Laboratories. (See Brown, Walter G.)

Neisner Brothers, Inc., Rochester, N. Y. Rubber water bottles, rubber fountain syringes, and combination bottle and syringe. 310,586; Feb. 27. Class 44.

Nestle-Lemur Company, The, New York, N. Y. Toilet preparations. 310,600; Feb. 27. Class 6.

Neumann, Dr., & Co., Chemische Fabrik G. m. b. H., Charlottenburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Medicinal nerve-sedative preparations. 95,007; renewed Jan. 20, 1934.

New York Boat Oar Company, East Orange, N. J., and New York, N. Y., to New York Boat Oar Co., Inc., New York, N. Y., successor. Oars, sweeps, and sculls. 94,393; renewed Dec. 2, 1933.

Niagara Remedies. (See Culver, Fred R.)

Nirenberg & Salzman, Inc., New York, N. Y. Shirts and athletic goods. 310,595; Feb. 27. Class 39.

North American Pharmacal Co. (See Hopkins, Ford, Co.)

Ohio Brokerage Company. (See Markstein, Bernard M.)

Oushimo, Daizo, Asagun, Gion, Hiroshima, Japan. Insecticide. 310,474; Feb. 27; Serial No. 334,496; published Dec. 5, 1933. Class 6.

Parsons & Baker Co., The, Phoenixville, Pa. Ladies' knit underwear. 97,883; renewed June 23, 1934.

Pecan Krisp Company, Inc., Dallas, Tex. Ice-cream bars. 310,590; Feb. 27. Class 46.

Pennsylvania Sugar Company, Philadelphia, Pa. Sugar. 97,780; renewed June 16, 1934.

Petersen, William F., Chicago, Ill. Tank. 310,471; Feb. 27; Serial No. 335,832; published June 13, 1933. Class 23.

Pilsen Breweries Co. Ltd. (See Pilsner Actien-Brauereien.)

Pilsner Actien-Brauereien, doing business as Pilsner Breweries Co. Ltd., Pilsen, Czechoslovakia. Beer. 310,522; Feb. 27; Serial No. 342,286; published Dec. 19, 1933. Class 48.

Pincus Bros., Inc., Philadelphia, Pa. Suits and overcoats. 310,435; Feb. 27; Serial No. 342,716; published Dec. 12, 1933. Class 39.

Plant Foods, Inc., Blue Point, N. Y. Insecticide. 310,425; Feb. 27; Serial No. 341,839; published Dec. 12, 1933. Class 6.

Plant Foods, Inc., Blue Point, N. Y. Insecticide. 310,468; Feb. 27; Serial No. 341,340; published Dec. 12, 1933. Class 6.

Plough, Inc., doing business as Kiss-O-Love Perfumers, Memphis, Tenn. Toilet and medicinal preparations. 310,484; Feb. 27; Serial No. 331,007; published Nov. 29, 1932. Class 6.

Postum Cereal Company, Limited, Battle Creek, Mich., assignor, by mesne assignments, to Postum Company, Inc., New York, N. Y. Flavoring material for foods. 94,933; renewed Jan. 13, 1934.

Postum Cereal Co., Limited, Battle Creek, Mich., assignor, by mesne assignments, to Postum Company, Inc., New York, N. Y. Flavoring extract. 95,847; renewed Feb. 10, 1934.

Powell, Henry W., doing business as Southern Peanut Products Company, Charlotte, N. C. Peanuts. 310,482; Feb. 27; Serial No. 331,196; published Dec. 12, 1933. Class 46.

Quaker Oats Company, The. (See Davis Milling Company, The, assignor.)

Rainbow Hosiery, Inc., Rochester, N. Y. Hosiery. 310,449; Feb. 27; Serial No. 343,223; published Dec. 19, 1933. Class 39.

Raleigh, W. T., Company, The. (See Blair, Dr., Medicine Company.)

Ramey, L. I., Danville, Va. Fertilizers. 310,489; Feb. 27; Serial No. 330,021; published Dec. 19, 1933. Class 10.

Rasmus, Marion, doing business as The Cambridge Laboratories, Eggertsville, N. Y. Cosmetic preparation. 310,556; Feb. 27; Serial No. 342,452; published Dec. 12, 1933. Class 6.

Rasmus, Marion, doing business as The Cambridge Laboratories, Eggertsville, N. Y. Cathartic medicines. 310,557; Feb. 27; Serial No. 342,451; published Dec. 1933. Class 6.

Revere Knitting Mills, Inc., Malden, Mass. Sweaters, ski suits, sweater suits, and windbreakers. 310,541; Feb. 27; Serial No. 343,043; published Dec. 12, 1933. Class 39.

Rheinische Gummi- und Celluloid-Fabrik, Mannheim, Germany. Combs. 310,591; Feb. 27. Class 40.

Robertshaw Thermostat Company, Youngwood, Pa. Thermostats, thermostatic valves, and thermostatic regulators. 310, 502; Feb. 27; Serial No. 342,015; published Dec. 19, 1933. Class 26.

Ross, Sydney, Co., The, New York, N. Y., to The Sydney Ross Co., Newark, N. J. Remedies for bowel and liver diseases. 97,505; renewed June 9, 1934.

Rossie Velvet Company, Mystic, Conn. Pile fabrics. 310,448; Feb. 27; Serial No. 343,225; published Dec. 12, 1933. Class 42.

Ruppert, Jacob, New York, N. Y. Malt beverages. 310,576; Feb. 27; Serial No. 338,827; published Dec. 19, 1933. Class 48.

Sacks, I., & Sons, New York, N. Y. Piece goods. 310,592; Feb. 27. Class 42.

Sandoz Chemical Works, Inc., New York, N. Y. Sedative. 310,512; Feb. 27; Serial No. 341,986; published Dec. 12, 1933. Class 6.

"Sanitas" Co. (U. S. A.), as assignee of The "Sanitas" Company, Limited, London, England, and New York, N. Y., assignor, by mesne assignments, to The "Sanitas" Company, Limited, London, England. Soap and soap powder. 96,051; renewed Mar. 31, 1934.

Schafran & Finkel, New York, N. Y. Sheets and pillowcases. 310,584; Feb. 27; Serial No. 336,996; published Dec. 12, 1933. Class 42.

Schenley Wine & Spirit Import Corporation, New York, N. Y. Sherry and port. 310,599; Feb. 27. Class 47.

Schering Corporation, New York, N. Y. Medicinal preparation. 310,527; Feb. 27; Serial No. 342,166; published Dec. 5, 1933. Class 6.

Schneider, Lou, Inc., New York, N. Y. Coats. 310,423; Feb. 27; Serial No. 341,186; published Dec. 12, 1933. Class 39.

Schneider, Lou, Inc., New York, N. Y. Coats. 310,530; Feb. 27; Serial No. 342,200; published Dec. 12, 1933. Class 39.

Schrader & Ehlers. (See Ehlers, William.)

Schrader's, A., Son, Incorporated, New York, N. Y. Fluid-pressure gages and indicators. 97,788; renewed June 16, 1934.

Schweitzer, Peter J., Inc., Elizabeth, N. J. Cigarette paper. 310,447; Feb. 27; Serial No. 343,370; published Dec. 19, 1933. Class 8.

Scialytic Corporation of America, Philadelphia, Pa. Surgical operating lamps and reflectors. 310,532; Feb. 27; Serial No. 336,140; published June 6, 1933. Class 44.

Seamless Rubber Company, The, assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Rubber gloves and mittens. 97,279; renewed May 26, 1934.

Sears, Roebuck and Co., Chicago, Ill. Overalls. 310,405; Feb. 27; Serial No. 342,817; published Dec. 12, 1933. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Wrenches, augers, butcher knives, etc. 310,535; Feb. 27; Serial No. 336,301; published Aug. 8, 1933. Class 23.

Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Rubber cement. 310,499; Feb. 27; Serial No. 340,176; published Dec. 12, 1933. Class 5.

Sheinker, W., & Son, Inc., New York, N. Y. Whisky, gin, distilled alcoholic cordials, etc. 310,546; Feb. 27; Serial No. 336,665; published Dec. 12, 1933. Class 49.

Shelby Printing Company, The, by change of name to The Shelby Salesbook Company, Shelby, Ohio. Sales-books. 96,568; renewed Feb. 24, 1934.

Simon Mattress Manufacturing Company, The, San Francisco, Calif. Pillows and mattresses. 310,559; Feb. 27; Serial No. 342,458; published Dec. 19, 1933. Class 32.

Southern Peanuts Products Company. (See Powell, Henry W.)

Specialty Guild, Inc., The, Boston, Mass. Chemical photoprint conditioner. 310,594; Feb. 27. Class 6.

Stagg, Geo. T., Co., The, Frankfort, Ky. Whisky, brandy, gin, and other potable distilled spirits. 310,454–5; Feb. 27; Serial Nos. 343,140–41; published Dec. 12, 1933. Class 49.

Standard, Incorporated, The, Chicago, Ill. Canned shellfish, fruits, vegetables, molasses, etc. 310,604; Feb. 27. Class 46.

Stawell Laboratories, Chicago, Ill. Eye medicine. 310,465; Feb. 27; Serial No. 341,812; published Dec. 5, 1933. Class 6.

Stewart, E. W., Los Angeles, Calif. Trunks and bathing suits. 310,420; Feb. 27; Serial No. 341,101; published Dec. 12, 1933. Class 39.

Stumpp & Walter Co., New York, N. Y. Flowering pips. 41,721; renewed Dec. 22, 1933.

Sugarman, Jacob, doing business as Essenes Laboratories, Union City, N. J., and New York, N. Y. Laxative. 310,569; Feb. 27; Serial No. 340,101; published Dec. 12, 1933. Class 6.

Sulka, A., & Company, New York, N. Y. Shirts and undershirts, collars, ties, sweaters, etc. 310,430–1; Feb. 27; Serial Nos. 342,710–11; published Dec. 19, 1933. Class 39.

Sutton, J. Linwood, doing busines as Sutton Laboratories, Durham, N. C. Medicinal preparation. 310,466; Feb. 27; Serial No. 341,412; published Dec. 5, 1933. Class 6.

T. O. S. Distilling Company. (See Clark, Augustus B.)

Talens & Son, assignor to Talens & Son, Inc., Irvington, N. J. Artists' colors. 96,547; renewed Apr. 21, 1934.

Taylor Instrument Companies, Rochester, N. Y. Regulators for controlling temperature, pressure, fluid-flow, and liquid level. 310,607; Feb. 27. Class 26.

Terranova-Industrie C. A. Kapferer & Co., Freiburg, Germany. Materials for artificial-stone work. 95,681; renewed Mar. 3, 1934.

Tetlow, Henry, Co., assignee of Joseph Tetlow, assignor, by mesne assignments, to Henry Tetlow Company, Philadelphia, Pa. Powder. 96,465; renewed Apr. 21, 1934.

Texas Citrus Fruit Growers Exchange, Mission, Tex. Fresh citrus fruit. 310,442; Feb. 27; Serial No. 343,309; published Dec. 19, 1933. Class 46.

Tis-Mettes, Chicago, Ill. Individual make-up packs, containing rouge, powder and lip paste. 310,416; Feb. 27; Serial No. 340,661; published Dec. 5, 1933. Class 6.

Titanium Alloy Manufacturing Company, The, Niagara Falls, N. Y. Chemical compounds used in the manufacture of enamels and glazes. 310,412; Feb. 27; Serial No. 342,368; published Dec. 19, 1933. Class 6.

Titanium Alloy Manufacturing Company, The, Niagara Falls, N. Y. Opaquing agents and pigments. 310,413; Feb. 27; Serial No. 342,367; published Dec. 19, 1933. Class 6.

Trico Products Corporation, Buffalo, N. Y. Electrically operated signalling light systems for use on motor vehicles. 310,461; Feb. 27; Serial No. 341,938; published Dec. 12, 1933. Class 21.

United Brush Manufactories, New York, N. Y. Brushes. 94,841; renewed Jan. 6, 1934.

United Brush Manufactories, New York, N. Y. Brushes. 94,962; renewed Jan. 13, 1934.

United Distillers Corporation, New York, N. Y. Brandy, gin, whisky, and other potable distilled spirits. 310,558; Feb. 27; Serial No. 342,499; published Dec. 12, 1933. Class 49.

United Distillers Corporation, New York, N. Y. Brandy, gin, whisky, and other potable distilled spirits. 310,562; Feb. 27; Serial No. 342,502; published Dec. 12, 1933. Class 49.

United States Hoffman Machinery Corporation, New York, N. Y. Garment presses. 310,481; Feb. 27; Serial No. 332,557; published Dec. 19, 1933. Class 24.

United Water Cooler Service. (See Wheeler, Harvey C.)

Valvoline Oil Company. (See Galena-Signal Oil Company, assignor.)

Vickrey, Dr. H., Remedy Co. (See McFadden, Charles.)

Visking Corporation, The, Chicago, Ill. Sausage casings. 310,467; Feb. 27; Serial No. 341,670; published Dec. 12, 1933. Class 46.

Vita Food Products Incorporated. (See Barvier, Raymond, assignor.)

Webb, A. M., & Co., Inc., New York, N. Y. Bathing suits, jerseys, and sweaters. 310,563; Feb. 27; Serial No. 342 558; published Dec. 19, 1933. Class 39.

Wedemeyer, Eric, New York, N. Y. Knives and pocket knives. 310,410; Feb. 27; Serial No. 342,992; published Dec. 19, 1933. Class 23.

Weller, W. L., & Sons, Louisville, Ky. Whiskies. 310,529; Feb. 27; Serial No. 342,090; published Dec. 12 1933. Class 49.

Welney Company, The, New York, N. Y. Hand lotion. 310,515; Feb. 27; Serial No. 342,293; published Dec. 5, 1933. Class 6.

Wheeler, Harvey C., doing business as United Water Cooler Service, Boston, Mass. Mechanically refrigerated water cooler. 310,566; Feb. 27; Serial No. 342,560; published Dec. 19, 1933. Class 31.

Wiley-Bickford-Sweet Corporation. (See Bickford & Sweet, assignor.)

Wilkin, William J., doing business as Hi Hat, San Francisco, Calif. Shirts. 310,528; Feb. 27; Serial No. 342,093; published Dec. 19, 1933. Class 39.

Wilkinson, Albert N., doing business as Dee-Duct-Teen Co., Baltimore, Md. Medicinal preparation. 310,513; Feb. 27; Serial No. 341,939; published Dec. 12, 1933. Class 6.

Windsor-Lloyd Products, Inc., Wilmington, Del., doing business as Booster Chemical & Engineering Co., Baltimore, Md. Adhesive running board covering cement. 310,500; Feb. 27; Serial No. 342,141; published Dec. 12, 1933. Class 5.

Wolf, Frederick, North Bergen, N. J. Maltless beverage. 310,492; Feb. 27; Serial No. 327,996; published Nov. 14, 1933. Class 45.

Wróblewski, David, doing business as D. Wróblewski, Brooklyn, N. Y. Nonrubbing liniment. 310,415; Feb. 27; Serial No. 340,501; published Dec. 12, 1933. Class 6.

Württembergische Metallwarenfabrik, Geislingen-Steige, Germany. Objects made of porcelain. 310,487; Feb. 27; Serial No. 330,912; published May 30, 1933. Class 30.

Württembergische Metallwarenfabrik, Geislingen-Steige, Germany. Objects made of precious metal or plated therewith. 310,496; Feb. 27; Serial No. 311,546; published May 23, 1933. Class 28.

Wyatt, William D., doing business as Wyatt Manufacturing Co., Pharr, Tex. Compound for use in treating the wires of electric batteries, etc. 310,505; Feb. 27; Serial No. 342,055; published Dec. 5, 1933. Class 6.

Wyeth, John, and Brother Incorporated, Philadelphia, Pa. Elixir of glycero phosphoric compound. 310,517; Feb. 27; Serial No. 342,302; published Dec. 19, 1933. Class 6.

Wyeth, John, and Brother Incorporated, Philadelphia, Pa. Neurasthenic tonic and stimulant. 310,518; Feb. 27; Serial No. 342,299; published Dec. 19, 1933. Class 6.

Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Preparation used for a biliary stimulant, physiological laxative, and cholagogue. 310,552; Feb. 27; Serial No. 342,417; published Dec. 12, 1933. Class 6.

Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Sedative expectorant. 310,553; Feb. 27; Serial No. 342,416; published Dec. 12, 1933. Class 6.

Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Iodine ointment. 310,555; Feb. 27; Serial No. 342,418; published Dec. 12, 1933. Class 6.

Yum-Kone Corporation, Toledo, Ohio. Containers of paper, cellulose, and analogous sheet material. 310,577; Feb. 27; Serial No. 338,856; published Dec. 19, 1933. Class 2.

Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Nonmetallic chemical preparations, fungicides, insecticides, etc. 310,490; Feb. 27; Serial No. 328,197; published Dec. 5, 1933. Class 6.

Ziffer, Charles, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Medicine. 41,901; renewed Jan. 19, 1934.

Zucker, Stein & Co., Newark, N. J. Whisky and brandy. 310,539; Feb. 27; Serial No. 343,101; published Dec. 12, 1933. Class 49.

LIST OF REGISTRANTS OF LABELS

Associated Perfumers, Inc., West Haven, Conn. Dr. Samuel Pitcher's Formula Castoria. For a Medicinal Preparation for Infants and Children. 43,281; Feb. 27.

Barnard, Therides V., doing business as Barnards, Omaha, Nebr. Happy Days Candy Corn. For Candy. 43,282; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Farina-Oatmeal-Wheat Germ Blend Cere-Jel. For Pressure Cooked Farina-Oatmeal-Wheat Germ Blend for Infants, Children, and Special Diets. 43,283; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Strained Green Beans. For Strained Green Beans for Infants, Children, and Special Diets. 43,284; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Oatmeal Cere-Jel. For Pressure Cooked Oatmeal for Infants, Children, and Special Diets. 43,285; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Farina Cere-Jel. For Pressure Cooked Farina for Infants, Children, and Special Diets. 43,286; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Strained Spinach. For Strained Spinach for Infants, Children, and Special Diets. 43,287; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Strained Beets. For Strained Beets for Infants, Children, and Special Diets. 43,288; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Strained Apricots. For Strained Apricots for Infants, Children, and Special Diets. 43,289; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Strained Carrots. For Strained Carrots for Infants, Children, and Special Diets. 43,290; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Strained Prunes. For Strained Prunes for Infants, Children, and Special Diets. 43,291; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Strained Peas. For Strained Peas for Infants, Children, and Special Diets. 43,292; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Strained Apple Sauce. For Strained Apple Sauce for Infants, Children, and Special Diets. 43,293; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Tomato Juice. For Tomato Juice for Infants, Children, and Special Diets. 43,294; Feb. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Baby Soup. For Soup for Infants, Children, and Special Diets. 43,295; Feb. 27.

Bohemian Baking Company, Green Bay, Wis. Butter-Krust. For Bread. 43,296; Feb. 27.

Brinkenhoff, Berdie, doing business as Transo-Game Co., New York, N. Y. Movie Moods Most Fascinating Picture Game. For Picture Games. 43,297; Feb. 27.

California and Hawaiian Sugar Refining Corporation, Limited, San Francisco, Calif. C and H Menu Sugar Pure Cane Bar and Dessert. For Sugar. 43,298; Feb. 27.

Comeau, F. J., & Co., Seattle, Wash. Red Rose. For Canned Salmon. 43,299; Feb. 27.

D'Arcy, P. S., doing business as P. S. D'Arcy & Sons, Brooklyn, N. Y. D'Arcy's Evernu Polish. For Polish for Bars, Pianos, and Furniture. 43,300; Feb. 27.

Fritz Brewing Company. (See Smith, J. F.)

General Mills, Inc., Minneapolis, Minn. Wheaties. For Whole Wheat Flakes. 43,301; Feb. 27.

Hahn, Paul, doing business as Rockwood Brewery Corp., Rockwood, Pa. Hahn's Bavarian Style Brew. For Lager Beer. 43,302; Feb. 27.

Halstead Oil Company, Inc., Cincinnati, Ohio, and Oakland, Calif. Springees Quality. For Penetrating Oil. 43,303; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Ritzi-Miss. For Boxes. 43,304; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Smart Shoes. For Boxes. 43,305; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Rap-Ups. For Boxes. 43,306; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Barton's. For Boxes. 43,307; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Studio Girl. For Boxes. 43,308; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Jack Young. For Boxes. 43,309; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Grover Lyte Arch. For Boxes. 43,310; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Beautiful Shoes. For Boxes. 43,311; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. The Budget Shoe. For Boxes. 43,312; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Nature Sun-Ez. For Boxes. 43,313; Feb. 27.

Hoague-Sprague Corporation, Lynn, Mass. Hotsy Totsy Shoes. For Boxes. 43,314; Feb. 27.

Hollywood Beauty Products, Inc., Hollywood, Calif. Hollywood Milk Bath. For Bath Powder. 43,315; Feb. 27.

Kaier, Chas. D., Co., Inc., Mahanoy City, Pa. Kaier's Old Diamond. For Porter. 43,316; Feb. 27.

Kaier, Chas. D., Co., Inc., Mahanoy City, Pa. Kaier's Old Diamond. For Ale. 43,317; Feb. 27.

Kellogg Company, Battle Creek, Mich. Kellogg's Kaffee Hag Coffee. For Decaffeinated Coffee. 43,318; Feb. 27.

Melchers Distilleries, Limited, Berthierville and Montreal, Quebec, Canada. London Club. For Dry Gin. 43,319; Feb. 27.

Northwestern Mfg. Co., Inc., Chicago, Ill. Patsy Frocks. For Frocks. 43,320; Feb. 27.

Roberts Dairy Company, Lincoln, Nebr. Elkhorn Brand. For Evaporated Milk. 43,321; Feb. 27.

Rockwood Brewery Corp. (See Hahn, Paul.)

Sleeper Products, Inc., Wilmington, Del., and Chicago, Ill. Restal-Knight Mattress. For Mattresses. 43,322; Feb. 27.

Smith, J. F., doing business as Fritz Brewing Company, Freeport, Ill. Fritz Beer. For Beer. 43,323; Feb. 27.

Stagg, Geo. T., Company, The, Frankfort, Ky. Carlton House. For Gin. 43,324; Feb. 27.

Standard Brands Incorporated, New York, N. Y. Stanbi. For Tea. 43,325; Feb. 27.

Standard Brands Incorporated, New York, N. Y. Stanbi. For Tea Balls. 43,326; Feb. 27.

Trade Laboratories Inc., The, Newark, N. J. Cosmos Shaving Cream. For Shaving Cream. 43,327; Feb. 27.

Transo-Game Co. (See Brinkenhoff, Birdie.)

Ward Baking Company, New York, N. Y. Ward's Cracked Wheat Bread. For Bread. 43,328; Feb. 27.

White & Wyckoff Mfg. Co., Holyoke and Riverside, Mass. Herald Square Duo-Tablet. For Typewriter Tablets. 43,329; Feb. 27.

LIST OF REGISTRANTS OF PRINTS

Chilton Pen Company, Inc., The, New York, and Long Island City, N. Y. Chilton Lox-Top Sac Pen. For Fountain Pens. 14,604; Feb. 27.

Cream of Wheat Corporation, The, Minneapolis, Minn. Little Spendthrift of Vital Energy. For Wheat Breakfast Food. 14,605; Feb. 27.

General Mills, Inc., Minneapolis, Minn. Free to Women . . . This New $25,000 Set of "Kitchen-Tested" Recipes! For Flour. 14,606; Feb. 27.

General Utilities Corporation, Philadelphia, Pa. Genuco Fuel Oil. For Fuel Oil. 14,607; Feb. 27.

Hills Bros., San Francisco, Calif. Hills Bros.—Adform 136. For Coffee. 14,608; Feb. 27.

Hills Bros., San Francisco, Calif. Hills Bros.—Adform 137. For Coffee. 14,609; Feb. 27.

Planters Nut & Chocolate Company, Wilkes-Barre, Pa. Planters. For Peanuts. 14,610; Feb. 27.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coke. Buffalo Anthracite Coal Co. Inc. 310,574; Feb. 27; Serial No. 338,925; published Dec. 19, 1933.

Pips, Flowering. Stumpp & Walter Co. 41,721; renewed Dec. 22, 1933.

Sheets of laminated acetate and pyroxylin plastic formed as one product. Gemloid Corporation. 310,587; Feb. 27.

Vegetable substances. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 95,085; renewed Feb. 8, 1934.

CLASS 2

Bags and sacks. Arkell & Smiths. 97,200; renewed May 26, 1934.

Boxes and folders, Packing. Hinde & Dauch Paper Company. 310,422; Feb. 27; Serial No. 341,185; published Dec. 19, 1933.

Containers of paper, cellulose, and analogous sheet material. Yum-Kone Corporation. 310,577; Feb. 27; Serial No. 338,856; published Dec. 19, 1933.

Packages, containers, and wrappers for protecting foods. Kellogg Toasted Corn Flake Company. 97,331; renewed June 2, 1934.

CLASS 3

Trunks, suitcases, purses, etc. Edgar Rice Burroughs, Inc. 310,427; Feb. 27; Serial No. 342,636; published Dec. 19, 1933.

CLASS 4

Cleaning compound. Kleenmor Mfg. Co. 310,589; Feb. 27.

Sandpaper. Behr-Manning Corporation. 310,542; Feb. 27; Serial No. 343,059; published Dec. 19, 1933.

Soap and soap powder. "Sanitas" Co. (U. S. A.) 96,051; renewed Mar. 31, 1934.

CLASS 5

Cement, Adhesive running board covering. Windsor-Lloyd Products, Inc. 310,500; Feb. 27; Serial No. 342,141; published Dec. 12, 1933.

Cement, Rubber. W. A. Sheaffer Pen Company. 310,499; Feb. 27; Serial No. 340,176; published Dec. 12, 1933.

Latex sold as an adhesive, Compounded. American Curatex Corporation. 310,533; Feb. 27; Serial No. 336,169; published Dec. 19, 1933.

CLASS 6

Antiseptic and germicidal product. Wm. S. Merrell Company. 310,525; Feb. 27; Serial No. 342,195; published Dec. 5, 1933.

Antiseptic powder. Anglo-American Pharmaceutical Company Ltd. 94,780; renewed Dec. 30, 1933.

Antiseptic preparation. W. G. Brown. 310,547; Feb. 27; Serial No. 336,925; published Dec. 12, 1933.

Astringents, beauty creams, rouges, etc. Don Baxter, Inc. 310,493; Feb. 27; Serial No. 328,054; published Dec. 19, 1933.

Bay rum. H. Michelsen Co. Ltd. 310,419; Feb. 27; Serial No. 340,803; published Dec. 12, 1933.

Bay rum and antiseptic mouth wash. Chatham Cosmetics & Drugs, Incorporated. 310,580; Feb. 27; Serial No. 337,417; published Dec. 12, 1933.

Chemical compounds used in the manufacture of enamels and glazes. Titanium Alloy Manufacturing Company. 310,412; Feb. 27; Serial No. 342,368; published Dec. 19, 1933.

Chemical driers. Harshaw Chemical Company. 310,506; Feb. 27; Serial No. 342,074; published Dec. 5, 1933.

Chemical photo-print conditioner. Specialty Guild, Inc. 310,594; Feb. 27.

Chemical preparations, fungicides, insecticides, etc., Nonmetallic. Zellstoffabrik Waldhof. 310,490; Feb. 27; Serial No. 328,197; published Dec. 5, 1933.

Compound for use in treating the wires of electric batteries, etc. W. D. Wyatt. 310,505; Feb. 27; Serial No. 342,055; published Dec. 5, 1933.

Compounds used as disinfectants. Kalle & Co., Aktiengesellschaft. 94,997; renewed Jan. 20, 1934.

Cosmetic preparation. M. Rasmus. 310,556; Feb. 27; Serial No. 342,452; published Dec. 12, 1933.

Creams, emulsions, and liquid lotions. A. S. Hinds Co. 310,545; Feb. 27; Serial No. 343,120; published Dec. 19, 1933.

Dehydrators for salt, etc., Moisture absorbent. Aladdin Products Corp. 310,494; Feb. 27; Serial No. 319,433; published Dec. 5, 1933.

Disinfectants. Montana Aktiengesellschaft. 310,469; Feb. 27; Serial No. 341,373; published Dec. 12, 1933.

Douche, Nasal. Kress & Owen Company. 96,425; renewed Apr. 21, 1934.

Dyes. Farbwerke, vormals Meister Lucius & Brüning. 41,857; renewed Jan. 12, 1934.

Elixir of glycero phosphoric compound. John Wyeth and Brother Incorporated. 310,517; Feb. 27; Serial No. 342,302; published Dec. 19, 1933.

Herbal teas, Beverage-forming. Correcto Products, Inc. 310,507; Feb. 27; Serial No. 342,068; published Dec. 12, 1933.

Insecticide. D. Oushimo. 310,474; Feb. 27; Serial No. 334,496; published Dec. 5, 1933.

Insecticide. Plant Foods, Inc. 310,425; Feb. 27; Serial No. 341,839; published Dec. 12, 1933.

Insecticide. Plant Foods, Inc. 310,468; Feb. 27; Serial No. 341,340; published Dec. 12, 1933.

Insecticides. Hammond Paint & Chemical Co. Inc. 310,605; Feb. 27.

Laxative. J. Sugarman. 310,569; Feb. 27; Serial No. 340,101; published Dec. 12, 1933.

Laxatives. G. C. Balch. 310,446; Feb. 27; Serial No. 343,382; published Dec. 19, 1933.

Limestock, Crushed. Exgonite Products Company. 310,571; Feb. 27; Serial No. 340,037; published Dec. 12, 1933.

Liniment, Nonrubbing. D. Wróblewski. 310,415; Feb. 27; Serial No. 340,501; published Dec. 12, 1933.

Liniments. I. Hartstein. 310,509; Feb. 27; Serial No. 342,007; published Dec. 12, 1933.

Liquid radiator stop leak. W. T. Grant Company. 310,511; Feb. 27; Serial No. 341,958; published Dec. 12, 1933.

Lotion, Hand. Welney Company. 310,515; Feb. 27; Serial No. 342,293; published Dec. 5, 1933.

Medicinal nerve-sedative preparations. Dr. Neumann & Co. Chemische fabrik G. m. b. H. 95,007; renewed Jan. 20, 1934.

Medicinal plasters, digestive tablets, fumigators, etc. Johnson & Johnson. 97,478; renewed June 9, 1934.

Medicinal preparation. F. R. Culver. 310,526; Feb. 27; Serial No. 342,177; published Dec. 5, 1933.

Medicinal preparation. Wm. S. Merrell Company. 310,516; Feb. 27; Serial No. 342,307; published Dec. 5, 1933.

Medicinal preparation. Schering Corporation. 310,527; Feb. 27; Serial No. 342,166; published Dec. 5, 1933.

Medicinal preparation. J. L. Sutton. 310,466; Feb. 27; Serial No. 341,412; published Dec. 5, 1933.

Medicinal preparation. A. N. Wilkinson. 310,513; Feb. 27; Serial No. 341,939; published Dec. 12, 1933.

Medicine. T. K. Bowles. 310,477; Feb. 27; Serial No. 334,378; published Dec. 5, 1933.

Medicine. C. Ziffer. 41,901; renewed Jan. 19, 1934.

Medicine, Cathartic. M. Rasmus. 310,557; Feb. 27; Serial No. 342,451; published Dec. 12, 1933.

Medicine, Eye. Stawell Laboratories. 310,465; Feb. 27; Serial No. 341,812; published Dec. 5, 1933.

Medicines, Nasal and throat. A. R. Farnum. 310,464; Feb. 27; Serial No. 341,760; published Dec. 5, 1933.

Nail polish and polish remover and hand lotion, Finger. Marion Lambert, Inc. 310,519; Feb. 27; Serial No. 342,224; published Dec. 12, 1933.

Ointment, Iodine. John Wyeth & Brother, Incorporated. 310,555; Feb. 27; Serial No. 342,418; published Dec. 12, 1933.

Opaquing agents and pigments. Titanium Alloy Manufacturing Company. 310,413; Feb. 27; Serial No. 342,367; published Dec. 19, 1933.

Packs containing rouges, powder, and lip paste, Individual make-up. Tis-Mettes. 310,416; Feb. 27; Serial No. 340,661; published Dec. 5, 1933.

Powder. Henry Tetlow Co. 96,465; renewed Apr. 21, 1934.

Powder, Adhesive denture. Johnson & Johnson. 310,478; Feb. 27; Serial No. 333,157; published Feb. 21, 1933.

Powder and perfumes. Les Parfums Marly, Inc. 310,483; Feb. 27; Serial No. 343,290; published Dec. 19, 1933.

Powder, Foot. J. H. Holman. 310,462; Feb. 27; Serial No. 341,836; published Dec. 5, 1933.
Powder, perfume, rouge, etc., Toilet. Arkwright Merchandising Corp. 310,475; Feb. 27; Serial No. 334,593; published Mar. 21, 1933.
Powder, rouge, lip stick, etc., Face. Manikin Products, Inc. 310,524; Feb. 27; Serial No. 342,232; published Dec. 5, 1933.
Preparation for headache, neuralgia, etc. A. B. Hirschman. 310,463; Feb. 27; Serial No. 341,883; published Dec. 19, 1933.
Preparation for reducing inflammation of the skin and promoting granulations. Farbwerke vorm. Meister Lucius & Brüning. 94,819; renewed Jan. 6, 1934.
Preparation for the treatment of athlete's foot. Consolidated Guardian Chemical Company. 310,578; Feb. 27; Serial No. 338,183; published Dec. 12, 1933.
Preparation used for a biliary stimulant, physiological laxative, and cholagogue. John Wyeth & Brother, Incorporated. 310,552; Feb. 27; Serial No. 342,417; published Dec. 12, 1933.
Preservative. Antiseptic chemical. Farbwerke vorm. Meister Lucius Brüning. 94,820; renewed Jan. 6, 1934.
Remedies for bowel and liver diseases. Sydney Ross Co. 97,505; renewed June 9, 1934.
Salves, liniments, medicinal preparations. C. McFadden. 310,483; Feb. 27; Serial No. 331,527; published Jan. 3, 1933.
Salves, liniments, tonics, etc. Dr. Blair Medicine Company. 39,768; renewed Feb. 10, 1933.
Sedative. Sandoz Chemical Works, Inc. 310,512; Feb. 27; Serial No. 341,986; published Dec. 12, 1933.
Sedative expectorant. John Wyeth & Brother, Incorporated. 310,553; Feb. 27; Serial No. 342,416; published Dec. 12, 1933.
Shampoo, foundation and cleansing cream, perfume, etc. Drexell Products Corp. 310,514; Feb. 27; Serial No. 341,944; published Dec. 19, 1933.
Shampoos and hair tonics. M. Marks. 310,531; Feb. 27; Serial No. 336,012; published Dec. 19, 1933.
Toilet and medicinal preparations. Plough, Inc. 310,484; Feb. 27; Serial No. 331,007; published Nov. 29, 1932.
Toilet preparations. Nestle-Lemur Company. 310,600; Feb. 27.
Tonic and stimulant, Neurasthenic. John Wyeth and Brother Incorporated. 310,518; Feb. 27; Serial No. 342 299; published Dec. 19, 1933.
Tonic, bay rum, mineral oil, etc., Hair. S. Hagler. 310,579; Feb. 27; Serial No. 338,187; published Dec. 12, 1933.
Tonic preparation. Ford Hopkins Co. 310,582; Feb. 27; Serial No. 337,253; published June 6, 1933.

CLASS 7

Cordage. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 95,251; renewed Feb. 3, 1934.

CLASS 8

Cigarette paper. Peter J. Schweitzer, Inc. 310,447; Feb. 27; Serial No. 343,370; published Dec. 19, 1933.

CLASS 10

Fertilizers. L. I. Ramey. 310,489; Feb. 27; Serial No. 330,021; published Dec. 19, 1933.

CLASS 12

Materials for artificial-stone work. Terranova-Industrie C. A. Kapferer & Co. 95,681; renewed Mar. 3, 1934.

CLASS 13

Wire goods, plumbing supplies, etc. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 95,898; renewed Mar. 24, 1934.

CLASS 15

Gasoline. Lubri-Graph Corporation. 310,486; Feb. 27; Serial No. 330,303; published Apr. 18, 1933.
Gasoline, oils and greases, and kerosene. Edgar R. Burroughs, Inc. 310,426; Feb. 27; Serial No. 342,638; published Dec. 12, 1933.
Oil, Lubricating and illuminating. Galena-Signal Oil Company. 97,326; renewed June 2, 1934.
Oils, Lubricating. L. Blaustein. 97,673; renewed June 16, 1934.

CLASS 16

Colors, Artists'. Talens & Son. 96,547; renewed Apr. 21, 1934.

CLASS 17

Cigars. Berriman Bros., Inc. 310,581; Feb. 27; Serial No. 337,504; published June 13, 1933.
Cigars. M. & N. Cigar Manufacturers, Inc. 310,445; Feb. 27; Serial No. 343,358; published Dec. 19, 1933.
Tobacco, Smoking. H. A. Cohn. 310,495; Feb. 27; Serial No. 327,679; published Dec. 19, 1933.

CLASS 19

Automobile bodies and their structural parts. Chrysler Corporation. 310,441; Feb. 27; Serial No. 343,388; published Dec. 19, 1933.
Automobile bodies and their structural parts. Chrysler Corporation. 310,443; Feb. 27; Serial No. 343,387; published Dec. 19, 1933.
Automobiles and structural parts thereof. Continental Automobile Company. 310,476; Feb. 27; Serial No. 334,029; published Oct. 24, 1933.
Carts, trucks, trailers, wheelbarrows. Jaburg Brothers, Inc. 310,450; Feb. 27; Serial No. 343,287; published Dec. 19, 1933.

CLASS 21

Electric-lamp sockets. Bryant Electric Company. 94,879; renewed Jan. 13, 1934.
Electrical fixtures. Folmer-Electracide Corporation. 310,408; Feb. 27; Serial No. 342,944; published Dec. 12, 1933.
Electrically illuminated house numbers, name plates, and advertising signs. Home-Electrical Specialties Corp. 310,479; Feb. 27; Serial No. 333,555; published Dec. 12, 1933.
Electrically operated signalling light systems. Trico Products Corporation. 310,461; Feb. 27; Serial No. 341,938; published Dec. 12, 1933.

CLASS 22

Cards, Playing. B. A. Lynch, jr. 310,472–3; Feb. 27; Serial Nos. 334,712–13; published Dec. 19, 1933.
Fish lines. Cortland Line Company. 310,550; Feb. 27; Serial No. 343,488; published Dec. 19, 1933.
Golf clubs. Crawford, McGregor and Canby Company. 310,551; Feb. 27; Serial No. 343,494; published Dec. 19, 1933.
Oars, sweeps, and sculls. New York Boat Oar Company. 94,393; renewed Dec. 2, 1933.
Toy scales. Ajax Bottle Cap Corp. 310,444; Feb. 27; Serial No. 343,314; published Dec. 19, 1933.

CLASS 23

Attachment for typewriting machines, Manifolding. Manifold Devices & Systems Corp. 310,439; Feb. 27; Serial No. 342,760; published Dec. 19, 1933.
Castings, forgings, and fabrications, Metallic. American Steel Foundries. 310,488; Feb. 27; Serial No. 329,487; published Dec. 19, 1933.
Cutlery and tools. Collins Company. 97,825; renewed June 23, 1934.
Knitting machine appliances. E. Beckert. 42,283; renewed Mar. 22, 1934.
Knives. E. Wedemeyer. 310,410; Feb. 27; Serial No. 342,992; published Dec. 19, 1933.
Mechanical fruit juicers. Hydraulic Press Manufacturing Company. 310,414; Feb. 27; Serial No. 340,616; published Dec. 19, 1933.
Parts for agricultural implements. Galesburg Coulter-Disc Co. 96,269; renewed Apr. 14, 1934.
Razor blades. Club Razor and Blade Mfg. Corp. 310,399; Feb. 27; Serial No. 340,382; published Dec. 19, 1933.
Scissors and shears. Clayton Bros. Inc. 98,129; renewed July 7, 1934.
Sweepers, Carpet. Bissell Carpet Sweeper Co. 310,503; Feb. 27; Serial No. 342,151; published Dec. 19, 1933.
Tank. W. F. Petersen. 310,471; Feb. 27; Serial No. 335,832; published June 13, 1933.
Tenderers, butcher knives, and cleavers, Meat. Foster Bros. & Chatillon Co. 310,585; Feb. 27; Serial No. 337,181; published Dec. 19, 1933.
Wrenches, augers, butcher knives, etc. Sears, Roebuck and Co. 310,535; Feb. 27; Serial No. 336,301; published Aug. 8, 1933.

CLASS 24

Presses, Garment. United States Hoffman Machinery Corporation. 310,481; Feb. 27; Serial No. 332,557; published Dec. 19, 1933.

CLASS 26

Gages and indicators, Fluid-pressure. A. Schrader's Son, Incorporated. 97,788; renewed June 16, 1934.
Meteorological covers, accelerometers, altimeters, etc. Etablissements Aera. 310,497; Feb. 27; Serial No. 312,079; published Nov. 22, 1932.
Regulators for controlling temperature, pressure, fluid-flow, and liquid level. Taylor Instrument Companies. 310,607; Feb. 27.
Thermostats, thermostatic valves, and thermostatic regulators. Robertshaw Thermostat Company. 310,502; Feb. 27; Serial No. 342,015; published Dec. 19, 1933.

CLASS 28

Jewelry and ornamental novelties. Molding Corporation of America, Inc. 310,411; Feb. 27; Serial No. 342,950; published Dec. 12, 1933.
Objects made of precious metal or plated therewith. Württembergische Metallwarenfabrik. 310,496; Feb. 27; Serial No. 311,546; published May 23, 1933.

CLASS 29

Brushes. United Brush Manufactories. 94,841; renewed Jan. 6, 1934.
Brushes. United Brush Manufactories. 94,962; renewed Jan. 13, 1934.
Brushes, Denture. Johnson & Johnson. 310,396; Feb. 27; Serial No. 342,895; published Dec. 19, 1933.

CLASS 30

Porcelain, Objects made of. Württembergische Metallwarenfabrik. 310,487; Feb. 27; Serial No. 330,912; published May 30, 1933.

CLASS 31

Cooler, Mechanically refrigerated water. H. C. Wheeler. 310,566; Feb. 27; Serial No. 342,560; published Dec. 19, 1933.
Cooling and dispensing apparatus, Beverage. Illinois Brass Manufacturing Co. 310,421; Feb. 27; Serial No. 340,877; published Dec. 19, 1933.
Refrigerators. Bohn Refrigerator Company. 310,583; Feb. 27; Serial No. 337,328; published Dec. 19, 1933.

CLASS 32

Pillows and mattresses. Simon Mattress and Manufacturing Company. 310,559; Feb. 27; Serial No. 342,458; published Dec. 19, 1933.

CLASS 36

Musical instruments, repairs, and supplies. Honeycombe & Son. 310,460; Feb. 27; Serial No. 341,922; published Dec. 12, 1933.
Strings for musical instruments, Wire. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 94,807; renewed Jan. 6, 1934.
Strings for musical instruments, Wire. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 95,086; renewed Feb. 3, 1934.

CLASS 37

Books, Sales. Shelby Printing Company. 95,568; renewed Feb. 24, 1934.
Paper. L. L. Brown Paper Company. 97,465; renewed June 9, 1934.

CLASS 38

Periodical. American Museum of Safety. 97,800; renewed June 23, 1934.

CLASS 39

Boots, shoes, and slippers. Coes & Young Co. 97,041; renewed May 19, 1934.
Coats. Lou Schneider, Inc. 310,423; Feb. 27; Serial No. 341,136; published Dec. 12, 1933.
Coats. Lou Schneider, Inc. 310,530; Feb. 27; Serial No. 342,200; published Dec. 12, 1933.
Coats, vests, pants, etc. Fashion Park Associates, Inc. 310,593; Feb. 27.
Dresses, suits, sweaters, blouses. S. Augstein & Co. 310,418; Feb. 27; Serial No. 340,824; published Nov. 14, 1933.
Gloves and mittens, Rubber. Seamless Rubber Company. 97,279; renewed May 26, 1934.
Hosiery. W. T. Grant Company. 310,544; Feb. 27; Serial No. 343,119; published Dec. 12, 1933.
Hosiery. Haines Hosiery Mills Co. 310,596; Feb. 27.
Hosiery. A. McLellan, 3d. 310,606; Feb. 27.
Hosiery. Rainbow Hosiery, Inc. 310,449; Feb. 27; Serial No. 343,228; published Dec. 19, 1933.
Knit goods and flannelettes. Brown Durrell Co. 310,397; Feb. 27; Serial No. 340,213; published Dec. 12, 1933.
Overalls. Sears, Roebuck and Co. 310,405; Feb. 27; Serial No. 342,817; published Dec. 12, 1933.
Overcoats and suits. Eiferman & Frank. 310,603; Feb. 27.
Overcoats, coats, vests, and trousers. B. Kuppenheimer & Company. 95,919; renewed Mar. 24, 1934.
Pajamas, shirts, and underwear. Knothe Brothers Co., Inc. 310,560; Feb. 27; Serial No. 342,538; published Dec. 5, 1933.
Pajamas, shirts, and underwear. Knothe Brothers Co., Inc. 310,564; Feb. 27; Serial No. 342,539; published Dec. 5, 1933.
Pajamas, shirts, nightshirts, and underwear. Knothe Brothers Co., Inc. 310,561; Feb. 27; Serial No. 342,537; published Dec. 19, 1933.
Shirts. Cameron and Company. 310,408; Feb. 27; Serial No. 342,790; published Dec. 19, 1933.
Shirts. W. J. Wilkin. 310,528; Feb. 27; Serial No. 342,093; published Dec. 19, 1933.
Shirts and athletic goods. Niremberg & Salzman, Inc. 310,595; Feb. 27.
Shirts and undershirts, collars, ties, sweaters, etc. A. Sulka & Company. 310,430–1; Feb. 27; Serial Nos. 342,710–11; published Dec. 19, 1933.
Slippers and slipper-soles. Bickford & Sweet. 96,568; renewed Apr. 21, 1934.
Suits and overcoats. Pincus Bros., Inc. 310,435; Feb. 27; Serial No. 342,716; published Dec. 12, 1933.
Suits, jerseys, and sweaters, Bathing. A. M. Webb & Co. 310,563; Feb. 27; Serial No. 342,558; published Dec. 19, 1933.
Sweaters, ski suits, sweater suits, and windbreakers. Revere Knitting Mills, Inc. 310,541; Feb. 27; Serial No. 343,043; published Dec. 12, 1933.
Trunks and bathing suits. E. W. Stewart. 310,420; Feb. 27; Serial No. 341,101; published Dec. 12, 1933.
Underwear, Ladies' knit. Parsons & Baker Co. 97,883; renewed June 23, 1934.

CLASS 40

Combs. W. Ehlers. 310,601; Feb. 27.
Combs. Rheinische Gummi- und Celluloid-Fabrik. 310,591; Feb. 27.

CLASS 42

Cotton piece goods. W. Lind. 310,536; Feb. 27; Serial No. 336,535; published Dec. 5, 1933.
Cotton piece goods. W. Lind. 310,549; Feb. 27; Serial No. 336,536; published Dec. 5, 1933.
Flannel and woolen piece goods. D. W. Farnsworth. 94,725; renewed Dec. 30, 1933.
Piece goods. W. Lind. 310,417; Feb. 27; Serial No. 340,650; published Dec. 12, 1933.
Piece goods. I. Sacks & Sons. 310,592; Feb. 27.
Pile fabrics. Rossie Velvet Company. 310,448; Feb. 27; Serial No. 343,225; published Dec. 12, 1933.
Sheets and pillowcases. Schafran & Finkel. 310,584; Feb. 27; Serial No. 336,996; published Dec. 12, 1933.

CLASS 44

First-aid cases. Johnson & Johnson. 98,057; renewed June 30, 1934.
Prophylactic rubber goods. Akron Drug and Sundries Company. 310,424; Feb. 27; Serial No. 342,602; published Dec. 19, 1933.
Surgical operating lamps and reflectors. Scialytic Corporation of America. 310,532; Feb. 27; Serial No. 336,140; published June 6, 1933.
Water bottles and fountain syringes, and combination bottle and syringe, Rubber. Neisner Brothers, Inc. 310,586; Feb. 27.

CLASS 45

Beverage, Maltless. F. Wolf. 310,492; Feb. 27; Serial No. 327,995; published Nov. 14, 1933.
Flavoring extract. Postum Cereal Co. 95,347; renewed Feb. 10, 1934.
Maltless beverages and carbonated and still table water. C. Anderson. 310,534; Feb. 27; Serial No. 343,110; published Dec. 19, 1933.

CLASS 46

Biscuits, cakes, and cookies. Loose-Wiles Biscuit Company. 95,449; renewed Feb. 17, 1934.
Cake. Loft, Inc. 310,452; Feb. 27; Serial No. 343,291; published Dec. 19, 1933.
Candy. Barricini Inc. 310,433; Feb. 27; Serial No. 342,726; published Dec. 12, 1933.
Canned fish. Halfhill Company. 310,602; Feb. 27.
Canned shellfish, fruits, vegetables, molasses, etc. Standard, Incorporated. 310,604; Feb. 27.
Canned vegetables. Del Sur Canning Co. 310,485; Feb. 27; Serial No. 331,145; published Dec. 12, 1933.
Cereal products. General Mills, Inc. 310,395; Feb. 27; Serial No. 342,376; published Dec. 12, 1933.
Chocolate. Walter Baker & Company. 310,400; Feb. 27; Serial No. 342 783; published Dec. 19, 1933.
Coffee concentrate. J. Israel. 310,575; Feb. 27; Serial No. 339,075; published Dec. 19, 1933.
Confections and ice-cream confection on sticks, Frozen. Frozen Confections, Inc. 310,480; Feb. 27; Serial No. 332,117; published Dec. 19, 1933.
Confections, Frozen. Eskimo Pie Corporation. 310,402; Feb. 27; Serial No. 342,795; published Dec. 19, 1933.
Crackers. B. Manischewitz Co. 310,407; Feb. 27; Serial No. 342,861; published Dec. 19, 1933.
Cream, butter, and cheese. E. Galbani. 310,598; Feb. 27.
Extract and canned sardines, Malt. Hilmer Commission Co. 310 470; Feb. 27; Serial No. 934,918; published Dec. 19, 1933.
Fillets of fresh fish. General Seafoods Corporation. 310,501; Feb. 27; Serial No. 342,128; published Dec. 12, 1933.
Fish products, Preserved. R. Barvier. 96,389; renewed Apr. 21, 1934.
Flavoring agent. A. H. Ferber. 310,570; Feb. 27; Serial No. 339,934; published Dec. 12, 1933.
Flavoring material for foods. Postum Cereal Company. 94,933; renewed Jan. 13, 1934.
Flour, Wheat. Davis Milling Company. 95,705; renewed Mar. 3, 1934.
Flour, Wheat. Dunlop Milling Company. 94,891; renewed Jan. 13, 1934.
Flour, Wheat. Eisenmayer Milling Company. 97,046; renewed May 19, 1934.
Flour, Wheat. Fisher Flouring Mills Company. 310,456; Feb. 27; Serial No. 343,169; published Dec. 19, 1933.
Flour, Wheat. Fisher Flouring Mills Company. 310,457; Feb. 27; Serial No. 343,167; published Dec. 19, 1933.
Foods. Kansas City Wholesale Grocery Company. 97,058; renewed May 19, 1934.
Fruit, Fresh citrus. Texas Citrus Fruit Growers Association. 310,442; Feb. 27; Serial No. 343,309; published Dec. 19, 1933.
Fruits, Citrus. J. McCormick. 97,156; renewed May 19, 1934.
Fruits, Dried. California Prune & Apricot Growers Association. 310,583; Feb. 27.
Haddock and cod. Bay State Fishing Company. 310,572–3; Feb. 27; Serial Nos. 339,176–7; published Dec. 19, 1933.
Honey food spread. Crane Honey Incorporated. 310,428; Feb. 27; Serial No. 342,688; published Dec. 19, 1933.
Ice cream. Pecan Krisp Company. 310,590; Feb. 27.
Macaroni. General Importing Company. 310,409; Feb. 27; Serial No. 342,904; published Dec. 19, 1933.
Peanuts. H. W. Powell. 310,482; Feb. 27; Serial No. 331,196; published Dec. 12, 1933.
Popcorn and candies. Loose-Wiles Biscuit Company. 94,918; renewed Jan. 13, 1934.
Salt. Barton Salt Company. 97,668; renewed June 16, 1934.

Sandwich spread and salad dressing. Hawaiian Avocado Co. Ltd. 310,458; Feb. 27; Serial No. 343,208; published Dec. 19, 1933.
Sausage casings. Visking Corporation. 310,467; Feb. 27; Serial No. 341,670; published Dec. 12, 1933.
Sugar. Pennsylvania Sugar Company. 97,780; renewed June 16, 1934.
Tea, coffee, pepper, and currie powder. Kabushiki Kaisha Kotobukiya. 310,498; Feb. 27; Serial No. 340,122; published Dec. 19, 1933.

CLASS 47

Sherry and port. Schenley Wine & Spirit Import Corporation. 310,599; Feb. 27.

CLASS 48

Beer. Abner Drury Brewery Inc. 310,440; Feb. 27; Serial No. 343,428; published Dec. 19, 1933.
Beer. Pilsner Actien-Brauereien. 310,522; Feb. 27; Serial No. 342,286; published Dec. 19, 1933.
Malt beverages. American Brewery, Incorporated. 310,548; Feb. 27; Serial No. 343,430; published Dec. 19, 1933.
Malt beverages. Anaconda Brewing Co. 310,543; Feb. 27; Serial No. 343,111; published Dec. 19, 1933.
Malt beverages. N. H. Darsky. 310,451; Feb. 27; Serial No. 343,272; published Dec. 19, 1933.
Malt beverages. A. Gettelman Brewing Company. 310,398; Feb. 27; Serial No. 340,442; published Dec. 19, 1933.
Malt beverages. J. Ruppert. 310,576; Feb. 27; Serial No. 338,827; published Dec. 19, 1933.

CLASS 49

Alcohol cordials, Distilled. J. D. Monica. 310,438; Feb. 27; Serial No. 342,761; published Dec. 19, 1933.
Brandy. G. Gautier. 310,406; Feb. 27; Serial No. 342,903; published Dec. 12, 1933.
Brandy. Laird & Company. 310,540; Feb. 27; Serial No. 343,076; published Dec. 12, 1933.
Brandy, gin, whisky, etc. United Distillers Corporation. 310,558; Feb. 27; Serial No. 342,499; published Dec. 12, 1933.
Brandy, gin, whisky, and other potable distilled spirits. United Distillers Corporation. 310,562; Feb. 27; Serial No. 342,502; published Dec. 12, 1933.
Gin. Bohemian Distributing Co. Ltd. 310,565; Feb. 27; Serial No. 342,571; published Dec. 12, 1933.
Gin. B. F. Lilienthal. 310,523; Feb. 27; Serial No. 342,280; published Dec. 19, 1933.
Whiskies. W. L. Weller & Sons. 310,520; Feb. 27; Serial No. 342,090; published Dec. 12, 1933.
Whisky. American Medicinal Spirits Company. 310,404; Feb. 27; Serial No. 342,832; published Dec. 12, 1933.
Whisky. American Medicinal Spirits Company. 310,434; Feb. 27; Serial No. 342,723; published Dec. 12, 1933.
Whisky. George Benz Sons, Inc. 310,537; Feb. 27; Serial No. 343,023; published Dec. 19, 1933.
Whisky. Bohemian Distributing Co. Ltd. 310,568; Feb. 27; Serial No. 342,573; published Dec. 12, 1933.
Whisky. Buffalo Springs Distilling Company. 310,401; Feb. 27; Serial No. 342,780; published Dec. 12, 1933.
Whisky. Distillers Distributing Corporation. 310,429; Feb. 27; Serial No. 342,691; published Dec. 12, 1933.
Whisky. Friedman-Lemler Company. 310,459; Feb. 27; Serial No. 343,206.
Whisky. Gallagher & Burton, Inc. 310,520; Feb. 27; Serial No. 342,221; published Dec. 12, 1933.
Whisky. Juillard, Incorporated. 310,554; Feb. 27; Serial No. 342,435; published Dec. 12, 1933.
Whisky. H. Kraus. 310,521; Feb. 27; Serial No. 342,354; published Dec. 19, 1933.
Whisky and brandy. Zucker, Stein & Co. 310,539; Feb. 27; Serial No. 343,101; published Dec. 12, 1933.
Whisky and/or other potable distilled spirits. B. M. Markstein. 310,508; Feb. 27; Serial No. 342,010; published Dec. 12, 1933.
Whisky and other potable distilled liquors. Consolidated Distilleries, Limited. 310,432; Feb. 27; Serial No. 342,734; published Dec. 12, 1933.
Whisky and other potable distilled liquors. Consolidated Distilleries, Limited. 310,437; Feb. 27; Serial No. 342,736; published Dec. 12, 193.
Whisky, brandy, gin, and other potable distilled spirits. Geo. T. Stagg Co. 310,454-5; Feb. 27; Serial Nos. 343,140-41; published Dec. 12, 1933.
Whisky, brandy, gin, and rum. Foust Distilling Company, Inc. 310,510; Feb. 27; Serial No. 341,956; published Dec. 12, 1933.
Whisky, brandy, gin, etc. Jos. S. Finch & Company. 310,567; Feb. 27; Serial No. 342,582; published Nov. 28, 1933.
Whisky, brandy, rum, liqueur or cordial, gin. J. H. R. Grant. 310,394; Feb. 27; Serial No. 342,393; published Dec. 12, 1933.
Whisky, etc. Consolidated Distilleries, Limited. 310,436; Feb. 27; Serial No. 342,738; published Dec. 12, 1933.
Whisky, etc. Jos. S. Finch & Company. 310,597; Feb. 27.
Whisky, gin, distilled alcoholic cordials, etc. W. Sheinker & Son, Inc. 310,546; Feb. 27; Serial No. 336,665; published Dec. 12, 1933.
Whisky, Rye. A. B. Clark. 310,504; Feb. 27; Serial No. 342,065; published Dec. 12, 1933.
Whisky, Scotch. Low, Robertson & Co. Limited. 310,538; Feb. 27; Serial No. 343,082; published Dec. 19, 1933.

CLASS 50

Articles composed of certain substances. Felten & Guilleaume Carlswerk Actien-Gesellschaft. 94,808-9; renewed Jan. 6, 1934.

LIST OF LABELS

Barton's. For Boxes. Hoague-Sprague Corporation. 43,307; Feb. 27.
Beautiful Shoes. For Boxes. Hoague-Sprague Corporation. 43,311; Feb. 27.
Beech-Nut Baby Soup. For Soup for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,295; Feb. 27.
Beech-Nut Farina Cere-Jel. For Pressure Cooked Farina for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,286; Feb. 27.
Beech-Nut Farina-Oatmeal-Wheat Germ Blend Cere-Jel. For Pressure-Cooked Farina-Oatmeal-Wheat Germ Blend for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,283; Feb. 27.
Beech-Nut Oatmeal Cere-Jel. For Pressure Cooked Oatmeal for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,285; Feb. 27.
Beech-Nut Strained Apple Sauce. For Strained Apple Sauce for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,293; Feb. 27.
Beech-Nut Strained Apricots. For Strained Apricots for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,289; Feb. 27.
Beech-Nut Strained Beets. For Strained Beets for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,288; Feb. 27.
Beech-Nut Strained Carrots. For Strained Carrots for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,290; Feb. 27.
Beech-Nut Strained Green Beans. For Strained Green Beans for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,284; Feb. 27.
Beech-Nut Strained Peas. For Strained Peas for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,292; Feb. 27.
Beech-Nut Strained Prunes. For Strained Prunes for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,291; Feb. 27.
Beech-Nut Strained Spinach. For Strained Spinach for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,287; Feb. 27.
Beech-Nut Tomato Juice. For Tomato Juice for Infants, Children, and Special Diets. Beech-Nut Packing Company. 43,294; Feb. 27.
Butter-Krust. For Bread. Bohemian Baking Company. 43,296; Feb. 27.
C and H Menu Sugar Pure Cane Bar and Dessert. For Sugar. California and Hawaiian Sugar Refining Corporation, Limited. 43,298; Feb. 27.
Carlton House. For Gin. Geo. T. Stagg Company. 43,324; Feb. 27.
Cosmos Shaving Cream. For Shaving Cream. Trade Laboratories Inc. 43,327; Feb. 27.
D'Arcy's Evernu Polish. For Polish for Bars, Pianos, and Furniture. P. S. D'Arcy. 43,300; Feb. 27.
Dr. Samuel Pitcher's Formula Castoria. For a Medicinal Preparation for Infants and Children. Associated Perfumers, Inc. 42,281; Feb. 27.
Elkhorn Brand. For Evaporated Milk. Roberts Dairy Company. 43,321; Feb. 27.
Fritz Beer. For Beer. J. F. Smith. 43,323; Feb. 27.
Grover Lyte Arch. For Boxes. Hoague-Sprague Corporation. 43,310; Feb. 27.
Hahn's Bavarian Style Brew. For Lager Beer. P. Hahn. 43,302; Feb. 27.
Happy Days Candy Corn. For Candy. T. V. Barnard. 43,282; Feb. 27.
Herald Square Duo-Tablet. For Typewriter Tablets. White & Wyckoff Mfg. Co. 43,329; Feb. 27.
Hollywood Milk Bath. For Bath Powder. Hollywood Beauty Products, Inc. 43,315; Feb. 27.
Hotsy Totsy Shoes. For Boxes. Hoague-Sprague Corporation. 43,314; Feb. 27.
Jack Young. For Boxes. Hoague-Sprague Corporation. 43,309; Feb. 27.
Kaier's Old Diamond. For Ale. Chas. D. Kaier Co. 43,317; Feb. 27.
Kaier's Old Diamond. For Porter. Chas. D. Kaier Co. 43,316; Feb. 27.
Kellogg's Kaffee Hag Coffee. For Decaffeinated Coffee. Kellogg Company. 43,318; Feb. 27.
London Club. For Dry Gin. Melchers Distilleries, Limited. 43,319; Feb. 27.
Movie Moods Most Fascinating Picture Game. For Picture Games. B. Brinkenhoff. 43,297; Feb. 27.
Nature Sun-Ez. For Boxes. Hoague-Sprague Corporation. 43,313; Feb. 27.

Patsy Frocks. For Frocks. Northwestern Mfg. Co. 43,320; Feb. 27.
Rap-Ups. For Boxes. Hoague-Sprague Corporation. 43,306; Feb. 27.
Red Rose. For Canned Salmon. F. J. Comeau & Co. 43,299; Feb. 27.
Restal-Knight Mattress. For Mattresses. Sleeper Products, Inc. 43,322; Feb. 27.
Ritzi-Miss. For Boxes. Hoague-Sprague Corporation. 43,304; Feb. 27.
Smart Shoes. For Boxes. Hoague-Sprague Corporation. 43,305; Feb. 27.
Springeez Quality. For Penetrating Oil. Halstead Oil Company. 43,303; Feb. 27.
Stanbi. For Tea. Standard Brands Incorporated. 43,325; Feb. 27.
Stanbi. For Tea Balls. Standard Brands Incorporated. 43,326; Feb. 27.
Studio Girl. For Boxes. Hoague-Sprague Corporation. 43,308; Feb. 27.
The Budget Shoe. For Boxes. Hoague-Sprague Corporation. 43,312; Feb. 27.
Ward's Cracked Wheat Bread. For Bread. Ward Baking Company. 43,328; Feb. 27.
Wheatles. For Whole Wheat Flakes. General Mills, Inc. 43,301; Feb. 27.

LIST OF PRINTS

Chilton Lox-Top Sac Pen. For Fountain Pens. Chilton Pen Company. 14,604; Feb. 27.
Free to Women . . . This New $25,000 Set of "Kitchen-Tested" Recipes! For Flour. General Mills, Inc. 14,606; Feb. 27.
Genuco Fuel Oil. For Fuel Oil. General Utilities Corporation. 14,607; Feb. 27.
Hills Bros.—Adform 136. For Coffee. Hills Bros. 14,608; Feb. 27.
Hills Bros.—Adform 137. For Coffee. Hills Bros. 14,609; Feb. 27.
Little Spendthrift of Vital Energy. For Wheat Breakfast Food. Cream of Wheat Corporation. 14,605; Feb. 27.
Planters. For Peanuts. Planters Nut & Chocolate Company. 14,610; Feb. 27.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF FEBRUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Hinged mandrel. 1,948,607; Feb. 27.

Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Mandrel. 1,948,608; Feb. 27.

Abbott, Cornelius F., and C. A. Conklin, 3d, assignors, by mesne assignments, to C. F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md. Adsorption system. 1,948,779; Feb. 27.

Achterhof, Marvin, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Artificial turf and making the same. 1,949,068; Feb. 27.

Acme Motion Picture Projector Company. (See De Vault, Ralph P., assignor.)

Adair, George P., San Antonio, Tex. Radio receiving system. 1,949,136; Feb. 27.

Adams, Harold B., Monett, Mo. Refrigerator. 1,948,780; Feb. 27.

Adlake Company, The. (See Verhagen, Christian M., assignor.)

Adlake Company, The. (See Hamm, William S., assignor.)

Aiken, Charles B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave amplifier. 1,948,977; Feb. 27.

Air Reduction Company. (See Balcar, Frederick R., assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Baur, Arthur, assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Kobel, Ernst, assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Noack, Walter G., assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Plechl, Otto, assignor.)

Albrecht, Karl, assignor to Maschinenfabrik Johannisberg, G. m. b. H., Geisenheim-on-the-Rhine, Germany. Monochrome and polychrome printing. 1,949,001; Feb. 27.

Allen, Henry A., trustee, et al. (See Pratt, Harry P., assignor.)

Almen, John O., Royal Oak, assignor to General Motors Research Corporation, Detroit, Mich. Car suspension. 1,948,482; Feb. 27.

Aluminum Industries, Inc. (See Lewis, Richard B., jr., assignor.)

Alvord, Charles C., assignor to Worcester Loom Works, Worcester, Mass. Tuft frame for looms. 1,948,835; Feb. 27.

Aman, Frank A., and H. B. Sandmann, jr., Cincinnati, Ohio. Box with hinged lid. 1,948,483; Feb. 27.

American Can Company. (See Hothersall, John M., assignor.)

American Can Company. (See Jacobs, Samuel S., assignor.)

American Can Company. (See Murch, John H., assignor.)

American Can Company. (See Widell, Magnus E., assignor.)

American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)

American Fabrics Company, The. (See Juestrich, Max U., assignor.)

American Lace Mfg. Co., The. (See Hucknall, Hage W., assignor.)

American Laundry Machinery Company, The. (See Johnson, George W., assignor.)

American Machine & Foundry Company. (See Gwinn, George W., assignor.)

American Machine & Foundry Company. (See Patterson, Morehead, assignor.)

American Optical Company. (See Tillyer, Edgar D., assignor.)

American Pulverizing Corporation. (See Andrews, N. H., and Willoughby, assignors.)

American Radiator Company. (See Dillman, Earnest J., assignor.)

American Rolling Mill Company, The. (See Dimmick, Ralph B., assignor.)

American Smelting & Refining Company. (See Lindner, Karl A., assignor.)

American Telephone and Telegraph Company. (See Potter, Ralph K., assignor.)

American Telephone and Telegraph Company. (See Rhodes, Harold A., assignor.)

American Writing Paper Company. (See Yoerg, Leon M., assignor.)

Andersen, Lauritz W., Waterbury, Conn. Music stand lamp. 1,949,289; Feb. 27.

Andersen, Niels K., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupting device. 1,948,741; Feb. 27.

Anderson, Ralph L., assignor to Deere & Company, Moline, Ill. Harvester. 1,948,484; Feb. 27.

Andreas, Arno, Munster, Germany. Apparatus for manufacturing cement and the like. 1,948,742; Feb. 27.

Andrews, Isaac, Spartanburg, S. C. Antirattle device. 1,948,640; Feb. 27.

Andrews, Norwood H., Moorestown, N. J., and W. I. Willoughby, Philadelphia, Pa., assignors to American Pulverizing Corporation, Camden, N. J. Pulverizing minerals and similar materials. 1,948,609; Feb. 27.

Annis, Emmett F., Glendale, Calif. Self-cleaning dust collector. 1,949,002; Feb. 27.

Anselm, Albert J., Lake Bluff, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Drawing wire. 1,948,485; Feb. 27.

Apex Electrical Manufacturing Company, The. (See McCabe, John J., assignor.)

Apotheker, Carl. (See Bonhôte, G., and Apotheker.)

Armitage, Joseph B., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine tool transmission and control mechanism. 1,949,097; Feb. 27.

Armsby, Colette, New York, N. Y. Hairdress protector. 1,948,556; Feb. 27.

Asbridge, Harry H., Ashton-on-Mersey, assignor to The Churchill Machine Tool Company, Limited, Broadheath, near Manchester, England. Grinding or abrading machine. 1,949,345; Feb. 27.

Ash, Charles S., assignor to California Packing Corporation, San Francisco, Calif. Making vinegar. 1,948,836; Feb. 27.

Associated Silver Company. (See Herring, G. E., and Dean, assignors.)

Atlantic Lithographic & Printing Company, The. (See Carmichael, David M., assignor.)

Atlantic Refining Company. (See Malisoff, William M., assignor.)

Atlas Powder Company. (See Jeffries, John M., assignor.)

Atti, Raphael, Union City, N. J., assignor, by mesne assignments, to L C Smith & Corona Typewriters Inc., New York, N. Y. Noiseless typewriter action. 1,948,935; Feb. 27.

Aubert, Roger. (See Villem, R., and Aubert.)

Aurynger, John J., Takoma Park, Md. Variable condenser. 1,949,137; Feb. 27.

Austin, John B., East Cleveland, assignor to Una Welding, Inc., Cleveland, Ohio. Welding rod. 1,949,398; Feb. 27.

Auto Research Corporation. (See Bijur, Joseph, assignor.)

Autogiro Company of America. (See de la Cierva, Juan, assignor.)

Automatic Voting Machine Corporation. (See Gustavson, Alvin N., assignor.)

Automatic Water Softener Company. (See Dotterweich, Andrew J., assignor.)

Automotive Fan & Bearing Co. (See Hollerith, Charles, assignor.)

Avery, Charles E., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Pull socket. 1,948,495; Feb. 27.

Avery, Clarence W., Detroit, Mich., assignor to The Murray Corporation of America. Barrel. 1,948,837; Feb. 27.

Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)

Bagley, Robert M., Haddonfield, N. J., assignor to The R. M. Hollingshead Co. Making soap solution. 1,949,264; Feb. 27.

Bailly, Marcel, Neuilly-sur-Seine, France. Starting device for internal combustion engines. 1,948,897; Feb. 27.

Bain, Robert, Collingwood, Victoria, Australia. Attaching top pieces to heels. 1,949,346; Feb. 27.

Baker, Brydon. (See Weber, S. L., Baker, and Jensen.)

Baker, Jonas E., Peabody, Kans. Corpse handling device. 1,948,611; Feb. 27.

Baker Perkins Company. (See Pointon, J. E., and Harber, assignors.)

Balcar, Frederick R., Elizabeth, N. J., assignor to Air Reduction Company, Inc., New York, N. Y. Luminescent tube. 1,949,069; Feb. 27.

Balke, Clarence W., Highland Park, assignor, by mesne assignments, to Ramet Corporation of America, North Chicago, Ill. Tool and making same. 1,948,489; Feb. 27.

Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Apparatus for supplying water to concrete mixers. 1,949,364; Feb. 27.

Ballard, Howard T., trustee, et al. (See Pratt, Harry P., assignor.)

Ballas, Peter. (See Henderson, Hurley N., assignor.)

Ballenger, E. G., et al. (See Grayson, Ralph V., assignor.)

Barker, Robert W., Philadelphia, Pa. Automatic machine for feeding and cutting sheet material. 1,948,641; Feb. 27.

Barnes, Gladeon M., U. S. Army, Hastings, Mich. Muzzle brake for guns. 1,948,496; Feb. 27.

Barnes, Gladeon M., U. S. Army, Hastings, Mich. Gun. 1,948,497; Feb. 27.
Barney, Freeman. (See Lee, J. E., and Barney.)
Barrett Company, The. (See Harvey, Edward W., assignor.)
Barrett Company, The. (See Yeager, Frank W., assignor.)
Barrett, George J. (See Robichaux, S., and Barrett.)
Barrett, George J., Houston, and S. Robichaux, Saratoga, Tex. Sample taking apparatus. 1,948,632; Feb. 27.
Barrett, Harry B., Los Angeles, Calif. Grinder attachment for brake relining machines. 1,949,070; Feb. 27.
Barrowman, Arthur H., Attleboro, Mass., assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Foldable buckle. 1,948,610; Feb. 27.
Barthelmes, K., Manufacturing Co. Incorporated. (See Barthelmes, Kurt W. H., assignor.)
Barthelmes, Kurt W. H., assignor to K. Barthelmes Manufacturing Co. Incorporated, Rochester, N. Y. Metal winding cone. 1,949,290; Feb. 27.
Barthelmes, Kurt W. H., assignor to K. Barthelmes Manufacturing Co. Incorporated, Rochester, N. Y. Metal winding bobbin. 1,949,291; Feb. 27.
Bash, Thomas B., Kansas City, Mo. Connecter. 1,948,838; Feb. 27.
Bateman, Arthur T. (See Emery, H., Irvine, and Bateman.)
Battle Creek Bread Wrapping Machine Company. (See Littlefield, Carl, assignor.)
Bauer, Bruno, Vienna, Austria. Steel skeleton for reenforced concrete structures. 1,948,691; Feb. 27.
Baughman, Guy L., Mulvane, Kans. Overhead valve oiler. 1,949,003; Feb. 27.
Baumgartner, Julius J. E., Portland, Oreg. Steam press for cellulose materials. 1,948,898; Feb. 27.
Baur, Arthur, Ennetbaden, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Valve. 1,949,365; Feb. 27.
Baur, Ottmar, assignor to Robert Bosch Aktiengesellschaft. Stuttgart, Germany. Fuel spraying nozzle. 1,948,557; Feb. 27.
Baxter, Harry J., Freeport, N. Y. Apparatus for filmcoating rolls and the like. 1,949,234; Feb. 27.
Bay Company, The. (See Dubamel, Daniel J., assignor.)
Beard, Joseph G., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Oscillator. 1,948,692; Feb. 27.
Beardsley, Charles E., Bethlehem, Conn., assignor to The Beardsley & Wolcott Mfg. Co. Toaster. 1,948,693; Feb. 27.
Beardsley & Wolcott Mfg. Co., The. (See Beardsley, Charles E., assignor.)
Beardsley & Wolcott Mfg. Co., The. (See Wolcott, F. E., and Lucia, assignors.)
Beatty, Ross J. (See Mosfelt, H. T., and Schagerholm, assignors.)
Becker, Albert W., Hartford, Conn. Windshield clearing device. 1,949,098; Feb. 27.
Behan, Thomas W., assignor to Nineteen Hundred Corporation, Binghamton, N. Y. Washing machine. 1,949,235; Feb. 27.
Behringer, Emil, New York, N. Y. Freezing apparatus. 1,949,265; Feb. 27.
Beisel, Emil J., Portchester, N. Y. Wind deflector. 1,948,642; Feb. 27.
Beitling, Rismark C., San Fernando, Calif. Electrical coil winding apparatus. 1,948,875; Feb. 27.
Below, Dr. & Kaulen Chemische Fabrik G. m. b. H. (See Well, Hans, assignor.)
Bell, Byron D., executor. (See Bell, Walter J.)
Bell, E. H. (See Willard, George T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Aiken, Charles B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Curtis, Austen M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lane, Cuthbert C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Olpin, Albert R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Steinberg, John C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Wilson, Ira G., assignor.)
Bell, Walter J., deceased, Los Angeles, Calif.; B. D. Bell, executor. Transparent prismoidal mirror. 1,949,138; Feb. 27.
Belmont Packing and Rubber Company, The. (See Restein, Jules, assignor.)
Bemis, Kenneth E., Glendale, Calif. Form for knockdown concrete structures. 1,948,486; Feb. 27.
Bendix Brake Company. (See Norton, Raymond J., assignor.)
Bendix, Frederick, and M. Bloch, San Francisco, Calif. Toaster. 1,948,978; Feb. 27.
Bendz, Waldemar I., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,948,684; Feb. 27.
Benn, Alonzo N., Chicago, Ill. Meat shaping and supporting device. 1,948,839; Feb. 27.
Benner, Harry P. (See Egloff, G., and Benner.)
Bereche, Ernest V., Flushing, N. Y. Indicating control system. 1,948,498; Feb. 27.
Berglund, Martin. (See Youlten, H., Lindqvist, and Berglund.)
Berry, George P., assignor to General Motors Research Corporation, Detroit, Mich. Steering mechanism. 1,948,487; Feb. 27.
Berry, Robert F., and R. L. Moon, Hanford, Calif. Gold separator. 1,948,781; Feb. 27.
Bertoglio and McTaggert Storage Company. (See Youlten, H., Lindqvist, and Berglund, assignors.)
Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for attaching heels to shoes. 1,948,499; Feb. 27.
Bertrand, Frederic E., East Lynn, Mass., assignor to United Sboe Machinery Corporation, Paterson, N. J. Abrasive tool. 1,948,643; Feb. 27.
Bethke, Harvey E., Milwaukee, Wis. Cigarette package. 1,949,139; Feb. 27.
Beurschgens, Lambertus, assignor, by mesne assignments, to Naamlooze Vannootschap "Morpheus", Leyden, Netherlands. Hospital or invalid bed. 1,949,035; Feb. 27.
Beutel, Robert J., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar transfer for enveloping and banding machines. 1,948,558; Feb. 27.
Beyer, Peter G. G., Copenhagen, Denmark. Cryptographic apparatus. 1,949,140; Feb. 27.
Bichler, Mrs. Dr. E., et al. (See Büchmuller, Alfred, assignor.)
Biddle, Farrell D., assignor to Pierce Governor Company, Anderson, Ind. Governor device for engines. 1,948,840; Feb. 27.
Bielfeldt, Raymond W., Thornton, Ill. Fractionating apparatus. 1,948,500; Feb. 27.
Bigelow-Sanford Carpet Co. (See Shaw, J. F., Donnelly, and Johnston, assignors.)
Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubricating installation. 1,948,501; Feb. 27.
Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Chassis lubrication. 1,948,502; Feb. 27.
Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Flow control fitting. 1,948,503; Feb. 27.
Bird, F. M., et al. (See Grayson, Ralph V., assignor.)
Bird, John C., assignor to John Wyeth & Brother, Incorporated, Philadelphia, Pa. Adsorbent. 1,949,266; Feb. 27.
Black-Clawson Company, The. (See Kutter, Herman L., assignor.)
Blackhawk Manufacturing Company. (See Pfauser, Edward M., assignor.)
Blaho, Rudolph, assignor to The Byrne Manufacturing Company, Cleveland, Ohio. Machine for and process of fabricating container walls and accessories thereon. 1,948,488; Feb. 27.
Blaho, Rudolph, assignor to The Byrne Manufacturing Company, Cleveland, Ohio. Machine for and process of fabricating container walls and accessories thereon. 1,948,490; Feb. 27.
Blair, William H., Janesville, Wis. Braking or antiskidding device for automotive vehicles. 1,949,071; Feb. 27.
Blaylock, Arthur G., Cleveland, Ohio. Indicating device. 1,949,141; Feb. 27.
Bloch, Max. (See Bendix, F., and Bloch.)
Blood, Harold L., assignor to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,948,899; Feb. 27.
Blood, Howard E., and O. A. Brandel, assignors to Norge Corporation, Detroit, Mich. Water cooler. 1,948,644; Feb. 27.
Boardman, George P., Fillmore, Calif. Breeding jacket. 1,949,004; Feb. 27.
Bodle, Virgil H. (See Glidden, A. A., and Bodle.)
Boeing Airplane Company. (See Butler, Leo M., assignor.)
Boettcher, Gustav A., Jamaica, N. Y. Multineedle sewing machine. 1,948,876; Feb. 27.
Bogopolsky, Jacques, Geneve-Acacias, Switzerland. Apparatus for cinematographic projection. 1,948,900; Feb. 27.
Bohmker, John C., Kankakee, Ill. Electrical release for planters. 1,948,559; Feb. 27.
Bohn Aluminum & Brass Corporation. (See Emery, H., Irvine, and Bateman, assignors.)
Bommer, Fred W., Winchester, assignor, by mesne assignments, to Sibley-Pym Corporation, Lynn, Mass. Winding machine. 1,949,236; Feb. 27.
Bond Electric Corporation. (See Britsch, Otto C., assignor.)
Bonhôte, Gérald, and C. Apotheker, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azodyestuffs. 1,949,142; Feb. 27.
Bonney-Floyd Company, The. (See Edmunds, Glenn E., assignor.)
Boom, Milton A. (See Carlson, G. E., Larson, and Swenson, assignors.)
Borneman, George, Millville, N. J. Funnel guide and making it. 1,948,560; Feb. 27.
Borton, George W., New Lisbon, N. J., assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Crushing machinery. 1,948,504; Feb. 27.
Bosch, Robert, Aktiengesellschaft. (See Baur, Ottmar, assignor.)
Bosch, Robert, Aktiengesellschaft. (See Stockmeyer, Friedrich W., assignor.)
Boswau, Hans P., assignor to The North Electric Manufacturing Company, Galion, Ohio. Supervisory system. 1,948,743; Feb. 27.

Bouchard, Blanche E. (See Du Grenier, Francis C., assignor.)
Bouchard, Guy C., Kalamazoo, Mich. Inclinometer for airplanes. 1,948,612; Feb. 27.
Bouwers, Albert, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. X-ray tube. 1,949,005; Feb. 27.
Bouwers, Albert, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, The Netherlands. Electric discharge tube. 1,949,347; Feb. 27.
Bouwers, Albert, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electric installation. 1,949,348; Feb. 27.
Bower, James A., assignor to The National Tile Company, Anderson, Ind. Tile width or length measuring and marking machine. 1,948,782; Feb. 27.
Boylan, David W., San Francisco, Calif., H. Kramer, Tulsa, Okla., and E. Jansen, assignors to General Paint Corporation, San Francisco, Calif. Coupling for pipe-wrapping machines. 1,948,956; Feb. 27.
Bradford Supply Company. (See Gibson, Jesse G., assignor.)
Bradner, Donald B., Oxford, assignor to The Champion Coated Paper Company, Hamilton, Ohio. Web tensioning apparatus. 1,949,237; Feb. 27.
Branchu, Paul J. (See Gerin, G., Branchu, and Teszner.)
Brandel, Orrin A. (See Blood, H. E., and Brandel.)
Brassert, H. A., & Company. (See Brassert, Herman A., assignor.)
Brassert, H. A., & Company. (See Brassert, H. A., Wille, and Zimmermann, assignors.)
Brassert, Herman A., assignor to H. A. Brassert & Company, Chicago, Ill. Method and apparatus for the production of molten steel. 1,948,695; Feb. 27.
Brassert, Herman A., assignor to H. A. Brassert & Company, Chicago, Ill. Manufacture of metals. 1,948,697; Feb. 27.
Brassert, Herman A., F. Wille, and P. Zimmermann, assignors to H. A. Brassert & Company, Chicago, Ill. Vertical shaft furnace. 1,948,696; Feb. 27.
Bray, John L., La Fayette, Ind. Coating iron and steel. 1,948,505; Feb. 27.
Bridges, Edward G. (See Lynch, J. W., and Bridges.)
Briggs Manufacturing Company. (See Ross, F. N., and Johnson, assignors.)
Bristol Tramways & Carriage Company Limited, The. (See Redrup, Charles B., assignor.)
Britsch, Otto C., New York, N. Y., assignor, by mesne assignments, to Bond Electric Corporation, Jersey City, N. J. Flash light. 1,948,613; Feb. 27.
Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Apparatus for operating on wound webs. 1,949,238; Feb. 27.
Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Relative speed indicator. 1,949,239; Feb. 27.
Brockway, Carl P., Ridgewood, assignor to World Bestos Corporation, Paterson, N. J. Apparatus for forming and curing brake linings. 1,948,491; Feb. 27.
Brodie, Ralph N., Company. (See Granberg, Albert J., assignor.)
Brombach, Theodore A., San Francisco, Calif. Orthoptic training device. 1,948,901; Feb. 27.
Bromley, Frank T. (See Darling, P. E., and Bromley.)
Brown Bag Filling Machine Company, The. (See Greenlaw, Burpee D., assignor.)
Brown, Clifford K., Duluth, Minn. Smoking pipe. 1,948,645; Feb. 27.
Brown Company. (See Schur, Milton O., assignor.)
Brown Company. (See Schur, M. O., Hoos, and Morris, assignors.)
Brown, David, & Sons (Huddersfield), Limited. (See Merritt, Henry E., assignor.)
Brown, Edmund K., assignor to The Torrington Company, Torrington, Conn. Sewing machine needle. 1,949,349; Feb. 27.
Brown, Edmund K., assignor to The Torrington Company, Torrington, Conn. Making sewing machine needles. 1,949,350; Feb. 27.
Browning, Artie J., assignor of one-fourth to F. M. Scarlett and one-fourth to T. B. Gamble, Brunswick, Ga. Protector for turpentine collecting receptacles. 1,948,783; Feb. 27.
Brubaker, Walter S., assignor to Granberg Meter Corporation, San Francisco, Calif. Meter adjusting means. 1,949,006; Feb. 27.
Bruenn, Alexander, New York, N. Y. Preparing warp. 1,948,646; Feb. 27.
Brunsviga Maschinenwerke Grimme Natalis & Co. A. G. (See Coxhead, R. C., and Norton, assignors.)
Brunt, Thomas B., Philadelphia, Pa. Air conditioning apparatus. 1,948,647; Feb. 27.
Bryan, William J., jr. (See Thomas, Richard, assignor.)
Buchmüller, Alfred, Cons, near Trier, assignor of forty per cent to P. Zettelmeyer, Cons, twenty per cent to Mrs. M. Weber, twenty per cent to Mrs. Dr. E. Bichler, Trier, twenty per cent to Mrs. Dr. H. Corsten, Berlin-Lichterfelde, Germany. Milling cutter. 1,948,648; Feb. 27.
Buckeye Aluminum Company, The. (See Porter, Kirk E., assignor.)
Buckeye Blower Company. (See Ewald, Warren, assignor.)
Buckley, James R., and C. A. Doran, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of esters of organic acids. 1,949,267; Feb. 27.
Buckwell, Arthur W., Quincy, assignor to Ginn and Company, Boston, Mass. Copy preparing machine. 1,949,086; Feb. 27.
Budd, Edward G., Manufacturing Company. (See Tarbox, John P., assignor.)
Buholzer, Joseph, assignor of one-fifth to P. J. Huttenlocher, Nueva Gerona, Isla de Pinos, Cuba. Camera. 1,949,351; Feb. 27.
Buma, Yukio, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 91,602; Feb. 27.
Bunbury, Hugh M., and W. J. S. Naunton, Prestwich, and K. W. Palmer, Fartown, Huddersfield, England, assignors to Imperial Chemical Industries, Limited. Preservation of oxidizable organic compounds. 1,949,240; Feb. 27.
Buquor, Adolph P., assignor to Martin-Parry Corporation, York, Pa. Gun carriage. 1,949,352; Feb. 27.
Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Dual wheel. 1,948,614; Feb. 27.
Burgess, C. F., Laboratories, Inc. (See Schorger, Arlie W., assignor.)
Burman, Olof S., Minneapolis, Minn. Leg bracket for laundry tubs. 1,949,099; Feb. 27.
Burman, Olof S., Minneapolis, Minn. Laundry tub and soap tray. 1,949,353; Feb. 27.
Burnside, Edgehill T., Shelbyville, Ind. Gravel washing machine. 1,949,354; Feb. 27.
Butler, Leo M., assignor to Boeing Airplane Company, Seattle, Wash. Alignment jig. 1,949,007; Feb. 27.
Byrne Manufacturing Company, The. (See Blaho, Rudolph, assignor.)
Byrnes, Clarence P., trustee. (See James, Joseph H., assignor.)
Caine, Charles H., Chicago, Ill., assignor, by mesne assignments, to Tung-Sol Lamp Works Inc. (Central Warehouse Division). By-pass condenser. 1,948,506; Feb. 27.
Calco Chemical Company. (See Jeffcott, Robert C., assignor.)
California Packing Corporation. (See Ash, Charles S., assignor.)
Campbell Metal Window Corporation. (See Sargent, Allston, assignor.)
Cane, Gordon F., assignor, by mesne assignments, to T. Thompson, San Francisco, Calif. Bedding clamp. 1,948,841; Feb. 27.
Canister Company, The. (See Garfein, Ralph T., assignor.)
Carbide and Carbon Chemicals Corporation. (See Carruthers, Thomas F., assignor.)
Carbide and Carbon Chemicals Corporation. (See Cox, Henry L., assignor.)
Carbide & Carbon Chemicals Corporation. (See Young, C. O., and Perkins, assignors.)
Cardot, Jean, Bagneaux sur Loing, France, assignor, by mesne assignments, to Corning Glass Works, Corning, N. Y. Apparatus for the drawing of tubular bodies of glass and the like. 1,949,037; Feb. 27.
Cardwell Westinghouse Company, et al. (See O'Connor, John F., assignor.)
Carleton, Oscar M., Watertown, Mass. Leveling device. 1,948,508; Feb. 27.
Carley, Leonard R., assignor to The Patent Button Company, Waterbury, Conn. Button. Des. 91,603; Feb. 27.
Carlson, George E., O. P. Larson, and S. R. Swenson, assignors to Milton A. Boom, doing business as Mechanical Research Company, Chicago, Ill. Rotary toothbrush. 1,949,241; Feb. 27.
Carlson, Raymond A., assignor to Rockford Drilling Machine Co., Rockford, Ill. Spindle adjustment. 1,948,507; Feb. 27.
Carlton, Al. A., et al. (See Wilson, Ernest M., assignor.)
Carlton, Elgan H., et al. (See Wilson, Ernest M., assignor.)
Carmichael, David M., Maplewood, N. J., assignor to The Atlantic Lithographic & Printing Company, New York, N. Y. Floor display stand. 1,948,902; Feb. 27.
Carroll, Charles J. (See Faber, L. D., and Carroll.)
Carrothers, Charles G. (See Kapp, E. O., and Carrothers.)
Carruthers, Thomas F., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Preparation of dialkyl sulphates. 1,949,366; Feb. 27.
Carter, Herschel B., Auburn, Ky. Bush and weed destroying cultivator. 1,948,569; Feb. 27.
Casler, Herman, Canastota, N. Y., assignor, by mesne assignments, to The Lindstrom Tool & Toy Company, Inc., Bridgeport, Conn. Missile projector for game boards. 1,948,784; Feb. 27.
Catland, Alfred C. (See Howard, J. H., and Catland.)
Caven, Trevor M., New York, assignor, by mesne assignments, to Corning Glass Works, Corning, N. Y. Refractory article. 1,949,038; Feb. 27.
Celanese Corporation of America. (See Dreyfus C., and Schneider, assignors.)
Certain-teed Products Corporation. (See Codwise, Philip W., assignor.)
Chain Belt Company. (See Ball, Charles F., assignor.)
Challenge Machinery Company, The. (See Lee, J. E., and Barney, assignors.)
Chambers, Isaac M. (See Showers, L. M., jr., and Chambers.)

Champion Coated Paper Company, The. (See Bradner, Donald B., assignor.)
Chance, Florence H., et al., executors. (See Chance, Thomas M.)
Chance, Thomas M., deceased, Philadelphia, Pa., F. H. Chance and Provident Trust Company of Philadelphia, executors. Apparatus for separating materials of different specific gravities. 1,949,242; Feb. 27.
Charman, Walter M., and G. A. Peterson, Cleveland Heights, assignors to The Ferro Engineering Company, Cleveland, Ohio. Hot top. 1,949,292; Feb. 27.
Chase Appliance Corporation. (See Colbie, Gus L., assignor.)
Chemische Fabrik Kalk, Gesellschaft mit beschrankter Haftung. (See Oehme, Hermann, assignor.)
Chicago Flexible Shaft Company. (See LaChance, Leander H., assignor.)
Chicago Railway Equipment Company. (See McConkey, Thomas C., assignor.)
Chicago Telephone Supply Company. (See Pearson, George, assignor.)
Chicago Telephone Supply Company. (See Schellenger, Newton C., assignor.)
Chilton, Roland Ridgewood, assignor to Eclipse Aviation Corporation, East Orange, N. J. Electrical mechanism. 1,949,367; Feb. 27.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Tool holder. 1,948,698; Feb. 27.
Churchill Cabinet Company. (See Gullicksen, Ole, assignor.)
Churchill Machine Tool Company, The. (See Asbridge, Harry H., assignor.)
Cincinnati Bickford Tool Company, The. (See Klausmeyer, D. C., and Sosa, assignors.)
Clark Equipment Company. (See Lapsley, Robert, assignor.)
Clark Equipment Corporation. (See Burger, Frederick W., assignor.)
Clark, J. R., Company. (See Kalgren, John E., assignor.)
Clark, John W., New York, N. Y. Package of expansible material and wrapper therefor. 1,948,615; Feb. 27.
Clark, Leora O., Oakland, Calif. Mounting a sea growth specimen. 1,949,268; Feb. 27.
Clarke, John H., Watertown, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Making molded articles from plastic materials. 1,949,072; Feb. 27.
Clausen, Herman W., assignor of one-half to P. C. Clausen, Los Angeles, Calif. Apparatus for receiving and dispensing blocks of ice. 1,949,040; Feb. 27.
Clausen, Herman W. and P. C., Los Angeles, Calif. Ice-dispensing apparatus. 1,949,039; Feb. 27.
Clausen, Peter C. (See Clausen, Herman W., assignor.)
Clausen, Peter C. (See Clausen, Herman W. and P. C.)
Clavel, René, Basel, Switzerland. Weighting natural silk. 1,949,143; Feb. 27
Clements Mfg. Co. (See Marshall, Irl H., assignor.)
Cleveland Pneumatic Tool Company, The. (See Wallace, John F., assignor.)
Cleveland Tractor Company, The. (See Kinney, Grayson T., assignor.)
Cline, Andrew F., Hayward, Wis. Moisture cup heat control apparatus for creameries. 1,949,355; Feb. 27.
Cloer, Venus U. (See Sims, W. F., and Cloer.)
Codwise, Philip W., Kenmore, assignor to Certain-teed Products Corporation, New York, N. Y. Weather resisting material. 1,948,979; Feb. 27.
Coe Manufacturing Company, The. (See Moore, Richard C., assignor.)
Coffey, Barton H., Elizabeth, N. J., assignor to The Cooling Tower Co., Inc., New York, N. Y. Cooling tower. 1,948,980; Feb. 27.
Colbie, Gus L., Brooklyn, assignor to Chase Appliance Corporation, New York, N. Y. Anticreeping device for railway rails. 1,948,561; Feb. 27.
Colbie, Gus L., Brooklyn, assignor to Chase Appliance Corporation, New York, N. Y. Metal crosstie. 1,948,562; Feb. 27.
Cole, Charles M., South Weymouth, assignor to Wheeler Reflector Company, Boston, Mass. Receptacle head for electric lights. 1,949,008; Feb. 27.
Colgin, Rufus A., assignor to W. C. Norris, Tulsa, Okla. Pull rod connection. 1,949,368; Feb. 27.
Collins, A. M., Manufacturing Company. (See Collins, Henry H., assignor.)
Collins, Henry H., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Roll shade. 1,949,356; Feb. 27.
Colt's Patent Fire Arms Manufacturing Co. (See Conner, Benjamin F., assignor.)
Compagnie Generale de Telegraphie sans Fil. (See Villem, R., and Aubert, assignors.)
Cone, Carroll, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for producing sheet glass. 1,948,563; Feb. 27.
Conklin, Charles A., 3d. (See Abbott, C. F., and Conklin.)
Conner, Benjamin F., Wethersfield, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Bracelet or similar article. Des. 91,604; Feb. 27.
Conner, Benjamin F., Wethersfield, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Bracelet or similar article. Des. 91,605; Feb. 27.
Conner, Benjamin F., Wethersfield, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Button. Des. 91,606; Feb. 27.
Conner, Benjamin F., Wethersfield, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Button. Des. 91,607; Feb. 27.
Conner, Benjamin F., Wethersfield, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Button. Des. 91,608; Feb. 27.
Consolidated Ashcroft Hancock Company. (See Eplett, Albert D., assignor.)
Continental Can Company. (See Cross, Jack M., assignor.)
Continental Ceramics Corporation. (See Hellmann, Louis E., assignor.)
Continental Paper & Bag Corp. (See Falk, Theodore S., assignor.)
Cooling Tower Co. Inc., The. (See Coffey, Barton H., assignor.)
Corcoran, Thomas D., and L. A. Wolff, Los Angeles, Calif. Tile tying runner. 1,948,510; Feb. 27.
Cornell, Edward S., jr., Larchmont, N. Y. Forming a fitting. 1,948,584; Feb. 27.
Cornell, Edward S., jr., Larchmont, N. Y. Forming sheet metal pipe fittings. 1,949,197; Feb. 27.
Corning Glass Works. (See Caven, Trevor M., assignor.)
Corning Glass Works. (See Cardot, Jean, assignor.)
Correns, Erich, and A. Möhring, Elberfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Improving acyl cellulose. 1,948,903; Feb. 27.
Corsten, (Mrs.) Dr. H. (See Büchmuller, Alfred, assignor.)
Corthell, Robert N., Auburn, Maine. Thread supplying adjunct. 1,949,144; Feb. 27.
Cotton, William J., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Production of alpha naphthol. 1,949,243; Feb. 27.
Cottrell, C. B., & Sons Company. (See Greenway, Richard J., assignor.)
Coupland, Richard C., U. S. Army, Norfolk, Va. Discharger. 1,948,511; Feb. 27.
Covert, Harry W., Jamestown, N. Y. Washing machine. 1,948,957; Feb. 27.
Cox, Albert P., assignor of one-half to Jeff McInturff, Young, Ariz. Fence tool. 1,948,904; Feb. 27.
Cox, Charles H., Philadelphia, Pa. Stadium seat. 1,949,113; Feb. 27.
Cox, Henry L., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Preparation of dialkyl sulphates. 1,949,369; Feb. 27.
Coxhead, Ralph C., New York, N. Y., and C. W. Norton, Stratford, Conn., assignors, by mesne assignments, to Brunsviga Maschinenwerke Grimme Natalis & Co., A. G., Brunswick, Germany. Adding machine frame construction. 1,948,958; Feb. 27.
Croce, Michele, Boyer Road, Cheltenham, Pa., assignor, by mesne assignments, to Sloane-Blabon Corporation, New York, N. Y. Coating material. 1,948,959; Feb. 27.
Crocker-Wheeler Electric Manufacturing Company. (See Spencer, Millard C., assignor.)
Cross, Jack M., assignor to Continental Can Company, Inc., New York, N. Y. Dredging container. 1,949,357; Feb. 27.
Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Process and apparatus for the conversion of petroleum hydrocarbons. 1,948,492; Feb. 27.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Pressure gauge. 1,949,293; Feb. 27.
Curran, John V., Toronto, Ontario, Canada. Film editor. 1,948,842; Feb. 27.
Curtis, Austen M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Duplex communication system. 1,948,981; Feb. 27.
Curtiss, Glenn H., deceased, Country Club Estates, Fla.; L. P. Curtiss, sole executrix and trustee. Motor vehicle. 1,948,744; Feb. 27.
Curtiss, Glenn H., deceased, Hammondsport, N. Y.; L. P. Curtiss, sole executrix and trustee. Motor vehicle. 1,948,745; Feb. 27.
Curtiss, Lena P., sole executrix and trustee. (See Curtiss, Glenn H.)
Cutter Laboratory, The. (See Cutter, Robert K., assignor.)
Cutter, Robert K., assignor to The Cutter Laboratory, Berkeley, Calif. Hypodermic syringe. 1,948,982; Feb. 27.
Dabney, Samuel B., Houston, Tex. Pipe. 1,948,649; Feb. 27.
Dalén, Gustaf, Lidingo, assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden. Grate structure for burning solid fuel. 1,948,699; Feb. 27.
Dallas, Charles D., Chicago, Ill., assignor to Revere Copper & Brass Incorporated, Rome, N. Y. Lacquering machine. 1,948,843; Feb. 27.
Daniel, Everett, Moultrie, Ga. Crossing gate. 1,948,512; Feb. 27.
Danielczuk, Anthony, Detroit, Mich. Weed resisting fish lure. 1,948,988; Feb. 27.
Daniels, Eddie A., Kannapolis, N. C. Loom. 1,948,960; Feb. 27.
D'Ardenne, Walter H., Jenkintown Manor, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Automobile door construction. 1,949,269; Feb. 27.
Darling, Frank L., Baltimore, Md. Vessel and means for removing caps therefrom. 1,948,513; Feb. 27.
Darling, Paul E., and F. T. Bromley, Lansing, Mich. Gear transmission. 1,949,294; Feb. 27.

Darrach, Bradford, New York, assignor to Laminated Shim Co., Inc., Long Island City, N. Y. Shim. 1,949,114; Feb. 27.
Davis, Enoch A., assignor to E. Riffe, Marietta Township, Whatcom County, Wash. Plow. 1,948,961; Feb. 27.
Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Garment or ironing press. 1,949,115; Feb. 27.
Davis, William N., and J. T. Rutherford, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Denatured alcohol and ester. 1,949,244; Feb. 27.
Dawes, Robert T., Hudson, Mass. Elastic braid. 1,948,844; Feb. 27.
Day, Roland B., Palos Verdes Estates, Calif., assignor to Universal Oil Products Company, Chicago, Ill. Sweetening gasoline. 1,948,565; Feb. 27.
Dean, Alvin F., New Orleans, La. Traffic signal. 1,949,295; Feb. 27.
Dean, Frank E. (See Herring, G. E., and Dean.)
De Botelho, Martin, New York, N. Y. Perfume bottle and base ensemble. Des. 91,609; Feb. 27.
Decalite Company, The (See Stockton, McKinley, assignor.)
Decker, Ammiel F., Pelham, N. Y. Picture puzzle. 1,948,962; Feb. 27.
Decker, George, assignor to The Philad Company, Cleveland, Ohio. Apparatus for hair waving. 1,949,370; Feb. 27.
Deere & Company. (See Anderson, Ralph L., assignor.)
De la Cierva, Juan, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft with rotative wings. 1,948,514; Feb. 27.
De la Cierva, Juan, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft with rotative wings. 1,949,296; Feb. 27.
De Lagabbe, Edmond, Paris, France. Exhaust silencer. 1,949,041; Feb. 27.
De Liso, Vincent, Astoria, Long Island, assignor to Palter-De Liso, Inc., New York, N. Y. Shoe. Des. 91,610; Feb. 27.
De Liso, Vincent, Astoria, Long Island, assignor to Palter-De Liso, Inc., New York, N. Y. Shoe. Des. 91,611; Feb. 27.
De Liso, Vincent, Astoria, Long Island, assignor to Palter-De Liso, Inc., New York, N. Y. Shoe. Des. 91,612; Feb. 27.
De Liso, Vincent, Astoria, Long Island, assignor to Palter-De Liso, Inc., New York, N. Y. Shoe. Des. 91,613; Feb. 27.
De Liso, Vincent, Astoria, Long Island, assignor to Palter-De Liso, Inc., New York, N. Y. Shoe. Des. 91,614; Feb. 27.
De Liso, Vincent, Astoria, Long Island, assignor to Palter-De Liso, Inc., New York, N. Y. Shoe. Des. 91,615; Feb. 27.
De Luca, Ettore, assignor to J. H. Robertson, London, England. Synchronous driving device. 1,949,145; Feb. 27.
De Muth, Charles J., assignor, by mesne assignments, to Jones, McDuffee & Stratton Corporation, Boston, Mass. Food servicer. 1,948,937; Feb. 27.
Derby, Ira H., and H. R. Horner, assignors to Peter C. Reilly, Indianapolis, Ind. Carbonizing solid carbonizable material. 1,948,515; Feb. 27.
De Right, Elon J., Kansas City, Mo. Cable clamp. 1,948,845; Feb. 27.
De Roysancour, Otto G. J. S., Breda, Netherlands. Carburetor. 1,948,700; Feb. 27.
Des Roches, Philip W., Detroit, Mich. Electric refrigerant compressor. 1,948,846; Feb. 27.
Detroit Edison Company, The. (See Walker, James H., assignor.)
Detroit Lubricator Company. (See Weber, Walter H., assignor.)
Deutsche Gold- und Silber-Scheideanstalt, vormals Roessler. (See Leuser, Josef, assignor.)
De Vault, Ralph P., Villa Park, assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill. Light ray projection apparatus. 1,948,516; Feb. 27.
De Vleg, Gerard A., Rockford, Ill. Reamer. 1,949,116; Feb. 27.
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Dillman, Earnest J., Detroit, Mich., assignor to American Radiator Company, New York, N. Y. Control device. 1,949,371; Feb. 27.
Dimmick, Ralph B., Butler, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio. Device for dusting metallic sheets. 1,949,270; Feb. 27.
Dinkler, Walter. (See Pier, M., Wissel, and Dinkler.)
Dintilhac, Jean G., assignor to Society "Yacco S. A. F.", Paris, France. Thermostatic radiator control. 1,949,009; Feb. 27.
District of Columbia Paper Manufacturing Company. (See Smith, Daniel A., assignor.)
Dodge, Adiel Y., South Bend, Ind. Variable speed transmission. 1,948,847; Feb. 27.
Dodge, Adiel Y., South Bend, Ind. Mass inertia transmission. 1,949,042; Feb. 27.
Doehler Die-Casting Co. (See Morin, Louis H., assignor.)
Doering, Albert, Waterloo, Wis. Peat machine. 1,949,146; Feb. 27.
Dolan, David J., Cleveland Heights, Ohio. Multiple cylinder engine construction. 1,949,043; Feb. 27.
Dominion Distilleries Inc. (See Simon, Clarence K., assignor.)
Donaldson Company. (See Lowther, Wilfred W., assignor.)
Dondelinger, Nicholas, Fostoria, Ohio. Truss. 1,948,785; Feb. 27.
Donnelly, James M. (See Shaw, J. F., Donnelly, and Johnston.)
Doran Carrol A. (See Buckley, J. R., and Doran.)
Dorrell, Clarence F., Treece, Kans. Barber's chair. 1,948,786; Feb. 27.
Dotterweich, Andrew J., assignor to Automatic Water Softener Company, Pittsburgh, Pa. Water-softening apparatus. 1,949,044; Feb. 27.
Dougherty, Robert A., San Francisco, Calif. Sanitary container. 1,949,010; Feb. 27.
Dove, Leonard P., Hinsdale, Ill. Dispersed pigment from organic carbonaceous earth and producing the same. 1,949,147; Feb. 27.
Dow Chemical Company, The. (See Heath, Sheldon B., assignor.)
Drake, Augustus W., Hazleton, Pa. Insect swatter. Des. 91,616; Feb. 27.
Drake, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Machine for sealing laminated glass. 1,948,566; Feb. 27.
Draper, Charles D., assignor to A. P. Grommesch, Seattle, Wash. Treating an Irish potato having the skin removed with fumes of burning sulphur to bleach, preserve, and to prevent discoloration. 1,948,877; Feb. 27.
Dreyfus, Camille, New York, N. Y., and G. Schneider, Montclair, N. J., assignors to Celanese Corporation of America. Treatment of derivatives of cellulose. 1,948,517; Feb. 27.
Droll, Joseph W., Chicago, and A. H. Olson, Evanston, assignors to Droll Patents Corporation of Delaware, Chicago, Ill. Mattress tufting machine. 1,949,148; Feb. 27.
Droll Patents Corporation of Delaware. (See Droll, J. W., and Olson, assignors.)
Duckworth, Nevin H., Davao, P. I., assignor to International Harvester Company. Machine for splitting abaca stalks. 1,948,905; Feb. 27.
Dugan, Peter J., Tuckahoe, N. Y., assignor of one-half to R. M. Sypher, Closter, N. J. Signal system for dumb-waiters and the like. 1,949,245; Feb. 27.
DuGrenier, Francis C., assignor of one-half to B. E. Bouchard, Haverhill, Mass. Coin-controlled dispensing machine. 1,948,650; Feb. 27.
Duhamel, Daniel J., Milford, assignor to The Bay Company, Bridgeport, Conn. Surgical bandage. 1,949,271; Feb. 27.
Dukes, Guy C., Kannapolis, N. C. Siphon system for slashers. 1,948,963; Feb. 27.
Dunbar, Howard W., assignor to Norton Company, Worcester, Mass. Grinding machine having a motor driven wheel spindle. 1,948,848; Feb. 27.
Duner Company. (See Duner, John C., assignor.)
Duner, John C., assignor to Duner Company, Chicago, Ill. Water closet. 1,949,246; Feb. 27.
Dunford, George B., St. Louis, Mo. Flowable coating composition. 1,948,906; Feb. 27.
Dunlap, Marshall N., Chicago, Ill., assignor of one-half to A. Molden, Sioux City, Iowa. Saucepan lid. 1,948,849; Feb. 27.
Dunlop, James, Park Ridge, Ill., assignor to Westinghouse Electric Elevator Company. Elevator safety device. 1,948,746; Feb. 27.
Dunlop, James, Park Ridge, Ill., assignor to Westinghouse Electric Elevator Company. Elevator-guide-rail lubricator. 1,948,747; Feb. 27.
Du Pont, E. I., de Nemours & Company. (See Buckley, J. R., and Doran, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hucks, Robert T., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hunt, J. K., and Latham, assignors.)
Du Pont, E. I., de Nemours & Company. (See Woodhouse, John C., assignor.)
Du Pont, Francis J., Wilmington, Del. Apparatus for recovering material used in gravity separation. 1,949,117; Feb. 27.
Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation Wilmington, Del. Car construction. 1,948,787; Feb. 27.
Earl, Schuyler H. (See Gleason, J. E., and Earl.)
Earley, Martin A., St. Paul, Minn. Typewriter attachment for desks. 1,949,118; Feb. 27.
Eckert, Wilhelm. (See Greune, H., and Eckert.)
Eckhard, William K., Dunellen, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., Irving Trust Company, receivers. Printing machine. 1,948,651; Feb. 27.
Eclipse Aviation Corporation. (See Chilton, Roland, assignor.)
Eclipse Aviation Corporation. (See Havill, Clinton H., assignor.)
Eclipse Aviation Corporation. (See Nardone, Romeo M., assignor.)
Eddy, Charles F. A., New London, Conn. Signal device. 1,949,297; Feb. 27.

Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Brake operating mechanism. 1,948,852; Feb. 27.

Edson, Bert, Pawtucket, R. I., assignor to New England Lace Mills, Inc., New York, N. Y. Lace. Des. 91,617; Feb. 27.

Eggert, Joseph. (See Jaeger, G., and Eggert.)

Egli, Eugen, Winterthur, Switzerland. Compressor. 1,948,907; Feb. 27.

Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for cracking hydrocarbon oils to produce light oils. 1,948,567; Feb. 27.

Ehrie, John H., Minneapolis, Minn. Alarm system. 1,948,850; Feb. 27.

Eisleb, Otto, Hofheim-on-the-Taunus, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Alkylolamine-derivatives and preparing them. 1,949,247; Feb. 27.

Electric Storage Battery Company, The. (See Graf, Ernest, assignor.)

Electrolock Manufacturing Company, The. (See Kulicke, Frederick W., assignor.)

Elliott-Fisher Company. (See Kurowski, Alfred G. F., assignor.)

Elliott, Robert A., Peoria, Ill. Indicator. 1,948,493; Feb. 27.

Ellis, Alvarado L. R., Swampscott, Mass. assignor to General Electric Company. Vacuum mounted oscillator. 1,949,149; Feb. 27.

Ellis, Charles E., jr., Mahwah, N. J., assignor, by mesne assignments, to Westinghouse Electric Elevator Company, Chicago, Ill. Elevator-dispatching system. 1,948,748; Feb. 27.

Emery, Howard, A. Irvine, and A. T. Bateman, assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich. Semipermanent molding apparatus. 1,948,653; Feb. 27.

Emory, Francis F., Leominster, Mass. Oil filter. 1,948,654; Feb. 27.

Englund, Lee T., et al. (See King, George W., assignor.)

Ensign Carburetor Co. (See Ensign, Roy F. and P. W., assignors.)

Ensign, Paul W. (See Ensign, Roy F. and P. W.)

Ensign, Roy F. and P. W., San Marino, assignors to Ensign Carburetor Co., Ltd., Huntington Park, Calif. Carburetor and fuel converter. 1,948,702; Feb. 27.

Eplett, Albert D., Bridgeport, Conn., assignor to Consolidated Ashcroft Hancock Company, New York, N. Y. Safety valve. 1,949,150; Feb. 27.

Erickson, Erick. (See Vaughan, H. A., Olson, and Erickson.)

Ericson, Richard, J. S. Offutt, Chicago, Ill., and J. R. Parsons, Hendersonville, N. C., assignors to United States Gypsum Company, Chicago, Ill. Ceramic acoustical material. 1,948,878; Feb. 27.

Eriksson, Erik J., Duluth, Minn. Metal snow fence. 1,948,655; Feb. 27.

Evans, Carol L., Tipton, Calif. Door pull and latch. 1,948,908; Feb. 27.

Evans, Robert D., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating system. 1,948,749; Feb. 27.

Evans, Robert D., Swissvale, and H. C. Nycum, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating system. 1,948,750; Feb. 27.

Evans, William H., Bridgeport, Conn. Flexible ventilating tubing or the like. 1,948,909; Feb. 27.

Everett, Edward A., Long Island City, N. Y. Lightning arrester. 1,948,701; Feb. 27.

Ewald, Warren, assignor, by mesne assignments, to Buckeye Blower Company, Columbus, Ohio. Unit heater and ventilator control system. 1,948,494; Feb. 27.

Ewer, Frank R., Modesto, Calif. Variable speed transmission. 1,948,656; Feb. 27.

Fabel, George S., Trenton, N. J., assignor to Southern Asbestos Company, Charlotte, N. C. Making heat insulating tape. 1,949,298; Feb. 27.

Faber Engineering Company. (See Faber, L. D., and Carroll, assignors.)

Faber, Leon De R., and C. J. Carroll, assignors to Faber Engineering Company, Philadelphia, Pa. Treating textile materials and the like. 1,948,568; Feb. 27.

Fadely, James M., assignor to Warner Gear Company, Muncie, Ind. Clutch device. 1,949,385; Feb. 27.

Fader, Walter A. (See Francis, L. M., Jeffers, and Fader.)

Fahey, John T., Oil City, Pa. Gate valve. 1,949,011; Feb. 27.

Fahrenwald, Frank A., Chicago, Ill. Gunsight reticule adjustment means. 1,949,100; Feb. 27.

Fahrenwald, Frank A., Chicago, Ill. Disk mounting for furnace conveyer shafts. 1,949,386; Feb. 27.

Fairbanks, Morse & Co. (See Heath, William C., assignor.)

Fairbanks, Morse & Co. (See Reis, Curt F., assignor.)

Fairweather, David A. W., and J. Thomas, assignors to Scottish Dyes, Limited, Grangemouth, Scotland. Sulphuric esters of the anthraquinone series and process suitable for making the same. 1,949,299; Feb. 27.

Falk, Theodore S., Brooklyn, assignor to Continental Paper and Bag Corp., New York, N. Y. Paper bag. 1,948,569; Feb. 27.

Fanarjian, John, Union City, N. J., assignor of one-half to P. M., J. M., and J. M. Hammalian. Foldable desk. 1,948,703; Feb. 27.

Fanfarillo, Cesare, Glassboro, N. J. Roadway subgrader. 1,949,151; Feb. 27.

Fankboner, Harland, assignor to The Goss Printing Press Company, Chicago, Ill. Delivery mechanism. 1,949,152; Feb. 27.

Fankboner, Harland, assignor to The Goss Printing Press Company, Chicago, Ill. Folding mechanism. 1,949,153; Feb. 27.

Fansteel Products Company. (See Anselm, Albert J., assignor.)

Farrington, John F., Flushing, assignor to International Communications Laboratories, Incorporated, New York, N. Y. Keying system. 1,949,248; Feb. 27.

Fecher, Frederick F., Rockville Center, N. Y. Duplicator. 1,949,154; Feb. 27.

Fellows Gear Shaper Company. (See Miller, Edward W., assignor.)

Fenner, Robert C., Evanston, assignor to Vortex Cup Company, Chicago, Ill. Packing nested paper cups. 1,948,751; Feb. 27.

Fenzlein, Henry C., Mitchell, S. Dak. Illuminated head for gear shift levers. 1,949,155; Feb. 27.

Ferenci, Lester, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar cellophane-envelope end-crimping device. 1,948,570; Feb. 27.

Ferguson, J. L., Company. (See Ferguson, John L., assignor.)

Ferguson, John A., assignor of one-third to T. B. Sturges, Pittsburgh, Pa. Fireproof building construction. 1,949,045; Feb. 27.

Ferguson, John L., assignor to J. L. Ferguson Company, Joliet, Ill. Liner folding device. 1,948,657; Feb. 27.

Ferris, Walter, assignor to Oilgear Company, Milwaukee, Wis. Hydraulic transmission. Re19,095; Feb. 27.

Ferro Engineering Company, The. (See Charman, W. M., and Peterson, assignors.)

Fickelssen, Edward P., Richmond Hill, N. Y. Automatic switching device for toy and other electric railroads. 1,948,571; Feb. 27.

Fidelity Machine Company. (See Larkin, Walter, assignor.)

Filtration Engineers, Inc. (See O'Keefe, George W., assignor.)

Finkelstein, Tobias, New York, N. Y. Insect guard. 1,949,198; Feb. 27.

Fischel, Paul F. (See Lyman, W. H., and Fischel.)

Fischer, Ernst, Berlin-Lichterfelde-West, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Cable for communication circuits. 1,948,616; Feb. 27.

Fischer, Wilhelm, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Operating high frequency furnaces. 1,948,704; Feb. 27.

Fisher, Harry C., Norwood, assignor to The Richardson Company, Lockland, Ohio. Fibrous composition and manufacture. 1,949,249; Feb. 27.

Fitter, Emil H., New York, N. Y. Mixing faucet. 1,949,300; Feb. 27.

Flanders, Fred L., Spring Lake, Mich., assignor to Oakes Products Corporation, North Chicago, Ill. Lock structure. 1,948,705; Feb. 27.

Flowers, Henry F., Findlay, Ohio. Dump vehicle with actuated doors. 1,949,120; Feb. 27.

Floyd, William B., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,948,572; Feb. 27.

Flyberg, Esther E., Halstad, Minn. Decoration and light holder. 1,948,818; Feb. 27.

Flygare, Carl G. (See Norton, C. H., and Flygare.)

Fonrobert, Ewald, and A. Greth, Wiesbaden, Germany, assignors to Resinous Products & Chemical Co., Inc., Philadelphia, Pa. Production of resin-acid condensation products. 1,948,578; Feb. 27.

Fonseca, Edward L., assignor to The Wilcolator Company, Newark, N. J. Heat control device. 1,949,250; Feb. 27.

Foote, Edward B., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for controlling industrial processes. 1,949,190; Feb. 27.

Forni, George, Oakland, Calif. Repository for refuse cans. 1,949,301; Feb. 27.

Fortier, Charles L., Montreal, Quebec, Canada. Aircraft. 1,948,574; Feb. 27.

Fortune, Richard T., Watsonville, Calif. Memorandum device 1,948,851; Feb. 27.

Foster, C. M., et al. (See Grayson, Ralph V., assignor.)

Foster, Fred L., assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y. Radiator mounting. 1,948,706; Feb. 27.

Francis, Lynn M., and E. W. Jeffers, Detroit, and W. A. Fader, Birmingham, assignors, by mesne assignments, to Whitehead and Kales Company, Detroit, Mich. Semitrailer. 1,949,156; Feb. 27.

Frank, Leonhard, Berlin-Wilmersdorf, Germany, assignor to Generaldirektion der Österreichischen Tabak-Regie, Vienna, Austria. Preparing tobacco free from nicotine. 1,949,012; Feb. 27.

Frederics, E., Inc. (See Weinberger, Samuel D., assignor.)

Freeman, Newell L., and N. W. Storer, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Automatic torque for gas electric cars. 1,948,752; Feb. 27.

Free Wheeling Patents Corporation. (See Simpson, J. M., and White, assignors.)

Freson, Frank, Yakima, Wash. Display rack for periodicals. 1,949,200; Feb. 27.

Freygang, Walter H., Weehawken, N. J., assignor to Walter Kidde & Company, Inc. Fire extinguishing medium distribution system. 1,948,753; Feb. 27.

Freysinger, John B., assignor to North and Judd Manufacturing Company, New Britain, Conn. Buckle. Des. 91,618; Feb. 27.

Frick Company. (See Shenton, Francis, assignor.)

Friedman, William, New York, N. Y. Fountain pen. 1,949,201; Feb. 27.

Fries, Nestor, Fort Wayne, Ind., assignor, by mesne assignments, to D. S. Golding and C. W. Murchison, Dallas, Tex. Force feed lubricator. 1,949,272; Feb. 27.

Frigidaire Corporation. (See Floyd, William B., assignor.)

Frigidaire Corporation. (See Macready, J. A., and Matthews, assignors.)

Frolander, Frank C., Elizabeth, N. J., assignor to Mergenthaler Linotype Company. Slug casting machine. 1,949,302; Feb. 27.

Frost Rubber Works. (See Netzel, Frank M., assignor.)

Fuller, Raymond C., assignor to Henry Vogt Machine Co. Inc., Louisville, Ky. Absorption refrigerating apparatus. 1,949,157; Feb. 27.

Fulton Syphon Company, The. (See Giesler, Jean V., assignor.)

Furgason, Claude E., assignor to Reo Motor Car Company, Lansing, Mich. Thermostatic shutter control. 1,948,910; Feb. 27.

Fusold Electric Co., Inc. (See Grady, Stephen S., assignor.)

Gall, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Manufacturing spring assemblies. 1,948,754; Feb. 27.

Gamble, Thomas B., et al. (See Browning, Artis J., assignor.)

Gangstad, John O. (See Romeis, A. J., and Gangstad.)

Gardner, Prince A., jr., St. Louis, Mo. Embossing and printing machine. 1,948,911; Feb. 27.

Garfein, Ralph T., Easton, Pa., assignor to The Canister Company, Phillipsburg, N. J. Container. 1,949,303; Feb. 27.

Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,948,518; Feb. 27.

Gasoline Products Company. (See Cross, Walter M., assignor.)

Gay, Azel, assignor to Multipost Co., Rochester, N. Y. Mailing machine. 1,949,158; Feb. 27.

Gay, Frazer W., Newark, N. J., assignor to General Cable Corporation, New York, N. Y. Cooling system for electrical cables. 1,948,964; Feb. 27.

Gearing, William A. (See Louderback, Harry A., assignor.)

General Aniline Works, Inc. (See Greune, H., and Eckert, assignors.)

General Aniline Works, Inc. (See Kalischer, G., Limpach, and Hager, assignors.)

General Aniline Works, Inc. (See Keller, Karl, assignor.)

General Aniline Works, Inc. (See Krinzlein, G., and Vollmann, assignors.)

General Aniline Works, Inc. (See Kunz, M. A., and Koeberle, assignors.)

General Aniline Works, Inc. (See Winkeler, H., Reindel, and Von Rosenberg, assignors.)

General Cable Corporation. (See Gay, Frazer W., assignor.)

General Electric Company. (See Ellis, Alvarado L. R., assignor.)

General Electric Company. (See Gilbert, Ralph A., assignor.)

General Electric Company. (See McNairy, Jacob W., assignor.)

General Electric Company. (See Paul, William E., assignor.)

General Electric Company Limited, The. (See Kapp, R. O., and Carrothers, assignors.)

General Motors Research Corporation. (See Almen, John O., assignor.)

General Motors Research Corporation. (See Berry, George P., assignor.)

General Motors Research Corporation. (See Kettering, Charles F., assignor.)

General Motors Research Corporation. (See Lindblom, Carl A., assignor.)

General Motors Research Corporation. (See Perrine, Lester E., assignor.)

General Motors Research Corporation. (See Tyler, John M., assignor.)

General Paint Corporation. (See Boylan, D. W., Kramer, and Jansen, assignors.)

Generaldirektion der Osterreichischen Tabak-Regie. (See Frank, Leonhard, assignor.)

George & Sherrard Paper Co. (See Herder, Raymond F., assignor.)

Gerin, Gaston, P. J. Branchu, and S. Teszner, Grenoble, France. Device for extinction of electric arcs. 1,948,658; Feb. 27.

Geyger, Wilhelm, Dusseldorf, Germany. Rotating armature-quotient measuring instrument. 1,948,912; Feb. 27.

Gibbs, William J., Brooklyn, N. Y. Automatic stop for electrically driven machines. 1,949,119; Feb. 27.

Gibson, Jesse G., assignor of fifty-one per cent to Bradford Supply Company, Bradford, Pa. Crank mechanism. 1,948,814; Feb. 27.

Giesler, Jean V., assignor to The Fulton Syphon Company, Knoxville, Tenn. Thermostatic radiator valve. 1,948,659; Feb. 27.

Gilbert, Ralph A., Pittsfield, Mass., assignor to General Electric Company. Arc welding. 1,949,251; Feb. 27.

Gilchrist, Archibald R., Los Angeles, Calif. Lip shield. 1,949,013; Feb. 27.

Gilfoy, John J., Denver, Colo. Nozzle attachment for air hoses. 1,948,852; Feb. 27.

Gilman, Charles, Plainfield, N. J., assignor to Massey Concrete Products Corporation, Chicago, Ill. Apparatus and method for installing pipe. 1,948,707; Feb. 27.

Gilpin, Victor L., Baltimore, Md. Automobile and other lock. 1,948,913; Feb. 27.

Ginn and Company. (See Buckwell, Arthur W., assignor.)

Ginsburg, Fred, Chicago, Ill. Automobile body door. Des. 91,619; Feb. 27.

Gleason, James E., and S. H. Earl, assignors to Gleason Works, Rochester, N. Y. Cutter truing fixture. 1,949,014; Feb. 27.

Gleason Works. (See Gleason, J. E., and Earl, assignors.)

Glidden, Alfred A., Watertown, and V. H. Bodle, Newton, assignors to Hood Rubber Company, Inc., Watertown, Mass. Compound ventilated fabric and making the same. 1,949,159; Feb. 27.

Globe Machine & Stamping Company, The. (See Green, Lee B., assignor.)

Globe Oil Tools Company. (See Howard, J. H., and Catland, assignors.)

Goldberg, Jacob M. (See Goldberg, Louis B., N., W., and J. M.)

Goldberg, Louis B., N. Goldberg, W. Goldberg, and J. M. Goldberg, Denver, Colo. Awning arm hinge. 1,948,788; Feb. 27.

Goldberg, Louis B., N. Goldberg, W. Goldberg, and J. M. Goldberg, Denver, Colo. Awning arm bracket. 1,948,789; Feb. 27.

Goldberg, Nathan. (See Goldberg, Louis B., N., W., and J. M.)

Goldberg, William. (See Goldberg, Louis B., N., W., and J. M.)

Golding, Dudley S., et al. (See Fries, Nestor, assignor.)

Goodrich, B. F., Company, The. (See Achterhof, Marvin, assignor.)

Goodrich, B. F., Company, The. (See Clarke, John H., assignor.)

Goodrich, B. F., Company, The. (See Leguillon, Charles W., assignor.)

Goodrich, B. F., Company, The. (See Merrill, Allan B., assignor.)

Goodrich, B. F., Company, The. (See Waner, Harry E., assignor.)

Goss Printing Press Company. (See Fankboner, Harland, assignor.)

Gottesman, George S. (See Mansfield, N. F., and Gottesman.)

Gottlieb, Joseph, Jersey City, N. J. Clock case or similar article. Des. 91,620; Feb. 27.

Gottlieb, Joseph, Jersey City, N. J. Combined clock case and lamp or similar article. Des. 91,621; Feb. 27.

Grace, William E., Dallas, Tex. Pavement signal. Des. 91,622; Feb. 27.

Grady, Stephen S., Magnolia, N. C., assignor to Fusold Electric Co., Inc. Circuit interrupter. 1,948,519; Feb. 27.

Graff, Ernest assignor to The Electric Storage Battery Company, Philadelphia, Pa. Making lead alloy castings. 1,949,372; Feb. 27.

Granberg, Albert J., Berkeley assignor to Ralph N. Brodie Company, Oakland, Calif. Automatic control for fluid metering systems. 1,948,984; Feb. 27.

Granberg Meter Corporation. (See Brubaker, Walter S., assignor.)

Gransden, Lyle G., Edenville, Mich. Adjustable hinge. 1,949,252; Feb. 27.

Grayson, Ralph V., assignor of fifty per cent to E. G. Ballenger, C. M. Foster, and F. M. Bird, Atlanta, Ga., as organizers and incorporators of Refrigeration Patents and Processes, Inc. Refrigeration system. 1,948,790; Feb. 27.

Green, Lee B., Lakewood, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Dry cleaning or washing machine. 1,948,879; Feb. 27.

Greenewalt, Mary H., Philadelphia, Pa. System in illumination and particularly to apparatus therefor. 1,949,101; Feb. 27.

Greenlaw, Burpee D., assignor to The Brown Bag Filling Machine Company, Fitchburg, Mass. Bag making machine. 1,949,273; Feb. 27.

Greenway, Richard J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Antioffset mechanism for printing presses. 1,949,102; Feb. 27.

Greth, Arthur. (See Fonrobert, E., and Greth.)

Greune, Heinrich, and W. Eckert, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparing 1.4.5.8-naphthalene-tetra-carboxylic acid and substitution products thereof. 1,949,202; Feb. 27.

Grommesch, Albert P. (See Draper, Charles D., assignor.)

Grommesch, Albert P. (See Patterson, Samuel A., assignor.)

Grower, William F., trustee, et al. (See Pratt, Harry P., assignor.)

Grubb, William J. (See Read, J. and Grubb.)

Grube, Emil, assignor to International Narrow Fabric Company, Keene, N. H. Binding tape. 1,949,274; Feb. 27.

Gruendel, Edward B., Chicago, Ill. Rotary floor treating machine. 1,948,815; Feb. 27.

Gruman, Horace F., and C. L. Knower, Kirkwood, Mo. Sewing machine. 1,949,073; Feb. 27.
Grundy, John R., Philadelphia, Pa. Flexible coupling. 1,948,708; Feb. 27.
Guild, Waldo J., assignor to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,948,914; Feb. 27.
Gullicksen, Ole, assignor to Churchill Cabinet Company, Chicago, Ill. Telephone booth. 1,948,755; Feb. 27.
Gunn, Earl G., assignor to Walker Manufacturing Co., Racine, Wis. Muffler. 1,949,074; Feb. 27.
Gustavson, Alvin N., Jamestown, N. Y., assignor to Automatic Voting Machine Corporation. Voting machine. 1,948,660; Feb. 27.
Gustavson, Alvin N., Jamestown, N. Y., assignor to Automatic Voting Machine Corporation. Voting machine. 1,948,661; Feb. 27.
Gwinn, George W., Hewlett, N. Y., assignor to American Machine & Foundry Company. Leveling device for cigarette machine feeds. 1,948,575; Feb. 27.
Gyro Process Company, The. (See Tuttle, Malcolm H., assignor.)
Hackthal, Johannes, Nordhuasen, Germany, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Valve. 1,948,709; Feb. 27.
Hadley, George F., Pittsburgh, Pa. assignor to Westinghouse Electric & Manufacturing Company. Composition of matter. 1,948,756; Feb. 27.
Hager Karl. (See Kalischer G. Limpach and Hager.)
Haley Martin C. Detroit Mich. Perpetual calendar. 1,948,576; Feb. 27.
Hallenbeck, Charles V., Denver, Colo. Controlling mechanism for winding drums. 1,949,015; Feb. 27.
Halstead, Richard R., Beach, N. Dak. Air filter. 1,948,791; Feb. 27.
Hamm, Phillip, Elwood, Ind. Cigarette snuffer. 1,948,880; Feb. 27.
Hamm, William S., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Curtain roller construction. 1,949,160; Feb. 27.
Hammalian, Jacob M., et al. (See Fanarjian, John, assignor.)
Hammalian, Paul M., et al. (See Fanarjian, John, assignor.)
Handwerk, Otto T. (See Spitzglass, A. F., and Handwerk.)
Harber, Laurence S. (See Pointon, J. E., and Harber.)
Hardcastle, Sydney, Montreal, Quebec, Canada. Fluid dispenser. 1,949,387; Feb. 27.
Hardin, George W., Greeneville, Tenn. Aircraft. 1,949,304; Feb. 27.
Harris, Cleo, Cincinnati, assignor, by mesne assignments, to Thompson Products, Incorporated, Cleveland, Ohio. Ball and socket joint. 1,948,757; Feb. 27.
Harris-Seybold-Potter Company, The. (See Valiquette, William L., assignor.)
Harsen, Fred S., assignor of one-half to A. F. Kreutzer, Chicago, Ill. Ladder supporting structure. 1,948,577; Feb. 27.
Hart, Harry B., Boston, Mass. Sheet, mattress, and blanket clamp. 1,948,965; Feb. 27.
Harte, Frank, assignor to R. Papert, New York, N. Y. Automatic radio tuning mechanism. 1,948,710; Feb. 27.
Hartmann, Max, and H. Isler, Riehen, near Basel, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Basic ether containing halogen. 1,949,046; Feb. 27.
Harvey, Edward W., New Brunswick, N. J., assignor to The Barrett Company, New York, N. Y. Ammoniation of superphosphate. 1,948,520; Feb. 27.
Hasley, William G., Pittsburgh, Pa. Vehicle advertising sign. 1,948,578; Feb. 27.
Hang, Charles F., Brooklyn, N. Y. Package. 1,949,161; Feb. 27.
Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Holder and carrier for riveting machines. 1,949,388; Feb. 27.
Havill, Clinton H., South Orange, assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Driving mechanism. 1,949,203; Feb. 27.
Heald Machine Company, The. (See Blood, Harold L., assignor.)
Heald Machine Company, The. (See Guild, Waldo J., assignor.)
Heald Machine Company, The. (See Heald, Richard A., assignor.)
Heald, Richard A., assignor to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,948,915; Feb. 27.
Heath, Sheldon B., assignor to The Dow Chemical Company, Midland, Mich. Purifying calcium chlorate. 1,949,204; Feb. 27.
Heath, William C., Milwaukee, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Magneto construction. 1,948,853; Feb. 27.
Heath, William C., Milwaukee, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Magneto electric machine. 1,948,854; Feb. 27.
Heinrich, Walter A., St. Louis, Mo. Protective apparatus for high-tension transmission lines. 1,948,855; Feb. 27.
Heinrich, Walter A., St. Louis, Mo. Tool for setting earth anchors. 1,948,856; Feb. 27.
Heintz, James C., Lakewood, Ohio. Belt vulcanizing apparatus. 1,949,275; Feb. 27.
Heintz Manufacturing Company. (See D'Ardenne, Walter H., assignor.)
Heitzmann, Wilhelm. (See Schmid, O., and Heitzmann.)
Heline, Joseph. (See Vaverek, C., and Heline.)
Heller, Frank E., et al. (See Kelly, Bernerd D., assignor.)
Hellmann, Louis E., Great Neck, assignor to Continental Ceramics Corporation, New York, N. Y. Casserole, bowl, or similar article. Des. 91,623; Feb. 27.
Hellmann, Louis E., Great Neck, assignor to Continental Ceramics Corporation, New York, N. Y. Dish or similar article. Des. 91,624; Feb. 27.
Hellmann, Louis E., Great Neck, assignor to Continental Ceramics Corporation, New York, N. Y. Pitcher or similar article. Des. 91,625; Feb. 27.
Hemphill Company. (See Lawson, Robert H., assignor.)
Henderson, Hurley N., assignor of one-half to Peter Ballas, Quincy, Ill. Expansion joint. 1,948,916; Feb. 27.
Henry, Erwin W. (See Nelson, M. A., and Henry.)
Herder, Raymond F., Bloomfield, N. J., assignor to George & Sherrard Paper Co., New York, N. Y. Shipping bag. 1,949,121; Feb. 27.
Herring, George E., and F. E. Dean, assignors to Associated Silver Company, Chicago, Ill. Protecting silver, etc. from tarnishing. 1,949,205; Feb. 27.
Herring, Walter. (See O'Hara, B., and Herring.)
Herrington, George S., trustee, et al. (See Pratt, Harry P., assignor.)
Hester, Edgar A., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Network distribution system. 1,948,711; Feb. 27.
Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
Hill, C. V., & Co. Inc. (See Hill, Clement V., assignor.)
Hill, Clement V., assignor to C. V. Hill & Co., Inc., Trenton, N. J. Wrapping paper attachment for show cases. 1,949,373; Feb. 27.
Hill, George C., Sandusky, Ohio. Whipping attachment for drink mixers. 1,949,047; Feb. 27.
Hitchcock, Rex B., Croix-Wasquehal, France, assignor to International Harvester Company. Gathering means for corn pickers. 1,948,917; Feb. 27.
Hongland, Frank O., West Hartford, assignor to Pratt & Whitney Company, Hartford, Conn. Tracer controlled lathe. 1,948,617; Feb. 27.
Hockley, Chester F., receiver. (See Abbott, Cornelius F.)
Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Timing device. 1,948,758; Feb. 27.
Hoe, R., & Co. (See Eckhard, William K., assignor.)
Hoeft, Adolph R., Evanston, assignor to Hoeft & Company, Inc., Chicago, Ill. Oil burner. 1,948,857; Feb. 27.
Hoeft & Company. (See Hoeft, Adolph R., assignor.)
Hoeft & Company. (See Lindgren, Waldemar L., assignor.)
Hoffman, Albert F., assignor to Hoffman Beverage Company, Newark, N. J. Bottle cleaning device. 1,949,206; Feb. 27.
Hoffman Beverage Company. (See Hoffman, Albert F., assignor.)
Hoffman, George D., Pasadena, assignor, by mesne assignments, to Thermador Electrical Manufacturing Company, Los Angeles, Calif. Electric heater. 1,948,759; Feb. 27.
Hokerk, Lynde D., Utica, N. Y. Appliqué process. 1,948,620; Feb. 27.
Hollerith, Charles, Jackson, Mich., assignor to Automotive Fan & Bearing Co. Fan bearing. 1,948,816; Feb. 27.
Hollingshead, R. M., Co., The. (See Bagley, Robert M., assignor.)
Holst, Gilles, assignor to N. V. Phillips' Gloeilampenfabrieken, Eindhoven, Netherlands. High tension rectifier comprising an auxiliary electrode. 1,949,048; Feb. 27.
Holthaus, Elmo G., St. Louis, Mo. Oil-burning heater. 1,948,662; Feb. 27.
Hood Rubber Company. (See Glidden, A. A., and Bodle, assignors.)
Hook, Walter W., Los Angeles, Calif. Camera. 1,948,579; Feb. 27.
Hooley, John W., Larchmont, N. Y. Renewable fuse plug. 1,949,305; Feb. 27.
Hoos, Benjamin G. (See Schur, M. O., Hoos, and Morris.)
Hopkins, George J., assignor to McCray Refrigerator Company, Kendallville, Ind. Illuminated display case. 1,949,253; Feb. 27.
Hopkins, Samuel R., Long Beach, assignor, by mesne assignments, of one-half to J. C. Wright and one-half to W. H. Maxwell, Los Angeles, Calif. Rotary drilling bit. 1,949,049; Feb. 27.
Horner, Harold R. (See Derby, I. H., and Horner.)
Horning, Herman G., New York, N. Y. Electric switch. 1,949,306; Feb. 27.
Hornung, Elias J., Rochester, N. Y. Educational device or game. 1,948,712; Feb. 27.
Horsley, James, et al. (See Bing, R., Pereira, and Horsley.)
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container closure applying tool. 1,948,521; Feb. 27.
Howard, Guy C., Wausau, Wis. Lignin derivatives and making same. 1,948,858; Feb. 27.

Howard, John H., Huntington Park, and A. C. Catland, Alhambra, assignors to Globe Oil Tools Company, Los Nietos, Calif. Making a tool. 1,949,050; Feb. 27.
Howe, Patrick H., Springfield Gardens, N. Y. Key indicator. 1,948,985; Feb. 27.
Hubbell, Harvey, Incorporated. (See Avery, Charles E., assignor.)
Hucknall, Hage W., assignor to The American Lace Mfg. Co., Elyria, Ohio. Lace scarf or similar article. Des. 91,626; Feb. 27.
Hucks, Robert T., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nonchalking coating composition. 1,948,580; Feb. 27.
Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,948,713; Feb. 27.
Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,948,714; Feb. 27.
Huffman, Charles E., Montclair, N. J., assignor, by mesne assignments, to Radio Corporation of America. Electron discharge device. 1,949,276; Feb. 27.
Huffman, Mervin C., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 1,949,075; Feb. 27.
Huches, Benjamin I., Knoxville, Tenn. Soft collar positioner. 1,949,307; Feb. 27.
Hughes, Michael. (See McCaig, Robert L., assignor.)
Hullhorst, Stella B., executrix. (See Hullhorst, William G.)
Hullhorst, William G., deceased, S. B. Hullhorst, executrix, assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for grooving laminated glass. 1,948,581; Feb. 27.
Hunt, James K., and G. H. Latham, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Antioxidants. 1,948,582; Feb. 27.
Hunt, Livingston S., assignor to R. H. Sloan, West New Brighton, Staten Island, N. Y. Serving tray. Des. 91,627; Feb. 27.
Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)
Hutchison, William M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,948,760; Feb. 27.
Huttenlocher, Paul J. (See Buholzer, Joseph, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Correns, E., and Mohring, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kraenzlein, G., and Voss, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pier, M., Wissel, and Dinkler, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pokorny, Ernst, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schreiber, Gustav, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Weiler, M., Wenk, and Stötter, assignors.)
Ilberg, Waldemar, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Alternating current relay. 1,949,254; Feb. 27.
Imperial Chemical Industries Limited. (See Bunbury, H. M., Naunton, and Palmer, assignors.)
Imperial Chemical Industries Limited. (See Strong, Howard W., assignor.)
Imperial Chemical Industries Limited. (See Mendoza, M., and Murray, assignors.)
Industrial Associated, Inc. (See Riley, Champlain, assignor.)
Industrial Development Corporation. (See Weber, Harold C., assignor.)
Industrial Grease Company. (See Kettlewell, H. E., and Retitclaire, assignors.)
Industrial Improvements Incorporated. (See Kirby, James B., assignor.)
Infallible Card Selecting Company Limited, The. (See Taylor, Edgar W., assignor.)
International Check Endorser Co., The. (See Lyman, W. H., and Fischel, assignors.)
International Cigar Machinery Company. (See Beutel, Robert J., assignor.)
International Cigar Machinery Company. (See Ferenci, Lester, assignor.)
International Cigar Machinery Company. (See Patterson, M., and Rundell, assignors.)
International Cigar Machinery Company. (See Peterson, Pontus, assignor.)
International Cigar Machinery Company. (See Rundell, Rupert E., assignor.)
International Combustion Engineering Corporation. (See Jackson, George P., assignor.)
International Combustion Engineering Corporation. (See Kreisinger, Henry, assignor.)
International Communications Laboratories, Incorporated. (See Farrington, John F., assignor.)
International Harvester Company. (See Duckworth, Nevin H., assignor.)
International Harvester Company. (See Hitchcock, Rex B., assignor.)
International Harvester Company. (See Johnson, Arnold E. W., assignor.)
International Harvester Company. (See Johnston, E. A., Raney, and Johnson, assignors.)
International Harvester Company. (See Lindgren, A. C., and Raney, assignors.)
International Harvester Company. (See Welty, Albert B., assignor.)
International Narrow Fabric Company. (See Grube, Emil, assignor.)
Ireland, Dwight B., executor, et al. (See Ireland, George E., assignor.)
Ireland, Edith M., executor, et al. (See Ireland, George E.)
Ireland, George E., deceased, Toledo, Ohio; E. M. and D. B. Ireland, executors. Method and apparatus for producing radiator shells and the like. 1,948,918; Feb. 27.
Irvine, Andrew. (See Emery, H., Irvine, and Bateman.)
Irving Trust Company, receivers. (See Eckhard, William K.)
Irwin, George H., Chicago, Ill. Gas burner structure. 1,948,663; Feb. 27.
Isler, Hans. (See Hartmann, M., and Isler.)
Jackson, George P., Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Finely divided fuel burner. 1,949,277; Feb. 27.
Jacobs, Samuel S., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Packing stand. 1,948,522; Feb. 27.
Jaeger, Gebhard. (See Wayer, H., and Jaeger.)
Jaeger, Gebhard, Columbus, Ohio. Valve protector for gas containers. 1,948,966; Feb. 27.
Jaeger, Gebhard, and J. Eggert, assignors to The Jaeger Machine Company, Columbus, Ohio. Metering and closure locking means for concrete mixers. 1,948,715; Feb. 27.
Jaeger Machine Company, The. (See Jaeger, G., and Eggert, assignors.)
James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Fractioning partial oxidation products. 1,948,817; Feb. 27.
Jamestown Metal Equipment Company. (See Foster, Fred L., assignor.)
Jansen, Emile. (See Boylan, D. W., Kramer, and Jansen.)
Jaquith, William K., Petaluma, Calif. Egg cushion. 1,948,986; Feb. 27.
Jassen, Bern, Brooklyn, N. Y. Removable shoe heel and lift. 1,948,967; Feb. 27.
Jeffcott, Robert C., Somerville, assignor to Calco Chemical Company, Inc., Bound Brook, N. J. Apparatus for use in the catalytic oxidation of gases. 1,949,122; Feb. 27.
Jeffers, Earl W. (See Francis, L. M., Jeffers, and Fader.)
Jeffries, John M., assignor to Atlas Powder Company, Wilmington, Del. Method of and explosive for blasting deep well holes. 1,948,583; Feb. 27.
Jenkins, Charles F., Washington, D. C. Diathermy contact pad. 1,948,716; Feb. 27.
Jensen, Edward W. (See Weber, S. L., Baker, and Jensen.)
Jewell Electrical Instrument Company. (See Miller, John H., assignor.)
Johnson, Alex, assignor to Land O'Lakes Creameries, Inc., Minneapolis, Minn. Heat transfer apparatus for semi-solid products. 1,949,374; Feb. 27.
Johnson, Arnold E. W. (See Johnston, E. A., Raney, and Johnson.)
Johnson, Arnold E. W., Chicago, Ill., assignor to International Harvester Company. Tractor disk harrow. 1,948,919; Feb. 27.
Johnson, Charles D., Worcester, Mass. Continuous wire-drawing apparatus. 1,948,664; Feb. 27.
Johnson, Earl K., Tacoma, Wash. Tripod stabilizer. 1,948,584; Feb. 27.
Johnson, George W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Combined pressure and centrifugal extractor. 1,949,278; Feb. 27.
Johnson, Gust, Independence, Mo. Draft equalizer. 1,948,665; Feb. 27.
Johnson, Horace L. (See Ross, F. N., and Johnson.)
Johnson, Smith M., Middlefield, Ohio. Attaching means for container heads. 1,948,920; Feb. 27.
Johnston, Edward A., Chicago, C. R. Raney, Riverside, and A. E. W. Johnson, assignors to International Harvester Company, Chicago, Ill. Harvester thresher. 1,948,921; Feb. 27.
Johnston, Joseph. (See Shaw, J. F., Donnelly, and Johnston.)
Jones, Charles T., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,948,666; Feb. 27.
Jones, Ernest R., Detroit, Mich. Die grinder. 1,948,859; Feb. 27.
Jones, Frank G., assignor to Eli Lilly and Company, Indianapolis, Ind. Preparation of lysed bacterial proteins for topical application. 1,949,375; Feb. 27.
Jones, Ira M., Milwaukee, Wis. Toggle clip. 1,949,123; Feb. 27.
Jones, McDuffie & Stratton Corporation. (See DeMuth, Charles J., assignor.)
Joyce, Temple N. (See Lucking, David F., assignor.)
Józsa, Stephen, New York, N. Y., assignor to Standard Brands Incorporated, Dover, Del. Purifying normally solid chemical compounds. 1,948,585; Feb. 27.
Judd, H. L., Company. (See Toelle, Walter H., assignor.)
Judd, Irving H., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Transporting vehicles and the like. Re19,094; Feb. 27.
Juenrich, Max U., Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn. Textile fabric. Des. 91,628; Feb. 27.
Jurey, Austin W. (See Jurey, Wesly F., and A. W.)
Jurey, Wesly F. and A. W., Norcatur, Kans. Punch. 1,949,308; Feb. 27.

Justheim, Clarence I., Salt Lake City, Utah. Multiple glass top fuse plug. 1,949,016; Feb. 27.
Jyrch, Herbert, Dresden, Germany. Resilient support for motor cars. 1,948,922; Feb. 27.
Kahlert, Fred W., Los Angeles, Calif. Dental cuspidor. 1,948,523; Feb. 27.
Kalgren, John E., assignor to J. R. Clark Company, Minneapolis, Minn. Ladder. 1,949,076; Feb. 27.
Kalischer, Georg, Frankfort-on-the-Main, Otto Limpach, Wiesbaden-Biebrich, and K. Hager, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Substituted benzo-carbazole-carboxylic acid and preparing it. 1,948,923; Feb. 27.
Kalischer, Louis, Brooklyn, N. Y. Electric wiring strip and making same. 1,949,077; Feb. 27.
Kallenbach, Edward E., New York, N. Y. Container. 1,949,162; Feb. 27.
Kalunite Company. (See Sanders, Walter M., assignor.)
Kapp, Frank E., Tidioute, Pa. Sand or sediment trap for pumping wells. Re19,096; Feb. 27.
Kapp, Reginald O., and C. G. Carrothers, assignors of one half to The General Electric Company Limited, London, England. Protective arrangement for alternating current polyphase power transmission systems. 1,948,717; Feb. 27.
Kasanof, David R. (See Klein, Samuel.)
Kasten, Joseph H., and H. McIntosh, Hicksville, N. Y. Invalid vehicle. 1,949,163; Feb. 27.
Katz, Norman, Tulsa, Okla. Hone. 1,949,309; Feb. 27.
Kauffman, Casper J. (See Urban, Claude E., assignor.)
Kearney & Trecker Corporation. (See Armitage, Joseph S., assignor.)
Keith, Irving L. (See Sawyer, Albert F., assignor.)
Keller, Charles L., Cincinnati, assignor to The Richardson Company, Lockland, Ohio. Corrugated board. 1,949,255; Feb. 27.
Keller, Karl, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Nitrogen containing conversion products of higher aliphatic hydrocarbon and preparing the same. 1,948,924; Feb. 27.
Kellogg, Spencer, and Sons, Inc. (See Schwareman, Alexander, assignor.)
Kelly, Bernard D., Bidwell, assignor of one fourth to B. W. Kelly, Morral, and one fourth to F. E. Heller, Marion, Ohio. Burglarproof vault. 1,949,310; Feb. 27.
Kelly, Bishop W., et al. (See Kelly, Bernard D., assignor.)
Kelly, James J. (See McEwan, John, assignor.)
Kelly, Joseph A., assignor to Radium Dial Company, New York, N. Y. Self-luminous device. 1,948,718; Feb. 27.
Kelly, Mary E. (See Kelly, William H., assignor.)
Kelly, William H., assignor to M. E. Kelly, Los Angeles, Calif. Treating metal. 1,949,051; Feb. 27.
Kephart, Samuel N., assignor to Marshall Field & Company, Chicago, Ill. Container. Des. 91,629; Feb. 27.
Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Newark, N. J. Steam separator. 1,948,524; Feb. 27.
Kesselring, Fritz, Berlin-Hermsdorf, Germany, assignor to Westinghouse Electric & Manufacturing Company. Expansion switch. 1,948,761; Feb. 27.
Kestenman Bros. Mfg. Co. (See Barrowman, Arthur H., assignor.)
Kettering, Charles F., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Making air cooled cylinders. 1,948,818; Feb. 27.
Kettlewell, Harry E., Poland, and L. Petitclaire, Struthers, Ohio, assignors to Industrial Grease Company. Roll neck lubricator for rolling mills. 1,949,103; Feb. 27.
Kidde, Walter, & Company. (See Freygang, Walter H., assignor.)
Kiel Furniture Co. (See Laun, Carl H., assignor.)
King, George W., assignor of two-twelfths to L. T. Englund, two-twelfths to J. E. Mahan, Coffeyville, Kans., and seven-twelfths to R. T. Osborn, New York, N. Y. Safety and vacuum valve structure for tanks. 1,949,208; Feb. 27.
King, William, Clapham Park, London, England. Metal seal for wire and the like. 1,948,719; Feb. 27.
Kinkead, Georgie R., and W. L. Moir, Chicago, Ill.; said Moir assignor to said Kinkead. Bottle carrier. 1,949,207; Feb. 27.
Kinney, Grayson T., assignor to The Cleveland Tractor Company, Cleveland, Ohio. Lubricating means. 1,948,819; Feb. 27.
Kinser, Vernon, Purdy, Mo. Variable speed transmission. 1,949,073; Feb. 27.
Kirby, James B., West Richfield, assignor to Industrial Improvements Incorporated, Cleveland, Ohio. Suction cleaning apparatus. 1,949,052; Feb. 27.
Kirkpatrick, William J., Garden City, assignor to A. Schrader's Son, Incorporated, New York, N. Y. Valve stem. 1,948,762; Feb. 27.
Kirschbraun, Lester, Leonia, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, New York, N. Y. Bituminous emulsion. 1,948,881; Feb. 27.
Kitsee, Isidor, assignor to Mineralite Corporation, Philadelphia, Pa. Method and means to increase the electric insulating property of ceramics such as porcelain. 1,949,311; Feb. 27.
Klausmeyer, David C., deceased, H. H. Sundermann, executor, and A. M. Sosa, assignors to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Interlocked arm clamp and elevating control. 1,948,618; Feb. 27.
Klein, Samuel, New York, and D. R. Kasanof, Brooklyn, N. Y.; said Kasanof assignor to said Klein. Seal. Des. 91,630; Feb. 27.
Klingler, Rayfield G., Shelby, Mont. Auxiliary ignition system. 1,948,925; Feb. 27.
Knapp Bros. Mfg. Co. (See Thomas, Wingate S., assignor.)
Knapp-Monarch Company. (See Smith, John E., assignor.)
Knapp-Monarch Company. (See Starr, Alden B., assignor.)
Knower, Charles L. (See Gruman, H. F., and Knower.)
Knowles, Dewey D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Television receiving lamp. 1,948,720; Feb. 27.
Knupp, Leo, Mounds, Ill. Shoe display rack. 1,949,017; Feb. 27.
Knutson, Knut, deceased, Brooklyn, N. Y.; T. S. Knutson, administratrix. Increasing the rigidity of corrugated sheet material. 1,948,619; Feb. 27.
Knutson, Trine S., administratrix. (See Knutson, Knut.)
Kobel, Ernst, Ennetbaden, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electric current rectifier. 1,949,104; Feb. 27.
Koch, Gustav H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Welding apparatus. 1,948,763; Feb. 27.
Koch, Gustav H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding apparatus. 1,948,764; Feb. 27.
Koeberle, Karl. (See Kuns, M. A., and Koeberle.)
Kohn, Samuel, New York, N. Y. Display stand. Des. 91,631; Feb. 27.
Konski, Herbert D., New York, N. Y. Garment. 1,949,312; Feb. 27.
Koppitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. High tension switch. 1,949,018; Feb. 27.
Koppitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. High-tension switch. 1,949,019; Feb. 27.
Koppitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. High tension switch. 1,949,164; Feb. 27.
Kornbau, Kennard, New York, N. Y. Architectural metal work. 1,948,721; Feb. 27.
Köster, Werner, Dortmund, assignor to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Improving cobalt-molybdenum alloys. 1,949,313; Feb. 27.
Kraenzlein, Georg, and A. Voss, Frankfort-on-the-Main-Hochst, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Phenol ethers and preparing them. 1,948,667; Feb. 27.
Kramar, Ernst, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof Germany. Radio direction finder. 1,949,256; Feb. 27.
Kramer, Gustav A., Oakland, and L. Rosenstein, assignors to Shell Development Company, San Francisco, Calif. Preparation of nitrogenous products. 1,948,968; Feb. 27.
Kramer, Herman. (See Boylan, D. W., Kramer, and Jansen.)
Krünzlein, Georg, and H. Vollmann, Hochst-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Condensation product of the pyrenquinone series and preparing it. 1,948,926; Feb. 27.
Kreisinger, Henry, Piermont, assignor to International Combustion Engineering Corporation, New York, N. Y. Separating system. 1,949,279; Feb. 27.
Kreusler, Herman, Los Angeles, Calif. Display mechanism. 1,949,020; Feb. 27.
Kreutzer, Albert F. (See Harsen, Fred S., assignor.)
Krieger, Julius P., Louisville, Ky. Cigarette case. 1,949,105; Feb. 27.
Küchler, Franz A., Frankenhausen-Gosel, Germany. Distributor for finely divided material. 1,948,668; Feb. 27.
Kuhn, Frank, and L. H. Thomas, assignor to American Electrical Heater Company, Detroit, Mich. Toaster. 1,949,124; Feb. 27.
Kulicke, Frederick W., Philadelphia, Pa., assignor, by mesne assignments, to The Electrolock Manufacturing Company, Vicksburg, Miss. Lock. 1,948,765; Feb. 27.
Kunz, Max A., Mannheim, and K. Koeberle, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Bromination products of the dibenzanthrone series. 1,949,209; Feb. 27.
Kurowski, Alfred G. F., Brooklyn, assignor to Elliott-Fisher Company, New York, N. Y. Combined typewriting and computing machine. 1,948,722; Feb. 27.
Kutter, Herman L., assignor to The Black-Clawson Company, Hamilton, Ohio. Clutch. 1,949,053; Feb. 27.
La Chance, Leander H., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Hair clipper. 1,949,054; Feb. 24.
Ladd, Frank C., Turners Falls, Mass. Apparatus for drying paper. 1,949,125; Feb. 27.
Lamble, John A., assignor of one-half to West Coast Pipe and Steel Co., Los Angeles, and one-half to Rain Machine, Ltd., Lompoc, Calif. Flexible irrigated pipe coupling. 1,949,055; Feb. 27.
Laminated Shim Co. (See Darrach, Bradford, assignor.)

Land O'Lakes Creameries, Inc. (See Johnson, Alex., assignor.)
Lane, Cuthbert C., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric switching device. 1,948,969; Feb. 27.
Lane, Francis C. (See Miller, L. H., and Lane.)
Langhaar, Louis, Allentown, Pa. Antifriction bearing. 1,948,860; Feb. 27.
Lapaley, Robert, Detroit, assignor to Clark Equipment Company, Buchanan, Mich. Transmission. 1,948,723; Feb. 27.
Larkin, Walter, Norristown, Pa., assignor to Fidelity Machine Company, Wilmington, Del. Cylinder controling mechanism for knitting machines. 1,949,314; Feb. 27.
Laroche, Eugene, assignor to Paramount Publix Corporation, New York, N. Y. Printing mechanism. 1,949,389; Feb. 27.
Larson, John M., assignor to National Regulator Company, Chicago, Ill. Two-level temperature thermostat. 1,949,210; Feb. 27.
Larson, Oscar P. (See Carlson, G. E., Larson, and Swenson.)
Lasker, Charles H., Joliet, Ill. Water-sealed receptacle. 1,948,820; Feb. 27.
Lässker, Jean, assignor to Societe Anonyme Adolphe Saurer, Arbon, Switzerland. Multicell shuttle box for looms. 1,949,056; Feb. 27.
Latham, George H. (See Hunt, J. K., and Latham.)
Laufe, Henry C., Bogota, N. J. Shaving receptacle. 1,948,987; Feb. 27.
Laun, Carl H., assignor to Kiel Furniture Co., Milwaukee, Wis. Furniture construction. 1,948,724; Feb. 27.
Lauterbur, Edward J. (Lauterbur, Frank X. and E. J.)
Lauterbur, Frank X., deceased, Sidney, Ohio, and E. J., W. S., and L. V. Lauterbur, executors. Dough working machines. 1,949,105; Feb. 27.
Lauterbur, Leo V., executor, et al. (See Lauterbur, Frank.)
Lauterbur, Wilhelmina S., executor, et al. (See Lauterbur, Frank.)
Lawson, Axel A. (See Miner, G. A., and Lawson.)
Lawson, Axel A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 1,948,525; Feb. 27.
Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Dial knitting machine. 1,949,390; Feb. 27.
Lawton, Harvey B., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Electric switch. 1,949,938; Feb. 27.
Lebo, Robert B., Elisabeth, N. J., assignor to Standard Alcohol Company. Purification of secondary alcohols. 1,949,211; Feb. 27.
Lee, Clifford C., Aberdeen, S. Dak. Valve seat grinder. 1,948,792; Feb. 27.
Lee, James E., and F. Barney, assignors to The Challenge Machinery Company, Grand Haven, Mich. Printer's quoin. 1,948,821; Feb. 27.
Leeds & Northrup Company. (See Martin, William G., assignor.)
Legge, Alfred G., Brockton, Mass. Shoe form. 1,948,621; Feb. 27.
Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber article and making the same. 1,949,057; Feb. 27.
Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Dispensing bottle stopper. 1,949,058; Feb. 27.
Lehon Company, The. (See Moone, Albert E. F., assignor.)
Lessard, Theo. (See Marcoux, Emile, assignor.)
Lester, Stephen T., Cleveland, Ohio. Measuring apparatus. 1,949,280; Feb. 27.
Le Tourneau, Robert G., Stockton, Calif. Adjustable leveler blade mounting. 1,949,059; Feb. 27.
Leuser, Josef, Pforzheim, assignor to Deutsche Gold- und Silber-Scheideanstalt, vormals Roessler, Frankfort-on-the-Main, Germany. Device for casting by centrifugal force. 1,949,021; Feb. 27.
Levernier, Martin W., Winnetka, Ill. Portable foot pedal soap dispenser. 1,949,315; Feb. 27.
Lewis, Richard B., jr., St. Cloud, Minn, assignor to Aluminum Industries, Inc., Cincinnati, Ohio. Making valves. 1,948,793; Feb. 27.
Libbey-Owens-Ford Glass Company. (See Cone, Carroll, assignor.)
Libbey-Owens-Ford Glass Company. (See Drake, John L., assignor.)
Libbey-Owens-Ford Glass Company. (See Hullhorst, William G., assignor.)
Light, Albert T., Canton, Ohio, assignor to York Ice Machinery Corporation, York, Pa. Milk cooler. 1,949,126; Feb. 27.
Light, Albert T., Canton, Ohio, assignor to York Ice Machinery Corporation, York, Pa. Heat exchanger. 1,949,127; Feb. 27.
Lightner, Eugene O., Washington, D. C. Arc lamp. 1,948,669; Feb. 27.
Liles, Thomas O., Dallas, Tex., assignor to Liles-motor Corporation. Parallel steam engine. 1,948,526; Feb. 27.
Lilesmotor Corporation. (See Liles, Thomas O., assignor.)
Lilly, Eli and Company. (See Jones, Frank G., assignor.)
Limousine Body Company. (See Menton, Stanley, assignor.)
Limpach, Otto. (See Kalischer, G., Limpach, and Hager.)

Lindblom, Carl A., assignor to General Motors Research Corporation, Detroit, Mich. Multiple shoe brake. 1,948,822; Feb. 27.
Lindgren, Alexus C., Chicago, and C. R. Raney, Riverside, Ill., assignors to International Harvester Company. Windrow harvester. 1,948,927; Feb. 27.
Lindgren, Waldemar L., Waukegan, assignor to Hoeft & Company, Inc., North Chicago, Ill. Fertilizer and like spreader. 1,948,861; Feb. 27.
Lindner, Karl A., Perth Amboy, N. J., assignor to American Smelting & Refining Company, New York, N. Y. Dezincing machine. 1,949,391; Feb. 27.
Lindner, Karl A., Roselle Park, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Reacting gases with liquids. 1,949,392; Feb. 27.
Lindqvist, John, et al. (See Youlten, H., Lindqvist, and Berglund, assignors.)
Lindqvist, Magnus. (See Youlten, H., Lindqvist, and Berglund.)
Lindstrom Tool & Toy Company, The. (See Casler, Herman, assignor.)
Line Material Company. (See Schultz, William O., assignor.)
Link John H., Merion, Pa., assignor to W. H. Miner, Inc., Chicago, Ill. Draft and buffing gear. 1,949,060; Feb. 27.
Lissy, William, Spokane, Wash. Fish lure. 1,948,823; Feb. 27.
Littlefield, Carl, assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich. Slicing machine. 1,948,622; Feb. 27.
Lockett, Andrew M., New Orleans, La. Massaging implement. 1,949,316; Feb. 27.
Lodeesen, Herman J. (See Tanner, R. R., and Lodeesen.)
Loeffler, Rudolph W., Baltimore, Md. Metal covered brick. 1,949,079; Feb. 27.
Lorentz, Alfred, Mainz-Gustavsburg, assignor to Maschinenfabrik Augsburg-Nurnberg, A.-G., Nuremberg, Germany. Passenger lift for disk gasholders. 1,948,527; Feb. 27.
Lorenz, C., Aktiengesellschaft. (See Fischer, Wilhelm, assignor.)
Lorenz, C., Aktiengesellschaft. (See Kramar, Ernst, assignor.)
Louderback, Harry A., assignor of one-half to W. A. Gearing, Columbus, Ohio. Holder for safety razor blades. 1,948,623; Feb. 27.
Lower, Melvin S., Wadsworth, assignor to The Sun Rubber Company, Barberton, Ohio. Doll joint. 1,949,393; Feb. 27.
Lowther, Wilfred W., Minneapolis, assignor to Donaldson Company, Inc., St. Paul, Minn. Air cleaner. 1,949,212; Feb. 27.
Lucia, Louis V. (See Wolcott, F. E., and Lucia.)
Lucking, David F., Felixstowe, England, assignor to Temple N. Joyce, Dundalk, Md. Indicating the height of aircraft, particularly for use when the aircraft is landing. 1,949,166; Feb. 27.
Lupfer, James A., Tulsa, Okla. Liquid pressure equalizer. 1,948,988; Feb. 27.
Lyman, Walter H., and P. F. Fischel, assignors, by mesne assignments, to The International Check Endorser Co., Chicago, Ill. Check indorser. Re19,098; Feb. 27.
Lynch Corporation. (See Lynch, J. W., and Bridges, assignors.)
Lynch, James W., and E. G. Bridges, Anderson, Ind., assignors to Lynch Corporation. Glass blowing machine. 1,948,928; Feb. 27.
Lyon, George A., Allenhurst, N. J. Ornamental plate for wheels. 1,949,317; Feb. 27.
Lyon, Ray S., Woodside, assignor to United Research Corporation, New York, N. Y. Light sensitive cell. 1,948,766; Feb. 27.
Lyons, Frank and W. H., jr., Lodi, Calif. Decoy. 1,948,624; Feb. 27.
Lyons, William H., jr. (See Lyons, Frank and W. H., jr.)
Mace, James W., assignor of one-half to A. O. Wing, Rainier, Oreg. Animal trap. 1,948,586; Feb. 27.
MacPherson, Earle S., assignor to Hupp Motor Car Corporation, Detroit, Mich. Lubricating system. 1,948,929; Feb. 27.
Macready, John A., and W. H. Matthews, assignors to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,948,587; Feb. 27.
Mahan, John E., et al. (See King, George W., assignor.)
Makowsky, Jacques, Paris, France. Receptacle. 1,948,794; Feb. 27.
Male, Gysbert V., Grand Rapids, Mich. Curtain stretcher. 1,949,061; Feb. 27.
Malfet, Camiel, Paterson, N. J. Cloth drying apparatus. 1,948,767; Feb. 27.
Malisoff, William M., assignor to The Atlantic Refining Company, Philadelphia, Pa. Purification of hydrocarbon oils. 1,948,528; Feb. 27.
Mandaville, Gurney L., Fort Pierce, Fla. Binoculator. 1,949,022; Feb. 27.
Manneschmidt, Jacob, jr., Brooklyn, N. Y. Pressure-regulating device for a hot-water-heating system. 1,949,106; Feb. 27.
Mansfield, Normal F., Hasbrouck Heights, N. J., and G. S. Gotteaman, New York, N. Y., assignors to The Ohio Match Company, Wadsworth, Ohio. Display container. 1,949,376; Feb. 27.
Marcoux, Emile, assignor of one-half to Theo Lessard, Limollou, Quebec, Canada. Cash and check collecting receptacle. 1,948,862; Feb. 27.

Markowsky, Fritz, Cologne, Surth, Germany. Footwear. 1,949,318; Feb. 27.

Marriott, Frank, and C. Neklutin, Ferguson, Mo. Camtooth-generating mechanism. 1,949,062; Feb. 27.

Marshall Field & Company. (See Kephart, Samuel N., assignor.)

Marshall, Irl H., Racine, Wis., assignor to Clements Mfg. Co., Chicago, Ill. Display stand. 1,949,023; Feb. 27.

Marshall, R. W. Company. (See Martin, Thomas.)

Martin, Glenn L., Company, The. (See Milburn, Lessiter C., assignor.)

Martin-Parry Corporation. (See Buquor, Adolph P., assignor.)

Martin, Thomas, assignor of one-half to R. W. Marshall Company, Inc., New York, N. Y. Automobile pit. 1,949,394; Feb. 27.

Martin, William G., assignor to Leeds & Northrup Company, Philadelphia, Pa. Optical system. 1,948,588; Feb. 27.

Marwede, Richard L., assignor to The Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 91,633; Feb. 27.

Maschinenfabrik Augsburg-Nurnberg A. G. (See Lorentz, Alfred, assignor.)

Maschinenfabrik Johannisberg G. m. b. H. (See Albrecht, Karl, assignor.)

Mason, Donald B., Catonville, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y. Precipitation and treatment of cellulose derivatives. 1,948,625; Feb. 27.

Mason, Donald B., Catonsville, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y. Precipitation of cellulose esters. 1,949,213; Feb. 27.

Mason, Donald B., Catonsville, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y. Apparatus for precipitation of cellulose esters. 1,949,214; Feb. 27.

Massey Concrete Products Corporation. (See Gilman, Charles, assignor.)

Massey Concrete Products Corporation. (See Robertson, Walter H., assignor.)

Matthews, William H. (See Macready, J. A., and Matthews.)

Mattix, Charles D., Beacon, Iowa. Controllable hood for wind stackers of grain separators. 1,948,930; Feb. 27.

Maxwell, William H., et al. (See Hopkins, Samuel R., assignor.)

Maybach, Karl, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Bodensee, Germany. Change speed gearing. 1,949,167; Feb. 27.

Maybach, Karl, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Germany. Change speed gear. 1,949,168; Feb. 27.

Maybach-Motorenbau G. m. b. H. (See Maybach, Karl, assignor.)

Mazzoli, Joseph. (See Schenck, W. P., and Mazzoli.)

McAdams, Harry, Atlantic City, N. J. Terry loop knitted fabric. 1,949,319; Feb. 27.

McCabe, John J., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Tub. Des. 91,632; Feb. 27.

McCaig, Robert L., assignor to M. Hughes, Toledo, Ohio. Building construction. 1,949,215; Feb. 27.

McClintock, John D., assignor to William Sellers & Company Incorporated, Philadelphia, Pa. Safety connection. 1,948,725; Feb. 27.

McConkey, Thomas C., Montreal, Quebec, Canada, assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake gear support. 1,948,529; Feb. 27.

McCray Refrigerator Company. (See Hopkins, George J., assignor.)

McCrea, Charles L., Washington, D. C. Electrical conductor. 1,949,169; Feb. 27.

McDonald, William L., Geneva, N. Y. Valve control for power operation of levers. 1,948,726; Feb. 27.

McEwan, John, assignor of one-half to J. J. Kelly, Trenton, N. J. Process of and apparatus for molding articles. 1,948,989; Feb. 27.

McIntosh, Henry. (See Kasten, J. H., and McIntosh.)

McInturff, Jeff. (See Cox, Albert P., assignor.)

McMickle, Alda, Redmond, Oreg. Measuring non-spilling creamer attachment for coffee cups. 1,948,932; Feb. 27.

McMurray, John C., Winthrop Center, Mass. Testing device for internal combustion engines. 1,948,882; Feb. 27.

McNairy, Jacob W., Erie, Pa., assignor to General Electric Company. Power system. 1,949,216; Feb. 27.

McNaney, Edward T., Baltimore, Md. Oyster packing apparatus. 1,949,170; Feb. 27.

Mears, Charles J., Rumson, N. J. Form for concrete catch basins or the like. 1,948,931; Feb. 27.

Mechanical Research Company. (See Carlson, G. E., Larson, and Swenson, assignors.)

Meginniss, Francis R., Albany, N. Y. Switch. 1,948,727; Feb. 27.

Meginniss, Francis R., Albany, N. Y. Switch. 1,948,728; Feb. 27.

Meidrum, Alexander, assignor, by mesne assignments, to Smith Hood & Seal Corporation, Syracuse, N. Y. Bottle capping machine. 1,949,377; Feb. 27.

Melik-Minasslantz, Raphael, Paris, France. Dial arrangement applicable to various apparatus. 1,949,024; Feb. 27.

Melind, Louis, Chicago, Ill. Securing members together. 1,949,171; Feb. 27.

Melville, Phillips. (See Samiran, David, assignor.)

Mendoza, Mordecai, West Didsbury, and A. G. Murray, Whitefield, England, assignors to Imperial Chemical Industries Limited. Compositions and solutions for use in dyeing and textile printing. 1,948,589; Feb. 27.

Menton, Stanley, assignor to Limousine Body Company, Kalamazoo, Mich. Strike plate. 1,948,863; Feb. 27.

Mercury Manufacturing Company. (See Schroeder, William, assignor.)

Mergenthaler Linotype Company. (See Frolander, Frank C., assignor.)

Merrill, Allan B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Artificial turf. 1,949,063; Feb. 27.

Merritt, Henry E., assignor of one-half to David Brown & Sons (Huddersfield) Limited, Huddersfield, England. Worm gearing. 1,948,795; Feb. 27.

Mershon, Ralph D., New York, N. Y. Maintaining voltage balance in electrolytic condensers. 1,948,864; Feb. 27.

Metal Finishing Research Corporation. (See Tanner, R. R., and Lodeesen, assignors.)

Metlox Corporation. (See Prouty, Willis O., assignor.)

Meyer, Francis T., Montclair, N. J., assignor to The Meyer-Sniffen Company, New York, N. Y. Water closet bowl. 1,948,970; Feb. 27.

Meyer, Francis T., Montclair, N. J., assignor to The Meyer-Sniffen Company, New York, N. Y. Combination fixture. 1,948,971; Feb. 27.

Meyer-Sniffen Company, The. (See Meyer, Francis T., assignor.)

Midland Steel Products Company. (See Riemenschneider, Ernest, assignor.)

Milburn, Lessiter C., Towson, assignor to The Glenn L. Martin Company, Baltimore, Md. Transoceanic flying boat. Des. 91,634; Feb. 27.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Worm cutting machine. 1,948,530; Feb. 27.

Miller, Harold D., Rochester, N. Y. Outlet and connection. 1,948,933; Feb. 27.

Miller, Jesse B., Toledo, Ohio, assignor to Whitehead & Kales Company, River Rouge, Mich. Transporting vehicles and the like. 1,949,172; Feb. 27.

Miller, John H., Oak Park, assignor to Jewell Electrical Instrument Company, Chicago, Ill. Radio set testing apparatus. 1,948,729; Feb. 27.

Miller, Leon H., Greencastle, and F. C. Lane, Bainbridge, Ind. Ring clincher. 1,948,865; Feb. 27.

Miller, Louis J., Cincinnati, Ohio, assignor to United Autographic Register Co., Chicago, Ill. Shiftable carbon roll. 1,949,173; Feb. 27.

Miner, George A., Medford, and A. A. Lawson, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon the soles of shoes. 1,948,531; Feb. 27.

Miner, W. H., Inc. (See Link, John H., assignor.)

Miner, W. H., Inc., et al. (See O'Connor, John F., assignor.)

Mineralite Corporation. (See Kitsee, Isidor, assignor.)

Mitchell, John H., Bronxville, N. Y. Air moistener. 1,949,320; Feb. 27.

Mitlehner, Anton, College Point, N. Y. Hair brush. 1,948,990; Feb. 27.

Möhring, Albert. (See Correns, E., and Möhring.)

Moir, William L. (See Kinkead, G. B., and Moir.)

Molden, Arthur. (See Dunlap, Marshall N., assignor.)

Molly, Hans, assignor to Zahnradfabrik Friedrichshafen Aktiengesellschaft, Friedrichshafen, Germany. Brake lever construction. 1,948,991; Feb. 27.

Montgomery, Charles J., et al. (See Montgomery, James A., assignor.)

Montgomery, Eloise S., et al. (See Montgomery, James A., assignor.)

Montgomery, Fred A., et al. (See Montgomery, James A., assignor.)

Montgomery, James A., assignor to F. A., C. J., and E. S. Montgomery, and R. M. Philips, Birmingham, Ala. Coal-washing machine. 1,949,174; Feb. 27.

Moon, Ralph L. (See Berry, R. F., and Moon.)

Moone, Albert E. F., Chicago, Ill., assignor to The Lehon Company. Printing and slitting machine. 1,948,590; Feb. 27.

Moore, Richard C., assignor to The Coe Manufacturing Company, Painesville, Ohio. Feeder. 1,949,281; Feb. 27.

Morey, George W., Chevy Chase, Md., assignor to Philadelphia Quartz Company, Philadelphia, Pa. Sodium-sesqui-silicate and forming the same. 1,948,730; Feb. 27.

Morgan, Frank I., Holtwood, Pa. Electrical governor. 1,948,591; Feb. 27.

Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)

Morimura Bros. Inc. (See Buma, Yukio, assignor.)

Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Die-casting machine. 1,948,992; Feb. 27.

Morris, Thomas C. (See Schur, M. O., Hoos, and Morris.)

Mosfelt, Harold T., and H. Schagerholm, assignors to Ross J. Beatty, Chicago, Ill. Apparatus for holding and feeding typewriter ribbons. 1,949,107; Feb. 27.

Mosler Safe Co. (See Murtaugh, John J., jr., assignor.)

Mueller, Herman H., New Holland, assignor to Vanity Fair Silk Mills, Reading, Pa. Knitted shaped bust section. 1,948,670; Feb. 27.

Müller, Erich, Magdeburg-Sudenburg, Germany. Rotating shears with movable nonoperated knives for cutting running material of any required length. 1,948,796; Feb. 27.

Multipost Co. (See Gay, Azel, assignor.)

Murch, John H., East Orange, N. J., assignor to American Can Company, New York, N. Y. Sheet metal strip used in the art of cutting circular and other nonrectangular blanks. 1,948,532; Feb. 27.

Murchison, C. W., et al. (See Fries, Nestor, assignor.)

Murphy, John P., La Crosse, Kans. Window sash lock. 1,949,025; Feb. 27.

Murphy, Walter P., assignor to Union Metal Products Company, Chicago, Ill. Hopper car construction. 1,949,080; Feb. 27.

Murray, Arthur G. (See Mendoza, M., and Murray.)

Murray Corporation of America, The. (See Avery, Clarence W., assignor.)

Murray, Thomas F., New York, N. Y. Folding chair. 1,949,282; Feb. 27.

Murtaugh, John J., jr., Floral Park, N. Y., assignor to Mosler Safe Co., Hamilton, Ohio. Depository. 1,949,283; Feb. 27.

Myers, Harry A., Franklin, Pa. Weather-strip. 1,949,321; Feb. 27.

N. V. Philips' Gloeilampenfabrieken. (See Bouwers, Albert, assignor.)

N. V. Philips' Gloeilampenfabrieken. (See Holst, Gilles, assignor.)

Naamlooze Vennootschap de Bataafsche Petroleum, Maatschappij. (See van Peski, Adrianus J., assignor.)

Naamlooze Vennootschap "Morpheus". (See Beurschgens, Lambertus, assignor.)

Nakano, Rikio, Honolulu, Hawaii. Ignition point file. 1,949,128; Feb. 27.

Nakken Patents Corporation. (See Nakken, Theodorus H., assignor.)

Nakken, Theodorus H., Brooklyn, N. Y., assignor to Nakken Patents Corporation. Harmonic neutralizing amplifier. 1,949,217; Feb. 27.

Nardone, Romeo M., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Engine controlling apparatus. 1,948,993; Feb. 27.

Nathan, Herbert J., Bismarck, N. Dak. Power plant mounting. 1,949,064; Feb. 27.

National Aniline & Chemical Company. (See Cotton, William J., assignor.)

National Aniline & Chemical Co. (See Spalding, William L., assignor.)

National Regulator Company. (See Larson, John M., assignor.)

National Tile Company, The. (See Bower, James A., assignor.)

National Ventilating Window Lock Company. (See Repass, Walter C., assignor.)

Naunton, William J. S. (See Bunbury, H. M., Naunton, and Palmer.)

Neely, George L., Berkeley, Calif. Spraying device. 1,948,533; Feb. 27.

Neklutin, Constantine. (See Marriott, F., and Neklutin.)

Nelson, Myron A., and E. W. Henry, Cheyenne, Wyo. Foot muscle exerciser. 1,948,534; Feb. 27.

Nelson, William L., assignor to C. Pistorius, Chicago, Ill. Cake knife. 1,948,592; Feb. 27.

Netzel, Frank M., assignor to Frost Rubber Works, Chicago, Ill. Manufacturing strip sponge rubber. 1,949,175; Feb. 27.

Neuhausen, Sebastian P., Lombard, Ill. Window construction. 1,949,257; Feb. 27.

Neumer, Ferdinand, assignor to Jacob Ruppert, New York, N. Y. Bottle opener. Des. 91,635; Feb. 27.

New England Lace Mills, Inc. (See Edson, Bert, assignor.)

Newman, David F., Freeport, assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y. Cover arrangement for a projection booth porthole. 1,948,972; Feb. 27.

Nicolai, Otto K., Wallace, Idaho. Miner's pan. 1,948,797; Feb. 27.

Nineteen Hundred Corporation. (See Behan, Thomas W., assignor.)

Nitka, John H., St. Louis, Mo. Fuel saver. 1,949,026; Feb. 27.

Noack, Walter G., assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Heating system. 1,948,535; Feb. 27.

Noack, Walter G., assignor to Aktiengesellschaft Brown Boveri & Cie. Baden, Switzerland. Steam superheater. 1,948,939; Feb. 27.

Noack, Walter G., assignor to Brown Boveri & Cie, Baden, Switzerland. Steam generator. 1,948,940; Feb. 27.

Noack, Walter G., assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Heating system. 1,948,536; Feb. 27.

Noack, Walter G., assignor to Aktiengesellschaft Brown Boveri & Cie. Baden, Switzerland. Steam generator. 1,948,537; Feb. 27.

Noack, Walter G., assignor to Aktiengesellschaft Brown Boveri & Cie. Baden, Switzerland. Steam generator. 1,948,538; Feb. 27.

Noack, Walter G., assignor to Aktiengesellschaft Brown Boveri & Cie. Baden, Switzerland. Steam generator. 1,948,539; Feb. 27.

Noack, Walter G., assignor to Aktiengesellschaft Brown Boveri & Cie. Baden, Switzerland. Steam generator. 1,948,540; Feb. 27.

Noack, Walter G., assignor to Aktiengesellschaft Brown Boveri et Cie. Baden, Switzerland. Steam generator. 1,948,541; Feb. 27.

Norge Corporation. (See Blood, H. E., and Brandel, assignors.)

Norris, W. C. (See Colgin, Rufus A., assignor.)

North Electric Manufacturing Company, The. (See Boswau, Hans P., assignor.)

North and Judd Manufacturing Company. (See Freysinger, John B., assignor.)

Norton, Charles W. (See Coxhead, R. C., and Norton.)

Norton Company. (See Dunbar, Howard D., assignor.)

Norton Company. (See Norton, C. H., and Flygare, assignors.)

Norton, Charles H., Plainville, Conn., and C. G. Flygare, assignors to Norton Company, Worcester, Mass. Car wheel grinding machine. 1,948,866; Feb. 27.

Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,949,176; Feb. 27.

Nycum, Homer C. (See Evans, R. D., and Nycum.)

Nygaard, Oscar, Saugus, Mass. Furnace wall. 1,948,798; Feb. 27.

Oakes Products Corporation. (See Flanders, Fred L., assignor.)

O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, of one-half to W. H. Miner, Inc., and one-half to Cardwell Westinghouse Company. Friction shock absorbing mechanism. 1,948,883; Feb. 27.

O'Connor, Martin, Brooklyn, N. Y. Nozzle. 1,948,824; Feb. 27.

Oehme, Hermann, assignor to Chemische Fabrik Kalk, Gesellschaft mit beschrankter Haftung, Cologne-Kalk, Germany. Conversion of the gypsum contained in superphosphate into ammonium sulphate. 1,949,129; Feb. 27.

Offutt, James S. (See Ericson, R., Offutt, and Parsons.)

O'Hara, Bernard, and W. Herring, Oklahoma City, Okla. Switch. 1,949,322; Feb. 27.

Ohio Match Company, The. (See Mansfield, N. F., and Gottesman, assignors.)

Oilgear Company. (See Ferris, Walter, assignor.)

O'Keefe, George W., New Rochelle, N. Y., assignor to Filtration Engineers, Inc., Newark, N. J. Filtering apparatus and process. 1,948,947; Feb. 27.

Olin, Henry. Minneapolis, Minn. Water heater. 1,948,731; Feb. 27.

Olpin, Albert R., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electro-optical system. 1,948,941; Feb. 27.

Olson, Alex H. (See Droll, J. W., and Olson.)

Olson, Gunar. (See Vaughan, H. A., Olson, and Erickson.)

O'Rourke, John F., New York, N. Y. Submarine airlock. 1,948,934; Feb. 27.

Osborn Manufacturing Company, The. (See Oyster, Earl F., assignor.)

Osborn, Roy T., et al. (See King, George W., assignor.)

Otis, Herbert C., Shreveport, La. Method of and apparatus for controlling gas wells. 1,949,323; Feb. 27.

O'Toole, Edward, sr., Gary, W. Va. Apparatus for dry cleaning of coal. 1,949,324; Feb. 27.

Otto, Carl, Essen-Ruhr, Germany. Device for controlling agents of combustion. 1,949,177; Feb. 27.

Overton, Samuel E., South Haven, Mich. Frame. 1,949,081; Feb. 27.

Owens-Illinois Glass Company. (See Soubier, Leonard D., assignor.)

Owens, Samuel H., Altoona, Pa. Movable stop mechanism. 1,949,218; Feb. 27.

Oyster, Earl F., Shaker Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Air operated clamp. 1,948,799; Feb. 27.

Oyster, Earl F., Shaker Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Adjustable flask bar and gagger combined. 1,948,867; Feb. 27.

Pack, Dean A., Gloucester, Mass. Gas valve lock. 1,949,178; Feb. 27.

Packard Motor Car Company. (See Christman, John M., assignor.)

Palmer, Keith W. (See Bunbury, H. M., Naunton, and Palmer.)

Palter-De Liso, Inc. (See De Liso, Vincent, assignor.)

Pancoe, George W., Brooktondale, N. Y., assignor to Thomas-Morse Aircraft Corporation. Airplane cowl fastener. 1,949,027; Feb. 27.

Panhandle Refining Company. (See Sims, W. F., and Cloer, assignors.)

Papert, Reuben. (See Harte, Frank, assignor.)

Paramount Publix Corporation. (See Laroche, Eugene, assignor.)

Parsons, Joseph R. (See Ericson, R., Offutt, and Parsons.)

Patent and Licensing Corporation, The. (See Kirschbraun, Lester, assignor.)

Patent Button Company, The. (See Carley, Leonard R., assignor.)

Patterson, Morehead, New York, N. Y., assignor to American Machine & Foundry Company. Cigarette package. 1,948,593; Feb. 27.

Patterson, Morehead, New York, and R. F. Rundell, Rockville Center, N. Y., assignors to International Cigar Machinery Company. Treating cigar bunches. 1,948,626; Feb. 27.

Patterson, Samuel A., assignor to Albert P. Grommesch, Seattle, Wash. Treating an Irish potato to remove the corky layer and the product thereof. 1,948,884; Feb. 27.

Paul, Percy V., West Concord, Sydney, Australia. Construction of sporting articles. 1,949,325; Feb. 27.
Paul, William E., Schenectady, assignor to General Electric Company. Electric circuit breaker. 1,949,258; Feb. 27.
Pauly Jail Building Company. (See Tracy, Michael J., assignor.)
Paxton Credit Corporation. (See Paxton, Hale, assignor.)
Paxton, Hale, Redlands, assignor to Paxton Credit Corporation, Sangor, Calif. Method of and apparatus for nailing crates. 1,949,108; Feb. 27.
Peabody Engineering Corporation. (See Peabody, Ernest H., assignor.)
Peabody, Ernest H., assignor to Peabody Engineering Corporation, New York, N. Y. Air register for fuel burners. 1,948,627; Feb. 27.
Pearson, George, Crystal Lake, Ill., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Socket. 1,949,359; Feb. 27.
Pearson, Oscar A. (See Thordarson, C. H., and Pearson.)
Peckham, Edwin C., New York, N. Y. Musical toy or instrument. 1,949,284; Feb. 27.
Peerless Roll Leaf Co. (See Wickwire, Arthur M., jr., assignor.)
Penick, Arthur J. and K. T., Houston, Tex. Valve mechanism. 1,948,628; Feb. 27.
Penick, Kirby T. (See Penick, Arthur J. and K. T.)
Pennsylvania Crusher Company. (See Borton, George W., assignor.)
Pennsylvania Lubricating Company. (See Walker, Harold W., assignor.)
Pennsylvania Railroad Company, The. (See Showers, L. M., jr., and Chambers, assignors.)
Pereira, William L., et al. (See Ring, R., Pereira, and Horsley.)
Perkins, Granville A. (See Young, C. O., and Perkins.)
Perrine, Lester E., assignor to General Motors Research Corporation, Detroit, Mich. Carbureting apparatus. 1,948,825; Feb. 27.
Peters, Frederick W., Cleveland, Ohio. Flexible coupling. 1,948,868; Feb. 27.
Petersen, Christen J., Chicago, Ill. Floor mat or floor covering. 1,948,826; Feb. 27.
Petersen, Clarence H., et al. (See Youlten, H., Lindqvist, and Berglund, assignors.)
Peterson, Francis O., Stillwater, Minn. Office furniture. 1,949,326; Feb. 27.
Peterson, Gustave A. (See Charman, W. M., and Peterson.)
Peterson, Pontus, Hempstead, N. Y., assignor to International Cigar Machinery Company. Leaf guide for cigar filler feeds. 1,948,594; Feb. 27.
Petitclaire, Louis. (See Kettlewell, H. E., and Petitclaire.)
Petroleum Heat and Power Company. (See Schenck, W. P., and Mazzoli, assignors.)
Pfauser, Edward M., assignor to Blackhawk Manufacturing Company, Milwaukee, Wis. Coupling for socket wrenches. Re19,093; Feb. 27.
Philad Company, The. (See Decker, George, assignor.)
Philadelphia Quartz Company. (See Morey, George W., assignor.)
Phillips, Ruth M., et al. (See Montgomery, James A., assignor.)
Philips' N. V., Gloielampenfrabrieken. (See Bouwers, Albert, assignor.)
Picard, Pierre, Neuilly, France. Manicuring instrument. 1,949,327; Feb. 27.
Pier, Mathias, Heidelberg, K. Wissel, Ludwigshafen-on-the-Rhine, and W. Dinkler, Mannheim, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Reaction with hydrogen and in apparatus therefor. 1,949,109; Feb. 27.
Pierce Governor Company. (See Biddle, Farrell D., assignor.)
Pierce, Raymond C., Bronxville, N. Y., assignor to York Ice Machinery Corporation, York, Pa. Production of solid carbon dioxide. 1,949,179; Feb. 27.
Pinkerton, David W., Eustis, Fla. Calendar. 1,949,328; Feb. 27.
Pinson, Newt A., St. Louis County, Mo. Pull clamp. 1,948,869; Feb. 27.
Pistorius, Conrad. (See Nelson, William L., assignor.)
Pitts, Harold, Spokane, Wash. Airplane. 1,948,629; Feb. 27.
Plastic Products, Inc. (See Randall, George M., assignor.)
Plechl, Otto, Pfaffstatten, near Vienna, Austria, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Supervisory illuminated control diagram. 1,949,110; Feb. 27.
Pochin, Horace S., Leicester, England. Treatment of leather or like material. 1,948,994; Feb. 27.
Pointon, John E., and L. S. Harber, Westwood Works, Peterborough, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Mold actuating mechanism. 1,948,870; Feb. 27.
Pokorny, Ernst, Leipzig, assignor to I. G. Farbenindustrie, Aktiengesellschaft, Frankfort-on-the-Main, Germany. Obtaining heavy-metal beryllium alloys. 1,949,082; Feb. 27.
Porter, Kirk E., assignor to The Buckeye Aluminum Company, Wooster, Ohio. Service tray. 1,949,285; Feb. 27.
Potter, Ralph K., Landing, N. J., assignor to American Telephone and Telegraph Company. Radiotransmission without distortion. 1,948,671; Feb. 27.
Pratt, Harry P., Chicago, Ill., assignor to W. F. Grower, H. A. Allen, G. S. Herrington, and H. T. Ballard, trustees acting with said H. P. Pratt, as co-trustees of Pratt Radio Trust. Radiotube. 1,949,395; Feb. 27.
Pratt Radio Trust. (See Pratt, Harry P., assignor.)
Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)
Price, Ralph H., Hammond, Ind., assignor to Standard Oil Company (Indiana), Chicago, Ill. Hydrogenation system. 1,948,732; Feb. 27.
Procesco, Limited. (See Trumble, M. J., and Seeley, assignors.)
Prosperity Company Inc., The. (See Davis, Ernest, assignor.)
Prouty, Willis O., Hermosa Beach, assignor to Metlox Corporation, Ltd., Manhattan Beach, Calif. Marquise structure. 1,948,768; Feb. 27.
Provident Trust Company of Philadelphia, et al., executors. (See Chance, Thomas M.)
Public, Dedicated to the free use of the. (See Tiemann, Harry D., assignor.)
Purdy, Kendall, Amityville, N. Y. Automatic time control system for radio receiving apparatus. 1,948,672; Feb. 27.
Pyzel, Robert, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of vapor-gas mixtures. 1,948,595; Feb. 27.
Quehl, Richard G., assignor to The Strong-Scott Mfg. Co., Minneapolis, Minn. Feed mixing machine. 1,948,871; Feb. 27.
Radio Corporation of America. (See Huffman, Charles E., assignor.)
Radium Dial Company. (See Kelly, Joseph A., assignor.)
Railway and Industrial Engineering Company. (See Koppitz, Carl G., assignor.)
Rain Machine, Ltd., et al. (See Lambie, John A., assignor.)
Ramet Corporation of America. (See Balke, Clarence W., assignor.)
Rand, Benjamin G., North Tonawanda, assignor to Remington Rand Inc., Buffalo, N. Y. Follower for filing devices. 1,948,935; Feb. 27.
Randall, George M., assignor to Plastic Products, Inc., Daytona Beach, Fla. Surgical suture. 1,949,111; Feb. 27.
Raney, Clemma R. (See Johnston, E. A., Raney, and Johnson.)
Raney, Clemma R. (See Lindgren, A. C., and Raney.)
Raybestos-Manhattan, Inc. (See Ross, Walter H., assignor.)
Read, John, St. Andrews, and W. J. Grubb, Anstruther Wester, Scotland. Manufacture of optically active menthols. 1,949,329; Feb. 27.
Redd, William R., Western Spring, Ill. Apparatus for treating and seasoning paper. 1,949,330; Feb. 27.
Redrup, Charles B., assignor to The Bristol Tramways & Carriage Company Limited, Bristol, England. Swash plate mechanism for engines. 1,948,827; Feb. 27.
Reed, William A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe finishing tool. 1,948,673; Feb. 27.
Reed, William A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Abrading tool. 1,948,674; Feb. 27.
Refrigeration Patents and Processes, Inc. (See Grayson, Ralph V.)
Regenold, Charlie S., sr., Memphis, Tenn. Amusement apparatus. 1,948,995; Feb. 27.
Reilly, Peter C. (See Derby, I. H., and Horner, assignors.)
Reindel, Hans. (See Winkeler, H., Reindel, and Von Rosenberg.)
Reis, Curt F., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Magneto. 1,948,828; Feb. 27.
Reis, Curt F., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Rotor for magnetos. 1,948,829; Feb. 27.
Remington Rand Inc. (See Rand, Benjamin G., assignor.)
Renfro, Grant, Covington, Ky. Measuring bottle. 1,949,130; Feb. 27.
Reo Motor Car Company. (See Furgason, Claude E., assignor.)
Repass, Walter C., assignor to National Ventilating Window Lock Company, Portland, Oreg. Sash lock. 1,948,542; Feb. 27.
Republic Flow Meters Company. (See Spitzglass, A. F., and Handwerk, assignors.)
Resinous Products & Chemical Co. (See Fonrobert, E., and Greth, assignors.)
Restein, Jules, assignor, by mesne assignments, to The Belmont Packing & Rubber Company, Philadelphia, Pa. Packing. 1,948,630; Feb. 27.
Rettich, Kurt, Toledo, Ohio, assignor, by mesne assignments, to The Reynolds Spring Company, Jackson, Mich. Picture frame. 1,949,180; Feb. 27.
Revelart, Auguste J., Carvin, France. Apparatus for removing stones from coal. 1,948,800; Feb. 27.
Revere Copper & Brass Incorporated. (See Dallas, Charles D., assignor.)
Reynolds Spring Company, The. (See Rettich, Kurt, assignor.)
Rhodes, Harold A., Montclair, N. J., assignor to American Telephone and Telegraph Company. Artificial line and attenuator of constant resistance. 1,948,675; Feb. 27.
Richards, Edward J., Philadelphia, Pa. Valve closure for collapsible tubes. 1,949,219; Feb. 27.

Richardson Company, The. (See Fisher, Harry C., assignor.)
Richardson Company, The. (See Keller, Charles L., assignor.)
Richardson, Frederick, Boston, Mass. Shoulder strap holder. 1,949,331; Feb. 27.
Riddell, John T., Evanston, Ill. Athletic shoe cleat fastener. 1,948,885; Feb. 27.
Riek, Forest O., Rhinelander, Wis. Valve. 1,948,676; Feb. 27.
Riemenschneider, Ernest, assignor to Midland Steel Products Company, Cleveland, Ohio. Method and apparatus for welding. 1,948,801; Feb. 27.
Riffe, Edna. (See Davis, Enoch A., assignor.)
Riley, Champlain L., North Plainfield, N. J., assignor to Industrial Associates, Inc., New York, N. Y. Sewage disposal. 1,949,181; Feb. 27.
Ring, Raymond, W. L. Pereira, and J. Horsley, Chicago, Ill.; said Pereira and Horsley assignors to said Ring. Illuminated make-up mirror. Des. 91,636; Feb. 27.
Ringwald, Clarence, Springfield, Ohio, assignor, by mesne assignments, to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse. Re19,097; Feb. 27.
Roberg, Otto, Philadelphia, Pa. Concrete mold construction. 1,949,083; Feb. 27.
Roberts Brass Manufacturing Company. (See Roberts, Earl W., assignor.)
Roberts, Earl W., assignor to Roberts Brass Manufacturing Company, Detroit, Mich. Pilot jet assembly. 1,949,182; Feb. 27.
Roberts, Thomas J., Rylstone, New South Wales, Australia. Gate hinge with leveling and tilting adjustment. 1,949,183; Feb. 27.
Robertson, John H. (See DeLuca, Ettore, assignor.)
Robertson, Walter H., North Plainfield, N. J., assignor to Massey Concrete Products Corporation, Chicago, Ill. Apparatus for installing and guiding pipe or the like. 1,948,733; Feb. 27.
Robichaux, Sosthene. (See Barrett, G. J., and Robichaux.)
Robichaux, Sosthene, Saratoga, and G. J. Barrett, Houston, Tex. Sample taking apparatus. 1,948,631; Feb. 27.
Robin, Philip T., Erie, Pa., assignor, by mesne assignments, to The Wellman Engineering Company, Cleveland, Ohio. Trailer hitch mechanism. 1,948,677; Feb. 27.
Robinson James M., Evansville, Ind. Sound reproducing device. 1,949,184; Feb. 27.
Rockford Drilling Machine Co. (See Carlson, Raymond A., assignor.)
Rockwell-Barnes Company. (See Salsman, Thomas J., assignor.)
Roehm, John G., Oneida, assignor, by mesne assignments, to Smith Hood & Seal Corporation, Syracuse, N. Y. Wire spool holder. 1,949,378; Feb. 27.
Roganson, David E., Short Beach, Conn. Extracting device. 1,949,185; Feb. 27.
Rogers, James N., Spokane, Wash. Traffic signal. 1,948,633; Feb. 27.
Romeis, Arthur J., and J. O. Gangstad, Chippewa Falls, Wis. Locked nut. 1,948,830; Feb. 27.
Rose, Charles E., Denver, Colo. Headlight reflector. 1,948,680; Feb. 27.
Rosenberg, David H., New York, N. Y. Bracket for curtain rods. 1,948,734; Feb. 27.
Rosenstein, Ludwig. (See Kramer, G. A., and Rosenstein.)
Rosenthal China Corporation, The. (See Marwede, Richard L., assignor.)
Ross, David E., assignor to Rostone Incorporated, La Fayette, Ind. Window construction. 1,948,678; Feb. 27.
Ross, David E., assignor to Rostone, Incorporated, La Fayette, Ind. Weather stripping. 1,948,679; Feb. 27.
Ross, Edwin D., Grosse Pointe Park, Mich. Window construction. 1,948,596; Feb. 27.
Ross, Frederick N., and H. L. Johnson, assignors to Briggs Manufacturing Company, Detroit, Mich. Broken cotton bat detector. 1,948,634; Feb. 27.
Ross, Walter H., Ramsey, assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Door strip and making. 1,948,942; Feb. 27.
Rostone Incorporated. (See Ross, David E., assignor.)
Rowe, Alvin V., assignor to Rowe Manufacturing Company, Galesburg, Ill. Overhead door construction. 1,948,769; Feb. 27.
Rowe, Alvin V., assignor to Rowe Manufacturing Company, Galesburg, Ill. Door construction. 1,948,770; Feb. 27.
Rowe Manufacturing Company. (See Rowe, Alvin V., assignor.)
Royle, Vernon, Paterson, N. J. Tubing machine. 1,949,084; Feb. 27.
Rucker, Grace G., Topeka, Kans. Device to strain hot cooked grease and contain same. 1,948,771; Feb. 27.
Rundell, Rupert E. (See Patterson, M., and Rundell.)
Rundell, Rupert E., Rockville Center, N. Y., assignor to International Cigar Machinery Company. Universal joint. 1,948,597; Feb. 27.
Rundell, Rupert E., Rockville Center, N. Y., assignor to International Cigar Machinery Company. Cigar bunch machine. 1,948,598; Feb. 27.
Ruppert, Jacob. (See Neumer, Ferdinand, assignor.)
Russell, Frederick W., Vallejo, Calif. Fishing reel. 1,948,886; Feb. 27.
Russo, Andrew, Fitchburg, Mass. Domestic water heater. 1,948,735; Feb. 27.
Rutherford, John T. (See Davis, W. N., and Rutherford.)
Ruthruff, Robert F., Hammond, Ind., assignor to Standard Oil Company (Indiana), Chicago, Ill. Hydrogenation system. 1,948,736; Feb. 27.
Salsman, Thomas J., assignor to Rockwell-Barnes Company, Chicago, Ill. Wound roll. 1,949,259; Feb. 27.
Samiran, David, Dayton, Ohio, assignor of one-half to Phillips Melville. Fluid segregator. 1,948,543; Feb. 27.
Sanders, Louise D., administratrix. (See Sanders, Walter M.)
Sanders, Walter M., deceased, by L. D. Sanders, administratrix, Montclair, N. J., assignor, by mesne assignments, to Kalunite Company. Manufacturing alumina. 1,948,887; Feb. 27.
Sanders, Walter M., deceased, Montclair, N. J., by L. D. Sanders, administratrix, assignor, by mesne assignments, to Kalunite Company. Manufacturing alumina. 1,948,888; Feb. 27.
Sandmann, Henry B., jr. (See Aman, F. A., and Sandmann.)
Sargent, Allston, Bronxville, assignor to Campbell Metal Window Corporation, New York, N. Y. Ventilating and air treating apparatus. 1,949,379; Feb. 27.
Sauer, George, Berwyn, assignor to Union Special Machine Company, Chicago, Ill. Binder support for sewing machines. 1,949,332; Feb. 27.
Saunders, Aaron A., Brockton, Mass. Attaching means for cleats. 1,949,333; Feb. 27.
Säureschutz Gesellschaft mit beschrankter Haftung. (See Wirth, Johann K., assignor.)
Sawyer, Albert F., assignor to I. L. Keith, Haverhill, Mass. Combined refrigerator and ice cream freezer. 1,948,681; Feb. 27.
Scarlett, Frank M., et al. (See Browning, Artie J., assignor.)
Schacht, Clifford A., Huntington, Ind. Spray head. 1,949,334; Feb. 27.
Schagerholm, Harold. (See Mosfelt, H. T., and Schagerholm.)
Schallenger, Newton C., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Socket. 1,949,358; Feb. 27.
Schenk, William P., and J. Mazzoli, Stamford, Conn., assignors to Petroleum Heat and Power Company, New York, N. Y. Oil burning apparatus. 1,949,260; Feb. 27.
Schick, Harvey W., Chicago, Ill. Building construction. 1,949,220; Feb. 27.
Schiff, Henry T., Chicago, Ill. Lighter. Des. 91,637; Feb. 27.
Schiller, Adolf, Berlin-Schoneberg, Germany. Manufacture of glassware. 1,948,682; Feb. 27.
Schlenker, Ernst, Berlin, Germany. Approximate separation of solid and liquid fatty acids. 1,948,683; Feb. 27.
Schmid, Oscar, and W. Heitzmann, Zurich, Switzerland. Heating device for vehicles. 1,948,772; Feb. 27.
Schneider, George. (See Dreyfus, C., and Schneider.)
Schorger, Arlie W., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Making artificial zeolites. 1,949,360; Feb. 27.
Schrader's, A., Son, Incorporated. (See Kirkpatrick, William J., assignor.)
Schreiber, Gustav, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Riveted plated aluminium article. 1,949,112; Feb. 27.
Schroeder, William, assignor to Mercury Manufacturing Company, Chicago, Ill. Industrial truck. 1,948,802; Feb. 27.
Schultz, William O., assignor to Line Material Company, South Milwaukee, Wis. Fuse. 1,949,186; Feb. 27.
Schulz, Arthur P. (See Teller, J., and Schulz.)
Schur, Milton O., assignor to Brown Company, Berlin, N. H. Producing nitrocellulose. 1,948,944; Feb. 27.
Schur, Milton O., B. G. Hoos, and T. C. Morris, assignors to Brown Company, Berlin, N. H. Conditioning paper for nitration. 1,948,943; Feb. 27.
Schwarcman, Alexander, assignor to Spencer Kellogg and Sons, Inc., Buffalo, N. Y. Oxidized linseed oil and making. 1,949,028; Feb. 27.
Schweitzer & Conrad, Inc. (See Ringwald, Clarence, assignor.)
Scott, Albert C., Oaken, England. Tool for forming axle housings. 1,948,544; Feb. 27.
Scottish Dyes, Limited. (See Fairweather, D. A., and Thomas.)
Seeley, William L. (See Trumble, M. J., and Seeley.)
Seijo, Modesto F., Newark, N. J. Mask for the absorption of poisonous gases. 1,948,945; Feb. 27.
Sellers, William, & Company Incorporated. (See McClintock, John D., assignor.)
Sells, Ogden S., San Francisco, Calif., and H. J. Wheeler, Buffalo, N. Y., assignors to Sprague-Sells Corp., Hoopeston, Ill. Conveyer for feeding corn husking machines. 1,948,545; Feb. 27.
Setterwall, Folke, N. H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Variable leverage brake rigging. 1,949,187; Feb. 27.
Settles, Jacob T., Carnegie, Okla. Combination tool. 1,949,335; Feb. 27.
Shallit, Charles Z., Tacoma, Wash. Hen's nest. 1,949,085; Feb. 27.

Shanks, Robert S., Ontario, Calif. Orchard heater. 1,949,336; Feb. 27.
Sharp, William A., San Luis Obispo, Calif. Junction box. 1,949,337; Feb. 27.
Shaw, James F., J. M. Donnelly, and J. Johnston, Clinton, Mass., assignors to Bigelow-Sanford Carpet Co., Thompsonville, Conn. Pile fabric. 1,948,936; Feb. 27.
Shell Development Company. (See Kramer, G. A., and Rosenstein, assignors.)
Shenton, Francis, assignor to Frick Company, Waynesboro, Pa. Vent for tanks. 1,948,773; Feb. 27.
Sherrill, Dorothy, Marshfield, Mass. Rag doll. 1,948,803; Feb. 27.
Shields, Thomas P., Newark, N. J. Rhodium plating. 1,949,131; Feb. 27.
Shover, Barton R., Pittsburgh, Pa. Screw-down. 1,948,804; Feb. 27.
Showers, Lewis M., jr., and I. M. Chambers, Juniata, assignors to The Pennsylvania Railroad Company, Philadelphia, Pa. Railway refrigerator container. 1,949,381; Feb. 27.
Sibley-Pym Corporation. (See Bommer, Fred W., assignor.)
Siegel, David T., Chicago, Ill. Contact for rheostats and fixing same. 1,948,774; Feb. 27.
Siemens-Schuckertwerke Aktiengesellschaft. (See Fischer, Ernst, assignor.)
Silica Gel Corporation, The. (See Abbott, C. F., and Conklin, assignors.)
Simmons Company. (See Gail, John F., assignor.)
Simon, Clarence K., New York, N. Y., assignor to Dominion Distilleries Inc., Jersey City, N. J. Bottle. Des. 91,638; Feb. 27.
Simon, Ernst, Berlin, Germany. Dowel pin, stud, or the like. 1,948,889; Feb. 27.
Simpson, Herbert S., assignor to The Standard Sand & Machine Company, Chicago, Ill. Sand mixer. 1,948,805; Feb. 27.
Simpson, John M., and S. O. White, Muncie, assignors, by mesne assignments, to Free Wheeling Patents Corporation, South Bend, Ind. Free wheeling transmission. 1,949,221; Feb. 27.
Sims, Willis F., and V. U. Cloer, assignors to Panhandle Refining Company, Wichita Falls, Tex. Treating hydrocarbon vapors. 1,948,890; Feb. 27.
Skenandoa Rayon Corporation. (See Volk, Walter C., assignor.)
Sloan, Roland H. (See Hunt, Livingston S., assignor.)
Sloane-Blabon Corporation. (See Croce, Michele, assignor.)
Sly, W. W., Mfg. Company, The. (See Vessy, Sidney C., assignor.)
Smetsk, Frank, New York, N. Y. Miter box and saw guide. 1,949,261; Feb. 27.
Smith, Arthur B., South Brownsville, Pa. Lamp structure. 1,948,806; Feb. 27.
Smith, Daniel A., Chevy Chase, Md., assignor to District of Columbia Paper Manufacturing Company, Washington, D. C. Manufacture of paper. 1,949,188; Feb. 27.
Smith, Harris A., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Cranking hydrocarbon oil. 1,949,029; Feb. 27.
Smith Hood & Seal Corporation. (See Meldrum, Alexander, assignor.)
Smith Hood & Seam Corporation. (See Roehm, John G., assignor.)
Smith, James A., and A. E. Zierick, New York, N. Y. Combined odometer and oiling indicator. 1,948,946; Feb. 27.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,948,684; Feb. 27.
Smith, John E., assignor to Knapp-Monarch Company, Belleville, Ill. Immersion heating element. 1,949,086; Feb. 27.
Smith, Kenneth L., Des Plaines, Ill. Tie stall. 1,949,189; Feb. 27.
Smith, L C & Corona Typewriters Inc. (See Atti, Raphael, assignor.)
Smith, Walter H., Toronto, Ontario, Canada. Printing press. 1,949,132; Feb. 27.
Smith, William A., Cortland, N. Y. Door operating mechanism. 1,949,133; Feb. 27.
Smolensky, Michael, Cleveland, Ohio. Straight flow stop valve. 1,949,190; Feb. 27.
Smolensky, Michael, Garfield Heights, Ohio. Straight flow stop valve. 1,949,191; Feb. 27.
Snow, Isaac, Lawrence, Mass., assignor to U. S. Bobbin & Shuttle Company (1929), Providence, R. I. Open bottom friction for automatic bobbins. 1,949,192; Feb. 27.
Sobieralski, Anton J., Detroit, Mich. Boat and carrier. 1,948,831; Feb. 27.
Societe Anonyme Adolphe Saurer. (See Lässker, Jean, assignor.)
Society of Chemical Industry in Basle. (See Bonhôte, G., and Apotheker, assignors.)
Society of Chemical Industry in Basle. (See Hartmann, M., and Isler, assignors.)
Society "Yacco S. A. F." (See Dintilhac, Jean G., assignor.)
Sosa, Augustus M. (See Klausmeyer, D. C., and Sosa.)
Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass furnace. 1,949,380; Feb. 27.
Southern Asbestos Company. (See Fabel, George S., assignor.)
Spalding, William L., Westfield, N. J., assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Treatment of liquids. 1,948,948; Feb. 27.
Spencer, Millard C., East Orange, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Television motor. 1,948,546; Feb. 27.
Spitzglass, Albert F., and O. T. Handwerk, assignors to Republic Flow Meters Company, Chicago, Ill. Switch control apparatus. 1,949,222; Feb. 27.
Sprague-Sells Corp. (See Sells, O. S., and Wheeler, assignors.)
Squires, John, Hagerstown, Md. Making propeller blades. 1,948,832; Feb. 27.
Squiers, Merrill D., Kalamazoo, Mich. Insulating material. 1,949,087; Feb. 27.
Standard Alcohol Company. (See Lebo, Robert B., assignor.)
Standard Brands Incorporated. (See Jóssa, Stephen, assignor.)
Standard-I. G. Company. (See Young, Philip L., assignor.)
Standard Oil Company of California. (See Davis, W. N., and Rutherford, assignors.)
Standard Oil Company (Indiana). (See Price, Ralph H., assignor.)
Standard Oil Company (Indiana). (See Ruthruff, Robert F., assignor.)
Standard Sand & Machine Company, The. (See Simpson, Herbert S., assignor.)
Standard Stoker Company, The. (See Surdykowski, Charles J., assignor.)
Starr, Alden B., Brooklyn, N. Y., assignor to Knapp-Monarch Company. Toaster device. 1,949,361; Feb. 27.
Sté de Recherches et de Perfectionnements Industriels. (See Toulon, Pierre M. G., assignor.)
Steinberg, John C., Sparta, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission with narrowed band. 1,948,973; Feb. 27.
Stettner, Ludwig W., Oakland, assignor to Victor Welding Equipment Co., San Francisco, Calif. Heating torch. 1,948,737; Feb. 27.
Stevens, Ronald J., New Malden, England. Electric control system. 1,948,685; Feb. 27.
Stickney, Burnham C., Hillside, N. J. Printing press. 1,949,223; Feb. 27.
Stiles, Charles L., Columbus, Ohio. Feed gauge for printing presses. 1,949,286; Feb. 27.
Stockmeyer, Friedrich W., Vaihingen, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Gas burning apparatus. 1,949,030; Feb. 27.
Stockton, McKinley, assignor to The Decalite Company, Los Angeles, Calif. Wear resisting blower rotor blades. 1,948,949; Feb. 27.
Storer, Norman W. (See Freeman, N. L., and Storer.)
Stötter, Hermann. (See Weller, M., Wenk, and Stötter.)
Stout, Harold E., West Reading, Pa. Sinker for knitting machines. 1,948,599; Feb. 27.
Strohacker, Louis, assignor to Structo Manufacturing Company, Freeport, Ill. Lighting system for toy automobiles. 1,949,088; Feb. 27.
Stromelly, Joseph A., New York, N. Y. Gauging, severing, piling, and holding mechanism for sheet material. 1,949,262; Feb. 27.
Strong, Howard W., Norton-on-Tees, assignor to Imperial Chemical Industries Limited London, England. Destructive hydrogenation. 1,949,089; Feb. 27.
Strong-Scott Mfg. Co., The. (See Quehl, Richard G., assignor.)
Structo Manufacturing Company. (See Strohacker, Louis, assignor.)
Stulik, Ernest, Buffalo, N. Y. Camp stove. Des. 91,639; Feb. 27.
Sturges, Thomas B. (See Ferguson, John A., assignor.)
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Huffman Mervin C., assignor.)
Sun Rubber Company, The. (See Lower, Melvin S., assignor.)
Sundermann, H., Henry, executor. (See Klausmeyer, D. C., and Sosa.)
Surdy, Charles J. (See Surdykowski, Charles J.)
Surdykowski, Charles J., now by judicial change of name C. J. Surdy, assignor to The Standard Stoker Company, Incorporated, New York, N. Y. Stoker mechanism. 1,948,686; Feb. 27.
Svenska Aktiebolaget Bromsregulator. (See Setterwall, Folke N. H., assignor.)
Svenska Aktiebolaget Gas accumulator. (See Dalén, Gustaf, assignor.)
Swenson, Samuel R. (See Carlson, G. E., Larson, and Swenson.)
Swinne, Richard, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Electric contact. 1,948,687; Feb. 27.
Sykes, George, Ossining, N. Y. Vapor dispensing apparatus. 1,948,635; Feb. 27.
Sypher, Robert M. (See Dugan, Peter J., assignor.)

Taft Oil Burner Company. (See Taft, William E., assignor.)
Taft, William E., assignor to Taft Oil Burner Company, Athol, Mass. Oil burner. 1,949,382; Feb. 27.
Talmey, Paul, New Haven, Conn. Ignition system for combustion engines. 1,948,974; Feb. 27.
Tanner, Robert R., Highland Park, and H. J. Lodeesen, assignors to Metal Finishing Research Corporation, Detroit, Mich. Method and material for coating and cleaning metal. 1,949,090; Feb. 27.
Tarbox, John P., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism. 1,948,688; Feb. 27.
Taylor, Edgar W., assignor to The Infallible Card Selecting Company Limited, Birmingham, England. Card holding device for use in visible card indexes. 1,948,689; Feb. 27.
Taylor, Edward, Garden City, N. Y. Bath spray. 1,948,807; Feb. 27.
Taylor, George, Philadelphia, Pa. Making hair cloth. 1,949,338; Feb. 27.
Taylor Instrument Companies. (See Foote, Edward B., assignor.)
Telefonaktiebolaget L. M. Ericason. (See Vos, Mauritz, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Ilberg, Waldemar, assignor.)
Teller, Jacob, Chicago, and A. P. Schulz, Berwyn, Ill., assignors, by mesne assignments, to Teller Stove Designing Corporation. Concealed hinge for refrigerators. 1,948,775; Feb. 27.
Teller Stove Designing Corporation. (See Teller, J., and Schulz, assignors.)
Templeton, Walter B., Chicago, Ill. Adjustable dance floor support. 1,948,600; Feb. 27.
Tensen, Hugo E. (See Wheelock, A. P., and Tensen.)
Teszner, Stanislas. (See Gerin, G., Branchu, and Teszner.)
Texas Company, The. (See Smith, Harris A., assignor.)
Thayer, Reuel H., Los Angeles, assignor to Thayer Telkee Corporation, San Francisco, Calif. Key filing system. 1,948,738; Feb. 27.
Thayer Telkee Corporation. (See Thayer, Reuel H., assignor.)
Thermador Electrical Manufacturing Company. (See Hoffman, George D., assignor.)
Thomas, John. (See Fairweather, D. A. W., and Thomas.)
Thomas, Laurence H. (See Kuhn, F., and Thomas.)
Thomas-Morse Aircraft Corporation. (See Pancoe, George W., assignor.)
Thomas, Richard, assignor of one-half to W. J. Bryan, jr., Los Angeles, Calif. Double lens system. 1,949,339; Feb. 27.
Thomas, Sanford E., Spencer, Ind. Mouse and rat trap. 1,948,601; Feb. 27.
Thomas, Wingate S., assignor to Knapp Bros. Mfg. Co., Chicago, Ill. Junction box. 1,948,833; Feb. 27.
Thompson Products, Incorporated. (See Harris, Cleo, assignor.)
Thompson, Thorn. (See Cane, Gordon F., assignor.)
Thomson, Judson L., Manufacturing Co. (See Havener, Arthur R., assignor.)
Thordarson, Chester H., Chicago, and O. A. Pearson, Oak Park, assignors to Thordarson Electric Manufacturing Company, Chicago, Ill. Machine for winding coils. 1,948,776; Feb. 27.
Thordarson Electric Manufacturing Company. (See Thordarson, C. H., and Pearson, assignors.)
Tidemann, Herman A., Toronto, Ontario, Canada. Combined picture frame and convex glass. Des. 91,640; Feb. 27.
Tiemann, Harry D., Madison, Wis., dedicated to the free use of the Public. Wooden building construction. 1,948,950; Feb. 27.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens. 1,948,636; Feb. 27.
Toelle, Walter H., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery carrier. 1,949,224; Feb. 27.
Togel, Walter, assignor to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Co., Dresden, Germany. Cutting apparatus for continuous rod cigarette making machines. 1,949,340; Feb. 27.
Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last and shoe grading. 1,948,547; Feb. 27.
Torrington Company, The. (See Brown, Edmund K., assignor.)
Toulon, Pierre M. G., assignor to Sté de Recherches et de Perfectionnements Industrieles, Puteaux, France. Musical instrument working through a key-board and a photo-electric cell. 1,948,996; Feb. 27.
Tracy, Michael J., St. Louis County, assignor to Pauly Jail Building Company, St. Louis, Mo. Doorframe. 1,948,602; Feb. 27.
Trans-Lux Daylight Picture Screen Corporation. (See Newman, David F., assignor.)
Trumble, Milon J., Alhambra, and W. L. Seeley, Los Angeles, assignors to Processco, Limited, San Francisco, Calif. Hydrogenating gas generating apparatus. 1,948,808; Feb. 27.
Trumble, Milon J., Alhambra, and W. L. Seeley, Los Angeles, assignors to Processco, Limited, San Francisco, Calif. Hydrogenation and dephlegmation apparatus. 1,948,809; Feb. 27.
Tschammer, Paul. Lugknitz-Oberlausitz, Germany. Dyeing and washing tray. 1,949,287; Feb. 27.
Tung-Sol Lamp Works Inc. (Central Warehouse Division). (See Caine, Charles H., assignor.)
Tuttle, Malcolm H., New Rochelle, N. Y., assignor to The Gyro Process Company, Detroit, Mich. Conversion of hydrocarbons into lower boiling compounds. 1,948,872; Feb. 27.
Twitchell, Earl W., Haddonfield, N. J. Cellophane yarn. 1,949,065; Feb. 27.
Tyler, John M., assignor to General Motors Research Corporation, Detroit, Mich. Attaching cylinder blocks to crank cases. 1,948,810; Feb. 27.
Una Welding, Inc. (See Austin, John B., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Union Metal Products Company. (See Murphy, Walter P., assignor.)
Union Special Machine Company. (See Sauer, George, assignor.)
Union Switch & Signal Company. (See Williamson, Arba G., assignor.)
United Autographic Register Co. (See Miller, Louis J., assignor.)
United Research Corporation. (See Lyon, Ray S., assignor.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Jones, Charles T., assignor.)
United Shoe Machinery Corporation. (See Lason, Axel A., assignor.)
United Shoe Machinery Corporation. (See Miner, G. A., and Lawson, assignors.)
United Shoe Machinery Corporation. (See Reed, William A., assignor.)
United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
United States Bobbin & Shuttle Company (1929). (See Snow, Isaac, assignor.)
United States Gypsum Company. (See Ericson, R., Offutt, and Parsons, assignors.)
U. S. Industrial Alcohol Co. (See Mason, Donald B., assignor.)
U. S. Slicing Machine Company. (See van Berkel, Wilhelmus A., assignor.)
Universal Oil Products Company. (See Day, Roland B., assignor.)
Universal Oil Products Company. (See Egloff, G., and Benner, assignors.)
Universal Oil Products Company. (See Huff, Lyman C., assignor.)
Universal Oil Products Company. (See Pyzel, Robert, assignor.)
"Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co. (See Tögel, Walter, assignor.)
Urban, Claude E., Bellevue, assignor to Casper J. Kauffman, Pittsburgh, Pa. Vacuum tube tester. 1,949,341; Feb. 27.
Urschel, William E., Valparaiso, Ind. Bean harvester. 1,948,975; Feb. 27.
Valiquette, William L., assignor to The Harris-Seybold-Potter Company, Dayton, Ohio. Paper cutter and cutting paper. 1,949,091; Feb. 27.
Van Berkel, Wilhelmus A., Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine knife sharpener. 1,948,811; Feb. 27.
Van Dyke, John, Kalamazoo, Mich. Valve rod guide for flush tanks. 1,949,092; Feb. 27.
Vanity Fair Silk Mills. (See Mueller, Herman H., assignor.)
Van Lammeren, Willem P., Voorschoten, Netherlands. Rotary internal combustion engine. 1,949,225; Feb. 27.
Van Peski, Adrianus J., Amsterdam, Netherlands, assignor to Naamlooze Vennootschap de Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Manufacture of organic compounds from organic compounds having one or more double bonds in the molecule. 1,948,891; Feb. 27.
Van Schaack Bros. Chemical Works, Inc. (See Van Schaack, Robert H., jr., assignor.)
Van Schaack, Robert H., jr., assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Esters of secondary alcohols. 1,949,093; Feb. 27.
Varin, Jules E., Neuilly-sur-Seine, France. Auditorium. 1,948,892; Feb. 27.
Vaughan & Bushnell Mfg. Co. (See Vaughan, H. A., Olson, and Erickson, assignors.)
Vaughan & Bushnell Mfg. Co. (See Vaughan, Sanford S., assignor.)
Vaughan, Howard A., G. Olson, and E. Erickson, assignors to Vaughan & Bushnell Mfg. Co., Chicago, Ill. Manufacture of single bladed forged ax heads. 1,948,548; Feb. 27.
Vaughan, Sanford S., assignor to Vaughan & Bushnell Mfg. Co., Chicago, Ill. Manufacture of double-bladed forged ax heads. 1,948,549; Feb. 27.
Vaverek, Vincent, and J. Heline, Pontiac, Mich. Device for facilitating the use of a can containing evaporated milk or the like. 1,948,997; Feb. 27.
Vereinigte Stahlwerke Aktiengesellschaft. (See Köster, Werner, assignor.)
Verhagen, Christian M., assignor to The Adlake Company, Chicago, Ill. Sash construction. 1,949,193; Feb. 27.
Vessy, Sidney C., South Euclid, assignor to The W. W. Sly Mfg. Company, Cleveland, Ohio. Sand blast system. 1,948,873; Feb. 27.

Victor Welding Equipment Co. (See Stettner, Luwig W., assignor.)
Villem, Raymond, and R. Aubert, assignors to Compagnie Generale de Telegraphie sans Fil, Paris, France. Transmitter supply source. 1,949,263; Feb. 27.
Vogt, Hans, Berlin, Germany. Electrostatic loud speaker. 1,948,637; Feb. 27.
Vogt, Henry, Machine Co. Inc. (See Fuller, Raymond C., assignor.)
Volk, Walter C., Rome, assignor to Skenandoa Rayon Corporation, Utica, N. Y. Drive mechanism for centrifugal buckets. 1,948,834; Feb. 27.
Vollmann, Heinrich. (See Kranzlein, G., and Vollmann.)
Von Rechenberg, Hans A. F., Cologne, Germany. Rotary separator. 1,948,998; Feb. 27.
Van Rosenberg, Guido F. (See Winkeler, H., Reindel, and Von Rosenberg.)
Voorheis, Joseph T., Los Angeles, Calif. Oil heater. 1,948,550; Feb. 27.
Vortex Cup Company. (See Fenner, Robert C., assignor.)
Vos, Mauritz, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Signal receiver. 1,949,134; Feb. 27.
Voss, Arthur. (See Kraenzlein, G., and Voss.)
Wade, Wallace G., assignor to Westinghouse Electric & Manufacturing Company, Lancaster, Pa. Vacuum tube device. 1,949,396; Feb. 27.
Wade, Wallace G., Lancaster, Pa., assignor to Westinghouse Electric & Manufacturing Company. Triode vacuum tube. 1,949,397; Feb. 27.
Waldschmidt, Ernst, Berlin, Germany. Producing highly emissive cathodes according to the metallic vapor process. 1,949,094; Feb. 27.
Walker, Brooks, Piedmont, Calif. Hydraulic power unit. 1,948,951; Feb. 27.
Walker, Harold W., Hamilton, Ohio, assignor to Pennsylvania Lubricating Company. Preserving wood. 1,948,551; Feb. 27.
Walker, James H., assignor to The Detroit Edison Company, Detroit, Mich. Fluid treating system. 1,948,893; Feb. 27.
Walker Manufacturing Co. (See Gunn, Earl G., assignor.)
Walker Manufacturing Company. (See Walker, Warren H., assignor.)
Walker, Warren H., assignor to Walker Manufacturing Company, Racine, Wis. Lifting jack. 1,949,095; Feb. 27.
Wallace, Archibald L., Brooklyn, N. Y. Continuous vulcanizer. 1,949,226; Feb. 27.
Wallace, John F., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Hydropneumatic strut. 1,949,288; Feb. 27.
Wallerius, Abel O., Laramie, Wyo. Geometrical instrument. 1,948,952; Feb. 27.
Waner, Harry E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Slitting machine. 1,949,066; Feb. 27.
Warner Gear Company. (See Fadely, James M., assignor.)
Watson, Richard M., Detroit, Mich. Binder mechanism. 1,948,603; Feb. 27.
Wayer, Henry, and G. Jaeger, Columbus, Ohio. Valve protector for gas containers. 1,948,953; Feb. 27.
Weber, Harold C., Milton, assignor to Industrial Development Corporation, Salem, Mass. Electronic device. 1,949,383; Feb. 27.
Weber, Mrs. M. et al. (See Blichmuller, Alfred, assignor.)
Weber, Sigvard L. B. Baker, and E. W. Jensen, Los Angeles, Calif. Bay aviation compass. 1,948,552; Feb. 27.
Weber, Walter H., assignor to Detroit Lubricator Company, Detroit, Mich. Carburetor. 1,949,031; Feb. 27.
Weil, Emile, New Orleans, La. Insert for masonry structures. 1,949,342; Feb. 27.
Weil, Hans, Ludwigshafen-on-theRhine, assignor to firm Dr. Bekk & Kaulen Chemische Fabrik G. m. b. H., Berlin-Lichterfelde, Germany. Photochemical production of forms or patterns for planographic printing. 1,948,604; Feb. 27.
Weiland, John A., Phoenixville, Pa. Refrigerator truck body. 1,948,954; Feb. 27.
Weiler, Max, Wiesdorf-on-the-Rhine, B. Wenk, and Hermann Stötter, Leverkusen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. New condensation products. 1,948,894; Feb. 27.
Weinberger, Samuel D., assignor to E. Frederics, Inc., New York, N. Y. Permanent wave protector. 1,949,096; Feb. 27.
Weinig, Arthur J., Golden, Colo. Separating apparatus. 1,948,606; Feb. 27.
Wellman Engineering Company, The. (See Robin, Philip T., assignor.)
Welty, Albert B., Chicago, Ill., assignor to Internation Harvester Company. Harvester thresher. 1,948,895; Feb. 27.
Wenk, Berthold. (See Weiler, M., Wenk, and Stötter.)
West Coast Pipe and Steel Co., et al. (See Lamble, John A., assignor.)
Westcott, Brayton W., assignor to Zenith-Detroit Corporation, Detroit, Mich. Carburetor. 1,948,999; Feb. 27.
Westinghouse Electric Elevator Company. (See Dunlop, James, assignor.)
Westinghouse Electric Elevator Company. (See Ellis, Charles E., jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Andersen, Niels K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Beard, Joseph G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bendz, Waldemar I., assignor.)
Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Evans, R. D., and Nycum, assignors.)
Westinghouse Electric and Manufacturing Company. (See Freeman, N. L., and Storer, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hackethal, Johannes, assignor.)
Westinghouse Electric & Manufacturing Company. (See Hadley, George P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hester, Edgar A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hutchison, William M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kesselring, Fritz, assignor.)
Westinghouse Electric & Manufacturing Company. (See Knowles, Dewey D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Koch, Gustav H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Swinne, Richard, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wade, Wallace G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Yost, Irvine A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Young, Douglass A., assignor.)
Weyner, Meyer, Brooklyn, N. Y. Making suede leather having a high polish and suede leather of this type. 1,949,384; Feb. 27.
Wheeler, Henry J. (See Sells, O. S., and Wheeler.)
Wheeler Reflector Company. (See Cole, Charles M., assignor.)
Wheelock, Arthur P., and H. E. Tensen, Des Moines, Iowa. Apparatus for testing vision. 1,949,067; Feb. 27.
White, Samuel O. (See Simpson, J. M., and White.)
Whitehead and Kales Company. (See Francis, L. M., Jeffers, and Fader, assignors.)
Whitehead & Kales Company. (See Judd, Irving H., assignor.)
Whitehead & Kales Company. (See Miller, Jesse B., assignor.)
Whitehouse, John N., New York, N. Y. Apparatus for producing closed ended tubes of celluloid or the like. 1,948,605; Feb. 27.
Wickwire, Arthur M., jr., Nutley, assignor to Peerless Roll Leaf Co., Inc., Union City, N. J. Process and machine for impressing and embossing covering material. 1,949,362; Feb. 27.
Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Apparatus for preparing container blanks. 1,948,553; Feb. 27.
Wiechert, George A., New York, N. Y. Molding flask. 1,949,227; Feb. 27.
Wilcolator Company, The. (See Fonseca, Edward L., assignor.)
Willard, George T., assignor to E. H. Bell, Chicago, Ill. Railway tie plate. 1,949,363; Feb. 27.
Wille, Fredrik. (See Brassert, H. A., Wille, and Zimmermann.)
Williams, David T., Larchmont, N. Y. Locomotive stoker. 1,948,812; Feb. 27.
Williams, Harrison G., Los Angeles, Calif. License plate lock bar. 1,948,554; Feb. 27.
Williams Oil-O-Matic Heating Corporation. (See Lawton, Harvey B., assignor.)
Williamson, Arba G., Carnegie, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Track circuit system. 1,949,194; Feb. 27.
Willoughby, Walter J. (See Andrews, N. H., and Willoughby.)
Wilson, Ernest M., assignor of thirty per cent to E. H. Carlton and thirty per cent to A. A. Carlton, Fort Worth, Tex. Cotton picking machine. 1,949,032; Feb. 27.
Wilson, Ira G., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave amplifying system. 1,948,976; Feb. 27.
Wing, Amos O. (See Mace, James W., assignor.)
Winkeler, Hermann, H. Reindel, Ludwigshafen-on-the-Rhine, and G. F. Von Rosenberg, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuff. 1,949,228; Feb. 27.
Winthrop Chemical Company. (See Elsleb, Otto, assignor.)
Wirth, Johann K., Berlin, assignor to Säureschutz Gesellschaft mit beschrankter Haftung, Berlin-Altglienicke, Germany. Manufacturing vessels. 1,949,135; Feb. 27.
Wissel, Kurt. (See Pier, M., Wissel, and Dinkler.)
Wittig, Carl O. G., Golden, Colo. Fire extinguisher bracket. Des. 91,641; Feb. 27.
Wolcott, Frank E., West Hartford, and L. V. Lucia, Hartford, Conn., assignors to The Beardsley & Wolcott Mfg. Co. Toaster. 1,948,739; Feb. 27.
Wolff, Lionel A. (See Corcoran, T. D., and Wolff.)
Wood, John W., Buffalo Ridge, Va. Applying and removing tool. 1,949,343; Feb. 27.

Wood, Russell A., Cambridge, Mass. Luminair. 1,948,555; Feb. 27.
Woodhouse, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of methyl ether. 1,949,344; Feb. 27.
Worcester Loom Works. (See Alvord, Charles C., assignor.)
World Bestos Corporation. (See Brockway, Carl P., assignor.)
Wright, Jesse C., et al. (See Hopkins, Samuel R., assignor.)
Wright, Leonard K., Jackson Heights, N. Y. Traffic-regulating device. 1,948,896; Feb. 27.
Wright, Orville C., St. Louis, Mo. Fluid-pressure brake. 1,949,033; Feb. 27.
Wyeth, John, & Brother, Incorporated. (See Bird, John C., assignor.)
Yamamoto, Seiichi, Asakusa Ku, Tokyo, Japan. Manufacturing a leather substitute. 1,949,034; Feb. 27.
Yano, Shigenari, Fujimachi, Fujigun, Shizuokaken, Japan. Recuperating rosin size already applied to papers. 1,949,000; Feb. 27.
Yant, Raymond C., Omaha, Nebr. Dispensing trailer. 1,949,195; Feb. 27.
Yeager, Frank W., Cliffside Park, N. J., assignor to The Barrett Company, New York, N. Y. Inflexible waterproof composition and making same. 1,949,229; Feb. 27.
Yoerg, Leon M., assignor to American Writing Paper Company, Inc., Holyoke, Mass. Treating paper. 1,948,874; Feb. 27.
York Ice Machinery Corporation. (See Light, Albert T., assignor.)
York Ice Machinery Corporation. (See Pierce, Raymond C., assignor.)
Yost, Irvine A., Lakewood, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Illumination apparatus. 1,948,690; Feb. 27.
Youlten, Henry M., Lindqvist, and M. Berglund, Virginia City, assignors of one-eighth to C. H. Petersen, three-eighths to J. Lindquist, one-eighth to Berteglio and McTaggert Storage Company, Butte, Mont., and three-eighths to M. Lindqvist. 1,949,196; Feb. 27.
Young, Charles O., Charleston, and G. A. Perkins, South Charleston, W. Va., assignors to Carbide & Carbon Chemicals Corporation. Separating hydrocarbons. 1,948,777; Feb. 27.
Young, Douglass A., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Portable stroboscope. 1,948,740; Feb. 27.
Young, Graeme E., Deerfield, Ill. Stage construction for theaters. 1,949,232; Feb. 27.
Young, Philip L., New York, N. Y., assignor to Standard-I. G. Company. Obtaining valuable high boiling and low boiling oils from heavy hydrocarbon oils. 1,949,230; Feb. 27.
Young, Philip L., New York, N. Y., assignor to Standard-I. G. Company. Obtaining high yields of high grade lubricants from petroleum oil. 1,949,231; Feb. 27.
Youngberg, Gilbert A., Jacksonville, Fla. Adjustably permeable and extensible groin. 1,948,639; Feb. 27.
Zahnradfabrik Friedrichshafen Aktiengesellschaft. (See Molly, Hans, assignor.)
Zenith-Detroit Corporation. (See Westcott, Brayton W., assignor.)
Zettelmeyer, Peter, et al. (See Buchmüller, Alfred, assignor.)
Zierick, Ambrose E. (See Smith, J. A., and Zierick.)
Zimmermann, Herman G., Bentleigh, Victoria, Australia. Production of mercurized printing plates. 1,949,233; Feb. 27.
Zimmermann, Paul. (See Brassert, H. A., Wille, and Zimmermann.)
Zola, Hector G., Cleveland, Ohio. Service device. 1,948,778; Feb. 27.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF FEBRUARY, 1934

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading tool. W. A. Reed. 1,948,674; Feb. 27.
Abrasive tool. F. E. Bertrand. 1,948,643; Feb. 27.
Acids, Approximate separation of solid and liquid fatty. E. Schlenker. 1,948,683; Feb. 27.
Acoustical material, Ceramic. R. Ericson, J. S. Offutt, and J. R. Parsons. 1,948,878; Feb. 27.
Adding machine frame construction. R. C. Coxhead and C. W. Norton. 1,948,958; Feb. 27.
Adjustable hinge. L. G. Gransden. 1,949,252; Feb. 27.
Adsorbent. J. C. Bird. 1,949,266; Feb. 27.
Adsorption system. C. F. Abbott and C. A. Conklin, 3d. 1,948,779; Feb. 27.
Agents of combustion, Device for controlling. C. Otto. 1,949,177; Feb. 27.
Air cleaner. W. W. Lowther. 1,949,212; Feb. 27.
Air conditioning apparatus. T. B. Brunt. 1,948,647; Feb. 27.
Air filter. R. R. Halstead. 1,948,791; Feb. 27.
Air moistener. J. H. Mitchell. 1,949,320; Feb. 27.
Air operated clamp. E. F. Oyster. 1,948,799; Feb. 27.
Air register for fuel burners. E. H. Peabody. 1,948,627; Feb. 27.
Aircraft. C. L. Fortier. 1,948,574; Feb. 27.
Aircraft. G. W. Hardin. 1,949,304; Feb. 27.
Aircraft with rotative wings. J. de la Cierva. 1,948,514; Feb. 27.
Aircraft with rotative wings. J. de la Cierva. 1,949,296; Feb. 27.
Airlock, Submarine. J. F. O'Rourke. 1,948,934; Feb. 27.
Airplane. H. Pitts. 1,948,629; Feb. 27.
Airplane cowl fastener. G. W. Pancoe. 1,949,027; Feb. 27.
Alarm system. J. H. Ehrle. 1,948,850; Feb. 27.
Alcohol and ester, Denatured. W. N. Davis and J. T. Rutherford. 1,949,244; Feb. 27.
Alcohols, Purification of secondary. R. B. Lebo. 1,949,211; Feb. 27.
Alkylolamine-derivatives and preparing them. O. Eisleb. 1,949,247; Feb. 27.
Alpha naphthol, Production of. W. J. Cotton. 1,949,243; Feb. 27.
Alumina, Manufacturing. W. M. Sanders. 1,948,887–8; Feb. 27.
Aluminium article, Riveted plated. G. Schreiber. 1,949,112; Feb. 27.
Amplifier, Harmonic neutralizing. T. H. Nakken. 1,949,217; Feb. 27.
Amusement apparatus. C. S. Regenold, sr. 1,948,995; Feb. 27.
Animal trap. J. W. Mace. 1,948,586; Feb. 27.
Anticreeping device for railway rails. G. L. Colbie. 1,948,561; Feb. 27.
Anti-friction bearing. L. Langhaar. 1,948,860; Feb. 27.
Antioxidants. J. K. Hunt and G. H. Latham. 1,948,582; Feb. 27.
Antirattle device. I. Andrews. 1,948,640; Feb. 27.
Appliqué process. L. D. Hokerk. 1,948,620; Feb. 27.
Applying and removing tool. J. W. Wood. 1,949,343; Feb. 27.
Arc lamp. E. O. Lightner. 1,948,669; Feb. 27.
Armature-quotient measuring instrument, Rotating. W. Geyger. 1,948,912; Feb. 27.
Articles, Process of and apparatus for molding. J. McEwan. 1,948,989; Feb. 27.
Auditorium. J. E. Varin. 1,948,892; Feb. 27.
Automobile pit. T. Martin. 1,949,394; Feb. 27.
Awning arm bracket. L. B., N., W., and J. M. Goldberg. 1,948,789; Feb. 27.
Awning arm hinge. L. B., N., W., and J. M. Goldberg. 1,948,788; Feb. 27.
Ax heads Manufacture of double-bladed, forged. S. S. Vaughan. 1,948,549; Feb. 27.
Ax heads, Manufacture of single bladed forged. H. A. Vaughan, G. Olson, and E. Erickson. 1,948,548; Feb. 27.
Azo-dyestuffs. G. Bönhote and C. Apotheker. 1,949,142; Feb. 27.
Bacterial proteins for topical application, Preparation of lysed. F. G. Jones. 1,949 375; Feb. 27.
Bag: *See*—
Paper bag. Shipping bag.
Bag making machine. B. D. Greenlaw. 1,949,273; Feb. 27.
Ball and socket joint. C. Harris. 1,948,757; Feb. 27.
Bandage, Surgical. D. J. Dubamel. 1,949,271; Feb. 27.
Bar: *See*—
License plate lock bar.
Barber's chair. C. F. Dorrell. 1,948,786; Feb. 27.
Barrel. C. W. Avery. 1,948 837; Feb. 27.
Bath spray. E. Taylor. 1,948,807; Feb. 27.
Bearing: *See*—
Anti-friction bearing. Fan bearing.
Bed, Hospital or invalid. L. Beurschgens. 1,949,035; Feb. 27.
Bedding clamp. G. F. Cane. 1,948,841; Feb. 27.
Belt vulcanizing apparatus. J. C. Heints. 1,949,275; Feb. 27.
Benzo-carpazole-carboxylic acid and preparing it, Substituted. G. Kallscher, O. Limpach, and K. Hager. 1,948,923; Feb. 27.
Beryllium alloys, Obtaining heavy-metal. E. Pokorny. 1,949,082; Feb. 27.
Binder mechanism. R. M. Watson. 1,948,603; Feb. 27.
Binoculator. G. L. Mandaville. 1,949,022; Feb. 27.
Bit: *See*—
Rotary drilling bit.
Blower rotor blade, Wear resisting. M. Stockton. 1,948,949; Feb. 27.
Board: *See*—
Corrugated board.
Boat and carrier. A. J. Sobieralski. 1,948,831; Feb. 27.
Boat, Transoceanic flying. L. C. Milburn. Des. 91,634; Feb. 27.
Bobbin, Metal winding. K. W. H. Barthelmes. 1,949,291; Feb. 27.
Booth, Telephone. O. Gullicksen. 1,948,755; Feb. 27.
Bottle. C. K. Simon. Des. 91,638; Feb. 27.
Bottle and base ensemble, Perfume. M. de Botelho. Des. 91,609; Feb. 27.
Bottle-capping machine. A. Meldrum. 1,949,877; Feb. 27.
Bottle carrier. G. R. Kinkead and W. L. Moir. 1,949,207; Feb. 27.
Bottle cleaning device. A. F. Hoffman. 1,949,206; Feb. 27.
Bottle, Measuring. C. Renfro. 1,949,130; Feb. 27.
Bowl, Water-closet. F. T. Meyer. 1,948,970; Feb. 27.
Box: *See*—
Junction box.
Box with hinged lid. F. A. Aman and H. B. Sandmann, jr. 1,948,483; Feb. 27.
Bracelet for curtain rods. D. H. Rosenberg. 1,948,734; Feb. 27.
Bracelet or similar article. B. F. Conner. Des. 91,604–5; Feb. 27.
Bracket: *See*—
Awning arm bracket.
Bracket for laundry tubs, Leg. O. S. Burman. 1,949,099; Feb. 27.
Braid, Elastic. R. T. Dawes. 1,948,844; Feb. 27.
Brake: *See*—
Fluid pressure brake. Multiple shoe brake.
Brake. R. J. Norton. 1,949,176; Feb. 27.
Brake gear support. T. C. McConkey. 1,948,529; Feb. 27.
Brake lever construction. H. Molly. 1,948,991; Feb. 27.
Brake linings, Apparatus for forming and curing. C. P. Brockway. 1,948,491; Feb. 27.
Brake-operating mechanism. G. E. Edmunds. 1,948,652; Feb. 27.
Brake rigging, Variable leverage. F. N. H. Setterwall. 1,949,187; Feb. 27.
Braking or antiskidding device for automotive vehicles. W. H. Blair. 1,949,071; Feb. 27.
Brick, Metal covered. R. W. Loeffler. 1,949,079; Feb. 27.
Bromination products of the dibenzanthrone series. M. A. Kunz and K. Koeberle. 1,949,209; Feb. 27.
Brush, Hair. A. Mitlehner. 1,948,990; Feb. 27.
Buckle. J. B. Freysinger. Des. 91,618; Feb. 27.
Buckle, Foldable. A. H. Barrowman. 1,948,610; Feb. 27.
Building construction. R. L. McCaig. 1,949,215; Feb. 27.
Building construction. H. W. Schick. 1,949,220; Feb. 27.
Building construction, Fireproof. J. A. Fergusou. 1,949,045; Feb. 27.
Building construction, Wooden. H. D. Tiemann. 1,948,950; Feb. 27.
Burner: *See*—
Fuel burner. Oil burner.
Burner structure, Gas. G. H. Irwin. 1,948,663; Feb. 27.
Bust section, Knitted shaped. H. H. Mueller. 1,948,670; Feb. 27.
Button. L. R. Carley. Des. 91,603; Feb. 27.
Button. B. F. Conner. Des. 91,606–8; Feb. 27.
By-pass condenser. C. H. Caine. 1,948,506; Feb. 27.
Cable clamp. E. J. De Right. 1,948,845; Feb. 27.
Cable for communication circuits. E. Fischer. 1,948,616; Feb. 27.
Calcium chlorate, Purifying. S. B. Heath. 1,949,204; Feb. 27.
Calendar. D. W. Pinkerton. 1,949,328; Feb. 27.
Calendar, Perpetual. M. C. Haley. 1,948,576; Feb. 27.
Cam-tooth-generating mechanism. F. Marriott and C. Neklutin. 1,949,062; Feb. 27.
Camera. J. Buholzer. 1,949,351; Feb. 27.
Camera. W. W. Hook. 1,948,579; Feb. 27.

Can containing evaporated milk or the like, Device for facilitating the use of a. V. Vaverek and J. Heline. 1,948,997; Feb. 27.
Car construction. O. C. Duryea. 1,948,787; Feb. 27.
Car construction, Hopper. W. P. Murphy. 1,949,080; Feb. 27.
Car suspension. J. O. Almen. 1,948,482; Feb. 27.
Car-wheel grinding machine. C. H. Norton and C. G. Flygare. 1,948,866; Feb. 27.
Carbon dioxide, Production of solid. R. C. Pierce. 1,949,179; Feb. 27.
Carbon roll, Shiftable. L. J. Miller. 1,949,173; Feb. 27.
Carbonizable material, Carbonizing solid. I. H. Derby and H. R. Horner. 1,948,515; Feb. 27.
Carbureting apparatus. L. E. Perrine. 1,948,825; Feb. 27.
Carburetor. O. G. J. S. de Roysancour. 1,948,700; Feb. 27.
Carburetor. W. H. Weber. 1,949,031; Feb. 27.
Carburetor. B. W. Westcott. 1,948,999; Feb. 27.
Carburetor and fuel converter. R. F. and P. W. Ensign. 1,948,702; Feb. 27.
Card holding device for use in visible card indexes. E. W. Taylor. 1,948,689; Feb. 27.
Carrier: *See*—
Bottle carrier. Drapery carrier.
Case: *See*—
Cigarette case. Display case.
Cash and check collecting receptacle. E. Marcoux. 1,948,862; Feb. 27.
Casserole, bowl, or similar article. L. E. Hellmann. Des. 91,623; Feb. 27.
Casting by centrifugal force, Device for. J. Leuser. 1,949,021; Feb. 27.
Castings, Making lead alloy. E. Graff. 1,949,372; Feb. 27.
Cathodes according to the metallic vapor process, Producing highly emissive. E. Waldschmidt. 1,949,094; Feb. 27.
Cellulose derivatives, Precipitation and treatment of. D. B. Mason. 1,948,625; Feb. 27.
Cellulose esters, Apparatus for precipitation of. D. B. Mason. 1,949,214; Feb. 27.
Cellulose esters, Precipitation of. D. B. Mason. 1,949,213; Feb. 27.
Cellulose, Improving acyl. E. Correns and A. Möhring. 1,948,903; Feb. 27.
Cellulose, Treatment of derivatives of. C. Dreyfus and G. Schneider. 1,948,517; Feb. 27.
Cement and the like, Apparatus for manufacturing. A. Andreas. 1,948,742; Feb. 27.
Chair: *See*—
Barber's chair. Folding chair.
Change speed gear. K. Maybach. 1,949,168; Feb. 27.
Chassis lubrication. J. Bijur. 1,948,502; Feb. 27.
Check endorser. W. H. Lyman and P. F. Fischel. Re19,098; Feb. 27.
Chemical compounds, Purifying normally solid. S. Jozsa. 1,948,585; Feb. 27.
Cigar bunch machine. R. E. Rundell. 1,948,598; Feb. 27.
Cigar bunches, Treating. M. Patterson and R. E. Rundell. 1,948,626; Feb. 27.
Cigar cellophane-envelope end-crimping device. L. Ferenci. 1,948,570; Feb. 27.
Cigar transfer for enveloping and banding machines. R. J. Beutel. 1,948,558; Feb. 27.
Cigarette case. J. P. Krieger. 1,949,165; Feb. 27.
Cigarette package. H. R. Bethke. 1,949,139; Feb. 27.
Cigarette package. M. Patterson. 1,948,593; Feb. 27.
Cigarette snuffer. P. Hamm. 1,948,880; Feb. 27.
Cinematographic projection, Apparatus for. J. Bogopolsky. 1,948,900; Feb. 27.
Circuit breaker, Electric. W. E. Paul. 1,949,258; Feb. 27.
Circuit interrupter. S. S. Grady. 1,948,519; Feb. 27.
Circuit interrupting device. N. K. Andersen. 1,948,741; Feb. 27.
Clamp: *See*—
Air operated clamp. Pull clamp.
Bedding clamp. Sheet, mattress, and
Cable clamp. blanket clamp.
Clamp and elevating control, Interlocked arm. D. C. Klausmeyer and A. M. Sosa. 1,948,618; Feb. 27.
Cleaner: *See*—
Air cleaner.
Cleaning apparatus, Suction. J. B. Kirby. 1,949,052; Feb. 27.
Cleaning or washing machine, Dry. L. B. Green. 1,948,879; Feb. 27.
Cleats, Attaching means for. A. A. Saunders. 1,949,333; Feb. 27.
Clip: *See*—
Toggle clip.
Clipper, Hair. L. H. LaChance. 1,949,054; Feb. 27.
Clock case and lamp or similar article, Combined. J. Gottlieb. Des. 91,621; Feb. 27.
Clock case or similar article. J. Gottlieb. Des. 91,620; Feb. 27.
Cloth-drying apparatus. C. Malfet. 1,948,767; Feb. 27.
Cloth, Making hair. G. Taylor. 1,949,338; Feb. 27.
Clutch. H. L. Kutter. 1,949,053; Feb. 27.
Clutch device. J. M. Fadely. 1,949,385; Feb. 27.
Coal, Apparatus for dry cleaning of. E. O'Toole, sr. 1,949,324; Feb. 27.
Coal washing machine. J. A. Montgomery. 1,949,174; Feb. 27.
Coating composition, Flowable. G. B. Dunford. 1,948,906; Feb. 27.
Coating composition, Nonchalking. R. T. Hucks. 1,948,580; Feb. 27.
Coating material. M. Croce. 1,948,959; Feb. 27.
Cobalt-molybdenum alloys. W. Köster. 1,949,313; Feb. 27.
Coil-winding apparatus, Electrical. B. C. Beitling. 1,948,875; Feb. 27.
Collar positioner, Soft. B. I. Hughes. 1,949,307; Feb. 27.
Combination tool. J. T. Settles. 1,949,335; Feb. 27.
Communication system, Duplex. A. M. Curtis. 1,948,981; Feb. 27.
Compass, Ray aviation. S. L. Weber, B. Baker, and E. W. Jensen. 1,948,552; Feb. 27.
Composition of matter. G. F. Hadley. 1,948,756; Feb. 27.
Compositions and solutions for use in dyeing and textile printing. M. Mendoza and A. G. Murray. 1,948,589; Feb. 27.
Compressor. E. Egli. 1,948,907; Feb. 27.
Concrete mold construction. O. Roberg. 1,949,083; Feb 27.
Condensation product of the pyrenquinone series and preparing it. G. Kranzlein and H. Vollmann. 1,948,926; Feb. 27.
Condensation products, New. M. Weiler, B. Wenk, and H. Stötter. 1,948,894; Feb. 27.
Condenser: *See*—
By-pass condenser. Variable condenser.
Conductor, Electrical. C. L. McCrea. 1,949,169; Feb. 27.
Connecter. T. B. Bash. 1,948,838; Feb. 27.
Connection, Safety. J. D. McClintock. 1,948,725; Feb. 27.
Contact for rheostats and fixing same. D. T. Siegel. 1,948,774; Feb. 27.
Container: *See*—
Display container. Refrigerator container.
Dredging container. Sanitary container.
Container. R. T. Garfein. 1,949,303; Feb. 27.
Container. E. E. Kallenbach. 1,949,162; Feb. 27.
Container. S. N. Kephart. Des. 91,629; Feb. 27.
Container blanks, Apparatus for preparing. M. E. Widell. 1,948,553; Feb. 27.
Container closure applying tool. J. M. Hothersall. 1,948,521; Feb. 27.
Container heads, Attaching means for. S. M. Johnson. 1,948,920; Feb. 27.
Control device. E. J. Dillman. 1,949,371; Feb. 27.
Control for fluid metering systems, Automatic. A. J. Granberg. 1,948,984; Feb. 27.
Control system. W. I. Bendz. 1,948,694; Feb. 27.
Control system. W. M. Hutchison. 1,948,760; Feb. 27.
Control system, Indicating. E. V. Bereche. 1,948,498; Feb. 27.
Controlling mechanism for winding drums. C. V. Hallenbeck. 1,949,015; Feb. 27.
Conveyer for feeding corn-husking machines. O. S. Sells and H. J. Wheeler. 1,948,545; Feb. 27.
Cooler: *See*—
Milk cooler. Water cooler.
Cooling system for electrical cables. F. W. Gay. 1,948,964; Feb. 27.
Cony-preparing machine. A. W. Buckwell. 1,949,036; Feb. 27.
Corpse-handling device. J. E. Baker. 1,948,611; Feb. 27.
Corrugated board. C. L. Keller. 1,949,255; Feb. 27.
Cotton bat protector, Broken. F. N. Ross and H. L. Johnson. 1,948,634; Feb. 27.
Cotton picking machine. E. M. Wilson. 1,949,032; Feb. 27.
Coupling: *See*—
Flexible coupling. Pipe coupling.
Coupling for pipe-wrapping machines. D. W. Boylan, H. Kramer and E. Jansen. 1,948,956; Feb. 27.
Coupling for socket wrenches. E. M. Pfauser. Re19,093; Feb. 27.
Cover arrangement for a projection booth porthole. D. F. Newman. 1,948,972; Feb. 27.
Covering material, Process and machine for impressing and embossing. A. M. Wickwire, jr. 1,949,362; Feb. 27.
Crank mechanism. J. G. Gibson. 1,948,814; Feb. 27.
Crates, Method of and apparatus for nailing. H. Paxton. 1,949,108; Feb. 27.
Creamer attachment for coffee cup, Measuring nonspilling. A. McMickle. 1,948,932; Feb. 27.
Crossing gate. E. Daniel. 1,948,512; Feb. 27.
Crosstie, Metal. G. L. Colbie. 1,948,562; Feb. 27.
Crushing machinery. G. W. Borton. 1,948,504; Feb. 27.
Cryptographic apparatus. P. G. G. Beyer. 1,949,140; Feb. 27.
Cultivator, Bush and weed destroying. H. B. Carter. 1,948,509; Feb. 27.
Cups, Packing nested paper. R. C. Fenner. 1,948,751; Feb. 27.
Current rectifier, Electric. E. Kobel. 1,949,104; Feb. 27.
Current relay, Alternating. W. Ilberg. 1,949,254; Feb. 27.
Curtain roller construction. W. S. Hamm. 1,949,160; Feb. 27.
Cushion, Egg. W. K. Jaquith. 1,948,986; Feb. 27.
Cuspidor, Dental. F. W. Kahlert. 1,948,523; Feb. 27.
Cutter: *See*—
Milling cutter.
Cutter and cutting paper, Paper. W. L. Valiquette. 1,949,091; Feb. 27.

Cutter truing fixture. J. E. Gleason and S. H. Earl. 1,949,014; Feb. 27.
Cutting apparatus for continuous rod cigarette making machines. W. Togel. 1,949,340; Feb. 27.
Cylinder blocks to crank cases, Attaching. J. M. Tyler. 1,948,810; Feb. 27.
Cylinder controlling mechanism for knitting machines. W. Larkin. 1,949,314; Feb. 27.
Cylinders, Making air-cooled. C. F. Kettering. 1,948,818; Feb. 27.
Dance floor support, Adjustable. W. B. Templeton. 1,948,600; Feb. 27.
Decoration and light holder. E. E. Flyberg. 1,948,813; Feb. 27.
Decoy. F. Lyons and W. H. Lyons, jr. 1,948,624; Feb. 27.
Delivery mechanism. H. Fankboner. 1,949,152; Feb. 27.
Depository. J. J. Murtaugh, jr. 1,949,283; Feb. 27.
Desk, Foldable. J. Fanarjian. 1,948,703; Feb. 27.
Desincing machine. K. A. Lindner. 1,949,391; Feb. 27.
Diagram, Supervisory illuminated control. O. Plechl. 1,949,110; Feb. 27.
Dial arrangement applicable to various apparatus. R. Melik-Minassiantz. 1,949,024; Feb. 27.
Dial-knitting machine. R. H. Lawson. 1,949,390; Feb. 27.
Diathermy contact pad. C. F. Jenkins. 1,948,716; Feb. 27.
Die-casting machine. L. H. Morin. 1,948,992; Feb. 27.
Discharger. R. C. Coupland. 1,948,511; Feb. 27.
Dish or similar article. L. E. Hellmann. Des. 91,624; Feb. 27.
Disk mounting for furnace conveyer shaft. F. A. Fahrenwald. 1,949,386; Feb. 27.
Dispenser: *See*—
Fluid dispenser. Soap dispenser.
Dispensing machine, Coin controlled. F. C. Du Grenier. 1,948,650; Feb. 27.
Display case, Illuminated. G. J. Hopkins. 1,949,253; Feb. 27.
Display container. N. F. Mansfield and G. S. Gottsman. 1,949,376; Feb. 27.
Display mechanism. H. Kreusler. 1,949,020; Feb. 27.
Display stand. S. Kohn. Des. 91,631; Feb. 27.
Display stand. I. H. Marshall. 1,949,023; Feb. 27.
Distributor for finely divided material. F. A. Küchler. 1,948,668; Feb. 27.
Doll joint. M. S. Lower. 1,949,393; Feb. 27.
Doll, Rag. D. Sherrill. 1,948,803; Feb. 27.
Door, Automobile body. F. Ginsburg. Des. 91,619; Feb. 27.
Door construction. A. V. Rowe. 1,948,770; Feb. 27.
Door construction, Automobile. W. H. D'Ardenne. 1,949,269; Feb. 27.
Door construction, Overhead. A. V. Rowe. 1,948,769; Feb. 27.
Doorframe. M. J. Tracy. 1,948,602; Feb. 27.
Door operating mechanism. W. A. Smith. 1,949,133; Feb. 27.
Door pull and latch. C. L. Evans. 1,948,908; Feb. 27.
Door strip and method of making. W. H. Ross. 1,948,942; Feb. 27.
Dough working machine. F. X. and E. J. Lauterbur. 1,949,105; Feb. 27.
Dowel pin, stud, or the like. E. Simon. 1,948,889; Feb. 27.
Draft and buffing gear. J. H. Link. 1,949,060; Feb. 27.
Draft equalizer. G. Johnson. 1,948,665; Feb. 27.
Drapery carrier. W. H. Toelle. 1,949,224; Feb. 27.
Dredging container. J. M. Cross. 1,949,357; Feb. 27.
Drill: *See*—
Rock drill.
Drilling mechanism. E. G. Gartin. 1,948,518; Feb. 27.
Drive mechanism for centrifugal buckets. W. C. Volk. 1,948,834; Feb. 27.
Driving mechanism. C. H. Havill. 1,949,203; Feb. 27.
Dual wheel. F. W. Burger. 1,948,614; Feb. 27.
Duplicator. F. F. Fecher. 1,949,154; Feb. 27.
Dust collector, Self-cleaning. E. F. Annis. 1,949,002; Feb. 27.
Dyestuff, Azo. H. Winkeler, H. Reindel, and G. F. von Rosenberg. 1,949,228; Feb. 27.
Educational device or game. E. J. Hornung. 1,948,712; Feb. 27.
Electric arcs, Device for extinction of. G. Gerin, P. J. Branchu, and S. Teszner. 1,948,658; Feb. 27.
Electric contact. R. Swinne. 1,948,687; Feb. 27.
Electric control system. R. J. Stevens. 1,948,685; Feb. 27.
Electric discharge tube. A. Bouwers. 1,949,347; Feb. 27.
Electric heater. G. D. Hoffman. 1,948,759; Feb. 27.
Electric installation. A. Bouwers. 1,949,348; Feb. 27.
Electric insulating property of ceramics such as porcelain, Method and means to increase the. I. Kitsee. 1,949,311; Feb. 27.
Electric switch. H. G. Horning. 1,949,306; Feb. 27.
Electric switch. H. B. Lawton. 1,948,938; Feb. 27.
Electric wave amplifier. C. B. Aiken. 1,948,977; Feb. 27.
Electric wave amplifying system. I. G. Wilson. 1,948,976; Feb. 27.
Electric wiring strip and making same. L. Kallscher. 1,949,077; Feb. 27.
Electrical mechanism. R. Chilton. 1,949,367; Feb. 27.
Electrical release for planters. J. C. Bohmker. 1,948,559; Feb. 27.
Electron discharge device. C. E. Huffman. 1,949,276; Feb. 27.
Electronic device. H. C. Weber. 1,949,383; Feb. 27.
Electrooptical system. A. R. Olpin. 1,948,941; Feb. 27.
Elevator-dispatching system. C. E. Ellis, jr. 1,948,748; Feb. 27.
Elevator safety device. J. Dunlop. 1,948,746; Feb. 27.
Embossing and printing machine. P. A. Gardner, jr. 1,948,911; Feb. 27.
Emulsion, Bituminous. L. Kirschbraun. 1,948,881; Feb. 27.
Engine: *See*—
Internal combustion engine. Parallel steam engine.
Engine construction, Multiple cylinder. D. J. Dolan. 1,949,043; Feb. 27.
Engine controlling apparatus. R. M. Nardone. 1,948,998; Feb. 27.
Esters of organic acids, Production of. J. R. Buckley and C. A. Doran. 1,949,267; Feb. 27.
Esters of secondary alcohols. R. H. Van Schaack, jr. 1,949,093; Feb. 27.
Ether containing halogen, Basic. M. Hartmann and H. Isler. 1,949,046; Feb. 27.
Ether, Preparation of methyl. J. C. Woodhouse. 1,949,344; Feb. 27.
Exhaust silencer. E. de La Gabbe. 1,949,041; Feb. 27.
Expansion joint. H. N. Henderson. 1,948,916; Feb. 27.
Expansion switch. F. Kesselring. 1,948,761; Feb. 27.
Extracting device. D. E. Roganson. 1,949,185; Feb. 27.
Extractor: *See*—
Pressure and centrifugal extractor.
Fabric: *See*—
Pile fabric. Terry loop knitted fabric.
Fabric and making the same, Compound ventilated. A. A. Glidden and V. H. Bodle. 1,949,159; Feb. 27.
Fan bearing. C. Hollerith. 1,948,816; Feb. 27.
Fastener: *See*—
Airplane cowl fastener. Shoe cleat fastener.
Faucet, Mixing. E. H. Fitter. 1,949,300; Feb. 27.
Feed mixing machine. R. G. Quebl. 1,948,871; Feb. 27.
Feeder. R. C. Moore. 1,949,281; Feb. 27.
Fence, Metal snow. E. J. Erikkson. 1,948,655; Feb. 27.
Fence tool. A. P. Cox. 1,948,904; Feb. 27.
Fibrous composition and manufacture. H. C. Fisher. 1,949,249; Feb. 27.
Film-coating rolls and the like, Apparatus for. H. J. Baxter. 1,949,234; Feb. 27.
Film editor. J. V. Curran. 1,948,842; Feb. 27.
Filter: *See*—
Air filter. Oil filter.
Filtering apparatus and process. G. W. O'Keefe. 1,948,947; Feb. 27.
Fire extinguisher bracket. C. O. G. Wittig. Des. 91,641; Feb. 27.
Fire extinguishing medium distribution system. W. H. Freygang. 1,948,753; Feb. 27.
Fish lure. W. Lissy. 1,948,823; Feb. 27.
Fish lure, Weed resisting. A. Danielczuk. 1,948,983; Feb. 27.
Fishing reel. F. W. Russell. 1,948,886; Feb. 27.
Fitting, Forming a. E. S. Cornell, jr. 1,948,564; Feb. 27.
Fixture, Combination. F. T. Meyer. 1,948,971; Feb. 27.
Flash light. O. C. Britsch. 1,948,613; Feb. 27.
Flask bar and gagger combined, Adjustable. E. F. Oyster. 1,948,867; Feb. 27.
Flask, Molding. G. A. Wiechert. 1,949,227; Feb. 27.
Flexible coupling. J. R. Grundy. 1,948,708; Feb. 27.
Flexible coupling. F. W. Peters. 1,948,868; Feb. 27.
Floor display stand. D. M. Carmichael. 1,948,902; Feb. 27.
Floor treating machine, Rotary. E. B. Gruendel. 1,948,815; Feb. 27.
Flow control fitting. J. Bijur. 1,948,503; Feb. 27.
Fluid dispenser. S. Hardcastle. 1,949,387; Feb. 27.
Fluid pressure brake. O. C. Wright. 1,949,033; Feb. 27.
Fluid segregator. D. Samiran. 1,948,543; Feb. 27.
Fluid treating system. J. H. Walker. 1,948,893; Feb. 27.
Folding chair. T. F. Murray. 1,949,282; Feb. 27.
Folding mechanism. H. Fankboner. 1,949,153; Feb. 27.
Follower for filing devices. B. G. Rand. 1,948,935; Feb. 27.
Food servicer. C. J. De Muth. 1,948,937; Feb. 27.
Footwear. F. Markowsky. 1,949,318; Feb. 27.
Force feed lubricator. N. Fries. 1,949,272; Feb. 27.
Form for concrete catch basins or the like. C. J. Mears. 1,948,931; Feb. 27.
Form for knock-down concrete structures. K. E. Bemis. 1,948,486; Feb. 27.
Form, Shoe. A. G. Legge. 1,948,621; Feb. 27.
Fractionating apparatus. R. W. Bielfeldt. 1,948,500; Feb. 27.
Frame: *See*—
Friction frame.
Frame. S. E. Overton. 1,949,081; Feb. 27.
Frame for looms, Tuft. C. C. Alvord. 1,948,835; Feb. 27.
Freezing apparatus. E. Behringer. 1,949,265; Feb. 27.
Friction for automatic bobbins, Open bottom. I. Snow. 1,949,192; Feb. 27.
Fuel burner, Finely divided. G. P. Jackson. 1,949,277; Feb. 27.
Fuel saver. J. H. Nitka. 1,949,026; Feb. 27.
Funnel guide and making it. G. Borneman. 1,948,560; Feb. 27.
Furnace: *See*—
Glass furnace. Vertical shaft furnace.
Furnace wall. O. Nygaard. 1,948,798; Feb. 27.

Furnaces. Operating high frequency. W. Fischer. 1,948,704; Feb. 27.
Furniture construction. C. H. Laun. 1,948,724; Feb. 27.
Furniture, Office. F. O. Peterson. 1,949,326; Feb. 27.
Fuse. C. Ringwald. Re19,097; Feb. 27.
Fuse. W. O. Schultz. 1,949,186; Feb. 27.
Fuse plug, Multiple glass top. C. I. Justheim. 1,949,016; Feb. 27.
Garment. H. D. Konski. 1,949,312; Feb. 27.
Garment or ironing press. E. Davis. 1,949,115; Feb. 27.
Gas burning apparatus. F. W. Stockmeyer. 1,949,030; Feb. 27.
Gas generating apparatus, Hydrogenating. M. J. Trumble and W. L. Seeley. 1,948,808; Feb. 27.
Gas valve lock. D. A. Pack. 1,949,178; Feb. 27.
Gas wells, Method of and apparatus for controlling. H. C. Otis. 1,949,323; Feb. 27.
Gases, Apparatus for use in the catalytic oxidation of. R. C. Jeffcott. 1,949,122; Feb. 27.
Gases with liquids, Reacting. K. A. Lindner. 1,949,392; Feb. 27.
Gasoline, Sweetening. B. B. Day. 1,948,565; Feb. 27.
Gate: *See*—
Crossing gate.
Gate valve. J. T. Fahey. 1,949,011; Feb. 27.
Gathering means for corn pickers. R. B. Hitchcock. 1,948,917; Feb. 27.
Gauge: *See*—
Pressure gauge.
Gauge for printing presses, Feed. C. L. Stiles. 1,949,286; Feb. 27.
Gauging, severing, piling, and holding mechanism for sheet material. J. A. Stromelly. 1,949,262; Feb. 27.
Gear: *See*—
Change speed gear. Draft and building gear.
Gear transmission. P. E. Darling and F. T. Bromley. 1,949,294; Feb. 27.
Gearing, Change speed. K. Maybach. 1,949,167; Feb. 27.
Gearing, Worm. H. E. Merritt. 1,948,795; Feb. 27.
Generator: *See*—
Steam generator.
Geometrical instrument. A. O. Wallerius. 1,948,952; Feb. 27.
Glass, Apparatus for grooving laminated. W. G. Hullhorst. 1,948,581; Feb. 27.
Glass, Apparatus for producing sheet. C. Cone. 1,948,563; Feb. 27.
Glass-blowing machine. J. W. Lynch and E. G. Bridges. 1,948,928; Feb. 27.
Glass furnace. L. D. Soubier. 1,949,380; Feb. 27.
Glassware, Manufacture of. A. Schiller. 1,948,682; Feb. 27.
Gold separator. R. F. Berry and R. L. Moon. 1,948,781; Feb. 27.
Governor device for engines. F. D. Biddle. 1,948,840; Feb. 27.
Governor, Electrical. F. I. Morgan. 1,948,591; Feb. 27.
Grate structure for burning solid fuel. G. Dalén. 1,948,699; Feb. 27.
Gravel washing machine. E. T. Burnside. 1,949,354; Feb. 27.
Grease and contain same, Device to strain hot, cooked. G. G. Rucker. 1,948,771; Feb. 27.
Grinder attachment for brake relining machines. H. B. Barrett. 1,949,070; Feb. 27.
Grinder, Die. E. R. Jones. 1,948,859; Feb. 27.
Grinder, Valve seat. C. C. Lee. 1,948,792; Feb. 27.
Grinding machine. H. L. Blood. 1,948,899; Feb. 27.
Grinding machine. W. J. Guild. 1,948,914; Feb. 27.
Grinding machine. R. A. Heald. 1,948,915; Feb. 27.
Grinding or abrading machine. H. H. Asbridge. 1,949,345; Feb. 27.
Grinding machine having a motor driven wheel spindle. H. W. Dunbar. 1,948,848; Feb. 27.
Groin, Adjustably permeable and extensible. G. A. Youngberg. 1,948,639; Feb. 27.
Guard, Insect. T. Finkelstein. 1,949,198; Feb. 27.
Gun. G. M. Barnes. 1,948,497; Feb. 27.
Gun carriage. A. P. Buquor. 1,949,352; Feb. 27.
Gunsight reticule adjustment means. F. A. Fahrenwald. 1,949,100; Feb. 27.
Gypsum, contained in superphosphate into ammonium sulphate, Conversion of. H. Oehme. 1,949,129; Feb. 27.
Hairdress protector. C. Armsby. 1,948,556; Feb. 27.
Hair waving, Apparatus for. G. Decker. 1,949,370; Feb. 27.
Harvester. R. L. Anderson. 1,948,484; Feb. 27.
Harvester, Bean. W. E. Urschel. 1,948,975; Feb. 27.
Harvester thresher. E. A. Johnston, C. R. Raney, and A. E. W. Johnson. 1,948,921; Feb. 27.
Harvester thresher. A. B. Welty. 1,948,895; Feb. 27.
Harvester, Windrow. A. C. Lindgren and C. R. Raney. 1,948,927; Feb. 27.
Head for gear shift levers, Illuminated. H. C. Fenzlein. 1,949,155; Feb. 27.
Headlight reflector. C. E. Rose. 1,948,660; Feb. 27.
Heat control apparatus for creameries, Moisture cup. A. F. Cline. 1,949,355; Feb. 27.
Heat control device. E. L. Fonseca. 1,949,250; Feb. 27.
Heat exchanger. A. T. Light. 1,949,127; Feb. 27.
Heat transfer apparatus for semisolid products. A. Johnson. 1,949,374; Feb. 27.
Heater: *See*—
Electric heater. Orchard heater.
Oil burning heater. Water heater.
Oil heater.
Heater and ventilator control system, Unit. W. Ewald. 1,948,494; Feb. 27.
Heater system. W. G. Noack. 1,948,541; Feb. 27.
Heating device for vehicles. O. Schmid and W. Heitzmann. 1,948,772; Feb. 27.
Heating element, Immersion. J. E. Smith. 1,949,080; Feb. 27.
Heating system. W. G. Noack. 1,948,535–6; Feb. 27.
Heels, Attaching top pieces to. R. Bain. 1,949,346; Feb. 27.
Height of aircraft, particularly for use when the aircraft is landing, Indicating the. D. F. Lucking. 1,949,166; Feb. 27.
High-tension switch. C. G. Koppitz. 1,949,01819; Feb. 27.
High-tension switch. C. G. Koppitz. 1,949,018–19; Feb. 27.
Hinge: *See*—
Adjustable hinge. Awning arm hinge.
Hinge for refrigerators, Concealed. J. Teller and A. P. Schulz. 1,948,775; Feb. 27.
Hinge with leveling and tilting adjustment, Gate. T. J. Roberts. 1,949,183; Feb. 27.
Holder: *See*—
Decoration and light holder. Tool holder.
Shoulder strap holder. Wire spool holder.
Holder and carrier for riveting machines. A. R. Havener. 1,949,388; Feb. 27.
Holder for safety razor blades. H. A. Louderback. 1,948,623; Feb. 27.
Hone. N. Katz. 1,949,300; Feb. 27.
Hood for wind stackers of grain separators, Controllable. C. D. Mattix. 1,948,930; Feb. 27.
Hot top. W. M. Charman and G. A. Peterson. 1,949,292; Feb. 27.
Hydrocarbon vapors, Treating. W. F. Sims and V. U. Cloer. 1,948,890; Feb. 27.
Hydrocarbons into lower boiling compounds, Conversion of. M. H. Tuttle. 1,948,872; Feb. 27.
Hydrocarbons, Separating. C. O. Young and G. A. Perkins. 1,948,777; Feb. 27.
Hydrogenation and dephlegmation apparatus. M. J. Trumble and W. L. Seeley. 1,948,809; Feb. 27.
Hydrogenation, Destructive. H. W. Strong. 1,949,089; Feb. 27.
Hydrogenation system. R. H. Price. 1,948,732; Feb. 27.
Hydrogenation system. R. F. Ruthruff. 1,948,736; Feb. 27.
Ice, Apparatus for receiving and dispensing blocks of. H. W. Clausen. 1,949,040; Feb. 27.
Ice dispensing apparatus. H. W. and P. C. Clausen. 1,949,039; Feb. 27.
Ignition point file. R. Nakano. 1,949,128; Feb. 27.
Ignition system, Auxiliary. R. G. Klingler. 1,948,925; Feb. 27.
Ignition system for combustion engines. P. Talmey. 1,948,974; Feb. 27.
Illumination and particularly to apparatus therefor, System in. M. H. Greenewalt. 1,949,101; Feb. 27.
Illumination apparatus. I. A. Yost. 1,948,690; Feb. 27.
Inclinometer for airplanes. G. C. Bouchard. 1,948,612; Feb. 27.
Indicating device. A. G. Blaylock. 1,949,141; Feb. 27.
Indicator: *See*—
Key indicator. Relative speed indicator.
Indicator. E. A. Elliott. 1,948,493; Feb. 27.
Industrial process, Apparatus for controlling. E. B. Foote. 1,949,199; Feb. 27.
Insert for masonry structures. E. Weil. 1,949,342; Feb. 27.
Insulating material. M. D. Squiers. 1,949,067; Feb. 27.
Internal combustion engine, Rotary. W. P. van Lammeren. 1,949,225; Feb. 27.
Iron and steel, Coating. J. L. Bray. 1,948,505; Feb. 27.
Jack: *See*—
Lifting jack.
Jacket, Breeding. G. P. Boardman. 1,949,004; Feb. 27.
Jig, Alignment. L. M. Butler. 1,949,007; Feb. 27.
Joint: *See*—
Ball and socket joint. Expansion joint.
Doll joint. Universal joint.
Junction box. W. A. Sharp. 1,949,337; Feb. 27.
Junction box. W. S. Thomas. 1,948,833; Feb. 27.
Key filing system. R. H. Thayer. 1,948,738; Feb. 27.
Key indicator. P. H. Howe. 1,948,985; Feb. 27.
Keying system. J. F. Farrington. 1,949,248; Feb. 27.
Knife, Cake. W. L. Nelson. 1,948,592; Feb. 27.
Lace. B. Edson. Des. 91,617; Feb. 27.
Lace scarf or similar article. H. W. Hucknall. Des. 91,626; Feb. 27.
Lacquering machine. C. D. Dallas. 1,948,843; Feb. 27.
Ladder. J. E. Kalgren. 1,949,076; Feb. 27.
Ladder supporting structure. F. S. Harsen. 1,948,577; Feb. 27.
Lamp: *See*—
Arc lamp. Television receiving lamp.
Music stand lamp.
Lamp structure. A. B. Smith. 1,948,806; Feb. 27.
Last and shoe grading. L. E. Topham. 1,948,547; Feb. 27.

Latch mechanism. J. P. Tarbox. 1,948,688; Feb. 27.
Lathe, Tracer controlled. F. O. Hoagland. 1,948,617; Feb. 27.
Leaf guide for cigar filler feeds. P. Peterson. 1,948,594; Feb. 27.
Leather or like material, Treatment of. H. S. Pochin. 1,948,994; Feb. 27.
Leather substitute, Maufacturing a. S. Yamamoto. 1,949,034; Feb. 27.
Lens. E. D. Tillyer. 1,948,636; Feb. 27.
Lens system, Double. R. Thomas. 1,949,339; Feb. 27.
Leveling device. O. M. Carleton. 1,948,508; Feb. 27.
Leveling device for cigarette machine feeds. G. W. Gwinn. 1,948,575; Feb. 27.
License plate lock bar. H. G. Williams. 1,948,554; Feb. 27.
Lid, Saucepan. M. N. Dunlap. 1,948,849; Feb. 27.
Lifting jack. W. H. Walker. 1,949,095; Feb. 27.
Light: *See*—
Flash light.
Light ray projection apparatus. R. P. De Vault. 1,948,516; Feb. 27.
Light sensitive cell. R. S. Lyon. 1,948,766; Feb. 27.
Lighter. H. T. Schiff. Des. 91,637; Feb. 27.
Lighting system for toy automobile. L. Strobacker. 1,949,088; Feb. 27.
Lightning arrester. E. A. Everett. 1,948,701; Feb. 27.
Lightning derivatives and making same. G. C. Howard. 1,948,858; Feb. 27.
Line and attenuator of constant resistance, Artificial. H. A. Rhodes. 1,948,675; Feb. 27.
Liner folding device. J. L. Ferguson. 1,948,657; Feb. 27.
Lip-shield. A. R. Gilchrist. 1,949,013; Feb. 27.
Liquid pressure equalizer. J. A. Lupfer. 1,948,988; Feb. 27.
Liquids, Treatment of. W. L. Spalding. 1,948,948; Feb. 27.
Lock: *See*—
Gas valve lock. Sash lock.
Lock. F. W. Kulicke. 1,948,765; Feb. 27.
Lock structure. F. L. Flanders. 1,948,705; Feb. 27.
Locking means for concrete mixers, Metering and closure. G. Jaeger and J. Eggert. 1,948,715; Feb. 27.
Locks, Automobile and other. V. L. Gilpin. 1,948,913; Feb. 27.
Loom. E. A. Daniels. 1,948,960; Feb. 27.
Looms, Multicell shuttle box for. J. Lassker. 1,949,056; Feb. 27.
Loud speaker, Electrostatic. H. Vogt. 1,948,637; Feb. 27.
Lubricants from petroleum oil, Obtaining high yields of high grade. P. L. Young. 1,949,231; Feb. 27.
Lubricating installation. J. Bijur. 1,948,501; Feb. 27.
Lubricating means. G. T. Kinney. 1,948,819; Feb. 27.
Lubricating system. E. S. MacPherson. 1,948,929; Feb. 27.
Lubricator: *See*—
Force feed lubricator. Rail lubricator.
Lubricator for rolling mills, Roll neck. H. E. Kettlewell and L. Petitclaire. 1,949,103; Feb. 27.
Luminair. R. A. Wood. 1,948,555; Feb. 27.
Luminescent tube. F. R. Balcar. 1,949,069; Feb. 27.
Machine for and process of fabricating container walls and accessories thereon. R. Blaho. 1,948,488; Feb. 27.
Machine for and process of fabricating container walls and accessories thereon. R. Blaho. 1,948,490; Feb. 27.
Machine for attaching heels to shoes. F. E. Bertrand. 1,948,499; Feb. 27.
Machine for feeding and cutting sheet material, Automatic. R. W. Barker. 1,948,641; Feb. 27.
Machine for operating upon the soles of shoes. G. A. Miner and A. A. Lawson. 1,948,531; Feb. 27.
Machine for sealing laminated glass. J. L. Drake. 1,948,566; Feb. 27.
Machine for splitting abaca stalks. N. H. Duckworth. 1,948,905; Feb. 27.
Machine for winding coils. C. H. Thordarson and O. A. Pearson. 1,948,776; Feb. 27.
Machine tool transmission and control mechanism. J. B. Armitage. 1,949,097; Feb. 27.
Magneto. C. F. Reis. 1,948,828; Feb. 27.
Magneto construction. W. C. Heath. 1,948,853; Feb. 27.
Magneto electric machine. W. C. Heath. 1,948,854; Feb. 27.
Mailing machine. A. Gay. 1,949,158; Feb. 27.
Mandrel. A. O. Abbott, jr. 1,948,608; Feb. 27.
Mandrel, Hinged. A. O. Abbott, jr. 1,948,607; Feb. 27.
Manicuring instrument. P. Picard. 1,949,327; Feb. 27.
Marking machine. A. A. Lawson. 1,948,525; Feb. 27.
Marquise structure. W. O. Prouty. 1,948,768; Feb. 27.
Mask for the absorption of poisonous gases. M. F. Seijo. 1,948,945; Feb. 27.
Massaging implement. A. M. Lockett. 1,949,316; Feb. 27.
Mat or floor covering, Floor. C. J. Petersen. 1,948,826; Feb. 27.
Material used in gravity separation, Apparatus for recovering. F. I. du Pont. 1,949,117; Feb. 27.
Materials of different specific gravities, Apparatus for separating. T. M. Chance. 1,949,242; Feb. 27.
Mattress tufting machine. J. W. Droll and A. H. Olson. 1,949,148; Feb. 27.
Measuring apparatus. S. T. Lester. 1,949,280; Feb. 27.
Meat shaping and supporting device. A. N. Benn. 1,948,839; Feb. 27.
Memorandum device. R. T. Fortune. 1,948,851; Feb. 27.
Menthols, Manufacture of optically active. J. Read and W. J. Grubb. 1,949,329; Feb. 27.
Metal, Method and material for coating and cleaning. R. R. Tanner and H. J. Lodeesen. 1,949,000; Feb. 27.
Metal strip used in the art of cutting circular and other nonrectangular blanks, Sheet. J. H. Murch. 1,948,532; Feb. 27.
Metal, Treating. W. H. Kelly. 1,949,051; Feb. 27.
Metal winding cone. K. W. H. Barthelmes. 1,949,290; Feb. 27.
Metal work, Architectural. K. Kornbau. 1,948,721; Feb. 27.
Metals, Manufacture of. H. A. Brassert. 1,948,697; Feb. 27.
Metallic sheets, Device for dusting. R. B. Dimmick. 1,949,270; Feb. 27.
Meter adjusting means. W. S. Brubaker. 1,949,006; Feb. 27.
Milk cooler. A. T. Light. 1,949,126; Feb. 27.
Milling cutter. A. Buchmüller. 1,948,648; Feb. 27.
Minerals and similar materials, Pulverizing. N. H. Andrews and W. J. Willoughby. 1,948,609; Feb. 27.
Mirror, Illuminated make-up. R. Ring, W. L. Pereira, and J. Horseley. Des. 91,636; Feb. 27.
Mirror, Transparent, prismoidal. W. J. Bell. 1,949,138; Feb. 27.
Missile projector for game boards. H. Casler. 1,948,784; Feb. 27.
Miter box and saw guide. F. Smetak. 1,949,261; Feb. 27.
Mixer: *See*—
Sand mixer.
Mold actuating mechanism. J. E. Pointon and L. S. Harber. 1,948,870; Feb. 27.
Molded articles from plastic materials, Making. J. H. Clarke. 1,949,072; Feb. 27.
Molding apparatus, Semipermanent. H. Emery, A. Irvine, and A. T. Bateman. 1,948,653; Feb. 27.
Monochrome and polychrome printing. K. Albrecht. 1,949,001; Feb. 27.
Motor: *See*—
Television motor.
Mounting, Adjustable leveler blade. R. G. Le Tourneau. 1,949,059; Feb. 27.
Mounting, Power plant. H. J. Nathan. 1,949,064; Feb. 27.
Mounting, Radiator. F. L. Foster. 1,948,706; Feb. 27.
Mouse and rat trap. S. E. Thomas. 1,948,601; Feb. 27.
Muffler. E. G. Gunn. 1,949,074; Feb. 27.
Multiple shoe brake. C. A. Lindblom. 1,948,822; Feb. 27.
Muscle exerciser, Foot. M. A. Nelson and E. W. Henry. 1,948,534; Feb. 27.
Music stand lamp. L. W. Andersen. 1,949,289; Feb. 27.
Musical instrument working through a keyboard and a photo-electric cell. P. M. G. Toulon. 1,948,996; Feb. 27.
Muzzle brake for drums. G. M. Barnes. 1,948,496; Feb. 27.
Needle, Sewing machine. E. K. Brown. 1,949,349; Feb. 27.
Needles, Making sewing machine. E. K. Brown. 1,949,350; Feb. 27.
Nest, Hen's. C. Z. Shallit. 1,949,085; Feb. 27.
Network distribution system. E. A. Hester. 1,948,711; Feb. 27.
Nitrocellulose, Producing. M. O. Schur. 1,948,944; Feb. 27.
Nitrogen containing conversion products of higher aliphatic hydrocarbon and preparing the same. K. Keller. 1,948,924; Feb. 27.
Nitrogeneous products, Preparation of. G. A. Kramer and L. Rosenstein. 1,948,968; Feb. 27.
Nozzle. M. O'Connor. 1,948,824; Feb. 27.
Nozzle attachment for air hoses. J. J. Gilfoy. 1,948,852; Feb. 27.
Nozzle, Fuel spraying. O. Baur. 1,948,557; Feb. 27.
Nut, Locked. A. J. Romeis and J. O. Gangstad. 1,948,830; Feb. 27.
Odometer and oiling indicator, Combined. J. A. Smith and A. E. Zierick. 1,948,946; Feb. 27.
Oil and process of making, Oxidized linseed. A. Schwarcman. 1,949,028; Feb. 27.
Oil burner. A. R. Hoeft. 1,948,857; Feb. 27.
Oil burner. W. E. Taft. 1,949,382; Feb. 27.
Oil burning apparatus. W. P. Schenk and J. Mazzoli. 1,949,260; Feb. 27.
Oil burning heater. E. G. Holthaus. 1,948,662; Feb. 27.
Oil, Cracking hydrocarbon. H. A. Smith. 1,949,029; Feb. 27.
Oil filter. F. F. Emory. 1,948,654; Feb. 27.
Oil heater. J. T. Voorheis. 1,948,550; Feb. 27.
Oiler, Overhead valve. G. L. Baughman. 1,949,003; Feb. 27.
Oils from heavy hydrocarbon oils, Obtaining valuable high boiling and low boiling. P. L. Young. 1,949,230; Feb. 27.
Oils, Purification of hydrocarbon. W. M. Malisoff. 1,948,528; Feb. 27.
Oils to produce light oils, Apparatus for cracking hydrocarbon. G. Egloff and H. P. Benner. 1,948,567; Feb. 27.
Oils, Treatment of hydrocarbon. L. C. Huff. 1,948,713–4; Feb. 27.

1.4.5.8-naphthalene-tetra carboxylic acid and substitution products thereof, Preparing. H. Greune and W. Eckert. 1,949,202; Feb. 27.
Opener, Bottle. F. Neumer. Des. 91,635; Feb. 27.
Optical system. W. G. Martin. 1,948,588; Feb. 27.
Orchard heater. R. S. Shanks. 1,949,336; Feb. 27.
Organic compounds from organic compounds having one or more double bonds in the molecule, Manufacture of. A. J. van Peski. 1,948,891; Feb. 27.
Organic compounds, Preservation of oxidizable. H. M. Bunbury, W. J. S. Naunton, and K. W. Palmer. 1,949,240; Feb. 27.
Ornamental plate for wheels. G. A. Lyon. 1,949,317; Feb. 27.
Orthoptic training device. T. A. Brombach. 1,948,901; Feb. 27.
Oscillator. J. G. Beard. 1,948,692; Feb. 27.
Oscillator, Vacuum mounted. A. L. R. Ellis. 1,949,149; Feb. 27.
Outlet and connection. H. D. Miller. 1,948,933; Feb. 27.
Oxidation products, Fractioning partial. J. H. James. 1,948,817; Feb. 27.
Oyster packing apparatus. E. T. McNaney. 1,949,170; Feb. 27.
Package. C. F. Haug. 1,949,161; Feb. 27.
Package of expansible material and wrapper therefor. J. W. Clark. 1,948,615; Feb. 27.
Packing. J. Restein. 1,948,630; Feb. 27.
Packing stand. S. S. Jacobs. 1,948,522; Feb. 27.
Pad: *See*—
Diathermy contact pad.
Pan, Miner's. O. K. Nicolai. 1,948,797; Feb. 27.
Paper, Apparatus for drying. F. C. Ladd. 1,949,125; Feb. 27.
Paper, Apparatus for treating and seasoning. W. R. Redd. 1,949,330; Feb. 27.
Paper attachment for show cases, Wrapping. C. V. Hill. 1,949,373; Feb. 27.
Paper bag. T. S. Falk. 1,948,569; Feb. 27.
Paper for nitration, Conditioning. M. O. Schur, B. G. Hoos, and T. C. Morris. 1,948,943; Feb. 27.
Paper, Manufacture of. D. A. Smith. 1,949,188; Feb. 27.
Paper, Treating. L. M. Yoerg. 1,948,874; Feb. 27.
Parallel steam engine. T. O. Liles. 1,948,526; Feb. 27.
Passenger lift for disk gas holders. A. Lorentz. 1,948,527; Feb. 27.
Pavement signal. W. E. Grace. Des. 91,622; Feb. 27.
Peat machine. A. Doering. 1,949,146; Feb. 27.
Pen, Fountain. W. Friedman. 1,949,201; Feb. 27.
Petroleum hydrocarbons, Process and apparatus for the conversion of. W. M. Cross. 1,948,492; Feb. 27.
Phenol ethers and preparing them. G. Kraenzlein and A. Voss. 1,948,667; Feb. 27.
Photochemical production of forms or patterns for planograph printing. H. Weil. 1,948,604; Feb. 27.
graphic printing. H. Weil. 1,948,604; Feb. 27.
Picture frame and convex glass, Combined. H. A. Tidemann. Des. 91,640; Feb. 27.
Picture puzzle. A. F. Decker. 1,948,962; Feb. 27.
Pigment from organic carbonaceous earth and producing the same, Dispersed. L. P. Dove. 1,949,147; Feb. 27.
Pile fabric. J. F. Shaw, J. M. Donnelly, and J. Johnston. 1,948,936; Feb. 27.
Pilot jet assembly. E. W. Roberts. 1,949,182; Feb. 27.
Pipe: *See*—
Smoking pipe.
Pipe. S. B. Dabney. 1,948,649; Feb. 27.
Pipe, Apparatus and method for installing. C. Gilman. 1,948,707; Feb. 27.
Pipe coupling, Flexible irrigation. J. A. Lamble. 1,949,055; Feb. 27.
Pipe fittings, Forming pipe sheet metal. E. S. Cornell, jr. 1,949,197; Feb. 27.
Pipe or the like, Apparatus for installing and guiding. W. H. Robertson. 1,948,733; Feb. 27.
Pitcher or similar article. L. E. Hellmann. Des. 91,625; Feb. 27.
Plate or similar article. Y. Buma. Des. 91,602; Feb. 27.
Plate or similar article. R. L. Marwede. Des. 91,633; Feb. 27.
Plow. E. A. Davis. 1,948,961; Feb. 27.
Plug: *See*—
Fuse plug. Renewable fuse plug.
Potato having the skin removed with fumes of burning sulphur to bleach, preserve, and to prevent discoloration, Treating an Irish. C. D. Draper. 1,948,877; Feb. 27.
Potato to remove the corky layer and the product thereof, Treating an Irish. S. A. Patterson. 1,948,884; Feb. 27.
Power system. J. W. McNairy. 1,949,216; Feb. 27.
Power unit, Hydraulic. B. Walker. 1,948,951; Feb. 27.
Press: *See*—
Garment or ironing press. Printing press.
Pressure and centrifugal extractor, Combined. G. W. Johnson. 1,949,278; Feb. 27.
Pressure gauge. J. C. Crowley. 1,949,293; Feb. 27.
Pressure regulating device for a hot water heating system. J. Manneschmidt, jr. 1,949,106; Feb. 27.
Printing and slitting machine. A. E. F. Moone. 1,948,590; Feb. 27.
Printing machine. W. K. Eckhard. 1,948,651; Feb. 27.
Printing mechanism. E. Laroche. 1,949,389; Feb. 27.
Printing plates, Production of mercurized. H. G. Zimmermann. 1,949,233; Feb. 27.
Printing press. W. H. Smith. 1,949,132; Feb. 27.
Printing press. B. C. Stickney. 1,949,223; Feb. 27.
Printing presses, Antioffset mechanism for. R. J. Greenway. 1,949,102; Feb. 27.
Propeller blades, Making. J. Squires. 1,948,832; Feb. 27.
Protective apparatus for high tension transmission lines. W. A. Heinrich. 1,948,855; Feb. 27.
Protective arrangement for alternating current polyphase power transmission systems. R. O. Kapp and C. G. Carrothers. 1,948,717; Feb. 27.
Protector: *See*—
Cotton bat protector. Wave protector.
Hair dress protector.
Protector for turpentine collecting receptacles. A. J. Browning. 1,948,783; Feb. 27.
Pull clamp. N. A. Pinson. 1,948,869; Feb. 27.
Pull rod connection. R. A. Colgin. 1,949,368; Feb. 27.
Punch. W. F. and A. W. Jurey. 1,949,308; Feb. 27.
Quoin, Printer's. J. E. Lee and F. Barney. 1,948,821; Feb. 27.
Rack: *See*—
Shoe display rack. Shoe rack.
Rack for periodicals, Display. F. Freson. 1,949,200; Feb. 27.
Radiator control, Thermostatic. J. G. Dintilhac. 1,949,009; Feb. 27.
Radiator shells and the like, Method and apparatus for producing. G. E. Ireland. 1,948,918; Feb. 27.
Radio direction finder. E. Kramar. 1,949,256; Feb. 27.
Radio receiving system. G. P. Adair. 1,949,136; Feb. 27.
Radio set testing apparatus. J. H. Miller. 1,948,729; Feb. 27.
Radiotransmission without distortion. R. K. Potter. 1,948,671; Feb. 27.
Radiotube. H. P. Pratt. 1,949,395; Feb. 27.
Radio tuning mechanism, Automatic. F. Harte. 1,948,710; Feb. 27.
Rail lubricator, Elevator-guide-. J. Dunlop. 1,948,747; Feb. 27.
Reaction with hydrogen and in apparatus therefor. M. Pier, K. Wissel, and W. Dinkler. 1,949,109; Feb. 27.
Reamer. G. A. De Vlieg. 1,949,116; Feb. 27.
Receptacle: *See*—
Cash and check collecting receptacle. Shaving receptacle.
Water-sealed receptacle.
Receptacle. J. Makowsky. 1,948,794; Feb. 27.
Receptacle head for electric lights. C. M. Cole. 1,949,008; Feb. 27.
Rectifier comprising an auxiliary electrode, High tension. G. Holst. 1,949,048; Feb. 27.
Reel: *See*—
Fishing reel.
Refractory article. T. M. Caven. 1,949,038; Feb. 27.
Refrigerant compressor, Electric. P. W. Des Roches. 1,948,846; Feb. 27.
Refrigerating apparatus. W. B. Floyd. 1,948,572; Feb. 27.
Refrigerating apparatus. J. A. Macready and W. H. Matthews. 1,948,587; Feb. 27.
Refrigerating apparatus, Absorption. R. C. Fuller. 1,949,157; Feb. 27.
Refrigeration system. R. V. Grayson. 1,948,790; Feb. 27.
Refrigerator. H. B. Adams. 1,948,780; Feb. 27.
Refrigerator and ice-cream freezer, Combined. A. F. Sawyer. 1,948,681; Feb. 27.
Refrigerator container, Railway. L. M. Showers, jr., and I. M. Chambers. 1,949,381; Feb. 27.
Refrigerator truck body. J. A. Welland. 1,948,954; Feb. 27.
Regulating system. R. D. Evans. 1,948,749; Feb. 27.
Regulating system. R. D. Evans and H. C. Nycum. 1,948,750; Feb. 27.
Relative speed indicator. A. Broadmeyer. 1,949,239; Feb. 27.
Renewable fuse plug. J. W. Hooler. 1,949,305; Feb. 27.
Repository for refuse cans. G. Forni. 1,949,301; Feb. 27.
Resin-acid condensation products, Production of. E. Fonrobert and A. Greth. 1,948,573; Feb. 27.
Rhodium plating. T. P. Shields. 1,949,131; Feb. 27.
Ring clincher. L. H. Miller and F. C. Lane. 1,948,865; Feb. 27.
Rock drill. M. C. Huffman. 1,949,075; Feb. 27.
Rod: *See*—
Welding rod.
Roll, Wound. T. J. Salsman. 1,949,259; Feb. 27.
Rosin size already applied to papers, Recuperating. S. Yano. 1,949,000; Feb. 27.
Rotary drilling bit. S. R. Hopkins. 1,949,049; Feb. 27.
Rotary separator. H. A. F. von Rechenberg. 1,948,998; Feb. 27.
Rotor for magnetos. C. F. Reis. 1,948,829; Feb. 27.
Rubber article and making the same. C. W. Leguillon. 1,949,057; Feb. 27.
Runner, Tile tying. T. D. Corcoran and L. A. Wolff. 1,948,510; Feb. 27.
Safety valve. A. D. Eplett. 1,949,150; Feb. 27.
Sample taking apparatus. G. J. Barrett and S. Robichaux. 1,948,632; Feb. 27.
Sample taking apparatus. S. Robichaux and G. J. Barrett. 1,948,631; Feb. 27.
Sand blast system. S. C. Vessy. 1,948,873; Feb. 27.
Sand mixer. H. S. Simpson. 1,948,805; Feb. 27.
Sand or sediment trap for pumping wells. F. E. Kapp. Re19,096; Feb. 27.
Sanitary container. R. A. Dougherty. 1,949,010; Feb. 27.

Sash construction. C. M. Verhagen. 1,949,193; Feb. 27.
Sash lock. W. C. Repass. 1,948,542; Feb. 27.
Sash lock, Window. J. P. Murphy. 1,949,025; Feb. 27.
Saw. H. Youlten, M. Lindqvist, and M. Berglund. 1,949,196; Feb. 27.
Screw-down. B. R. Shover. 1,948,804; Feb. 27.
Sea growth specimen, Mounting a. L. O. Clark. 1,949,268; Feb. 27.
Seal. S. Klein. Des. 91,630; Feb. 27.
Seal for wire and the like, Metal. W. King. 1,948,719; Feb. 27.
Seat: *See*—
Stadium seat.
Securing members together. L. Melind. 1,949,171; Feb. 27.
Self-luminous device. J. A. Kelly. 1,948,718; Feb. 27.
Semitrailer. L. M. Francis, E. W. Jeffers, and W. A. Fader. 1,949,156; Feb. 27.
Separating apparatus. A. J. Weinig. 1,948,606; Feb. 27.
Separating system. H. Kreisinger. 1,949,279; Feb. 27.
Separator: *See*—
Gold separator.
Rotary separator.
Steam separator.
Service device. H. G. Zola. 1,948,778; Feb. 27.
Sewage disposal. C. L. Riley. 1,949,181; Feb. 27.
Sewing machine. H. F. Gruman and C. L. Knower. 1,949,073; Feb. 27.
Sewing machine, Multineedle. G. A. Boettcher. 1,948,876; Feb. 27.
Sewing machines, Binder support for. G. Sauer. 1,949,332; Feb. 27.
Shade, Roll. H. H. Collins. 1,949,356; Feb. 27.
Sharpener, Slicing machine knife. W. A. Van Berkel. 1,948,811; Feb. 27.
Shaving receptacle. H. C. Laufe. 1,948,987; Feb. 27.
Shears with movable nonoperated knives for cutting running material of any required length, Rotating. E. Müller. 1,948,796; Feb. 27.
Sheet material, Increasing the rigidity of corrugated. K. Knutson. 1,948,619; Feb. 27.
Sheet, mattress, and blanket clamp. H. B. Hart. 1,948,965; Feb. 27.
Shim. B. Darrach. 1,949,114; Feb. 27.
Shipping bag. R. F. Herder. 1,949,121; Feb. 27.
Shock absorbing mechanism, Friction. J. F. O'Connor. 1,948,883; Feb. 27.
Shoe. V. De Liso. Des. 91,610–15; Feb. 27.
Shoe, Arch supporting. A. Young. 1,948,638; Feb. 27.
Shoe cleat fastener, Athletic. J. T. Riddell. 1,948,885; Feb. 27.
Shoe display rack. L. Knupp. 1,949,017; Feb. 27.
Shoe finishing tool. W. A. Reed. 1,948,673; Feb. 27.
Shoe heel and lift, Removable. B. Jassen. 1,948,967; Feb. 27.
Shoe rack. C. T. Jones. 1,948,666; Feb. 27.
Shoulder strap holder. F. M. Richardson. 1,949,331; Feb. 27.
Sign: *See*—
Vehicle advertising sign.
Signal: *See*—
Traffic signal.
Signal device. C. F. A. Eddy. 1,949,297; Feb. 27.
Signal receiver. M. Vos. 1,949,134; Feb. 27.
Signal system for dumb-waiters and the like. P. J. Dugan. 1,949,245; Feb. 27.
Silk, Weighting natural. R. Clavel. 1,949,143; Feb. 27.
Silver, etc., from tarnishing, Protecting. G. E. Herring and F. E. Dean. 1,949,205; Feb. 27.
Sinker for knitting machines. H. E. Stout. 1,948,599; Feb. 27.
Siphon system for slashers. G. C. Dukes. 1,948,963; Feb. 27.
Slicing machine. C. Littlefield. 1,948,622; Feb. 27.
Slitting machine. H. E. Waner. 1,949,066; Feb. 27.
Slug casting machine. F. C. Frolander. 1,949,302; Feb. 27.
Smoking pipe. C. K. Brown. 1,948,645; Feb. 27.
Soap dispenser, Portable foot pedal. M. W. Levernier. 1,949,315; Feb. 27.
Soap solution, Making. R. M. Bagley. 1,949,264; Feb. 27.
Socket. G. Pearson. 1,949,359; Feb. 27.
Socket. N. C. Schellenger. 1,949,358; Feb. 27.
Socket, Pull. C. E. Avery. 1,948,495; Feb. 27.
Sodium-sesqui-silicate and forming the same. G. W. Morey. 1,948,730; Feb. 27.
Sound reproducing device. J. M. Robinson. 1,949,184; Feb. 27.
Speed transmission, Variable. A. Y. Dodge. 1,948,847; Feb. 27.
Speed transmission, Variable. V. Kinser. 1,949,078; Feb. 27.
Spindle adjustment. R. A. Carlson. 1,948,507; Feb. 27.
Sponge rubber, Manufacturing strip. F. M. Netzel. 1,949,175; Feb. 27.
Sporting articles, Construction of. P. V. Paul. 1,949,325; Feb. 27.
Spray head. C. A. Schacht. 1,949,334; Feb. 27.
Spraying device. G. L. Neely. 1,948,533; Feb. 27.
Spreader, Fertilizer and like. W. L. Lindgren. 1,948,861; Feb. 27.
Spring assemblies, Manufacturing. J. F. Gail. 1,948,754; Feb. 27.
Stadium seat. C. H. Cox. 1,949,113; Feb. 27.
Stage construction for theaters. G. E. Young. 1,949,232; Feb. 27.
Stall, Tie. K. L. Smith. 1,949,189; Feb. 27.
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Packing stand.
Starting device for internal combustion engines. M. Bailly. 1,948,897; Feb. 27.
Steam generator. W. G. Noack. 1,948,537–40; Feb. 27.
Steam generator. W. G. Noack. 1,948,940; Feb. 27.
Steam press for cellulose materials. J. J. E. Baumgarten. 1,948,898; Feb. 27.
Steam separator. H. J. Kerr. 1,948,524; Feb. 27.
Steel, Method and apparatus for the production of molten. H. A. Brassert. 1,948,695; Feb. 27.
Steel skeleton for reenforced concrete structures. B. Bauer. 1,948,691; Feb. 27.
Steering mechanism. G. P. Berry. 1,948,487; Feb. 27.
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Stones from coal, Apparatus for removing. A. J. Revelart. 1,948,800; Feb. 27.
Stop for electrically driven machines, Automatic. W. J. Gibbs. 1,949,119; Feb. 27.
Stop mechanism, Movable. S. H. Owens. 1,949,218; Feb. 27.
Stop valve, Straight flow. M. Smolensky. 1,949,190–1; Feb. 27.
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Suede leather having a high polish, and suede leather of this type, Making. M. Weyner. 1,949,384; Feb. 27.
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Sulphates, Preparation of dialkyl. H. L. Cox. 1,949,369; Feb. 27.
Sulphuric esters of the anthraquinone series and process suitable for making same. D. A. W. Fairweather and J. Thomas. 1,949,299; Feb. 27.
Superheater, Steam. W. G. Noack. 1,948,939; Feb. 27.
Superphosphate, Ammoniation of. E. W. Harvey. 1,948,520; Feb. 27.
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Support for motor cars, Resilient. H. Jyrch. 1,948,922; Feb. 27.
Surgical suture. G. M. Randall. 1,949,111; Feb. 27.
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Tape, Binding. E. Grube. 1,949,274; Feb. 27.
Tape, Making heat insulating. G. S. Fabel. 1,949,298; Feb. 27.
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Television receiving lamp. D. D. Knowles. 1,948,720; Feb. 27.
Terry loop knitted fabric. H. McAdams. 1,949,319; Feb. 27.
Testing device for internal-combustion engines. J. C. McMurray. 1,948,882; Feb. 27.
Textile fabric. M. U. Juestrich. Des. 91,628; Feb. 27.
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Thermostatic shutter control. C. E. Furgason. 1,948,910; Feb. 27.
Thread supplying adjunct. R. N. Corthell. 1,949,144; Feb. 27.
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Tile width or length measuring and marking machine. J. A. Bower. 1,948,782; Feb. 27.
Time control system for radio receiving apparatus, Automatic. K. Purdy. 1,948,672; Feb. 27.
Timing device. C. H. Hodgkins. 1,948,758; Feb. 27.
Toaster. C. E. Beardsley. 1,948,693; Feb. 27.
Toaster. F. Bendix and M. Bloch. 1,948,978; Feb. 27.
Toaster. F. Kuhn and L. H. Thomas. 1,949,124; Feb. 27.
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Toaster device. A. B. Starr. 1,949,361; Feb. 27.
Tobacco free from nicotine, Preparing. L. Frank. 1,949,012; Feb. 27.

Toggle clip. I. M. Jones. 1,949,123; Feb. 27.
Tool: *See*—
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Tool and making same. C. W. Balke. 1,948,489; Feb. 27.
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Tool for setting earth anchors. W. A. Heinrich. 1,948,856; Feb. 27.
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Tool, Making a. J. H. Howard and A. C. Catland. 1,949,050; Feb. 27.
Toothbrush, Rotary. G. E. Carlson, O. P. Larson, and S. R. Swenson. 1,949,241; Feb. 27.
Torch, Heating. L. W. Stettner. 1,948,737; Feb. 27.
Torque for gas electric cars, Automatic. N. L. Freeman and N. W. Storer. 1,948,752; Feb. 27.
Tower, Cooling. B. H. Coffey. 1,948,980; Feb. 27.
Toy or instrument, Musical. E. C. Peckham. 1,949,284; Feb. 27.
Track circuit system. A. G. Williamson. 1,949,194; Feb. 27.
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Traffic regulating device. L. K. Wright. 1,948,896; Feb. 27.
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Trailer, Dispensing. R. C. Yant. 1,949,195; Feb. 27.
Trailer hitch mechanism. P. T. Robin. 1,948,677; Feb. 27.
Transmission. R. Lapsley. 1,948,723; Feb. 27.
Transmission, Free wheeling. J. M. Simpson and S. O. White. 1,949,221; Feb. 27.
Transmission, Hydraulic. W. Ferris. Re19,095; Feb. 27.
Transmission, Mass inertia. A. Y. Dodge. 1,949,042; Feb. 27.
Transmitter supply source. R. Villem and R. Aubert. 1,949,263; Feb. 27.
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Animal trap.
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Tray, Dyeing and washing. P. Tschammer. 1,949,287; Feb. 27.
Tray, Laundry tub and soap. O. S. Burman. 1,949,353; Feb. 27.
Tray, Service. K. E. Porter. 1,949,285; Feb. 27.
Tray, Serving. L. S. Hunt. Des. 91,627; Feb. 27.
Triode vacuum tube. W. G. Wade. 1,949,397; Feb. 27.
Tripod stabilizer. E. K. Johnson. 1,948,584; Feb. 27.
Truck, Industrial. W. Schroeder. 1,948,802; Feb. 27.
Truss. N. Dondelinger. 1,948,785; Feb. 27.
Tub. J. J. McCabe. Des. 91,632; Feb. 27.
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Electric discharge tube.
Luminescent tube.
Triode vacuum tube.
X-ray tube.
Tubes of celluloid or the like, Apparatus for producing closed ended. J. N. Whitehouse. 1,948,605; Feb. 27.
Tubing machine. V. Royle. 1,949,084; Feb. 27.
Tubing or the like, Flexible ventilating. W. H. Evans. 1,948,909; Feb. 27.
Tubular bodies of glass and the like, Apparatus for the drawing of. J. Cardot. 1,949,037; Feb. 27.
Turf and making the same, Artificial. M. Achterhof. 1,949,068; Feb. 27.
Turf, Artificial. A. B. Merrill. 1,949,063; Feb. 27.
Typewriter action, Noiseless. R. Atti. 1,948,955; Feb. 27.
Typewriter attachment for desks. M. A. Earley. 1,949,118; Feb. 27.
Typewriter ribbons, Apparatus for holding and feeding. H. T. Mosfelt and H. Schagerholm. 1,949,107; Feb. 27.
Typewriting and computing machine, Combined. A. G. F. Kurowski. 1,948,722; Feb. 27.
Typewriting machine. J. A. B. Smith. 1,948,684; Feb. 27.
Universal joint. R. E. Rundell. 1,948,597; Feb. 27.
Vacuum tube device. W. G. Wade. 1,949,396; Feb. 27.
Vacuum tube tester. C. E. Urban. 1,949,341; Feb. 27.
Valve: *See*—
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Valve. A. Baur. 1,949,365; Feb. 27.
Valve. J. Hackethal. 1,948,709; Feb. 27.
Valve. F. O. Rick. 1,948,676; Feb. 27.
Valve closure for collapsible tubes. E. J. Richards. 1,949,219; Feb. 27.
Valve control for power operation of levers. W. L. McDonald. 1,948,726; Feb. 27.
Valve mechanism. A. J. and K. T. Penick. 1,948,628; Feb. 27.
Valve protector for gas containers. G. Jaeger. 1,948,966; Feb. 27.
Valve protector for gas containers. H. Wayer and G. Jaeger. 1,948,953; Feb. 27.
Valve rod guide for flush tanks. J. Van Dyke. 1,949,092; Feb. 27.
Valve stem. W. J. Kirkpatrick. 1,948,762; Feb. 27.
Valve structure for tanks, Safety and vacuum. G. W. King. 1,949,208; Feb. 27.
Valves, Making. R. B. Lewis, jr. 1,948,793; Feb. 27.
Vapor dispensing apparatus. G. Sykes. 1,948,635; Feb. 27.
Vapor-gas mixtures, Treatment of. R. Pyzel. 1,948,595; Feb. 27.
Variable condenser. J. J. Aurynger. 1,949,137; Feb. 27.
Variable speed transmission. F. R. Ewer. 1,948,656; Feb. 27.
Vault, Burglarproof. B. D. Kelly. 1,949,310; Feb. 27.
Vehicle advertising sign. W. G. Hasley. 1,948,578; Feb. 27.
Vehicle, Invalid. J. H. Kasten and H. McIntosh. 1,949,163; Feb. 27.
Vehicle, Motor. G. H. Curtiss. 1,948,744–5; Feb. 27.
Vehicle with actuated doors, Dump. H. F. Flowers. 1,949,120; Feb. 27.
Vehicles and the like, Transporting. I. H. Judd. Re19,094; Feb. 27.
Vehicles and the like, Transporting. J. B. Miller. 1,949,172; Feb. 27.
Vent for tanks. F. Shenton. 1,948,773; Feb. 27.
Ventilating and air treating apparatus. A. Sargent. 1,949,379; Feb. 27.
Vertical shaft furnace. H. A. Brassert, F. Willie, and P. Zimmermann. 1,948,696; Feb. 27.
Vessel and removing caps therefrom. F. L. Darling. 1,948,513; Feb. 27.
Vessels, Manufacturing. J. K. Wirth. 1,949,135; Feb. 27.
Vinegar, Making. C. S. Ash. 1,948,836; Feb. 27.
Vision, Apparatus for testing. A. P. Wheelock and H. E. Tensen. 1,949,067; Feb. 27.
Voltage balance in electrolytic condensers. R. D. Mershon. 1,948,864; Feb. 27.
Voting machine. A. N. Gustavson. 1,948,660; Feb. 27.
Voting machine. A. N. Gustavson. 1,948,661; Feb. 27.
Vulcanizer, Continuous. A. L. Wallace. 1,949,226; Feb. 27.
Warp, Preparing. A. Bruenn. 1,948,646; Feb. 27.
Washing machine. T. W. Behan. 1,949,235; Feb. 27.
Washing machine. H. W. Covert. 1,948,957; Feb. 27.
Water closet. J. C. Duner. 1,949,246; Feb. 27.
Water cooler. H. E. Blood and O. A. Brandel. 1,948,644; Feb. 27.
Water heater. H. Olin. 1,948,731; Feb. 27.
Water heater, Domestic. A. Russo. 1,948,735; Feb. 27.
Waterproof composition and making same, Inflexible. F. W. Yeager. 1,949,229; Feb. 27.
Water-sealed receptacle. C. H. Lasker. 1,948,820; Feb. 27.
Water softening apparatus. A. J. Dotterweich. 1,949,044; Feb. 27.
Water to concrete mixers, Apparatus for supplying. C. F. Ball. 1,949,364; Feb. 27.
Wave protector, Permanent. S. D. Weinberger. 1,949,096; Feb. 27.
Wave transmission with narrowed band. J. C. Steinberg. 1,948,973; Feb. 27.
Weather resisting material. P. W. Codwise. 1,948,979; Feb. 27.
Weather-strip. H. A. Myers. 1,949,321; Feb. 27.
Weather stripping. D. E. Ross. 1,948,679; Feb. 27.
Web tensioning apparatus. D. B. Bradner. 1,949,237; Feb. 27.
Webs, Apparatus for operating on wound. A. Broadmeyer. 1,949,238; Feb. 27.
Welding apparatus. G. H. Koch. 1,948,763; Feb. 27.
Welding apparatus, Arc. G. H. Koch. 1,948,764; Feb. 27.
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Welding, Method and apparatus for. E. Riemenschneider. 1,948,801; Feb. 27.
Welding rod. J. B. Austin. 1,949,398; Feb. 27.
Well holes, Method of and explosive for blasting deep. J. M. Jeffries. 1,948,583; Feb. 27.
Wheel: *See*—
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Whipping attachment for drink mixers. G. C. Hill. 1,949,047; Feb. 27.
Wind deflector. E. J. Beisel. 1,948,642; Feb. 27.
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Wire, Drawing. A. J. Anselm. 1,948,485; Feb. 27.
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Wire spool holder. J. G. Roehm. 1,949,378; Feb. 27.
Wood preserving. H. W. Walker. 1,948,551; Feb. 27.
Worm cutting machine. E. W. Miller. 1,948,530; Feb. 27.
X-ray tube. A. Bouwers. 1,949,005; Feb. 27.
Yarn, Cellophane. E. W. Twitchell. 1,949,065; Feb. 27.
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CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number

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Prints	28—No.	14,552 to No. 14,579, inclusive.
Reissues	4—No.	19,069 to No. 19,072, inclusive.
Plant Patent	1—No.	86
Designs	24—No.	91,453 to No. 91,476, inclusive.
Patents	959—No.	1,945,506 to No. 1,946,464, inclusive.
Total	1,231	

Notices of Cancellation

U. S. Patent Office, *Washington, Jan. 10, 1934.*

United States Chemical Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the Marine Chemicals Company, Ltd., of 148 Montgomery Street, San Francisco, Calif., to effect the cancellation of the trade-mark registration of the United States Chemical Co., of 427 Third Avenue, Pittsburgh, Pa., No. 144,485, dated July 5, 1921, and the notice of such proceeding sent by registered mail to the said United States Chemical Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said United States Chemical Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

RICHARD SPENCER,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Jan. 16, 1934.*

Lessmann Bros., their assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Alexanderwerk A. von der Nahmer Aktien-Gesellschaft, Remscheid, Germany, to effect the cancellation of the trade-mark registration of Lessmann Bros., 362 East 156th Street, New York, N. Y., No. 154,996, dated May 16, 1922, and the notice of such proceeding sent by registered mail to the said Lessmann Bros., at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Lessmann Bros., their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

RICHARD SPENCER,
First Assistant Commissioner.

Adjudicated Patents

(C. C. A. N. Y.) Root patent, No. 1,321,150, for controlling-valve for vacuum-operated power means, claims 1, 2, 3, and 4, if valid, *Held* not infringed. *Bragg-Kliesrath Corporation* v. *Walter S. Vogel & Co.*, 67 F.(2d) 531.

(D. C. Ill.) Crawford patent, No. 1,352,184, for radiator shield, claims 1, 4, and 8 *Held* infringed. *Detroit Motor Appliance Co.* v. *General Motors Corporation*, 5 F. Supp. 27.

(C. C. A. Mich.) Borst patent, No. 1,374,352, for vehicle, claims 2 and 8 *Held* invalid. *Fruchauf Trailer Co.* v. *Highway Trailer Co.*, 67 F.(2d) 558.

(C. C. A. Mich.) Borst patent, No. 1,383,381, for semi-trailer, claims 1, 4, and 22 *Held* not infringed. *Id.*

(D. C. Pa.) Vogt, Massolle, and Engl patent, No. 1,713,726, for device for photographs with linear photograph carriers *Held* valid and infringed. *American Tri-Ergon Corporation* v. *Altoona Public Theaters*, 5 F. Supp. 32.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,551,515, W. K. Howe, Automatic train control system, decided November 29, 1933, claim 72.

Pat. 1,753,260, C. F. W. Bates, Radio tube, decided December 7, 1933, claim 4.

Pat. 1,849,131, G. H. Zouck, Train pipe connector, decided November 29, 1933, claim 12.

Pat. 1,852,368, Ray Plank, Train dispatching system for railroads, decided January 10, 1934, claims 5, 6, 7, and 8.

Pat. 1,854,208, T. L. Lynch and H. L. Rilling, Inclination indicating device for oil wells, decided January 18, 1934, claims 1, 16, 21, and 27.

Condition of Applications Under Examination at Close of Business January 20, 1934

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 41,572; Trade-Mark Division, 1,147; Oldest new case, September 13, 1933; oldest amended, August 21, 1933.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Sept. 30	Oct. 6	451
6708	2. HERRMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Sept. 25	Sept. 25	727
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Oct. 20	Oct. 21	626
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Oct. 11	Sept. 27	389
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Oct. 21	Oct. 21	475
4898C	6. LEWERS, A. M., Carbon Chemistry	Sept. 23	Sept. 28	946
5725	7. JARBOE, C. G., Optics; Photography	Oct. 10	Oct. 10	836
3887	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov. 21	Dec. 1	243
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 16	Nov. 22	437
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Oct. 11	Oct. 17	459
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Malling and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 20	Sept. 20	586
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms.	Oct. 11	Oct. 8	534
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 11	Nov. 11	481
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Nov. 15	Nov. 15	347
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 8	Oct. 8	970
5612	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 14	Nov. 14	413
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Sept. 22	Sept. 22	801
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Nov. 22	Nov. 21	272
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Sept. 22	Sept. 23	1,045
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Oct. 20	Oct. 6	196
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Sept. 21	Sept. 21	834
5734	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Sept. 21	Sept. 21	890
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Sept. 21	Sept. 20	522
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 25	Oct. 27	503
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 20	Sept. 20	787
5893	26. ADAMS, W. M., Electricity, Generation; Motive Power	Nov. 25	Nov. 25	274
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Oct. 21	Oct. 22	454
4628	28. BENSON, A. R., Internal-Combustion Engines	Sept. 20	Sept. 20	585
5052	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Nov. 7	Nov. 16	249
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 20	Oct. 21	562
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Sept. 21	Sept. 21	1,037
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 4	Nov. 4	394
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Sept. 28	Oct 4	757
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Sept. 20	Sept. 20	930
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Oct. 5	Oct. 6	692
7624	36. McFAYDEN, A. D., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Sept. 1	Sept. 2	1,202
5896B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 20	Oct. 25	403
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Sept. 21	Sept. 21	742
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Oct. 5	Oct. 13	663
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Oct 2	Oct. 2	941
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Oct. 2	Oct. 5	425
5882	42. CUTTING, H. O., Electric Signaling	Sept. 21	Sept. 18	843
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Sept. 21	Sept. 21	672
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Sept. 20	Sept. 20	761
7007	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Sept. 13	Aug. 21	405
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Oct. 31	Oct. 31	343
7600	47. BARKER, H., Clutches; Brakes; Motors	Sept. 25	Sept. 23	988
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Sept. 27	Sept. 28	618
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Sept. 20	Sept. 22	671
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Sept. 22	Sept. 22	963
5628	51. BACKUS, C. D., Radiant Energy	Oct. 25	Oct. 25	706
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Oct. 24	Nov. 8	446
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Nov. 6	Nov. 6	410
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Sept. 20	Sept. 20	806
6887	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	Sept. 15	Sept. 15	794
	55. BOWEN, S. T.—Designs	Dec. 22	Dec. 21	383
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Sept. 20	Sept. 21	733
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 21	Oct. 17	300
5605	58. DOWELL, E. F., Abrading	Nov. 23	Nov. 23	249
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Oct. 2	Oct. 2	621
5896	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 20	Sept. 20	823
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus.	Sept. 28	Sept. 30	415
3876	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Sept. 26	Sept. 28	1,141
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Sept. 26	Oct. 4	724
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Oct. 21	Oct. 20	873
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Sept. 21	Sept. 20	804
2600B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—Trade-Marks	Dec. 20	Jan. 5	1,003
	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—Labels and Prints	Dec. 20	Jan. 5	144

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE EMANUELI

No. 3,119. Decided December 4, 1933

[67 F.(2d) 445]

1. PATENTABILITY—APPEAL—WHAT MAY BE CONSIDERED.
Where the Board of Appeals, in its decision, lists certain references cited by the Examiner but discusses in its decision only some of those references *Held* that all of the references are before the court for consideration.

2. SAME—MEANS FOR MAINTAINING OIL PRESSURE IN HIGH TENSION ELECTRIC CABLES.
Claims for improvement in means for maintaining oil pressure in high tension electric cables *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Harrison F. Lyman for Emanueli.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GRAHAM, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office, affirming the decision of the Examiner in the rejection of claims 12, 13, 14, and 17 of appellant's application for a patent on an improvement in means for maintaining oil pressure in high tension electric cables.

In substance, the invention disclosed by appellant's specification and drawings consists of a combination of an electric cable, having ducts or means for the flow of oil longitudinally thereof, which ducts or means are filled with oil, the air having been previously exhausted therefrom. In order to allow for expansion and contraction of the oil in the cable, due to changes in temperature, the applicant provides a feeding reservoir containing a large quantity of oil, which oil is connected with the oil in the interior of the cable. This feeding reservoir is composed of elements, or cells, exposed to atmospheric pressure, and diaphragms on both sides of such cells, these diaphragms being corrugated so as to increase the amount which they can bend or yield, in response to changes of oil pressure. The diaphragms in each cell are spaced parallel to, and some distance from, each other, by a rigid metal holder. Each of these cells is hermetically sealed and exhausted of air before being filled with oil. As many cells as are required may be combined in this feeding reservoir. The oil in these cells, when expansion in the cable occurs, will push the diaphragms outwardly, and when expansion is reduced, atmospheric pressure will cause the diaphragms to resume their original position, or, perhaps, be contracted. The inventor proposes to have no air in his cable or in contact with the oil in these feeding reservoirs at any point.

In addition, the inventor provides for a number of so-called pressure reservoirs, which are to be placed along the line of the cable wherever needed, and which are of a different type. In these, the oil is contained within an hermetically sealed, rigid walled receptacle. In the interior of this receptacle, and immersed in the oil, are a number of thin, flat cells, containing a gas or air, and each composed of a rigid rim and a corrugated membrane on each side of the cell. The oil in these pressure reservoirs is also connected with the oil in the cable. When expansion of the oil in the cable occurs, it will be forced out of the cable and into these pressure reservoirs, where it compresses the sides of the enclosed air cells. As the expanding force on the oil in the cable is reduced, the oil is again forced out of the pressure reservoir into the cable by the expansion of the air cells to their original shape.

The inventor has furnished several affidavits, by which it is shown that by this system, which is most generally applied to underground cables, the voltage which may be safely carried by such a cable has been increased from 66,000 volts to approximately 132,000 volts. The affidavits also tend to show many advantages in the transmission of high tension electrical current.

A considerable number of claims relying upon the specific structure of appellant's combination have been allowed by the Patent Office. Claims 12 and 17 are thought to be typical of the rejected claims:

12. In a high tension electric cable installation, the combination of a sheathed cable having a passage therein containing insulating fluid which is freed of air, variable capacity pressure reservoirs whch are freed of air and sealed against the admission thereof, means connecting the reservoirs to the passage at spaced intervals along its length, said reservoirs and connecting means containing insulating fluid under pressures which vary with change of temperature of the cable, a variable capacity feeding reservoir which is freed of air and sealed against the admission thereof, and which contains insulating fluid and maintains it under a substantially constant pressure, and means connecting the feeding reservoir with the passage in the cable whereby it receives the fluid from the passage and the pressure reservoirs as the pressure therein rises due to heating of the cable, and feeds it back thereto as the cable cools.

17. In a high tension cable system, the combination of a length of sheathed cable having a longitudinal passage therein from which air is excluded and which is filled with air freed insulating fluid under pressure greater than that of the atmosphere and through which the flow of fluid is slow, a plurality of pressure reservoirs, each comprising an hermetically sealed casing which contains fluid under pressure substantially the same as that in the cable passage and a plurality of sealed cells, the exterior walls of which are subjected to the pressure of the fluid in the casing, conduits of low resistance to flow of fluid connecting the casings in parallel spaced relation to the cable passage, a feeding reservoir of relatively large capacity which contains fluid and has expansible walls, the exterior surfaces of which are exposed to substantially atmospheric pressure, and a conduit connecting the feeding reservoir and cable passage, whereby the fluid, on expanding, first flows into each of the pressure reservoirs, gradually building up the pressure therein, all of said reservoirs subsequently discharging fluid in parallel back into the cable passage from which it flows into the feeding reservoir.

The Examiner rejected claims 12, 13, 14, and 17, "solely on the ground of old combination." In doing so, he made reference to the following patents: British Patent 114,414, acc. October 10, 1918, 173—264; British Patent 29,756, December 24, 1913, 173—264; Ober et al., 1,775,776, September 16, 1930, 173—268; Bingay, 1,562,428, November 17, 1925, 220—85; Emanueli, 1,662,107, March 13, 1928, 173—266.

He held that "the fundamental system is shown in Watson," and that the improvements which appellant shows over Watson are those which have already been shown and embodied in Pirelli, Bingay, and Ober. The British patents referred to above are, respectively, Pirelli and Watson.

The Board of Appeals, as has been said, affirmed the Examiner as to his rejection of said four claims, and again listed the references cited by the Examiner. However, in its discussion of the claims, the Board discussed the reference Watson only, and expressed the opinion that, inasmuch as the rejected claims seem to have been based upon a structure in which

there need be no difference in structure between the feeding and pressure reservoirs,

appellant's said claims were anticipated by Watson. The board was of the opinion that a multiplicity of Watson's feeding reservoirs along the cable and at the end thereof were believed to be the equivalents of appellant's feeding and pressure reservoirs.

[1] We have held that where the Board of Appeals has affirmed the decision of the Examiner in rejecting the claims of an applicant on certain grounds, and upon certain-named references, which references are also cited by said Board in its decision, the affirmance should be held to have the legal effect of a rejection upon the grounds and reference cited by the Examiner, and not expressly reversed by the Board. *In re Wagenhorst*, 20 C. C. P. A. (Patents) 991, 64 F.(2d) 780, 433 O. G. 223.

We shall therefore consider that the various references cited, and their applicability, are before this court at this time.

[2] It will be observed from a reading of said claims 12, 13, and 14, that, while these claims include two types of reservoirs, namely, feeding and pressure, there is nothing in the claims that indicate that these reservoirs shall differ in method of construction. Take, for instance, claim 12. This claim mentions

variable capacity pressure reservoirs which are freed of air and sealed against the admission thereof,

spaced along the cable, and a "variable capacity feeding reservoir which is freed of air" and sealed, and which contains insulating fluid. It thus appears, from this claim, that any system which contains a number of pressure or feeding reservoirs, whichever they may be called, and which reservoirs contain oil or insulating fluid and are freed of air, will satisfy this claim. In other words, the claim is broad and will include any system which uses reservoirs containing oil under pressure, and freed of contact with air. The element of air-containing cells is entirely omitted from these claims.

The Board of Appeals was of opinion, as has been said, that the Watson reference disclosed reservoirs upon which these claims will read. Watson shows an electric cable with a passage for insulating fluid therein, and which insulating fluid is in communication with a cylindrical pressure reservoir (*h*), in which said reservoir insulating fluid is contained, and on top of which fluid a piston is placed, which is caused to press upon said insulating fluid in said reservoir by means of a weighted arm. Watson also shows other reservoirs for taking care of expansion and contraction, these consisting of air chambers containing air under pressure, which chambers may be placed along the line of the cable, as needed.

The appellant insists that one of the great advantages of his invention is the fact that air is not permitted to come in contact with the oil in the cable, and has demonstrated, we think, by affidavits he has offered, that the presence of air in the cable, even in small quantities, is highly injurious. Appellant contends that in Watson's system the air pressure devices are obviously not anticipations of his pressure reservoirs, because in them air is in contact with the oil. As to the Watson pressure reservoirs, in which a piston and weighted arm are used, he contends that oil will seep upwardly around the edge of the piston and that the piston will ultimately reach the bottom of the cylinder, rendering the device inoperative.

It is obvious that Watson long antedated the appellant in claiming the patentability of a combination of an oil containing cable, connected with a series of oil feeding and pressure reservoirs. It only remains to be seen whether the appellant has made such improvements thereon as to amount to a patentable combination.

Even if the Watson pressure reservoirs (*a*) are not anticipatory of appellant's reservoirs, claimed in said rejected claims, because of contact with the air and the other defects mentioned, we are of opinion that a pressure reservoir, such as appellant claims in said rejected claims, namely, an expansible reservoir filled with an insulating fluid and freed of air, is fully shown by the other references cited.

Bingay shows a transformer tank freed of air and full of insulating fluid, which, by disclosed means, is capable of expansion and contraction to accommodate changes in temperature in the transformer tank.

The reference Ober is particularly applicable. Ober shows an oil filled pressure tank of the bellows or expansive type, freed of air and sealed against the admission thereof, and which expands or contracts to accommodate the expansion of the insulating fluid inside the joint of a high voltage single conductor cable.

These references disclose that the feeding reservoirs of the appellant are not new in the art. The combination which the appellant has made of his two types of reservoirs, one of which contains expansible air cells, has been claimed by him, and claims have been allowed him by the Patent Office therefor. These are based upon the specific structure disclosed by him. However, when his claims are so broad as to include a series of oil-filled, air freed reservoirs, without any further limitation therein, they invade a field already shown by the art.

Claim 17 has been rejected by the Board of Appeals for the reason, as it is said,

"Claim 17 is directed to the same structure but fails to state that the walls of the cell are flexible. This claim, therefore, appears to be merely an incomplete statement of the structure of claims 15 and 16 and is not regarded as patentably different therefrom, besides being incomplete as to an essential feature."

A reading of this claim discloses that, while the applicant is claiming pressure reservoirs which contain a plurality of sealed cells, the exterior walls of which are subjected to the pressure of the fluid in the casing, there is no statement of what is contained within these cells, that the sealed cells are compressible, or the material or structure of the same. Hence, as the Board of Appeals has said, the statement of the claim is incomplete. Any sort of a sealed cell contained in the pressure reservoir would satisfy this language.

The decision of the Board of Appeals must, therefore, be, and is, affirmed.

Affirmed.

Court of Appeals of the District of Columbia

PITMAN AND ELLIS-FOSTER COMPANY *v.* COE, COMMISSIONER OF PATENTS

No. 5,890. Decided December 11, 1933

1. PATENTS—REFUSAL—DECISION OF THE BOARD OF APPEALS—HOW REVIEWED.

It has long been provided by statute that every applicant for a patent whose application has been finally rejected in the Patent Office may have either one of two alternative remedies. First, he may appeal under section 4911, Revised Statutes, to the United States Court of Customs and Patent Appeals (formerly to the Court of Appeals of the District of Columbia) or, second, he may file the bill in equity permitted by section 4915, Revised Statutes, supra. He cannot prosecute both remedies. Although these two methods of procedure are alternatives, they are nevertheless analogous and are designed to secure essentially the same legal remedy.

2. SAME—SAME—SAME—QUESTION OF DIVISION—REVIEWABLE UNDER SECTION 4915, REVISED STATUTES.

It has been definitely decided, and it does not seem to be disputed in this case, that an appeal to the appellate court may be taken from a refusal of a patent which is based upon an order of division in the Patent Office. *Steinmetz* v. *Allen*, 192 U. S. 543, 556; *In re Frasch*, 27 App. D. C. 25, 26; *In re Wellman*, 48 F.(2d) 926. We can see no reason for holding that such a remedy is confined to a review by the appellate court of the decisions of the Patent Office, and is denied in proceedings brought by the applicant for review in a court of equity. It is true that the remedies are diverse; nevertheless the substantive rights of the applicants, which are the basis alike of the appeal and bill in equity, are identical. It follows that a refusal to grant a patent based upon a controversy arising from an order of division is reviewable by either proceeding.

APPEAL from the Supreme Court of the District of Columbia.

Mr. Sol Shappirio for appellants.

Mr. T. A. Hostetler for appellee.

Before MARTIN, Chief Justice, and ROBB and GRONER, Associate Justices

MARTIN, *C. J.:*

This appeal is taken from a decision of the Supreme Court of the District of Columbia dismissing appellants' bill of complaint upon motion filed by appellee.

The controversy originated in an application for a patent filed by one of the appellants in the Patent Office, which was refused by the Commissioner of Patents.

The case was brought into the lower court by bill in equity filed by the applicants under the provisions of section 4915, Revised Statutes, which reads in part as follows:

Whenever a patent on application is refused by the Commissioner of Patents, the applicant, unless appeal has been taken from the decision of the Board of Appeals to the United States Court of Customs and Patent Appeals, and such appeal is pending or has been decided, in which case no action may be brought under this section, may have remedy by bill in equity, if filed within six months after such refusal; and the court having cognizance thereof, on notice to adverse parties and other due proceedings had, may adjudge that such applicant is entitled according to law, to receive a patent for his invention, as specified in his claim, or for any part thereof, as the facts in the case may appear. And such adjudication, if it be in favor of the right of the applicant, shall authorize the Commissioner to issue such patent on the applicant filing in the Patent Office a copy of the adjudication and otherwise complying with the requirements of law. * * *

It is alleged in the bill filed in the lower court in the present case that on February 23, 1924, Arthur L. Pitman, one of the plaintiffs, was the inventor of certain new and useful improvements in treating nitrocellulose and coating compositions therefrom, and that on that day he filed an application in the Patent Office for Letters Patent for the invention; that the application fully complied with the statutes and rules of practice governing such cases; that the applicant duly assigned and transferred to the Ellis-Foster Company the entire right to the application and the invention covered thereby; that the application contained claims 1 and 2, and that these were formally allowed by the Examiner; that the applicant, however, failed to pay the final fee, and the application became forfeited; that the applicant then renewed the application and by amendment inserted additional claims numbered 5 to 11; that the Examiner thereupon required division between claims 1, 2, 5, and 6, and claims 7, 8, 9, 10, and 11, and required an election by applicant of one of these two groups of claims; that thereupon on December 2, 1930, the applicant duly made an election of claims 7 to 11 for prosecution in the application; that the Examiner finally and for a second time rejected claims 7 to 11 as being directed to a different invention from the invention or discovery for which the patent was ordered to issue in the original prosecution of the case; that theretofore on June 2, 1930, the plaintiffs duly appealed to the Board of Appeals, and on February 1, 1932, the Board rendered a judgment affirming the decision of the Examiner requiring division of the claims, and also affirming the decision of the Examiner requiring cancellation of claims 7 to 11, as directed to independent and divisible subject matter from the claims prosecuted in the original case, and a patent for the invention as specified in those claims was thereupon refused to the applicant, and the Commissioner of Patents has since refused and still refuses to grant Letters Patent for the invention specified in claims 7 to 11 of the application. The plaintiffs claimed that the Examiner, the Board of Appeals, and the Commissioner of Patents, acted erroneously and contrary to law and

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the evidence in rejecting the aforesaid claims of their application, and they prayed that the court adjudge them entitled to receive a patent for the invention as specified in such claims, and that the Commissioner of Patents be directed to allow the claims and for other and further relief in the premises.

Thereupon the defendant, the Commissioner of Patents, filed a motion in the lower court to dismiss the plaintiffs' bill on the ground that the court had no jurisdiction to entertain the suit, for the reason that the controversy involved is one of division between claims 1, 2, 5, and 6, as being for one invention, and claims 7 to 11 as being for a separate invention; that no action on the merits of claims 5 to 11 had been taken by any tribunal of the Patent Office on the question of patentability; that the question raised by the record therefore was merely interlocutory, since no decision on the merits of claims 5 to 11 had been given which could be reviewed by the court, and no decree that might be issued in the case could properly authorize the Commissioner to issue a patent without further proceedings in the Patent Office.

The lower court sustained the defendant's motion to dismiss, and the present appeal was then taken.

We think this ruling was erroneous.

The allegations of the bill bring the case literally within the provisions of section 4915, Revised Statutes, *supra*. In this case a patent on application was refused by the Commissioner of Patents, and the applicants as plaintiffs sought a review of such ruling by a bill in equity, filed within six months after such refusal, and the court was authorized to adjudge that the applicants were entitled according to law to receive a patent for the invention as specified in their claim, or for any part thereof, as the facts in the case may appear. The provisions of the bill are general and do not restrict the review by the courts to refusals based upon any particular or specific ground. A refusal of an application because of such grounds as appear in the present case comes within the terms of the statute and may be reviewed.

[1] It has long been provided by statute that every applicant for a patent whose application has been finally rejected in the Patent Office may have either one of two alternative remedies. First, he may appeal under section 4911, Revised Statutes, to the United States Court of Customs and Patent Appeals (formerly to the Court of Appeals of the District of Columbia) or, second, he may file the bill in equity permitted by section 4915, Revised Statutes, supra. He cannot prosecute both remedies. These two remedies lie to different courts. They differ in procedure, the one is an appeal upon the record of the Patent Office, and the other is an original suit in a court of equity. The latter proceeding calls for a trial *de novo* with all the customary power of an equity court to hear the evidence fully and to make its own findings. Although these two methods of procedure are alternatives, they are nevertheless analogous and are designed to secure essentially the same legal remedy.

[2] It has been definitely decided, and it does not seem to be disputed in this case, that an appeal to the appellate court may be taken from a refusal of a patent which is based upon an order of division in the Patent Office. *Steinmetz* v. *Allen*, 192 U. S. 543, 556, 109 O. G. 549; *In re Frasch*, 27 App. D. C., 25, 26, 122 O. G. 1048; *In re Wellman*, 18 C. C. P. A. 1214 48 F.(2d) 926, 406 O. G. 804. We can see no reason for holding that such a remedy is confined to a review by the appellate court of the decisions of the Patent Office, and is denied in proceedings brought by the applicant for review in a court of equity. It is true that the remedies are diverse; nevertheless the substantive rights of the applicants, which are the basis alike of the appeal and bill in equity, are identical. There is no reason to believe that Congress intended that any remedy which might be obtained by appeal should be more extensive or complete than that allowed by bill in equity. It follows that a refusal to grant a patent based upon a controversy arising from an order of division is reviewable by either proceeding. The difference between the two is a difference of procedure rather than a difference of interest. In this view of the case we think that the lower court possessed jurisdiction to hear and decide the question notwithstanding that the refusal of the patent was based upon an order of division of claims made in the Patent Office.

The decree of the lower court is accordingly reversed, and the cause is remanded for further proceedings not inconsistent herewith.

Reversed.

Court of Appeals of the District of Columbia

WIGTON v. COE, COMMISSIONER OF PATENTS

No. 5,995. Decided December 4, 1933

1. MANDAMUS—ACT OF MARCH 2, 1927.

"It is conceded that the actions of the Commissioner forming the basis of this suit 'were doubtless within his supervisory authority before 1927.' The contention is that the act of March 2, 1927 (ch. 273, 44 Stat. 1335), inferentially deprived the Commissioner of such authority. That act changed procedure in the Patent Office, but contained no provision depriving the Commissioner of the supervisory authority theretofore exercised by him. When, therefore, that authority was invoked the Commissioner was called upon to decide whether the act of 1927 deprived him of his supervisory authority. As was said in *Riverside Oil Company* v. *Hitchcock*, 190 U. S. 316, 324, 'whether he decided right or wrong, is not the question. Having jurisdiction to decide at all, he had necessarily jurisdiction, and it was his duty to decide as he thought the law was, and the courts have no power whatever under those circumstances to review his determination by mandamus or injunction.' "

2. SAME—NOT A SUBSTITUTE FOR WRIT OF ERROR.

"The writ of mandamus can never be used as a substitute for a writ of error."

APPEAL from the Supreme Court of the District of Columbia. Affirmed.

Mr. H. H. Snelling for appellant.

Mr. T. A. Hostetler for appellee.

Before MARTIN, Chief Justice, and ROBB, HITZ, and GRONER, Associate Justices

ROBB, *A. J.:*

Appeal from a judgment in the Supreme Court of the District in a mandamus proceeding (entered after hearing upon the petition, rule to show cause, answer, "and all other proceedings" therein) discharging the rule and dismissing the petition.

An interference was regularly declared in the Patent Office between two Wigton patents issued December 2, 1930, and an application of Derby and Cunningham. On May 21, 1931, the Examiner of Interferences in due course gave notice that he would award priority to Derby and Cunningham because of the earlier filing date of a Derby and Cunningham application, unless Wigton should show good cause within 45 days why such action should not be taken. Wigton filed no response to the rule to show cause within the time specified. Derby and Cunningham moved under Patent Office rule 109 to add additional counts, which motion was heard and denied by the Examiner of Interferences. An appeal taken to the Board of Appeals was argued on January 19, 1932. On January 23, 1932, Wigton moved to remand the case to the Examiner of Interferences to consider a motion to dissolve. This motion was denied. The Board of Appeals affirmed the decision of the Examiner of Interferences denying the Derby and Cunningham motions to add additional claims. On March 15, 1932, Wigton filed a paper entitled "Response to order to show cause" issued against him on May 21, 1931. Owing to the delay, the Examiner of Interferences refused to set the motion for hearing, and rendered decision against Wigton. Thereupon Wigton moved for reconsideration, and, in response to the motion, the Examiner of Interferences vacated the decision and set the motion for hearing. Derby and Cunningham in an appeal to the Commissioner invoked his supervisory authority.

The Commissioner exercised jurisdiction and reversed the decision of the Examiner of Interferences. On May 9, 1932, the Examiner of Interferences reinstated the decision against Wigton. Thereupon, on May 16, 1932, Wigton petitioned the Commissioner to instruct the Examiner of Interferences to comply with rule 122—

as now interpreted, and decide whether or not "in the opinion of the Examiner of Interferences" the two affidavits * * * show a satisfactory reason for the delay in bringing the motion to shift the burden of proof.

On May 21, 1932, the Commissioner denied the formal request for reference to the Examiner of Interferences.

Thereupon Wigton filed in the court below his petition for mandamus seeking an order directed to the Commissioner of Patents to compel him—

to order the cancelation of so much of the decision of the Acting Commissioner (Kinnan) of February 13, 1932, as passed upon the question of the sufficiency of the affidavit explaining the delay; to order the cancelation of the decisions of the First Assistant Commissioner (Kinnan) of April 19, 1932, and May 3, 1932; to set for hearing by the Examiner of Interferences the motion to shift the burden of proof, filed March 15, 1932; and to instruct Hon. I. P. Disney, Examiner of Interferences, to decide whether or not in the opinion of the latter the two affidavits executed by Henry H. Snelling on January 23, 1932, and April 23, 1932, would form satisfactory reason for the delay in presenting the motion to shift, had there been no decision by the Acting Commissioner on this subject.

It is conceded that the actions of the Commissioner forming the basis of this suit "were doubtless within his supervisory authority before 1927." The contention is that the act of March 2, 1927 (ch. 273, 44 Stat. 1335), inferentially deprived the Commissioner of such authority. That act changed procedure in the Patent Office, but contained no provision depriving the Commissioner of the supervisory authority theretofore exercised by him. When, therefore, that authority was invoked the Commissioner was called upon to decide whether the act of 1927 deprived him of his supervisory authority. As was said in *Riverside Oil Company* v. *Hitchcock*, 190 U. S. 316, 324—

whether he decided right or wrong, is not the question. Having jurisdiction to decide at all, he had necessarily jurisdiction, and it was his duty to decide as he thought the law was, and the courts have no power whatever under those circumstances to review his determination by mandamus or injunction.

The writ of mandamus can never be used as a substitute for a writ of error. *Riverside Oil Company* v. *Hitchcock*, 190 U. S. 316; *Interstate Commerce Commission* v. *U. S. ex rel. Waste Merchants Asso.*, 260 U. S. 32.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,242,872, C. Saunders, Self-serving store, D. C., W. D. N. Y., Doc. 1503–I, *Piggly Wiggly Corp.* v. *Lonlaw Groceterias, Inc.* Dismissed Nov. 14, 1933.

1,243,875 J. R. Price, Method and apparatus for starting internal combustion engines, filed Dec. 4, 1933, D. C. Md., Doc. E 2232, *J. E. Sheperd* v. *Ashley Chevrolet Sales, Inc.*

1,251,030, H. B. Hoffman, Combination garment, filed Nov. 23, 1933, D. C., S. D. N. Y., Doc. E 77/11, *H. B. Hoffman* v. *Triangle Underwear Corp.* Doc. E 76/261, *H. B. Hoffman* v. *Robin Redbreast Hosiery Co., Inc.* Consent decree for plaintiff (notice Nov. 28, 1933).

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means; 1,475,980, same, Lubricating apparatus, filed Nov. 24, 1933, D. C., S. D. N. Y., Doc. E 77/14, *Alemite Corp.* v. *A. T. Brandmeier et al.*

1,307,734. (See 1,307,733.)

1,359,124, A. M. Springer, Ironing board, D. C., N. D. Ind. (South Bend), Doc. 292, *Rid-Jid Products Corp. et al.* v. *Peru Basket Co. et al.* Patent held valid and infringed Nov. 28, 1933.

1,379,855, J. Donner, Cream depilatory, filed Nov. 24, 1933, D. C., S. D. N. Y., Doc. E 77/13, *J. Donner* v. *W. S. Carter* (*Carter Co.*)

1,431,017, J. V. Martin, Aeroplane alighting device, filed Dec. 5, 1933, U. S. C. C., Doc. 42551, *J. V. Martin* v. *The United States.*

1,470,524, H. B. Burt, Process of making frozen confections; 1,718,997, same, Frozen confection; 1,505,592, F. W. Epperson, same, D. C., N. D. Calif., N. Div., Doc. 1160–K, *National Popsicle Corp. et al.* v. *G. W. South.* Dismissed without prejudice Nov. 29, 1933.

1,475,980. (See 1,307,733.) 1,505,592. (See 1,470,524.)

1,673,287. (See 1 696,263.)

1,673,287, L. L. Jones, Electron discharge tube amplifier system, filed Nov. 27, 1933, D. C. Minn., 4th Div., Doc. E 2742, *Art Metal Works, Inc.*, v. *The Dayton Co.*

1,673 727, L. V. Aronson, Cigar lighter, appeal filed Nov. 29, 1933, C. C. A., 2d Cir., Doc.——. *Art Metal Works, Inc.*, v. *Abraham & Straus, Inc.*

1,696,263, C. E. Bonine, Radio apparatus; 1 673,287, L. L. Jones, Electron discharge tube amplifier system; 1,713,130, same, Method of and means for controlling energy feed back in electron discharge devices; Re. 17,915 (of 1,713,132), same, Radio frequency amplifying system; 1,732,937, same, Transformer and coil system; 1,770,525,

same, Radio receiving apparatus; 1,779,881. same, Amplifier; 1,788,197, same, Radio frequency circuit; 1,791,030, same, Radio receiving system, appeal filed Nov. 29, 1933. C. C. A., 2d Cir., Doc. ——, *Technidyne Corp. et al.* v. *McPhilben-Keator, Inc.*

1,704,667, C. F. Osgood, Mining machine; 1,785,957. M. P. Holmes, same, filed Nov. 27, 1933, D. C., S. D. Ohio (Columbus), Doc. 1067, *Sullivan Machinery Co.* v. *J. H. Kelly* (*Kelly Foundry & Machine Works*).

1,713,130. (See 1,696,263.) 1,713,132. (See 1,696,263.)

1,718,997. (See 1,470,524.)

1,730,879, A. K. Epstein, Egg product and process for producing same, D. C., N. D. Ohio, E. Div., Doc. 4587, *The Emulsol Corp.* v. *Standard Brands, Inc., et al.* Dismissed Nov. 28, 1933.

1,732,937. (See 1,696,263.)

1,765,290. N. Stefanide, Refrigerator attachment, filed Nov. 29, 1933, D. C., E. D. N. Y., Doc. E 7128, *N. Stefanide et al.* v. *Kelvinator Sales Corp.*

1,770,525. (See 1,696,263.)

1,772,911. R. E. Pospisil, Sugar process, filed Nov. 25, 1933, D. C., N. D. Ohio, W. Div., Doc. E 1388, *Kurek* v. *The Ohio Sugar Co. et al.*

1,779,881. (See 1,696,263.) 1,785,957. (See 1,704,667.)

1,788,197. (See 1,696,263.) 1,791,030. (See 1,696,263.)

1,831,925, A. F. Niggle, jr., Shoe heel, D. C., W. D. Mich., S. Div., Doc. E 2626. *A. F. Niggle, jr.*, v. *B. Krause Co. et al.* Dismissed Dec. 1, 1933.

1,854,813, W. E. Swern, Drop side telescopic drum, filed Dec. 4, 1933, D. C., N. D. Ohio, E. Div., Doc. 4826. *P. A. Frank et al.* v. *The Akron Standard Mold Co.*

1,874,111, R. D. Mershon, Electrolytic condenser, filed Nov. 28, 1933, D. C., S. D. N. Y., Doc. E 77/22, *R. D. Mershon* v. *Condenser Corp. of America.*

1,927,611, G. L. Moore, Piston, filed Nov. 27, 1933, D. C., E. D. Mich. (Detroit), Doc. 6170, *The Cleveland Trust Co.* v. *Chrysler Corp.*

1,932,304, M. Chernow, Monogram, filed Nov. 27, 1933, D. C., S. D. N. Y., Doc. E 77/17, *M. Chernow et al.* v. *L. K. Stupell* (*Beaucraft Products Co.*). Doc. E 77/18, *M. Chernow et al.* v. *Cohn & Rosenberger, Inc.*

Re. 16,736, H. O. McMillan, Clamp for concrete column forms, D. C., S. D. Ohio, W. Div., Doc. E 709, *H. O. McMillan* (*M. & M. Wire Clamp Co.*) v. *The H. W. Roos Co.* Claims 13 to 18, inclusive, held invalid, bill dismissed Dec. 2, 1933.

Re. 17,885, J. H. Janowitch, Shirt collar stiffener, D. C., S. D. N. Y., Doc. E 60/1, *Lakewood's Patents Corp.* v. *W. Nemeroff.* Dismissed without prejudice (notice Nov. 23, 1933).

Re. 17,915. (See 1,696,263.)

Re. 18,074, H. Weinrub, Control for knitting machines, filed Nov. 28, 1933, D. C., S. D. N. Y., Doc. E 77/19, *I. Weinrub* v. *Gordon Trimming Co. Inc.* Doc. E 77/20, *I. Weinrub* v. *Fashin Novelty Corp.*

Des. 84,886, A. Fazekas, House number plate, filed Nov. 24, 1933, D. C., N. D. Calif., (San Francisco), Doc. E 3654-L *A. Fazekas* v. *E. L. Reed et al.*

Disclaimers

1,331,884.—*Gideon Sundback*, Meadville, Pa. SHEET-METAL FORMING AND SETTING MACHINE. Patent dated February 24, 1920. Disclaimer filed January 17, 1934, by the assignee, *Hookless Fastener Company.*

Hereby enters this disclaimer to that part of said specification which is in the following words, to wit:

"This invention relates to a machine for forming and setting metal punchings, and has particular reference to a special form of power press with automatic blank feeding means whereby punchings are formed from a strip blank and set on a carrying element." (p. 1, lines 10 to 16.)

"The present invention is not limited in its broad aspects to the production of the particular fastener members referred to, nor to the setting of such members on tapes, but is of general application wherever it is desired to automatically and cheaply form large numbers of like parts, and to set them on a suitable carrier element." (p. 1, lines 36 to 43.)

And your petitioner further disclaims from the scope of each of claims 1 to 33, inclusive, 35, 36, 37 and 39 to 44 inclusive, any combination except one for forming and affixing to a tape carrier, slide fastener members such as are described in the sentence beginning at line 21 of page 1 of the specification and reading as follows:

"The fastener members consist of separated jaws and an interlocking member having a recess on one side and a head on the other, these respective recesses and heads being arranged on a pair of tapes so as to alternately interlock."

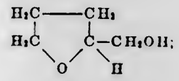
1,822,913.—*James J. Vanhorn*, Pittsburgh, Pa. REMOTE CONTROL APPARATUS. Patent dated September 15, 1931. Disclaimer filed January 5, 1934, by the assignee, *The Union Switch & Signal Company.*

Hereby disclaims the subject matter of claim 7.

1,883,374.—*Joseph Bennett Hill*, Wynnewood, Pa. TREATMENT OF OILS. Patent dated October 18, 1932. Disclaimer filed January 17, 1934, by the assignee, *The Atlantic Refining Company.*

Hereby enters this disclaimer, to wit:

Petitioner disclaims from the scope of claims 1 to 7 inclusive of the aforesaid patent, processes which employ furfuryl alcohols, the furane ring of which is wholly or partially saturated. e. g., and not by way of limitation, tetrahydrofurfuryl alcohol



but without disclaiming furfuryl alcohols in which the furane ring,



remains intact, or in other words, in which the two double bonds between carbons of the ring remain unbroken.

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 6, 1934

[VOL. 439. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 321,832. THORER & COMPANY, Leipzig, Germany. Filed Dec. 5, 1931.



For Dyed Skins.
Claims use since Jan. 1, 1930.

Ser. No. 341,510. ZELLSTOFFFABRIK WALDHOF, Mannheim-Waldhof, Germany. Filed Sept. 11, 1933.



For Cellulose Pulp, Chemical Pulp, Mechanical Pulp, Sulphite and Sulphate Pulp for Various Uses in the Industrial Art.
Claims use since Dec. 8, 1916.

Ser. No. 344,270. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 29, 1933.



For Wood Pulp.
Claims use since Jan. 1, 1897.

CLASS 2

Receptacles

Ser. No. 344,990. SERV-O-DRAFT CORPORATION, Detroit, Mich. Filed Dec. 15, 1933.

SERV-O-DRAFT

No claim is made for the word "Draft" apart from the mark as shown.
For Base Metal Beverage Dispensing Flasks and Coolers Therefor.
Claims use since July 19, 1933.

Ser. No. 345,220. STANDARD PULP PRODUCTS CO., INC., New York, N. Y. Filed Dec. 21, 1933.

PUL-PEX

For Plates and Dishes Made from Paper Pulp or Fibre.
Claims use since October, 1931.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 332,389. THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed Nov. 21, 1932.

WHIZ

For Powdered Emery; Powdered Abrasives, a Chemical Composition for Keeping Windows Clear; Metal Polish, a Composition for Grinding and Polishing Valves; Valve-Grinding Compounds, Cleaning Compounds for Polishing Metal, Oil Soap, Hard Olive Green Auto Soap, Aeroplane Washing Compound, Liquid Soap, Automobile Soap, Automobile-Top Dressing, and Soap for General Use.
Claims use since Sept. 1, 1905.

Ser. No. 342,807. HOLLYWOOD MARVEL PRODUCTS CO., Los Angeles, Calif. Filed Oct. 23, 1933.

LaCherté

For Shaving Soap and Turtle Oil Soap.
Claims use since July 18, 1928.

Ser. No. 343,240. AIR-WAY ELECTRIC APPLIANCE CORPORATION, Toledo, Ohio. Filed Nov. 4, 1933.

Air-Way

For Grinding Wheels and Polishing and Buffing Pads.
Claims use since Sept. 1, 1933, on grinding wheels, and since Jan. 1, 1919, on polishing and buffing pads.

Ser. No. 344,320. W. T. GRANT COMPANY, New York, N. Y. Filed Dec. 1, 1933.

EVERYDAY

For Soap.
Claims use since Sept. 15, 1930.

Ser. No. 344,715. ROBERT DE WANDRE, Paris, France. Filed Dec. 9, 1933.

"RAZVITE" (shave-quick)

No claim is made to the words "Shave-Quick" except in the association shown.
For Shaving Cream, Toilet Soap, and Shaving Soap.
Claims use since June 6, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 332,297. VICTOR HALPER, doing business as Remogland Chemical Company, New York, N. Y. Filed Nov. 19, 1932.

FORTO-TESTIN

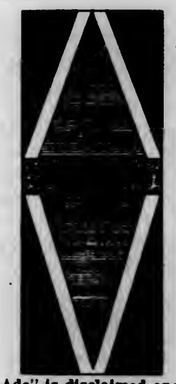
No claim is made to the word "Testin" per se apart from the mark shown in the drawing.
For General Glandular Tonics.
Claims use since April, 1932.

Ser. No. 332,419. SAMUEL A. PRICE, doing business as Sapfire Emergency Laboratories, Atlanta, Ga. Filed Nov. 23, 1932.



For Preparation for the Treatment of Burns, Ulcers, Cuts, Skin Eruptions, and Piles.
Claims use since Oct. 4, 1930.

Ser. No. 333,434. THE KNOX COMPANY, Kansas City, Mo. Filed Dec. 28, 1932.



The word "Skin-Ade" is disclaimed apart from the mark as shown on the drawing. The drawing is lined for blue and yellow.
For Medicated Cream Preparation for Sunburn, Chafing, After Shaving, and as a Hand and Foot Cream.
Claims use since Dec. 6, 1932.

Ser. No. 333,905. WILHELM PRIEM & COMPANY, G. M. B. H., Magdeburg, Germany. Filed Jan. 13, 1933.

Matoba

For Carbon Black Having a General Use in the Industrial Arts.
Claims use since Dec. 27, 1932.

Ser. No. 336,387. JEWEL TEA CO., INC., Barrington, Ill. Filed Apr. 3, 1933.



For Gloss Starch, Powdered Ammonia, and Laundry Tablets.
Claims use since July, 1924, on gloss starch and powdered ammonia and since September, 1928, on laundry tablets.

Ser. No. 340,116. M. D. FALCONER, Anaheim, Calif. Filed July 26, 1933.

LAXA MEAL

No claim is made to the word "Meal" apart from the mark as shown.
For Preparation Designed to Produce a Laxative Effect Comprising Carob Meal, Chondrus, Agar-Agar, Psylla, and Karaya.
Claims use since July 3, 1933.

Ser. No. 341,292. KABUSHIKI-KAISHA TAKEDA CHOBEI SHOTEN, Osaka, Japan. Filed Sept. 2, 1933.

CHINERON
ヒネロン

The Japanese characters are the phonetic equivalent of the coined word "Chineron" and have no other significance.
For Preparation for the Treatment of Pneumonia.
Claims use since October, 1921.

Ser. No. 342,796. THE FORD PHARMACAL COMPANY, Cleveland, Ohio. Filed Oct. 23, 1933.

CAL-O-MENT

For Medicinal Preparation, Being a Local Sedative in Ointment Form, for the Treatment of Eczema, Acne, Ringworm, Scabies, Eruptions of Poison Ivy or Oak, Bites and Stings of Insects, Pimples, and the Itching and Burning of Other Abrasions or Irritations of the Skin, by External Application Upon the Affected Area.
Claims use since Apr. 30, 1931.

Ser. No. 342,797. THE FORD PHARMACAL COMPANY, Cleveland, Ohio. Filed Oct. 23, 1933.

ALBAGESIC

For Medicinal Preparation, Being a Rubifacient in Ointment Form, for the Treatment of Chest Colds and Muscular Pains, Rheumatic and Arthritic Pains, Headaches, and Congestion of the Bones and Joints, by External Application upon the Affected Area.
Claims use since Apr. 30, 1931.

Ser. No. 343,790. WM. P. POYTHRESS & CO., INC., Richmond, Va. Filed Nov. 17, 1933.

Ricinicol
RICINOLEATED PETROLATUM

The words "Ricinoleated Petrolatum" are disclaimed apart from the other features of the mark.
For Intestinal Detoxicant.
Claims use since July, 1933.

Ser. No. 343,792. WM. P. POYTHRESS & CO., INC., Richmond, Va. Filed Nov. 17, 1933.

URO PHOSPHATE

The words "Uro Phosphate" are disclaimed apart from the other features of the mark shown.
For Preparation Useful in the Treatment of Urinary Infection of the Colon Bacillus Origin.
Claims use since Aug. 28, 1918.

Ser. No. 343,794. THE SNOW-KING BAKING POWDER CO., Cincinnati, Ohio. Filed Nov. 17, 1933.

DAIRY MAID



For Baking Soda.
Claims use since July 8, 1932.

Ser. No. 343,819. MARTIN DE BOTELHO, New York, N. Y. Filed Nov. 18, 1933.

Arcadi

For Perfumes.
Claims use since Sept. 25, 1933.

Ser. No. 344,048. DELCO-PRODUCTS CORPORATION, Dayton, Ohio. Filed Nov. 23, 1933.

Delco

For Fluid for Hydraulic Shock Absorbers, Brakes, and the Like.
Claims use since January, 1931.

Ser. No. 344,064. DOROTHY A. SMITH, New York, N. Y. Filed Nov. 23, 1933.

DOTS

For Medicinal Preparation for the Relief of Pain in Simple Headaches, Neuralgias, Head Colds, and Muscular Aches, and Medicinal Preparation for the Relief of Discomfort Resulting from Digestive Disturbance.
Claims use since Nov. 20, 1933.

Ser. No. 344,072. JOHN H. ZIMMERMAN, doing business as The Quinex Laboratories, Garrett, Ind. Filed Nov. 23, 1933.

QUINEX

For Preparation for the Treatment of Quinsy, Canker, Tonsilitis, and Diseases of Similar Nature Affecting the Throat and Mouth.
Claims use since January, 1925.

Ser. No. 344,118. ERNST SILTEN, Berlin, Germany. Filed Nov. 24, 1933.

Dr. Ernst Silten

The trade-mark is a facsimile of the signature of the applicant.

For Substances for Treatment of Sinus Discomforts.

Claims use since Jan. 3, 1933.

Ser. No. 344,131. RENE J. BIENVENU, Colfax, La. Filed Nov. 25, 1933.

Purga-Caps

For Medicine for the Treatment of Biliousness.

Claims use since 1929.

Ser. No. 344,240. THOROUGHBRED REMEDY COMPANY, Elmont, N. Y. Filed Nov. 28, 1933.



For Liniment for Man or Beast—a Disinfectant—and the Following Veterinary Preparations—Namely, a Fever Astringent, Skin-Disease Ointment, Healing Ointment, Cod-Liver Malt Tonic, Appetizing Tonic, and Cough Balsam.

Claims use since Mar. 7, 1933.

Ser. No. 344,356. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Dec. 1, 1933.

drene

For Liquid Hymolal Shampoo.

Claims use since Oct. 25, 1933.

Ser. No. 344,403. KAYLENE, LIMITED, London, England. Filed Dec. 2, 1933.

KAYLENEMA

For Medicated Preparation for Internal Human Use as a Rectal Enema in Radiological Examination.

Claims use since Oct. 16, 1933.

Ser. No. 344,502. CARBO-FUNG CHEMICAL LABORATORIES, Los Angeles, Calif. Filed Dec. 6, 1933.

CARBO-FUNG

For Fungicide and Bactericide for Use in the Treatment of Ringworm, Pruritis, Otitis-Media, Cervicitis, Barber's-Itch, Athlete's-Foot, Quinsy, Sore Throat, Etc., as a Superficial Application.

Claims use since Jan. 29, 1932.

Ser. No. 344,527. JASON LABORATORIES, Brooklyn, N. Y. Filed Dec. 6, 1933.

JASON
SCALP COMPOUND

No claim is made to the words "Scalp Compound" except as used in conjunction with the mark sought to be registered.

For Scalp Compound.

Claims use since Nov. 1, 1932.

Ser. No. 344,536. ELIZABETH C. JONES, doing business as E. H. J. Products, Daytona Beach, Fla. Filed Dec. 6, 1933.

"PILE-CAP"

No claim is made to the word "Pile" dissociated from the trade-mark shown.

For Preparation for the Treatment of Piles.

Claims use since Sept. 15, 1933.

Ser. No. 344,656. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Dec. 8, 1933.

KEYSTONE

The drawing is lined for blue and red. However, color is not claimed as an essential feature of the mark.

For Chemical Preparation for Preventing Metal from Rusting.

Claims use since Nov. 7, 1933.

Ser. No. 344,734. VIVINY PERFUMERS, INC., West Haven, Conn. Filed Dec. 9, 1933.

J. V. S.

For Cold Cream, Vanishing Cream, Face Cream, Massage Cream, Bleaching Cream and/or Lotions, Deodorants, Depilatories, Face Powder, Toilet Water, Perfumes, Antiseptic Solutions, Camphor Ice, Lip and Face Rouge, Eyebrow Pencil.

Claims use since Aug. 19, 1932.

Ser. No. 344,735. VIVINY PERFUMERS, INC., doing business as Viviny Perfumers, West Haven, Conn. Filed Dec. 9, 1933.

TABALAX

For Laxatives.

Claims use since February, 1933.

Ser. No. 344,739. ROBERT C. WHITE COMPANY, Philadelphia, Pa. Filed Dec. 9, 1933.

VENILO

For Insect Spray.

Claims use since Sept. 1, 1933.

Ser. No. 344,805. RATIONAL MEDICINES, INC., New York, N. Y. Filed Dec. 11, 1933.

LoZAr

For a Laxative Preparation.

Claims use since Dec. 5, 1933.

Ser. No. 344,931. THE EUCATHOL COMPANY, INC., Shawnee, Okla. Filed Dec. 14, 1933.

EUCATHOL

For Ointment for Coughs, Colds, Burns, Sunburn, Sore Feet, Chapped Skin, and an After-Shaving Lotion.

Claims use since Sept. 10, 1932.

Ser. No. 345,035. PFALTZ & BAUER, INC., New York, N. Y. Filed Dec. 16, 1933.

FALBA

For Lanoline and Emollients.

Claims use since October, 1931.

Ser. No. 345,071. THE PARIS MEDICINE COMPANY, Wilmington, Del., and St. Louis, Mo. Filed Dec. 18, 1933.

E. W. Grove

The trade-mark consists of the facsimile of the signature of E. W. Grove, deceased, formerly president of applicant corporation.

For Nose Drops.

Claims use since Nov. 2, 1933.

CLASS 12

Construction Materials

Ser. No. 343,096. STRUCTURAL GYPSUM CORPORATION, New York, N. Y. Filed Oct. 31, 1933.

VELACHROME

The representations of a bag as shown in the drawing is disclaimed.

For Cementitious Material for Finishing Wall, Ceiling, and Other Surfaces.

Claims use since June 5, 1933.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 344,820. THE VOLLRATH CO., Sheboygan, Wis. Filed Dec. 11, 1933.



Applicant disclaims the representations of the goods apart from the mark shown.

For Porcelain Enameled Sheet Metal Culinary Utensils—Namely, Wash Basins, Vegetable and Meat Boilers; Coffeepots, Bowls, Colanders, Cups, Saucers, Plates, Platters, Covers, Dippers, Refrigerator Dishes, Funnels, Teakettles, Kettles, Ladles, Ring Molds, Mugs, Bain Marie Pans, Bake Pans, Dish Pans, Fry Pans, Sauce Pans, Percolators, Pitchers, Drip Coffeepots, Teapots, Sink Strainers, Tea Strainers, Trays, and Tumblers; Stainless Steel Culinary Utensils—Namely, Bowls, Double Boilers, Covers, Ladles, Bake Pans, Pots, and Trays; and Cast Iron Culinary Utensils—Namely, Bakers, Griddles, Kettles, Skillets, and Spiders.

Claims use since Oct. 28, 1933.

CLASS 15

Oils and Greases

Ser. No. 339,647. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 11, 1933.

ENNJAY

The mark consists of the word "Ennjay."

For Penetrating Oil, Separator Oil, and Machine Oil.

Claims use since June 12, 1933.

Ser. No. 341,790. DEEP ROCK OIL CORPORATION, Tulsa, Okla. Filed Sept. 22, 1933.

SUPER KANT-NOCK GASOLINE

No claim is made herein to the words "Kant-Nock" and "Super Gasoline" apart from the mark shown.
For Gasoline.
Claims use since Jan. 1, 1932.

Ser. No. 343,735. HUDSON MOTOR CAR COMPANY, Detroit, Mich. Filed Nov. 16, 1933.

HUDSONITE

For Lubricating Oils and Greases Adapted for the Purpose of Lubricating Clutches.
Claims use since Sept. 26, 1933.

Ser. No. 344,776. FILTROL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Dec. 11, 1933.

Filtrolized Oil

The word "Oil" is disclaimed apart from the mark as shown.
For Lubricating Oil.
Claims use since Nov. 29, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 345,194. AULT & WIBORG CORPORATION, New York, N. Y. Filed Dec. 21, 1933.



For Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Varnishes, Lacquers, and Paint Primers; Treated Oils Used as Paint Vehicles, Bronzing Liquids, Synthetic Resin Compositions.
Claims use since 1879.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 344,941. WILLIAM A. OTWELL, doing business as Specialty Distributors Company, Detroit, Mich. Filed Dec. 14, 1933.

SUM-R-AIR

For Heaters for Motor Vehicles Utilizing Hot Fluids from the Engine.
Claims use since Dec. 1, 1932.

Ser. No. 345,068. R. H. MACY & CO., INC., New York, N. Y. Filed Dec. 18, 1933.

Cyclone

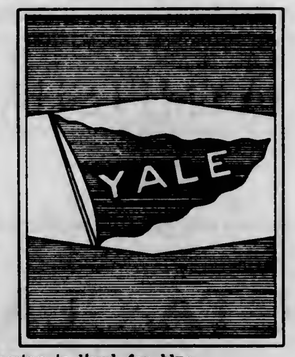
For Bicycles.
Claims use since July 1, 1913.

Ser. No. 345,161. THE HUFFMAN MANUFACTURING COMPANY, Dayton, Ohio. Filed Dec. 20, 1933.



The drawing is lined for blue.
For Bicycles and Parts Therefor.
Claims use since Nov. 25, 1933.

Ser. No. 345,162. THE HUFFMAN MANUFACTURING COMPANY, Dayton, Ohio. Filed Dec. 20 1933.



The drawing is lined for blue.
For Bicycles and Parts Therefor.
Claims use since Nov. 25, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 328,760. JAMES B. LANSING and KENNETH DECKER, doing business as Russellite Mfg. Co., Ltd., Los Angeles, Calif. Filed July 13, 1932.

Road Scout

For Electrical Road Lamps and Electrical Automobile Headlights.
Claims use since Dec. 1, 1931.

Ser. No. 343,976. C. T. ELECTRIC COMPANY, Jackson, Mich. Filed Nov. 22, 1933.

MULTIGLO

For Portable Electric Heaters.
Claims use since Oct. 7, 1933.

Ser. No. 344,447. STEWART-WARNER CORPORATION, Chicago, Ill. Filed Dec. 4, 1933.

MAGIC DIAL

No claim is made to the word "Dial" apart from the mark shown.
For Radio Receiving Sets.
Claims use since June 1, 1932.

Ser. No. 344,935. NATHAN GOLDMAN, New York, N. Y. Filed Dec. 14, 1933.



No claim is made to the conventional representation of the elements of an electronic tube which appears in the drawing apart from the mark shown.
For Electronic Tubes for Radios.
Claims use since Oct. 10, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 322,153. ACROPLANE MFG. CORP., Salem, Oreg. Filed Dec. 16, 1931.

ACROPLANE

For Stationary Mechanically-Operated Airplane Amusement Devices.
Claims use since Sept. 17, 1931.

Ser. No. 344,265. LOUIS J. FRIEDEL, doing business as Magical Manufactures, New York, N. Y. Filed Nov. 29, 1933.

Houdini MAGIC

For Bags, Boxes, and Chests of Magic Tricks, Puzzles, and Card Games Sold as a Unit.
Claims use since Aug. 25, 1933.

Ser. No. 344,461. O. B. ANDREWS COMPANY, Chattanooga, Tenn. Filed Dec. 5, 1933.

MiNuVaR

For Parlor Board Game Played with Pieces.
Claims use since Nov. 25, 1933.

Ser. No. 344,605. PARKER BROTHERS, INC., Portland, Maine, and Salem, Mass. Filed Dec. 7, 1933.

MAKE A MILLION

For Card Game.
Claims use since Dec. 2, 1933.

Ser. No. 344,745. JOHN W. ARNEY, Green Bay, Wis. Filed Dec. 11, 1933.

RO-DAY-O

For Toy Cut-Out Horse's Head, Made of Plywood, to Attach on the Steering Handle of a Child's Scooter.
Claims use since Sept. 7, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 341,081. WILLIAM DIXON, INCORPORATED, Newark, N. J. Filed Aug. 28, 1933.



The word "Tools" and the representation of a hammer are disclaimed apart from the mark as shown in the drawing.
For Electric Motor Attachments Comprising Chucks and Spindles for Drills, Buffs, and Grinding Wheels; Burs; Diesinkers'; Burnishers; Jewelry for Smoothing Down and

Finishing Stone Settings; Balls: Engravers' and Die-Sinkers'; Benches; Jewelers' Work, Manual Training Work, Hand-Draw-Tong; Blades: Hack-Saw and Jig-Saw; Bowls: Pitch, Cast Iron, and Sheet Iron; Blocks: Charcoal Soldering, Wood for Bowl-and-Tray Making, Iron for Bowl-and-Tray-Making, Dapping-Die and Design, Bench, Ring-Bending, Bench-Filing, Iron Cutting, Linoleum, Engraving; Chisels: Wood-Working, Metal-Cutting; Coppers: Soldering; Clamps: Malleable Iron, Screw; Cups, Enamel, Diamond Washing Cups and Shovels; Cutters; Dapping Die; Dies: Annealed Tool Steel Dies and Hubs for Same; Dogs: Lathe; Dressers: Grinding Wheel; Drills: Hand, Breast, Bench Electric, Twist for Drilling Holes in Metal and Wood; Files, File Cleaners, and Machine Files; Round Gravers; Grinders: Bench; Ingot Moulds; Handles: File, Hammer, Cone-Socket, Gravers', Reamers'; Hammers: Setting, Chasing, Spotting, Riveting, Silversmith; Holders: Broach, Knurl, Bench Plate or Stake, Bracelet, Flatware, Die, Milgrain, Tool, and Spoonbowl; Head: Polishing Lathe, and Lapidary Grinding, Polishing, Cutting; Knives: Wood-Carving, Leather-Workers'; Lathes: Polishing and Scratch Brush; Letters and Figures, Steel Stamps; Machines: Bench-Drilling, Scroll Saw, Jig-Saw, Beading; Malleta: Forming, Embossing, Fibre, Leather-Tipped, Dogwood, Wood-Carvers'; Mandrels: Polishing Disk, Bezel, Bracelet, Ring; Markers: Engravers'; Cutting Nippers: Pins: Bench; Pads: Leather Engravers', Pitch-Bowl, Die-Sinkers'; Pencils; India-Engravers'; Plates; Draw, Bending, Filing, Screw, Beading-Tool; Pliers; Drill Points, and Straps for Same; Presses: Screw, Foot, Power, Hand, Power-Drop; Rotary Compressors, Reamers or Broaches, Ring-Casting Outfits, Ring-Stretching and Ring-Contracting Devices, Rolling Mills, Sand-Casting Outfit, Saw Frames Such as Coping and Hack, Saw Arbors; Scrapers: Hoe and Hollow; Sieves: Stone and Peal; Scribers: Engravers'; Splashers for Catching Dirt; Scissors: Jewelers' Bezel; Stakes: Jewelers', Planishing; Spatulas: Enameling, Ink-Mixing; Sharpeners: Engravers' and Attachments Therefor; Shears: Metal-Cutting, Plate, Tinners', Jewelers', Silversmiths'; Shafts: Counter (for Lapidary Head), Flexible (for Motor Outfit); Tongs: Copper, Annealing, Soldering; Treadles; Tweezers: Applying or Picking up Metal, and Stones for Mounting; Tools: Engravers', Wood-Carving, Repoussé, Leather-Draft, Background, Pusher or Stone-Setting, Linoleum Block Cutting and Printing, Knurling, Beading, Milgrain, Chasing, Model-Makers', Metal Spinning Tools and Equipment Therefor; All-Steel Burnishing and Etching Tool; Small Sets of Tools Enclosed in the Handle Thereof; Vises: Hand, Bench, and Pin; Wire Straighteners, Foot-Power Wheels, Forged-Steel Wrenches.

Claims use since Apr. 15, 1933.

Ser. No. 341,692. PERRY MANUFACTURING COMPANY, INC., New York, N. Y. Filed Sept. 19, 1933.

PASSIMETER

For Counting and Recording Turnstiles and Like Passage-Controlling Barriers of the Rotary Type.

Claims use since Jan. 20, 1923.

Ser. No. 344,206. SHEFFIELD MFG. CORP., Irvington, N. J. Filed Nov. 27, 1933.



The drawing is lined for blue and red.

For Safety-Razor Blades.

Claims use since June 30, 1933.

CLASS 24

Laundry Appliances and Machines

Ser. No. 345,151. DAYMITSHA PADDING COMPANY, Canton, Mass. Filed Dec. 20, 1933.

"DAYMITSHA"

For Padding for Ironing and Pressing Appliances.

Claims use since Dec. 9, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 332,941. WILLSON PRODUCTS, INC., Reading, Pa. Filed Dec. 9, 1932.

OCTA-GLAS

The word "Glas" is disclaimed apart from the mark as shown.

For Ophthalmic Mountings and Parts Thereof and Lenses.

Claims use since Nov. 21, 1932.

Ser. No. 343,132. NAAMLOOZE VENNOOTSCHAP GEVAERT PHOTO-PRODUCTEN (SOCIÉTÉ ANONYME PHOTO-PRODUITS GEVAERT), Oude-God, near Antwerp, Belgium. Filed Nov. 1, 1933.

EMERALDA

For Sensitized Photographic Papers, Plates, Films, Roll Films, Portrait Films, Studio Films, Plan Films, Pack Films, Radiofilms, Cinematographic Films, Cameras and Parts Therefor, Developing Apparatus, Cinematographic Cameras and Projectors.

Claims use since Dec. 1, 1932.

Ser. No. 344,522. COLUMBIA PICTURES CORPORATION, New York, N. Y. Filed Dec. 6, 1933.



No claim is made to the words "Columbia Pictures" except as the same may be used with the other features of the mark.

For Series of Different Motion-Picture Films.

Claims use since Nov. 1, 1933.

CLASS 31

Filters and Refrigerators

Ser. No. 345,074. SERVEL, INC., New York, N. Y. Filed Dec. 18, 1933.

PETRO-FROST

For Household and Store Refrigerators and Parts Thereof, and Refrigerating Systems Used for the Preservation of Foodstuffs or Other Matter.

Claims use since Nov. 20, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 345,007. CENTA TRADING CORPORATION, New York, N. Y. Filed Dec. 16, 1933.

PRE-VUE

For Unframed Mirrors—Namely, Mirrors for Ladies' Compact Cases, Handbag Mirrors, and Easel Mirrors.

Claims use since Nov. 1, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 344,897. FRIGIDAIRE CORPORATION, Dayton, Ohio. Filed Dec. 13, 1933.

KOLD-WHIRL

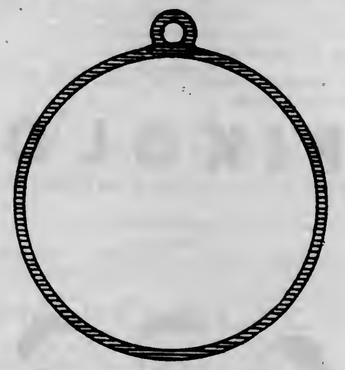
For Air Cooling and Circulating Units.

Claims use since Oct. 20, 1933.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 336,463. SOCIETÀ ITALIANA PIRELLI, Milan, Italy. Filed Apr. 5, 1933.



The trade-mark as shown in the drawing is in blue color.

For Pneumatic, Semipneumatic, Cushion, and Solid Rubber Tires; Inner Tubes for Pneumatic Tires; Transmission and Conveyor Belts; Packing Materials of Rubber and Fabrics, Asbestos, or Wire Netting, for Use as Gaskets for Liquids, Vapors, and Gases in Connection with Machines and Boilers, for Packing for Glass in Vehicle and Car Windows and Doors, and for Packing for Receptacle Closures; and Hose of Rubber Reinforced with Textile or Metallic Materials.

Claims use since December, 1930.

Ser. No. 336,468. SOCIETÀ ITALIANA PIRELLI, Milan, Italy. Filed Apr. 5, 1933.

WAYFARER

—PIRELLI—

The name "Pirelli" is disclaimed apart from the mark as shown.

For Pneumatic, Semipneumatic, Cushion, and Solid Rubber Tires; Inner Tubes for Pneumatic Tires; Transmission and Conveyor Belts; Packing Materials of Rubber and Fabrics, Asbestos, or Wire Netting, for Use as Gaskets for Liquids, Vapors, and Gases in Connection with Machines and Boilers, for Packing for Glass in Vehicle and Car Windows and Doors, and for Packing for Receptacle Closures; and Hose of Rubber Reinforced with Textile or Metallic Materials.

Claims use since March, 1933.

Ser. No. 341,443. E. M. SMITH CO., Los Angeles, Calif. Filed Sept. 8, 1933.

GRIZZLY

For Brake Lining.

Claims use since February, 1920.

Ser. No. 345,073. RAYBESTOS-MANHATTAN, INC., Passaic, N. J., and Bridgeport, Conn. Filed Dec. 18, 1933.

GENERAL

For Brake Lining.

Claims use since November, 1928.

CLASS 36

Musical Instruments and Supplies

Ser. No. 344,742. HERMAN SIMSON, doing business as H. Simson Company, New York, N. Y. Filed Dec. 8, 1933.

BEL CANTO

For Strings for Bowed and Fretted Musical Instruments; Bowed, Stringed Instruments—to wit, Violins, Violas, Cellos, and Bases; Wood Wind Instruments—to wit, Clarinets, Oboes, Bassoons, Flutes, Piccolos; Brass Instruments, to wit, Trumpets, Cornets, Trombones, and All the Larger Instruments Comprising the Band Instrument Section, from Eb Alto to BBb Sousaphone; and Fretted Stringed Instruments and Accordions of the Piano Accordion Type and Accordions of a Similar Nature.

Claims use since Nov. 16, 1933.

CLASS 37

Paper and Stationery

Ser. No. 340,090. MARCALUS MANUFACTURING COMPANY, INC., doing business as Thrifty Co., Bloomfield, N. J. Filed July 25, 1933.

THRIFTY
CUTTER BOX

No claim is made to the words "Cutter Box" apart from the mark as shown.

For Waxed Paper.

Claims use since Aug. 24, 1932.

Ser. No. 343,209. KALAMAZOO VEGETABLE PARCHMENT COMPANY, Parchment, Mich. Filed Nov. 3, 1933.

PHOTOWRAP

For Wrapping Paper.
Claims use since Oct. 2, 1933.

Ser. No. 345,351. ROCKWELL-BARNES COMPANY, Chicago, Ill. Filed Dec. 26, 1933.

Duplo

For Duplicating Paper.
Claims use since Apr. 3, 1926.

CLASS 38

Prints and Publications

Ser. No. 345,034. OUTDOOR PUBLISHING COMPANY, New York, N. Y. Filed Dec. 16, 1933.

Nude Culture

For Periodical Publication.
Claims use since Nov. 25, 1933.

Ser. No. 345,043. THE SWEDISH CHAMBER OF COMMERCE OF THE U. S. A., New York, N. Y. Filed Dec. 16, 1933.

THE *American Swedish*

• MONTHLY •

For Monthly Magazine.
Claims use since Dec. 8, 1933.

Ser. No. 345,313. H. S. RICH & Co., Chicago, Ill. Filed Dec. 28, 1933.

WESTERN BREWER

NATIONAL BREWERS MONTHLY

For Publication Published Monthly.
Claims use since Dec. 15, 1933.

Ser. No. 345,332. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Dec. 26, 1933.

The KOPPER KETTLE

For Monthly Publication.
Claims use since September, 1933.

CLASS 39

Clothing

Ser. No. 323,397. JACK & JULES FREEDMAN, New York, N. Y. Filed Jan. 25, 1932.

JEWEL-MAID

For Ladies' Dresses.
Claims use since Dec. 1, 1929.

Ser. No. 332,458. LEVY BROS. & ADLER ROCHESTER, INC., Rochester, N. Y. Filed Nov. 25, 1932.



For Men's and Boys' Linen Suits, Knickers, and Trousers.
Claims use since Oct. 20, 1932.

Ser. No. 342,552. ERNEST SIMONS MANUFACTURING CO. INC., Port Chester, N. Y. Filed Oct. 16, 1933.

FAMOUS*SLEEPERS

For Pajamas and Nightshirts for Men and Boys.
Claims use since Aug. 1, 1933.

Ser. No. 342,725. ARONSON-CAPLIN COMPANY, INC., New York, N. Y. Filed Oct. 21, 1933.

FLEXO-SEAM

The word "Seam" is claimed only in connection with the other features of the mark.
For Women's Apparel Comprising Slips, Chemises, Nightgowns, Pajamas, Brassières, and Blouses.
Claims use since Aug. 1, 1933.

Ser. No. 343,267. BERRAY CO., INC., New York, N. Y. Filed Nov. 6, 1933.

PIKOLO

For Men's, Women's, Children's, and Infants' Berets and Turbans.
Claims use since January, 1932.

Ser. No. 343,645. IRVING J. FELDMAN, doing business as Three Little Pigs Beret Company, New York, N. Y. Filed Nov. 14, 1933.



For Women's and Children's Hats, Berets, and Scarfs.
Claims use since Sept. 26, 1933.

Ser. No. 343,668. ISADORE N. GREENBERG, doing business as Morton Shirt Company, Philadelphia, Pa. Filed Nov. 13, 1933.



Applicant disclaims right to exclusive use of "Broadcloth" and "Tailored by Morton Shirt Co."
For Men's Negligee and Dress Shirts.
Claims use since July, 1928.

Ser. No. 344,294. MAX ROSENFELD, Brooklyn, N. Y. Filed Nov. 29, 1933.



The drawing is lined for shading only.
For Men's and Boys' Suits, Topcoats, and Overcoats.
Claims use since Apr. 1, 1933.

Ser. No. 344,548. SCHUYLKILL VALLEY MILLS, INC., Spring City, Pa. Filed Dec. 6, 1933.

Accordion Foot

The word "Foot" is disclaimed apart from the mark as shown.
For Hosiery.
Claims use since Jan. 16, 1933.

Ser. No. 344,630. BERKSHIRE KNITTING MILLS, Wyomissing, Pa. Filed Dec. 8, 1933.

Seriphane

For Hosiery.
Claims use since Dec. 5, 1933.

Ser. No. 345,025. JULIUS KAYSER & Co., New York, N. Y. Filed Dec. 16, 1933.

MIR-O-KLEER

For Hosiery.
Claims use since Dec. 1, 1933.

Ser. No. 345,059. ROGER KENT, INC., New York, N. Y. Filed Dec. 18, 1933.

MAN ABOUT TOWN

For Men's Wearing Apparel—Namely, Suits, Including Coats, Vests and Pants, Tuxedo and Full-Dress Suits, Coats, Trousers, Waistcoats, Mess Jackets, Overcoats, Sweaters, Scarfs, Mufflers, Neckties, Socks, Spats, Caps; Dress, Negligee, and Work Shirts; Underwear, Including One and Two Piece Garments; Garters and Suspenders.
Claims use since July 18, 1933.

Ser. No. 345,060. ROGER KENT, INC., New York, N. Y. Filed Dec. 18, 1933.

COTTONAIR

For Men's Wearing Apparel—Namely, Suits, Including Coats, Vests and Pants, Tuxedo and Full-Dress Suits, Coats, Trousers, Waistcoats, Mess Jackets, Overcoats, Sweaters, Scarfs, Mufflers, Neckties, Socks, Spats, Caps; Dress, Negligee, and Work Shirts; Underwear Including One and Two Piece Garments; Garters and Suspenders.
Claims use since July 18, 1933.

Ser. No. 345,257. JANTZEN KNITTING MILLS, Portland, Oreg. Filed Dec. 22, 1933.

Sunaka

For Swimming Suits.
Claims use since Dec. 12, 1933.

Ser. No. 345,305. JOSEPH LOVE, INC., New York, N. Y. Filed Dec. 23, 1933.

Dreself

For Children's Dresses and Topcoats.
Claims use since Dec. 15, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 336,116. GREENHILL & DANIEL, INC., Brooklyn, N. Y. Filed Mar. 27, 1933.



No claim is made to the words "Made of Latex Fabric."
For Silk, Rayon, Woolen, and Linen Piece Goods and Combinations Thereof.
Claims use since July, 1932.

CLASS 43

Thread and Yarn

Ser. No. 345,325. BARNHARDT BROTHERS, Charlotte, N. C. Filed Dec. 26, 1933.

DURACREPE

For Mixed Cotton and Rayon Yarn.
Claims use since Aug. 18, 1933.

Ser. No. 345,329. BARNHARDT BROTHERS, Charlotte, N. C. Filed Dec. 26, 1933.

DURASHEEN

For Mixed Cotton and Rayon Yarn.
Claims use since Aug. 18, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 313,040. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Apr. 7, 1931.

SOFTEX

For Sanitary Baby Pants, Sanitary Step-Ins in the Nature of Under Drawers and Sanitary Aprons.
Claims use since 1927.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 341,333. THE MANITOU MINERAL WATER CO., Colorado Springs and Denver, Colo. Filed Sept. 5, 1933.



For Nonalcoholic Maltless Beverages Sold as Soft Drinks, and Natural Mineral Water.
Claims use since Aug. 1, 1933.

Ser. No. 344,718. THEODORE ROOSEVELT FELDMANN, New York, N. Y. Filed Dec. 9, 1933.

ROYAL CAVENDISH

Exclusive right to the word "Cavendish" is disclaimed except as associated with the word "Royal."
For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups and Extracts for Making the Same.
Claims use since June 1, 1928.

Ser. No. 345,266. THE MILLER BECKER CO., doing business as Cotton Club Beverage Co., Cleveland, Ohio. Filed Dec. 22, 1933.

Cotton Club

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Dec. 1, 1929.

CLASS 46

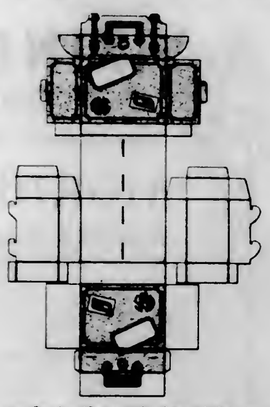
Foods and Ingredients of Foods

Ser. No. 320,522. GEO. F. WIEMANN CO. INC., New York, N. Y. Filed Oct. 27, 1931.



No claim is made to the words "Brazil's Best" and "Coffee" apart from the mark shown.
For Coffee.
Claims use since July 23, 1931.

Ser. No. 338,974. FRED W. HYDE, doing business as Rochester Nut Shop, Rochester, N. Y. Filed June 19, 1933.



No claim is made to the exclusive right to the representation of a carton as such.
For Candy and Prepared Nuts Comprising Sugar Coated and Salted Nuts.
Claims use since May 19, 1933.

Ser. No. 339,993. WEST'S SEA VEGETABLES, INC., Baltimore, Md. Filed July 21, 1933.

WEST'S SELECTED
SEA VEGETABLES



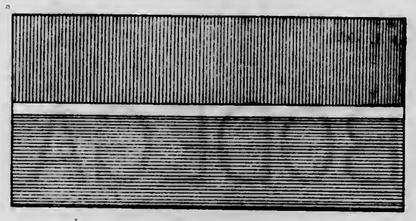
All wording except "West's Sea Vegetables Inc." is disclaimed apart from the other features of the mark shown.
For Powdered Food Supplements—Namely, Especially Prepared and Concentrated Sea Vegetables Not Sold as a Medicine.
Claims use since July 12, 1933.

Ser. No. 342,204. STAHL-MEYER, INC., New York, N. Y. Filed Oct. 6, 1933.



The drawing is lined for blue and gold.
For Hickory Smoked Ham.
Claims use since Mar. 10, 1932.

Ser. No. 342,475. GIBBS & COMPANY, Baltimore, Md. Filed Oct. 14, 1933.



The drawing is lined for blue and red. The uncolored division band indicates white.
For Canned Fruits, Canned Vegetables, Canned Soups, Canned Hominy, Canned Beans with Pork and Tomato Sauce, Tomato Juice, and Canned Spaghetti with Tomato Sauce.
Claims use since 1905.

Ser. No. 343,435. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Nov. 9, 1933.

RED DAVIS

For Chewing Gum.
Claims use since Oct. 26, 1933.

Ser. No. 343,882. RYAN COFFEE CORPORATION, New York, N. Y. Filed Nov. 20, 1933.



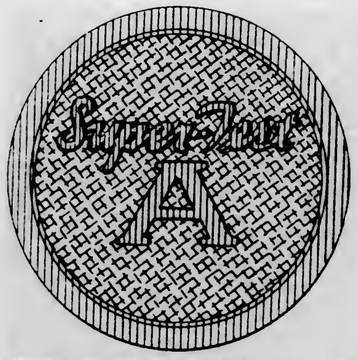
For Coffee.
Claims use since Oct. 20, 1933.

Ser. No. 343,940. HENRY PAUL BELISLE, Worcester, Mass. Filed Nov. 22, 1933.

CHILDEGZ

For Eggs.
Claims use since Sept. 1, 1933.

Ser. No. 344,204. PEVELY DAIRY COMPANY, St. Louis, Mo. Filed Nov. 27, 1933.



The drawing is lined for red and orange. No claim is made to the exclusive use of the letter "A" apart from the trade mark shown.
For Milk.
Claims use since Nov. 19, 1933.

Ser. No. 344,439. DAVID PENDER GROCERY CO., Norfolk, Va. Filed Dec. 4, 1933.



For Baking Powder.
Claims use since April, 1933.

Ser. No. 344,468. COAST FISHING CO., INC., Wilmington, Calif. Filed Dec. 5, 1933.

BALTO

For Animal Food—Namely, Food for Dogs, Cats, Foxes, and Other Carnivorous Animals.
Claims use since Mar. 15, 1931.

Ser. No. 344,477. C. D. KENNY COMPANY, Baltimore, Md. Filed Dec. 5, 1933.

JOLLY JELL

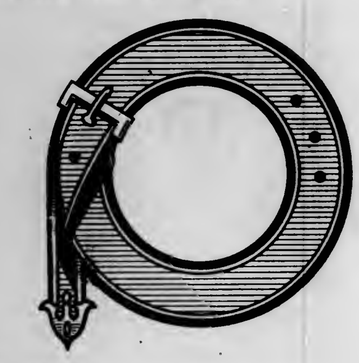
No claim is made to the word "Jell" apart from the mark as shown.
For Gelatine Dessert.
Claims use since Nov. 6, 1933.

Ser. No. 344,544. PARKWAY BAKING COMPANY, Philadelphia, Pa. Filed Dec. 6, 1933.



No claim is made to the words "Crust", "Bread", "Vitamin D", and "Sliced" apart from the mark shown. The drawing is lined for red, blue and tan.
For Bread.
Claims use since Oct. 26, 1933.

Ser. No. 344,969. EASTMAN GELATINE CORPORATION, Peabody, Mass. Filed Dec. 15, 1933.



For Gelatine.
Claims use since Nov. 1, 1929.

Ser. No. 345,131. WESCO FOODS COMPANY, Cincinnati, Ohio. Filed Dec. 19, 1933.

MICHIGAN MAID

For Butter.
Claims use since September, 1931.

Ser. No. 345,261. L. A. PACIFIC MACARONI CO., Los Angeles, Calif. Filed Dec. 22, 1933.

Sun-Vite

For Macaroni, Spaghetti, and Noodles of All Kinds.
Claims use since July 8, 1933.

CLASS 47

Wines

Ser. No. 337,507. PIERRE JOSEPH D'HAESE, Paris, France, assignor to Georges de Ruyter, Paris, France. Filed May 5, 1933.

BODEGA

For Wine.
Claims use since January, 1877.

Ser. No. 342,242. SOUTHARD & CO., LTD., doing business as José Ramirez & Co., London, England. Filed Oct. 7, 1933.



All words on the drawing are disclaimed apart from the mark as shown. The representation of a label is disclaimed per se.
For Sherry.
Claims use since May 29, 1878.

Ser. No. 343,515. MARESCHAL & CIE, Reims, France. Filed Nov. 10, 1933. Under 10-year proviso.



For Champagne Wines and Sparkling Wines.
Claims use since 1873.

Ser. No. 344,271. JAMES HAWKER & CO., LIMITED, Plymouth, England. Filed Nov. 29 1933.



No claim is made to the exclusive use of the words "Brand", "Wine Merchants", and "Plymouth". The drawing is lined for shading.
For Port Wine, Sherry, and Other Wines.
Claims use since 1895.

Ser. No. 344,285. JAMES J. LANZA doing business as Lanza Wine Co., San Francisco, Calif. Filed Nov. 29, 1933.

GOLD BOND

For Wines.
Claims use since Oct. 2, 1933.

Ser. No. 344,539. MAISON GEISWEILER & FILS, SOCIETE ANONYME, Nuits-St.-Georges, France. Filed Dec. 6, 1933.



GEISWEILER'S - SPARKLING



No claim is made to the words "Red", "Sparkling" "Negociants à Nuits St. Georges, France" apart from the mark shown.
For Wine.
Claims use since Sept. 25, 1933.

Ser. No. 344,664. MEDITERRANEAN IMPORTING CO., INC., New York, N. Y. Filed Dec. 8, 1933.



No claim is made to the words "Trade Mark."
For Still and Sparkling Wines.
Claims use since Dec. 5, 1933.

Ser. No. 344,756. MANUEL CABRERA Y GARCIA, Habana, Cuba. Filed Dec. 11, 1933.



For Wines.
Claims use since Jan. 9, 1923.

Ser. No. 344,827. CARLOS DE SATRUSTEGUI Y FERNANDEZ, Madrid, Spain. Filed Dec. 11, 1933.



No claim is made to the words "Bodegas y Vinas."
For Wines.
Claims use since Oct. 13, 1927.

Ser. No. 344,861. MEYER & LANGE, INC. New York, N. Y. Filed Dec. 12, 1933.



No claim is made to the representation of a label per se.
For Still Wines.
Claims use since January, 1927.

Ser. No. 345,205. KOLMAR, INC. Cincinnati, Ohio. Filed Dec. 21, 1933.

GOLDEN GRAIL

For Wines.
Claims use since Dec. 6, 1933.

Ser. No 345,231. WILKINSON, GADDIS & CO., Newark, N. J. Filed Dec. 21, 1933.

IDEAL

For Champagne and Wines of All Kinds.
Claims use since Nov. 15, 1933.

CLASS 48

Malt Beverages and Liquors

Ser. No. 333,276. THE AMERICAN MALT COMPANY, Baltimore, Md. Filed Dec. 22, 1932.



The picture represents a statue of Gambrinus, a Mythical king of Flanders.
For Malt Beverages Having Not More Than the Legal Alcoholic Content.
Claims use since Dec. 16, 1932.

Ser. No. 339,524. HARVARD BREWING CO., Lowell, Mass. Filed July 6, 1933.

GREEN LABEL

No claim is made to the right to the exclusive use of a label colored green.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since June 26, 1933.

Ser. No. 344,427. HANS H. BEHRENS, doing business as H. H. Behrens & Sons, Bay City, Mich. Filed Dec. 4, 1933.

Phoenix

For Malt Used for Making Beer.
Claims use since September, 1925.

Ser. No. 344,800. OLYMPIA BREWING CO., Olympia, Wash. Filed Dec. 11, 1933.

"IT'S THE WATER"

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Feb. 1, 1902.

Ser. No. 345,198. ESSLINGER'S, INC., Philadelphia, Pa. Filed Dec. 21, 1933.

Robin Hood

For Malt Beverages of Legal Alcoholic Content.
Claims use since Dec. 20, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 339,309. HANDELSVENNOOTSCHAP ONDER DE FIRMA CATZ & ZOON VAN PEKELA, Groningen, Netherlands. Filed June 28, 1933. Under 10-year proviso.



For Distilled Bitters.
Claims use since Dec. 1, 1861.

Ser. No. 339,311. HANDELSVENNOOTSCHAP ONDER DE FIRMA CATZ & ZOON VAN PEKELA, Groningen, Netherlands. Filed June 28, 1933. Under 10-year proviso.



For Distilled Bitters.
Claims use since Dec. 1, 1861.

Ser. No. 342,158. WILLIAM P. LAWSON, doing business as Maryland Hunt Club Distilling Company, Baltimore, Md. Filed Oct. 5, 1933.

MARYLAND
HUNT CLUB

For Rye Whiskey.
Claims use since May 17, 1933.

Ser. No. 342,236. JACOB S. POLEFSKY, doing business as The Continental Pure Products Co., New York, N. Y. Filed Oct. 7, 1933.

DOX

For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.
Claims use since April, 1933.

Ser. No. 342,237. JACOB S. POLEFSKY, doing business as The Continental Pure Products Co., New York, N. Y. Filed Oct. 7, 1933.

FOREIGN LEGION

For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.
Claims use since Oct. 2, 1933.

Ser. No. 342,238. JACOB S. POLEFSKY, doing business as The Continental Pure Products Co., New York, N. Y. Filed Oct. 7, 1933.

Gay Paree

For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.
Claims use since Oct 2, 1933.

Ser. No. 342,239. JACOB S. POLEFSKY, doing business as The Continental Pure Products Co., New York, N. Y. Filed Oct. 7, 1933.

GERMETZ

For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.
Claims use since April, 1933.

Ser. No. 342,485. THE MILE END DISTILLERY COMPANY, LTD., London, England. Filed Oct. 14, 1933.



The portrait shown is fanciful.
For Whisky.
Claims use since 1927

Ser. No. 342,501. UNITED DISTILLERS CORPORATION, New York, N. Y. Filed Oct. 14, 1933.

Meadville

No claim is made to the word "Meadville" apart from the mark shown.
For Brandy, Gin, Whiskey, and Other Potable Spirits
Claims use since 1912.

Ser. No. 342,812. JACOB S. POLEFSKY, doing business as The Continental Pure Products Co., New York, N. Y. Filed Oct. 23, 1933.

Gay Life



For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.
Claims use since Oct. 5, 1933.

Ser. No. 343,317. ANA GONZALEZ RUBIO VDA. DE CUERVO, doing business as Jose Cuervo, Mexico, Mexico. Filed Nov. 7, 1933.



The drawing is lined for gold, red, black, and gray. No claim is made to the wording on the drawing except "Cuervo", "Jose Cuervo, Sucra", and "La Rojena".
For Brandy.
Claims use since October, 1932.

Ser. No. 343,318. ANA GONZALEZ RUBIO VDA. DE CUERVO, doing business as Jose Cuervo, Mexico, Mexico. Filed Nov. 7, 1933.



The drawing is lined for gold, red, black, and green. No claim is made to wording on drawing except "Jose Cuervo", "La Rojena", "J. C.", and the facsimile signature.

For Brandy.

Claims use since January, 1909.

Ser. No. 343,452. JAMES HAWKER & CO., LIMITED, Plymouth, England. Filed Nov. 9, 1933.



No claim is made to the exclusive use of the words "Brand", "Wine Merchants", and "Plymouth".

For Sloe Gin, Cherry Gin, Orange Gin, Apricot Gin, Whisky, Cherry Whisky, Apricot Brandy, Peach Brandy, Ginger Brandy, Orange Bitters, Peach Bitters, Milk Punch, and Other Distilled Alcoholic Liquors.

Claims use since 1895.

Ser. No. 343,583. CASTLE & CO., LIMITED, London, England. Filed Nov. 13, 1933.



No claim is made to the words "Wine Merchants" apart from the mark shown.

For Whisky.

Claims use since Dec. 15, 1932.

Ser. No. 343,659. MINNA F. LIPPMAN, Teaneck, N. J. Filed Nov. 14, 1933. Under 10-year proviso.



The drawing is lined for shading.

For Whiskey.

Claims use since 1880.

Ser. No. 343,704. JACOB S. POLEFSKY, doing business as The Continental Pure Product Co., New York, N. Y. Filed Nov. 15, 1933.

DYNASTY

For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.

Claims use since Oct. 25, 1933.

Ser. No. 343,705. JACOB S. POLEFSKY, doing business as The Continental Pure Products Co., New York, N. Y. Filed Nov. 15, 1933.

LE JOUR

For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.

Claims use since Oct. 25, 1933.

Ser. No. 343,706. JACOB S. POLEFSKY, doing business as The Continental Pure Products Co., New York, N. Y. Filed Nov. 15, 1933.

TIMES SQUARE

For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.

Claims use since Oct. 25, 1933.

Ser. No. 343,739. NORTH AMERICAN CONTINENTAL CORPORATION, New York, N. Y. Filed Nov. 16, 1933.



The drawing is lined for gold. No claim is made to the outline of the label per se.

For Whiskey.

Claims use since Oct. 2, 1933.

Ser. No. 343,802. STROHMEYER & ARPE COMPANY, New York, N. Y. Filed Nov. 17, 1933.

ASCOT CLUB

Right to the use of the word "Club" apart from the mark shown is hereby disclaimed.

For Gin.

Claims use since 1906.

Ser. No. 343,803. STROHMEYER & ARPE COMPANY, New York, N. Y. Filed Nov. 17, 1933.

OPERA CLUB

Right to the use of the word "Club" apart from the mark shown is hereby disclaimed.

For Gin.

Claims use since 1902.

Ser. No. 344,144. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Nov. 25, 1933.



No claim is made to the word "Golden" apart from the mark shown.

For Whiskey and Other Potable Distilled Spirits.

Claims use since Oct. 1, 1926.

Ser. No. 344,192. ALBERT KELLERMANN, doing business as Albert Kellermann & Son, New York, N. Y. Filed Nov. 27, 1933.



For Rye Whiskey.

Claims use since 1846.

Ser. No. 344,193. ALBERT KELLERMANN, doing business as Albert Kellermann & Son, New York, N. Y. Filed Nov. 27, 1933.



For Rye Whiskey.

Claims use since 1846.

Ser. No. 344,337. J. R. LARSEN & CO., SOCIÉTÉ À RESPONSABILITÉ LIMITÉE, Cognac, France. Filed Dec. 1, 1933.



The words "Cognac" and "Fine Champagne" are disclaimed apart from the mark as shown.

For Cognac Brandy.

Claims use since 1929.

Ser. No. 344,410. SIMPSON SHEPHERD & SONS LIMITED, Aberdeen, Scotland. Filed Dec. 2, 1933.



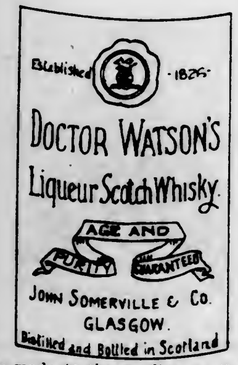
FORTIFICATION.

The word "Fortification" is disclaimed apart from the mark shown.

For Whisky.

Claims use since May 10, 1897.

Ser. No. 344,501. ROBERT BOOTH, doing business as John Somerville & Company, Glasgow Scotland. Filed Dec. 6, 1933.



No claim is made to the wording on the drawing with the exception of "Doctor Watson's", "Established 1826", and "John Somerville & Co."
For Whiskey.
Claims use since Dec. 15, 1926.

Ser. No. 344,503. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

BUNKER HILL

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,504. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

CHERRY GROVE

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,506. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

DUNHUNTIN

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,508. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

GLEE CLUB

Applicant disclaims the word "Club" apart from the mark as shown.
For Gin.
Claims use since Dec. 6, 1933.

Ser. No. 344,509. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

GOLD CHEVRON

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,511. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933

Old Belvedere

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,512. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

OLD GRAD

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,514. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933

Old Overland

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,515. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

PINE GROVE

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,517. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

Royal Castle

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,519. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

TRIPLE KICK

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,520. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 6, 1933.

WHITE WAY

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,558. W. G. BOND, INC., Baltimore, Md. Filed Dec. 7, 1933.



For Rye Whiskey.
Claims use since 1916.

Ser. No. 344,559. W. G. BOND, INC., Baltimore, Md. Filed Dec. 7, 1933.



For Rye Whiskey.
Claims use since 1897.

Ser. No. 344 561. W. G. BOND, INC., Baltimore, Md. Filed Dec. 7, 1933.



For Rye Whiskey.
Claims use since 1897.

Ser. No. 344,563. W. G. BOND, INC., Baltimore, Md. Filed Dec. 7, 1933.



The drawing is lined for shading.
For Gin.
Claims use since Dec. 5, 1933.

Ser. No. 344,611. TRAIN & MCINTYRE, LIMITED, Glasgow, Scotland. Filed Dec. 7, 1933.

ERA

For Whiskey.
Claims use since 1904.

Ser. No. 344,612. TRAIN & MCINTYRE, LIMITED, Glasgow, Scotland. Filed Dec. 7, 1933.



No claim is made to the wording appearing on the drawing with the exception of the letters "T T" and applicant's name, nor to the diamond device, nor to the exclusive use of a label colored grey.
For Whiskey.
Claims use since 1915.

Ser. No. 344,623. DISTILLERS PRODUCTS CORPORATION OF AMERICA, New York, N. Y. Filed Dec. 8, 1933.

HB

For Whiskey, Gin, Brandy, Alcoholic Cordials, and Liqueurs.
Claims use since Dec. 6, 1933.

Ser. No. 344,689. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 9, 1933. Under 10-year proviso.

CEDAR RUN

For Whiskey.
Claims use since 1869.

Ser. No. 344,690. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 9, 1933. Under 10-year proviso.

"Crab Orchard"

For Whiskey.
Claims use since 1880.

Ser. No. 344,691. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 9, 1933. Under 10-year proviso.

MAYFIELD

For Whiskey.
Claims use since 1870.

Ser. No. 344,692. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 9, 1933. Under 10-year proviso.

Old W. S. Stone

For Whiskey.
Claims use since 1877.

Ser. No. 344,693. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 9, 1933.

PARAGON

For Gin and Whiskey.
Claims use since 1923.

Ser. No. 344,694. BAIRD-TAYLOR, LIMITED, Glasgow, Scotland. Filed Dec. 9, 1933.



Applicant disclaims any right to exclusive use of wording shown (save applicant's name) except in association in which the same appears.
For Jamaica Rum.
Claims use since 1897.

Ser. No. 344,695. JOHN BEGG LIMITED, Glasgow, Scotland. Filed Dec. 9, 1933. Under 10-year proviso.

JOHN BEGG

For Scotch Whisky.
Claims use since Mar. 4, 1876.

Ser. No. 344,696. ARTHUR BELL AND SONS, LIMITED, Perth, Scotland. Filed Dec. 9, 1933.

Special Reserve
Old Scotch Whisky
Arthur Bell & Sons Ltd.
PERTH.
SCOTLAND.
Established 1825.
REGISTERED.

CONCERNING
ARTHUR BELL & SONS Ltd., SPECIAL RESERVE SCOTCH WHISKY.

This particularly fine Old Scotch Whisky is the produce of some of the most noted Stills in Scotland. After being distilled it was stored in duty-free Warehouses, where it has been lying during past years, and is now thoroughly matured. Connoisseurs will recognise that its light and delicate, while possessing the true characteristic Highland flavour.

The signature "Arthur Bell & Sons" is in the handwriting of a member of applicant's predecessor firm. Applicant disclaims any right to exclusive use of wording shown (save applicant's name) except in the association in which the same appears.
For Scotch Whisky.
Claims use since 1917.

Ser. No. 344,698. BENNETT DISTILLING COMPANY, San Francisco, Calif. Filed Dec. 9, 1933.

Kentucky Queen

For Whiskey.
Claims use since Nov. 6, 1933.

Ser. No. 344,713. ERNEST DE JOUENO, New York, N. Y. Filed Dec. 9, 1933.

GRAND EMPEREUR

For Cognac and Brandy.
Claims use since 1913.

Ser. No. 344,730. SCHENLEY PRODUCTS CO., INC., New York, N. Y. Filed Dec. 9, 1933.

Rock Cave

For Whiskey and Other Potable Distilled Spirits.
Claims use since 1868.

Ser. No. 344,743. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 11, 1933. Under 10-year proviso.

Spring Still

For Whiskey.
Claims use since 1878.

Ser. No. 344,744. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed Dec. 11, 1933.

WILLOW SPRINGS

For Whiskey.
Claims use since 1924.

Ser. No. 344,763. CONNECTICUT DISTILLERIES, INC., Nash's Corners, Westport, Conn. Filed Dec. 11, 1933.



For Brandy.
Claims use since Dec. 9, 1933.

Ser. No. 344,786. IRVING M. JACOBS, doing business as Pacific Imperial Co., Los Angeles, Calif. Filed Dec. 11, 1933.

Clover Leaf

For Gin.
Claims use since Dec. 6, 1933.

Ser. No. 344,799. OLD KENTUCKY DISTILLERY, INCORPORATED, Louisville, Ky. Filed Dec. 11, 1933.



For Whiskey.
Claims use since 1895.

Ser. No. 344,801. H. R. PAFFORD, doing business as Old Colony Wine Company, Los Angeles, Calif. Filed Dec. 11, 1933.

GOLDEN SOVEREIGN

For Brandies.
Claims use since Dec. 6, 1933.

Ser. No. 344,817. TONKIN DISTRIBUTING CO., doing business as Old Abbey Distilling Co., San Francisco, Calif. Filed Dec. 11, 1933.

POLO CLUB

The word "Club" is disclaimed apart from the mark shown.
For Gin and Other Potable Distilled Spirits.
Claims use since Oct. 19, 1933.

Ser. No. 344,818. TONKIN DISTRIBUTING CO., San Francisco, Calif. Filed Dec. 11, 1933.

WHITE SWAN

For Gin and Other Potable Distilled Spirits.
Claims use since Oct. 19, 1933.

Ser. No. 344,832. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 12, 1933.

OLD
ONE-EIGHTY
ONE
181

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,834. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 12, 1933.

Hickory Grove

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,837. COLONIAL DISTILLING & DISTRIBUTING CORPORATION, New York, N. Y. Filed Dec. 12, 1933.

Tally-Ho

For Whiskey.
Claims use since Dec. 1, 1933.

Ser. No. 344,839. CRESTA BLANCA COMPANY, doing business as Bennett Distilling Company, San Francisco, Calif. Filed Dec. 12, 1933.

KENTUCKY MAID



The figure shown is fanciful.
For Whisky and Other Potable Distilled Spirits.
Claims use since Nov. 6, 1933.

Ser. No. 344,840. CRESTA BLANCA COMPANY, doing business as Bennett Distilling Company, San Francisco, Calif. Filed Dec. 12, 1933.



For Whiskey and Other Potable Distilled Spirits.
Claims use since 1915.

Ser. No. 344,841. CRESTA BLANCA COMPANY, doing business as Bennett Distilling Company, San Francisco, Calif. Filed Dec. 12, 1933.

OLD COVE

For Whiskey and Other Potable Distilled Spirits.
Claims use since 1915.

Ser. No. 344,857. LES HERITIERS DE MARIE BRIZARD & ROGER, ACHARD, GLOTIN & CIE, Bordeaux, France. Filed Dec. 12, 1933.

APRY

For Apricot Brandy.
Claims use since 1920.

Ser. No. 344,873. SOCIETE ANONYME DE LA GRANDE DISTILLERIE E. CUSENIER FILS AINE & CIE, Paris, France. Filed Dec. 12, 1933.

FREEZOMINT

For Creme de Menthe.
Claims use since Oct. 11, 1920.

Ser. No. 344,895. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Dec. 13, 1933.

CANE SPRING

For Whiskey and Other Potable Distilled Spirits.
Claims use since February, 1925.

Ser. No. 344,902. GENERAL WINES & SPIRITS CORPORATION, Dover, Del., and New York, N. Y. Filed Dec. 13, 1933.



For Whiskey, Gin, Rum, and Brandy.
Claims use since Dec. 6, 1933.

Ser. No. 344,911. MARVIN AND SNEAD, INC., New York, N. Y. Filed Dec. 13, 1933.



For Whiskey.
Claims use since Dec. 7, 1933.

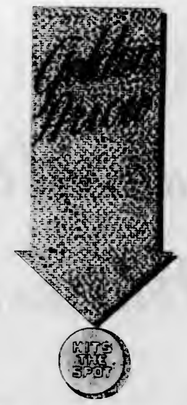
Ser. No. 344,912. MARVIN AND SNEAD, INC., New York, N. Y. Filed Dec. 13, 1933.



For Whiskey.
Claims use since Dec. 7, 1933.

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Ser. No. 344,919. NORTH AMERICAN CONTINENTAL CORPORATION, New York, N. Y. Filed Dec. 13, 1933.



The drawing is lined for gold and red.
For Gin.
Claims use since Dec. 5, 1933.

Ser. No. 344,923. SOCIETE ANONYME COLONIALE ERNEST LAMBERT & CIE, Neuilly-sur-Seine, France. Filed Dec. 13, 1933. Under 10-year proviso.

SAINT-JAMES

For Rum.
Claims use since Aug. 21, 1882.

Ser. No. 344,929. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Dec. 14, 1933.

Cavalier

For Whiskey, Gin, Rum, Rye, Brandy, and Cordials.
Claims use since Nov. 17, 1933.

Ser. No. 344,963. ISAAC NEWTON TRAGER, Cincinnati, Ohio. Filed Dec. 15, 1933.

Lewis 66

For Whiskey.
Claims use since 1875.

Ser. No. 344,966. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 15, 1933.

Bull Run

For Whiskey.
Claims use since Dec. 6, 1933.

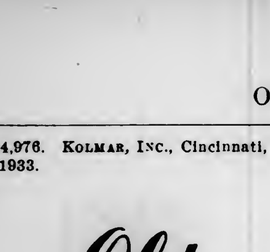
Ser. No. 344,976. KOLMAR, INC., Cincinnati, Ohio. Filed Dec. 15, 1933.

Old Embassy Club Whiskey

No claim is made to the words "Club" and "Whiskey" apart from the mark shown.
For Whiskey, Brandy, Gin, Rum, and Other Potable Distilled Spirits.
Claims use since Dec. 6, 1933.

Ser. No. 344,985. CHARLES S. RODGERS, doing business as Rodgers Distilleries Co., Chicago, Ill. Filed Dec. 15, 1933.

RODGERS'



For Alcoholic Beverages Comprising Particularly Whiskey and Gin.
Claims use since Dec. 6, 1933.

Ser. No. 344,989. SCHENLEY PRODUCTS COMPANY, New York, N. Y. Filed Dec. 15, 1933. Under 10-year proviso.

MOUNT PLEASANT

For Whiskey and Other Potable Distilled Spirits.
Claims use since 1892.

Ser. No. 344,993. HIRAM WALKER & SONS, INC., Peoria, Ill. Filed Dec. 15, 1933.



No claim is made to the words "Absolutely Pure Distilled Rye Rich & Mellow" and the words "Pure Rye" apart from the other features of the mark.
For Pure Distilled Rye Whiskey and/or Other Potable Distilled Spirits.
Claims use since 1865.

Ser. No. 344,994. HIRAM WALKER & SONS, INC., Peoria, Ill. Filed Dec. 15, 1933.

BLACK HAWK

For Blended Bourbon Whiskey, and/or Other Potable Distilled Spirits.
Claims use since Dec. 5, 1933.

Ser. No. 344,997. WEST INDIES LIQUOR CORPORATION, New Orleans, La. Filed Dec. 15, 1933.

Cabildo

For Rum.
Claims use since Dec. 12, 1933.

Ser. No. 345,003. PIPING ROCK DISTRIBUTORS, INC., Brooklyn N. Y. Filed Dec. 15, 1933.

PIPING ROCK

For Gin and Gin Essences.
Claims use since Dec. 7, 1933.

Ser. No. 345,004. PIPING ROCK DISTRIBUTORS, INC., Brooklyn, N. Y. Filed Dec. 15, 1933.

FOX CHASE

For Gin and Gin Essences.
Claims use since Dec. 7, 1933.

Ser. No. 345,014. FRIEDMAN, KEILER & COMPANY, INCORPORATED, Paducah, Ky. Filed Dec. 16, 1933.

ROYAL CLUB

No claim is made to the exclusive use of the word "Club" except in the association shown.
For Gin.
Claims use since 1907.

Ser. No. 345,015. FRIEDMAN, KEILER & COMPANY, INCORPORATED, Paducah, Ky. Filed Dec. 16, 1933.

FOUR MEMORIES

For Whiskies.
Claims use since 1907.

Ser. No. 345,016. FRIEDMAN, KEILER & COMPANY, INCORPORATED, Paducah, Ky. Filed Dec. 16, 1933.

King Leo

For Whiskies.
Claims use since Jan. 1, 1895.

Ser. No. 345,018. FRIEDMAN, KEILER & COMPANY, INCORPORATED, Paducah, Ky. Filed Dec. 16, 1933. Under 10-year proviso.

Newport

For Whiskies.
Claims use since 1888.

Ser. No. 345,033. THE OLD QUAKER COMPANY, New York, N. Y. Filed Dec. 16, 1933. Under 10-year proviso.

LONDON TOM

For Gin, Whiskey, and Other Potable Distilled Spirits.
Claims use since 1878.

Ser. No. 345,045. L. BAMBERGER & Co., Newark, N. J. Filed Dec. 18, 1933.

Gifford's Inn

For Whiskey and Other Potable Distilled Spirits.
Claims use since Dec. 12, 1933.

Ser. No. 345,055. WM. HOELSCHER & Co., San Francisco, Calif. Filed Dec. 18, 1933. Under 10-year proviso.

I. DE TURK

For Brandy, Vermouths, Cordials, and Other Potable Distilled Spirits.
Claims use since 1878.

Ser. No. 345,100. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Dec. 19, 1933. Under 10-year proviso.

OLD SCHENLEY Special Reserve



For Whiskey and Other Potable Distilled Liquors.
Claims use since December, 1892.

Ser. No. 345,206. KOLMAR, INC., Cincinnati, Ohio. Filed Dec. 21, 1933.

Piping Rock

For Whiskey, Brandy, Gin, Rum, and Other Potable Distilled Spirits.
Claims use since Dec. 6, 1933.

Ser. No. 345,397. JAS. E. PEPPER & COMPANY, Lexington, Ky., and New York, N. Y. Filed Dec. 27, 1933. Under 10-year proviso.

D.L.MOORE

For Whiskey and Other Potable Distilled Spirits.
Claims use since 1889.

Ser. No. 345,435. PENNSYLVANIA DISTILLING COMPANY, INC., doing business as Pennsylvania Distillery, Inc., Logansport, Pa., and Brooklyn, N. Y. Filed Dec. 28, 1933.

Mayfair

For Whiskey.
Claims use since 1928.

Ser. No. 345,462. COLONIAL DISTILLING & DISTRIBUTING CORPORATION, New York N. Y. Filed Dec. 29, 1933.

KENTUCKY MAID

For Whiskey.
Claims use since Dec. 12, 1933.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 335,626. RUDOLF ALTENKIRCH, Lausanne, Switzerland. Filed Mar. 14, 1933.

METALLOPLASTICO

For Artistic Decorations in the Form of Metal Plates to be Attached to the Surfaces of Various Articles.
Claims use since Feb. 2, 1932.

Ser. No. 337,154. JUANITA CLIVETTE, New York, N. Y. Filed Apr. 25, 1933.

MY SHRINE

For Base Metal, Porcelain, and Clay Statuettes.
Claims use since Mar. 31, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

FEBRUARY 6, 1934

309,842. APPLE BUTTER, BEETS, CATSUP, CHERRY PRESERVES, MINT CHERRIES, CHERRIES, GRAPE PRESERVES, OLIVES, PEANUT BUTTER, PICKLES, SPAGHETTI (ITALIAN STYLE), TOMATO JUICE. THE RIDGELY FOOD COMPANY, New York, N. Y.
Filed August 18, 1933. Serial No. 340,813. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,843. BAY RUM. THE H. MICHELSEN CO. LTD., New York, N. Y.
Filed August 18, 1933. Serial No. 340,804. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,844. BAY RUM. THE H. MICHELSEN CO. LTD., New York, N. Y.
Filed August 18, 1933. Serial No. 340,805. PUBLISHED NOVEMBER 21, 1933. Class 6.

309,845. CRESOL DISINFECTANT. UNITED CHEMICAL CO., INC., Kansas City, Mo.
Filed August 16, 1933. Serial No. 340,758. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,846. FACIAL CLEANSING TISSUE PAPER. HAHN DEPARTMENT STORES, INC., Wilmington, Del.
Filed August 18, 1933. Serial No. 340,792. PUBLISHED NOVEMBER 28, 1933. Class 37.

309,847. TOOTH POWDER, MOUTH WASH, DENTAL CREAM, AND TOOTH PASTE. DAVID D. HYMAN, doing business as Dr. Hyman's Dental Products Co., Philadelphia, Pa.
Filed August 15, 1933. Serial No. 340,715. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,848. MOUTH WASH, TOOTH PASTE, TOOTH POWDER, AND DENTAL SUCTION POWDER FOR HOLDING DENTURES IN PLACE. DAVID D. HYMAN, doing business as Dr. Hyman's Dental Products Co., Philadelphia, Pa.
Filed August 15, 1933. Serial No. 340,719. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,849. WINES. CARLOS AUGUSTE EGLI, Valencia, Spain.
Filed August 9, 1933. Serial No. 340,521. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,850. CHEMICAL USED FOR RUST-PROOFING METAL OBJECTS. AMERICAN CHEMICAL PAINT COMPANY, Lower Gwynedd Township, Montgomery County, Pa.
Filed August 12, 1933. Serial No. 340,635. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,851. ADHESIVE PADS, ADHESIVE PLASTERS, BANDAGES, AND INSTRUMENTS—NAMELY, MANICURE SCISSORS, CORN AND CALLOUS KNIVES, CUTICLE SCISSORS AND KNIVES, ORANGE STICKS, NAIL FILES, AND NAIL BUFFERS FOR THE CARE OF THE HANDS AND FEET. THE GREGG CORPORATION, Providence, R. I.
Filed August 2, 1933. Serial No. 340,318. PUBLISHED NOVEMBER 7, 1933. Class 44.

309,852. SILVERWARE POLISH, CLEANING COMPOUNDS—NAMELY, RUG CLEANERS, WATERLESS CLEANERS, WALL PAPER CLEANERS, PAINT CLEANERS, AND OIL SOAP. THE COCHRAN COMPANY, Cleveland, Ohio.
Filed August 9, 1933. Serial No. 340,519. PUBLISHED NOVEMBER 28, 1933. Class 4.

309,853. BIRD BITTERS, ANTISEPTIC CAGE CLEANER AND LICE DESTROYER, ANTISEPTIC BIRD WASH, BIRD NESTING CONSISTING OF ANIMAL HAIR, BIRD TONIC, IRON TONIC FOR BIRDS, WHITE FUNGUS REMEDY, FISH TONIC, FLEA POWDER, INFUSORIA PRODUCER—NAMELY, A COMPOUND TO BE PLACED IN LUKEWARM WATER FOR GERMINATING CERTAIN LOW FORMS OF ANIMAL OR VEGETABLE LIFE FORMING NATURAL FOOD FOR FISH, LICE POWDER, SILVER BIRD GRAVEL PREPARATION. THE JUSTRITE COMPANY, Milwaukee, Wis.
Filed July 29, 1933. Serial No. 340,225. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,854. MEDICATED ADHESIVE BUNION, CALLOUS, AND CORN PADS AND MEDICATED ADHESIVE MOLESKIN, FOR USE IN TREATING CORNS, CALLOUSES, BUNIONS, AND TENDER SPOTS. THE GREGG CORPORATION, Providence, R. I.
Filed August 2, 1933. Serial No. 340,317. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,855. COFFEE, CANNED VEGETABLES, CANNED FRUITS, CANNED OYSTERS, AND CANNED FISH; JELLIES, PEANUT BUTTER, TEA, BERRY PRESERVES, AND FRUIT PRESERVES. CHITTY & CO., Jacksonville, Fla.
Filed July 29, 1933. Serial No. 340,219. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,856. CANNED VEGETABLES, CANNED SAUERKRAUT, CATSUP, COFFEE, ETC. CHITTY & CO., Jacksonville, Fla.
Filed July 29, 1933. Serial No. 340,220. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,857. CHEWING GUM. THE GOUDEY GUM CO., Boston, Mass.
Filed September 22, 1933. Serial No. 341,795. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,858. COOKING AND SALAD OIL. GLOBE GRAIN AND MILLING COMPANY, doing business as Globe Mills of California, Los Angeles, Calif.
Filed July 24, 1933. Serial No. 340,044. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,859. PREPARATION RECOMMENDED FOR THE TREATMENT OF OBESITY. MIDWEST DRUG COMPANY, INC., Fort Wayne, Ind.
Filed September 20, 1933. Serial No. 341,732. PUBLISHED NOVEMBER 21, 1933. Class 6.

309,860. IRISH COBBLERS, TRIUMPS, AND RED BLISS TABLE STOCK POTATOES. CHARLES F. COWELL, Washington, N. C.
Filed September 22, 1933. Serial No. 341,788. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,861. SUBSTANCE FOR CASE-HARDENING METALS. WM. BUCHANAN, doing business as William Buchanan Company, Cincinnati, Ohio.
Filed September 20, 1933. Serial No. 341,722. PUBLISHED NOVEMBER 28, 1933. Class 6.

309,862. CAKE FLOUR, PANCAKE FLOUR, BISCUIT FLOUR. THE COLORADO MILLING & ELEVATOR CO., Denver, Colo.
Filed September 20, 1933. Serial No. 341,723. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,863. LAXATIVE PREPARATION. OTIS E. GLIDDEN doing business as Otis E. Glidden & Co., Evanston, Ill.
Filed September 28, 1933. Serial No. 341,957. PUBLISHED NOVEMBER 21, 1933. Class 6.

309,864. PADLOCKS. W. T. GRANT COMPANY, New York, N. Y.
Filed September 28, 1933. Serial No. 341,959. PUBLISHED NOVEMBER 28, 1933. Class 25.

309,865. NONALCOHOLIC, MALTLESS FRUIT JUICES SOLD AS SOFT DRINKS. STE PIERRE SMIRNOFF FLS, INCORPORATED, New York, N. Y.
Filed September 27, 1933. Serial No. 341,937. PUBLISHED NOVEMBER 28, 1933. Class 45.

309,866. WOVEN FLOOR RUGS. BLOOMINGDALE BROS., INC., New York, N. Y.
Filed September 28, 1933. Serial No. 341,948. PUBLISHED NOVEMBER 21, 1933. Class 42.

309,867. LAGER BEER. THE OLD MUNICH BREWING COMPANY, Cincinnati, Ohio.
Filed September 27, 1933. Serial No. 341,931. PUBLISHED NOVEMBER 28, 1933. Class 48.

309,868. DISH, FLOOR, DUST, AND POLISHING CLOTHS. JOHN RITZENTHALER, New York, N. Y.
Filed September 27, 1933. Serial No. 341,933. PUBLISHED NOVEMBER 28, 1933. Class 29.

309,869. RAYON AND COTTON GOODS IN THE PIECE. CROWN FABRICS CORPORATION, New York, N. Y.
Filed September 27, 1933. Serial No. 341,914. PUBLISHED NOVEMBER 28, 1933. Class 42.

309,870. CLEANSING PREPARATION FOR GENERAL HOUSEHOLD AND LAUNDRY USE. FOUNDERS PAINT CO., INC., Milwaukee, Wis.
Filed September 27, 1933. Serial No. 341,921. PUBLISHED NOVEMBER 21, 1933. Class 4.

309,871. ANTI-FREEZE PREPARATION. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del.
Filed September 26, 1933. Serial No. 341,905. PUBLISHED NOVEMBER 28, 1933. Class 6.

309,872. FLAT PAINTS, GLOSS PAINTS, ENAMEL PAINTS, CONCRETE PAINTS, STIPPLING PAINTS, COMBING PAINTS, COLORS IN OIL, VARNISHES AND WATER PAINTS. CAMEL LEAD COLOR & CHEMICAL PRODUCTS MFG. CORP., Brooklyn, N. Y.
Filed September 27, 1933. Serial No. 341,912. PUBLISHED NOVEMBER 21, 1933. Class 16.

309,873. SPRAY OILS USED FOR INSECTICIDAL AND FUNGICIDAL PURPOSES. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed September 25, 1933. Serial No. 341,880. PUBLISHED NOVEMBER 21, 1933. Class 6.

309,874. HAIR POMADE. ROY B. BROWN, doing business as Crown of Youth Co., Pensacola, Fla.
Filed September 26, 1933. Serial No. 341,892. PUBLISHED NOVEMBER 21, 1933. Class 6.

309,875. WHEAT FLOUR. W. W. POLLOCK MILLING & ELEVATOR COMPANY, Mexico, Mo.
Filed September 25, 1933. Serial No. 341,873. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,876. CANDY BARS. SPERRY CANDY COMPANY, Milwaukee, Wis.
Filed September 25, 1933. Serial No. 341,878. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,877. CHEESE. KRAFT-PHENIX CHEESE CORPORATION, Chicago, Ill.
Filed September 25, 1933. Serial No. 341,867. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,878. PRINTING AND WRITING PAPER COMMONLY EMPLOYED FOR PRINTING AND WRITING PURPOSES. MARSHALL AND BRUCE COMPANY, Nashville, Tenn.
Filed September 25, 1933. Serial No. 341,871. PUBLISHED NOVEMBER 21, 1933. Class 37.

309,879. MEN'S AND BOYS' SUITS. BAKER CLOTHES, INC., Philadelphia, Pa.
Filed September 21, 1933. Serial No. 341,820. PUBLISHED NOVEMBER 21, 1933. Class 39.

309,880. PREPARATION FOR THE TREATMENT OF COUGHS, COLDS, BRONCHITIS, ETC. SIDNEY W. LOCKWOOD, Bayonne, N. J.
Filed September 23, 1933. Serial No. 341,838. PUBLISHED NOVEMBER 28, 1933. Class 6.

309,881. HOSIERY. NATIONAL SILK HOSIERY MILLS, INC., Indianapolis, Ind.
Filed September 22, 1933. Serial No. 341,800. PUBLISHED NOVEMBER 21, 1933. Class 39.

309,882. WOOLEN AND COTTON FABRICS IN THE PIECE. PROISY TEXTILE CORPORATION, New York, N. Y.
Filed September 22, 1933. Serial No. 341,803. PUBLISHED NOVEMBER 21, 1933. Class 42.

309,883. LEAD PENCILS. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y.
Filed October 14, 1933. Serial No. 342,470. PUBLISHED NOVEMBER 28, 1933. Class 37.

309,884. WINES. JACOB REICHER, Baltimore, Md.
Filed October 14, 1933. Serial No. 342,492. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,885. CLOSURE CAPS FOR BOTTLES AND JARS. THE CLOSURE SERVICE COMPANY, Toledo, Ohio.
Filed October 13, 1933. Serial No. 342,425. PUBLISHED NOVEMBER 28, 1933. Class 50.

309,886. ALUMINUM SAND MOLD AND PERMANENT MOLD CASTINGS, ALUMINUM BILLETS AND INGOTS, ALUMINUM FORGINGS AND EXTRUDED SHAPES, ALUMINUM FOIL AND SHEET, GRANULATED AND POWDERED ALUMINUM, AND ALUMINUM SOLDER. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa.
Filed October 14, 1933. Serial No. 342,461. PUBLISHED NOVEMBER 28, 1933. Class 14.

309,887. AUTOMOBILE ANTI-FREEZE COMPOSITIONS. NATIONAL INDUSTRIAL PRODUCTS CO., New York, N. Y.
Filed October 12, 1933. Serial No. 342,399. PUBLISHED NOVEMBER 28, 1933. Class 6.

309,888. PREPARATIONS FOR THE TREATMENT OF PULMONARY AFFECTIONS. E. R. SQUIBB & SONS, New York, N. Y.
Filed October 12, 1933. Serial No. 342,409. PUBLISHED NOVEMBER 21, 1933. Class 6.

309,889. PAINTS, WHETHER DRY, PASTE OR READY MIXED, AND PAINT PIGMENTS. TITANIUM PIGMENT COMPANY, INC., New York, N. Y.
Filed October 10, 1933. Serial No. 342,326. PUBLISHED NOVEMBER 28, 1933. Class 16.

309,890. COAL. JOSEPH W. DYKSTRA, doing business as J. W. Dykstra & Company, Detroit, Mich.
Filed October 11, 1933. Serial No. 342,343. PUBLISHED NOVEMBER 28, 1933. Class 1.

309,891. CALF LEATHER. AMERICAN HIDE AND LEATHER COMPANY, Boston, Mass.
Filed October 10, 1933. Serial No. 342,308. PUBLISHED NOVEMBER 28, 1933. Class 1.

309,892. RABBIT SKINS. THE FENRAB COMPANY, INC., New York, N. Y.
Filed October 10, 1933. Serial No. 342,311. PUBLISHED NOVEMBER 28, 1933. Class 1.

309,893. YARNS OF CELLULOSE. COURTAULDS, LIMITED, London, England.
Filed October 9, 1933. Serial No. 342,261. PUBLISHED NOVEMBER 28, 1933. Class 43.

309,894. FRESH VEGETABLES. E. H. SPIEGL, Salinas, Calif.
Filed October 9, 1933. Serial No. 342,291. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,895. HOSIERY. M. L. VICTORIUS & CO., INC., New York, N. Y.
Filed October 7, 1933. Serial No. 342,246. PUBLISHED NOVEMBER 21, 1933. Class 39.

309,896. YARNS OF CELLULOSE. COURTAULDS, LIMITED, London, England.
Filed October 9, 1933. Serial No. 342,258. PUBLISHED NOVEMBER 21, 1933. Class 43.

309,897. GENERAL HOUSEHOLD CLEANSER. SILVER SUDS COMPANY, Philadelphia, Pa.
Filed October 7, 1933. Serial No. 342,241. PUBLISHED NOVEMBER 21, 1933. CLASS 4.

309,898. WINES. SOUTHARD & CO., LIMITED, London, England.
Filed October 7, 1933. Serial No. 342,244. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,899. POLISHING AND CLEANING PREPARATION FOR AUTOMOBILES AND FURNITURE AND THE LIKE. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del.
Filed October 6, 1933. Serial No. 342,208. PUBLISHED NOVEMBER 21, 1933. Class 16.

309,900. DRY CLEANING PREPARATION. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del.
Filed October 6, 1933. Serial No. 342,209. PUBLISHED NOVEMBER 28, 1933. Class 4.

309,901. COKE. THE KOPPERS COMPANY, Pittsburgh, Pa.; now by change of name The Koppers Company of Delaware.
Filed June 19, 1931. Serial No. 316,040. PUBLISHED NOVEMBER 28, 1933. Class 1.

309,902. TIRE ENAMEL, VARNISH, PAINT SOLVENT OR REMOVER, TIRE PAINT, FLOOR WAX, LACQUER, PAINT ENAMEL, TOUCH-UP ENAMEL, PREPARED PAINT, FURNITURE POLISH, AND AUTO-BODY POLISH. THE TEXAS COMPANY, New York, N. Y.
Filed July 12, 1933. Serial No. 339,690. PUBLISHED NOVEMBER 21, 1933. Class 16.

309,903. OLIVES. HARRY SINGER, doing business as San Jose Packing Co., Brooklyn, N. Y.
Filed July 20, 1933. Serial No. 339,047. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,904. COFFEES. COOK COFFEE COMPANY, Detroit, Mich.
Filed July 8, 1933. Serial No. 339,593. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,905. WINDSHIELD WIPER ASSEMBLIES, INCLUDING MOTORS, ARMS AND BLADES, PEDAL CAPS, AUTO REAR-VIEW MIRRORS, RADIATOR CAPS, GAS-TANK CAPS, WINTER FRONTS, AND CAR HEATERS (HOT-AIR TYPE). THE TEXAS COMPANY, New York, N. Y.
Filed July 10, 1933. Serial No. 339,611. PUBLISHED NOVEMBER 28, 1933. Class 19.

309,906. LOTION FOR SOFTENING THE SKIN AND FOR CHAPPING, WIND, AND SUNBURN. MAME E. STEINHILBER, Philadelphia, Pa.
Filed June 29, 1933. Serial No. 339,369. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,907. MEDICINAL PREPARATIONS, PARTICULARLY ANTI-RACHITIC PREPARATIONS CONTAINING VITAMIN D. SUN-A-SURED, INC., Minneapolis, Minn.
Filed July 3, 1933. Serial No. 339,479. PUBLISHED OCTOBER 3, 1933. Class 6.

309,908. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. PSCHORRBRÄU AKTIENGESELLSCHAFT MUNCHEN, Munich, Germany.
Filed June 28, 1933. Serial No. 339,328. PUBLISHED NOVEMBER 28, 1933. Class 48.

309,909. EMULSIVE SOLVENT CLEANER. E. V. KYSER, doing business as The Tidy Company, Rocky Mount, N. C.
Filed June 24, 1933. Serial No. 339,335. PUBLISHED NOVEMBER 28, 1933. Class 4.

309,910. SOLUTION FOR USE IN CHROMIUM PLATING. ROBERT C. OVENDALE, Kingston, Pa.
Filed June 22, 1933. Serial No. 339,112. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,911. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. PSCHORRBRÄU AKTIENGESELLSCHAFT MUNCHEN, Munich, Germany.
Filed June 28, 1933. Serial No. 339,327. PUBLISHED NOVEMBER 28, 1933. Class 48.

309,912. FRESH VEGETABLES. S. RIANDA, doing business as S. Rianda Packing Co., Salinas, Calif.
Filed June 19, 1933. Serial No. 339,000. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,913. CHIANTI WINES. ILARIO & LEOPOLDO RUFFINO, Brescia, Italy.
Filed June 20, 1933. Serial No. 339,033. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,914. WALL COATINGS IN THE NATURE OF PAINT. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed June 9, 1933. Serial No. 338,705. PUBLISHED NOVEMBER 21, 1933. Class 16.

309,915. HERB TEA USED IN THE TREATMENT OF CONSTIPATION. MAX SILVERMAN, Brooklyn, N. Y.
Filed June 15, 1933. Serial No. 338,891. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,916. MEDICINAL COMPOUND INDICATED AS AN ANTISPASMODIC, PRINCIPALLY IN THE TREATMENT OF SPASTIC CONDITIONS OF THE DIGESTIVE TRACT. E. BILHUBER, INC., Jersey City, N. J.
Filed June 5, 1933. Serial No. 338,510. PUBLISHED NOVEMBER 21, 1933. Class 6.

309,917. OINTMENT TO BE APPLIED TO DENTAL PLATES. JAMES ROBERT MACDONALD, doing business as Plateze Chemical Co., Philadelphia, Pa.
Filed June 6, 1933. Serial No. 338,590. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,918. ORGANIC IRON TONIC WHICH IS HELPFUL FOR INCREASING HÆMOGLOBIN. CHARLES ROGERS, New York, N. Y.
Filed May 26, 1933. Serial No. 338,261. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,919. ORGANIC IRON TONIC WHICH IS HELPFUL FOR INCREASING HÆMOGLOBIN. CHARLES ROGERS, New York, N. Y.
Filed May 26, 1933. Serial No. 338,262. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,920. SOAP. CARMAN & CO., INC., New York, N. Y.
Filed May 11, 1933. Serial No. 337,688. PUBLISHED NOVEMBER 28, 1933. Class 4.

309,921. COSMETIC PREPARATIONS. GENESEE COSMETICS CO., New York, N. Y.
Filed May 19, 1933. Serial No. 338,000. PUBLISHED NOVEMBER 28, 1933. Class 6.

309,922. BAY RUM, CAMPHORATED OIL, CASCARA, ETC. ROBERT BRUCE EATON, Des Moines, Iowa.
Filed May 1, 1933. Serial No. 337,333. PUBLISHED OCTOBER 3, 1933. Class 6.

309,923. BLANKETS. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y.
Filed May 4, 1933. Serial No. 337,469. PUBLISHED NOVEMBER 28, 1933. Class 42.

309,924. PREPARATION USED EXTERNALLY FOR THE RELIEF OF SIMPLE HEADACHES, CHEST COLDS, ACHING JOINTS, LUMBAGO, SPRAINS, SORE MUSCLES, ATHLETE'S FOOT, INSECT BITES, AND SUNBURN, AND AS AN INHALANT FOR NASAL CONGESTION, HEAD COLDS, AND HICCOUGHS. MINIT-RUB CORPORATION, St. Louis, Mo.
Filed April 11, 1933. Serial No. 336,657. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,925. RAYON YARNS. AMERICAN ENKA CORPORATION, Asheville, N. C.
Filed April 20, 1933. Serial No. 336,973. PUBLISHED NOVEMBER 14, 1933. Class 43.

309,926. HOSIERY FOR MEN, WOMEN, AND CHILDREN. OTTO KUNZE, Oberlungwitz, Germany.
Filed June 7, 1932. Serial No. 327,798. PUBLISHED NOVEMBER 21, 1933. Class 39.

309,927. DENTAL CREAM. SILICA PRODUCTS CORPORATION, New York, N. Y.
Filed October 27, 1932. Serial No. 331,627. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,928. BEANS COOKED AND OTHERWISE PREPARED AS BY CANNING, AND FLOUR MADE FROM BEANS. HARSHAW ESSENTIAL FOODS, INC., Cleveland, Ohio.
Filed September 12, 1931. Serial No. 318,985. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,929. CUSHIONS FOR SHOE VAMPS. KATHERINE B. SUNDERLAND, Danbury, Conn.
Filed November 23, 1931. Serial No. 321,449. PUBLISHED FEBRUARY 21, 1933. Class 40.

309,930. OINTMENT SOLD FOR THE TREATMENT OF SKIN DISEASES SUCH AS ECZEMA, TETTER, IMPETIGO, SALT RHEUM, ITCH, ETC. DESDEMONA P. HALE, doing business as X-Zee Products, Fort Wayne, Ind.
Filed August 22, 1933. Serial No. 340,939. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,931. ETHYL ALCOHOL IN ANHYDROUS FORM FOR ANTI-FREEZE PURPOSES. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y.
Filed August 24, 1933. Serial No. 340,997. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,932. PERMANENT, WHITE, WATERPROOF ADHESIVE CEMENT IN THE FORM OF A PLASTIC COMPOSITION. WEBB PRODUCTS CO., INC., San Bernardino, Calif.
Filed August 21, 1933. Serial No. 340,905. PUBLISHED NOVEMBER 28, 1933. Class 5.

309,933. WOMEN'S AND MISSES' GYMNASIUM, ATHLETIC, AND CAMP CLOTHING—NAMELY, GYM SUITS, BLOUSES, MIDDIES, BLOOMERS, SHORTS, COATS, SKIRTS, DRESSES, PLAY SUITS, AND ROMPERS. BLOUGH MANUFACTURING CO., INC., Harrisburg, Pa.
Filed August 22, 1933. Serial No. 340,912. PUBLISHED NOVEMBER 21, 1933. Class 39.

309,934. PERMANENT WAVING SOLUTION. LE ROY GORDON BEAUTY SALON, INC., Long Beach, Calif.
Filed August 21, 1933. Serial No. 340,884. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,935. PERMANENT WAVING SOLUTION. LE ROY GORDON BEAUTY SALON, INC., Long Beach, Calif.
Filed August 21, 1933. Serial No. 340,885. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,936. PERMANENT WAVING SOLUTION, NAIL POLISH. LE ROY GORDON BEAUTY SALON, INC., Long Beach, Calif.
Filed August 21, 1933. Serial No. 340,882. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,937. PERMANENT WAVING SOLUTION. LE ROY GORDON BEAUTY SALON, INC., Long Beach, Calif.
Filed August 21, 1933. Serial No. 340,883. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,938. MEDICINAL CONCENTRATE FOR MAKING LAXATIVE WATER. CRAZY WATER HOTEL COMPANY, Mineral Wells, Tex.
Filed August 21, 1933. Serial No. 340,867. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,939. SOAPS. THE J. T. ROBERTSON COMPANY, Syracuse, N. Y.
Filed April 5, 1933. Serial No. 336,456. PUBLISHED NOVEMBER 21, 1933. Class 4.

309,940. STEEL WOOL. EAGLE STEEL WOOL COMPANY, Chicago, Ill.
Filed March 22, 1933. Serial No. 336,104. PUBLISHED NOVEMBER 21, 1933. Class 4.

309,941. TEXTILE RUGS. MARSHALL FIELD MILLS CORPORATION, Philadelphia, Pa.
Filed March 27, 1933. Serial No. 336,124. PUBLISHED NOVEMBER 28, 1933. Class 42.

309,942. SPORT GARMENTS—NAMELY, DRESSES AND SWEATERS OF KNITTED FABRIC FOR WOMEN AND MISSES. GOTHAM KNITTING MILLS, INC., New York, N. Y.
Filed March 13, 1933. Serial No. 335,614. PUBLISHED NOVEMBER 21, 1933. Class 39.

309,943. MANICURE PREPARATIONS, ETC. MILLER PRODUCTS COMPANY, Rochester, N. Y.
Filed March 25, 1933. Serial No. 336,101. PUBLISHED NOVEMBER 28, 1933. Class 6.

309,944. PAPER CANS FOR ICE CREAM, ETC. RUSSELL BOX COMPANY, Medford, Mass.
Filed January 31, 1933. Serial No. 334,500. PUBLISHED NOVEMBER 28, 1933. Class 2.

309,945. CONCENTRATE OF MINERAL SALT FOR USE IN A BATH. SARATOGA SPRINGS HYDRO-THERAPY LABORATORIES, INC., Saratoga Springs, N. Y.
Filed February 6, 1933. Serial No. 334,690. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,946. CORNED BEEF BRISKETS. D. HORWITZ & Co., INC., Chicago, Ill.
Filed January 18, 1933. Serial No. 334,059. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,947. WOMEN'S UNDERGARMENTS, SPECIFICALLY BLOOMERS. WINGET KICKERNICK COMPANY, Minneapolis, Minn.
Filed January 20, 1933. Serial No. 334,171. PUBLISHED NOVEMBER 28, 1933. Class 39.

309,948. LEATHER SHOES. WEYENBERG SHOE MFG. CO., Milwaukee, Wis.
Filed December 16, 1932. Serial No. 333,133. PUBLISHED NOVEMBER 21, 1933. Class 39.

309,949. NATURAL TREES, SHRUBS, AND PLANTS. TITUS NURSERY COMPANY, Waynesboro, Va., and Baltimore, Md.
Filed December 20, 1932. Serial No. 333,242. PUBLISHED NOVEMBER 21, 1933. Class 1.

309,950. FRESH CITRUS FRUITS. LINDSAY DISTRICT ORANGE COMPANY, Lindsay, Calif.
Filed November 28, 1932. Serial No. 332,534. PUBLISHED JUNE 27, 1933. Class 46.

309,951. WATERPROOFING PREPARATION FOR THE IGNITION SYSTEMS OF INTERNAL COMBUSTION ENGINES. FAN-VAC MANUFACTURING COMPANY, Wichita, Kans.
Filed December 5, 1932. Serial No. 332,766. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,952. COAL. PARIS PURITY COAL COMPANY, Paris, Ark.
Filed August 28, 1933. Serial No. 341,098. PUBLISHED NOVEMBER 28, 1933. Class 1.

309,953. NOODLES. LEE AND LEE COMPANY, New York, N. Y.
Filed August 29, 1933. Serial No. 341,128. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,954. WINDSHIELD WIPER BLADES. SHELL OIL COMPANY, San Francisco, Calif.
Filed October 21, 1933. Serial No. 342,768. PUBLISHED NOVEMBER 28, 1933. Class 19.

309,955. MALT CEREAL BEVERAGE HAVING NOT OVER THE LEGAL ALCOHOLIC CONTENT. MAIER BREWING COMPANY, INC., Los Angeles, Calif.
Filed August 28, 1933. Serial No. 341,093. PUBLISHED NOVEMBER 21, 1933. Class 48.

309,956. CLOCKS. THE E. INGRAHAM COMPANY, Bristol, Conn.
Filed October 21, 1933. Serial No. 342,757. PUBLISHED NOVEMBER 28, 1933. Class 27.

309,957. WINES. OLD DUTCH MILLS, INC., New York, N. Y.
Filed October 21, 1933. Serial No. 342,764. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,958. HOSIERY. E. B. FERDINAND CO., INC., New York, N. Y.
Filed October 21, 1933. Serial No. 342,750. PUBLISHED NOVEMBER 28, 1933. Class 39.

309,959. CLOCKS. THE E. INGRAHAM COMPANY, Bristol, Conn.
Filed October 21, 1933. Serial No. 342,755. PUBLISHED NOVEMBER 28, 1933. Class 27.

309,960. LADIES' AND MEN'S HOSIERY. H. J. GROSSMAN, Mount Carmel, Pa.
Filed October 20, 1933. Serial No. 342,696. PUBLISHED NOVEMBER 28, 1933. Class 39.

309,961. WINES. ETABLISSEMENTS E. BIGEON INC., New York, N. Y.
Filed October 21, 1933. Serial No. 342,748. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,962. CLEANSER FOR THE HANDS, BATH TUBS, ETC. KONDNER PRODUCTS COMPANY, Baltimore, Md.
Filed October 19, 1933. Serial No. 342,653. PUBLISHED NOVEMBER 28, 1933. Class 4.

309,963. CHAMPAGNE WINES. Jos. KRUG, doing business as Krug & Co., Reims, France.
Filed October 19, 1933. Serial No. 342,655. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,964. HOSIERY. BANGOR HOSIERY CO., Bangor, Pa.
Filed October 18, 1933. Serial No. 342,609. PUBLISHED NOVEMBER 28, 1933. Class 39.

309,965. WINES. CHARLES KINLOCH & Co., LIMITED, London, England.
Filed October 19, 1933. Serial No. 342,651. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,966. WRITING IMPLEMENTS, PARTICULARLY PENS. AUTOPOINT COMPANY, Chicago, Ill.
Filed October 17, 1933. Serial No. 342,567. PUBLISHED NOVEMBER 28, 1933. Class 37.

309,967. HOSIERY. HOLLYWOOD HOSE, INC., New York, N. Y.
Filed October 17, 1933. Serial No. 342,584. PUBLISHED NOVEMBER 28, 1933. Class 39.

309,968. GREASE AND REFUSE SEPARATORS, CATCH BASINS, DRUM TRAPS, GREASE TRAPS, DEEP SEAL CONTINUOUS PIPE TRAPS AND FLOOR DRAINS. COMPOUND INJECTOR & SPECIALTY CO., Chicago, Ill.
Filed October 16, 1933. Serial No. 342,513. PUBLISHED NOVEMBER 28, 1933. Class 13.

309,969. LEAD PENCILS. NEW ENGLAND SALES CORPORATION, Bridgeport, Conn.
Filed October 16, 1933. Serial No. 342,545. PUBLISHED NOVEMBER 28, 1933. Class 37.

309,970. WINES. LOUIS RAVENÉ, Berlin, Germany.
Filed August 31, 1933. Serial No. 341,212. PUBLISHED NOVEMBER 28, 1933. Class 47.

309,971. HAIR-WAVING LOTIONS. ZOTOS CORPORATION, New York, N. Y.
Filed October 14, 1933. Serial No. 342,508. PUBLISHED NOVEMBER 28, 1933. Class 6.

309,972. FACE POWDER. JAMES L. YOUNGHUSBAND, Chicago, Ill.
Filed September 11, 1933. Serial No. 341,507. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,973. LIP STICK. JAMES L. YOUNGHUSBAND, Chicago, Ill.
Filed September 11, 1933. Serial No. 341,508. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,974. CHEMICAL RUST PREVENTATIVE AND CLEANER FOR AUTOMOBILE RADIATORS. J. MILLER SMITH, doing business as Kem-Rite Laboratories, Detroit, Mich.
Filed September 11, 1933. Serial No. 341,501. PUBLISHED NOVEMBER 21, 1933. Class 6.

309,975. VITAMIN CONCENTRATE FOR USE IN THE TREATMENT OF VITAMIN DEFICIENCY. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed September 11, 1933. Serial No. 341,504. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,976. SHIPS' PROPELLERS. THE MANGANESE BRONZE & BRASS COMPANY, LIMITED, London, England.
Filed September 11, 1933. Serial No. 341,484. PUBLISHED NOVEMBER 28, 1933. Class 19.

309,977. CANNED TOMATO SAUCE. ORANGE COUNTY CANNERS, INC., Los Angeles and Fullerton, Calif.
Filed September 11, 1933. Serial No. 341,493. PUBLISHED NOVEMBER 28, 1933. Class 46.

309,978. CHEMICALLY TREATED CLOTH FOR CLEANING DISHES, GLASSWARE, ETC. THE EM-CEE CHEMICAL CLOTH CO., Annapolis, Md.
Filed September 11, 1933. Serial No. 341,479. PUBLISHED NOVEMBER 28, 1933. Class 4.

309,979. INSECTICIDE. JONES PRODUCTS CO., Chicago, Ill.
Filed September 11, 1933. Serial No. 341,481. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,980. CHEMICAL COMPOUND—NAMELY, AN INHIBITOR FOR MURIATIC ACID. TEXAS CHEMICAL COMPANY, Houston, Tex.
Filed September 8, 1933. Serial No. 341,444. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,981. TEXTILE FABRICS—NAMELY, SILK PIECE GOODS. ATLAS MILLS, INC., New York, N. Y.
Filed September 9, 1933. Serial No. 341,449. PUBLISHED NOVEMBER 21, 1933. Class 42.

309,982. ORGANIC PREPARATION FROM THE SPLEEN AND THE RETICULAR-END OTHELIAL SYSTEM FOR USE AS A CANCER PROPHYLACTIC AND IN THE TREATMENT OF STOMACH AND INTESTINAL ULCERS, AND AS A PROPHYLACTIC DURING TREATMENT WITH ULTRA-VIOLET RAYS. MYRO PATERMANN, doing business as Firma. Gebr. Patermann, Teltow, near Berlin, Germany.
Filed September 7, 1933. Serial No. 341,405. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,983. SCIENTIFIC PREPARATION RECOMMENDED FOR THE TREATMENT OF ULCERS OF THE STOMACH, ACIDOSIS, GASTRITIS, INDIGESTION, SOUR STOMACH, DYSPEPSIA, AND SIMILAR STOMACH AILMENTS, AND AS A GENERAL TONIC AND APPETIZER. THE TAY-PAY COMPANY, Blue Island, Ill.
Filed September 7, 1933. Serial No. 341,409. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,984. MEN'S AND BOYS' OUTER WEARING APPAREL CONSISTING OF COATS, PANTS, KNICKERBOCKERS, VESTS, AND ROBES, AND WOMEN'S OUTER WEARING APPAREL CONSISTING OF ROBES, DRESSES, SUITS, COATS, AND SKIRTS. CHEROKEE SPINNING COMPANY, Knoxville, Tenn.
Filed September 7, 1933. Serial No. 341,395. PUBLISHED NOVEMBER 21, 1933. Class 39.

309,985. BILE SALTS COMPOUND TABLET FOR THE TREATMENT OF CONSTIPATION AND INTESTINAL TOXIC CONDITION. THORNTON M. FINCHER, doing business as Bila-Sol Co., Atlanta, Ga.
Filed September 7, 1933. Serial No. 341,399. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,986. NOODLES IN ALPHABET FORM, BEANS, SHELLED LENTILS, ETC. BOEGER BROS. PRODUCTS COMPANY, St. Louis, Mo.
Filed September 2, 1933. Serial No. 341,271. PUBLISHED NOVEMBER 21, 1933. Class 46.

309,987. FACE POWDER. POND'S EXTRACT COMPANY, New York, N. Y.
Filed September 2, 1933. Serial No. 341,303. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,988. PHARMACEUTICAL PRODUCT FOR TREATMENT OF PROSTATE GLAND TROUBLES AND FOR SEXUAL REJUVENATION. PHILLIP W. WILSON, doing business as Pros-Tone Research Laboratories, Los Angeles, Calif.
Filed September 2, 1933. Serial No. 341,313. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,989. WORSTED GOODS IN THE PIECE. NATIONAL DIXIE MILLS, New York, N. Y.
Filed September 1, 1933. Serial No. 341,253. PUBLISHED NOVEMBER 21, 1933. Class 42.

309,990. LIQUID SKIN CLEANSER FOR CLEANSING THE FACE AND FOR USE IN ADMINISTERING FACIAL MASSAGES AND FACIAL TREATMENTS. MARGARET STUBBS, San Antonio, Tex.
Filed September 1, 1933. Serial No. 341,262. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,991. ACIDIFYING SUBSTANCES USEFUL IN THERAPEUTICS. ABBOTT LABORATORIES, North Chicago, Ill.
Filed September 1, 1933. Serial No. 341,226. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,992. MEDICINAL PREPARATIONS FOR TREATMENT OF THE NOSE AND THROAT. FINEL DRUG COMPANY, Flushing, N. Y.
Filed September 1, 1933. Serial No. 341,244. PUBLISHED NOVEMBER 7, 1933. Class 6.

309,993. PREPARATION FOR HAY FEVER. BARNES PHARMACAL CO., Newark, N. J.
Filed September 20, 1933. Serial No. 341,721. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,994. LADIES' HATS. VIBO COMPANY INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,703. PUBLISHED NOVEMBER 28, 1933. Class 39.

369,995. DRY CLEANING FLUIDS. D. BLUM & CO. INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,712. PUBLISHED NOVEMBER 28, 1933. Class 4.

309,996. LIQUID DEODORANT. FEMININE PRODUCTS, INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,684. PUBLISHED NOVEMBER 14, 1933. Class 6.

309,997. TALCUM IN CREAM FORM. ALLEN E. ROGERS, doing business as Allen E. Rogers Laboratories, Brooklyn, N. Y.
Filed September 19, 1933. Serial No. 341,695. PUBLISHED NOVEMBER 28, 1933. Class 6.

309,998. LEATHER SHOES. MORRIS SHOE COMPANY, INC., New York, N. Y.
Filed September 18, 1933. Serial No. 341,660. PUBLISHED NOVEMBER 28, 1933. Class 39.

309,999. PORK. JOHN P. SQUIRE & COMPANY, East Cambridge, Mass.
Filed September 16, 1933. Serial No. 341,677. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,000. CHEMICAL CLEANSER FOR BEER COILS. INDUSTRIAL CHEMICAL PRODUCTS CO., Detroit, Mich.
Filed September 18, 1933. Serial No. 341,655. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,001. MIXED FEEDS FOR POULTRY AND LIVE STOCK, HOMINY FEEDS FOR LIVE STOCK, CORN MEAL, GREEN MEAL, PEARL MEAL, DEVELOPING MASH FOR BABY CHICKS, RABBIT FEED AND PIGEON FEED. JOSEY-MILLER COMPANY, INC., Beaumont, Tex.
Filed September 18, 1933. Serial No. 341,657. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,002. PAINT PIGMENTS. KREBS PIGMENT & COLOR CORPORATION, Newark, N. J.
Filed September 16, 1933. Serial No. 341,632. PUBLISHED NOVEMBER 28, 1933. Class 16.

310,003. PAINT PIGMENTS. KREBS PIGMENT & COLOR CORPORATION, Newark, N. J.
Filed September 16, 1933. Serial No. 341,633. PUBLISHED NOVEMBER 28, 1933. Class 16.

310,004. PAINT PIGMENTS. KREBS PIGMENT & COLOR CORPORATION, Newark, N. J.
Filed September 15, 1933. Serial No. 341,601. PUBLISHED NOVEMBER 28, 1933. Class 16.

310,005. PAINT PIGMENTS. KREBS PIGMENT & COLOR CORPORATION, Newark, N. J.
Filed September 15, 1933. Serial No. 341,602. PUBLISHED NOVEMBER 28, 1933. Class 16.

310,006. POULTICES AND TABLETS FOR THE RELIEF OF PAIN AND COLDS. POLORIS COMPANY, INC., New York, N. Y.
Filed September 14, 1933. Serial No. 341,588. PUBLISHED NOVEMBER 14, 1933. Class 6.

310,007. MEDICINAL PREPARATION FOR THE TREATMENT OF HYPERACIDITY, ULCERS OF THE STOMACH, AND SIMILAR AILMENTS. SCHERRING CORPORATION, New York, N. Y.
Filed September 14, 1933. Serial No. 341,591. PUBLISHED NOVEMBER 14, 1933. Class 6.

310,008. NATURAL DEHYDRATED KELP IN TABLET FORM. JOHN LEE CLARKE, doing business as Seavigor Company, New York, N. Y.
Filed September 13, 1933. Serial No. 341,543. PUBLISHED NOVEMBER 7, 1933. Class 6.

310,009. PREPARATION FOR TREATMENT OF SUGAR CONDITIONS IN THE HUMAN BODY. LOUISE M. FAUGHT, Brooklyn, N. Y.
Filed September 14, 1933. Serial No. 341,574. PUBLISHED NOVEMBER 14 1933. Class 6.

310,010. ORGANIC SOLVENTS FOR NITRO-COTTONS IN THE MANUFACTURE OF LACQUERS AND KINDRED PRODUCTS. ALSO ORGANIC SOLVENTS FOR GUMS AND OTHER ORGANIC MATERIALS. U. S. INDUSTRIAL CHEMICAL CO. INCORPORATED, Baltimore, Md., and New York, N. Y.
Filed September 12, 1933. Serial No. 341,513. PUBLISHED NOVEMBER 7, 1933. Class 6.

310,011. CHEMICAL COMPOUNDS HAVING BACTERICIDAL PROPERTIES. PFALTZ & BAUER, INC., New York, N. Y.
Filed September 12, 1933. Serial No. 341,516. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,012. MEDICINE FOR BLADDER AND KIDNEY DISORDERS. THE KNOX COMPANY, Kansas City, Mo.
Filed August 25, 1933. Serial No. 341,024. PUBLISHED NOVEMBER 14, 1933. Class 6.

310,013. PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT IRRITATION BETWEEN THE TOES AND FOUL SMELLING AND SWEATING FEET. ROBERT A. DEMERANVILLE, Mobile, Ala.
Filed August 28, 1933. Serial No. 341,080. PUBLISHED NOVEMBER 7, 1933. Class 6.

310,014. PAPER AND PAPER BOARD CARTONS. C. F. HATCH COMPANY, Lowell, Mass.
Filed October 6, 1933. Serial No. 342,183. PUBLISHED NOVEMBER 28, 1933. Class 2.

310,015. PREPARATION FOR THE TREATMENT OF PYORRHEA, TRENCH MOUTH, TONSILITIS, ETC. BUSH-MYERS, Fiborn Quarry, Mich.
Filed August 24, 1933. Serial No. 341,007. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,016. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. CENTRAL MENS STORES, INC., doing business as Sarnoff-Irving, New York, N. Y.
Filed October 5, 1933. Serial No. 342,152. PUBLISHED NOVEMBER 21, 1933. Class 39.

310,017. HOSIERY. NELSON KNITTING COMPANY, Rockford, Ill.
Filed October 5, 1933. Serial No. 342,161. PUBLISHED NOVEMBER 21, 1933. Class 39.

310,018. LOOSE LEAF BINDERS. LOOSE LEAF SECTIONAL POST BINDERS, ETC. PEARSON-DOUGLAS COMPANY, Kansas City, Mo.
Filed October 2, 1933. Serial No. 342,077. PUBLISHED NOVEMBER 21, 1933. Class 37.

310,019. TOOTHPASTE AND DENTIFRICES. SILICA PRODUCTS CORPORATION, New York, N. Y.
Filed October 2. 1933. Serial No. 342,081. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,020. MALT BEVERAGES OF LEGALIZED ALCOHOLIC CONTENT. FRANK FEHR BREWING CO., INCORPORATED, Louisville, Ky.
Filed October 2, 1933. Serial No. 342,071. PUBLISHED NOVEMBER 28, 1933. Class 48.

310,021. MALT BEVERAGES OF NOT MORE THAN LEGAL ALCOHOLIC CONTENT. ROBERT H. GRAUPNER, Harrisburg, Pa.
Filed October 2. 1933. Serial No. 342,072. PUBLISHED NOVEMBER 28, 1933. Class 48.

310,022. EDUCATIONAL GAME PLAYED WITH CARDS. GEORGE A. SIMON, New London, Wis.
Filed September 30, 1933. Serial No. 342,043. PUBLISHED NOVEMBER 28, 1933. Class 22.

310,023. DENTAL CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed October 2, 1933. Serial No. 342,066. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,024. MEN'S, YOUTH'S, AND BOYS' SUITS, VESTS, PANTS, KNICKERBOCKERS, TOPCOATS AND OVERCOATS. LOUIS HOLTZ AND SONS, INC., Rochester, N. Y.
Filed September 30, 1933. Serial No. 342,033. PUBLISHED NOVEMBER 21, 1933. Class 39.

310,025. HAIR TONIC. PIETRO SABATINO, New York, N. Y.
Filed September 30, 1933. Serial No. 342,042. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,026. HOSIERY. CHAS. CHIPMAN'S SONS CO. INC., New York, N. Y.
Filed September 30, 1933. Serial No. 342,027. PUBLISHED NOVEMBER 28, 1933. Class 39.

310,027. MEN'S, YOUTH'S, AND BOYS' SUITS, VESTS, PANTS, KNICKERBOCKERS, TOPCOATS, AND OVERCOATS. LOUIS HOLTZ AND SONS, INC., Rochester, N. Y.
Filed September 30, 1933. Serial No. 342,032. PUBLISHED NOVEMBER 28, 1933. Class 39.

310,028. READY MIXED PAINTS, VARNISHES, STAINS, AND PAINT ENAMELS. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed September 28, 1933. Serial No. 341,989. PUBLISHED NOVEMBER 21, 1933. Class 16.

310,029. OINTMENT FOR ATHLETE'S FOOT, RINGWORM, ETC. TO-MO-LO COMPANY, INC., Baltimore, Md.
Filed September 28, 1933. Serial No. 341,992. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,030. WINDSHIELD-WIPER BLADES. W. T. GRANT COMPANY, New York, N. Y.
Filed September 28, 1933. Serial No. 341,965. PUBLISHED NOVEMBER 28, 1933. Class 19.

310,031. GERMICIDAL SOAP. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed September 28, 1933. Serial No. 341,973. PUBLISHED NOVEMBER 21, 1933. Class 4.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

310,032. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUPERIOR FEED MILLS, Oklahoma City, Okla. Filed Nov. 20, 1933. Serial No. 343,892.

CHICK TO PULLET

For Feeds for Poultry.
Claims use since Jan. 1, 1932.

310,033. (CLASS 37. PAPER AND STATIONERY.) HILL-INDEPENDENT MFG. CO., Germantown, Philadelphia, Pa. Filed Nov. 15, 1933. Serial No. 343,681.

KOSSUTH

For Hand Stamps.
Claims use since Jan. 31, 1913.

310,034. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SALOMON & PHILLIPS, New York, N. Y., and Boston, Mass. Filed Oct. 9, 1933. Serial No. 342,304.

NORTH CAPE SEAL

For Sealskin Leather—Tanned and Grained on Steel Rolls or Plates.
Claims use since Apr. 6, 1932.

310,035. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEXTORA COMPANY, Indianapolis, Ind. Filed Sept. 26, 1933. Serial No. 341,894.

DUFFY'S

For Malt Syrup, Maltose Syrup, Nutted Malt Sugar, Malted Milk, and Cereal Sugar.
Claims use since June, 1925.

310,036. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) A. PH. STITZEL, INC., Louisville, Ky. Filed Oct. 2, 1933. Serial No. 342,083.

Old Mock

For Whiskies.
Claims use since 1923.

310,037. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) ASBACH & CO., AKTIENGESELLSCHAFT, Rudesheim-on-the-Rhine, Germany. Filed June 26, 1933. Serial No. 339,217.

Asbach „Uralt"

For Whisky, Brandy, Cognac, Bitters, and Spirits of Wine.
Claims use since 1907.

310,038. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FALK CORPORATION, Milwaukee, Wis. Filed July 19, 1933. Serial No. 339,892.

FALK

For Machinery—Namely, Speed Reducers, Gear Reducers, Gears, Gear Drives, Flexible Couplings, Mechanical Torque Converters, and Mechanical Backstops for Speed Reducers.
Claims use since July, 1925.

310,039. (CLASS 39. CLOTHING.) B. TOBIAS, INC., New York, N. Y. Filed Jan. 5, 1933. Serial No. 333,690.

The Cruise Mode

For Dresses for Women, Misses, and Children.
Claims use since Dec. 1, 1932.

310,040. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) UNITED ELASTIC CORPORATION, Easthampton, Mass. Filed Jan. 5, 1933. Serial No. 333,691.

KANTKUT

For Hose Supporter Buttons.
Claims use since Dec. 30, 1932.

310,041. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DAVE MENDELSOHN, New York, N. Y. Filed Dec. 10, 1932. Serial No. 332,958.

SPEEDY

For Snap Fasteners.
Claims use since Nov. 2, 1932.

310,042. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE NEW YORK PATTERN COMPANY, INC., New York, N. Y. Filed Dec. 30, 1932. Serial No. 333,524.

Hollywood

For Paper Patterns for Garments.
Claims use since Dec. 14, 1932.

310,043. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JOHN A. VICTOREEN, doing business as Victoreen Instrument Co., Cleveland, Ohio. Filed Dec. 8, 1930. Serial No. 308,759.

VICTOREEN r-METER

For an Instrument for Measuring the Strength of X-Ray Beams.
Claims use since June 30, 1930.

310,044. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GABRIEL PNEUMATIC VULCANIZER, INCORPORATED, Cleveland, Ohio. Filed Nov. 18, 1932. Serial No. 332,253.

Gabriel Rubber Inlay Welder

For Rubber Vulcanizing Machines or Apparatus.
Claims use since Oct. 25, 1932.

TRADE-MARK REGISTRATIONS RENEWED

95,352. BRAKE-LINING FOR AUTOMOBILE-BRAKES. Registered February 10, 1914. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn., a corporation of Connecticut. Renewed February 10, 1934.

97,859. TRADING-SLIPS, TAGS, LABELS, BLOTTERS, BOOK-MARKS, AND BLANK VISITING-CARDS. Registered June 23, 1914. ANNA JARVIS, Philadelphia, Pa. Renewed June 23, 1934.

LABELS

REGISTERED FEBRUARY 6, 1934

43,204.—*Title:* DH QUALITY SHOES FOR WOMEN. For Shoes. BIRD & SON, INC., East Walpole, Mass. Published December 26, 1933.

43,205.—*Title:* VAI BROS. OLD RESERVE. For Port Wine. CALIFORNIA MEDICINAL WINE CO., Los Angeles, Calif. Published November 4, 1933.

43,206.—*Title:* ANESTEX DENTUBES. For Cartridge—Vials Filled with a Local Anesthetic for all Minor and Dental Surgical Operations. DAVID CURTIS, doing business as Anestex Laboratories De-Ce Products Co. of N. Y., New York, N. Y. Published December 12, 1933.

43,207.—*Title:* OLD SETTLEMENT. For Wine. FREDONIA PRODUCTS CO. INC., Fredonia, N. Y. Published January 2, 1934.

43,208.—*Title:* SUD-Z-SOFF. For a Water Softener. THOMAS E. HUTH, doing business as Mighty Products, Columbus, Ohio. Published December 14, 1933.

43,209.—*Title:* ALNO. For Medicine in Liquid Form Used in the Treatment of Asthma. BLANCHE M. NORTHRUP, doing business as The Alno Company, Phoenix, Ariz. Published December 22, 1933.

43,210.—*Title:* CHAMPION. For Ginger Ale. PHILLIPS BROS., Baltimore, Md. Published December 16, 1933.

43,211.—*Title:* CHASE & SANBORN'S ORLOFF. For Tea. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1931.

43,212.—*Title:* SUGAR-LESS CANDY. For Sugar-Less Candy. SUGAR-LESS CANDY COMPANY, Evanston, Ill. Published January 4, 1934.

43,213.—*Title:* L'AIGLON. For a French Dry-Cleaning Preparation. WINDSON-LLOYD PRODUCTS, INC., Wilmington, Del. Published August 31, 1933.

PRINTS

REGISTERED FEBRUARY 6, 1934

14,552.—*Title:* FOR A FAST SHAVE WHIPPET DOUBLE EDGE BLADE. For Safety Razor Blades. H. J. EDWARDS, doing business as Whippet Blade Co., Boston, Mass. Published November 3, 1933.

14,553.—*Title:* HEILEMAN'S OLD STYLE LAGER. For Lager. G. HEILEMAN BREWING CO., La Crosse, Wis. Published November 15, 1933.

14,554.—*Title:* UNIFORMITY PUTS THE DANCE TEAM IN BIG TIME. For Coffee. HILLS BROS., San Francisco, Calif. Published August 27, 1933.

14,555.—*Title:* NOW, GET THIS, JOHNNY. For Coffee. HILLS BROS., San Francisco, Calif. Published July 23, 1933.

14,556.—*Title:* THERE ARE 3 REASONS FOR THE MATCHLESS GOODNESS OF HILLS BROS COFFEE (10¼x15¾). For Coffee. HILLS BROS., San Francisco, Calif. Published September 15, 1933.

14,557.—*Title:* SEE HOW HILLS BROS RING THE BELL 3 TIMES (15½x20½). For Coffee. HILLS BROS., San Francisco, Calif. Published September 29, 1933.

14,558.—*Title:* HILLS BROS KNOW THE A B C'S THAT INSURE MATCHLESS FLAVOR IN EVERY POUND OF COFFEE (12x13). For Coffee. HILLS BROS., San Francisco, Calif. Published October 13, 1933.

14,559.—*Title:* HILLS BROS KNOW THE A B C'S THAT INSURE MATCHLESS FLAVOR IN EVERY POUND OF COFFEE (8¼x14¼). For Coffee. HILLS BROS., San Francisco, Calif. Published October 13, 1933.

14,560.—*Title:* SEE HOW HILLS BROS RING THE BELL 3 TIMES (12x13). For Coffee. HILLS BROS., San Francisco, Calif. Published September 29, 1933.

14,561.—*Title:* SEE HOW HILLS BROS RING THE BELL 3 TIMES (8¼x14¼). For Coffee. HILLS BROS., San Francisco, Calif. Published September 15, 1933.

14,562.—*Title:* THERE ARE 3 REASONS FOR THE MATCHLESS GOODNESS OF HILLS BROS COFFEE (8¼x14¼). For Coffee. HILLS BROS., San Francisco, Calif. Published September 15, 1933.

14,563.—*Title:* SEE HOW HILLS BROS RING THE BELL 3 TIMES (6x10). For Coffee. HILLS BROS., San Francisco, Calif. Published September 29, 1933.

14,564.—*Title:* HILLS BROS KNOW THE A B C'S THAT INSURE MATCHLESS FLAVOR IN EVERY POUND OF COFFEE (6x10). For Coffee. HILLS BROS., San Francisco, Calif. Published October 13, 1933.

14,565.—*Title:* THERE ARE 3 REASONS FOR THE MATCHLESS GOODNESS OF HILLS BROS COFFEE (6x10). For Coffee. HILLS BROS., San Francisco, Calif. Published September 13, 1933.

14,566.—*Title:* FUNNY PEOPLE, THESE MEN. For Coffee. HILLS BROS., San Francisco, Calif. Published November 15, 1933.

14,567.—*Title:* THE MASTER AT HOME. For Coffee. HILLS BROS., San Francisco, Calif. Published November 15, 1933.

14,568.—*Title:* RAIN ON THE ROOF. For Coffee. HILLS BROS., San Francisco, Calif. Published November 17, 1933.

14,569.—*Title:* BULLS AND BEARS. For Coffee. HILLS BROS., San Francisco, Calif. Published November 17, 1933.

14,570.—*Title:* NOT GOING, DARLING? For Coffee. HILLS BROS., San Francisco, Calif. Published November 20, 1933.

14,571.—*Title:* HE CAN'T TAKE IT. For Coffee. HILLS BROS., San Francisco, Calif. Published November 20, 1933.

14,572.—*Title:* BLOCK THAT KICK. For Coffee. HILLS BROS., San Francisco, Calif. Published November 23, 1933.

14,573.—*Title:* RUNNING GUARD. For Coffee. HILLS BROS., San Francisco, Calif. Published November 23, 1933.

14,574.—*Title:* A NEW THANKSGIVING PROCLAMATION. For Coffee. HILLS BROS., San Francisco, Calif. Published November 27, 1933.

14,575.—*Title:* WOLF IN CHEAP CLOTHING. For Coffee. HILLS BROS., San Francisco, Calif. Published November 29, 1933.

14,576.—*Title:* MONCARDO CONTRACT BRIDGE INSTRUCTOR. For Contract Bridge Instructor. THE MAGIC FLOTE NOVELTY CORPORATION, Chicago, Ill. Published December 27, 1933.

14,577.—*Title:* TOILETRIES. For Toilet Preparations for Ladies. PARKE, DAVIS & CO., Detroit, Mich. Published December 1, 1933.

14,578.—*Title:* ROWELL'S IMPROVED BRAND EYE WATER. For Eye Water Preparations. REX R. ROWELL, Geneva, Ala. Published March 1, 1933.

14,579.—*Title:* SCHWAB'S BEER. For Beer. TONAWANDA BREWING CORPORATION, Tonawanda, N. Y. Published December 15, 1933.

REISSUES

FEBRUARY 6, 1934

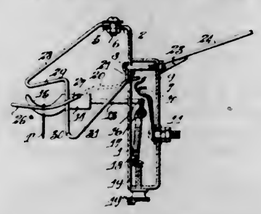
19,069

STOP MECHANISM FOR KNITTING MACHINES

Jacob Wachsman, Brooklyn, N. Y.

Original No. 1,835,732, dated December 8, 1931, Serial No. 493,179, November 3, 1930. Application for reissue November 9, 1933. Serial No. 697,999

10 Claims. (Cl. 66—163)



1. In stop mechanism under control of a travelling thread, a circuit closer unit comprising a housing, a fixed contact member insulated from and mounted in said housing, a circuit terminal therefor, a spring-held lever fulcrumed in said housing and including two substantially parallel arms extending to the outside of said housing, and having a contact heel to engage said contact member when said arms are pulled down, a gravity actuated lever also fulcrumed in said housing and having a contact heel to engage said contact member when said gravity actuated lever is moved upwardly beyond a predetermined position, said gravity actuated lever having its fore end positioned to be held between said parallel arms by the thread placed thereover, and overbalancing means continuously tending to move said gravity actuated lever to bring its fore end above said arms and move it to a circuit closing position.

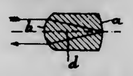
19,070

AUTOCOLLIMATING REFLECTOR AND APPLICATION TO OPTICAL SIGNALING AND NIGHT ADVERTISING

Henri Chrétien, St.-Cloud, France, assignor, by mesne assignments, to Libbey-Cataphote Corporation, Toledo, Ohio, a corporation of Ohio

Original No. 1,706,218, dated March 19, 1929, Serial No. 750,420, November 17, 1924, and in France November 26, 1923. Application for reissue March 9, 1931. Serial No. 521,317

13 Claims. (Cl. 88—1)



1. An auto-collimating reflector comprising a glass unit formed at its two ends with convex surfaces, the radii of the two surfaces being different but the centers of curvature of both being positioned in the same optical axis, the end portion with the curvature of smaller radius serving as an objective lens, and the end of larger curvature having in contact therewith means constituting a reflecting surface to serve as a concave reflector for the light entering the glass unit through the lens.

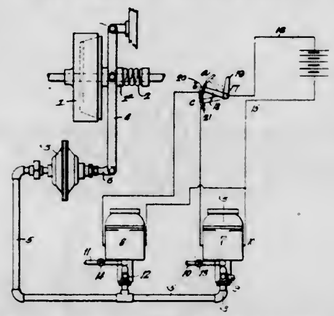
19,071

CLUTCH OPERATING MECHANISM

Charles O. Guernsey, Philadelphia, Pa.

Original No. 1,608,277, dated November 23, 1926, Serial No. 13,411, March 5, 1925. Application for reissue March 25, 1932. Serial No. 601,240

20 Claims. (Cl. 192—91)



1. The combination in a mechanism of the type described, of a clutch; a control member movable to engage or disengage the clutch; means for automatically moving the said member in one direction to engage the clutch; a pneumatic device for moving the said member in the other direction for positively disengaging the clutch; valve means for selectively connecting the said device with a motive fluid supply or in selectively graduated communication with a restricted exhaust; and adjustable means independent of said valve means for varying the amount of restriction of the exhaust.

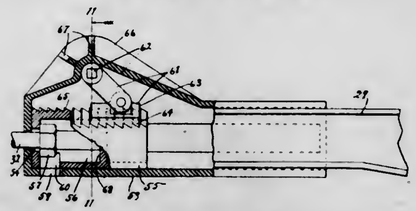
19,072

BRAKE MECHANISM FOR RAILWAY CARS

Percy B. Camp, Maywood, and Jack Wilson, Chicago, Ill., assignors to Universal Draft Gear Attachment Co., a corporation of Illinois

Original No. 1,623,304, dated April 5, 1927, Serial No. 754,287, December 6, 1924. Application for reissue September 26, 1928. Serial No. 308,567

23 Claims. (Cl. 188—200)



1. In a brake mechanism, the combination of a foundation brake gear, a brake cylinder for operating the foundation brake gear, and a hand brake for operating the foundation brake gear, including a hand power device, and means connecting the hand power device and the foundation brake gear automatically operable to adjust the hand brake during the brake applying movement of the foundation brake gear by air to compensate for slack.

PLANT PATENTS

GRANTED FEBRUARY 6, 1934

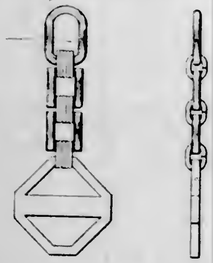
86
PEACH
Oliver P. Blackburn, East Bakersfield, Calif.
Application August 5, 1933. Serial No. 683,806
1 Claim. (Cl. 47—62)

A variety of freestone peach tree bearing fruit of the type herein shown and described, said fruit being characterized by a coloring resembling the (red bird) Early Wheeler clingstone peach, by a meat superior in eating qualities to that of the (red bird) Early Wheeler clingstone peach, by being a full freestone peach, and by a relatively early ripening season as compared with previously known freestone peaches.

DESIGNS

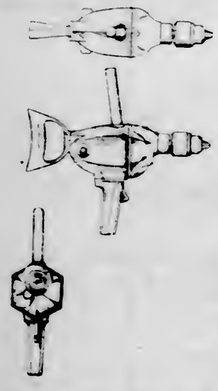
FEBRUARY 6, 1934

91,453
DESIGN FOR A PULL FOR SLIDE FASTENERS
Alfred E. Carlile, Meadville, Pa.
Application July 12, 1933. Serial No. 48,699
Term of patent 14 years



The ornamental design for a pull for slide fasteners as shown.

91,454
DESIGN FOR A CASING FOR A PORTABLE ELECTRIC DRILL
Alonzo G. Decker, Towson, Md., assignor to The Black & Decker Manufacturing Company, Towson, Md., a corporation of Maryland
Application October 11, 1933. Serial No. 49,457
Term of patent 7 years



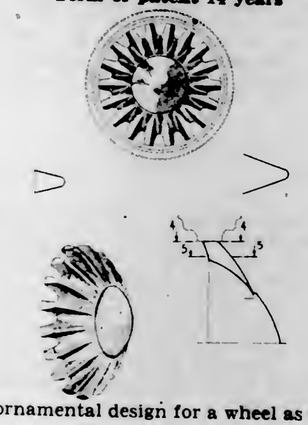
The ornamental design for a casing for a portable electric drill as shown and described.

91,455
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Anton Eckert, Alameda, Calif.
Application November 20, 1933. Serial No. 49,807
Term of patent 7 years



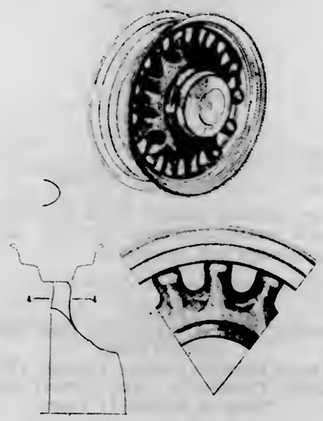
The ornamental design for a plate or similar article substantially as shown and described.

91,456
DESIGN FOR A WHEEL
Carolus L. Eksergian and Talmon A. Davenport, Detroit, Mich., assignors to Budd Wheel Co., Philadelphia, Pa., a corporation of Pennsylvania
Application April 18, 1932. Serial No. 43,537
Term of patent 14 years



The ornamental design for a wheel as shown.

91,457
DESIGN FOR AN ARTILLERY WHEEL
Warren H. Farr and Carolus L. Eksergian, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 17, 1933. Serial No. 49,772
Term of patent 14 years



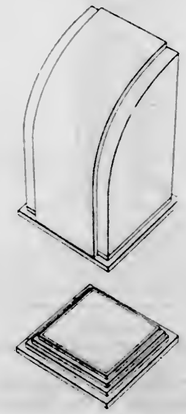
The ornamental design for an artillery wheel as shown.

91,458
DESIGN FOR AN ARTILLERY WHEEL
Paul W. Gaenssle and Talmon A. Davenport, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 17, 1933. Serial No. 49,768
Term of patent 14 years



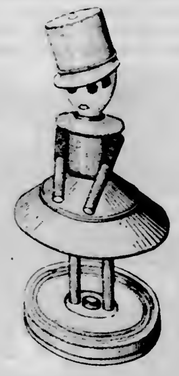
The ornamental design for an artillery wheel as shown.

91,459
DESIGN FOR A CARTON
Guy T. Gibson, New Rochelle, N. Y., assignor to Guy T. Gibson, Incorporated, New York, N. Y., a corporation of New York
Application October 11, 1933. Serial No. 49,455
Term of patent 14 years



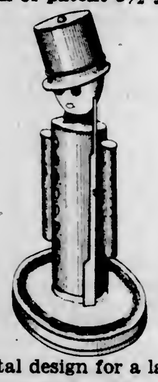
The ornamental design for a carton substantially as shown.

91,460
DESIGN FOR A LAMP
Lurelle Guild, Noroton, Conn., assignor to The Chase Companies, Incorporated, Waterbury, Conn., a corporation
Application December 5, 1933. Serial No. 49,964
Term of patent 3½ years



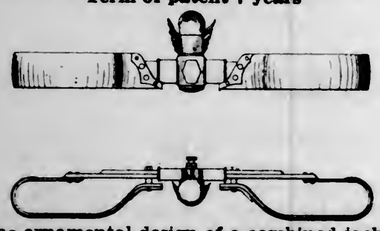
The ornamental design for a lamp as shown.

91,461
DESIGN FOR A LAMP
Lurelle Guild, Noroton, Conn., assignor to The Chase Companies, Incorporated, Waterbury, Conn., a corporation
Application December 5, 1933. Serial No. 49,963
Term of patent 3½ years



The ornamental design for a lamp as shown.

91,462
DESIGN FOR A COMBINED JACK AND BUMPERS
Albert C. Hoecker, St. Louis, Mo.
Application May 31, 1932. Serial No. 43,934
Term of patent 7 years



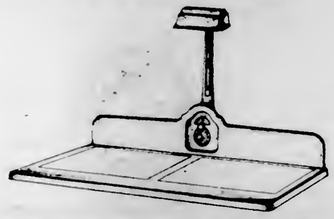
The ornamental design of a combined jack and bumpers as shown.

91,463
DESIGN FOR A FLOOR COVERING
Charles O. Karpf, New York, N. Y., assignor to Mannington Mills, Incorporated, Salem, N. J., a corporation of New Jersey
Application November 21, 1933. Serial No. 49,816
Term of patent 7 years



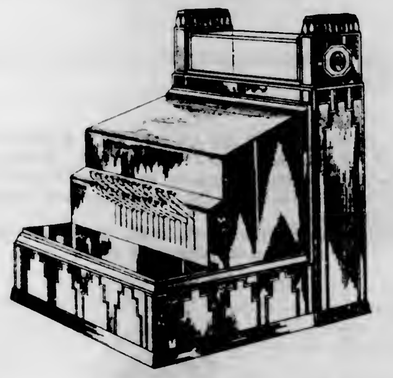
The ornamental design for a floor covering, substantially as shown.

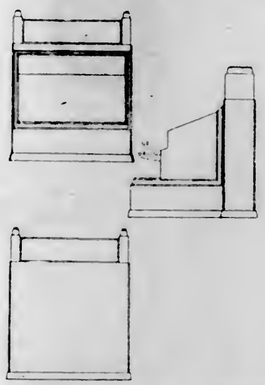
91,464
DESIGN FOR A COMBINED STOVE TOP, BACK GUARD MEMBER, LIGHTING UNIT, AND SHADE
Stephen Leonard, Detroit, Mich., assignor to Detroit Vapor Stove Company, Detroit, Mich., a corporation of Michigan
Application May 24, 1933. Serial No. 48,204
Term of patent 3½ years



The ornamental design for a combined stove top, back guard member, lighting unit, and shade, as shown and described.

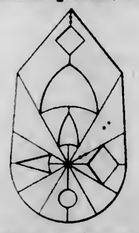
91,465
DESIGN FOR A CABINET FOR CASH REGISTERS
James Douglas Lorenz, Dayton, Ohio
Application October 8, 1932. Serial No. 45,259
Term of patent 14 years





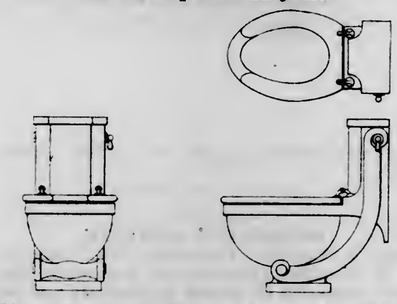
The ornamental design for a cabinet for cash registers, substantially as shown and described.

91,466
DESIGN FOR A TEMPLET FOR FACILITATING THE DRAWING OF GEOMETRICAL PATTERNS
James McKenna, Lisburn, Ireland
Application November 28, 1933. Serial No. 49,887
Term of patent 7 years



The ornamental design for a templet for facilitating the drawing of geometrical patterns, as shown and described.

91,467
DESIGN FOR A WATER CLOSET
Charles F. Mink, Larchmont, N. Y.
Application June 24, 1933. Serial No. 48,520
Term of patent 14 years



The ornamental design for a water closet, as shown and described.

91,468
DESIGN FOR A STORE FRONT
Daniel J. O'Connell, Norman J. Schlossman, John Demuth, and Jerrold Loebl, Chicago, Ill., assignors to O'Connell's Inc., Chicago, Ill.
Application November 17, 1933. Serial No. 49,783
Term of patent 14 years

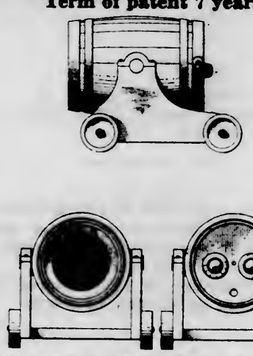


91,468—Continued



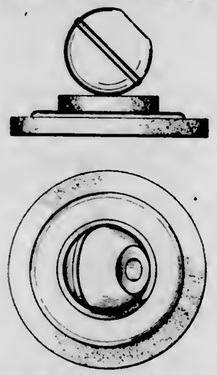
The ornamental design for a store front substantially as shown.

91,469
DESIGN FOR A RADIOCABINET
Joseph L. Raffetto, New York, N. Y.
Application November 25, 1933. Serial No. 49,862
Term of patent 7 years



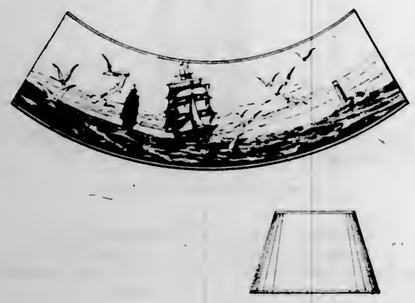
The ornamental design for a radiocabinet as shown.

91,470
DESIGN FOR A WRITING INSTRUMENT HOLDING DEVICE
John L. Schoedler, Toledo, Ohio
Application November 21, 1933. Serial No. 49,869
Term of patent 14 years



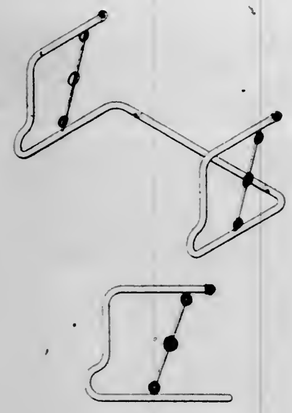
The ornamental design for a writing instrument holding device as shown.

91,471
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application December 1, 1933. Serial No. 49,913
Term of patent 3½ years



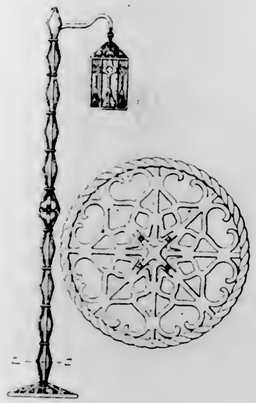
The ornamental design for a lamp shade, as shown and described.

91,472
DESIGN FOR A GLIDER SUPPORTING FRAME
Milton B. Smith, Perrysburg, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application November 13, 1933. Serial No. 49,712
Term of patent 14 years



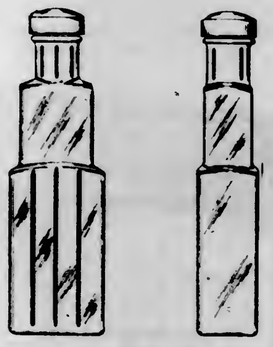
The ornamental design for a glider supporting frame as shown.

91,473
DESIGN FOR A FLOOR LAMP
Philip Terenzi, Fairfield, Ohio
Application November 25, 1933. Serial No. 49,867
Term of patent 7 years



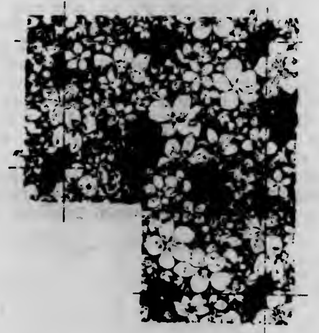
The ornamental design for a floor lamp as shown.

91,474
DESIGN FOR A BOTTLE
Joseph A. Tumbler, Baltimore, Md., assignor to J. A. Tumbler Laboratories, Baltimore, Md., a firm composed of Joseph A. Tumbler and Mack A. Esterson
Application October 28, 1933. Serial No. 49,584
Term of patent 7 years



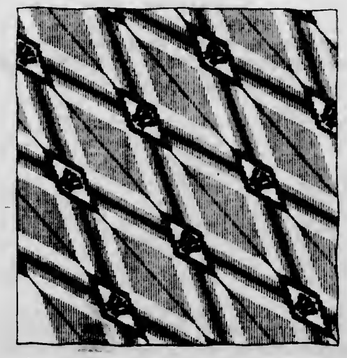
The ornamental design for a bottle as shown.

91,475
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y., assignor to J. Oltarsh, New York, N. Y.
Application December 5, 1933. Serial No. 49,940
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

91,476
DESIGN FOR PAPER
Alfred D. Williams, Montclair, N. J.
Application November 21, 1933. Serial No. 49,817
Term of patent 7 years

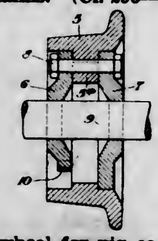


The ornamental design for paper, as shown and described.

PATENTS

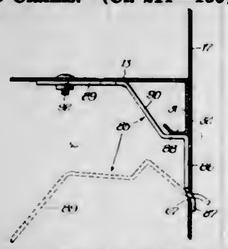
GRANTED FEBRUARY 6, 1934

1,945,506
CONVEYER WHEEL
Philip E. Angle, Duquesne, Pa.
Application July 14, 1931. Serial No. 550,802
3 Claims. (Cl. 295—21)



1. A conveyer wheel for pig casting machines formed with spaced bearing portions to reduce the area of the bearing surface and openings in the spaced portions to provide an outlet for chilled globules of iron and like particles.

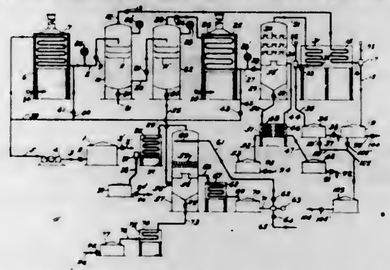
1,945,507
SHELVING CONSTRUCTION
James E. Bales, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Application September 30, 1931
Serial No. 566,035
3 Claims. (Cl. 211—136)



1. Knock-down sheet metal shelving having a shelf having a depending flange along the edge, said flange being turned inward at the bottom, a vertically arranged sheet metal panel having an aperture therein, a brace having a narrow tongue at the lower end insertable in the aperture in the panel and bent so that the portions of the brace adjacent to the aperture in the panel may lie flat against the panel, a knee formed in the brace for engaging the lower inturned edge of the shelf, a horizontal extension at the upper end of the brace contacting the under side of the shelf at a distance from the panel for stiffening the shelf, and means for fastening the horizontal portion of the brace to the shelf.

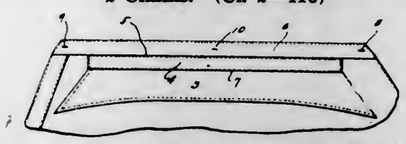
1,945,508
METHOD OF PROCESSING HYDROCARBON OILS
John C. Black, Beverly Hills, Calif.
Application January 21, 1930. Serial No. 422,405
5 Claims. (Cl. 196—60)

1. A process of producing gasoline stock with improved anti-detonating characteristics, comprising, cracking a petroleum oil under superatmospheric pressure, at temperatures of approximately 800–900 degrees F., to produce cracked petroleum oil products containing gasoline stock; passing the hot cracked petroleum oil products into a primary zone of lower pressure and vaporizing, separating, condensing and collecting only a lower boiling portion of the gasoline stock; passing the hot residual cracked petroleum oil products from the said primary zone of lower pressure into a secondary zone of still lower pressure, and vaporizing and separating the remaining, higher boiling portion of the gasoline stock from the residual oil products; passing only the



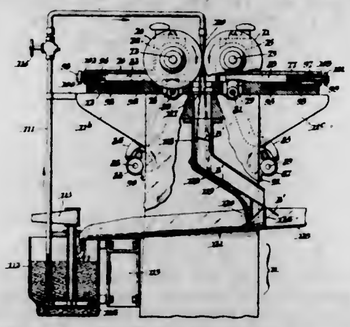
separated vaporized higher boiling portion of the gasoline stock through a heated zone at temperatures of approximately 900–1200 degrees F., injecting a cool hydrocarbon oil, as the cracked product leaves the heated zone, in quantities sufficient to lower the temperature of the vaporized cracked products below an active cracking temperature and to crack the injected oil, and separating reformed gasoline stock, containing a high percentage of hydrocarbons of the carbocyclic series possessing anti-detonating characteristics, from the products of the secondary cracking operation.

1,945,509
COMBINED SHIRT COLLAR AND NECKBAND
Joseph H. Bearman and Walter J. Pietras, Detroit, Mich.
Application November 4, 1932. Serial No. 641,216
2 Claims. (Cl. 2—116)



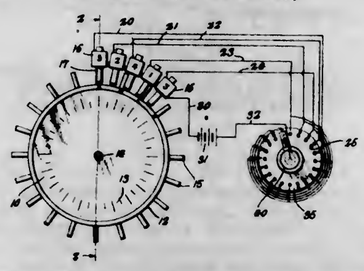
1. In a shirt, a neck-band attached at one edge thereto and having separable ends adapted to be secured together, collar member having a band attached to the interior of the shirt along the same line as the line of attachment of the neck-band thereto, said collar band portion being of substantially the same width as the said neck-band, and an outer collar portion connected with the band only of the collar providing a construction in which the collar may be folded over the neck band of the shirt whereby the collar is supported by the neck-band in conjunction with the collar band, the structure providing that when the separable ends of the neck-band are connected together the said ends appear as a portion of the collar that is folded thereover.

1,945,510
METHOD OF AND MECHANISM FOR FORMING HARDENED STEEL
Robert C. Angell, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application October 5, 1931. Serial No. 567,059
6 Claims. (Cl. 51—278)



1. The process of abrading a hardened steel surface or the like which consists in propelling a stream of liquid abrasive against said surface by feeding the liquid abrasive to a surface harder than both the steel and the abrasive, which surface is rotating in immediate proximity to the surface to be abraded, and is continually carrying the liquid abrasive into contact with the surface to be abraded.

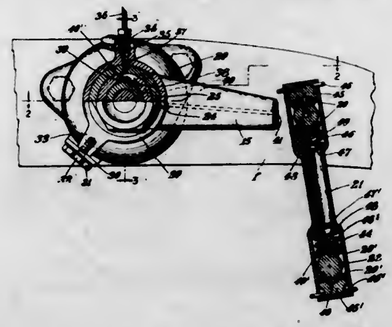
1,945,511
REMOTE CONTROL APPARATUS
Franklin P. Bercot, Fort Wayne, Ind.
Application May 22, 1931. Serial No. 539,400
2 Claims. (Cl. 172—239)



2. In a device of the class described, a disk member for application to a radio dial, said disk including oppositely located peripheral flanges either one serving to engage an edge of the dial, and radial members mounted in the edge of the disk and between the flanges, and means positioned to attract individual radial members, for moving the dial angularly.

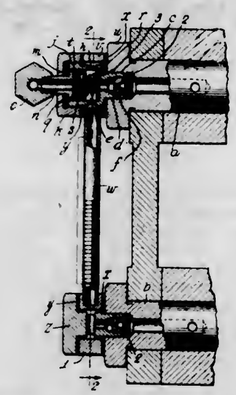
1,945,512
LUBRICATION
Joseph Bijur, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware
Application August 10, 1925. Serial No. 49,439
39 Claims. (Cl. 184—7)

1. In a motor vehicle, in combination, a shock absorber connected to the frame and to an axle and including a retarding element and linkage connected therewith, and means for admitting lubricant to the shock absorber construction adjacent said retarding part and extending exteriorly of the retarding medium thereof, the elements of said shock absorber having lubricant



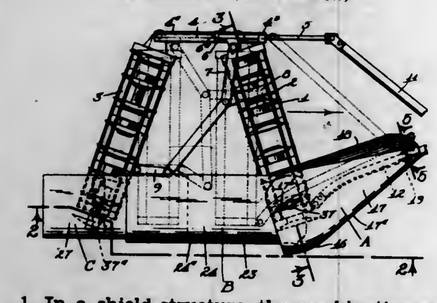
conveying passages therealong supplied from said means and in open communication therewith to apply lubricant at various bearings of the linkage by series flow.

1,945,513
LUBRICATING FIXTURE
Edgar J. Bloom, Tiffin, Ohio, assignor, by mesne assignments, to Auto Research Corporation, a corporation of Delaware
Original application May 19, 1922, Serial No. 562,060, now Patent No. 1,764,774, dated June 17, 1930. Divided and this application June 16, 1930. Serial No. 461,608
1 Claim. (Cl. 184—7)



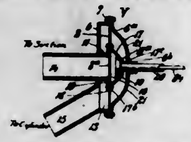
A spring shackle element comprising in combination a pair of bolts, link members connecting said bolts, a fitting for supplying lubricant thereto, one of said links having a longitudinal passage communicating with said fitting and leading to the other of said bolts and flow metering restriction plugs connected to said bolts and in the line of flow to each of the bolts, the ends of said bolts being provided with tapped sockets and said plugs being screwed thereinto in lubricant tight manner, each of said plugs being provided with a central opening, a metering element in said central opening and lubricant passageways extending from the inner ends of said tapped sockets to central portions of the peripheral surfaces of said bolts.

1,945,514
SHIELD FOR AGRICULTURAL IMPLEMENTS
John M. Bowman, Santa Ana, and Samuel Bowman, Los Angeles, Calif.
Application December 26, 1930
Serial No. 504,747
13 Claims. (Cl. 97—192)



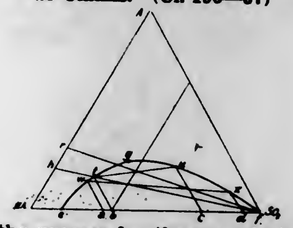
1. In a shield structure, the combination with an agricultural implement having a draft element at its forward end, of a shield means mounted over one side thereof and extending forwardly and downwardly over a portion of the draft element, the inner edge of the shield means having an upwardly directed flange for directing foliage over the top side of the shield means.

1,945,515
VACUUM BRAKE SYSTEM FOR AUTOMOTIVE VEHICLES
Caleb S. Bragg, Palm Beach, Fla., and Victor W. Kliesrath, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a corporation of New York
Application June 27, 1930. Serial No. 464,176
3 Claims. (Cl. 303—54)



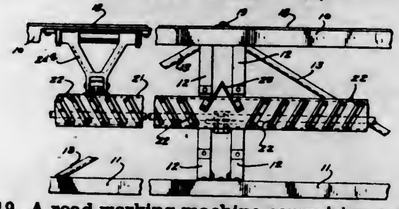
1. In a controlling valve mechanism for vacuum operated power actuator, the combination with a valve casing provided with an annular seat member and having an annular chamber surrounding said seat, a tubular connection communicating with said seat, and a second tubular connection communicating with said annular chamber, and means for connecting said tubular connections respectively with a source of suction and with a vacuum operated device, of a flexible diaphragm having its marginal portions in sealing engagement with marginal portions of said casing, a hollow metallic air inlet valve chamber secured to and supported by said diaphragm, said diaphragm being provided with a valve portion to engage said annular seat member, an air inlet aperture, and means for establishing communication at all times between the interior of said valve chamber and one of said tubular connections, an air inlet valve in said valve chamber, and physically operable means connected with said air inlet valve, the movement of said valve into closed position being in a direction to unseat the diaphragm from said annular seat, whereby the differential of fluid pressures on opposite faces of the diaphragm and valve chamber, when the diaphragm is unseated, will react against said physically operable part in a direction to seat said diaphragm.

1,945,516
PROCESS FOR REFINING HYDROCARBON OILS
Johannes Arnoldus Buchel and Reyerus Nicolaas Jan Saal, Amsterdam, Netherlands, assignors, by mesne assignments, to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application July 18, 1929, Serial No. 379,310, and in the Netherlands July 23, 1928
29 Claims. (Cl. 196—37)



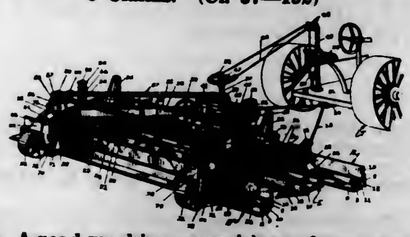
4. In the process for the manufacture of refined transformer, spindle and lubricating oils from a mixture of heavy hydrocarbon containing aromatic hydrocarbons, by means of liquid sulphur dioxide, the step of adding to the liquid sulphur dioxide a fluid aromatic hydrocarbon having the character and action of benzol to increase the content of components soluble in liquid sulphur dioxide, by means of which the ratio of high boiling aromatic content in the extract layer to high boiling aromatic content in the raffinate layer is increased.

1,945,517
ROAD GRADER
James E. Carlson, Minneapolis, Minn.
Application March 26, 1931, Serial No. 525,383
Renewed November 19, 1931
22 Claims. (Cl. 37—143)



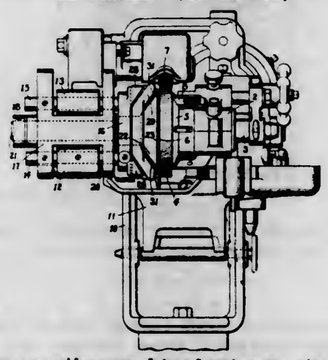
19. A road working machine comprising a drag frame having front and rear trowelling beams, a plurality of angularly arranged parallel planer blades disposed between said beams, and a scraper blade carried by the front trowelling beam.

1,945,518
ROAD WORKING MACHINE
James E. Carlson, Minneapolis, Minn.
Application January 30, 1932. Serial No. 589,911
6 Claims. (Cl. 37—152)



1. A road machine comprising a frame, a pair of trowelling beams and a road planing device carried by the frame, three spaced ground engaging caster wheels adapted to carry the entire frame, and means for simultaneously raising the caster wheels out of supporting engagement with the road.

1,945,519
COATING MACHINE
Herbert L. Chapin, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application April 13, 1931. Serial No. 529,714
11 Claims. (Cl. 12—31)



1. In a coating machine having a rotary brush and a rotary guard associated therewith, a scraper frame mounted adjacent to the outer face of the guard for free bodily movement transversely of the axis of the guard, said frame having scraper members engaging the guard in areas on opposite sides of its axis, means for preventing rotative movement of the scraper frame with the guard, and flexible means for supporting said frame against gravity.

1,945,520
AIRCRAFT
George Wilbur Cornelius, Glendale, Calif.
Application April 1, 1931. Serial No. 526,796
10 Claims. (Cl. 244—29)



1. In an airplane, the combination of a fuselage; wings on the fuselage; means to support the wings on the fuselage so that the wings are rotatable around a lateral axis; means of connection between each wing and the fuselage, disposed between the trailing edge of each wing and said lateral axis to guide the rotative movement of the respective wings within the limits of predetermined arc; an auxiliary wing supported in spaced relation to the trailing edge of each wing so as to exert a righting moment on the respective wings by reason of the air pressure on the said auxiliary wings; adjustable means on the wings to maintain the auxiliary wings in a selected angular position; adjusting mechanisms extended from said adjustable supporting means through the respective wings and into the fuselage, whereby said adjustable supporting means are adjusted; and a control mechanism in the fuselage connected to said first wings through the said guiding means for manually controlling the angles of attack of the first wings, said last mentioned mechanism being adapted to allow free movement of the released control with the automatic wing adjustments.

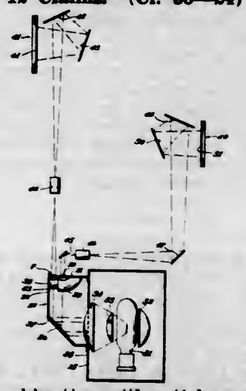
1,945,521
MOTOR FUEL STABILIZATION
Frederick B. Downing, Carneys Point, N. J., and Herbert W. Walker, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 31, 1930
Serial No. 472,187
15 Claims. (Cl. 44—9)

1. Motor fuel comprising cracked hydrocarbon spirits normally tendency to form gummy substances and containing a xylenol having at least one methyl group in one of the positions ortho and para to the hydroxyl group in an amount sufficient to retard the formation of the gummy substances.

4. Motor-benzol comprising cracked hydrocarbon spirits normally tending to form gummy substances and containing a mixture of xylenols in an amount sufficient to retard the formation of the gummy substances.

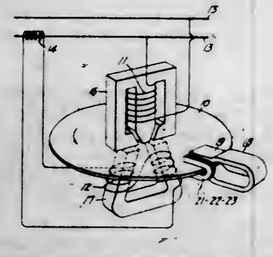
5. Motor fuel comprising cracked hydrocarbon spirits normally tending to form gummy substances and containing 4-hydroxy-1:3-di-methylbenzene in an amount sufficient to retard the formation of the gummy substances.

1,945,522
DOUBLE PROJECTING MACHINE
August D. Eitzen, Rockville, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York
Application May 13, 1930, Serial No. 451,922
Renewed February 4, 1932
12 Claims. (Cl. 88—24)



1. The combination with a ticker, of a projecting machine having two adjacent parallel light apertures, a guide from one light aperture to the other, a tape puller for pulling the tape across one light aperture around said guide and across said other light aperture as it issues from said ticker, a screen housing for each light aperture, an objective lens interposed between each light aperture and its screen housing, a single source of light, and a condenser for each light aperture, said condenser lenses receiving a single beam of light from said light source and dividing it into light beams of different focal length.

1,945,523
ELECTRIC METER
Paul D. Flehr, San Mateo, Calif.
Application August 26, 1932. Serial No. 630,509
5 Claims. (Cl. 171—34)



1. In an electric meter, an induction disc, a magnet serving to apply a load torque to the disc by inducing eddy currents in the disc, and means for automatically varying the flux from said magnet which is effective to induce said eddy currents in accordance with the rate of movement of said disc.

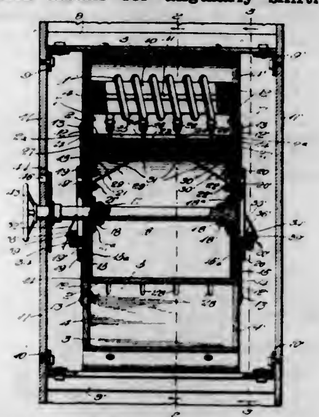
1,945,524
PISTON PACKING
Joseph F. Foehr, Garden City, N. Y.
Application January 5, 1931. Serial No. 506,549
8 Claims. (Cl. 309—33)



1. A packing of the character described comprising a plurality of non-metallic members having substantially cylindrical side walls and connected bottom walls secured together in nested relation by a layer of adjesive material impervious to the fluid with which the packing is to be used, said layer being continuous and extending to the surface of said cylindrical side walls, the inner member being of a flexible fibrous material and having its side walls extending longitudinally above the edge of the outer member sufficiently to provide a flexible single ply to engage and conform to a relatively movable surface above the edge of the outer member.

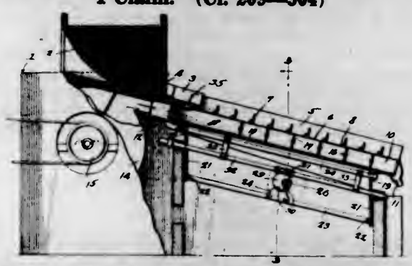
1,945,525
FREQUENCY CHANGING SYSTEM FOR HIGH FREQUENCY SIGNALING APPARATUS
Louis A. Gebhard, Washington, D. C.
Application December 6, 1932. Serial No. 645,961
14 Claims. (Cl. 171—242)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a frequency changing apparatus, a supporting structure, a metallic housing carried by said supporting structure, a plurality of electrically shielded metallic compartments formed in said housing, insulated supports in each of said compartments, inductance units of different frequency characteristics carried by said supports and having taps thereon, said inductance units being spaced from the walls of said metallic compartments, a rotatable metallic cylinder disposed concentrically within said metallic housing, contact members extending through apertures formed in said rotatable cylinder for establishing connection with selected taps on said inductance units, and means for angularly shifting said



cylinder for correspondingly establishing connection with a selected inductance unit.

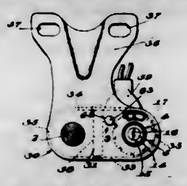
1,945,526
AUTOMATIC DRY CONCENTRATOR
James Franklin Gibson, Tucson, Ariz.
Application June 29, 1931. Serial No. 547,721
1 Claim. (Cl. 209—504)



In a concentrator of the class described, a support, a separator movable with respect to the support, a transverse shaft journaled on the support, first and second eccentrics on the shaft, a longitudinal shaft journaled on the support, a substantially vertical arm on the longitudinal shaft, means for connecting the arm to the separator, a substantially horizontal arm on the longitudinal shaft and cooperating with the second eccentric to impart a horizontal component to the movement of the separator, means for maintaining the arms in operative relation to the eccentrics, a frame pivoted to the support for rocking movement about an axis disposed longitudinally of the separator, links located on opposite sides of the longitudinal shaft and pivoted to the frame and to the separator, and means on the frame for cooperation with the first eccentric, to impart a vertical component to the movement of the separator.

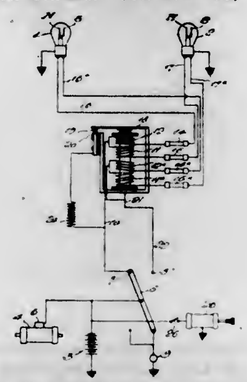
1,945,527
IGNITION CIRCUIT AND OTHER LOCK
Victor L. Gilpin, Baltimore, Md.
Application October 20, 1931. Serial No. 569,970
15 Claims. (Cl. 70—127)

7. In a lock comprising a bolt and means for shifting it to locking and unlocking positions, a contactor and means tending to move it to a circuit-opening position when the bolt is in its locking position; engageable means comprising slip-connection elements on the bolt and contactor then engaging in readiness to move the contactor to a circuit-closing position when mov-



ing the bolt to an unlocking position, and release means movable to displace the respective slip element of the contactor enabling the contactor to reassume its circuit-opening position leaving the bolt in its unlocking position.

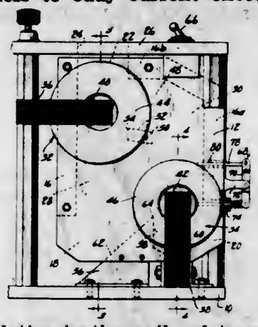
1,945,528
LIGHTING SYSTEM FOR AUTOMOTIVE VEHICLES
Hayner H. Gordon, Washington, D. C., assignor, by direct and mesne assignments, to Lite Watchman Corporation, New York, N. Y., a corporation of Delaware
Application May 3, 1930. Serial No. 449,657
12 Claims. (Cl. 171—97)



1. An electrical lighting system for automotive vehicles including in combination two lighting systems capable of separate energization, a source of electrical energy, manually operable switching means for selectively connecting said source of energy to either of said lighting systems, automatic switching means having a circuit associated therewith to connect said lighting systems in parallel, and means for operating said automatic switching means dependent for functioning upon a partial cessation of flow of energy in either of said lighting systems.

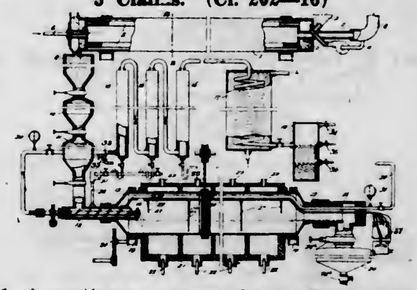
1,945,529
ART OF TESTING COINS OR OTHER TOKENS FOR GENUINENESS
Fairfield W. Hoban, New York, N. Y., assignor to Fairfield Specialties Corporation, New York, N. Y., a corporation of New York
Application March 9, 1931. Serial No. 521,314
12 Claims. (Cl. 194—101)

3. The herein described method of distinguishing between genuine and spurious coins, tokens or like devices which consists in causing a device to fall by gravity towards a fluctuating electromagnetic field, and making said field deflect the device if genuine and spurious devices of greater responsiveness to eddy current effect edgewise



laterally relative to the path of travel thereof, and to pass the other devices.

1,945,530
DESTRUCTIVE DISTILLATION OF SOLID CARBONIZABLE MATERIAL
Lewis C. Karrick, Salt Lake City, Utah
Application April 14, 1928. Serial No. 270,030
5 Claims. (Cl. 202—16)



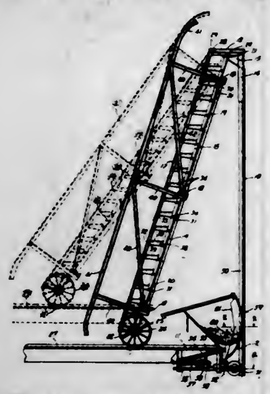
1. A continuous process for producing hydrocarbon oil lighter than water from solid carbonizable material, which comprises passing a mixture of solid carbonizable material and a highly adsorbtive material containing adsorbed copper in a path of continuous direction at a substantially uniform rate while excluded from the atmosphere and maintained under a pressure materially above atmospheric, rolling the particles of mixed material continuously during its aforesaid passage, heating said mixed material to progressively increasing temperatures in progressive stages of its travel effective to produce controlled pyrolysis, withdrawing the vaporized distillation products in a direction counter to the general movement of the mixed material through zones of successively decreasing temperatures, and returning incompletely decomposed liquid distillation products to the heating zone with additional carbonizable substance to effect their further conversion.

1,945,531
ROLLING LADDER FOR TANKS
Andrew A. Kramer, Kansas City, Mo., assignor to George D. Beardsley, Kansas City, Mo.
Application August 22, 1930. Serial No. 477,059
4 Claims. (Cl. 223—54)

1. The combination with a tank and a deck vertically movable in said tank, of a ladder having one end thereof mounted on said tank and having the other end thereof engaging said deck to move thereon, whereby said ladder adjusts its position in accordance with the position of

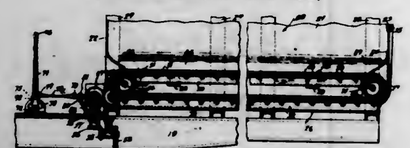
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said deck in said tank and cooperating means on said tank and deck to hold said deck against rotation in said tank, said ladder having tread



members thereon and means for holding said tread members in a substantially horizontal position in any position of said ladder.

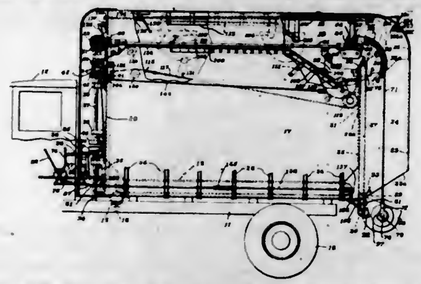
1,945,532
TRUCK BODY
Henry C. Lima, Stamford, Conn., assignor to Grace T. Lima, Stamford, Conn.
Application September 19, 1931
Serial No. 563,758
8 Claims. (Cl. 214—83)



1. The combination of a truck frame, ground wheels, ground wheel driving mechanism mounted on the frame, a body mounted on the frame, an endless conveyer mounted in the body and forming a load receiving bottom therefor, said conveyer having a pair of spaced grooves in its top wall adjacent its opposite side edges extending longitudinally thereof, said body having side pieces extending downwardly into said grooves to prevent material moving off the edges of the conveyer, and means operated by the ground wheel driving mechanism for actuating the endless conveyer.

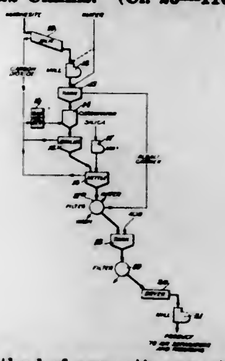
1,945,533
SELF LOADING TRUCK
Henry C. Lima, Stamford, Conn., assignor to Grace T. Lima, Stamford, Conn.
Application October 22, 1931. Serial No. 570,351
25 Claims. (Cl. 214—67)

1. In a self loading truck, a body, a hood at the rear end of the body and open at its lower end and communicating at its upper end with the interior of the body, a bucket at the rear end of the body and operable through said hood from a loading position below the lower end of the hood to a dumping position at the upper end of the hood, means to operate the bucket between loading and dumping positions, a movable trough within the body and normally disposed within and adjacent the rear thereof in position to receive material dumped by said bucket, said trough movable between its normal position in the rear portion of the body and a dumping position in the forward portion of the body, and means to



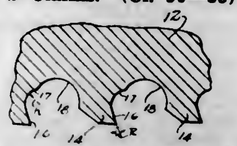
move the trough to its dumping position and return it to its normal position.

1,945,534
METHOD OF PRODUCING REACTIONS WITH SILICA AND PRODUCTS THEREOF
Ernest Wayne Rembert, Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application April 10, 1931. Serial No. 529,269
22 Claims. (Cl. 23—110)



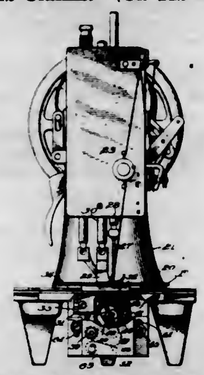
1. In a method of promoting reactions between solid, finely divided silicious materials and sparingly soluble reactive compounds in the presence of water, the step of introducing an alkali into a mixture of silicious material, water and a sparingly soluble reactive compound, heating the mixture, and then separating the alkaline solution from the silicate product.

1,945,535
BROACHING TOOL
Bernard P. Schiltz, Cleveland, Ohio, assignor to The Foote Burt Company, Cleveland, Ohio, a corporation of Ohio
Application January 26, 1932. Serial No. 588,856
2 Claims. (Cl. 90—33)



1. A metal cutting tool having a plurality of parallel cutting teeth with flutes formed therebetween, the forward surface of each tooth comprising a rake surface terminating in a flute arc, said arc terminating in a depressed groove extending to a greater depth into the body of the tool than the rake and said flute arc, and wherein said groove extends into the rearmost section of the preceding tooth wall an amount sufficient to prevent the intersection of the rear surface of the preceding tooth by the flute arc extended.

1,945,536
TUFTING MECHANISM
Henry J. Schomer, Oshkosh, Wis., assignor to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin
Application December 2, 1931. Serial No. 578,427
12 Claims. (Cl. 112—79)



1. In tufting mechanism of the class described, the combination of a reciprocating needle, a bill-shaped looper mounted in position to present its tip to the needle in position to engage the thread carried by the needle, the looper being provided with a cutting edge along its under side and behind the tip thereof, and an oscillating cam for actuating the looper to project its tip through the loop of thread carried by the needle and engage such loop in position to effect cutting thereof when advanced to the cutting edge.

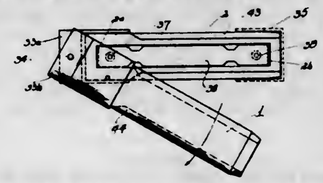
1,945,537
ARTIFICIAL FABRIC
George L. Schwartz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 31, 1930, Serial No. 458,899. Renewed January 19, 1933
6 Claims. (Cl. 92—21)

1. An article of manufacture comprising a sheet of artificially crinkled, fibrous cellulosic material having starch absorbed therein said article being flexible, exhibiting very little paper-break and having strong resistance to tear, said artificially crinkled cellulose material being substantially identical with that obtained by dispersing paper pulp with 8% to 35% sodium hydroxide solution at room temperature and promptly washing out the caustic.

1,945,538
ARTIFICIAL FABRIC
George L. Schwartz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 31, 1930, Serial No. 458,900. Renewed January 19, 1933
8 Claims. (Cl. 92—40)

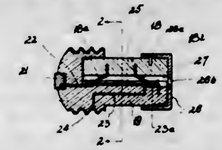
1. An article of manufacture comprising a web of artificially crinkled fibrous cellulosic material impregnated with rubber latex coagulated therein, said article being flexible, exhibiting no paper-break, and having strong resistance to tear and strong resistance to abrasion, said web being substantially identical with the web obtained by dispersing paper pulp with 8% to 35% sodium hydroxide solution at room temperature, promptly washing out the caustic and felting the pulp.

1,945,539
ELECTRIC FUSE
Bedford K. Smith, Alexandria, Va.
Original application October 1, 1930, Serial No. 485,731. Divided and this application March 1, 1933. Serial No. 659,154
2 Claims. (Cl. 200—131)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An electric fuse comprising a pair of semi-cylindrical members of insulating material adapted to register one with the other for forming a cylindrical housing, a channelway extending longitudinally through the housing, a divided cap member having parts pivotally connected for angular displacement in different horizontal and parallel planes and a separate cap member adapted to engage the opposite ends of said semi-cylindrical members when said members are longitudinally aligned, brushes carried by the opposite interior walls of said cap members and projecting into the longitudinally extending channelway, and a renewable fuse extending through said channelway and electrically connected at the ends thereof with each of said cap members.

1,945,540
ELECTRIC FUSE
Bedford K. Smith, Alexandria, Va.
Original application October 1, 1930, Serial No. 485,731. Divided and this application March 1, 1933. Serial No. 659,155
3 Claims. (Cl. 200—130)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An electric fuse comprising an insulated casing constituted by a pair of coacting separable parts displaceable in position one with respect to another, a screw plug forming electrical terminals carried on the end of one of said separable parts, an end cap carried by the opposite separable part and adapted to envelop the opposite ends of said separable parts when in assembled position, a channelway defined by the separable parts when in aligned position, a renewable fuse extending through said channelway, and means for establishing connection between the opposite ends of said fuse and the terminals of said screw plug.

1,945,541
ELECTRIC FUSE
Bedford K. Smith, Alexandria, Va.
Original application October 1, 1930, Serial No. 485,731. Divided and this application March 1, 1933. Serial No. 659,156
2 Claims. (Cl. 200—131)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An electric fuse comprising a pair of insulating portions adapted to register one with the other, a channelway formed between said insulating portions when in registered position, end caps each formed by a pair of slidably engaged coacting parts embracing opposite ends of said insulating portions, means projecting from the interior walls of the end caps into said channelway and a renewable fuse extending through said channelway and maintained in position at opposite ends therein by means of said brushes.

1,945,542
PARASITICIDE AND METHOD OF MAKING THE SAME
Max L. Tower and Harry W. Dye, Middleport, N. Y., assignor to Niagara Sprayer and Chemical Company, Inc., Middleport, N. Y., a corporation
No Drawing. Application February 7, 1929 Serial No. 338,325
10 Claims. (Cl. 167—20)

2. A parasiticidal composition comprising a pulverulent insoluble parasiticide the particles of which are substantially covered with a coating comprising a substantially insoluble colored colloidal substance.

1,945,543
HYDRAULIC FLUID
Arthur G. Weber and Richard B. Schneider, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 29, 1932 Serial No. 601,881
14 Claims. (Cl. 252—5)

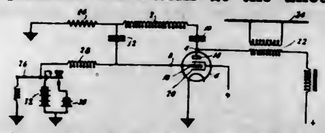
6. A fluid for use in fluid pressure apparatus comprising castor oil and a mixture of higher boiling oxygenated organic liquid products obtainable as a by-product in the catalytic hydrogenation of oxides of carbon to methanol.

9. A fluid for use in fluid pressure apparatus comprising rape seed oil and a mixture of higher boiling oxygenated organic liquid products obtainable as a by-product in the catalytic hydrogenation of oxides of carbon to methanol.

12. A fluid for use in fluid pressure apparatus comprising liquid petrolatum and a mixture of higher boiling oxygenated organic liquid products obtainable as a by-product in the catalytic hydrogenation of oxides of carbon to methanol.

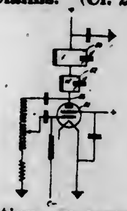
1,945,544
FREQUENCY CONTROL
James W. Conklin, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 29, 1930. Serial No. 456,870
7 Claims. (Cl. 250—36)

1. In combination, an electron discharge device having an anode, a cathode, and a control electrode, a long line in the form of a coil having an increased number of turns at its ends per unit of length thereof so as to maintain uniform inductance at the ends of the coil, between the anode and control electrode, the length of the line being several half wave lengths long at a desired operating frequency such that for a desired frequency, potential variations at the anode and



control electrode of the electron discharge device are substantially 180 degrees out of phase, and, an impedance equal in value to the surge impedance of said line connected between the line and cathode at the output end of said line.

1,945,545
FREQUENCY CONTROL SYSTEM
James L. Finch and James W. Conklin, Rocky Point, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application May 16, 1929. Serial No. 363,660
37 Claims. (Cl. 250—36)



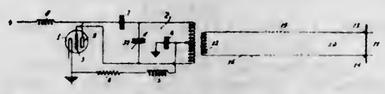
2. In combination, an asymmetric device having an input circuit and an output circuit, a long line associated with the input and output circuits of such a length that for a desired frequency potential variations appearing in the output circuit of the device are transferred to the input circuit thereof a time later such that regeneration for substantially only the desired frequency results, and, a resistance substantially equal in value to the surge impedance of said line connected to said line causing energy transfer over said line to be aperiodic.

22. In apparatus for generating high frequency oscillations, an electron discharge device oscillator comprising an hermetically sealed container having therein an anode a cathode and a control electrode, a circuit for approximately fixing the frequency of oscillation of said device and, a long line for accurately frequency controlling the oscillations generated by said electron discharge device oscillator coupled thereto, said line being long relative to a half wave length at the operating frequency of said oscillator, energy fed from said oscillator to said line being fed back to the oscillator at the output end of the line with a shift in phase which varies rapidly with a shift in oscillator frequency and in such a direction as to pull the oscillator back in frequency with the desired operating frequency, the absolute shift in phase of the energy so fed back for frequency control being directly proportional to the number of wave lengths contained in the line.

1,945,546
OSCILLATOR
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 18, 1929. Serial No. 400,489
27 Claims. (Cl. 250—36)

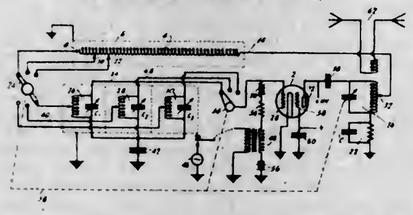
1. In combination, an oscillatory circuit having inductance and capacity, an electron discharge device having an anode a cathode and a grid, connections from said anode cathode and

grid to points of different alternating current potential on said oscillatory circuit whereby oscillations are set up in said circuit at a frequency corresponding approximately to the resonant frequency of said circuit, and, a sharply resonant circuit coupled to said oscillatory circuit



for maintaining constant the frequency of oscillations generated in said oscillatory circuit, said sharply resonant circuit comprising a pair of conductors having substantially uniformly distributed inductance and capacity and arranged so as to be substantially radiationless.

1,945,547
OSCILLATION GENERATION
George Emerson Pray, Wading River, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1930, Serial No. 457,897
Renewed February 7, 1933
20 Claims. (Cl. 179—171)



1. In combination, a single long line, a single electron discharge device oscillator having its anode coupled at one point to the long line, a plurality of surge impedances connected between different points on the line and ground, and means for establishing connection between each surge impedance and the control electrode of the oscillator.

1,945,548
RADIANT HEAT SUPERHEATER
David S. Jacobus, Montclair, and John E. Black, Rumson, N. J., assignors to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey
Application January 10, 1928, Serial No. 245,687
Renewed May 17, 1933
2 Claims. (Cl. 122—481)



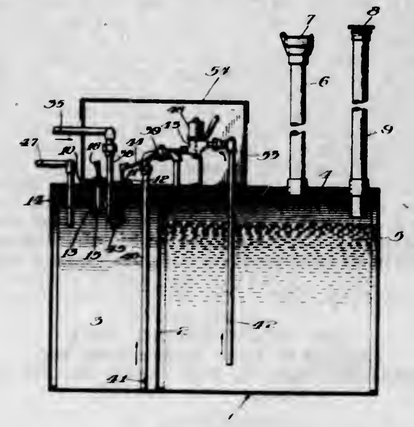
2. In a radiantly heated steam superheater, a furnace, a row of flattened tubes having their front and back walls of considerably greater area than their side walls and presented to the furnace so that the front walls are directly exposed to the radiant heat of the furnace, metal projections of substantial length extending from the front walls of the tubes to their back walls and united thereto so as to prevent tube distortion by equalizing the metal temperatures of those walls, and means connected to the tubes to provide for the passage of steam therethrough.

1,945,549
TUBE
Isaac Harter, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey
Continuation of application Serial No. 247,932, January 19, 1928. This application April 7, 1932. Serial No. 603,728
5 Claims. (Cl. 122—481)



1. In fluid heat exchange apparatus, a furnace, means for burning fuel in the furnace, a row of tubes exposed to radiant heat in the furnace and conducting steam past a zone in which the tubes have their front and rear wall portions heated unequally, and metallic conductors in heat exchange relation with the metal of the tubes and extending from the front wall portions to the rear wall portions of the tubes, said conductors being distributed over the wall portions of the tubes exposed to heat radiantly transmitted from the burning fuel.

1,945,550
METHOD FOR GENERATING COMBUSTIBLE GAS
Walter H. Hermsdorf, Chicago, Ill., assignor, by mesne assignments, to S. H. G. Incorporated, Chicago, Ill., a corporation of Delaware
Application April 24, 1930. Serial No. 446,831
1 Claim. (Cl. 48—219)

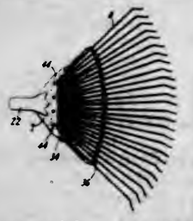


A method of generating combustible gas, which comprises maintaining a bulk supply of combustible liquid under pressure in a closed zone, periodically introducing a stream of air under pressure to a separate closed zone normally containing no liquid and contacting a stream of said liquid and said air stream in said separate closed zone to form a combustible gas, thereby increasing the pressure in said separate zone to a predetermined maximum, subjecting the liquid zone to the pressure in said separate zone and substantially equalizing the pressures in both zones, and during said equalization step returning unvaporized liquid under pressure accumulated in said gas generating zone to said liquid zone.

1,945,551
MANUFACTURE OF PIGMENTS BY WET-PRECIPITATION
William C. Hoecy and Edmund J. Flynn, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application December 12, 1928 Serial No. 325,644
8 Claims. (Cl. 134—78)

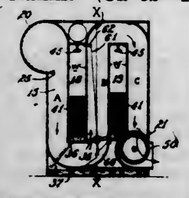
1. In the method of manufacturing lithopone, the steps which comprise bringing together aqueous solutions of barium sulfide and zinc sulfate, at least one of said solutions containing a precipitable magnesium compound in solution, and terminating the main reaction between the barium sulfide and the zinc sulfate before an appreciable amount of magnesium compound is precipitated.

1,945,552
RAKE
Axel R. Johnson, White Plains, N. Y.
Application May 27, 1933. Serial No. 673,156
3 Claims. (Cl. 55—114)



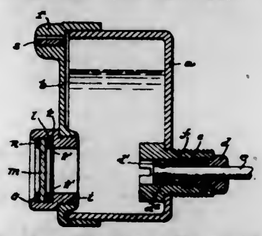
1. A rake comprising a metallic head plate, said head plate having a curved peripheral edge and a plurality of radial grooves, said edge having a plurality of rake teeth receiving holes, a plurality of rake teeth, said teeth at their outer raking ends being curved at substantially right angles to the longitudinal dimensions of said teeth, the innermost ends of said teeth being bent at right angles to the longitudinal axes of said teeth and protruding through a plurality of aligned holes in said head plate, the protruding ends being welded to said metallic head plate, said rake teeth at the rake head portions thereof lying in the radial grooves of said metallic head plate, and means fastened to each of said teeth and to said rake head plate for maintaining separation of said teeth at their free raking ends.

1,945,553
AIR CONDITIONING UNIT
Edmund H. Koon, Indianapolis, Ind.
Application July 30, 1932. Serial No. 626,547
2 Claims. (Cl. 62—139)



1. Air conditioning apparatus comprising a tortuous air channel having an inlet and an outlet and comprising a plurality of intermediate laterally separated substantially vertical passages progressively connected at opposite ends, water-evaporating chambers interposed between adjacent walls of said vertical passages, and damper means interposed between said inlet and outlet and movable to establish tortuosity of air travel from inlet to outlet conjunctively relative to said evaporating chambers or to by-pass air travel from inlet to outlet relative to said evaporating chambers.

1,945,554
SIPHON LUBRICATOR FOR SUCTION AND PRESSURE LUBRICATION
Hans Kreidel, Wiesbaden, Germany
Application December 11, 1931, Serial No. 580,468, and in Germany December 22, 1930
4 Claims. (Cl. 184—64)



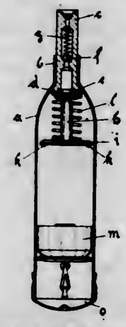
1. A combined capillary, gravity, and high pressure lubricator comprising, a rigid lubricant chamber having at its uppermost part a lubricant receiving fitting adapted for connection with a high pressure lubricant pump, a hollow attachment screw mounted for rotation in said chamber, said screw having openings communicating with the interior of said chamber, an apertured wick carrier secured in said screw and provided with a tubular part of lesser diameter than the hollow portion of said screw thereby to form an annular space for lubricant, and a wick secured in said carrier and communicating with said annular space through the apertures in said carrier.

1,945,555
HAND-OPERATED SUCTION AND PRESSURE PUMP FOR LUBRICATING PURPOSES
Hans Kreidel, Wiesbaden, Germany
Application December 19, 1931, Serial No. 582,165, and in Germany July 13, 1931
2 Claims. (Cl. 221—47.3)



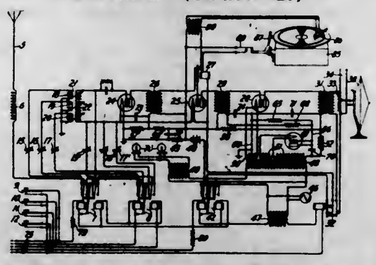
1. A high pressure grease gun comprising a relatively long small-diameter tube having an inwardly turned annular flange at one end thereof and having an annular inwardly spun projection adjacent said end, a piston rod reciprocable in said tube and guided by said flange and said projection, said piston rod having a diameter nearly as great as that of said tube, a piston secured to said rod and forming a seal against the walls of said tube when moved in either direction, and a connector for making a contact seal with a lubricant receiving fitting secured in the end of said tube opposite said flange, said connector having a passageway in open communication with the bore of said tube and having its peripheral surface lying substantially in a prolongation of the external surface of said tube.

1,945,556
HAND-OPERATED HIGH PRESSURE GREASE GUN
Hans Kreidel, Wiesbaden, Germany
Application December 19, 1931, Serial No. 582,166, and in Germany March 27, 1931
2 Claims. (Cl. 221—47.4)



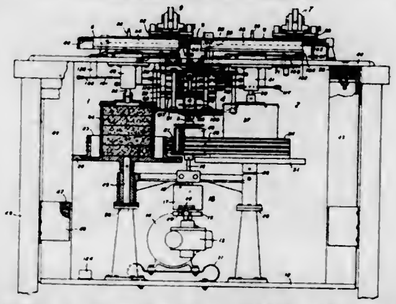
1. In a high pressure grease gun of the push operated type, the combination of a barrel having a guide at one end thereof, a high pressure cylinder reciprocable in said guide, a plurality of spaced stops formed in said barrel, a spider having parts thereof cooperable with said stops, a plunger for said high pressure cylinder and carried by said spider, and a spring compressed between said spider and said high pressure cylinder and operative to hold said spider against said stops and to hold said cylinder outwardly.

1,945,557
SIGNALING SYSTEM
Maurice B. Long, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 1, 1926. Serial No. 138,854
9 Claims. (Cl. 250—40)



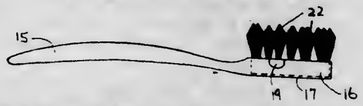
1. A circuit capable of operating at any frequency in a range of frequencies comprising means for substantially instantaneously rendering said circuit selective at will to waves of any desired one of a plurality of predetermined frequencies within said range, and means for rendering said circuit selective at will to waves of any desired frequency within said range of frequencies.

1,945,558
PHONOGRAPH RECORDING MACHINE
Rudolph F. Mallina, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1930. Serial No. 491,844
11 Claims. (Cl. 274—10)



11. In a recording machine, a plurality of recording units each comprising a recorder, a turntable carrying a record blank, a rotating turntable supporting member and means for holding the turntable above and out of contact with said member, common driving means for rotating the members and moving the recorders across the record blanks, a cam shaft, means operative while the first unit is recording for associating the shaft with the driving means, a first cam on the shaft and means controlled thereby for lowering the turntable of the second unit into contact with its supporting member, a second cam on the shaft and means controlled thereby for lowering the recorder of the second unit into contact with the driving means and the record blank of the second unit and subsequently lifting the recorder of the first unit out of contact with its record and the driving means, a third cam on the shaft and means controlled thereby for returning the first recorder to its starting position, a fourth cam on the shaft and means controlled thereby to indicate the completion of a record and a fifth cam on the shaft and means controlled thereby for disconnecting the cam shaft from the driving means.

1,945,559
TOOTHBRUSH
Edwin M. McNally, Indianapolis, Ind., assignor to The Tefra Co., Indianapolis, Ind., a corporation of Delaware
Application April 28, 1931. Serial No. 533,473
2 Claims. (Cl. 15—176)



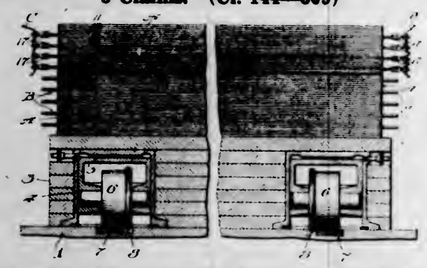
1. In a toothbrush, the combination of a handle, a loop on one end of said handle and having an outer face portion at least formed of non-metallic material, a brush head in the form of a block of metal adapted to be held in position in said loop and having a series of tufts of bristles secured in sockets opening into one face of said block, and a layer of insulation on at least a portion of the surface of said block adapted in co-operation with said loop normally to prevent contact of said metal block with the teeth of the user, said metal block and its covering of insulation being of such size and shape as to place said loop under tension circumferentially thereof so as to be held firmly in position in the loop by frictional engagement therewith.

1,945,560

METHOD OF GLUING LAMINATED PANELS

George R. Meyercord, Chicago, Ill., assignor to Haskelite Manufacturing Corporation, a corporation of New York

Application March 29, 1932. Serial No. 601,870
3 Claims. (Cl. 144—309)



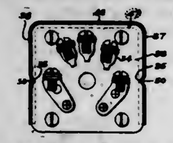
1. The method of gluing laminated wood panels which consists in forming a stack of rudimentary panels each composed of its laminæ with material interposed between the same to cause them to adhere under heat and pressure, separating consecutive panels at frequent intervals between the top and bottom of the stack by thin solid panel-like heating elements, placing the stack in a press, and closing the press and energizing the heating elements.

1,945,561

PROTECTING DEVICE

Harry E. Norviel, Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a corporation of Delaware

Application February 9, 1931. Serial No. 514,493
6 Claims. (Cl. 247—1)



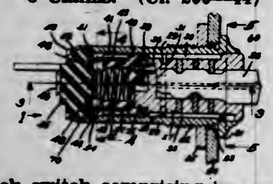
1. In a protecting device, the combination comprising; a switch base supporting a plurality of terminals; a cover having a top wall and side walls, said side walls terminating in an open side with inwardly directing flanges with two opposing walls provided with grooves; a wall cut away forming an opening to expose the grooves in parallel opposition to receive the switch base, said grooves holding the top wall at a distance above said base to form a chamber and permitting leads to extend through said opening; and means in the grooves for yieldingly engaging the base to hold the cover in position.

1,945,562

LOCK SWITCH

Harry E. Norviel, Anderson, Ind., assignor to Delco Remy Corporation, Anderson, Ind., a corporation of Delaware

Application August 19, 1931. Serial No. 558,039
8 Claims. (Cl. 200—44)



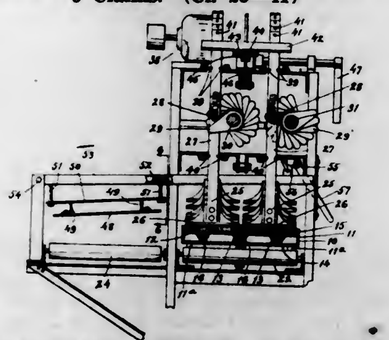
1. A lock switch comprising in combination a lock frame in cylindrical formation; a terminal base telescopically attached to said frame and cooperating with said frame to form an inclosure for an actuating mechanism; said actuating mechanism comprisng a rotary lock member journalled in said frame; an insulating member drivingly connected with said lock member and provided with peripheral notches and a recess interposed between said notches; a bridging member having arms extending into said notches permitting axial movement therewith but preventing rotary movement with respect to said insulating member; and a single coiled spring disposed in said recess and engaging said bridging member for yieldably urging said bridging member toward the terminal base and maintaining the driving connection of said lock member and insulating member.

1,945,563

CONCRETE TAMPING APPARATUS

Thomas J. Owen, Akron, Ohio

Application May 20, 1931. Serial No. 538,715
6 Claims. (Cl. 25—41)



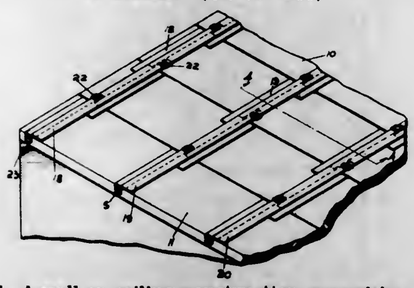
2. Slab-making apparatus comprising a slab mold, means for supporting said mold while being tamped, a troweling plate having a smooth lower surface and inoperatively positioned at one side of the mold, and guiding means for introducing said plate laterally over the mold and lowering it upon the contents thereof and returning it to an inoperative position.

1,945,564

WALL AND CEILING CONSTRUCTION

Louis C. Piazza, Chicago, Ill., assignor to The Soundex Corporation, Chicago, Ill., a corporation of Illinois

Application October 15, 1931. Serial No. 569,085
4 Claims. (Cl. 72—118)



1. A wall or ceiling construction comprising, in combination, a plurality of spaced parallel furring strips, a plurality of covering slabs extending transversely of said furring strips, spaced brackets secured to said slabs, diagonally opposite portions of said brackets projecting beyond said slabs, said brackets being arranged in parallel relationship with their corresponding furring strips, one of said diagonally opposite portions of each of said brackets being supported from a furring strip and the other of said portions being supported by an adjacent slab.

1,945,565

PROCESS OF PRODUCING HEAVY METAL BERYLLIUM ALLOYS

Ernst Pokorny, Leipzig, and Kurt Schneider, Bitterfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application August 11, 1932, Serial No. 628,366, and in Germany September 5, 1931
2 Claims. (Cl. 75—17)

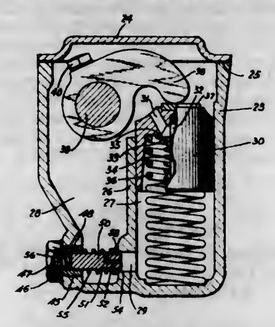
1. A process for the production of iron-beryllium alloys containing beryllium in a quantity of the order of 10 percent which comprises causing a beryllium compound to react with an alloy substantially consisting of between about 40 and about 60 percent of calcium, the remainder being magnesium, in the presence of an iron compound, the quantity of the calcium-magnesium alloy being sufficient to cause by oxidation reduction of the beryllium and the iron compound and the melting of the alloy formed.

1,945,566

SHOCK ABSORBER

Walter W. Riedel, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware

Application October 31, 1929. Serial No. 403,745
9 Claims. (Cl. 267—8)



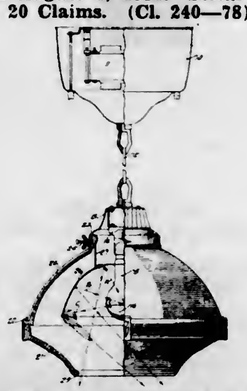
1. A shock absorber comprising in combination, a casing presenting a fluid reservoir and a cylinder; a piston in said cylinder forming a compression chamber therein; a port providing communication between said chamber and reservoir; and a compound fluid pressure release valve for said port comprising a ring-shaped valve-head adapted to engage the peripheral edge of the port; a spring yieldably urging said valve-head to engage the edge of the port, a valve-stem having a reduced end portion upon which the valve-head slidably fits, said stem having a passage one end of which opens into the port the other terminating in the side of the stem so as normally to be covered by the valve head; and a spring of lesser tension of the aforementioned spring urging the valve-stem toward the valve-head normally to maintain the one end of the passage in said stem beneath the valve-head.

1,945,567

ULTRA-VIOLET LIGHT LUMINAIR

Thomas W. Rolph, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware

Application August 1, 1931. Serial No. 554,467
20 Claims. (Cl. 240—78)



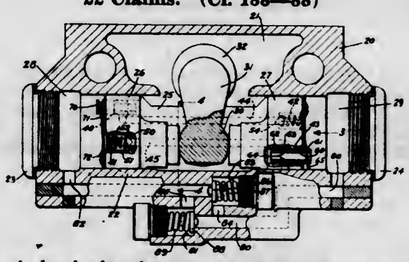
1. A luminair for ultra-violet lighting comprising a lamp adapted to emit both visible and ultra-violet light, a downwardly acting reflector above the lamp for reflecting both forms of light downwardly, and a translucent globe about the lamp and reflector, the globe having a window in the bottom of such size and location as to pass substantially all the reflected light, the globe being spaced from the reflector so as to permit the diffusion of scattered light back of the reflector.

1,945,568

SHOCK ABSORBER

Edwin F. Rossman and Frederick D. Funston, Dayton, Ohio, assignors to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware

Application October 7, 1931, Serial No. 567,394
Renewed May 31, 1932
22 Claims. (Cl. 188—88)



1. A shock absorber comprising, in combination, a casing providing a cylinder; a piston in said cylinder forming a compression chamber therein; a duct leading from said compression chamber; and separate fluid flow control devices in said duct, one entirely closing the duct and adapted to be actuated by fluid pressure, the other in response to variations in temperature.

1,945,569

PRINTING PROCESS AND APPARATUS

George S. Rowell, Cleveland, Ohio, assignor, by mesne assignments, to Multigraph Company, Wilmington, Del., a corporation of Delaware

Application November 28, 1930
Serial No. 498,616
11 Claims. (Cl. 41—46)

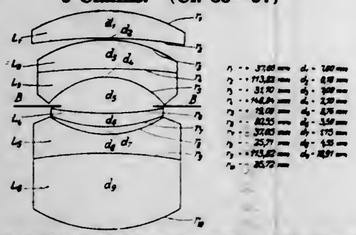
1. In a printing process, the steps of preparing a negative medium for transmission of light to a

suitably treated printing plate, consisting in forming a screen effect on a translucent base, covering the screen effect with an opaque frangible substance and then mechanically fracturing



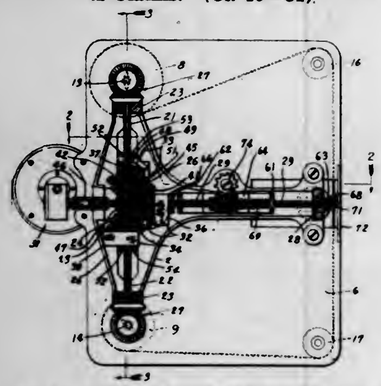
certain portions of such substance to define the images to be printed and in such manner that the image portions will transmit light through the screen effect while the remaining portions will obstruct light.

1,945,570
LENS SYSTEM
Paul Rudolph, Grossbleasnitz, near Gorlitz, Germany
Application September 26, 1932, Serial No. 634,849, and in Germany October 5, 1931
5 Claims. (Cl. 88—57)



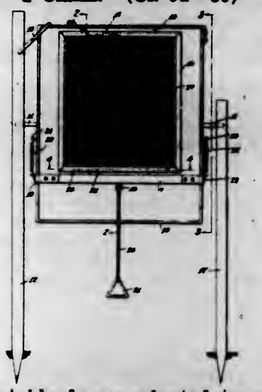
1. A rapid lens system consisting of four components separated from each other by air-spaces, the two internal components being of different sign and serving to bound a bi-convex air space which serves to divide the lens system into two collective members, whose individual components are of opposite sign; at least one of the two meniscus-shaped dispersive components consisting of a collective element and a dispersive element cemented to each other, the dispersive element being made of a glass whose index of refraction is at least 1.59 for n_D.

1,945,571
AUTOMATIC DISPLAY APPARATUS
Stephen Samaras and Louis Ravizza, Oakland, Calif., assignors to Ross W. Dalziel, Oakland, Calif.
Application August 10, 1932. Serial No. 628,148
11 Claims. (Cl. 40—31)



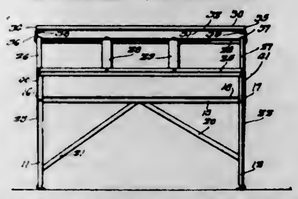
1. In an automatic display apparatus, a pair of reels, a screen arranged to be wound from on one of said reels to the other, a continuously driven drive shaft, and means to effect an intermittent rotation of one of the reels comprising a driving connection between said shaft and a reel, a reciprocative slide operative in one position to render operable and in another to render inoperable said connection, and means on the screen to move said slide periodically from one of said positions to the other.

1,945,572
SCREEN HOLDER
Arthur Sandbrook, Newton, Mass.
Application June 4, 1932. Serial No. 615,413
1 Claim. (Cl. 91—69)



An adjustable frame adapted to receive and hold window screens for painting and to reverse the position of the screen while held in adjusted position, comprising a pair of vertical uprights, a rectangular frame pivoted to said uprights, a sliding cross-bar engaging two sides of the pivoted frame, a pair of springs normally holding the frame in an upright position, and means on the pivoted frame to engage the top of the screen, in combination with a latch to hold the pivoted frame in desired position whereby a screen to be painted may be fitted by depressing the cross-bar and permitting the springs to raise said cross-bar with the top of the screen in frame-holding position.

1,945,573
DISPLAY RACK
William J. Schwartz, Chicago, Ill.
Application October 24, 1932. Serial No. 639,287
3 Claims. (Cl. 211—71)



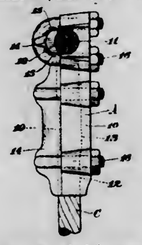
1. A display rack or stand of the character described for pails and the like comprising substantially vertical front legs and obliquely disposed rear legs, a horizontal bracing member connecting the uppermost ends of the front legs, a horizontal bracing member connecting the front legs at a point below the uppermost ends of said legs, a horizontal bracing member extending between and attached to each front and rear leg, said horizontal bracing members attached to and supporting the ends of a shelf, said shelf having a vertical flange at the back and lengthwise thereof, the front of said shelf resting on and supported by the horizontal bracing member extending between and attached to the front legs, said shelf parallel with and adjacent to the front of said rack or stand, a pail supporting means consisting of an open rectangular framework extending between and attached to the uppermost ends of the front legs and the uppermost ends of the rear legs and placed obliquely thereto, said rectangular framework consisting of front and rear angle iron members of said framework, each of said bracing members located at equal distances from each end of said rectangular framework, thereby forming three rectangular openings in said framework.

1,945,574
FOLDING CHAIR
Joseph Silverman, Chicago, Ill.
Application January 25, 1932. Serial No. 588,603
6 Claims. (Cl. 155—144)



2. A folding chair comprising a first pair of legs, a second pair of legs connected thereto, a seat pivoted to said first legs and connected to said second legs, a back at the upper ends of said first legs, guide means secured centrally on said back, and a pair of connecting link members connected between the back and said second legs, said connecting link members having free sliding engagement at their upper ends in said guide means and being pivoted at their lower ends to said second legs.

1,945,575
CABLE CONTACTOR AND SUPPORT
John E. Sumpter, Minneapolis, Minn., assignor to Delta-Star Electric Company, Chicago, Ill., a corporation of Illinois
Application December 22, 1926, Serial No. 156,347
Renewed November 12, 1931
3 Claims. (Cl. 173—273)



3. In combination, a rigid metal base having a groove therein for receiving and gripping an electric conductor, said base having relatively great area of contact with the conductor along said groove and being of a section to provide a conductivity at least equal to that of the conductor to be clamped, a second conductor electrically connected to said first conductor through the conductivity of said base, a clamp plate substantially parallel with the base and comprising a rigid piece of metal having in one side a longitudinally extending groove for receiving and gripping the conductor and for clamping the conductor in the groove in said base over substantially the entire extent of the groove in said base, a U-bolt straddling said clamp plate from the opposite side, a pair of lugs integral with said opposite side of said plate and aligned lengthwise of the plate to receive said bolt, said lugs being of generally triangular shape with the bases thickened lengthwise of the plate and the apices thinned and battered over the bolt to secure said bolt to said plate, and nuts threaded on the legs of said bolt to clamp the conductor between the base and clamp plate and in said grooves.

1,945,576
TREATMENT OF RUBBER
William P. ter Horst, Akron, Ohio, assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a corporation of Connecticut
No Drawing. Original application October 13, 1930, Serial No. 488,560. Divided and this application December 10, 1932. Serial No. 646,712
14 Claims. (Cl. 18—50)

1. A process of treating rubber which comprises incorporating therewith a formic acid derivative of the reaction product of an aliphatic ketone and a secondary aromatic amino compound.

1,945,577
TREATMENT OF RUBBER
William P. ter Horst, Akron, Ohio, assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a corporation of Connecticut
No Drawing. Original application October 13, 1930, Serial No. 488,560. Divided and this application December 10, 1932. Serial No. 646,713
14 Claims. (Cl. 18—50)

1. A process of treating rubber which comprises incorporating therewith a nitroso derivative of the reaction product of an aliphatic ketone and a secondary aromatic amino compound.

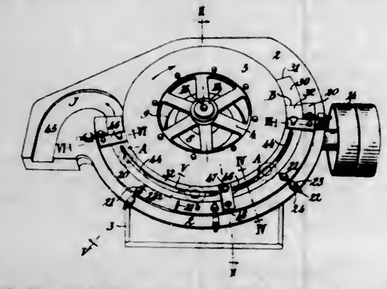
1,945,578
TREATMENT OF RUBBER
William P. ter Horst, Akron, Ohio, assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a corporation of Connecticut
No Drawing. Original application October 13, 1930, Serial No. 488,560. Divided and this application December 10, 1932. Serial No. 646,714
16 Claims. (Cl. 18—50)

1. A process of treating rubber which comprises incorporating therewith the material resulting from combining a naphthol with the reaction product of an aliphatic ketone and a secondary aromatic amino compound.

1,945,579
EDGE CURLING MACHINE
Walter Thoma, Hasbrouck Heights, N. J., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application July 22, 1932. Serial No. 623,975
16 Claims. (Cl. 153—59)

1. Apparatus for curling the edges of disks, comprising curling dies between which a disk is engaged. means adapted to effect a relative rolling movement between said dies and the edge of

said disk, the working surfaces of said dies approaching one another whereby to progressively increase their curling action on the disk edge, and opposed guiding elements adapted to confine the progressively curled edge of said disk in a predetermined operative relationship with re-



spect to said dies, said guiding elements being adapted to afford progressively increasing space between their confining surfaces, so that while effectively supporting the disk, said surfaces progressively accommodate the increasing height of the disk edge as the latter is curled by the action of said dies.

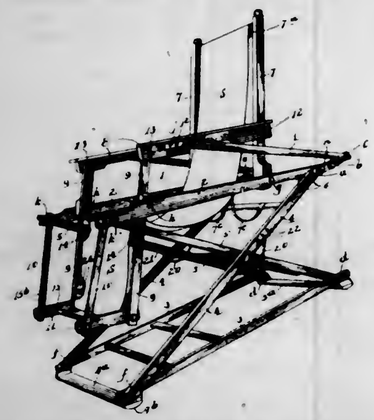
1,945,580

COLLAPSIBLE ROCKING AND RECLINING CHAIR

Eugene Turnai, Jackson Heights, N. Y., assignor of one-half to Alexander Kovacs, Kuruc-Korut, Hungary

Application March 16, 1931, Serial No. 522,808, and in Hungary May 12, 1930

5 Claims. (Cl. 155—67)



1. In a collapsible reclining and rocking chair, a base frame having side-members, front and rear supporting members pivotally attached to said side members and extending upwardly in crossed relation therefrom, chair carrying bars pivotally attached to the upper ends of said supporting members, a seat structure adjustably mounted upon said chair carrying bars; said seat structure including foot-rest, foot-rest supports and back member pivotally mounted upon said chair carrying bars, side-arms pivotally connecting the upper ends of said foot-rest supports to said back members, adjustment rods, means pivotally connecting an end of each adjustment rod to the upper ends of each rear supporting member, a slotted plate fastened to said side arms, and hook members upon the other end of said adjustment rods; the said hook members being adapted to engage said slots in said slotted plate to adjust the inclination of the frame and the seat structure.

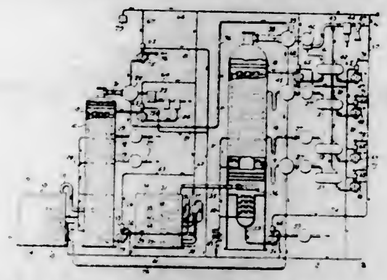
1,945,581

OIL REFINING

John Samuel Wallis, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application July 12, 1930. Serial No. 467,499

3 Claims. (Cl. 196—73)



1. A combined oil heater and steam generator comprising walls forming a setting and means within said setting providing a path of flow of products of combustion, an oil heating section in said path of flow and a steam generating section in said path of flow, the aforesaid sections being arranged in the path of flow so that the products of combustion first contact the oil heating section and then contact the steam generating section; said steam generating section comprising a plurality of horizontal rows of tubes, a steam and water drum, means connecting said tubes with said drum to produce thermo-syphon circulation upon heating of said tubes by the products of combustion, a feed water section in said path of flow behind said tubes section and a superheater section in said path of flow ahead of the said tubes.

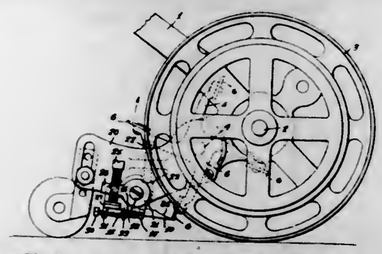
1,945,582

SELF-SHARPENING LAWN MOWER

Warren B. White, North Abington, Mass.

Application October 3, 1932. Serial No. 636,067

1 Claim. (Cl. 56—250)



A self-sharpening lawnmower having a plurality of rotary cutting blades and a fixed adjustable straight shearing blade, said shearing blade having a substantial face portion in the arc of the line of travel of the rotary cutters, and means on said face to effect a continual sharpening action on the rotary blades during the operation of the lawnmower.

1,945,583

SEPARATION OF FINELY DIVIDED IMPURITIES FROM LIQUIDS

Rudolf Wietzel and Bruno Engel, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application January 3, 1930, Serial No. 418,403, and in Germany February 9, 1929

4 Claims. (Cl. 196—147)

1. In the separation of finely divided impurities from liquid hydrocarbon products by filtration, the step of filtering said liquids through finely divided semi-solid carbonaceous residues obtained in the destructive hydrogenation of carbonaceous materials.

1,945,584

PROTECTIVE PAINT OR LACQUER FOR FOOD CONTAINERS

Alberto Williams, Buenos Aires, Argentina, assignor to Swift and Company, Chicago, Ill.

No Drawing. Application May 21, 1932, Serial No. 612,871, and in Argentina September 29, 1931

5 Claims. (Cl. 134—26)

5. In the preparation of protective lacquers for containers, the method which comprises the step of dissolving shellac and rosin in alcohol by suspending the shellac and rosin in the alcohol on a porous tray positioned close to the surface of the alcohol.

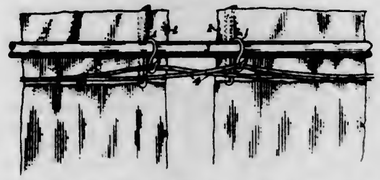
1,945,585

CURTAIN FITTING

Jacob M. Wintrob, Philadelphia, Pa.

Application February 24, 1932. Serial No. 594,827

5 Claims. (Cl. 156—21)



1. A curtain hook device for mounting a drapery or curtain on a rod and adapted to have a draw cord associated therewith, said device being made of an integral strip of spring material having portions adapted to engage and be attached to the heading of a curtain, a curved hook portion extending from the curtain attaching portions for mounting the device on the curtain rod, and a loop portion extending from the free end of the hook portion, the side parts of the loop portion being arranged in close proximity to each other adjacent the bend of the loop whereby the draw cord may be squeezed inwardly and clamped therebetween.

1,945,586

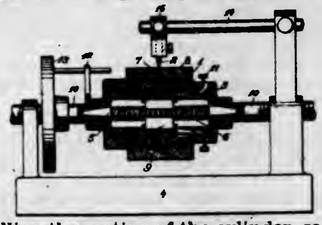
MANUFACTURING GOFFERING CYLINDERS FOR ENGRAVING LENTICULAR ELEMENTS ON FILMS

Hans Arni, Falkensee, near Berlin, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

Application June 7, 1932, Serial No. 615,921, and in Germany June 9, 1931

6 Claims. (Cl. 82—5)

1. A device for manufacturing goffering cylinders for engraving lenticular elements on photographic and cinematographic films comprising a spindle arranged within said cylinder, guide-pieces engaging said spindle, and cooperating elements on said guide-pieces and the spindle



controlling the motion of the cylinder, said guide-pieces being carried by blocks, sunk into a drum, on which the cylinder is conically fitted.

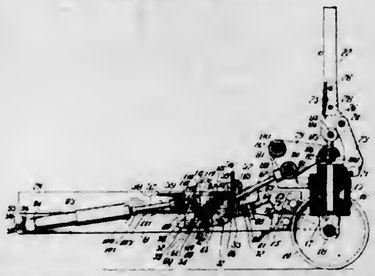
1,945,587

LIFT TRUCK

Arthur M. Barrett, Winnetka, Ill., assignor to Barrett-Cravens Company, Chicago, Ill., a corporation of Illinois

Application August 5, 1926. Serial No. 127,206

33 Claims. (Cl. 254—2)



1. In a lift truck, the combination with a main frame, a lifting frame, and a lifting lever, of means for raising the lifting frame by forward pull through the operation of the lifting lever, comprising an intermediate lever fulcrumed on the main frame and operable by said lifting lever, and a draft element reciprocable in a fore and aft direction by said intermediate lever and having ratchet connection with the lifting frame.

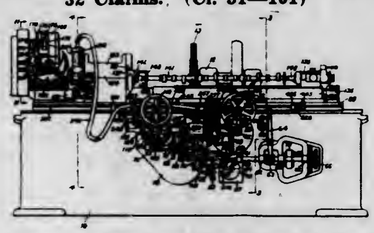
1,945,588

AUTOMATIC CAM GRINDING MACHINE

Albert G. Belden and Charles G. Trefethen, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application April 16, 1932. Serial No. 605,708

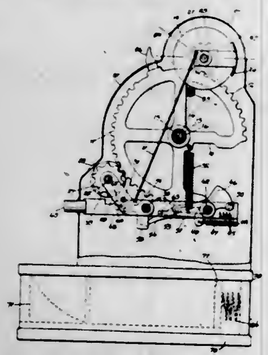
32 Claims. (Cl. 51—101)



1. A cam grinding machine comprising a rotatable grinding wheel, means to rotate a camshaft having a plurality of spaced cams thereon in operative relation to said wheel, means to intermittently traverse the shaft in one direction

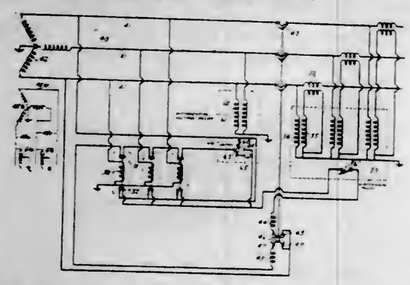
and successively position said cams opposite to the grinding wheel, means to automatically feed the grinding wheel toward the camshaft for grinding said cams, and means actuated automatically after all of the cams have been traversed past the wheel to reverse the direction of traverse and intermittently and successively position said cams again opposite to the grinding wheel for a further grinding operation.

1,945,589
CASH REGISTER
Tord Erik Daniel Bilde and Sten Eric Lindvall, Stockholm, Sweden
Application February 28, 1929, Serial No. 343,512, and in Sweden March 1, 1928
6 Claims. (Cl. 235—2)



1. In a cash register, set-up mechanism comprising a plurality of set-up members, spring actuated means for returning each set-up member to zero position, a spring actuated catch member for each set-up member, a releasable locking member common to all said catch members, a bar for operating said locking member and locking means actuated by any one of said set-up members for securing said bar in locked position.

1,945,590
ELECTRICAL DISTRIBUTION SYSTEM
Josiah A. Brooks, Bay Side, and Edgar A. Cerf, Jr., Brooklyn, N. Y., assignors to Brooklyn Edison Company, Inc., Brooklyn, N. Y., a corporation of New York
Application June 19, 1931. Serial No. 545,414
16 Claims. (Cl. 171—97)



10. In a polyphase, alternating current distribution system, a utilization circuit, a supply feeder therefor, a circuit interrupting device connected between said feeder and said utilization circuit, a loss of voltage relay adapted to actuate said circuit interrupting device in response to a predetermined voltage drop, means for applying to said loss of voltage relay a voltage proportional to the voltage of said supply feeder whereby to cause said relay to operate when a predetermined voltage drop occurs in said feeder and means responsive to unbalanced conditions in certain phases of said supply feeder for independently operating said circuit interrupting device.

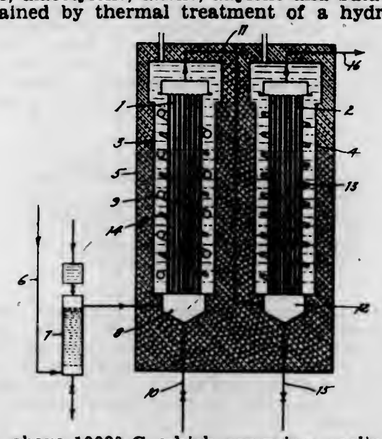
16. In a polyphase distribution system, comprising a utilization circuit and a supply feeder, a circuit breaker for disconnecting said feeder from said utilization circuit, a polyphase directional relay responsive to the direction of polyphase power flow in said system, a single phase directional relay responsive to the direction of power flow in one phase of said system, said relays being adapted to trip said circuit breaker upon reversal of polyphase power flow with respect to the power flow in said one phase, a load, and means to supply said load to said one phase to thereby cause reversal of flow of polyphase power with respect to the direction of flow of single phase power in said one phase for operating said relays.

1,945,591
ELECTRICAL DISTRIBUTION SYSTEM
Josiah A. Brooks, Douglaston, and Edgar A. Cerf, Jr., Brooklyn, N. Y., assignors to Brooklyn Edison Company, Inc., Brooklyn, N. Y., a corporation of New York
Application May 13, 1932. Serial No. 611,006
15 Claims. (Cl. 175—294)

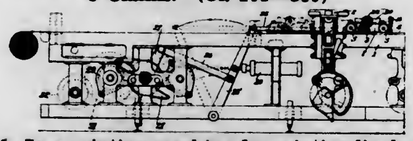
1. In an alternating current distribution system comprising a utilization circuit supplied by an alternating current feeder through a circuit breaker, the method of protecting the utilization circuit against short circuits on the feeder which comprises causing said circuit breaker to open only in response to a loss of voltage on the feeder accompanied by a flow of power from the utilization circuit to the feeder.

1,945,592
PURIFICATION OF ACETYLENE
Hanns Bueckert, Ludwigshafen-on-the-Rhine, Robert Stadler, Ziegelhausen, and Helmut Tanneberger, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application November 19, 1931, Serial No. 576,098, and in Germany November 20, 1930
3 Claims. (Cl. 183—115)

2. A process for increasing the concentration of acetylene in a gas mixture containing acetylene, diacetylene, allene, allylene and butadiene, obtained by thermal treatment of a hydrocarbon above 1000° C. which comprises cooling the gas mixture to a temperature of about —70° C.



1,945,593
PRINTING MACHINE FOR LINOLEUM, TEXTILES, AND THE LIKE
Lynn B. Case, New Brunswick, N. J., assignor to John Waldron Corporation, New Brunswick, N. J., a corporation of New Jersey
Application March 19, 1932. Serial No. 599,894
3 Claims. (Cl. 101—360)

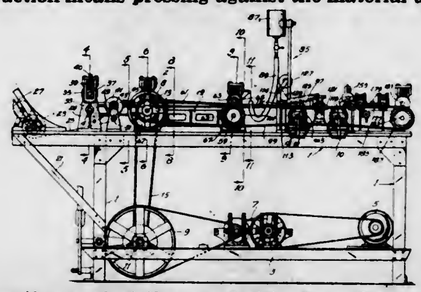


1. In a printing machine for printing linoleum, textiles and the like, an inking roll, a pan for said roll, carriages for said pan and roll, a frame, reciprocating sliding elements sliding in said frame, means for reciprocating said sliding elements, indicating slots in said sliding elements to indicate the proper position of said carriages with respect to said sliding elements, pins carried by said carriages and cooperating with said slots to connect said carriages to said sliding elements and position same, springs for maintaining said pins in said slots.

1,945,594
METHOD OF AND APPARATUS FOR MANUFACTURING TUBING
Philip H. Chase, Bala-Cynwyd, John R. Falconer, Conshohocken, and William O. Cunningham, Pottstown, Pa.; said Falconer and said Cunningham assignors to said Chase
Application November 23, 1929
Serial No. 409,269
13 Claims. (Cl. 113—34)

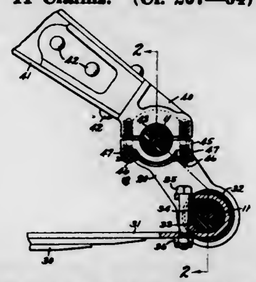
1. A method of manufacturing light tubing of a thickness of the order of a few thousandths of an inch comprising moving a strip of material, flanging the edges of said material, curling the material so that the flanged edges are juxtaposed, applying a strip of non-liquid metal sealing material between the juxtaposed edges, joining said flanged edges as a seam so as to substantially enclose the sealing material after the interposed seaming material has been applied and heating the seam to cause the sealing material to melt and to effect a seal without escaping.

8. In a tube-forming machine, a mandrel, means for guiding a strip of material toward said mandrel, curling means including in said guiding means, curling taking effect over said mandrel, means for forming a seam as the material curls over said mandrel, resiliently surfaced traction means pressing against the material and



reacting against the mandrel to draw the material over the mandrel and forming rolls engaging the seamed material on the mandrel to provide a predetermined shape of the same as said material leaves the mandrel.

1,945,595
SHACKLE
Ralph H. Chilton, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a corporation of Delaware
Application November 11, 1929
Serial No. 406,321
11 Claims. (Cl. 267—54)

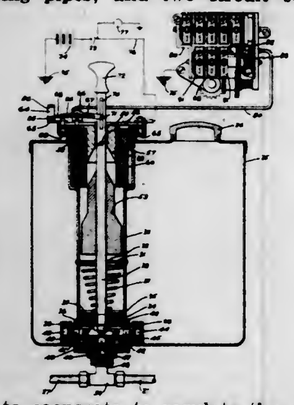


1. An extension shackle unit capable of being attached in assembled form to connect two relatively movable parts, comprising: two transverse metal sleeves, resilient rubber bushings within said sleeves having enlarged heads projecting beyond and encasing the two end portions of said sleeves respectively, two side links having end recesses encasing and confining said enlarged heads, pins extending through each of said rubber bushings and engaging said side links, and means for clamping said side links laterally toward each other to highly compress said resilient bushings and cause axial elongation of said enlarged heads thereof, the central portions of said metal sleeves being left unobstructed to permit attachment thereto of said two relatively movable parts respectively.

1,945,596
AUTOMATIC LUBRICATING SYSTEM
William A. Chryst, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware
Application February 19, 1931. Serial No. 516,881
3 Claims. (Cl. 184—7)

1. A lubricating system for the chassis of a vehicle having an odometer, of a plurality of lubricant distributing pipes; a lubricant reservoir; a plunger pump; an electromagnet adapted to operate the plunger pump through its stroke

to withdraw lubricant from the reservoir; a spring adapted to operate the plunger pump through its stroke to force lubricant into the distributing pipes; and two circuit controllers



adapted to cooperate to regulate the operation of the electromagnet, one of said controllers being directly operated by the pump, the other by the odometer.

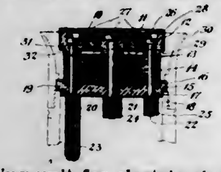
1,945,597

CIGAR-LIGHTER

Joseph H. Cohen, Bridgeport, Conn.

Original application October 4, 1926, Serial No. 139,354. Divided and this application June 7, 1928. Serial No. 283,628

8 Claims. (Cl. 219—32)



6. A heating unit for electric cigar-lighters for house currents, comprising a resistance element; a resistance element holder of high proof refractory material; an insulator supporting said resistance element holder, said insulator being non-conductive of heat; a base member for supporting said insulator; and bolts passing through the resistance holder, insulator, and base member adapted to hold the same together as a unit, at least one of said bolts being electrically connected with one end of the resistance elements and having at its lower end a contact lug.

1,945,598

LATHE HEADSTOCK

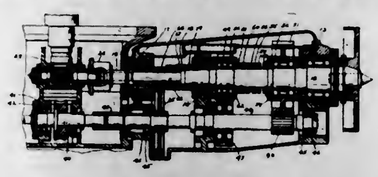
Lyndon C. Cole, Hamilton, Ohio, assignor to General Machinery Corporation, Hamilton, Ohio, a corporation of Delaware

Application March 27, 1931. Serial No. 525,736

5 Claims. (Cl. 82—29)

1. In a lathe, a drive motor having a vertical shaft, a headstock, a horizontal work spindle rotatably mounted on said headstock, worm and worm gear drive means between said motor shaft and spindle to drive the spindle at a speed greater than motor speed, a shaft operated by said motor and extending parallel to said spindle, and means connecting said shaft and spindle for driving the spindle at lower speed.

3. In a machine tool having a spindle adapted to be rotated at various speeds, a worm fixed to said spindle, a worm gear meshing with said worm, the worm and worm gear being such as to cause the rotation of the spindle at speeds greater than the worm gear speeds, an electric motor having a shaft operating said worm gear, an auxiliary shaft parallel to said spindle, intermediate and low speed gearing on the auxiliary shaft



and on the spindle selectively operable to drive the spindle at intermediate and low speeds, clutch means for selecting the intermediate and low speed gearing, a driving connection from said auxiliary shaft to said motor shaft, and clutch means for disconnecting the worm gear from the motor shaft.

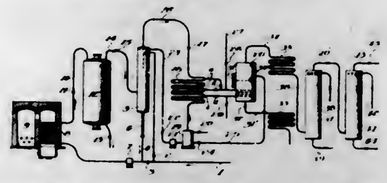
1,945,599

STABILIZATION OF LIGHT DISTILLATE PRODUCED IN DISTILLING OR CRACKING HYDROCARBONS

Ralph C. Cook, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Application March 27, 1929. Serial No. 350,414

2 Claims. (Cl. 196—11)



1. A process for treating the gasoline-like vaporous product produced in the cracking of hydrocarbon oils which comprises subjecting the same to condensation in a condensing zone and separating the resultant distillate from the fixed gases, withdrawing a portion of the vaporous products from said zone, moderately heating said distillate by passing in heat exchange relation therewith the portion of the vaporous product withdrawn from the condensing zone, said heating being of such character as to remove from the distillate dissolved gases and vapors lighter than gasoline, returning said portion of the vaporous products to the condensing zone, and collecting the unvaporizd stabilized distillate independently of the evolved vapors and gases.

1,945,600

CONTACT APPARATUS

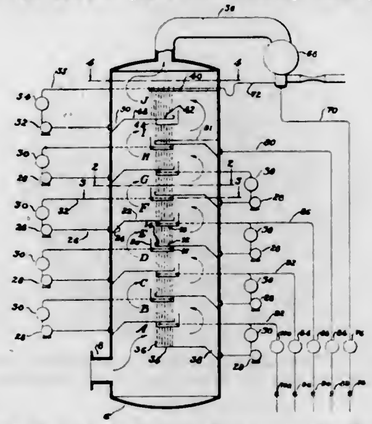
George B. Coubrough, Long Beach, Calif., assignor, by mesne assignments, to The Lummus Company, a corporation of Delaware

Application November 16, 1929, Serial No. 407,670

Renewed July 12, 1933

5 Claims. (Cl. 261—111)

1. A contact apparatus comprising a tower, a plurality of trays in the tower, each tray including a perforated shower plate and a superposed collecting plate, means for continuously circulating liquid collected on the collecting plate of each tray to the perforated shower plate of the tray next above, means permitting overflow of a portion of the liquid from each collecting plate directly to the shower plate immediately below, and



means for passing vapors transversely through the showers.

1,945,601

GLASS APPARATUS

John L. Drake, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application August 11, 1927. Serial No. 212,210

3 Claims. (Cl. 49—54)



1. In apparatus of the character described, means for diminishing the lowering of the level of a body of molten glass in a tank during the removal of glass therefrom, including a vertically movable displacing member, a vertical shaft carrying said member at its lower end, a housing for receiving the upper end of the shaft therein, a plunger carried by said shaft within said housing, and fluid actuated valve mechanism carried by said plunger for causing a gradual lowering of the member to displace a gradually increasing volume of glass.

1,945,602

EXTENSION CORD REEL

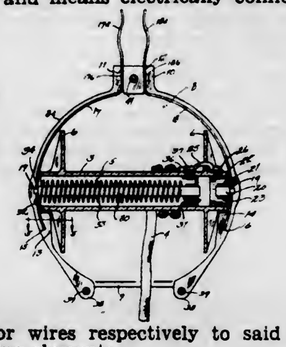
Gottfried Fisler, Cleveland, Ohio

Application November 30, 1932

Serial No. 645,004

9 Claims. (Cl. 173—367)

1. An extension cord reel for the purposes described, comprising a hollow casing, a pair of conducting elements mounted in said casing at opposite sides thereof, said elements being insulated from each other, end portions of said conducting elements protruding exteriorly of the casing and forming sabre blades for engagement with a wall socket, a spool within said casing intermediate said elements, spindles on the respective ends of said spool, insulated from each other, rotatably supported in said elements respectively, said spool having an extension cord of insulated conductor wires wound thereon, spring means for rotating said spool for reeling said cord thereon, said spring means being tensioned consequent upon rotation of said spool by unreeling said cord, means operatively connecting the conductor wires of said cord to the spool for winding and unwinding thereon when the spool is rotated, and means electrically connecting said



conductor wires respectively to said respective conducting elements.

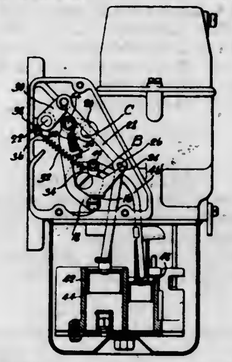
1,945,603

CARBURETOR THROTTLE OPERATING MECHANISM

Frederick D. Funston, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware

Application May 31, 1930. Serial No. 457,812

9 Claims. (Cl. 123—119)



1. A carburetor for internal combustion engines comprising a mixture passage, means for supplying fuel and air thereto, a throttle, an auxiliary air valve for supplying additional air to said mixture passage as the throttle is opened, means for operating said auxiliary air valve by the throttle, said means including an operating member connected to the auxiliary air valve and so constructed that the point of connection moves in a substantially arcuate path when the valve is moved, means providing limited clearance at said point of connection, and means for adjusting the amount of clearance.

1,945,604

HYDROCARBON OIL CONVERSION

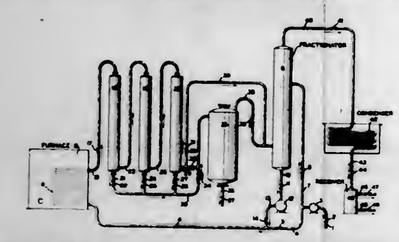
Donald F. Gerstenberger, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Application April 4, 1932. Serial No. 602,904

3 Claims. (Cl. 196—60)

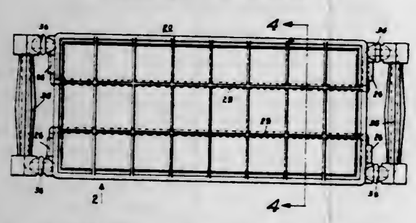
1. A hydrocarbon oil cracking process which comprises heating the oil to cracking temperature under pressure while flowing in a restricted stream through a heating zone, discharging the heated oil into the upper portion of an unheated vertically elongated reaction zone maintained

under cracking conditions of temperature and pressure, passing the vapors and unvaporized oil downwardly through the reaction zone and separately removing the vapors and unvaporized oil from the lower portion of the reaction zone, introducing the vapors to the upper portion of a second vertically elongated reaction zone maintained under cracking conditions of temperature and pressure, passing the vapors downwardly through the second reaction zone and removing the same from the lower portion thereof, passing the un-



vaporized oil withdrawn from the first-mentioned reaction zone and such liquid constituents as are formed in the second reaction zone to a vaporizing zone maintained under lower pressure than the reaction zones and distilling the same therein, supplying the vapors evolved in the vaporizing zone and the vapors withdrawn from the second reaction zone to a common fractionating zone and fractionating the admixed vapors therein, returning resultant reflux condensate to the heating zone for recycling through the process, and finally condensing the fractionated vapors.

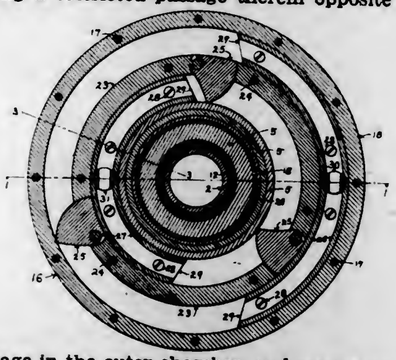
1,945,605
FREEZING TRAY
Harvey D. Geyer, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a corporation of Delaware
Application May 2, 1931. Serial No. 534,472
15 Claims. (Cl. 62—108.5)



11. A freezing tray comprising: a flexible nonmetallic container and a relatively rigid metal support therefor, said metal support being secured to said container only at two opposed end walls of said container whereby to form a unitary construction but still permit separation of said support and container at intermediate portions thereof.

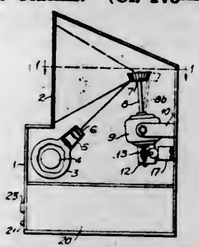
1,945,606
FLUID BRAKE
Stephen A. Gudgeon and James B. Wemmer, La Farge, Wis.
Application August 5, 1932. Serial No. 627,552
15 Claims. (Cl. 188—90)

1. In a fluid brake, a casing, a rotor rotatably mounted in the casing provided with means dividing the casing into concentric annular chambers, means in the outer chamber providing a restricted passage therein, means in the inner chamber providing a restricted passage therein opposite the



passage in the outer chamber, and means on the rotor for forcing fluid through said passages.

1,945,607
TELEVISION RECEIVER
William J. Herdman, South Orange, N. J., assignor to Wired Radio, Inc., New York, N. N. Y., a corporation of Delaware
Application December 17, 1931
Serial No. 581,607
2 Claims. (Cl. 178—6)

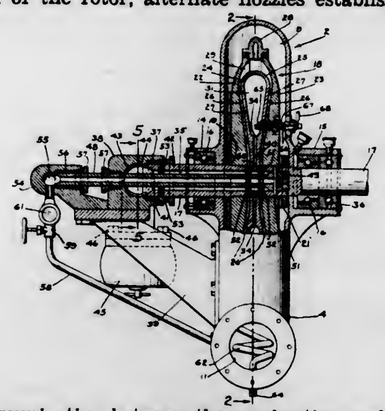


1. Television apparatus comprising, a synchronous motor, means for producing a beam of light, a reflector element supported and rotatably driven by said motor for causing said beam of light to move, by reflection, along one axis of a viewing screen, and mechanical means for moving said motor and said reflector element supported thereby for causing said beam of light to move, by reflection, in the other axis of said viewing screen, said mechanical means being driven by said motor.

1,945,608
CONSTANT PRESSURE REACTION GAS TURBINE
Roscoe G. Hill, River Falls, Wis., assignor of one-fourth to Hulda Nordstrom, Minneapolis, Minn.
Application November 6, 1931. Serial No. 573,403
6 Claims. (Cl. 60—42)

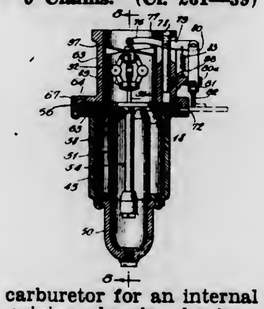
2. In an engine of the class described, a casing having an exhaust chamber therein, a shaft having a bore therein, a rotor mounted on said shaft and comprising inner and outer walls, said inner walls defining an annular combustion chamber, means connected to said bore for delivering a combustible fuel to the combustion chamber, the outer rotor walls cooperating with the inner walls thereof to provide a fluid-circulating chamber substantially surrounding the combustion chamber, a fluid supply pipe axially mounted within said bore and adapted to deliver a suitable

cooling fluid to said fluid-circulating chamber, and a plurality of nozzles mounted in the outer wall of the rotor, alternate nozzles establishing



communication between the combustion and exhaust chambers, and the remaining nozzles establishing communication between the exhaust chamber and said fluid circulating chamber.

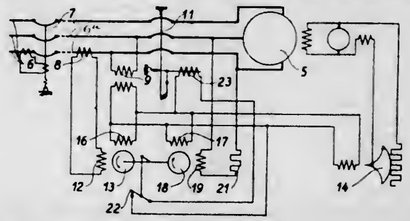
1,945,609
CARBURETOR
Zachariah S. Hoffman, Essex County, N. J.
Application March 4, 1930. Serial No. 433,020
9 Claims. (Cl. 261—39)



1. In a carburetor for an internal combustion engine, a mixing chamber having an air inlet and a fuel inlet, means for simultaneously opening and closing said inlets, and means actuated by mixture flow through the chamber for reducing the relative opening of the fuel inlet with respect to the air inlet as the rate of mixture flow increases.

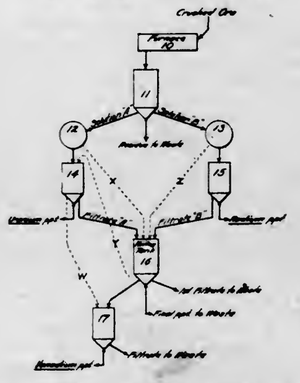
1,945,610
PROTECTIVE SYSTEM FOR SYNCHRONOUS MOTORS
Robert Keller, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application December 11, 1928, Serial No. 325,247, and in Germany December 19, 1927
6 Claims. (Cl. 175—294)

1. In a system for protecting synchronous motors connected to transmission lines, an A. C. line, a synchronous motor, an excitation circuit for said motor, a switch adjacent said motor, transformers having the primary coils thereof in operative relation with said line, a holding coil for said switch connected to the secondary coil of one of said transformers and normally energized therefrom for retaining said switch in connected position, a differential relay connected to said transformers for de-energizing said holding coil to permit disconnecting said switch, one portion



of said differential relay being actuated in dependence on the conditions in said line and the other portion of said relay being influenced by the conditions in said said excitation circuit of said motor.

1,945,611
PROCESS FOR TREATING VANADIUM ORES
Charles Knight and Arden M. Wilson, Denver, Colo.
Application November 21, 1930
Serial No. 497,213
10 Claims. (Cl. 23—18)

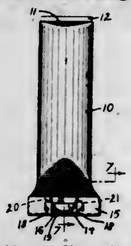


1. A process for the treatment of vanadium bearing ores comprising: first treating said ores with an alkaline bath; filtering; removing alkaline filtrate; treating the residual pulp with an acid bath; again filtering; removing acid filtrate; removing uranium from the alkaline filtrate; removing radium from the acid filtrate; then admixing the remaining alkaline and acid filtrates in the presence of iron and in such proportions that a neutral solution results to precipitate the vanadium.

1,945,612
CLOSING MEANS FOR COLLAPSIBLE TUBES
John Lacher, Omaha, Nebr.
Application April 18, 1932. Serial No. 605,924
5 Claims. (Cl. 221—60)

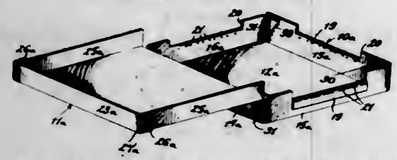
1. The combination with a collapsible tube having terminal portions of its side-walls flattened into contacting relation, of a clip having a rigid body clamped about said flattened terminal portions, said body having an opening therein exposing one of said flattened terminal wall-portions, and a resilient member having end portions held by said clip and an intermediate portion extending across said opening and pressing yieldingly upon said exposed wall-portion to

normally hold the same in flat formation and to return the same to contacting relation with the



opposite wall-portion after distortion thereof by pressure from the contents of the tube.

1,945,613
PILFERPROOF BOX
James P. H. Leavitt, New Haven, Conn.
Application November 4, 1931. Serial No. 572,899
4 Claims. (Cl. 229—47)



1. A box of the character described, comprising a box body having a bottom and side walls rising from said bottom, a cover body having a top and at least one side wall depending from said top and adapted to fit over at least one of said box body side walls, and an outwardly and downwardly deflected portion formed in said box body side wall by slitting said box body side wall downwardly from its upper edge at two places and bending the intermediate part downwardly and outwardly to form said deflected portion, said deflected portion being arranged between said box body and cover body side walls and said deflected portion being adapted to be secured at its lower end to said cover body side wall by fastenings extending therethrough.

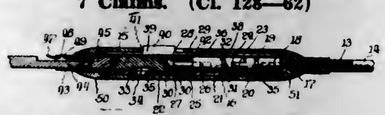
1,945,614
LUBRICATING OIL
Bert H. Lincoln, Ponca City, Okla., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
No Drawing. Application March 21, 1932
Serial No. 600,368
1 Claim. (Cl. 87—9)

A lubricant comprising in combination a hydrocarbon oil existing as an iso-colloidal system having an external and an internal phase, and from 35 to 100 grams per gallon of said oil of a deflocculating agent adapted to increase the dispersion of the internal phase, said deflocculating agent consisting of an oxidation product obtained by oxidizing a stereometrical isomeride of oleic acid with potassium permanganate, said stereometrical isomeride being obtained by reacting oleic acid with nitrous acid.

1,945,615
LUBRICATING OIL
Bert H. Lincoln and Alfred Henriksen, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
No Drawing. Application July 14, 1932
Serial No. 622,462
2 Claims. (Cl. 87—9)

1. A lubricating oil of improved film strength comprising in combination a hydrocarbon oil and a small quantity of a condensation product obtained by condensing with an alkali condensing agent, a halogenated wax with a halogenated wax, said condensation product containing a small amount of halogen in organic combination.

1,945,616
DENTAL DEVICE
Conrad D. Mastrud, Chicago, Ill.
Application April 3, 1933. Serial No. 664,141
7 Claims. (Cl. 128—62)



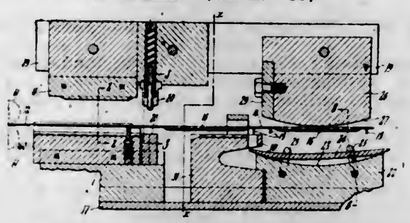
5. In a device of the character described, the combination of a casing adapted to be conveniently held stationarily in an operator's hand during use of the device, an applicator, rotary drive means, power translating means in said casing connected with said drive means and with said applicator for converting rotary motion of said drive means into oscillatory movement of said applicator about the longitudinal axis of said applicator.

1,945,617
OPHTHALMIC MOUNTING
John N. Nelson, Cranston, R. I., assignor to Universal Optical Corporation, a corporation of Rhode Island
Application February 24, 1931. Serial No. 517,770
4 Claims. (Cl. 88—42)



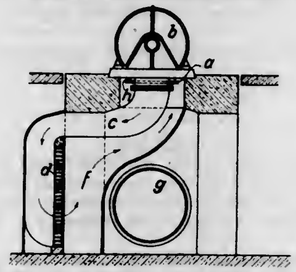
1. In an ophthalmic mounting, a pair of spaced lens holders, each having a part engaging the inner edge of the lens, a reinforcing block member grooved on its inner face to fit and be mounted on each of said lens holders, a guard arm attached to the outer face of said block, and a bridge having one of its ends extending thru each of said blocks and lens holders to rivet the whole in assembled relation, each block being of a size greater than the end of said guard arm or said bridge to reinforce the connection at the point of assembly.

1,945,618
MACHINE FOR MAKING LONGITUDINALLY CURVED REENFORCED SHANK STIFFENERS
William H. Nickerson, Newton, Mass.
Application September 1, 1933. Serial No. 687,805
6 Claims. (Cl. 12—60)



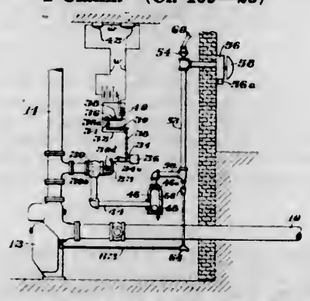
1. A machine for making longitudinally curved reenforced shank stiffeners, including uniting and bending mechanism comprising a lower bending die having a longitudinally concave pressing and clinching face, means for positioning the non-metallic body portion of a shank stiffener thereon, an upper bending die having a convex pressing face, and means associated with said dies for severing, from a previously pronged metal strip, a reenforce having prongs at its opposite end portions, said dies being relatively movable to cause the upper die to force the reenforce prongs into the body portion, bend the reenforce and body portion and thereby impart a longitudinal curvature to the stiffener, and clinch the prongs of the reenforce to maintain said curvature.

1,945,619
INSTALLATION FOR RECOOLING THE COOLING AIR IN CIRCULATING AIR COOLING INSTALLATIONS
Hermann Ortmeyer, Berlin, Germany
Application October 14, 1930, Serial No. 488,564, and in Germany October 22, 1929
3 Claims. (Cl. 171—252)



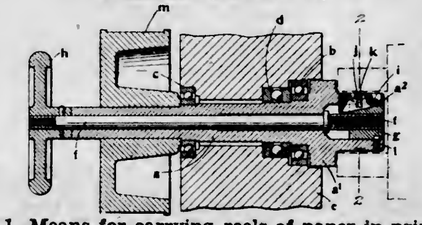
1. Closed air circulation cooling system for electrical machinery comprising in combination an electrical machine, a foundation supporting said machine, a cooler having the form of a thin vertical wall arranged in front of the outer wall of said foundation, the side of said cooler, where the air escapes, extending in vertical direction, and freely accessible water chambers associated with said cooler and a cold air conduit and a hot air conduit extending between said cooler and said electrical machine, said two conduits being curved to leave a large freely accessible space below said electrical machine and below said cold air conduit.

1,945,620
FIRE PROTECTIVE SYSTEM
Benjamin Richards, Kenilworth, Ill., assignor to "Automatic" Sprinkler Company, Cleveland, Ohio, a corporation of Delaware
Application October 1, 1927. Serial No. 223,406
1 Claim. (Cl. 169—23)



A fire protective system, having in combination a dry pipe system with dry pipe valve having an intermediate chamber; an alarm system; and conduit connections between the two systems including a conduit leading from the air side of the dry pipe valve and a second conduit leading from the intermediate chamber thereof; means controlling the first mentioned conduit comprising a releasing device actuated by a change of temperature of predetermined character and extent to open the entrance to said conduit, whereby air from the dry pipe system is admitted to the alarm system; a valve adapted to close said first mentioned conduit, actuated by liquid therein consequent upon the opening of the dry pipe valve; and a valve in the second conduit adapted to be closed by fluid pressure in the first conduit, as when air is flowing therein, and to be opened by pressure of liquid therein, entering from the intermediate chamber after opening of the dry pipe valve.

1,945,621
MEANS FOR CARRYING REELS OF PAPER IN PRINTING AND OTHER MACHINES
John Shaw, Leeds, England
Application June 11, 1932, Serial No. 616,693, and in Great Britain July 31, 1931
3 Claims. (Cl. 242—72)



1. Means for carrying reels of paper in printing and other machines, comprising a frame, a supporting spindle rotatably mounted in said frame and having a cylindrical extremity for insertion within the bore of the reel, a plurality of seatings formed in the said cylindrical extremity, a plurality of reel gripping dogs mounted to be radially and slidably movable in the said seatings and provided at their inner ends with surfaces inclined to the axis of the spindle, a cylindrical bore in the said cylindrical extremity, and a cylindrical dog-adjusting element slidably fitted within the said bore and formed with inclined surfaces for engaging the corresponding surfaces provided upon the radially movable dogs for adjusting the said dogs into engagement with the bore of the reel to be supported.

1,945,622
CROSS SHAFT
John Sneed, Ferndale, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio, as trustee for Steeldraulic Brake Corporation, Detroit, Mich., a corporation of Michigan
Application July 11, 1929. Serial No. 377,417
14 Claims. (Cl. 64—29)



1. A built up brake operating cross shaft comprising a pair of semi-tubular members having longitudinally extending flanged edge portions and flared out ends having outwardly extending flange portions lying in a plane at right angles

to the plane of said first named flanged portions, means for holding said semi-tubular members in abutting relation with their longitudinally extending flanged portions adjacent and their corresponding end flanges lying in the same plane, a pair of end bearing supporting members having integrally formed bearing portions and means for maintaining said end members in abutting relation to said end flanges with the axes of said integrally formed bearing portions lying along the common longitudinal axis of said semi-tubular members.

1,945,623

ELECTRODEPOSITION OF ALKALINE EARTH METAL COMPOUNDS ON METAL

Emil Theisz, Budapest, Hungary, assignor to Egyesült Izzólámpa és Villamossági Részvénytársaság, Ujpest, near Budapest, Hungary

No Drawing. Application April 18, 1932, Serial No. 606,080, and in Hungary, Germany, and Austria April 22, 1931

13 Claims. (Cl. 204—1)

1. The method of depositing alkaline earth metal carbonates on metal comprising connecting said metal as electrode in an aqueous non-acid solution containing alkaline earth metal cations and carboxylic acid anions and passing a current through said solution in a manner to cause deposition of the carbonate on the electrode.

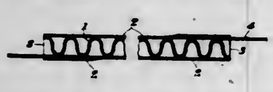
1,945,624

TAPED PAPER BOARD

Joshua Wagner, Brooklyn, N. Y., assignor to Diagonal Corrugated Patent Corporation, Brooklyn, N. Y., a corporation of New York

Application August 13, 1931. Serial No. 556,770

8 Claims. (Cl. 154—33)



1. Paper board made up of superposed sheets and having interleaved between certain of said sheets a tape strip running along a side edge of the paper board and projecting laterally beyond such side edge.

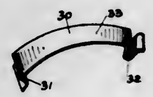
1,945,625

TYPE RETAINING DEVICE FOR PRINTING MACHINES

Erwin H. Aldinger and Walter E. Friedrichs, Philadelphia, Pa.

Application September 7, 1932. Serial No. 631,962

5 Claims. (Cl. 101—377)



1. As a new article of manufacture, a retaining device for detachably securing an electro-type plate to the T-grooved surface of the type drum or plate of a printing machine, formed from spring strip metal with a pendant L-shaped projection at one end to engage in a groove of the type drum or plate, an open top pendant loop tongue at the opposite end to engage in another groove in the type drum or plate, and a connecting portion above the surface of the drum or plate to engage a corner of the electro-type plate.

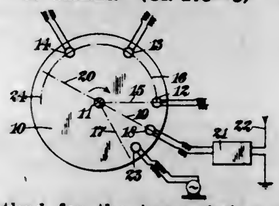
1,945,626

TELEVISION SYSTEM

John Logie Baird, London, England, assignor of one-half to Television Limited, London, England, a British company

Application January 6, 1928. Serial No. 244,963, and in Great Britain January 26, 1927

10 Claims. (Cl. 178—5)



1. A method for the transmission of images consisting in exploring simultaneously individual luminous points in different portions of an image, recording simultaneously the explored individual luminous points in the different portions of the image, sending successively the recorded portions of the image, and reproducing simultaneously the individual luminous points in different portions of the image thus sent.

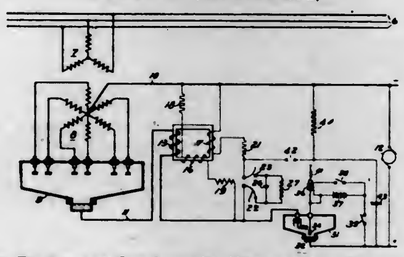
1,945,627

ELECTRIC CURRENT RECTIFYING SYSTEM

Gustav Brunner, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland

Application January 28, 1932, Serial No. 589,336, and in Germany January 29, 1931

4 Claims. (Cl. 175—294)



1. In an overload protective system for direct current circuits, an electric valve of the metallic vapor arcing type connected with the circuit, a condenser arranged for connection in parallel with the arc within said valve to extinguish such arc, a discharge circuit for said condenser, a spark gap for connecting said condenser with said discharge circuit upon the impression of potential of predetermined voltage thereon, and a transformer for impressing such voltage on said spark gap as to cause breaking down thereof, said transformer comprising a core, a winding energized by the current flowing in the circuit and magnetizing the core in one direction, a second winding connected with said spark gap, and a third winding energized from the direct current voltage in the circuit.

1,945,628

ELECTRICALLY HEATED DEVICE

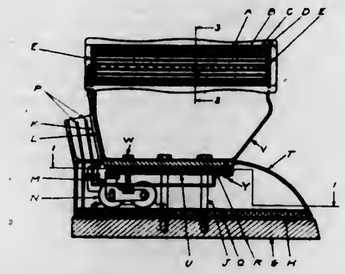
Carl N. Clement, Beverly, Mass.

Application July 23, 1929. Serial No. 380,317

4 Claims. (Cl. 219—25)

1. An electrically heated device having a heating circuit of adjustable resistance, a thermopile

mounted outside said device, heat conductive members extending between said device and ther-



mopile, and an electrically controlled switch associated with the thermopile and acting to govern said adjustable resistance.

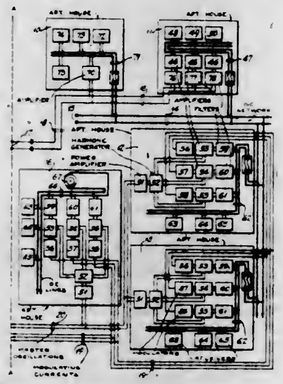
1,945,629

WIRED RADIO BROADCASTING SYSTEM

Robert D. Duncan, Jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware

Application June 3, 1931. Serial No. 541,769

4 Claims. (Cl. 179—2.5)



2. A wired radio broadcasting system comprising, an alternating current distribution network, a direct current distribution network, a common source of master radiofrequency oscillating currents, a source of audiofrequency modulating currents, means in the geographic vicinity of said alternating current network adapted to combine said audiofrequency modulating currents and said radiofrequency oscillating currents and adapted to impress said resultant modulated radiofrequency currents on said network, lines extending from said source of audiofrequency modulating currents to at least one point located in the geographic region of said direct current network and adapted to convey said modulating currents to said point, lines extended from said source of master oscillating currents to said point located in the geographic region of said direct current network, means in the geographic vicinity of said direct current network adapted to combine said modulating currents and said master oscillating currents and impress the resultant modulated radiofrequency current on a localized area of said direct current network.

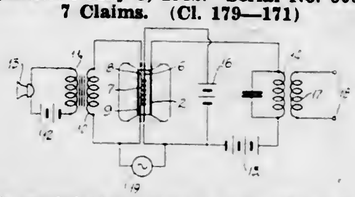
1,945,630

MODULATION SYSTEM

Robert D. Duncan, Jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware

Application May 5, 1932. Serial No. 609,358

7 Claims. (Cl. 179—171)



6. A modulation system comprising, a space discharge tube having a substantially cylindrical anode and a cathode axially disposed thereof for producing an electronic stream, a helically formed control electrode positioned between said cathode and said anode, a source of steady potential electrical energy connected between said cathode and said anode, a source of variable electrical energy connected between said control electrode and said cathode for producing an electrostatic field to control said electronic stream, and a second source of variable electrical energy connected between two different points of said control electrode for producing an electromagnetic field to control said electronic stream.

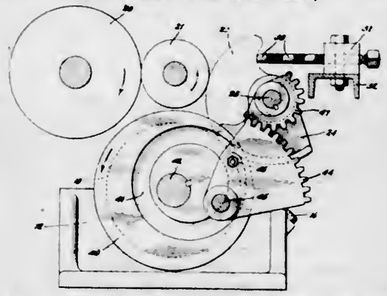
1,945,631

PRINTING PRESS

Harland Fankboner, Chicago, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application March 10, 1932. Serial No. 597,976

14 Claims. (Cl. 101—350)



1. An inking mechanism for printing presses including in combination an ink drum, a fountain roller, a transfer roller between the drum and roller, said transfer roller comprising a plurality of members having segmental ink receiving surfaces relatively movable to each other.

1,945,632

MACHINE TOOL AND HYDRAULIC FEED MECHANISM THEREFOR

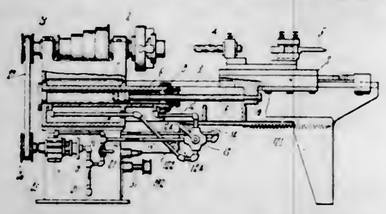
Ralph E. Flanders, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont

Application August 26, 1930. Serial No. 477,929

18 Claims. (Cl. 60—52)

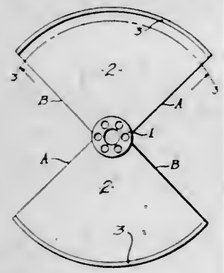
16. In combination, a fluid pressure operated mechanism, a pair of pumps for supplying fluid under pressure to said mechanism, an accumulator interposed between said pumps and mechanism, means for loading said accumulator for substantially uniform pressure throughout a cer-

tain volumetric range and for variable pressure throughout another volumetric range, and means controlled by said accumulator to cause both pumps to be operative during said variable pres-



sure volumetric range and one pump only or neither pump depending on the volume of fluid in said accumulator in said substantially constant pressure range.

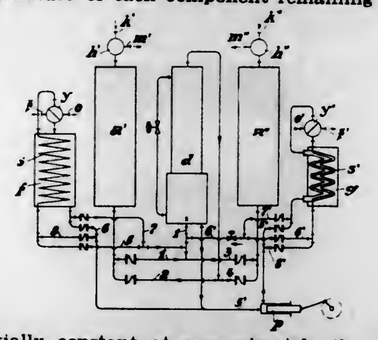
1,945,633
PROPELLER
Joseph M. Forshee, Granada, Colo.
Application December 26, 1931
Serial No. 583,198
1 Claim. (Cl. 170—176)



In a propeller, a hub, and a pair of blades having a flange on the outer peripheral ends thereof, each blade having a pitch curvature diminishing with respect to the radii of the curve as they approach the hub so that a portion on the convex side of each blade adjacent the cutting edge of the same for a short distance is void of pitch, then gradually increasing to the rear of the blades, the cutting edge being rounded on the concave side, and the other edge being rounded on the convex side, substantially as shown.

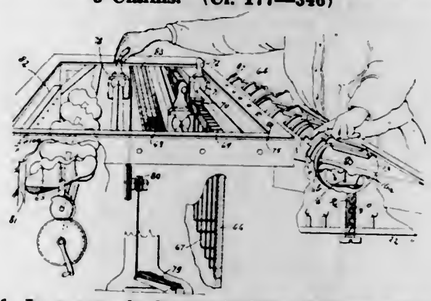
1,945,634
PROCESS OF SEPARATING GAS MIXTURES
Mathias Fränkl, Augsburg, Germany, assignor to American Oxythermic Corporation, New York, N. Y., a corporation of Delaware
Application April 11, 1930, Serial No. 443,480, and in Germany April 19, 1929
5 Claims. (Cl. 183—115)

1. A process of separating gas mixtures, which comprises transferring heat from a portion of a gas mixture solely to an accumulator, extracting heat from another portion of said gas mixture, separating such cooled portions into a plurality of components, transferring heat from a second accumulator solely to one of said separated components, transferring heat to another of said separated components wholly from said second portion of gas mixture by direct contact exchange with a passage conveying such portion, and rapidly alternating the periods of heat transfer for heat abstraction from said accumulators, the discharge temperature of each component remaining sub-



stantially constant at approximately the temperature of the entering gas mixture.

1,945,635
LIGHT COLOR INSTRUMENT
Mary Hallock Greenewalt, Philadelphia, Pa.
Application January 29, 1927. Serial No. 164,597
3 Claims. (Cl. 177—346)

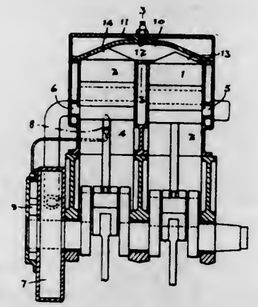


1. In a console for controlling lighting means to produce various color effects, a substantially rectangular frame, a plurality of light intensity varying rheostats each including an elongated resistant member, a contact, means for supporting the contact for sliding movement along the rheostat and a handle for the contact, means for supporting the rheostats in parallel relation crosswise of said frame with the handles extending above the frame, an extension on one of the sides of the frame, a plurality of current controlling members consisting of a disk-like operating portion having a substantially flat peripheral portion for finger engagement and a fluid conducting element means mounting said controlling members in groups of rows substantially extending parallel to said rheostats, certain of said elements including contacts and at least one other including a current modifying element and connecting means including the contacts of certain of said members in circuit with a rheostat.

1,945,636
INTERNAL COMBUSTION ENGINE
Herald B. Greening and James W. Galloway, Hamilton, Ontario, Canada, assignors to Galloway Engineering Company Limited, Hamilton, Ontario, Canada
Application March 31, 1932. Serial No. 602,188
3 Claims. (Cl. 123—53)

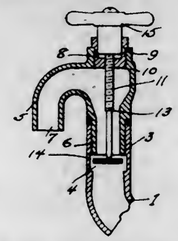
1. In an internal combustion engine, in combination, a crank shaft having a pair of cranks, a paired cylinder unit adjacent said crank shaft,

one cylinder having an intake and the other an exhaust port, a common combustion head connecting the outer ends of said cylinders, pistons operating in said cylinders, connecting rods connecting said pistons with said crank shaft, an air compressor having its discharge connected with the intake cylinder and constantly maintaining air under forced pressure at the intake port whereby on the opening thereof the forced air charge is admitted to the intake cylinder to flow upwardly therein through the common head and



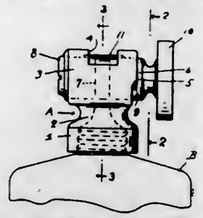
downwardly in the exhaust cylinder to sweep the products of combustion out, a fuel injector nozzle mounted to project a charge of fuel into the forced intake flow, and means for projecting a charge of fuel through said nozzle into the continuing forced air flow after the advanced scavenging portion thereof has been admitted and at a period predetermined in relation to the closing of the exhaust cylinder so that the projected atomized fuel will completely charge both cylinders but will not escape through the exhaust port.

1,945,637
FAUCET
José Andrés y Hernandez, Habana, Cuba
Application March 22, 1932. Serial No. 600,542
2 Claims. (Cl. 251—140)



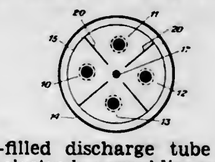
2. A faucet comprising a casing composed of a lower section threaded at one end and provided below the threaded portion with a valve chamber, and an upper section threaded into the threaded end of the lower section, the lower end of the upper section forming one wall of the valve chamber and also forming a valve seat, a floating flat disk valve in the valve chamber, a stem threaded in the upper section in alignment with the flat disk valve, the stem having a reduced lower end to form a valve operating point normally spaced from the flat valve when the latter is held in contact with the valve seat by the pressure of liquid flowing to the faucet, the valve being opened by operating the stem to engage the disk valve and remove same from its seat.

1,945,638
CAP FOR PASTE TUBES
William T. Herrick, Tulsa, Okla.
Application June 19, 1933. Serial No. 676,577
1 Claim. (Cl. 221—60)



A cap for a paste or other tube comprising a neck portion internally threaded to receive the threaded neck of a tube and a horizontally arranged cylindrical portion open at both ends and having an arcuate slot in its outer part, said slot being of considerable length and having its end walls substantially in the same horizontal plane, one end of said cylindrical portion being extended to provide a pair of shoulders, a plug passing through the cylindrical part, a pin carried by the plug for engaging the shoulders for limiting rotary movement of the plug, a handle on one end of the plug, a screw threaded in the other end and engaging a portion of the cylindrical part for holding the plug in place, said plug having a lateral bore of considerably less cross sectional area than the length and width of the slot, and a cutter wire having its ends secured in opposite side walls of the slot and extending in a direction substantially at right angles to the direction of rotation of the plug and contacting a part of the plug, said cutter wire being located to one side of the transverse center of the slot, said wire contacting the plug in advance of the bore therein when the plug is in a position with its bore in vertical and open position.

1,945,639
DISCHARGE TUBE
William Henry Towne Holden, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application November 8, 1932. Serial No. 641,796
3 Claims. (Cl. 250—27.5)

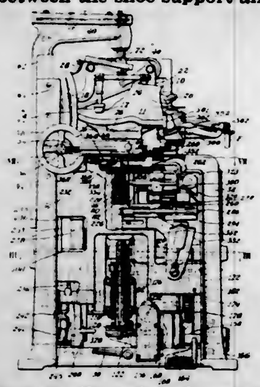


1. A gas-filled discharge tube comprising a plurality of electrode assemblies supported inside of said tube, each of said electrode assemblies comprising an anode and a grid completely enclosing said anode, and means for starting a glow discharge in said tube in which all of said electrode assemblies will be immersed.

1,945,640
FOXING TREATING MACHINE
Lester E. James, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application August 11, 1931. Serial No. 556,351
45 Claims. (Cl. 12—1)

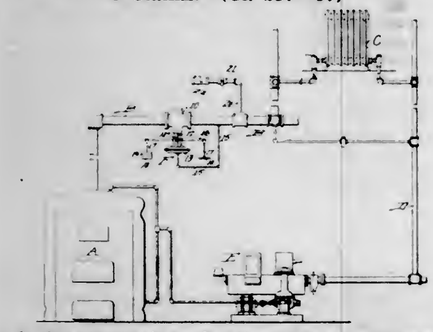
1. In a foxing laying machine, a shoe support, means for laying a strip of foxing on a shoe on said support, and machine-operated means for

automatically effecting a predetermined relative movement between the shoe support and the lay-



ing means to carry the point of operation of the laying means once around the shoe and then to overlap the foxing strip.

1,945,641
STEAM HEATING SYSTEM
Irving C. Jennings, South Norwalk, Conn.
Application July 18, 1930. Serial No. 468,799
4 Claims. (Cl. 237—67)



1. A vacuum steam heating system, comprising a source of steam supply, a supply line, radiators, a return line, a pumping apparatus for withdrawing and ejecting air and gas from the system, and means for admitting atmospheric air to the supply line in amounts directly proportional to the vacuum in the supply line at all times when the pressure in the supply line falls below atmospheric pressure.
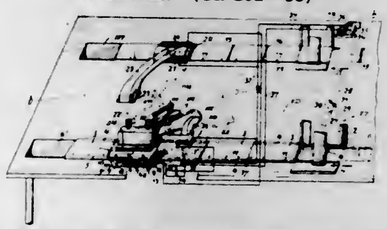
1,945,642
FRUIT JAR LIFTER
Frank Koch, Sr., Albion, Nebr.
Application February 21, 1933. Serial No. 657,867
2 Claims. (Cl. 294—115)

1. A device of the class described comprising a cross piece, a pair of jaw members having the upper ends of their stems pivotally connected to the cross piece, one adjacent each end thereof, jaws extending inwardly from the lower ends of the stems, a rod passing through the central part of the cross piece, a bolt connected with the lower end of the rod, substantially U-shaped members having their inner ends pivotally connected with the bolt, sleeves connected to the lower portions of the stems and through which the bight portions of the U-shaped members pass, a spring encircling the rod and having one end connected to the point of connection of the rod with the U-shaped members and its other end



connected with the cross piece, and a handle on the upper end of the rod.

1,945,643
ADDRESS PRINTING MACHINE
Joseph Krell, Berlin-Zehlendorf, Germany
Application December 21, 1929, Serial No. 415,704, and in Germany December 29, 1928
9 Claims. (Cl. 101—58)

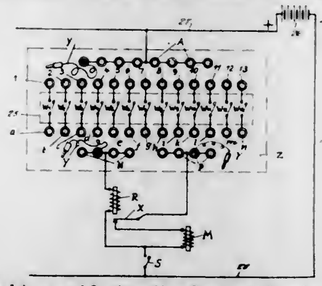


1. In an address-printing machine having mechanism for printing and a selector for skipping printing plates, means operatively connected with said mechanism for feeding plates and cards through said machine, a scanning device operatively connected with said printing mechanism and adapted to be controlled by said cards, and means controlled by said scanning device and said selector for operating said printing mechanism, and said card-feeding means.

1,945,644
ELECTRIC CONTROL FOR THE PRINTING MECHANISM OF ADDRESS-PRINTING MACHINES
Joseph Krell, Berlin-Zehlendorf, Germany
Application November 25, 1932, Serial No. 644,372, and in Germany December 1, 1931
1 Claim. (Cl. 101—58)

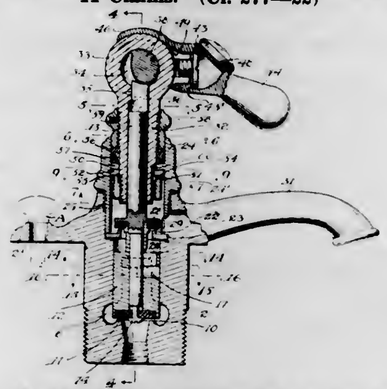
In an electric control for the printing mechanism of address-printing machines, a set of selective switches adapted to be operated by the printing members moving through the machine, two sets of switch contacts, with a contact per selective switch in each set, a source of electric energy, an actuating contact, a circuit connecting said actuating contact to one terminal of said source, means under the control of said circuit for operating the printing mechanism of the machine, means for connecting said actuating contact to any switch contact in one of said sets, a selector contact connected to the other terminal, means for connecting said selector

contact to any switch contact in the other set, a cutting-out contact connected to one of said terminals, a relay in its connection to said terminal, means under the control of said relay



for breaking said circuit when said relay is excited, and means for connecting said cutting-out contact to any switch contact in one of said sets.

1,945,645
HOT AND COLD WATER MIXING VALVE
Daniel F. Kumpman and John E. Kumpman, Dover, N. J.
Application March 3, 1930. Serial No. 432,835
11 Claims. (Cl. 277—22)

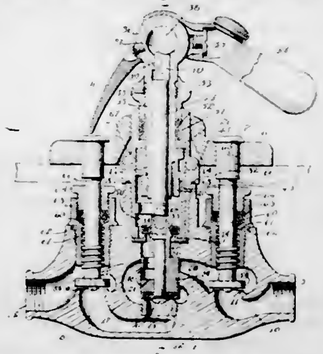


1. A mixing valve, including hot and cold water passages, a valve stem, two valve heads on said stem, a valve seat with which one of said valve heads cooperates to shut off the hot water, and a second valve seat with which the other of said valve heads cooperates to shut off both hot and cold water, and means for controlling the mixture of hot and cold water independently of the volume.

9. A mixing valve, a cam for operating the mixing valve, a member in which the cam is mounted, a handle for operating the cam, clamping fingers provided on said handle and clamping together the member and the cam.

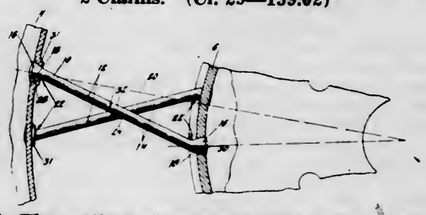
1,945,646
HOT AND COLD WATER MIXING VALVE
Daniel F. Kumpman and John E. Kumpman, Dover, N. J.
Application March 26, 1930. Serial No. 439,178
3 Claims. (Cl. 277—1)

1. A mixing valve including a casing having hot and cold water inlet passages and discharge passages leading to a shower and to a tub, a transfer sleeve in the casing for controlling the passages to the shower and tub, a valve head in the casing for controlling the mixture of hot and cold water, valves in the casing adapted to shut off the hot and cold water inlet passages to permit



repairs, valve spindles for operating said valves, an indicator panel, and caps passing through the indicator panel and secured to said spindles.

1,945,647
METHOD OF MAKING WIRE WHEELS
Frank H. Le Jeune, Jackson, Mich., assignor, by mesne assignments, to Kelsey-Hayes Wheel Corporation, a corporation of New York
Application June 10, 1929. Serial No. 369,605
2 Claims. (Cl. 29—159.02)

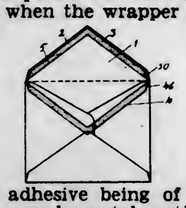


1. The method of making a wire wheel having inner and outer rows of spokes, which comprises providing hub and rim members with spoke receiving openings, providing complemental spoke sections, each having a head at one end thereof, placing the hub member within the rim member, inserting the complemental spoke sections with their heads rearmost through the openings in the hub and rim members and toward each other, welding the adjacent ends of the complemental spoke sections forming the spokes of one row, relatively moving the hub and rim members to effect tensioning of the welded spokes, then welding the adjacent ends of the complemental spoke sections forming the other row of spokes, and then releasing the wheel to allow tensioning of both rows of spokes.

1,945,648
WRAPPER
Anders Gustav Sebastian Lindgren, Gottenborg, Sweden, assignor to Aktiebolaget Alos, Gottenborg, Sweden
Application March 17, 1933, Serial No. 661,383, and in Sweden November 17, 1931
6 Claims. (Cl. 229—80)

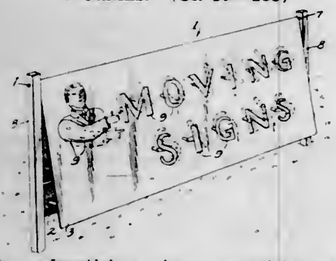
1. A wrapper, comprising complemental portions to be adhered together, and an adhesive coated on said complemental portions and terminating just short of at least the longitudinal edge of that portion which is outermost on the

wrapper, the adhesive being so disposed that the coating on one portion will overlie that on the other portion when the wrapper is in its sealed



position, said adhesive being of such material that when the complemental portions are folded, the coatings will adhere together firmly, without moistening.

1,945,649
WIND OPERATED SIGN
Lawrence Loewenstein, Columbus, Ohio
Application April 4, 1933. Serial No. 664,376
7 Claims. (Cl. 40—138)



1. An advertising sign comprising a panel member pivoted at its upper end to spaced supports for free swinging movement due to wind pressure, sign characters mounted on a face of said panel, and means connecting said characters and at least one of said supports and functioning to move said characters when said panel is swung by the wind.

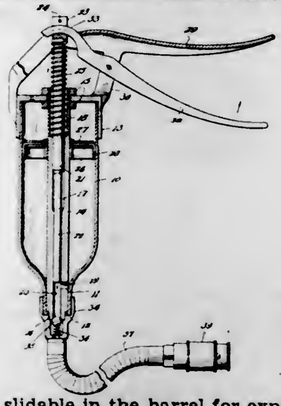
1,945,650
STIFFENER FOR FOOTWEAR AND METHOD OF PREPARING THE SAME
David Baird Macdonald, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 6, 1930, Serial No. 500,573, and in Great Britain December 18, 1929
15 Claims. (Cl. 12—146)



1. The method of preparing a shoe stiffener which comprises providing a blank of porous, absorbent material and charging the marginal portion only of the blank with a non-stiffening substance to reduce the absorptivity of that portion preparatory to treating the blank with a solution of a stiffening substance.

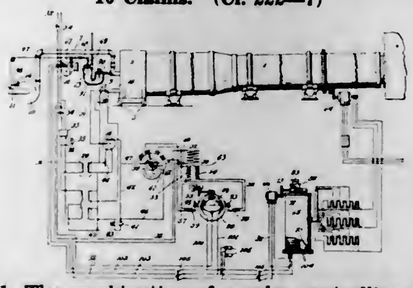
1,945,651
GREASE GUN
Eugene J. Macey, Rosholt, S. Dak.
Application January 30, 1933. Serial No. 654,345
6 Claims. (Cl. 221—47.3)

1. A grease gun including a grease receptacle, a cap closing the receptacle, a barrel carried by the cap and provided at one end with a grease chamber and with an inlet passage connecting said chamber with the grease receptacle, a check valve coacting with the mouth of said chamber,



a plunger slidable in the barrel for expelling the contents of said chamber, and a lever carried by the cap and pivoted at a point between its ends to coact at one end with the plunger whereby the lever may be rocked for actuating the plunger.

1,945,652
MEANS FOR CONTROLLING OPERATION OF CEMENT KILNS
Claude Worth Martin, Gold Hill, Oreg.
Application March 19, 1931. Serial No. 523,881
10 Claims. (Cl. 222—7)

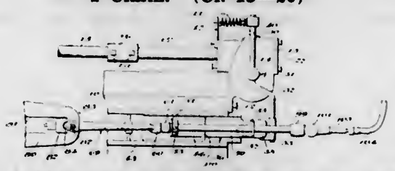


1. The combination of a valve controlling the flow of fuel to a cement kiln, a light-sensitive element focused upon the material burning within the kiln, means for excluding lateral light from said element, a motor for setting said valve, means controlled by said element for rotating the kiln, and means controlled by the light-sensitive element for driving said motor.

1,945,653
ALLOY
Georg Masing, Berlin, Germany, and Wilhelm Kroll, Luxemburg, Luxemburg, assignors, by mesne assignments, to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 31, 1929, Serial No. 336,634, and in Germany February 14, 1928
11 Claims. (Cl. 75—1)

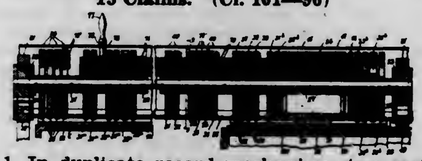
3. An alloy comprising from 5–10 per cent of nickel, .5 to 1.5 per cent of beryllium and chromium in substantial amounts up to a total of 25 per cent with a balance substantially iron; the said alloy being easily rolled and very heat resistant.

1,945,654
DEVICE FOR CLEANING BOBBINS
Edgar Alexander McKillop, Hendersonville, N. C.
Application November 5, 1931, Serial No. 573,273
Renewed October 27, 1933
1 Claim. (Cl. 15—20)



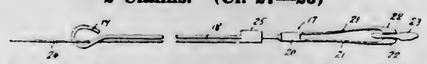
A bobbin cleaner comprising an air nozzle, means for supporting a bobbin with the hollow interior of the bobbin aligned with the discharge opening of said nozzle, means for reciprocating the nozzle and for moving said nozzle temporarily into snug engagement with one end of the bobbin, a pipe connecting the nozzle with a source of air and reciprocated with the nozzle, a valve incorporated in the pipe for controlling the flow of air to the nozzle, said valve having a stem, a rod having one end secured to a fixed support, a lever having one end pivoted to the free end of the rod so that the lever may be oscillated from the free end of the rod, the other end of the lever being pivotally connected to the pipe, the lever having a projection engageable with the stem, so that when the lever is oscillated in one direction by the reciprocation of the nozzle, the projection will move the valve to open position.

1,945,655
SALES AND BILLING MACHINE
William I. Nicholson, Jr., Tulsa, Okla.
Application March 27, 1931, Serial No. 525,768
Renewed April 25, 1933
15 Claims. (Cl. 101—96)



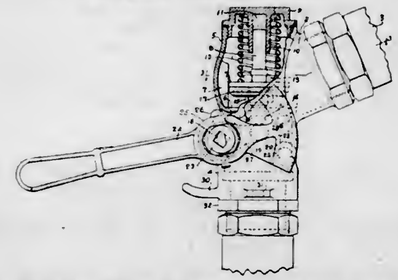
1. In duplicate record mechanism, two series of corresponding printing discs, a series of operating discs disposed between the same and corresponding with each series, and means connecting corresponding discs of the three series and arranged concentrically thereof.

1,945,656
EMBALMER'S INSTRUMENT
Walter E. Richards, Richmond, Ky., assignor of fifty percent to Kelly Richards, Edward H. Richards, and John A. Richards, all of Owingsville, Ky.
Application June 17, 1933. Serial No. 676,388
2 Claims. (Cl. 27—23)



1. An enbalmer's instrument of the class described comprising a tool embodying an operating rod formed at one end with a loop and at its opposite end with a head, said head having diametrically opposite spring fingers terminating in clot engaging jaws, a sleeve with which said head and fingers co-operate, and a holding wire for the sleeve, said wire extending through and beyond said loop.

1,945,657
VALVE
Frederick F. Rike, Dayton, Ohio, assignor to Buckeye Iron and Brass Works, Dayton, Ohio, a corporation of Ohio
Application September 8, 1931. Serial No. 561,638
6 Claims. (Cl. 251—165)

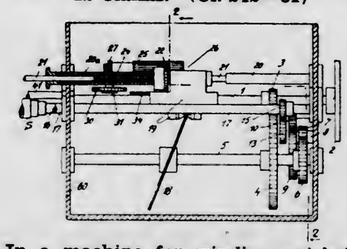


1. In a truck tank faucet, a casing having a passageway therein, a valve adapted to close said passageway, means to open said valve including a shaft, a socket member adapted to removably engage the shaft, a handle pivoted to said socket member, and cooperating means on the casing and the handle to lock the handle in a plurality of positions whereby the valve may be held in different positions, said cooperating means including a lug on the casing and a plurality of lug seats on the handle.

1,945,658
PRODUCTION OF COLORED PHOTOGRAPHIC PICTURES
Georg Roessler, Ludwigshafen - on - the - Rhine, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of New York
No Drawing. Application April 6, 1931, Serial No. 528,237, and in Germany April 19, 1930
8 Claims. (Cl. 95—88)

1. The process for the production of colored photographic pictures which comprises acting on a photographic silver picture with an aqueous bleacher solution comprising a water-soluble per-compound, selected from the group consisting of salts of per-acids and hydrogen peroxide, and a water-soluble salt of a hydrohalic acid of the group consisting of hydrogen chloride, bromide and iodide, in the presence of a water-soluble leuco-compound of a vat dyestuff.

1,945,659
MACHINE FOR WINDING QUICK - TRAVERSE BOBBINS, ESPECIALLY FOR ARTIFICIAL SILK
Ernst Schweizer, Zurich, Switzerland
Application February 17, 1931, Serial No. 516,427, and in Switzerland December 19, 1929
12 Claims. (Cl. 242—31)

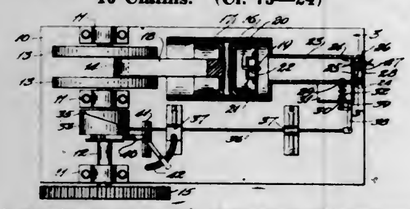


1. In a machine for winding quick-traverse, conically wound bobbins, the combination of a thread-guide rod, an operating shaft, means for

driving the operating shaft, oblique plate means on the operating shaft and yoke means co-operating therewith for reciprocating the thread-guide rod with constant amplitude, adjustable ratchet-actuated, screw-and-nut means associated with said co-operating means for feeding the thread-guide rod forward without changing the amplitude of its reciprocations and in accordance with the count of the thread being wound, at least one bobbin shaft, and eccentric gear means positively gearing the bobbin shaft to the operating shaft for imparting to the bobbin shaft a variable rotational velocity during each stroke of the thread-guide rod.

1,945,660
INSTRUMENT FOR DETERMINING ATMOSPHERIC CONDITIONS

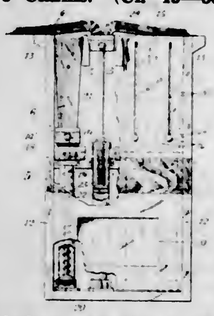
Merit Scott, Ithaca, N. Y.
Application June 15, 1931. Serial No. 544,567
10 Claims. (Cl. 73—24)



1. An instrument for indicating the proximity of dewpoints in gases and including an expansion chamber, means to admit successive measured charges of a gas into said chamber, means to produce a sudden rarification of each charge admitted, means to exhaust each charge from the chamber after rarification, and a sight window in a wall of said chamber wherethrough the contents of the chamber may be observed.

1,945,661
BOOKHOLDER

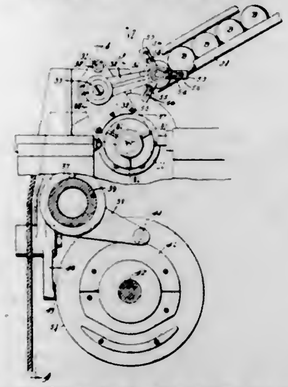
Edward Jones Sithens, Cynwyd, Pa.
Application March 10, 1933. Serial No. 660,309
3 Claims. (Cl. 45—85)



1. A book-holder including a casing for housing a series of books or the like, said books being adapted to move between a normally housed position in the casing and a consulting position on the top of the casing, handles slidably mounted in said casing, each of said handles being connected with each of said books for raising it to its consulting position, a cylindrical jacket in the casing individual to each book, a piston directly connected with each book and being reciprocally mounted in each of the jackets, a reactive tension spring encircling each of said pistons, and compression means for retarding the return of said books and handles to their normal positions upon the closure of said books.

1,945,662
LOADING AND UNLOADING MECHANISM FOR MACHINE TOOLS

Edwin R. Smith, Seneca Falls, N. Y., assignor to Seneca Falls Machine Company, Seneca Falls, N. Y., a corporation of Massachusetts
Application August 3, 1931. Serial No. 554,718
9 Claims. (Cl. 82—2)



1. In a machine tool, a storage for blanks, a work holder, and a loading device effective to seize and transfer blanks from storage to said work holder, said loading device comprising supporting means, a plurality of work-engaging members mounted in fixed spaced relation in said supporting means and closely engaging the sides of a blank at a plurality of separated points, and a latch mounted on one of said members and engaging an edge of the blank to prevent displacement thereof.

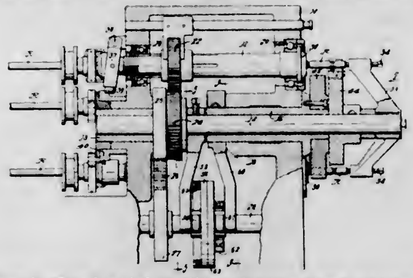
7. In a machine tool, a storage for blanks, a work holder, and a loading device effective to seize and transfer blanks from storage to said work holder, said loading device comprising supporting means, a plurality of work-engaging members mounted in fixed spaced relation in said supporting means and closely engaging the sides of the blank at a plurality of separated points, a latch pivotally mounted on one of said work-engaging members and having a hook-engagement with an edge of the blank to prevent displacement thereof, and yielding means to move said latch to operative position, said latter means yielding to release the blank as said supporting means is withdrawn after the blank is grasped by said work holder.

1,945,663
MULTIPLE SPINDLE LATHE

Edwin R. Smith and Juel L. Peterson, Seneca Falls, N. Y., assignors to Seneca Falls Machine Company, Seneca Falls, N. Y., a corporation of Massachusetts
Application August 6, 1931. Serial No. 555,540
1 Claim. (Cl. 82—3)

In a multiple spindle lathe, a plurality of work spindles disposed in a concentric series, a tool support angularly movable about the axis of said concentric series, a plurality of tools mounted on said support and each engageable with a piece of work in one of said work spindles, means to give said tool support a rocking movement to move all of said tools simultaneously toward and away from their respective work spindles and work pieces, a plurality of stops for the work associated with and movable by said tool support, and cam means to move said tool support and work stops as a unit axially of the work alternately with said

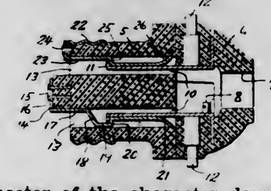
rocking movements and to hold said support and



stops in fixed axial position during the axial feeding of the work.

1,945,664
SELF-LOCKING ELECTRICAL CONNECTER

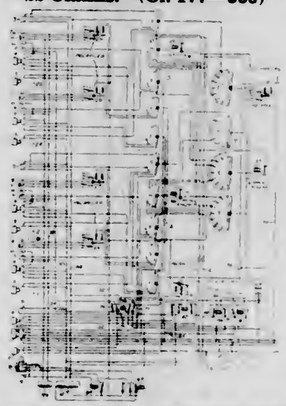
Silas Bud Smith, Mound, Minn.
Application January 5, 1933. Serial No. 650,319
1 Claim. (Cl. 173—343)



A connecter of the character described comprising a socket member, a plug member, said plug member being provided with a pair of prongs each having a laterally disposed flange thereon, said socket section being provided with contact members therein, each of said contact members being provided with a shoulder, said flanges of the prongs being adapted to engage behind the shoulders of the said contacts, each of the said contacts being provided with a curved extension against which the said flanges can ride to tension the said prongs preparatory to engage behind the shoulders of said contacts.

1,945,665
SUPERVISORY CONTROL SYSTEM

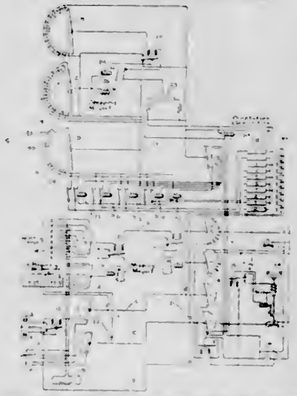
Clyde E. Stewart, Philadelphia, Pa., assignor to General Electric Company, a corporation of New York
Application March 8, 1928. Serial No. 260,168
22 Claims. (Cl. 177—353)



22. In combination, two selector switches, and means for operating said switches in synchronism including a motor magnet for each switch, means responsive to the operation of each switch by its motor magnet for reversing the potential applied to one terminal of its motor magnet and means for simultaneously reversing the potentials applied to other terminals of said motor magnets.

1,945,666
INDICATING SYSTEM

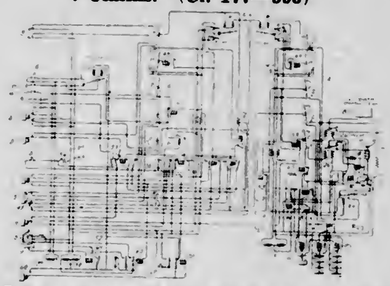
Clyde E. Stewart, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application November 22, 1928
Serial No. 321,182
9 Claims. (Cl. 177—353)



1. In combination, a movable element, means for operating said element to a plurality of positions, a plurality of oscillation generators, said generators being arranged to produce oscillations of different frequencies, frequency responsive indicating means, a rotary switch having a wiper and a plurality of stationary contacts, means for rotating said wiper over said contacts, and means responsive to the position of said element for selectively establishing connections to said generators through said wiper and certain of said contacts so that the rotation of said wiper causes said generators to supply to said indicating means oscillations of different frequencies in a predetermined sequence determined in accordance with the positions of said element.

1,945,667
SUPERVISORY SYSTEM

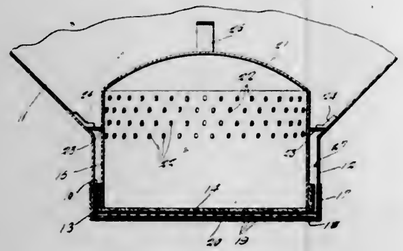
Clyde E. Stewart, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application December 11, 1929
Serial No. 413,354
7 Claims. (Cl. 177—353)



2. In a remote control system, a dispatcher's station, a remote station, a selector in each

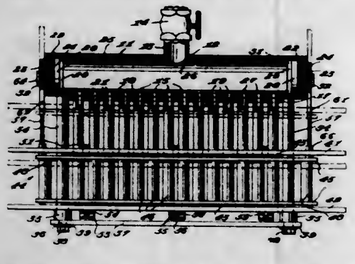
station, means including a circuit extending between the stations for operating said selectors in synchronism, said circuit being insufficiently energized in the normal condition to operate said selectors, a control circuit extending between the stations, a relay normally connected in said synchronizing circuit at the remote station and arranged upon interruption thereof to interrupt said control circuit, alarm means in the dispatcher's station responsive to the condition of the control circuit, and means for shunting said relay thereby sufficiently to increase the energization of said circuit to cause operation of the selectors.

1,945,668
MILK STRAINER
Charles L. Turner, Berlin, Wis.
Application May 13, 1933. Serial No. 670,979
4 Claims. (Cl. 210—159)



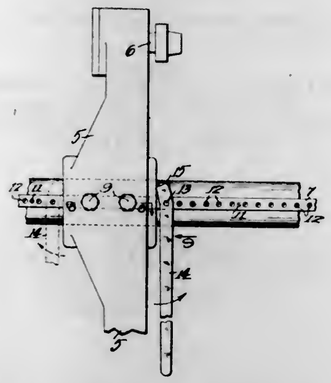
1. A milk strainer comprising a funnel provided with an internal ledge, a strainer having a cylindrical body provided with an imperforate dome shaped top and a perforated zone below said top, a filtering pad extending across the lower end of the body of the strainer and having its edges extending upwardly into contact with the outer surfaces of said strainer body, and a retaining band clamping the said upturned edges of the pad against the strainer body for securing the pad in position.

1,945,669
SKINLESS AND CASINGLESS SAUSAGE AND METHOD OF PACKAGING SAME
Charles H. Vogt, Philadelphia, Pa.
Application January 15, 1930. Serial No. 421,014
2 Claims. (Cl. 99—11)



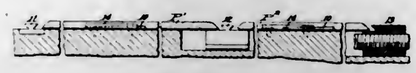
1. The process of forming a food product from comminuted meat without a skin or casing; consisting in progressively filling molds with the meat under pressure effective in the molds throughout the filling and sufficient in degree to cause the juices to exude from the meat particles, subjecting the molded product while in the molds to a chilling action to set a portion of said juices to cause the comminuted particles of meat to adhere to each other, and ejecting the chilled molded meat from the molds.

1,945,670
ROLL SUPPORT SHIFTING DEVICE
Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia
Application December 1, 1931, Serial No. 578,229
Renewed April 8, 1933
5 Claims. (Cl. 242—64)



1. In a paper roll support, the combination of a supporting shaft having a series of spaced fulcrum elements therealong, a spider located on the shaft and capable of being moved along the shaft, and a lever having a complementary fulcrum element adapted to cooperate with any one of said fulcrum provisions to pivot the lever and adapted to bear against the spider to move it along the shaft.

1,945,671
PLATE-LOCKING MECHANISM
Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia
Application March 22, 1932. Serial No. 600,444
7 Claims. (Cl. 101—378)

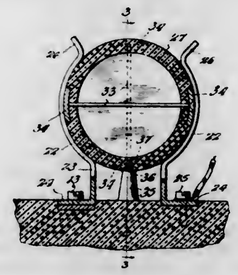


1. In a plate clamping device, the combination with means for moving a plate longitudinally on a plate cylinder up to clamping position at its circular ends, of means whereby the motion of the plate into clamping position will clamp down its straight edge against the cylinder.

1,945,672
FUSE
Ervin Adams, Everett, and Samuel W. Blakslee, Pottsville, Pa.
Application March 18, 1932. Serial No. 599,796
9 Claims. (Cl. 200—125)

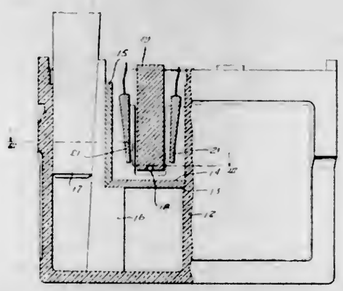
1. In combination, spring clips, a fuse casing embraced and frictionally seated by the clips and

adapted to be raised and rotated on its axis between the clips, a plurality of fuses carried by the casing insulated from each other, the ends of the fuses being exposed on the peripheral face



of the casing, the ends of one fuse being located between the ends of the other fuse, and means for limiting rotation of the casing to dispose the ends of each fuse selectively in contact with the clips.

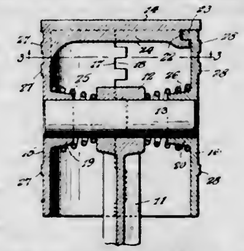
1,945,673
APPARATUS FOR ASSEMBLING ELECTRIC CELLS
Peter R. Aronson, Lakewood, Ohio, assignor to National Carbon Company, Inc., a corporation of New York
Application November 14, 1930
Serial No. 495,744
4 Claims. (Cl. 136—1)



1. A mould device for casting electrolyte-forming material in a galvanic cell having a shoulder on one wall of the cell, comprising a bottom member adapted to rest on said shoulder and to engage the two sides of the container adjacent the wall having the shoulder, a side member engaging said bottom member and two walls of the cell container and locking means engaging at least one of said mould forming members and a wall of said container.

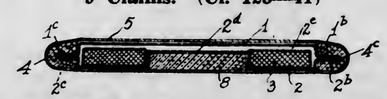
1,945,674
RINGLESS PISTON
Willard E. Bassett and Bert L. Bassett, Detroit, Mich.
Application May 19, 1932. Serial No. 612,345
4 Claims. (Cl. 309—11)

1. A piston comprising a head having a substantially cruciform reinforcement on the inner face, said reinforcement having pairs of legs, a skirt comprising sections separated along a plane passing through the longitudinal axis of the piston and through a pair of the legs of said reinforcement, one of said sections being integral with said head, a sliding connection be-



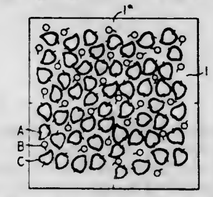
tween the other of said sections and said head disposed in the plane of another pair of the legs of the cruciform reinforcement, wrist pin bosses on the sections of the skirt, and expansion springs seated on said bosses and normally urging said sections laterally apart.

1,945,675
VIBRATORY PAD
Eric A. Binney, San Diego, Calif.
Application July 11, 1931. Serial No. 550,173
9 Claims. (Cl. 128—41)



5. In a flexible vibratory pad, an armature member comprising a thin, transversely furcated, inherently resilient sheet of steel, a pole member comprising a thin transversely furcated sheet of steel having a longitudinally extending central offset portion forming a transversely slotted pole portion, a flat solenoid positioned around said pole portion, longitudinal angular marginal portions on said pole member and means for securing said armature member along its longitudinal marginal portions to said angular marginal portions and in slight spaced relation to said pole portion.

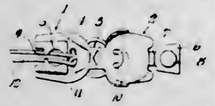
1,945,676
PROCESS OF PRODUCING PRINTING SURFACES
Herman C. Boedicker, New York, N. Y., assignor to Photo-Cylinder Corporation, a corporation of New York
Application May 5, 1932. Serial No. 609,354
9 Claims. (Cl. 95—5.7)



7. In the process of producing printing surfaces, making a photographic negative of the design to be printed, making a silver print from such negative, outlining the design on the print in water-proof ink, bleaching-out the silver print to produce a key drawing in ink of the design in outline, making a photographic negative of the key drawing, making a contact photographic

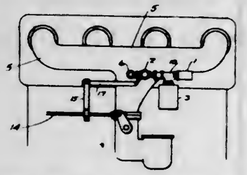
positive from the last named negative, blocking-out certain portions of said positive, subjecting a photographic sensitive plate to an exposure of the photographic negative of the key drawing, subjecting the said sensitized plate to a second exposure of said blocked-out positive held in registered relation to the exposed plate, while interposing a screen between the sensitized exposed plate and the blocked-out positive, whereby an image of the screen will be imposed on those portions of the sensitized plate corresponding to the unblocked portions of the positive, producing from said developed double-exposed plate a negative printing plate with the design repeated thereon to form a composite negative printing plate, reproducing said composite design on a metal printing roller in negative, and etching said roller to form a negative intaglio printing surface of the composite design.

1,945,677
SEAL
Winfred M. Brooks, West Orange, N. J.
Application September 14, 1932
Serial No. 633,068
2 Claims. (Cl. 292—325)



1. A seal comprising: a body of sheet material composed of two connected members to be folded together in spaced relation; one of said members having, in that surface which is exposed when the members are folded together, a recess extending to the free end of the member, and having further an opening in said recess; and the other of said members having, at its free end, a tongue to be bent over the free end of the first member to thereby lie within the recess aforesaid, said tongue having a soft-metal rivet to enter, when said tongue is folded as aforesaid, the opening in the first member and to be expanded in the space between the members.

1,945,678
LUBRICATED OIL INJECTOR
Charles C. Christ, Lyndhurst, N. J.
Application September 21, 1932
Serial No. 634,207
5 Claims. (Cl. 123—196)

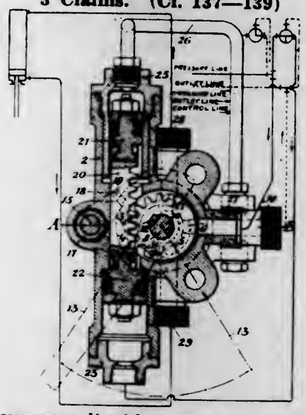


1. A lubricated air injector comprising a tubular member adapted to be installed on the intake manifold of an internal combustion engine, a valve in said member said tubular member directly connected to said intake manifold and providing free air passage from the atmosphere thereto when the valve is in the open position, means controlling said valve by the accelerator connecting rod, a lubricator storage chamber in connection with said tubular member, and a wick extending from said storage chamber into said tubular member.

1,945,679
CORROSION RESISTANT ALLOY
Michael George Corson, Jackson Heights, N. Y., assignor to Metal & Thermit Corporation, a corporation of New Jersey
No Drawing. Application April 9, 1929
Serial No. 353,899
4 Claims. (Cl. 148—11.5)

4. A corrosion resistant metal article comprising an alloy containing the following constituents in about the proportions by weight of from 1 to 20 per cent iron, 10 to 20 per cent of at least one metal of the chromium group, from 5 to 12 per cent of copper and from 0.5 to 1.5 per cent of beryllium with a balance substantially nickel, said alloy having the hardness and elasticity produced by bringing the alloy into a state of solid solution by heating from about ½ to 1 hour at temperatures above 900° C. but below the melting point of the alloy, followed by quenching and by age-hardening at temperatures ranging from about 250° to 600° C.

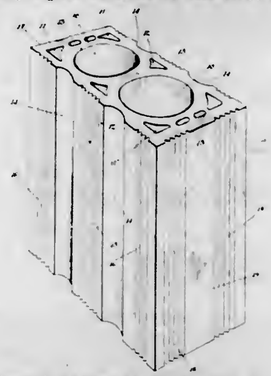
1,945,680
HYDRAULIC FOUR-WAY VALVE
Paul Fahrenkamp, Bremen, Germany, assignor to Atlas-Werke Aktiengesellschaft, Bremen, Germany, a corporation of Germany
Application July 8, 1929, Serial No. 376,579, and in Germany July 14, 1928
3 Claims. (Cl. 137—139)



1. A four-way, liquid pressure controlled valve particularly adapted to cooperate with bulkhead doors, comprising a shaft, means to rotate said shaft manually, a valve secured to said shaft to rotate therewith, and provided with gear teeth on a portion of its periphery, a rack meshing with said teeth, a piston at each end of said rack, said two pistons being of different sizes, and a cylinder for each said piston, one cylinder being connected to control pipe and the other cylinder to a waste water pipe and means for locking the shaft against rotation when desired, to temporarily prevent actuation of the valve.

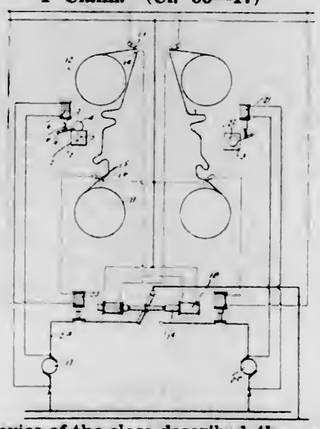
1,945,681
TRUSS TILE
Albert H. Farrens, Lincoln, Nebr.
Application July 9, 1931. Serial No. 549,715
1 Claim. (Cl. 72—41)

A building block comprising a body portion having a pair of spaced apart cells and an intermediate web having a height substantially equal to half the thickness of the block, each end of said web terminating in a T-head, each T-head having a relatively small air opening thereby providing a pair of short, thick arcuate bracing arms, the outer ends of which merge into the respective ends of the T-head and the outer surface of the block and the inner ends of which merge into the web, said body portion also having at each outer portion a web having a height substantially equal to that of the first mentioned



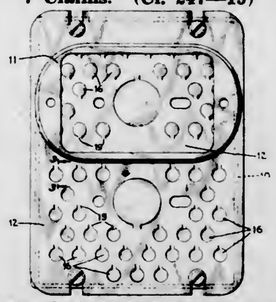
web and terminating at each end in an angle head which extends inwardly toward the T-head, each angle head having a relatively small air opening to provide a short, thick arcuate bracing arm, the outer end of which merges into the angle head and outer surface of the block and the inner end of which merges into the second mentioned web.

1,945,682
AUTOMATIC STOP AND CHANGE OVER FOR MOVING PICTURE PROJECTORS
Howard H. Fenner and Robert E. Silvis, Mill City, Oreg.
Application February 25, 1929. Serial No. 342,352
1 Claim. (Cl. 88—17)



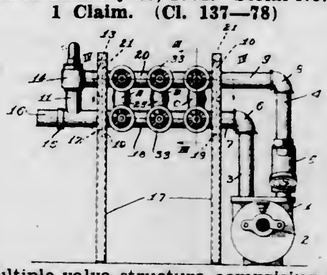
In a device of the class described, the combination of a pair of motion picture film projecting machines, each of said machines being provided with a driving motor, of an electric circuit embracing said motors and a switch adapted to be actuated by a pair of solenoids for alternately directing electrical energy to either of said motors, said solenoids being embraced within an electric circuit held open by the picture films passing between and insulating a pair of rollers disposed within the same circuit so that breakage of the film in one machine will cause a closing of the switch actuating solenoid circuit with a resultant throw of the switch to open the motor circuit in that machine and to close the motor circuit in the other machine, an additional circuit in each machine embracing a solenoid actuator circuit breaker in each motor circuit and also another pair of film insulated rollers adapted to actuate the circuit breaker upon breakage of the film and another circuit forming a part of the motor circuit and controlled by the above-mentioned circuit breaker embracing a solenoid and a dowser actuated thereby, said solenoid adapted to hold the dowser away from the lens when the motor circuit is closed and to drop the dowser in front of the lens upon opening of that motor circuit.

1,945,683
PLASTER LOCK
James M. G. Fullman, Sewickley, Pa., assignor to National Electric Products Corporation, New York, N. Y., a corporation of Delaware
Application September 27, 1929
Serial No. 395,500
7 Claims. (Cl. 247—15)



1. A plaster lock including a plate-like member having a multiplicity of distinctively separated localized individual plaster locking cavities therein provided by plug portions integral with the plate and disposed out of the plane of the plate, the material of said plate having bounding portions of less diameter which overlie a cavity of greater diameter relatively near the plug portion whereby each individual locking cavity is undercut at points remote from the surface of the plate which receives the plaster to lock the the plaster in position.

1,945,684
CONCENTRATED VALVE CONTROL
William N. Glab, Dubuque, Iowa, assignor to Morrison Bros., Dubuque, Iowa, a corporation of Iowa
Application January 26, 1931. Serial No. 511,150
1 Claim. (Cl. 137—78)



A multiple valve structure comprising a housing defining a pair of parallel passageways and

a lateral valve chamber interconnecting said parallel passageways, valve seats at the junction of said chamber with said passageways, said chamber having a lateral opening on the side towards said passageways and disposed therebetween, said opening being adapted for connection to a pipe, valve members in said chamber operatively associated with said seats for selectively controlling flow between said chamber and passageways, means for actuating said valve members, said means being so disposed as to afford uninterrupted flow through the passageways in either open or closed positions of said valves, and recessed portions in said chamber for receiving said valve members when in fully open position, to enable uninterrupted flow between the chamber and passageways.

1,945,685
UMBRELLA
William Donald Hall, Corstorphine, Edinburgh, Scotland
Application June 18, 1932, Serial No. 618,056, and in Great Britain June 23, 1931
3 Claims. (Cl. 135—20)

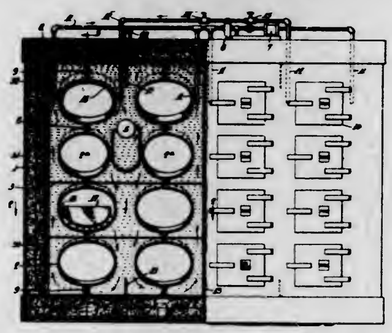


1. An umbrella comprising a rib carrier, a spreader wire carrier detachably receiving said rib carrier when the umbrella is opened, levers connected at one end to said rib carrier and spreader wire carrier respectively, the outer ends of said levers pivotally connected together and means for pivotally connecting a main stick and runner thereon to said levers in an off set position in relation to the wire carrier.

1,945,686
PROCESS FOR PRODUCING WALL PAPERS FROM PEELED WOOD VENEERS
Heinrich Albert Hellmers, Kiel, Germany
No Drawing. Application January 31, 1933, Serial No. 654,547, and in Germany May 11, 1931
3 Claims. (Cl. 154—2)

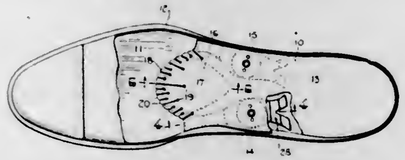
1. A process for producing wall papers from peeled wood veneers in combination with a backing of fibrous substances, paper cellulose fabrics, cotton materials and fabrics of all kinds stuck on to the rear side of the veneers, consisting in cutting the peeled wood veneers into strips of a certain width, in subjecting the veneer strips to a drying process by storage, in steeping the stored veneer strips in an aqueous solution of cellulose acetate and chrome alum, in again drying the steeped veneers, in steeping the dried veneers in an aqueous solution of glycerine and gelatine, in again subjecting the veneers to a drying process by storage, and finally in sticking the backing on the dried veneers.

1,945,687
REFRIGERATOR FOR FROZEN FOODS
Charles H. Herter, New York, N. Y.
Application March 10, 1931. Serial No. 521,455
18 Claims. (Cl. 62—101)



3. A refrigerator comprising a number of storage compartments arranged one above another, and vertical webs extending longitudinally between said compartments.

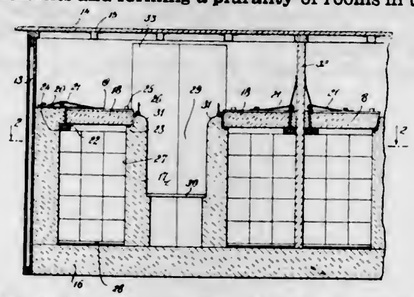
1,945,688
ARCH SUPPORT
Joseph C. Howell, Fort Lee, N. J.
Application May 8, 1933. Serial No. 669,833
10 Claims. (Cl. 36—71)



1. The combination with a shoe, of a longitudinally arched plate, a spring leaf assemblage arranged upon a side edge portion of the insole of the shoe with its rear portion flared laterally and bifurcated to provide a pair of rearwardly divergent flexible end furcations, means connected to the arched plate and to the said assemblage supporting the arch of the plate in spaced relation upon the assemblage, said assemblage receiving the weight of the wearer thrust upon a side portion of the said plate in the region of the instep and distributing the same over a substantial area of the instep of the shoe and said flexible end furcations providing means by virtue of which the rear end portion of the assemblage will flex or bend with the movement of the sole of the shoe.

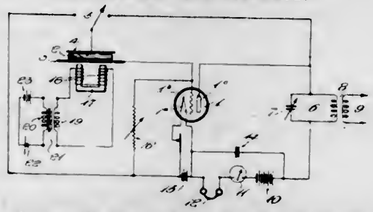
1,945,689
CHEMICAL CONTAINER
Eugene A. Hults, Saltville, Va., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
Application January 5, 1932. Serial No. 584,884
15 Claims. (Cl. 62—91.5)

1. In a vehicle, the combination of a body having a top, a plurality of long, narrow compartments within the body and extending transversely thereof, said compartments terminating below the top of said body and having walls of insulating material and partitions extending transversely of the car between successive groups of compartments and forming a plurality of rooms in the



body, each containing a plurality of compartments.

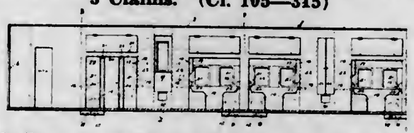
1,945,690
FREQUENCY CONTROL AND MODULATION SYSTEM
August Hund, West Orange, N. J., assignor, by mesne assignments, to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application April 10, 1926, Serial No. 101,202
Renewed September 3, 1931
14 Claims. (Cl. 179—171)



13. An oscillator having a piezo-electric crystal freely supported by one of its electrodes and means for electromechanically vibrating said electrode in response to low frequency signals for bouncing the crystal in respect to said electrode so as to vary the characteristics of the oscillations produced.

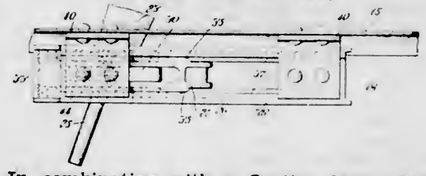
14. A piezo-electric crystal oscillator having a crystal freely supported by one of its electrodes and means for electromechanically vibrating the crystal in response to signals and in relation to its electrodes whereby the frequency of said oscillator is modulated.

1,945,691
COMBINATION DAY AND SLEEPING RAILROAD COACH
Albert E. Hutt, Pelham, N. Y.
Application October 14, 1932. Serial No. 637,705
3 Claims. (Cl. 105—315)



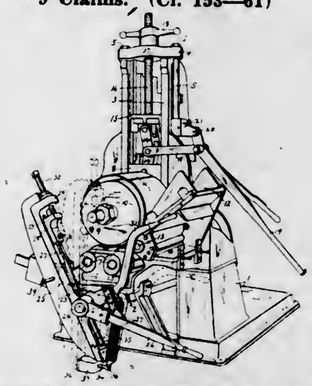
1. In a passenger railroad coach, a central longitudinal aisle, upper and lower passenger compartments on each side of said aisle, the upper compartments being positioned above the lower compartments, partitions between said upper and lower compartments, said partitions being in different planes, said upper and lower compartments having a standing section in which the height is greater than that of the average standing passenger and a reclining section in which the height is less than that of the average standing passenger, seats provided in said lower compartments for the accommodation of both the upper and lower compartment passengers, toilets in said upper compartments, collapsible wash bowls in said upper compartments, depressions in the floors of the lower compartments under one of the seats, toilets located in said depressions, collapsible wash bowls in said lower compartments and removable doors and panels to close said lower compartments from the centre aisle.

1,945,692
BRAKE SLACK ADJUSTER
Malcolm S. Johnson, Chicago, Ill., assignor to E. Payson Smith, Chicago, Ill.
Application September 12, 1929
Serial No. 392,019
1 Claim. (Cl. 188—200)



In combination with a floating lever of the brake gear mechanism of a railroad car, slack adjusting mechanism comprising a supporting element disposed lengthwise of the car, a rack arranged longitudinally of said element, a member slidable lengthwise of the element, a pawl carried by said member and normally engaging the rack whereby movement of the member in one direction is normally prevented, and pivot means carried by said member whereby said floating lever is fulcrumed on said member, said means being adapted to lock the pawl in engagement with the rack when in normal position.

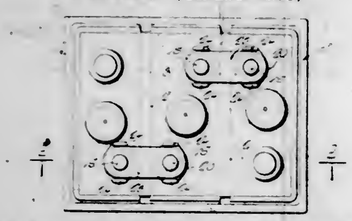
1,945,693
TIGHT WRAP BENDING MACHINE
William E. Kane, Syracuse, N. Y.
Application November 20, 1931
Serial No. 576,317
9 Claims. (Cl. 153—61)



1. In a metal bending machine, co-operative feeding and bending rollers, one of which is a forming roller around which the metal is bent, a supporting mandrel for the forming roller extending beyond one end thereof, said forming roller being displaceable axially from the extended end of the mandrel, a bearing member, means

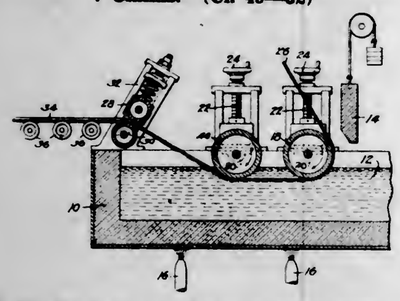
operable at will for moving the bearing member about an axis parallel with that of the mandrel for engaging said bearing member with the mandrel, and additional means for shifting said axis toward and from the mandrel to bring the bearing member into holding engagement therewith.

1,945,694
BATTERY
Carl H. King, Milwaukee, Wis., assignor to Globe-Union Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application August 17, 1931. Serial No. 557,544
2 Claims. (Cl. 136—168)



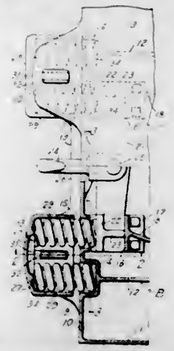
1. A battery including a cover provided with openings through which the posts of the battery project, sealing rings fitted on the posts within said openings, sleeves fitting around the posts and engageable with the sealing rings, a bayonet lock between each sleeve and the cover, and cell connectors between certain of said posts and engageable with the sleeves for holding them in operative position.

1,945,695
METHOD AND APPARATUS FOR MAKING WIRE GLASS
Charles B. Kingsley, Clairton, Pa., assignor to Mississippi Glass Company, New York, N. Y., a corporation of New York
Application November 7, 1929. Serial No. 405,308
7 Claims. (Cl. 49—32)



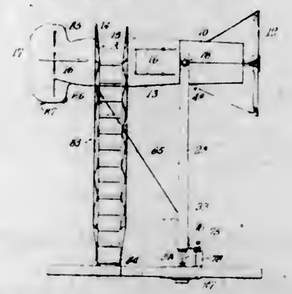
7. In apparatus for forming sheet wire glass, in combination, an open top receptacle for holding a molten glass bath, a plurality of imperforate, smooth faced cooling drums partially submerged in said bath which are adapted to increase the viscosity of the molten glass around the drums whereby a layer of relatively stiff smooth glass is formed solely thereby on the surface of said drums, means for artificially internally cooling said drums, means for revolving the same, means for moving a wire fabric in relation to said layers to encase said wire in glass, and means for regulating the thickness of said sheet comprising a plurality of rollers at least one of which is adjustable and independent of and in addition to the cooling drums.

1,945,696
DRAFT RIGGING
Harvey J. Lounsbury, Glen Ellyn, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application January 27, 1932. Serial No. 589,075
7 Claims. (Cl. 213—9)



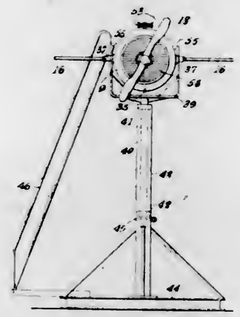
1. In a draft rigging for cars, the combination with inwardly movable buffing members at opposite sides of the end of the car; of a pair of laterally spaced springs opposing inward movement of each buffing member; and a transversely disposed pulling member at the corresponding end of the car, said pulling member being of a length less than the spacing between the outer springs of said pairs and engaging only the inner spring of each pair to oppose outward movement of said pulling member during a draft action.

1,945,697
AMUSEMENT AND TRAINING APPARATUS
Hugh J. Mallon, West New York, N. J.
Application August 20, 1932. Serial No. 629,586
10 Claims. (Cl. 35—12)



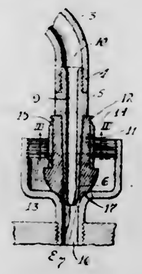
1. Apparatus of the character disclosed, comprising in combination, a U-shaped member composed of U-shaped channels one inside the other and arranged with the flanges of the inner channel faced outwardly and the flanges of the outer channel faced inwardly, said channels being spaced at the middle portion of the U-shaped member, cover plates overlying the flanges and securing the channels together at said spaced middle portions of the same, a pivotal mounting for said middle portion of the U-shaped member, a motor support pivoted horizontally in the arms of the U-shaped member, a motor mounted on said support, a propeller operated by said motor and a fuselage structure pivoted to said motor support and having movable control surfaces disposed in the air stream of said propeller.

1,945,698
AIRCRAFT TRAINING AND SPORT APPARATUS
Hugh James Mallon, New York, N. Y.
Application June 15, 1933. Serial No. 675,901
18 Claims. (Cl. 35—12)



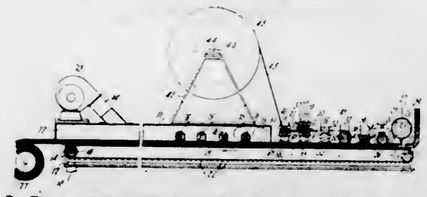
1. Apparatus of the character disclosed, comprising a fuselage structure mounted to rotate on a longitudinal axis, adjustable control surfaces carried by said structure, a motor mounted to rotate with said fuselage structure, a propeller driven by said motor through a direction reversing drive.

1,945,699
LUBRICATOR ATTACHMENT
Emmet H. Morrow and John C. Morrow, Chicago, Ill., assignors to T. H. Gauthreaux, Chicago, Ill.
Application December 22, 1930, Serial No. 504,022
Renewed May 17, 1933
1 Claim. (Cl. 285—163)



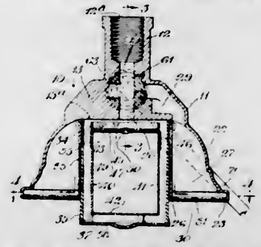
An attachment for application to the spout of a lubricator comprising a tip or nozzle member having one end threaded to engage a lubricator spout and the other end elongated and having a restricted discharge orifice therein, said tip having an enlargement adjacent the threaded end serving as an abutment against the spout end and also as engaging means for application and removal of the tip with respect to the spout, a sleeve of resilient material applied over the elongated end of the tip and moved into abutment with said enlargement, said sleeve when against said enlargement having its other end short of the discharge orifice in said tip member, the outer end of said sleeve being substantially semi-spherical for surface contact with an oil opening when said tip is applied to the same for lubrication purposes.

1,945,700
APPARATUS FOR APPLYING ADHESIVE PREPARATIONS
Raymond J. O'Brien, Rutherford, N. J., and Eardley Hazell, New York, N. Y., assignors to The Naugatuck Chemical Company, Naugatuck, Conn., a corporation of Connecticut
Application November 18, 1930
Serial No. 496,550
12 Claims. (Cl. 154—1)



2. In an improved device for applying an adhesive paste to pile materials, the combination of a source of parallelly arranged fibers in the form of a flat layer, means for continuously advancing such layer, means for depositing an adhesive paste on one face of said layer, and means for bending and flexing the fibers to work the adhesive paste into the surface of the layer and around the fibers thereof.

1,945,701
SPRAY DEVICE
William E. Pearl, Brooklyn, N. Y.
Application September 24, 1932
Serial No. 634,686
12 Claims. (Cl. 299—84)

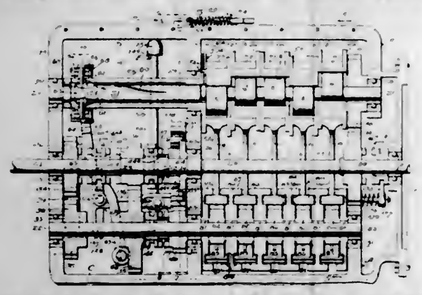


2. A shower head comprising a member provided with a water inlet and formed with a flat annular perforated wall having a central opening and a tubular wall extending from the inner periphery of said annular wall and a wall extending from the outer periphery of said annular wall forming a chamber with said tubular member, a casing extending into said tubular member and detachably attached to said member, said casing being formed with a perforated wall parallel to said flat annular wall, a container for salts within said casing, and valve means on said member for selectively directing water from said inlet to said chamber or casing.

1,945,702
VARIABLE SPEED TRANSMISSION
Walter Charles Pitter, Epping, England, assignor to The Pitter Trust, Chicago, Ill., a common-law trust
Application February 10, 1930. Serial No. 427,224
14 Claims. (Cl. 74—117)

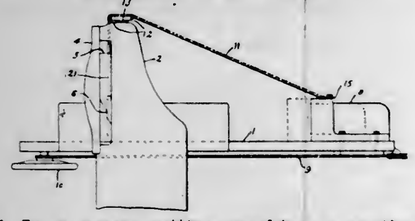
1. In a variable speed transmission, the combination of an input shaft, an output shaft, a cam shaft, a clutch shaft, a multiple cam and clutch mechanism connecting said cam shaft and

clutch shaft, a hand lever, means operable upon movement of the hand lever in one direction for establishing driving connection between said cam and clutch mechanism and the output shaft through the clutch shaft, and means operable



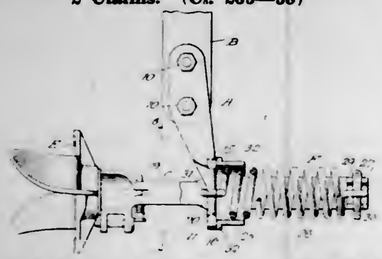
upon movement of the hand lever in a direction at right angle to the first named direction for varying the speed of the output shaft, said last named means being operatively connected with the cam shaft.

1,945,703
PAPER-CUTTING MACHINE
William M. Reichart, Cleveland, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application June 17, 1932. Serial No. 617,723
11 Claims. (Cl. 164—58)



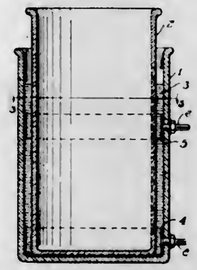
1. In a paper cutting machine, a vertically movable knife bar, a knife attachable to and detachable from said knife bar, and means adapted to be secured to said knife, and to temporarily support said knife by its upper edge during attachment or detachment thereof.

1,945,704
AUTOMATIC TRAIN PIPE CONNECTER
Joseph Robinson, New York, N. Y., assignor of one-half to Roy M. Wolvin, Montreal, Quebec, Canada
Application May 3, 1929. Serial No. 360,196
2 Claims. (Cl. 285—58)



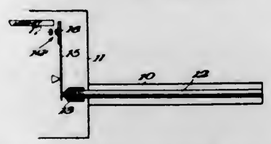
1. A device for supporting an automatic train pipe connecter head, comprising in combination, a yoke connected to said head and extending rearwardly thereof and having spaced portions, a bracket extending downwardly between said spaced portions of said yoke and having a portion provided with a seat on its front face, said yoke intermediate its ends having a part adapted to contact with the rear face of said bracket, a coiled spring arranged rearwardly of said bracket, said spring at its front end having a hook formed thereon which is hooked around said portion of the bracket and which engages said seat for rocking movement thereon, said spring at its rear end being operatively connected to said yoke at a point rearwardly of said bracket.

1,945,705
MEANS FOR HEATING A CONTAINER ELECTRICALLY
Carroll A. Ross, Piqua, Ohio
Application October 24, 1932. Serial No. 639,203
2 Claims. (Cl. 219—40)



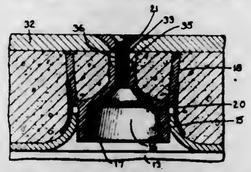
1. The combination with an outer vessel, of an inner container adapted to be inserted therein, two vertically spaced electrodes on the inner surface of said outer vessel, an electric circuit including said electrodes, and a conducting liquid in said outer vessel, said liquid covering the lower electrode and adapted to be raised by the insertion of the inner container to contact the upper electrode and thereby close the electric circuit between the electrodes to heat said liquid and through it the contents of the inner container.

1,945,706
THERMOSTAT
Leonard Satchwell, Slough, England
Application March 4, 1931, Serial No. 520,121, and in Great Britain November 12, 1930
6 Claims. (Cl. 200—137)



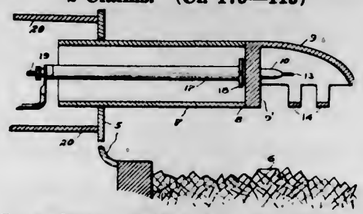
1. In a thermostatic switch, an expansion member comprising two longitudinally expanding parts secured together at one end, each part having an expansion coefficient, the expansion coefficients of said parts differing not more than by slight values, the mass area values of the parts of the expansion member being different and so related to the coefficients of expansion of said parts that upon a rapid change to a different temperature a temporary difference of dimension occurs which, to a major extent, is eliminated upon that different temperature being maintained.

1,945,707
ELECTRIC CONDUIT SYSTEM AND FITTING THEREFOR
L. Alan Sharp, Avalon, Pa., assignor to National Electric Products Corporation, New York, N. Y., a corporation of Delaware
Application February 25, 1929. Serial No. 342,532
13 Claims. (Cl. 247—3)



1. A conduit system of electrical distribution comprising a conduit with necks thereon at intervals, plugs fitted in said necks and serving to pre-form openings in concrete when the concrete is filled around the conduit and plugs, said plugs being adapted for removal to provide openings through the concrete for the insertion of service extensions, said conduit and plug assembly including flexible ring-like elements adapted to engage both the plugs and the necks of the conduit for the purpose described.

1,945,708
IGNITER FOR COAL FURNACES
Alfred Shearman, Toronto, Ontario, Canada
Application February 8, 1933. Serial No. 655,705
2 Claims. (Cl. 175—115)



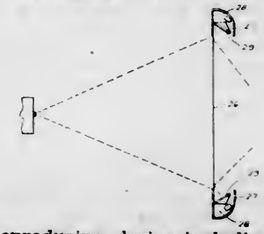
2. In a device of the class described, a head for disposition in the combustion chamber of a furnace, electrodes projecting into the head and having spaced points for producing an arc, said head forming a canopy for the electrodes and being adapted to catch gases, straps extending across the underside of the canopy to form a guard for the electrodes, and a support for the head.

1,945,709
METHOD AND MEANS FOR INSULATING ELECTRIC CONDUCTORS
Paul Simons, Weissig-Buhlau, near Dresden, Germany
Application September 17, 1931, Serial No. 563,310, and in Germany September 26, 1930
8 Claims. (Cl. 173—244)



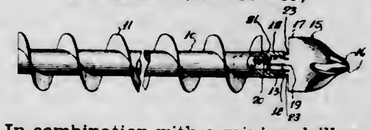
1. Method of insulating electric conductors consisting in applying fibrous insulating material in web form longitudinally near one of its edges to an adhesive-coated conductor, and in subsequently wrapping the loosely hanging web portion around the conductor with the web edges remaining substantially parallel to the conductor.

1,945,710
REPRODUCING DEVICE
John H. Smoot, New York, N. Y., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y., a corporation of Delaware
Application December 7, 1929. Serial No. 412,357
3 Claims. (Cl. 88—16.2)



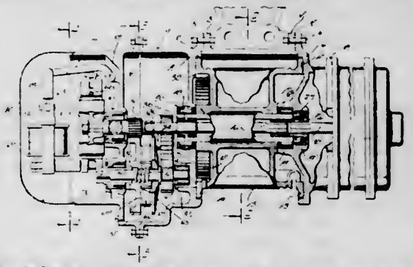
1. A reproducing device including a sheet of translucent material, a shield adjacent the edge thereof and a battery of substantially fixed reproducers also disposed adjacent the edge of said sheet, said shield and reproducers cooperating to direct sound waves against the sheet and to reflect such sound waves from the surface thereof.

1,945,711
MINING DRILL AND BIT
Frederick W. Vodoz, Wilmette, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 10, 1930, Serial No. 434,500
Renewed November 18, 1932
9 Claims. (Cl. 255—69)



1. In combination with a mining drill, a shank having an internally threaded forward portion, a bit having a stock, cutting edges projecting forwardly therefrom, and means for holding said bit within said shank comprising a tongue projecting rearwardly from said stock and a plurality of projections extending outwardly from the end of said tongue in opposite directions adapted to engage the threads in the internally threaded portion of said shank.

1,945,712
HOIST
Roy J. Wadd, Milwaukee, Wis., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application February 7, 1931. Serial No. 514,162
9 Claims. (Cl. 254—168)



2. A hoist comprising a motor housing, a gear casing, an arcuate frame member interposed between and securely fastened to the motor hous-

ing and the gear casing, said motor housing and gear casing having confronting end plates formed with inwardly directed annular flanges, a hoisting drum having its end portions rotatable within the confines of said flanges, means coacting with the hub of the drum and with the end plates of the housing and gear casing for supporting the drum for rotation, a motor in said housing, a drive line actuated by the motor and extending through said means, and reduction gearing in said gear casing and actuated from said drive line and having a driving connection with the end of the drum adjacent the end plate of the casing.

1,945,713
COMPASS
Samuel L. Wendell, Chicago, Ill.
Application December 10, 1930
Serial No. 501,283
1 Claim. (Cl. 33—222)



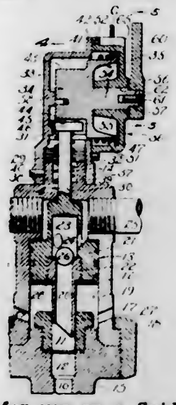
A pocket compass comprising a magnetized needle and a tubular case to enclose the needle when not in use, said case including a closure and being provided at one end with an externally convex bearing surface on which the needle may be balanced, the end portions of the needle being bent downwardly from its middle portion so that when said middle portion rests on said bearing surface the center of gravity of the needle is below the point of support and it can swing pivotally thereon in response to magnetic attraction without requiring any other means to retain it on the bearing.

1,945,714
PROCESS OF IMPREGNATING POROUS MATERIAL WITH SOLID SUBSTANCES
Alexander Winogradow, New York, N. Y.
No Drawing. Application July 22, 1930
Serial No. 469,939
9 Claims. (Cl. 91—68)

2. The process of impregnating resilient fibre board of substantial thickness, with a salt, consisting in completely impregnating said board with a solution of a salt, removing from throughout the thickness of said board a portion of said solution by squeezing the board up to substantially its elastic limit and then effecting the drying of the board.

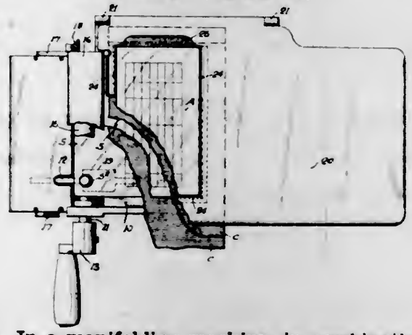
1,945,715
DISCHARGE HEAD FOR FLUID CONTAINERS
Otto N. Wiswell, Los Angeles, Calif., assignor, by mesne assignments, to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Application January 17, 1931. Serial No. 509,454
8 Claims. (Cl. 169—11)

1. A device for use on a discharge head for a container having a movable operating member for opening the container, said device including a body to be applied to the head, a cam carried by the body for operating the said member, a flexible element for actuating the cam, and means whereby the element may be made to pass from the body in any one of a plurality of different directions, said means including a cover member for the body having an opening for passing the element from the body, and means for removably attaching the cover member to the body in different positions.



8. A device for use on a fluid container discharge head having a movable operating stem which includes, a body adapted to be mounted on the head, a cam within the body for operating the stem, a drum in connection with the cam, a flexible operating element wound on the drum, a head for the body having an opening for passing the flexible element from the body, a shaft on the cam passing through an opening in the head, and an indicating arm on the shaft at the exterior of the body.

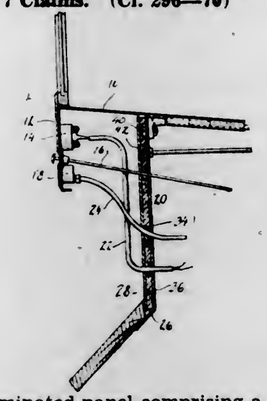
1,945,716
RECORD CONTROL FOR RECORDING MACHINES
Reginald H. Wood, Albany, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada, a corporation of Ontario, Canada
Application July 21, 1931, Serial No. 552,087
Renewed June 30, 1933
6 Claims. (Cl. 282—7)



1. In a manifolding machine, in combination, a cover plate forming the outside top plate of the machine and having an inscribing opening through which longitudinally movable continuous strips are exposed for reception of inscriptions and marginal guides for said opening for guiding and supporting a record card in aligned manifolding position with parts of the record strips exposed through said opening, said guides

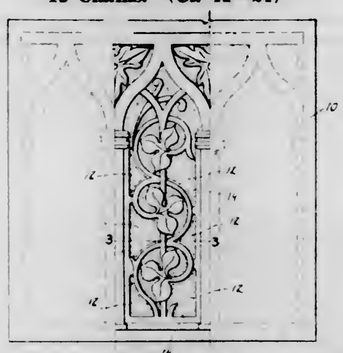
being positioned both forwardly and rearwardly and at one lateral margin of said cover plate opening and having downwardly extending contact surfaces positioned for contact engagement with the lateral and longitudinal edges of the record card so as to support said card in laterally and longitudinally aligned position.

1,945,717
LAMINATED PANEL AND FABRICATION
Herbert J. Woodall, Detroit, Mich.
Application January 11, 1932. Serial No. 585,899
7 Claims. (Cl. 296—70)



1. In a laminated panel comprising a plurality of plies secured to one another, an opening in an intermediate ply and substantially alined openings of smaller size extending through the remaining plies and a cushion insert disposed within the opening in the intermediate ply and having an opening therethrough alined with but of smaller size than the openings through the remaining plys.

1,945,718
FABRICATION OF THERMO-PLASTIC SHEET MATERIAL
Paul R. Zinser, Detroit, Mich., assignor to Woodall Industries Incorporated, Detroit, Mich., a corporation of Michigan
Application September 23, 1930
Serial No. 483,963
13 Claims. (Cl. 41—24)

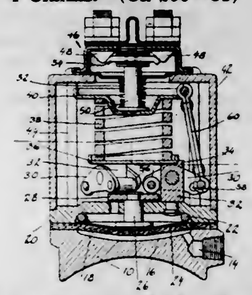


1. That method of forming a decorative grille of fibrous thermo-plastic sheet material comprising subjecting the same to die pressure to form a decorative surface thereon and simultaneously defining by debossed lines portions to be removed, and removing said portions by cutting the same along said debossed lines.

1,945,719
SYNTHETIC RESIN AND PROCESS OF MAKING SAME
Frank Arling Apgar, Hammond, and Arthur Runyan, Valparaiso, Ind., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 21, 1931
Serial No. 531,848
8 Claims. (Cl. 260—4)

1. In the manufacture of synthetic resins the improvement which comprises polymerizing unsaturated components of cracked petroleum distillates upwards of about 90% of which boil below about 450° F. to produce polymers boiling upwards of about 575° F., separating lower boiling oils from said polymers and resinifying a mixture including a phenol, an aldehyde and said separated polymers with a condensing agent.

1,945,720
SWITCH MECHANISM
Vincent G. Apple, Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application January 23, 1930. Serial No. 422,747
4 Claims. (Cl. 200—83)



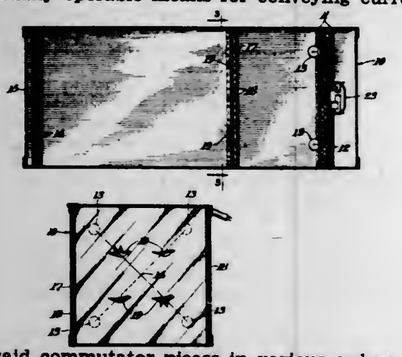
4. Switch mechanism of the class described comprising a casing, a coil spring therein, a plate arranged at each end of the spring, rocker mechanism operable to urge one of said plates to compress the spring, a link slidably coupled with said rocker mechanism and connected with the plate at the opposite end of the spring operable upon movement of said rocker mechanism against the first plate to compress the spring to simultaneously urge the other plate in the opposite direction against the tension of the spring, and a switch contact carried by said second plate.

1,945,721
METHOD OF AND APPARATUS FOR PRODUCING MOTION PICTURES
William N. (Tampton) Aubuchon, Jr., New York, N. Y.
Application July 25, 1931. Serial No. 553,127
37 Claims. (Cl. 40—132)

1. The combination of a plurality of light bulbs, a support for a series of representations of an object whose motion it is desired to show, and a screen on the opposite side of said representations from said light bulbs, each of said bulbs and a corresponding representation being so arranged that the shadows of said representations of said object, when thrown upon said screen by the successive lighting of a plurality of said bulbs, shall give the appearance of more or less continuous motion of said object.

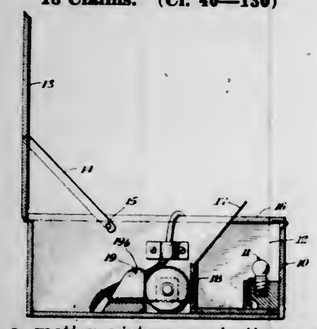
24. The combination of a screen, a series of stationary lamps, a film having a plurality of figures thereon, said lamps being so placed as to

throw images of said figures on said screen, commutator pieces connected with said lamps, and manually operable means for conveying current



to said commutator pieces in various orders, to produce different motion picture effects at will, said commutator pieces having a track for guiding said manually operable means.

1,945,722
METHOD OF AND APPARATUS FOR PRODUCING MOTION PICTURES
William N. (Tampton) Aubuchon, Jr., New York, N. Y.
Application September 9, 1932. Serial No. 632,352
18 Claims. (Cl. 40—130)

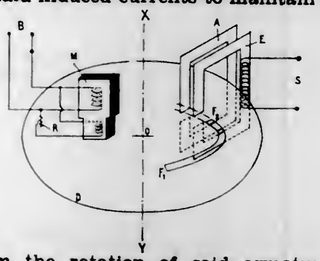


1. In a motion-picture projecting apparatus, the combination of a screen, a plate having a plurality of images thereon, said plate being at an angle to said screen, and a series of lights some of which are off the vertical center of said screen adapted to throw shadows of said images on said screen, said images on said plate being so distorted as to throw undistorted shadows on said screen.

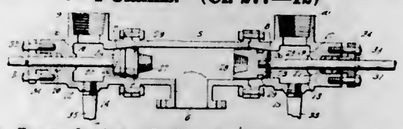
15. In a motion-picture projector, a box having electric lights therein, and having a vertical screen, a plate having images thereon, and a rack for holding said plate between said lights and said screen.

1,945,723
SYNCHRONOUS INDUCTION-MOTOR
René Barthelemy, Fontenay aux Roses, France, assignor to Compagnie pour la Fabrication des Compteurs et Material d'Usines a Gaz, Montrouge, France
Application February 24, 1932, Serial No. 594,840, and in France February 28, 1931
4 Claims. (Cl. 172—293)

1. A synchronized electric motor having a rotating armature of conducting material, electromagnetic means for exerting a driving couple on said armature, an electromagnet energized by the synchronizing current for inducing currents in said armature in accordance with the synchronizing current, a polarized magnetic core near said electromagnet for producing a constant field acting on said induced currents to maintain in synchronism the rotation of said armature, said armature having an arc-shaped slot concentric with its axis of rotation and passing during each revolution of said armature between the poles of said electromagnet and magnetic core, whereby the phase of rotation of the armature depends on the phase of the synchronizing current.

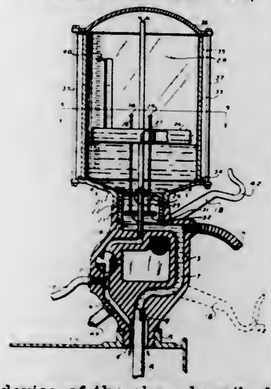


1,945,724
MANIFOLD
Edward M. Beebe, Shawnee, Okla.
Application September 3, 1930. Serial No. 479,464
4 Claims. (Cl. 277—12)



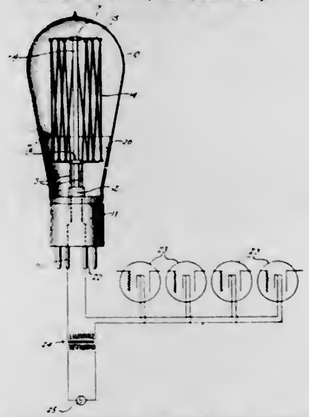
1. In a device of the character disclosed, the combination of a manifold body having valve seats at opposite ends of the same, a valve member shiftable longitudinally in said manifold for cooperation with said valve seats, valve rods connected with said valve member and projecting from opposite ends of the manifold, said valve member composed of separable valve parts adapted to be coupled and uncoupled by manipulation of the exposed portions of the valve rods.

1,945,725
LIQUID DISPENSING DEVICE
William H. Bonney, Oregon City, Oreg.
Application July 29, 1932. Serial No. 626,067
4 Claims. (Cl. 221—100)



1. In a device of the class described, the combination of a body element, means associated therewith for removably securing the same in open communication with a container, a fluid holder superposed upon the body element and hermetically sealed relative thereto, an air duct extending through the body element and in open communication with the container and the fluid holder, a fluid duct intercommunicating between the container and the fluid holder through a float actuated valve, a multiple way valve arranged within the body element and adapted to direct air pressure through the air duct or to exhaust the same.

1,945,726
BALLAST DEVICE
Carl P. Brockway, Ridgewood, N. J., assignor to World Bestos Corporation, Paterson, N. J., a corporation of Delaware
Application September 7, 1928. Serial No. 304,397
5 Claims. (Cl. 201—63)

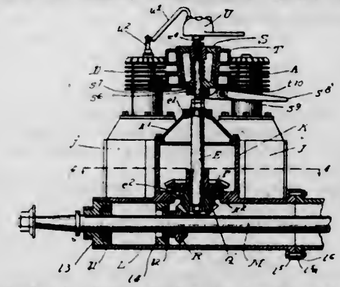


1. In a compensating device for voltage variations, an envelope, a relatively long iron wire within said envelope, said wire being encased in a shield of chromium an inert gas surrounding said wire, and a reflecting surface on the envelope whereby heat from the wire is reflected back into the envelope.

4. In a resistance device an elongated envelope adapted for positioning normally in a vertical position, a resistance element mounted within and along the axis of said envelope, said element being adapted for heating by the passage of an electric current therethrough, an inert gas within said envelope, and a reflecting surface on the lower portion of said envelope for reflecting heat radiated from the filament into said envelope and upon the adjacent portion of said element.

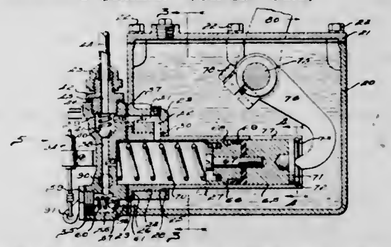
1,945,727
INTERNAL COMBUSTION ENGINE
John Braunwalder, Los Angeles, Calif.
Application June 16, 1930. Serial No. 461,360
2 Claims. (Cl. 123—58)

1. In an internal combustion engine, a central housing of rectangular shape, the ends thereof forming a support for mounting a mastershaft rotatably therein, a master gear secured to said mastershaft within said central housing, an internal combustion engine provided with piston, connecting rod and crankshaft suitably secured to each of the sides of said rectangular shaped central housing, a pinion mounted on each of said crankshafts adapted to mesh with the master gear on said mastershaft, one end of said mastershaft adapted to operate a valve, a pinion secured to the other end of said mastershaft adapted to mesh with and rotate a gear secured to drive a shaft, said drive shaft rotatably



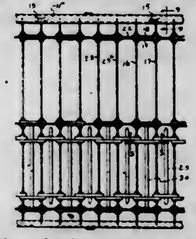
mounted at right angles to said master shaft within a series of connected tubular chambers, each tubular chamber connected to a central housing, a series of engine units as above described adapted to operate said drive shaft.

1,945,728
HYDRAULIC BRAKE
Alanson P. Brush, Detroit, Mich.
Application July 1, 1931. Serial No. 548,136
5 Claims. (Cl. 60—54.6)



1. In a hydraulic braking system, in combination, a master cylinder, a piston reciprocable therein, said system including a main passage connecting said cylinder with said system, a second passage connecting said cylinder with said system, and a third passage connecting said cylinder with a reserve source of liquid supply, and means in said second and third passages permitting flow of liquid therethrough in a predetermined direction only.

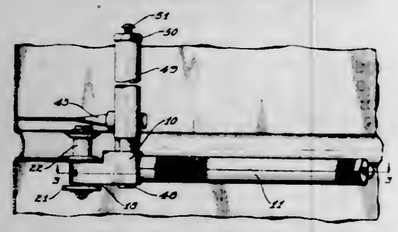
1,945,729
PROTECTIVE DEVICE FOR WINDOWS
Elliott A. Callender, Peoria, Ill.
Application June 3, 1932. Serial No. 615,107
5 Claims. (Cl. 189—79)



1. A protective device for windows comprising in combination upper and lower track portions, a series of fixedly secured, dual vertical guard members having their upper and lower ends carried in

said tracks, intervening pivotal connections for said guard members and mechanism automatically operating in connection with said track members for automatically collapsing the guard in a minimum of space.

1,945,730
PAINTING INSTRUMENT
John M. Christman, Detroit, Mich., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application March 23, 1928. Serial No. 263,995
18 Claims. (Cl. 91—62.6)



1. A painting instrument comprising a body portion, a hollow handle integral therewith, a pumping means positioned in the body portion and connected with the interior of the handle, an oscillatory nozzle on the body portion connected with the pumping means, a guide for the instrument and means connecting the guide and the pumping means for operating the pumping means.

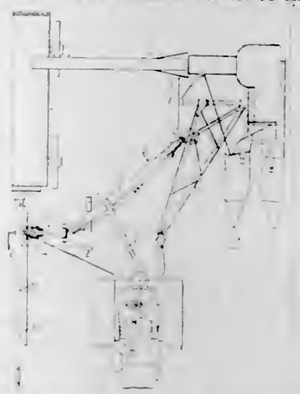
1,945,731
ELECTRICAL OUTLET MOLDING
Michael Cohen, Brooklyn, N. Y.
Application December 18, 1930
Serial No. 503,162
6 Claims. (Cl. 247—3)



3. In an assembly of the character described, a casing of channeled cross section, an insulating liner seated in the channel of the casing and of triple U-shaped cross section to provide parallel channels extending longitudinally of the casing in spaced apart relation, and resilient conductor strips positioned within two of said channels.

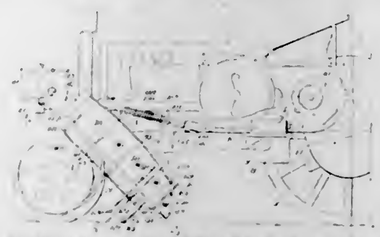
1,945,732
WAGON HITCH
Wilbur J. Coultas, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 3, 1933. Serial No. 669,142
14 Claims. (Cl. 280—33.44)

1. The combination of a tractor, an implement, a wagon, a draft device connecting the implement with the tractor, a substantially rigid member connected with the wagon and means carried by the draft device and frictionally engageable with said rigid member to transmit draft to the wagon



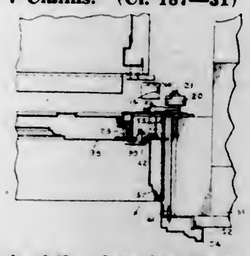
and to hold the same against advancing relative to the implement.

1,945,733
STALK SHREDDING IMPLEMENT
Frank T. Court, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 11, 1930. Serial No. 460,329
39 Claims. (Cl. 97—47)



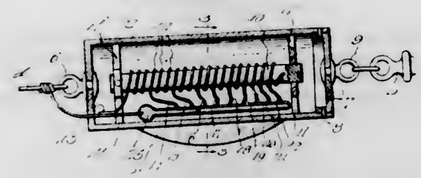
1. A device of the class described comprising, in combination, a tractor having a power take-off, a supporting member carried by the tractor, stalk shredding means having one end movably carried by the supporting member and the other end supported on the ground, and connections from the power take-off of the tractor to the shredding means to drive the same.

1,945,734
DOORLOCK AND FRAMING
Harry R. Cullmer, Hollis, N. Y.
Application October 3, 1929. Serial No. 396,964
7 Claims. (Cl. 187—31)



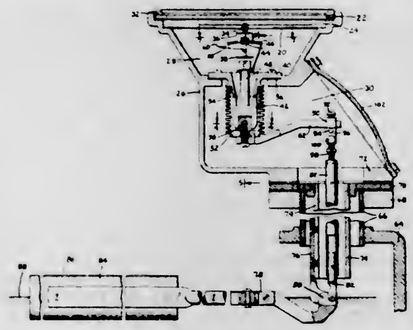
1. In a lock of the class described, a shaft and a lock operating means carried thereby, a lever upon said shaft for operating said means, and an electrical contact lever on said shaft for controlling an electric circuit substantially simultaneously with the operation of said means.

1,945,735
ANTENNA COMPENSATOR
Chester L. Davis, Keokuk, Iowa, assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application July 24, 1930. Serial No. 470,461
7 Claims. (Cl. 250—33)



1. An antenna compensator comprising a suspension member connected with an antenna conductor said suspension member including an inductance device electrically connected in series with the antenna conductor and forming an electrical extension thereof and thermostatic means connected with said inductance device for varying the frequency characteristic thereof for compensating for changes in frequency of said antenna conductor under conditions of variable temperature.

1,945,736
LIQUID LEVEL INDICATOR
Clarence A. de Giers, Forest Hills, N. Y., assignor, by mesne assignments, to Richard C. Murphy, New York, N. Y.
Application July 10, 1929. Serial No. 377,088
4 Claims. (Cl. 73—82)

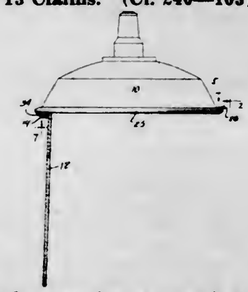


1. In apparatus of the class described, in combination, a body member adapted for mounting on a tank containing liquid, a member pivoted on said body member, a head on said pivoted member, means rigidly attached to said head for rotating said pivoted member, a float on the liquid, a float arm pivoted on said body member, means pivoted on said float arm interconnecting said float and said rigidly attached means whereby said first mentioned pivoted member is moved when a change of liquid level moves the float, and a sylphon interconnecting said head and said body for sealing said pivoted member from the tank contents.

1,945,737
HEAT TREATMENT OF ALUMINUM-MAGNESIUM ALLOYS
Edgar H. Dix, Jr., Oakmont, Pa., and Louis W. Kempf, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application December 23, 1930
Serial No. 504,278
6 Claims. (Cl. 148—21.1)

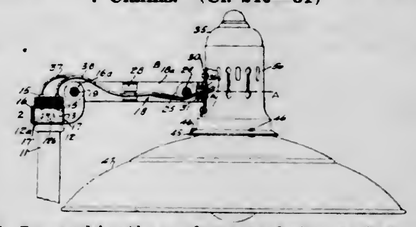
1. The method of treating an aluminum base alloy containing from about 5 to 20 per cent magnesium to improve the physical properties thereof, comprising heating the alloy for about 5 to 20 hours at a temperature from about 250° to 450° C., and cooling the alloy rapidly enough to preserve the benefits of the heating.

1,945,738
DUST COVER FOR REFLECTORS
Leroy C. Doane, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application May 2, 1930. Serial No. 449,154
13 Claims. (Cl. 240—103)



1. Means for securing a cover to a shade comprising an expansible and contractible band embracing adjacent edges of the cover and shade and having overlapping end portions adapted to slide relative to one another as the band is expanded or contracted, and means for contracting said band comprising a lever pivoted to the outer end portion of the band to swing in a plane transverse of the plane of the band, the lever being connected to a tension spring, the other end of the spring being connected to a member carried by the other end portion and projecting outwardly, and guiding means whereby the end portions slide relative to one another and are prevented from twisting away from one another when the lever is swung.

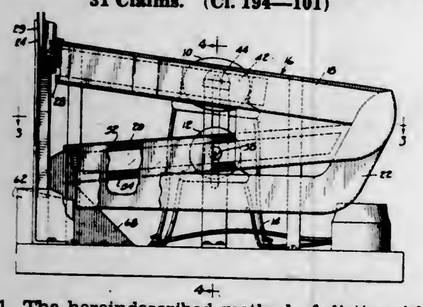
1,945,739
ADJUSTABLE BRACKET FOR LAMPS
Leroy C. Doane, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application October 23, 1931. Serial No. 570,533
7 Claims. (Cl. 240—81)



1. In combination, a lamp socket, a socket cover in which the socket is secured, the socket cover

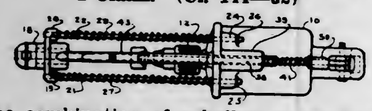
having a side outlet for admitting wires, a strap secured to the outside of the socket cover opposite the side outlet, a supporting strap and an eyelet coaxial with the side outlet for securing the two straps together to permit turning of the socket cover relative to the supporting strap.

1,945,740
ART OF TESTING COINS OR OTHER TOKENS FOR GENUINENESS
Theodore M. Edison, East Orange, N. J., assignor, by mesne assignments, to Fairfield Specialties Corporation, New York, N. Y., a corporation of New York
Application May 5, 1932. Serial No. 609,378
31 Claims. (Cl. 194—101)



1. The hereindescribed method of distinguishing between genuine and spurious coins, tokens or like devices which consists in subjecting a device to the successive action of fluctuating magnetic fields, the eddy current effect of one field being such as to eliminate certain of the various spurious devices which may be presented for test and the eddy current effect of the other field being such as to eliminate other of the various spurious devices which may be presented for test.

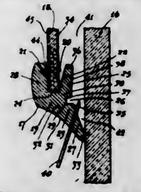
1,945,741
SCREW DRIVER
Winfield E. Gray, Pawtucket, R. I.
Application February 9, 1933. Serial No. 655,969
1 Claim. (Cl. 144—32)



The combination of a hollow screw driver, a drill slidable in the hollow screw driver and rotatable with it, a pilot head, means for revolvably supporting the screw driver in the head and means for feeding screws to the head.

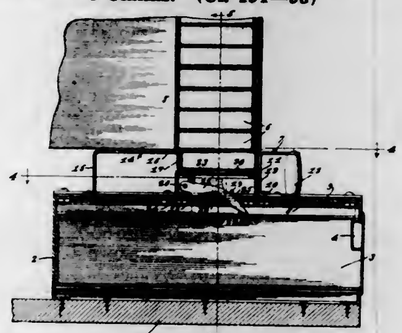
1,945,742
FROST SHIELD
William Peter Hilger, St. Cloud, Minn.
Application October 28, 1931. Serial No. 571,561
14 Claims. (Cl. 20—40.5)

1. A frost shield comprising a frame formed of flexible material, said frame consisting of a body having a groove therein for the reception of a pane of glass and a base coextensive with the length of the frame for engagement with the surface on which the frame is to be applied, said base having a groove in it coextensive with the length of the frame, said groove being disposed medially of the edges of said base to form inner and outer flaps adapted to engage the surface on which the frame is applied, said flaps being formed so that their free edges are adapted to engage the surface on which the frame is applied in advance of the portion of the surface thereof adjoining said groove, as the body of the frame is



brought into position upon said surface, said outer flap normally extending further from the surface of the pane of glass so as to first contact with the surface on which the frame is applied as the frame is brought into position.

1,945,743
VENDING MACHINE
John W. Ing, Longview, Tex.
Application March 25, 1932. Serial No. 601,250
3 Claims. (Cl. 194—93)

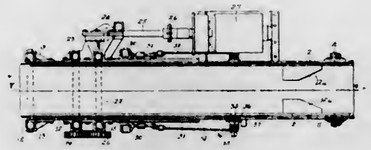


1. A coin control mechanism comprising a housing having a coin slot including enlarged and restricted portions positioned over a coin compartment, a slide carried by said housing and having a coin opening to move over the slot during the movement of the slide, and a pivotally mounted coin ejector carried by said housing and riding on the slide to enter the coin opening and the coin slot during said movement of the slide without a coin in the opening thereof, said slide having an ejector slot to receive the ejector and permit the latter to engage an end wall of the ejector slot after the passing of the ejector over a coin in the coin opening to cause the ejector to pivot and force the coin from the coin opening through the enlarged portion of the coin slot into the coin compartment.

1,945,744
APPARATUS FOR MINING COAL
Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Original application December 3, 1926, Serial No. 152,455. Divided and this application February 16, 1929. Serial No. 340,431
2 Claims. (Cl. 198—204)

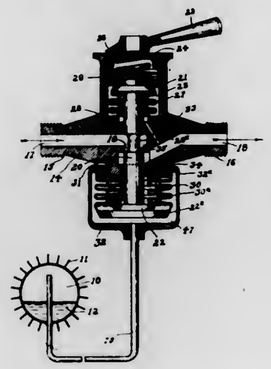
1. In an apparatus of the class described, the combination with a horizontally extending plate having upturned flanges along its lateral edges, of a second plate having similar upturned flanges interposed between the first mentioned flanges

above the first mentioned plate, the adjacent flanges being secured together with their upper edges in substantially the same plane to form a



rigid frame having an upper runway and a lower runway, and an endless conveyor element adapted to travel in said runways as and for the purpose set forth.

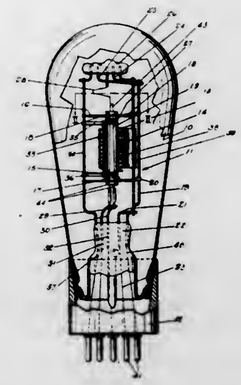
1,945,745
THERMOSTAT CONTROLLING TEMPERATURE FOR CENTRAL HEATING SYSTEM
Pierre Maurice Jauvert, Bois Colombes, France, assignor, by mesne assignments, to Geo. M. Cressaty, Paris, France
Application March 9, 1929. Serial No. 345,800
15 Claims. (Cl. 236—99)



8. In an apparatus for controlling the flow of a fluid, a casing having a fluid passage therethrough, a valve in said casing for controlling the flow of fluid in the passage, a pair of spaced elastic members in said casing for actuating said valve having chambers on each side thereof, said casing having passages connecting two of said chambers with the fluid passage, a temperature responsive fluid communicating with another of said chambers and means for adjusting said valve to a predetermined actuating temperature.

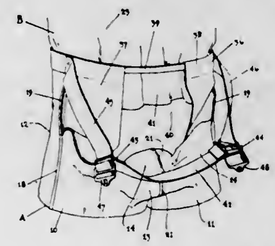
1,945,746
ELECTRON DISCHARGE DEVICE WITH INDIRECTLY HEATED CATHODE
Ernest A. Lederer and John W. Marden, East Orange, N. J., assignors to Westinghouse Lamp Company, a corporation of Pennsylvania
Application November 16, 1927
Serial No. 233,537
3 Claims. (Cl. 250—27.5)

1. An electron discharge device comprising an evacuated envelope, a hollow thermionically active uni-potential cathode and an anode, an electron emitting filament within said cathode having its opposite ends non-inductively arranged, said electron emitting filament extending beyond one limit of said cathode and means ex-



ternally of said cathode for shielding said anode from the electrons emanating from said electron emitting filament.

1,945,747
GARMENT
Charles E. Martin, Minneapolis, Minn.
Application February 6, 1932. Serial No. 591,344
11 Claims. (Cl. 2—70)

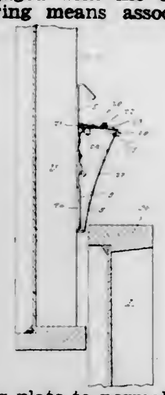


1. A garment comprising a jacket, formed with a tail at the rear thereof, trousers connected to the front of the jacket and free from the jacket at the rear thereof, a skirt connected to said trousers and overlying said tail to hold the same in position upon the person of the wearer, said skirt being constructed to provide an opening through the garment, and a drop seat on the trousers overlying said skirt and covering the opening.

1,945,748
WINDOW ATTACHMENT
James F. McDaniel, University City, Mo.
Application April 7, 1933. Serial No. 664,981
4 Claims. (Cl. 116—16)

1. A safety window device of the class described comprising a bracket plate, a cartridge carrier plate hingedly mounted on the bracket plate, a hammer head mounted at one end of the bracket plate, a spring element mounted at the other end of the bracket plate and having means

detachably engaged with the cartridge carrier plate, and spring means associated with the



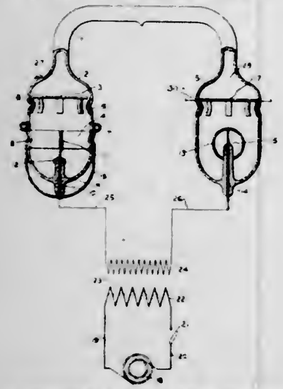
cartridge carrier plate to normally swing it in a position to abut the hammer head.

1,945,749
VAPOR ELECTRIC DEVICE
William Gregor Moran, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania
Application July 26, 1930. Serial No. 470,786
3 Claims. (Cl. 250—27.5)



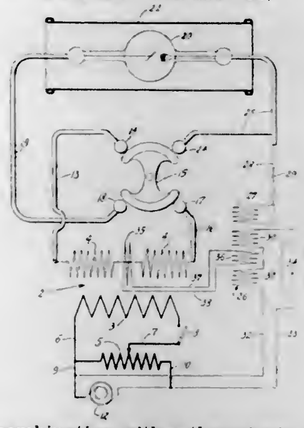
2. A cathode comprising a crimped hollow shell having its exterior surface adapted to emit electrons upon being heated, said shell having a plurality of spaced depressions extending along selected areas thereof, the width of said depressions being no greater than the depth thereof.

1,945,750
LUMINOUS DISCHARGE DEVICE
Montford Morrison, Chicago, Ill., assignor, by mesne assignments, to Westinghouse Lamp Company, a corporation of Pennsylvania
Application March 5, 1929. Serial No. 344,416
7 Claims. (Cl. 176—126)



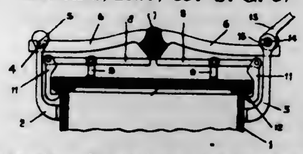
1. In a luminous discharge device comprising an hermetically sealed envelope having an elongated restricted portion with enlarged ends and containing a rarefied gas within said envelope, an electrode disposed within each of the enlarged ends of said envelope and operable when supplied with electrical energy to cause a discharge through the elongated restricted portion of said envelope between said electrodes, and a baffle plate of electrically conductive material disposed adjacent each of said electrodes in the path of discharge therebetween.

1,945,751
DISCHARGE TUBE STABILIZER SYSTEM
Montford Morrison, Montclair, N. J., assignor to Westinghouse X-Ray Company, Inc., a corporation of Delaware
Application January 19, 1931. Serial No. 509,572
9 Claims. (Cl. 250—34)



1. In combination with a thermionic discharge tube provided with an electron emitting cathode and subject to variations in discharge current, a high-tension transformer for energizing said tube, a low-tension transformer for supplying heating energy to the cathode of said tube, a tertiary winding wound upon the core of said high-tension transformer, a tertiary winding wound upon the core of said low-tension transformer and connected to said first mentioned tertiary winding whereby the current in one of said transformers is varied in accordance with the variations of current in the other of said transformers for stabilizing the discharge current of said tube.

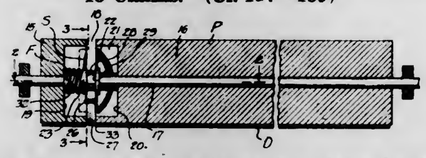
1,945,752
CAM LEVER CLOSING ARRANGEMENT FOR PRESSURE COOKING POTS
Andrea Riccardo Pagano, Genoa, Italy
Application April 18, 1932, Serial No. 605,998, and in Italy April 17, 1931
3 Claims. (Cl. 220—57)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. In a system for tightly closing pressure pots and like containers, a pair of opposite brackets rigidly attached to the pot and having forked ends, a stud connecting the prongs of the forked ends of one of the brackets, pivot bearings on the other bracket having entrance slots, a cam lever having rigid pivots cut partially along a plane parallel to their axis and in the direction of the arm of the lever and adapted to be inserted in

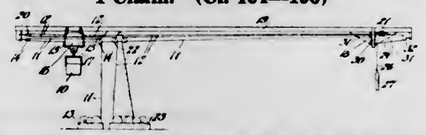
the said slots only in the position of minimum excentration of the said cam, a yoke having a notch at one end for engaging said stud and having the other end engaged by the cam lever, a cover for the pot adapted to tightly close the said pot, and means on the cover adapted to coact with the center of the said yoke and to tightly close the cover of the pot when being depressed by the said yoke upon operation of the said cam lever in one direction and to release the pressure on the cover of the pot when turned in opposite direction, the whole being so arranged as to permit the egress of the cut pivots of said cam lever only in case no upward pressure is exerted through said yoke on the cam lever.

1,945,753
SIGNALING DEVICE FOR TYPEWRITERS
James Y. Payton, Long Beach, Calif.
Application July 27, 1931. Serial No. 553,409
15 Claims. (Cl. 197—189)



10. In combination, a typewriter platen having means intermediate its ends defining an open air chamber therein, a bell in the air chamber, and means located wholly between the ends of the platen for sounding the bell when the bottom edge of a sheet of paper extended around the platen, reaches a predetermined location.

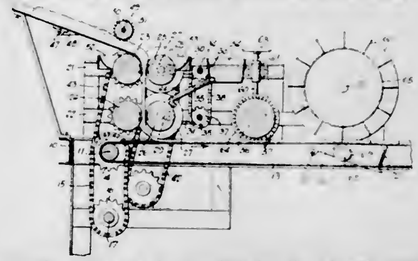
1,945,754
TRAVERSE ROPE TAKE-UP
Frank B. Peebles, Hudson, N. Y., assignor to Gifford-Wood Company, Hudson, N. Y., a corporation of New York
Application May 13, 1931. Serial No. 537,170
1 Claim. (Cl. 104—196)



An automatic slack take-up device for the traverse ropes of trolley bucket systems comprising, in combination, a relatively large drum having a pawl and ratchet permitting rotation thereof in one direction only; a relatively small drum coaxial with and secured to the large drum; a freely rising and descending weight; a cable attached to the large drum and supporting the weight so that the weight tends to rotate the large drum in the direction permitted by the pawl and ratchet; another cable attached to the smaller drum and adapted to be wound thereon by the descent of the weight; and means connecting the last-mentioned cable with the traverse ropes.

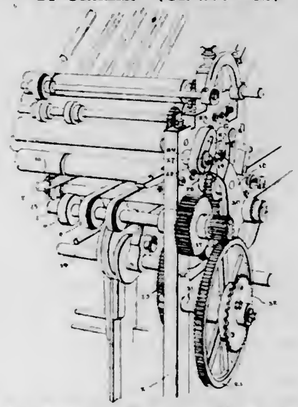
1,945,755
DOUGH HANDLING MACHINE
Oscar De Witt Scruggs, Jr., Chattanooga, Tenn.
Application October 21, 1932. Serial No. 638,958
5 Claims. (Cl. 107—23)

2. A dough handling machine comprising means for conveying a sheet of dough along a predetermined path; a rotary puncturing element having peripheral series of teeth for puncturing the dough sheet as it is being fed by the first means, so as to evacuate air from, and prevent natural shrinkage of the live dough; said element having untoothed portions engaging the



conveying means to maintain the teeth out of contact with the conveying means and to drive the element from the latter; and means for dividing the punctured dough sheet into sections as it is being conveyed by the first means.

1,945,756
PAPER FOLDING MACHINE
Stewart L. Sharpless, Sidney, Ohio
Application August 23, 1932. Serial No. 630,115
16 Claims. (Cl. 270—62)

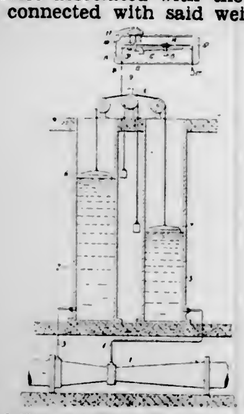


1. In a paper folding machine designed for operation with a multiple speed feeder and combining buckle and knife folding mechanisms, a primary constant speed drive shaft connected with the buckle folding mechanism and operating the same at a constant uniform speed, a second variable speed shaft connected with the knife folding mechanism, and means connecting the said shafts for driving the knife folding mechanism at a plurality of speeds in timed relation to the multiple speed feeder, while the buckle folding mechanism is maintained at a constant speed.

1,945,757
APPARATUS FOR CONTROLLING THE FLOW OF FLUIDS
William Smalley, London, England, assignor to The Paterson Engineering Company, Limited, London, England
Application December 22, 1930, Serial No. 504,136, and in Great Britain February 19, 1930
9 Claims. (Cl. 210—31)

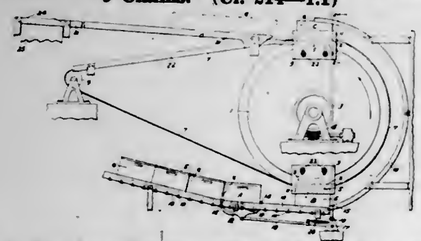
1. Apparatus for controlling the admixture of a gas with a flowing liquid comprising a controlling valve for the gas, a control beam mounted to swing about a fulcrum and actuate said valve, a weight movable along said beam to regulate the movement of the valve, and a differential

pressure device associated with the flow of the liquid and connected with said weight to vary



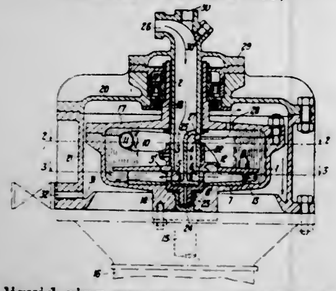
the effect of the weight on the valve in response to varying pressure conditions.

1,945,758
FRUIT DUMPING METHOD AND APPARATUS
George A. Turner, Stockton, Calif.
Application January 4, 1933. Serial No. 650,069
9 Claims. (Cl. 214—1.1)



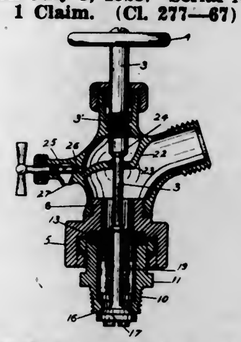
1. Box handling equipment comprising means for supporting a box of fruit with open side of box directed upwardly, a belt adapted for covering the box, means for covering the box with said belt, means for advancing the box and its covering belt and inverting both box and belt, and means for separating the box from the belt whereby the fruit is deposited upon the belt.

1,945,759
ROTARY GAS PUMP
James Sim, Cathcart, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Glasgow, Scotland, a corporation of Great Britain
Application November 8, 1933, Serial No. 697,220, and in Great Britain November 16, 1932
7 Claims. (Cl. 230—75)



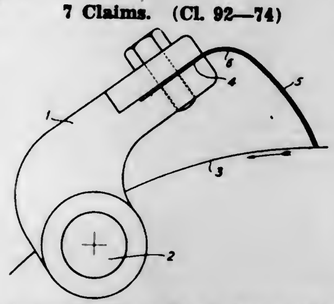
1. A liquid-ring gas pump comprising a rotary pump casing, a vaned impeller mounted within and rotatable with said casing, said impeller having a central eye, stationary means shrouding part of the periphery of said impeller, a stationary tubular scoop within said casing, said scoop having an inlet for liquid located near the periphery of said casing and an outlet directed into the shrouded part of said impeller, and a stationary pipe structure extending axially of said casing and provided with gas inlet and outlet ports communicating with said eye.

1,945,760
VALVE
James Strouf, Stratford, Wash.
Application July 3, 1928. Serial No. 290,249
1 Claim. (Cl. 277—67)



In a valve device capable of use for a hose connection, the combination of a casing having an upper outlet port and means for coupling to a pipe-line, an angular partition in the casing having a valve seat and forming a drain chamber separate from the main portion of the casing, a manually operated screw-threaded valve stem mounted in the casing and projecting through said valve seat, a valve on the stem for closing said seat, a drain nozzle connected with the drain chamber, and a manually operated screw-threaded valve for controlling passage of water through said drain nozzle.

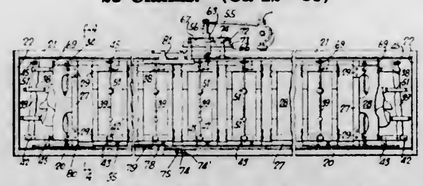
1,945,761
DOCTOR FOR PAPER-MAKING MACHINERY
Frederick William Vickery, London, England, assignor to Vickery Incorporated, a corporation of Massachusetts
Original application May 3, 1930, Serial No. 449,442, now Patent No. 1,883,167, dated October 18, 1932. Divided and this application July 27, 1932, Serial No. 625,074, and in Italy May 7, 1930
7 Claims. (Cl. 92—74)



1. A doctor for the rolls of paper-making machines comprising a carrier and a resilient blade extending the axial length of the roll secured at one edge to said carrier and having its other edge

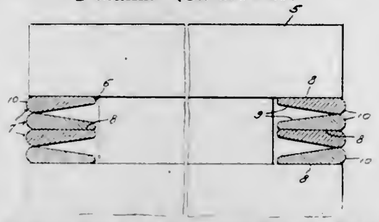
applied to the roll, said blade being curved in cross section so that at the edge bearing upon the roll it stands at a larger angle to the tangent plane to the roll at the line of contact with the blade than does the part secured to the carrier.

1,945,762
SOLE-AFFIXING MACHINE
Arthur J. Weiss, West Orange, N. J., assignor to Compo Shoe Machinery Corporation, New York, N. Y., a corporation of Delaware
Application December 18, 1929
Serial No. 414,846
23 Claims. (Cl. 12—36)



1. In a machine of the class described, in combination, a movable carrier, a plurality of shoe presses mounted on said carrier and adapted to be moved through a circuitous path thereby, each of said presses including an inflatable pressure pad having an inlet valve and means for holding a shoe against said pad, a source of fluid pressure disposed adjacent said carrier, said source of fluid pressure being limitedly movable along the path of the presses, and means for aligning the inlet valve of each press with the said source of fluid pressure over at least a portion of the range of the limited movement thereof as the press passes.

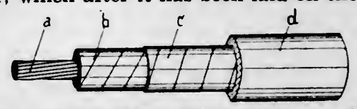
1,945,763
PISTON RING
Martin H. Winstead, Lexington, Nebr.
Application March 20, 1933. Serial No. 661,846
1 Claim. (Cl. 309—29)



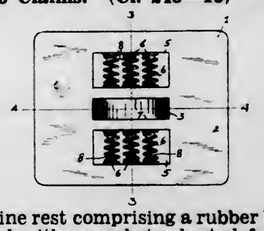
In combination with a piston ring having a circumferential packing groove, a packing arranged within the grove and including a plurality of superimposed split, annular, expansible resilient ring members, each of said ring members being substantially wedge shaped in cross section, the outer edge of each of said ring members being of greater axial width than its inner edge.

1,945,764
HIGH TENSION SUBMARINE CABLE
Georg Zapf, Cologne, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany
Application March 14, 1930, Serial No. 435,946, and in Germany March 16, 1929
2 Claims. (Cl. 173—266)

2. A high tension submarine cable consisting of an oil-impregnated paper insulation provided on the conductor, a non-metallic layer impermeable to oil provided on the said oil-impregnated paper insulation, and a protecting sheathing of a rubber, which after it has been laid on the conductor is impregnated with molten paraffin at or in the neighborhood of the surface for the purpose of closing the pores.

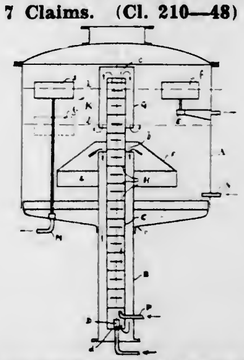


1,945,765
MACHINE REST
Harry Alpern, Pittsburgh, Pa., assignor of one-half to L. B. Cook, Pittsburgh, Pa.
Application February 7, 1933. Serial No. 655,593
5 Claims. (Cl. 248—16)



4. A machine rest comprising a rubber body portion provided with a pocket adapted for the reception of a foot of the machine, a pair of recesses formed in said body portion and disposed on respective sides of said pocket, and a resilient element disposed in each of said pair of recesses and engaging the pocket side walls for forcing the latter against the foot of the machine.

1,945,766
AUTOCLAVE
Thomas Walter Barber, London, England
Application September 13, 1928, Serial No. 305,853, and in Great Britain September 30, 1927
7 Claims. (Cl. 210—48)



7. In an apparatus for separating mixed liquids by gravity, the combination of a closed chamber, means for continuously feeding the mixture to be separated into said chamber, said chamber being of a sufficiently large volume to effect a separation of the liquids into distinct layers by gravity, means for continuously discharging the lighter separated liquid from a point near the surface thereof, means for continuously discharging the heavier separated liquid from a point near the bottom of said chamber, the means for feeding the mixture into the chamber being positioned to discharge the mixture therein

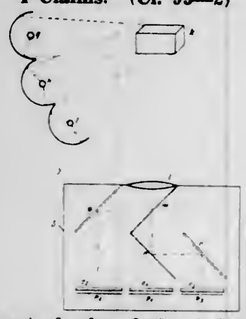
at a point between the outlets and intermediate the layers of separated liquids, a conduit for withdrawing a portion of the intermediate layer of liquid at a point between the lower outlet and the inlet for the mixture and for mixing the withdrawn liquid with the incoming mixture for recirculation, and a hood positioned in said chamber directly above the intermediate point at which the liquid is withdrawn for recirculation and extending laterally and downwardly over the end of said conduit to avoid withdrawal of the lighter separated liquid and the incoming mixture from the chamber.

1,945,767
DENTAL PLATE
Paul Bergerhausen, Düren, and Josef Kufferath, Mariaweiler, Germany
Application August 5, 1931, Serial No. 555,342, and in Germany August 11, 1930
5 Claims. (Cl. 32—4)



2. A dental plate consisting of woven wire, the warps and wefts thereof extending over at least two cross members before interlacing with the next member resulting in the formation of a structure with comparatively long straight stretches of the material which produce smooth surfaces when the structure is shaped to produce a plate conforming to the irregularities of the palatal surface of the mouth and positioned to form supporting arches capable of resisting strong compressive stresses.

1,945,768
PROCESS FOR LOWERING THE CONSUMPTION OF LIGHT IN COLOR PHOTOGRAPHY
Herbert Bertling, Berlin, Germany, assignor to Kurt Dicken, Berlin-Charlottenburg, Germany
Application May 27, 1931, Serial No. 540,451, and in Germany June 7, 1930
4 Claims. (Cl. 95—2)



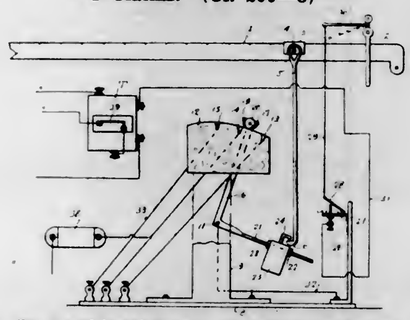
1. In the art of color photography the method of producing a plurality of monochromatic partial images of an object to be photographed which comprises interposing between the object and a light-sensitive film a plurality of light filters having relatively wide spectral apertures and correspondingly high light transmission coefficients and illuminating said object with light of discontinuous spectral character containing lines or bands of light of wave lengths corresponding to the central portions of the spectral apertures of each of said filters and being substantially free from lines or bands of light of wave lengths corresponding to the outer portions of the spectral apertures of said filter exposing the film to the light passing through said filters and thereafter developing the film.

1,945,769
METHOD OF SEALING OFF
John D. Brumley, Newark, N. J., assignor to Westinghouse Lamp Company, a corporation of Pennsylvania
Application February 14, 1930. Serial No. 428,311
5 Claims. (Cl. 176—2)



1. The method of sealing an evacuated vitreous vessel having a tubular extension which comprises heating to render plastic a portion of said extension compressing the extended portion to close the passage therethrough and shearing said extension beyond the depression while said portion is still plastic.

1,945,770
BALANCE INDICATOR FOR WEIGHING SCALES
James L. Campbell, Lansing, Mich.
Application November 10, 1931
Serial No. 574,186
4 Claims. (Cl. 200—8)

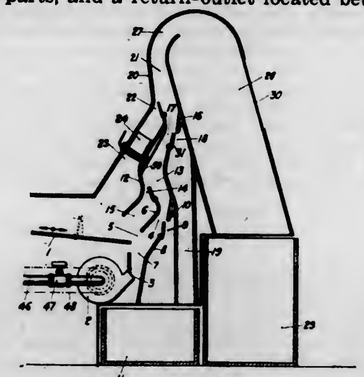


1. In combination, a supporting member of non-conducting material having an arcuate upper face, spaced contacts in said face, a bell crank, a contact member connected with the upper end of said bell crank and engaging the said face, means for pivotally supporting the bell crank below the supporting member, a weight adjustably connected to the lower arm of the bell crank, a projection on the weight, and an actuating member having a part thereon engaging the projection for oscillating the bell crank.

1,945,771
DEVICE FOR THE SEPARATING OF STEM PARTS FROM A TOBACCO MASS
Ernst Ruben Dahlström, Alsten, and Carl Georg Bertil Bothelius, Stockholm, Sweden, assignors to Aktiebolaget Formator, Stockholm, Sweden, a joint-stock company of Sweden
Application November 20, 1931, Serial No. 576,384, and in Germany November 27, 1930
14 Claims. (Cl. 209—137)

1. A device for separating stem parts from a mass consisting of crushed tobacco leaves having a feeding device and an air-channel provided with a supply port for tobacco mass to be treated,

a discharge port for tobacco mass freed from stem parts, and a return-outlet located between

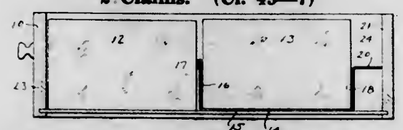


said supply port and said discharge port, said return-outlet communicating with the supply port.

1,945,772
PROCESS OF PREPARING COLORED PHOTOGRAPHIC PICTURES
Léon Josse Dassonville, Brussels, Belgium
No Drawing. Application June 11, 1931, Serial No. 543,750, and in Belgium July 16, 1930
17 Claims. (Cl. 95—2)

1. In a process of preparing a colored photographic positive, forming a silver image in a sensitized material, treating said material with an acid solution of an iron salt adapted to resensitize it, forming a second image in said material, developing said second image in one color by precipitating a colored salt of iron and then dyeing the first image in another color through the previously colored second image.

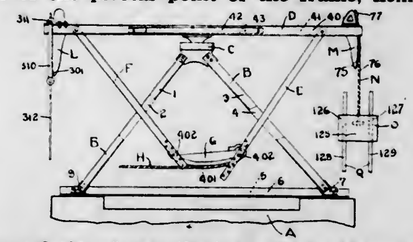
1,945,773
DRAWER PARTITION
Peter Dennerlein, Dayton, Ohio, assignor to The McCall Company, Dayton, Ohio, a corporation of New York
Application February 19, 1932, Serial No. 594,030
Renewed July 15, 1933
2 Claims. (Cl. 45—7)



1. A partition for use in a drawer to provide separate spaces lengthwise of the drawer, comprising a sheet metal member of a width substantially equal to that of the drawer, having an upright partitioning wall, a flat bottom which rests on the bottom of the drawer, a space defining portion spaced from the partitioning wall, and a spacing end extending out from the space defining portion to locate it with respect to the end of the drawer.

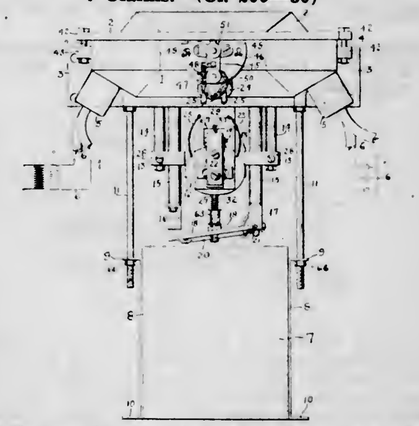
1,945,774
PUMP JACK
Bert G. Goble, Tulsa, Okla., assignor to W. A. Quigley
Application October 1, 1928. Serial No. 309,477
3 Claims. (Cl. 74—14)

1. An adjustable pump jack comprising a support, a bearing, means for revolubly mounting said bearing on said support, a frame, a journal rigid with said frame and seated in said bearing, a member adjustably fastened to said frame and having an arcuate surface formed thereon relative to the pivotal point of the frame, flexible



means fastened near the top end of said surface, counterweight means fastened to the other end of said flexible element whereby it contacts said arcuate surface.

1,945,775
REMOTE CONTROL INTERLOCKING OIL SWITCH
Lester W. Guin, Mishawaka, Ind., assignor to South Bend Current Controller Company, South Bend, Ind., a corporation of Indiana
Application June 6, 1930, Serial No. 459,444
Renewed September 8, 1933
7 Claims. (Cl. 200—50)

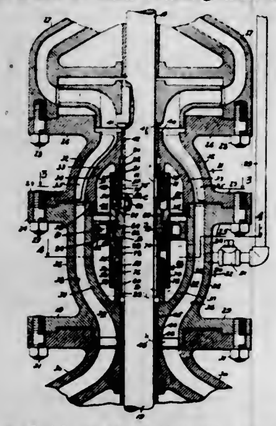


1. In remote control oil switches of the class described, a casing, an oil container suspended therefrom, a magnetically controlled switch supported by the casing while immersed in the oil, an external manually operated control for placing the switch under remote control for automatic response, and means for locking the switch in an "on" or "off" position independent of remote control impulses in the magnet.

1,945,776
SUBMERSIBLE BEARING
James M. Hait, Bell, Calif., assignor to Food Machinery Corporation, a corporation of Delaware
Application December 12, 1930
Serial No. 501,780
8 Claims. (Cl. 308—168)

1. For use with a drive shaft, a submersible bearing comprising: a casing having a shaft opening therethrough and an isolated chamber therein; a hub mounted upon said shaft within said casing; and an antifriction bearing unit mounted

on said hub and engaging said casing within said chamber, said chamber having fluid entrances on opposite sides of said bearing unit and said hub



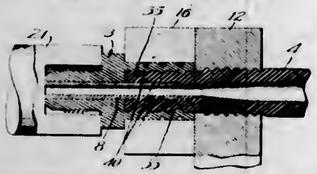
having a fluid passage therethrough for hydrostatically balancing the pressure of fluid entering through said shaft opening.

1,945,777

METHOD OF ASSEMBLY OF A HOSE END FITTING

Joseph R. Heidloff, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California

Application September 20, 1930
Serial No. 483,209
5 Claims. (Cl. 29—148.2)



1. The method of assembling a hose coupling comprising the insertion of one end of a hose in a coupling sleeve, inserting a nipple through said coupling sleeve into the bore of the hose, and contracting said sleeve to displace axially spaced portions of said sleeve to firmly embed said displaced portions in the wall of said hose.

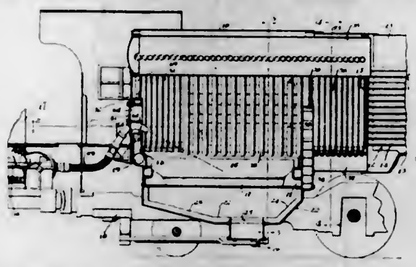
1,945,778

COMBINED STEAM ENGINE AND PULVERULENT FUEL FEEDING DEVICE

Andrew M. Hunt, San Francisco, Calif., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware

Application May 6, 1930. Serial No. 450,100
1 Claim. (Cl. 122—94)

In a locomotive, a firebox, a boiler barrel, a drum extending from the backwall of said locomotive to said boiler barrel over said firebox, said drum being in communication with said boiler barrel, a hollow mud ring, a plurality of water tubes extending upwardly and then laterally inwardly to said drum to form the sides of said firebox, a layer of refractory material engaging the outer surfaces of said tubes, hollow plates sloping inwardly and downwardly from said mud ring adjacent the sides of the firebox and spaced apart at their inner edges, said plates forming the bottom wall of the firebox, a hollow wall extending transversely across said firebox for dividing the same into a combustion and a heating chamber, a header between the lower portion of said wall and said boiler barrel providing communication therebetween, water tubes connected to said header and said drum, said tubes extending upwardly and curved outwardly to form the sides of said heating chamber, water tubes between the upper portion of said hollow transverse wall and said drum, refractory material closing the space between said last named tubes



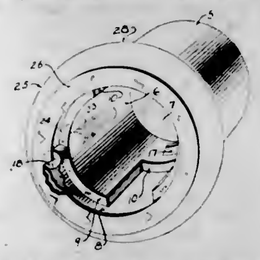
and forming with said hollow transverse wall the front wall of said combustion chamber, water tubes extending upwardly and inwardly and then upwardly connecting said hollow mud ring and drum, and a layer of refractory material on said last named tubes for forming with said pipes the top wall of said combustion chamber, said combustion chamber having substantially the same cross sectional area throughout, said top wall of the combustion chamber stopping short of the backhead of said firebox to form passageways for heated gases to said heating chamber.

1,945,779

LOCK

Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware

Application May 8, 1933. Serial No. 669,859
4 Claims. (Cl. 70—46)



1. In a lock structure of the character described, including a bored casing and a key controlled lock cylinder within the casing and removable therefrom when in a predetermined position with respect to the casing, means for preventing movement of the lock cylinder to said predetermined position comprising, a yieldable abutment carried by the casing adjacent the mouth of its bore, a finishing cap engaged over the outer end of the casing and having a part overlying the abutment to retain the same in position, and a second abutment carried by the lock cylinder and engageable with the casing carried abutment, said yieldable casing carried abutment being movable to enable passage of said abutments past each other.

1,945,780

HEEL CUSHION

Ross H. Johnson, Indianapolis, Ind.

Application May 31, 1930. Serial No. 458,086
1 Claim. (Cl. 36—37)



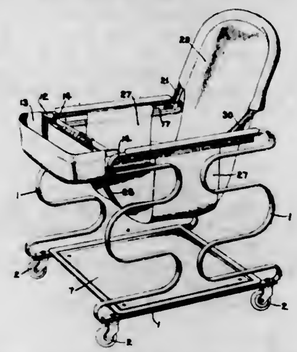
A heel rest adapted to cushion the heel of a foot in a shoe including, a cover member formed of flexible material, one end of said cover member being elliptically shaped, and the other having the form of a tongue with a thin skived transverse end, a cushion member of felt shorter than said cover member having a central opening secured to the under side of said cover member, the exposed portions of the under side of said cover member in the center of said cushion member and at the skived end being covered with adhesive to attach said cushion to the insole of a shoe when worn therein.

1,945,781

CHILD'S SEAT

Jacob Kersten, Kalamazoo, Mich.

Application April 7, 1933. Serial No. 664,877
6 Claims. (Cl. 155—17)



1. A seat comprising, a U-shaped seat frame, a U-shaped back frame, pivotal connections between the respective ends of said seat frame and back frame, one of said pivotal connections being detachable whereby a gap may be formed between the side frame and the back frame and a fabric seat body having loops by which it is connected to said seat frame and back frame, said loops being removable from said frame members by passing them through said gap.

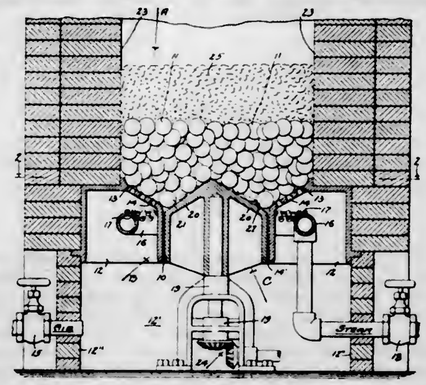
1,945,782

OSCILLATING GRATE

Leon B. Jones, San Francisco, Calif.

Application May 9, 1930. Serial No. 450,990
1 Claim. (Cl. 126—182)

A grate for furnaces comprising: a fixed perforated ring which slopes downwardly toward the center; an imperforate conical member rotatably mounted in said ring with its apex offset relative to the axis of rotation, said conical member having a flattened top face formed thereon; a body of refractory members loosely supported by said ring and said conical section; and means including tuyères positioned directly below the perforations in said ring for injecting steam through said perforations.

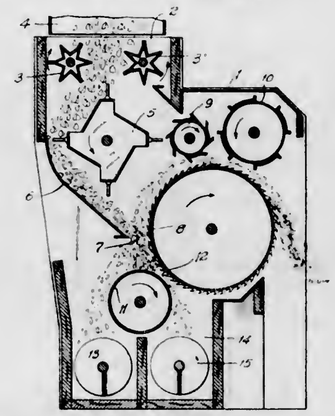


1,945,783

COTTON EXTRACTING AND CLEANING MACHINE

John E. Mitchell, Dallas, Tex.

Application February 18, 1931. Serial No. 516,628
4 Claims. (Cl. 19—36)



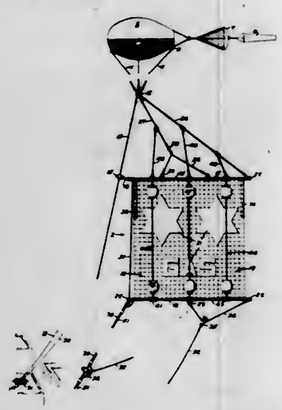
1. In a cotton extracting and cleaning machine, in combination with extracting mechanism including a saw cylinder adapted to remove the main body of cotton and a hull board member providing a discharge opening past the saw cylinder for the escape of small refuse, hulls, bolls, and small lock cotton, separate compartments located below said saw cylinder, a second hull-board member defining the size of a second opening past said saw cylinder, narrower than the first and leading into one of said compartments, and of a size to permit only the fine trash, sand, and the like in the product falling through said first opening, to pass through the same, said second hull-board member being so positioned that hulls and lock cotton contained in said product and knocked back by the saw cylinder may pass over the same and fall into the other of said compartments.

1,945,784
SUPPORT FOR CONCRETE DIVIDERS
Jesse M. Myer, University City, Mo.
Application August 29, 1930. Serial No. 478,634
2 Claims. (Cl. 94—8)



1. A device of the class described including a flat metallic body portion adapted to be driven in the ground, and a plurality of supporting elements integral with and extending upwardly from said body portion, one of which is pressed from the body portion and lies in a plane substantially parallel with the body portion and another supporting element and adapted to support a divider strip substantially in the plane of the body portion.

1,945,785
AERIAL ADVERTISING DEVICE
Malcolm A. Neal, San Francisco, Calif., assignor to Aerial Advertising Company, Inc., San Francisco, Calif., a corporation of Nevada
Application February 13, 1928, Serial No. 253,980
Renewed April 17, 1933
20 Claims. (Cl. 40—127)

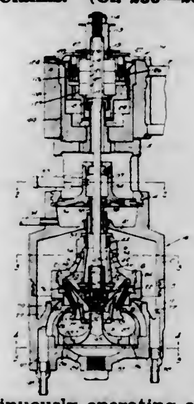


1. An advertising apparatus comprising an aerial vehicle having a lower portion colored to absorb light, a sign having a portion colored to reflect light, suspension rigging for said sign also colored to absorb light, and means for illuminating the light reflecting portions of said sign.

5. An advertising apparatus comprising an aerial vehicle, an anchor line for said vehicle, a sign suspended from said vehicle, and means connecting only the upper corner of said sign to said anchor line so that said sign will swing away from said anchor line under wind pressure and be disposed in substantially horizontal plane.

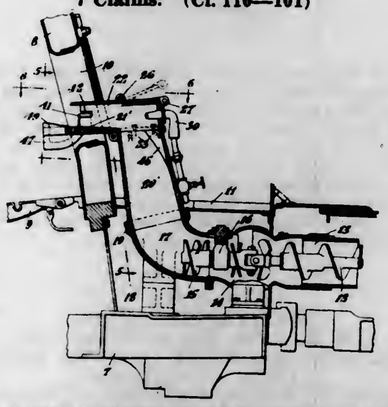
20. An advertising apparatus comprising an aerial vehicle, an anchor line for said vehicle, a sign suspended from said vehicle and connected to said anchor line, a bridle attached to said sign, and a guy slidably attached to said bridle.

1,945,786
CENTRIFUGAL APPARATUS
Albert Peltzer, Palo Alto, Calif., and Albert Peltzer, Jr., Chicago, Ill., assignors to Merco Centrifugal Separator Co. Ltd., San Francisco, Calif., a corporation of California
Application September 23, 1930
Serial No. 483,874
5 Claims. (Cl. 233—28)



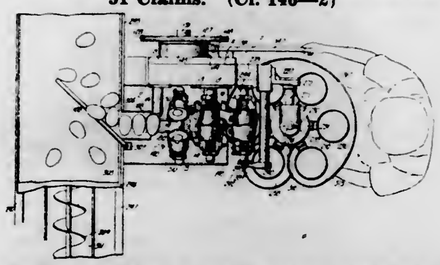
1. In a continuously operating centrifuge machine, a rotary bowl having provision for the discharge of lighter separated material and also having ports for the discharge of heavier separated material, means for continually introducing feed material into said bowl, and means for effecting a continuous return flow of a portion of the heavier discharge material back into the centrifuge bowl apart from the feed, said means comprising a closed circuit flow path characterized by the fact that ununiformity in the total discharge from said ports cause automatic compensating control of the heavier material being returned.

1,945,787
STOKER
William C. Peyton, New York, N. Y., assignor to Standard Stoker Company, Incorporated, a corporation of Delaware
Application September 13, 1927
Serial No. 219,210
7 Claims. (Cl. 110—101)



6. A fuel distributor member comprising a plate section over which fuel passes for delivery into the firebox, said distributor member on the under side and adjacent one end thereof being provided with one element of a pin and lug connection, and an arm extending from each side of said member and intermediate the ends thereof, said arm extending above the level of said plate section, the free end of said arm having a laterally inturned extension lug.

1,945,788
EGG BREAKING MACHINE
Frank Pilley, Kansas City, Mo., assignor, by mesne assignments, to Borden's Produce Company, Inc., New York, N. Y., a corporation of Delaware
Application May 4, 1929. Serial No. 360,396
51 Claims. (Cl. 146—2)



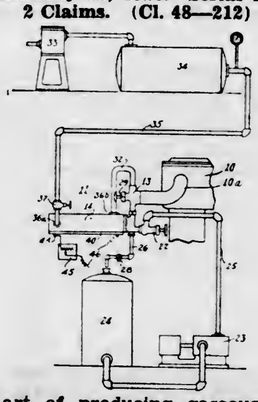
1. In a machine of the character described, a support, a rotatable member on the support, a pair of egg retaining members associated with the rotatable member, shell piercing fingers on the egg retaining members, means for closing the members on the egg, means for actuating the fingers operable upon rotation of the rotatable member, means for separating the retaining members operable upon rotation of the rotatable member to sever the shell to discharge the contents thereof, and means for removing the shells from the egg retaining members.

1,945,789
ADVERTISING DEVICE OR TOY
Morris A. Revis, Boston, Mass.
Application January 29, 1931. Serial No. 511,992
1 Claim. (Cl. 40—39)



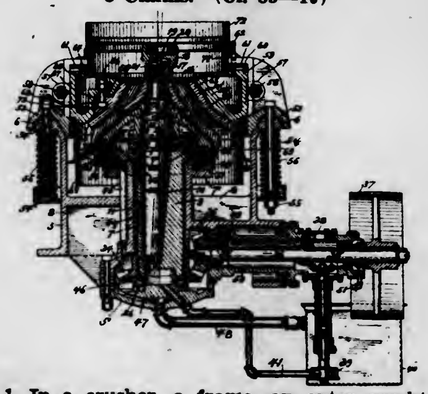
A device of the character described comprising supporting means, a panel, shaft means connected to said panel and rotatably mounted in said supporting means, said panel having two faces and pictures of an object in different and succeeding positions on each face, said shaft means being so positioned with respect to said panel that the axis of rotation is substantially the vertical center of said panel, said panel being of such thinness that its vertically extending edges are not visible to the human eye during rotation of said panel, the portions of said object which show a changed position from one picture to the other being in such a position that said axis of rotation passes approximately through the center thereof, and a governor of greater width than said panel having an inner surface adapted to serve as a reflector.

1,945,790
PROCESS FOR MAKING OIL GAS
Charles Rosier, New York, N. Y.
Application May 26, 1926. Serial No. 111,675
2 Claims. (Cl. 48—212)



2. The art of producing gaseous fuel from liquid and gaseous fuel constituents consisting in separably gasifying the liquid constituent in the presence of a catalyzing agency applying heat thereto, preheating the gaseous constituent by applying a different source of heat, regulating the intensities of both sources of heat for controlling the gasification, catalytic activity, and the preheating of the gaseous constituent to bring said constituents to a desired condition, and injecting the preheated constituent into the gasified constituent in proper proportion to form a gaseous, highly combustible product.

1,945,791
INTERCONE MILL
Harvey H. Rumpel, Milwaukee, Wis., assignor to Smith Engineering Works, Milwaukee, Wis., a corporation of Wisconsin
Application September 17, 1928
Serial No. 306,381
5 Claims. (Cl. 83—10)



1. In a crusher, a frame, an outer crushing member supported by said frame, an inner crush-

ing member cooperating with said outer member to form a crushing chamber, a rotary eccentric journaled in said frame concentrically of the central crusher axis and having a bore drivingly cooperable with said inner member to relatively gyrate said members, said eccentric bore having an axis which is inclined relative to the central axis of rotation of said eccentric, a thrust bearing supporting said inner member upon said eccentric, and another thrust bearing supporting said eccentric from said frame, said first mentioned bearing lying in a plane perpendicular to said inclined bore axis and the other being perpendicular to the central eccentric axis.

1,945,792
WINDOWED MERCHANDISE CONTAINER

Charles A. L. Stephens, Mount Vernon, N. Y., assignor to The Lorscheider-Schang Co., Inc., Rochester, N. Y., a corporation of New York
Application August 8, 1932. Serial No. 627,824
4 Claims. (Cl. 206—44)



1. In an individual sales package comprising an opaque, completely closed and sealed container of merchandise of a class as to which purchasers may be expected to be fastidious or at least unusually discriminative, and a removable, opaque cover fastened thereto, the combination, with a relatively large dispensing window in the container, closed by transparent material which may be readily destroyed to afford access to the contents, of a relatively small window in the cover in coincidence with a portion of the window of the container and also closed by transparent material.

1,945,793
WHEEL HUB ASSEMBLY

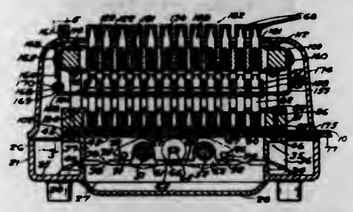
Andrew S. Van Halteren, East Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Original application February 26, 1931, Serial No. 518,306. Divided and this application September 19, 1932. Serial No. 633,771
3 Claims. (Cl. 301—9)



1. In a wheel, a hub having a radial flange, a demountable wheel body including a wood spoke spider with a central opening to accommodate the hub, a liner about the opening comprising an annular plate of substantially L-section with one leg overlying the front face of the spokes and the other leg forming an inner abutment for the spoke ends, the latter leg having on its contact face forwardly inclined serrations engaging the spoke ends, and means to clamp the liner and wood spoke spider to the hub flange.

1,945,794
PUNCHING MACHINE

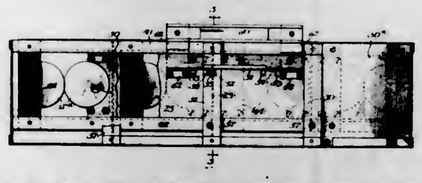
Casimir L. Werk, Jr., Cincinnati, Ohio
Application July 3, 1933. Serial No. 678,882
10 Claims. (Cl. 164—112)



1. In a punching machine, the combination of a base, a punch frame reciprocable on said base, normally retracted punches therein, a selector frame, normally retracted selector bars for said respective punches therein, keys for said selector bars, means for placing said selector bars in obstructing relations with said punches, shafts of cornered cross-section, journals releasably secured to said shafts, bearings in said base for said journals, levers having holes of cornered cross-section in which said respective shafts are located for causing said respective shafts and said levers thereon to rock together, pivot means connecting the proximate ends of said levers, pivot means connecting the outer ends of said levers and said punch frame for moving said punch frame, and operating means having connection with one of said shafts.

1,945,795
RADIO RECEIVING APPARATUS

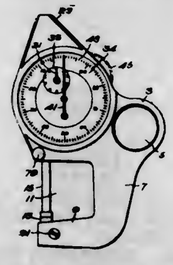
Chester M. Wilcox, Charlotte, Mich., assignor to General Apparatus Corporation, New York, N. Y., a corporation of New York
Application July 26, 1928. Serial No. 295,391
3 Claims. (Cl. 250—16)



1. In a radio receiving device having tuned resonant circuit units, the combination of a casing, partitions provided in said casing to provide a plurality of compartments in said casing, said casing and partitions being formed of material capable of shielding said units against electromagnetic and electro-static influences, a tuned resonant circuit unit located in each compartment, said units each having a condenser, each condenser having a stationary and a movable element, the movable element thereof being operable in its respective compartment, and carried by a plate forming one wall of the casing, and means for longitudinally moving the wall for tuning.

1,945,796
GAUGE

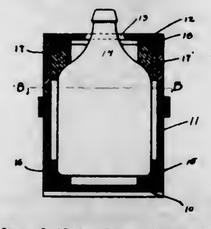
Warren Ames, Waltham, Mass.
Application March 19, 1930. Serial No. 437,084
11 Claims. (Cl. 33—147)



10. A gauge of the character described having, in combination, a casing, a contact feeler movably carried by said casing, indicator mechanism in said casing comprising a rack actuated by said contact feeler, a rack pinion meshing with said rack, an indicator hand moved by said rack pinion, a center pinion, means for driving said center pinion by said rack pinion at ten times the number of revolutions of the latter, an indicator hand moved by said center pinion, and means operative from the exterior of said casing comprising a gear member in mesh with said rack pinion for rotating the latter.

1,945,797
CARBOY CONTAINER

John J. Bach and James B. Flaws, North Woburn, Mass., assignors to Merrimac Chemical Co., Inc., Boston, Mass., a corporation of Massachusetts
Application November 13, 1930
Serial No. 495,352
7 Claims. (Cl. 217—52)

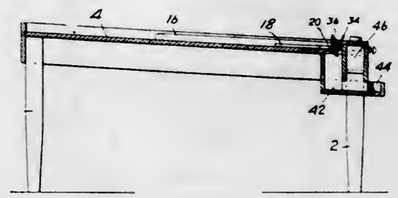


1. An article of the class described consisting of a multi-lateral crate, a carboy disposed therein, and resilient cushioning members fitting and engaging the bottom edge of the carboy, said cushioning members being positioned intermediate the crate and the carboy at points where the space between the lateral portions of the crate and the carboy are a minimum and being slidable in a direction parallel to the lateral portions of the crate.

1,945,798
GAME

Joseph A. Barry, Philadelphia, Pa.
Application June 23, 1932. Serial No. 618,891
6 Claims. (Cl. 273—121)

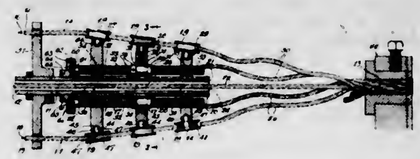
1. A game comprising a table, a plurality of pockets into which balls may selectively roll from the table, independent bottoms for the pockets, means corresponding to each pocket for selectively opening the bottom thereof to produce a selective discharge of a ball therefrom, and means



marking the pockets to correspond with playing cards.

1,945,799
ADJUSTABLE PREFORMING HEAD

Reginald Blamire, Kingston, Pa., assignor to American Cable Company, Inc., a corporation of Delaware
Application April 23, 1931. Serial No. 532,235
5 Claims. (Cl. 117—50)



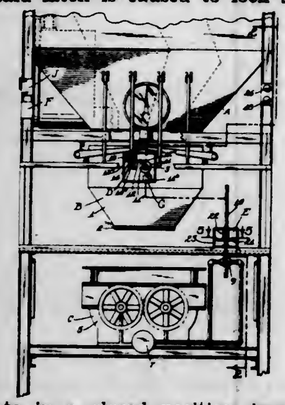
1. A preforming head of the type characterized by a set of three annular carriers mounted upon a shaft and each provided with a group of wire-bending devices arranged around the periphery of the carrier, the two outer carriers being adapted for adjustment along the axis of said shaft, and the intermediate carrier being adapted for adjustment rotatively with respect to said axis; said preforming head being further characterized by means to effect said coaxial adjustment of said outer carriers positively and symmetrically at the same time, by moving said outer carriers simultaneously in opposite directions toward or away from said intermediate carrier; said adjusting means comprising a plurality of rotatable lead-screws in threaded engagement with said carriers to be so adjusted, and means common to all of said lead-screws for operating them in unison to effect simultaneous adjustment longitudinally of the two outer carriers along the shaft.

1,945,800
CONTROL AND TIMING APPARATUS

Carl G. Bliss, Los Angeles, Calif., assignor to Standard Boiler and Steel Works, Los Angeles, Calif., a business trust
Application February 10, 1931. Serial No. 514,770
8 Claims. (Cl. 83—73)

1. In an apparatus of the class described, a mixer having a discharge gate, a feed means for supplying the mixer with materials to be mixed, said feed means having a feed control gate, a latch in connection with the feed control gate for locking the same in a closed position, a timing means for controlling the opening of the mixer gate and simultaneously unlatching the feed control gate, and an instrumentality actuated by

the mixer gate and connected with the latch whereby said latch is caused to lock said feed



control gate in a closed position immediately after the mixer gate is opened.

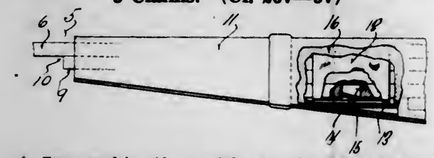
1,945,801

VEHICLE LEAF SPRING CONSTRUCTION

Stephen F. Briggs, Chenequa, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware

Application July 20, 1932. Serial No. 623,477

5 Claims. (Cl. 267—37)



4. In combination with a vehicle leaf spring comprising a plurality of successively shorter leaves with their staggered ends forming a series of steps along the bottom of the spring, a metal cover fitting the spring closely at its sides, top and bottom whereby the cover together with the steps along the bottom of the spring defines triangular spaces, a clip to hold the leaves of the spring against spreading, said clip comprising a band of relatively thin metal having its ends securely connected and encircling the spring with its connected ends disposed in one of said triangular spaces, so as to enable application of the cover to the spring with the cover fitting closely against the stepped bottom and without requiring special provision in the cover to accommodate said part of the clip, a fabric wrapping encircling the spring and the clip, the resiliency of the fabric wrapping accommodating the slight protrusion beyond the sides and top of the spring formed by the thickness of the clip so as to enable the cover to fit closely at the sides and top of the spring without special provision in the cover, and a resilient tang struck from the clip and automatically engageable in a recess in the spring upon movement of the clip onto the spring to hold the clip in its proper position.

1,945,802

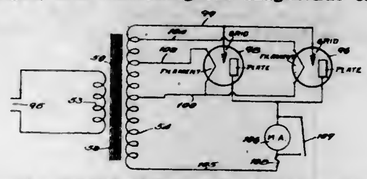
RADIO TUBE TESTER

James C. Daley, Chicago, Ill., assignor, by mesne assignments, to Jewell Electrical Instrument Company, a corporation of New Jersey

Application August 10, 1925. Serial No. 49,469

14 Claims. (Cl. 250—27)

1. The method of testing an audion tube which comprises energizing the plate and filament circuits from an alternating current source, serially impressing upon the grid different alternating voltages, and indicating the magnitude of plate



current established by each of the applied grid voltages.

1,945,803

CEMENT

Myron E. Delaney, Bloomfield, N. J., assignor to Halowax Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 6, 1929

Serial No. 344,920

2 Claims. (Cl. 87—17)

1. A cement comprising about equal parts by weight of a normally solid chlorinated naphthalene and ester gum and about 5 per cent of rubber latex.

1,945,804

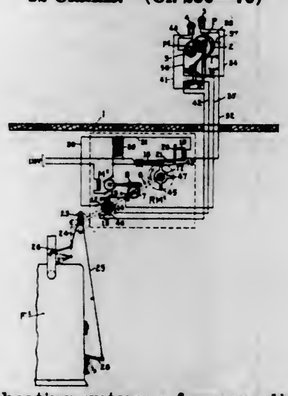
HEAT REGULATING SYSTEM

Oscar H. Dicke, Rochester, N. Y., assignor to Pioneer Heat Regulator Corporation, a corporation of New Jersey

Application September 19, 1929

Serial No. 393,704

32 Claims. (Cl. 236—76)



1. In a heating system; a furnace adjustable to cause it to give off a maximum, a medium or a small amount of heat; a regulating mechanism having three lead-in wires the first of which if energized will adjust said furnace to give off a small amount of heat, the second of which if energized will adjust the furnace to the medium heat position and the third of which if energized will adjust said furnace to the maximum heat position; a source of current; and a thermostat for connecting said source of current to one of said lead-in wires only comprising, a first thermal element which if it assumes one temperature position connects said source to said first wire, if it assumes another temperature position connects said source to a second thermal element, said second thermal element when assuming one temperature position engaging said second lead-in wire and when assuming another temperature position engaging said third lead-in wire, whereby said source may be connected to three different wires at three different temperatures without any frictional engagement.

1,945,805

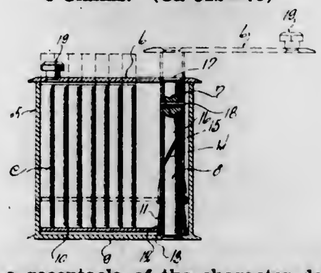
CIGAR, CIGARETTE, OR THE LIKE RECEPTACLE

John W. Fitz Gerald, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware

Application November 14, 1929

Serial No. 407,155

5 Claims. (Cl. 312—78)



2. In a receptacle of the character described, having an open top, a movable bottom in the receptacle, a cover for the open top of the receptacle, telescoped means mounting the cover and the movable bottom, opening of the cover producing relative rotation between said telescoped mounting means, and means effective upon relative rotation of said telescoped means for elevating the cover and movable bottom in unison.

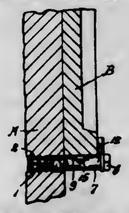
1,945,806

DISPLAY SUPPORT

George R. Flora, Marion, Ohio, assignor to The Arro Expansion Bolt Company, Marion, Ohio, a corporation

Application January 21, 1933. Serial No. 652,956

9 Claims. (Cl. 40—125)



9. In combination with an anchoring device including a split sleeve and a bolt, a member for receiving and supporting a portion of a display board or the like, which includes a body portion mounted on and supported by said bolt, surfaces integral with said body portion for receiving and embracing surfaces of the display board in at least two zones, said body portion and said bolt being relatively movable to obtain a maximum area of contact between the surfaces integral with the body portion and the surfaces of the display board with which said surfaces cooperate.

1,945,807

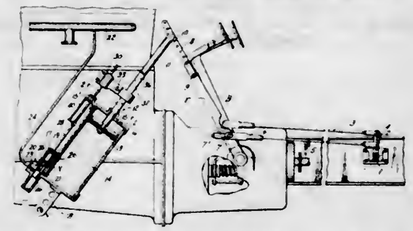
CLUTCH AND BRAKE CONTROL MECHANISM

Frederick G. Folberth and William M. Folberth, Cleveland, Ohio

Application August 12, 1931. Serial No. 556,624

15 Claims. (Cl. 192—13)

1. A control system for automotive vehicles, including brake operating connections, a clutch operating pedal, means for connecting said clutch pedal with said brake operating connection, a slip joint included in said connecting means, and fluid pressure operated means, controlled by said clutch operating pedal, for exerting a force tending to move said pedal to apply the



vehicle brakes when said pedal has been depressed an amount sufficient to disengage the clutch.

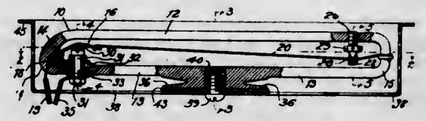
1,945,808

THERMOSTATIC SWITCH

William B. Griffith, Audubon, N. J., assignor to Star Sprinkler Corporation, Philadelphia, Pa., a corporation of New Jersey

Application November 3, 1932. Serial No. 640,923

6 Claims. (Cl. 200—137)



1. A thermostatic switch having in combination a resilient member normally assuming one position and adapted to be flexed from its normal position, switching means controlled by said member when the latter is in its normal and flexed positions, relatively movable thermal members operatively associated with said resilient member and arranged for holding the latter in the flexed position under normal temperatures and for permitting the resilient member to assume its normal position upon a sudden rise in temperature, and actuate the switching means, and a part formed of metal fusible at a predetermined temperature aranged for applying tension to one of said thermal members at temperatures below said predetermined temperature and for releasing the tension upon said last mentioned thermal member upon the fusing of said part.

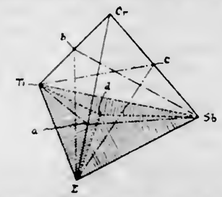
1,945,809

PIGMENT COMPOSITION

Carl J. Harbert, Cleveland Heights, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio

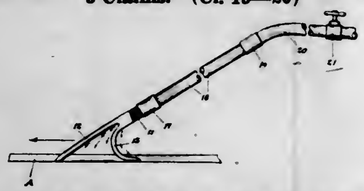
Application May 23, 1932. Serial No. 612,924

15 Claims. (Cl. 134—58)



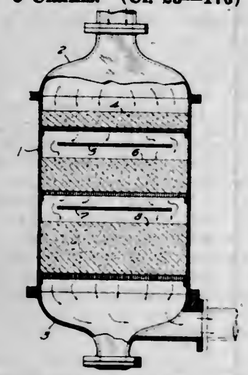
1. A pigment, comprising the reaction products of titanium, antimony, chromium, in oxygen-containing compound form, and a compound providing an element which is electro-positive to the aforementioned, the chromium not exceeding a ratio of one atom to each atom of titanium.

1,945,810
PAVEMENT CRACK CLEARING DEVICE
Harold F. Holtz, Lincoln, Nebr.
Application June 20, 1932. Serial No. 618,202
3 Claims. (Cl. 15—20)



1. A pavement crack clearing device including a forwardly and downwardly inclined prod and a rearwardly and downwardly inclined prod whereby said first named prod will be operative in dislodging the debris in a crack when said device is pushed forwardly and said second named prod will be operative when said device is pulled rearwardly, and means for discharging streams of air against the rear sides of both of said prods and into the pavement crack during the operative movements of said device.

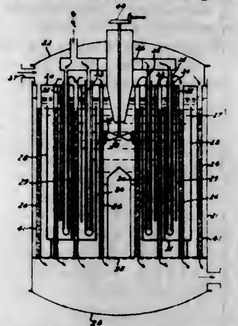
1,945,811
CONTACT SULPHURIC ACID PROCESS
Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware
Application February 20, 1930. Serial No. 430,129
3 Claims. (Cl. 23—176)



1. A method of catalytically oxidizing SO_2 to SO_3, which comprises passing a gaseous mixture containing SO_2 and oxygen over successive layers of a vanadium-containing contact mass having an overload capacity in excess of that of platinum contact masses, cooling the gases between successive layers, at least the first layer being of such thickness that the effective contact time of the gases passing therethrough is not sufficiently in excess of that required for the normal percentage conversion at normal operation to permit excessive heat evolution under overload and the latter layers are of sufficient thickness to permit commercially economical outputs per volume of catalyst.

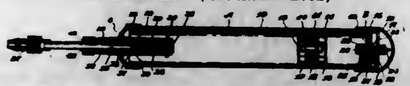
1,945,812
CATALYTIC APPARATUS
Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a corporation of Delaware
Application July 1, 1931. Serial No. 548,684
8 Claims. (Cl. 23—288)

1. Apparatus for carrying out exothermic catalytic vapor phase reactions comprising in combination a converter containing vertical catalyst tubes, a bath liquid surrounding said tubes and in direct heat exchange relation therewith and having a boiling point above the



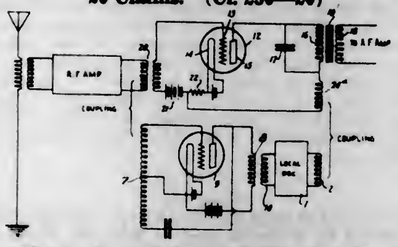
temperature of the reaction to be carried out, and vertical heat exchange elements adapted for the passage of a gaseous cooling medium immersed in said bath liquid.

1,945,813
COMBINATION HAND AND AIR GREASE GUN
August Johnson, Fargo, N. Dak., assignor to Jiffy Lubricator Company, Inc., Fargo, N. Dak., a corporation of North Dakota
Application April 2, 1932. Serial No. 602,762
13 Claims. (Cl. 221—47.4)



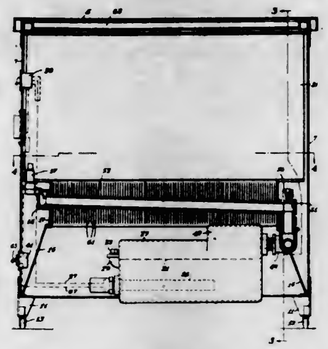
1. A hand and air grease gun including, a grease supply cylinder, a floating piston operable in said cylinder to force the grease out of said gun, a pneumatic compartment on one side of said piston, an ejecting nozzle extending from said grease compartment, a slidable tubular support for said nozzle, means for locking said tubular support against sliding movement, grease passageways leading to said tubular support, and a fixed rod adapted to extend into said tubular support to close the same when said tubular support is in innermost position.

1,945,814
SYNCHRONOUS FREQUENCY DETECTION SYSTEM
Louis W. Kolossy, Astoria, N. Y.
Application October 29, 1929. Serial No. 403,179
20 Claims. (Cl. 250—20)



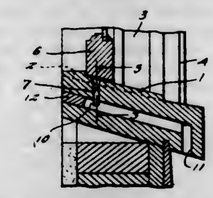
1. The method of demodulating signals of super-audible frequency modulated at lower frequencies which comprises impressing the signal to be demodulated upon the input circuit of a thermionic relay arranged to operate with a rectilinear relation between input voltage and output current and rendering said relay inoperative for a portion only of each cycle of the incoming signal.

1,945,815
ELECTRIC STEAM RADIATOR
John D. Landerman, Brookline, Mass., assignor to Electric Steam Heating Corporation, a corporation of Massachusetts
Application March 26, 1932. Serial No. 601,334
1 Claim. (Cl. 219—38)



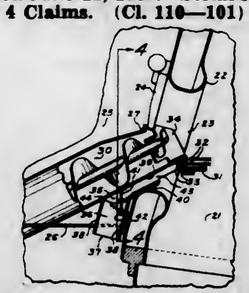
A portable steam generating heating radiator comprising a steam generating portion adapted to receive a removable electric heating unit, a steam circulating portion above said heater portion, having a gravity feed for return to said steam generating portion, and a plurality of air heating fins of variable extent per portion to the incline of the steam circulating portion to provide substantially uniform interchange of heat, irrespective of the inclination of the steam circulating system to provide said gravity feed.

1,945,816
DRAINAGE MEANS FOR WINDOW OR SIMILAR FRAMES
Willis E. Leigh, Elizabeth City, N. C.
Application September 15, 1932
Serial No. 633,350
1 Claim. (Cl. 20—70)



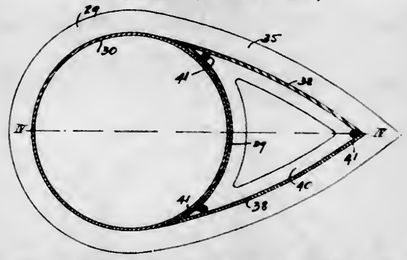
In a frame structure having a bottom sill, upright side members and a closure element disposed between the upright side members, means for preventing the passage of water between the closure element and the sill, consisting of a recess formed longitudinally in the top face of the sill and extending at its ends beyond said upright side members, said recess having a bottom inclining downwardly from each end to a central low point, a tubular passage leading from said central low point forwardly through the body of the sill to a point short of the front edge face thereof, and said sill having a recess cut upwardly from the under face adjacent said front edge face into which said tubular passage opens and further having a recess cut in its under face and having the last mentioned recess opening thereinto and at one side opening through the said front edge face of the sill.

1,945,817
MEANS FOR ADMITTING AIR TO A FIRE BOX
Nathan M. Lower, Baltimore, Md., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application June 11, 1931. Serial No. 543,555
4 Claims. (Cl. 110—101)



1. In combination, a furnace having an upright wall provided with a firing opening, a floor extending horizontally outwardly from said wall below the level of said opening, a stoker conduit mounted externally of the furnace and communicating with said opening, fuel distributing means associated with the forward end of said conduit, said conduit arranged with the lower marginal edge of the firing opening to provide a space therebetween, and a casing surrounding said space interposed between said conduit and the upright wall of the furnace and extending downwardly to said floor, said casing providing a passageway open only at its opposite ends, the one end opening adjacent the lower rearward end of said fuel distributing means and the other end opening to atmosphere below said floor, whereby the draft in the furnace will draw a current of air through said casing for cooling the forward end of said stoker conduit and said fuel distributing means.

1,945,818
INTERNAL COMBUSTION ENGINE
Harry L. McPherson and Joseph H. Weatherford, Memphis, Tenn.; said Weatherford assignor to said McPherson
Application December 17, 1928
Serial No. 326,608
8 Claims. (Cl. 123—171)



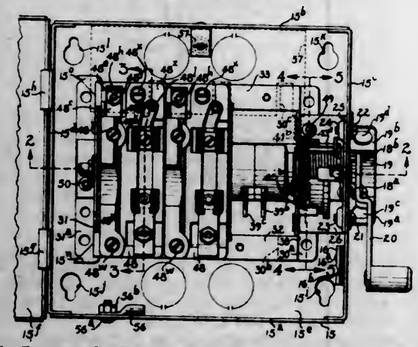
1. In an internal combustion engine, a cylinder having a plurality of fins extending therefrom, each having the periphery of their forward halves substantially cylindrical and of their rear halves substantially stream line and spacers disposed between the stream line portions of said fins, each spacer comprising a hollow member having the forward portion conforming closely to a portion of the exterior of said cylinder, and the rear portion substantially stream line paralleling but inward from said fin periphery.

1,945,819

ELECTRIC SWITCH OF THE ENCLOSED TYPE

Ralph A. Millermaster, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application September 28, 1932
Serial No. 635,184
20 Claims. (Cl. 200—50)



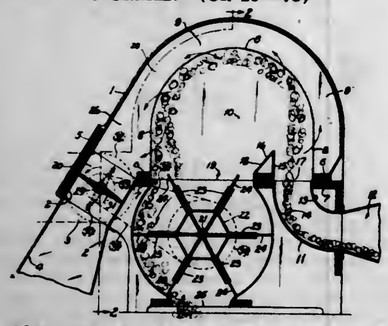
1. In an electric switch, in combination, a rotatable shaft of substantially rectangular cross section, a tubular insulating member of similar cross section surrounding said shaft, a bridging contactor comprising a punched sheet metal member bent to substantially U-shape to provide a pair of spaced parallel contact arms integrally connected with each other, said arms having alined rectangular openings formed therein to accommodate said insulating member whereby a positive driving connection between said shaft and said contactor is provided, a pair of molded insulating members slidable onto said shaft from opposite sides of said contactor, the abutting ends of said last-mentioned members being recessed to accommodate said arms and the integral connecting portion, said last-mentioned members being positively engaged with said tubular member, and associated means for insuring against substantial endwise displacement of said last-mentioned members and said shaft relatively to each other, said last-mentioned members being adapted to permit a slight degree of displacement of said contactor endwise of said shaft.

1,945,820

MACHINE FOR SEPARATING COTTON FROM AIR

John E. Mitchell, Dallas, Tex.

Application July 16, 1931. Serial No. 551,123
9 Claims. (Cl. 19—75)



1. The method of separating cotton from air which consists in moving a body of cotton into engagement with the entire surface of one side of a screen by suction exerted from the opposite side, and simultaneously interrupting the suction over defined areas of the screen less than its total surface in alternation.

1,945,821

WINDOW REGULATOR

Stanley W. Nicholson, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware

Application December 7, 1932. Serial No. 646,077
18 Claims. (Cl. 268—125)



2. Means to raise and lower a window pane, comprising a fixed vertical guide, a window pane support slidably mounted on said guide and supporting the window pane, pneumatic actuating means connected with said window pane support, a locking element carried by said window pane support and engageable with the guide to releasably secure the window pane in any position of adjustment, and common means to control the pneumatic actuating means and said locking element.

13. In a window regulator adapted to raise and lower a window pane, a window pane supporting member connected with the window pane to be movable therewith, locking means to releasably positively hold the window pane in adjusted position comprising, a pair of levers pivotally connected at a medial point, means connecting one end of one lever to the supporting member, a locking pin attached to the adjacent end of the other lever, a fixed member having a plurality of openings into which the locking pin is projectable, and a controlling member disposed between the opposite ends of the levers to spread the same upon turning of said controlling member and thereby withdraw the locking pin from an opening in which it is engaged.

1,945,822

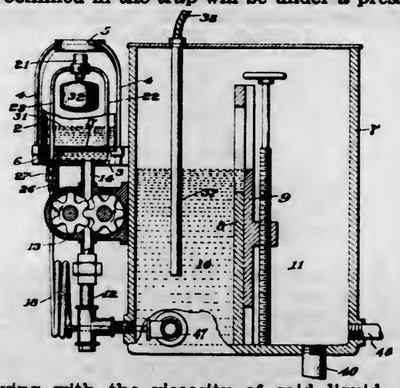
METHOD AND APPARATUS FOR MEASURING VISCOSITY

Walter A. Nivling, Newton, Mass., assignor to The Automatic Appliance Company, a corporation of Missouri

Application July 13, 1926, Serial No. 122,129
Renewed March 12, 1932
16 Claims. (Cl. 265—11)

1. In a viscosimeter, the combination of an air trap, means for forcing the liquid under test into said trap at a substantially constant rate, a conductor through which the liquid is discharged

from said trap, said conductor being adapted to impede the flow of liquid therethrough, whereby air confined in the trap will be under a pressure



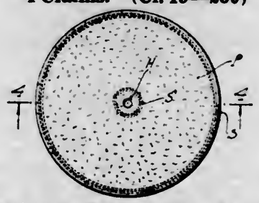
varying with the viscosity of said liquid, and means for indicating variations in the air pressure in said trap.

1,945,823

BUFFER PAD

William George Rasch and James A. Malcolm, Burlington, Wis., assignors to Burlington Blanket Company, Burlington, Wis., a corporation of Wisconsin

Application December 17, 1931
Serial No. 581,547
4 Claims. (Cl. 15—230)



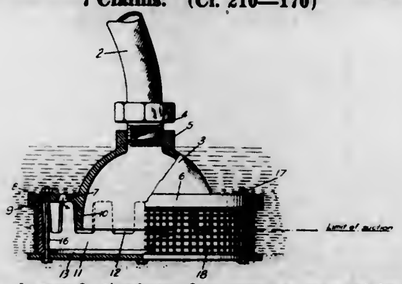
1. A polishing pad consisting of a plurality of layers of fibers needled to at least one intervening fabric stay, and lines of stitching reinforcing at least the periphery of the pad.

1,945,824

SAND STRAINER FOR PUMPS

Arthur C. Saxe, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application July 30, 1931. Serial No. 554,037
7 Claims. (Cl. 210—170)



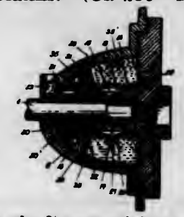
1. A sand strainer for pumps comprising a bell-shaped member of a comparatively greater diameter than the suction line to which it is connected, a laterally extending annular flange on the lower portion of said bell-shaped member, said flange being provided with a series of openings, an imperforate flat base-plate of a comparatively great area secured to said bell-shaped member, a cylindrical member disposed between the flange of said bell-shaped member and said base-plate, said cylindrical member being provided with openings in the upper portion thereof, but not in the lower portion thereof, a screen for covering said openings, said bell-shaped member being also provided with a downwardly depending cylindrical extension which overlies said apertures and is adapted to form a trap, the diameter of said extension being substantially greater than the suction line to which said strainer is connected.

1,945,825

SHAFT SEAL

Arthur C. Saxe, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application February 13, 1932. Serial No. 592,670
6 Claims. (Cl. 286—11)



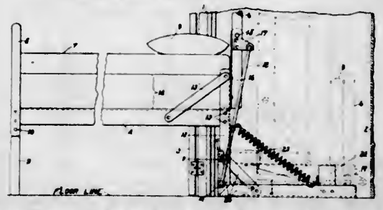
1. A seal for a shaft comprising a sleeve mounted on the shaft and adapted to rotate therewith, a bushing loosely mounted on said shaft and in contact with the outer end of said sleeve, a gasket loosely mounted on said shaft between said bushing and the wall of a housing in which said seal is disposed, means for anchoring said bushing and said gasket to the wall of the housing, said means comprising a tube adapted to extend through openings in said bushing and said gasket and into an opening in the wall of said housing, said tube being also adapted to convey lubricant to the contacting surfaces of said sleeve and said bushing.

1,945,826

RECESS TYPE WALL BED

Neil Sinclair, Oakland, Calif., assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif., a corporation of California

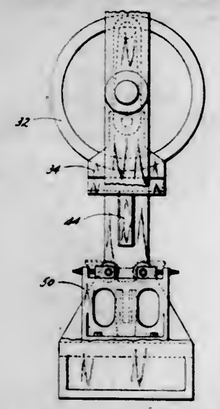
Application July 1, 1931. Serial No. 548,156
2 Claims. (Cl. 5—136)



1. A closet recess type of wall bed comprising a bed frame, short legs at the head end of the bed, spaced brackets secured to the floor of the recess, one at opposite sides of the bed provided with upwardly extending supports arranged to form an open pivotal engagement with the short legs of the bed insertable from above, a pair of

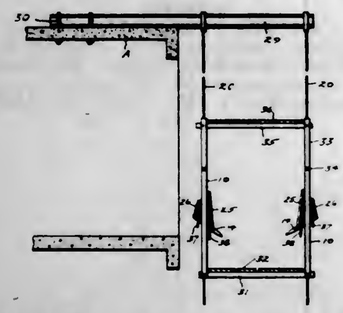
bed balancing springs on opposite side of each bracket extending from the bed at an angle downward and anchored to opposite sides respectively of the rearward portion of the bracket and transversely extending short yoke plates secured respectively to the bed and to the bracket to the opposite ends of which yoke plates the ends of the springs are secured.

1,945,827
METHOD OF FORMING FORGINGS
Charles Henry Smith, Cleveland, Ohio
Application July 29, 1931. Serial No. 553,785
1 Claim. (Cl. 29—148.2)



The method of forming tube ends for a cracking still which comprises forging a blank into a form having a hollow tubular body portion and having a pair of oppositely extending lateral ears on one end thereof and subsequently placing the thus forged blank into a set of forming dies and simultaneously rolling and bending the ears into substantial parallelism.

1,945,828
SCAFFOLD JACK
Edwin B. Snead, Dallas, Tex.
Application March 14, 1932. Serial No. 598,587
12 Claims. (Cl. 304—18)



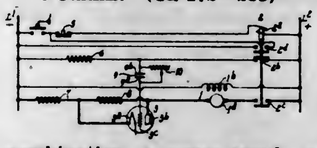
1. In a jack, a carrier, a pair of gripping members slidably mounted in the carrier, a lever pivoted in the carrier, grippers pivoted in the gripping members, and connections between the grippers and the lever pivoted to the lever on opposite sides of its pivot for actuating said grippers and sliding said members when said lever is swung.

1,945,829
SCREW HOLDER DEVICE
William J. Sofield, Berkeley, Calif.
Application January 18, 1932. Serial No. 587,239
4 Claims. (Cl. 145—50)



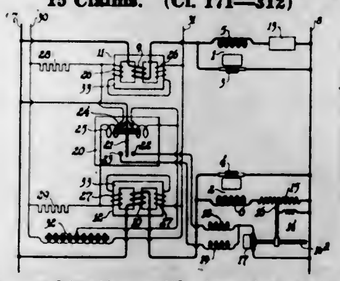
4. In a screw holder for mounting on the shank of a screwdriver, body elements telescopically engaged and cooperative to enclose said screwdriver shank, and holding jaws extending forwardly from the different said body elements in mutual opposition and arranged to have their free extremities simultaneously engaged in the bit-receiving slot of a screw head as an expansible bit.

1,945,830
MOTOR CONTROLLER
Carroll Stansbury, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application February 12, 1931. Serial No. 515,193
8 Claims. (Cl. 172—288)



1. In combination, a power supply, a motor, accelerating means for the motor, said means affording armature circuit commutation and including a gaseous electron tube having a grid, means to subject said grid to a transient potential under the influence of which said tube will be non-conducting for a given time interval and thereafter will afford full current flow instantly, and means for subjecting said grid to a further influence which is a function of the accelerating current.

1,945,831
CONTROL FOR DYNAMO-ELECTRIC MACHINES
Carroll Stansbury, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 20, 1933. Serial No. 666,993
15 Claims. (Cl. 171—312)



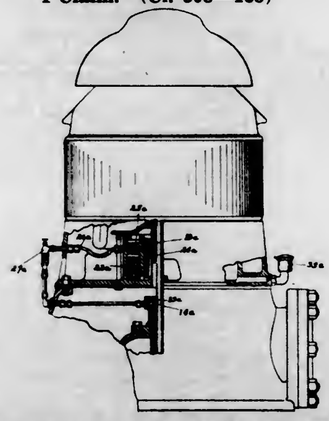
1. In combination with two translating circuits, means for maintaining a given ratio of an operating characteristic of said circuits, said means including a variable impedance connected to each of said circuits, and adapted to vary in response to the characteristic of the respective circuit while maintaining a given ratio of said impedances for a constant ratio of said characteristics, and means responsive to departure of the ratio of said impedances from said given ratio to regulate the characteristics of one of said circuits.

1,945,832
ILLUMINATING APPARATUS
Perry S. Strang, Chicago, Ill.
Application December 11, 1931
Serial No. 580,272
10 Claims. (Cl. 240—6)



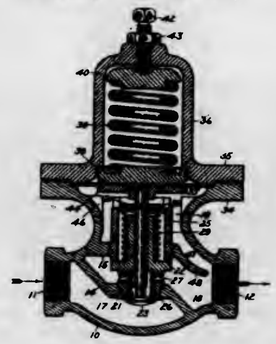
1. A device of the kind described comprising a trough having a longitudinal opening, an electric outlet unit housed in said trough, members on said unit that movably engage the inner and outer faces of the edges of said opening and interlock the unit in said trough, a concave reflector housed in said trough and abutting said outlet unit at one end, means for movably interlocking said reflector with the edges of said opening, and a wall movably mounted in said trough and abutting the opposite end of said reflector.

1,945,833
DEEP WELL TURBINE PUMP HEAD AND LUBRICATING SYSTEM THEREFOR
Raymond E. Swanson, Lawrenceburg, Ind., assignor to A. D. Cook, Inc., Lawrenceburg, Ind., a corporation of Indiana
Application November 26, 1929
Serial No. 409,940
1 Claim. (Cl. 308—168)



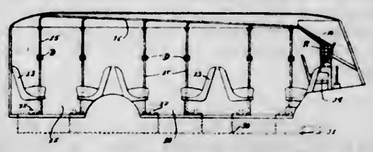
In combination in a deep well pump assembly including a line shaft having a line-shaft bearing, a lubricant reservoir located above said line-shaft bearing, a pump for elevating lubricant from said reservoir, an upwardly extending passage arranged to receive lubricant discharged from said pump and having a lubricant discharge opening near its top, a conduit connected to said passage at a point below said discharge opening and including a portion which extends generally downwardly in the direction of lubricant-flow, whereby any air entrapped in the lubricant entering said conduit can flow generally upwardly in the downwardly extending portion thereof and escape through said passage and discharge opening, a valve into which said conduit discharges, and means for conveying lubricant from said valve to said line-shaft bearing.

1,945,834
VALVE
Charles M. Terry, Decatur, Ill., assignor to A. W. Cash Company, Decatur, Ill., a corporation of Delaware
Application August 25, 1931. Serial No. 559,245
7 Claims. (Cl. 50—23)



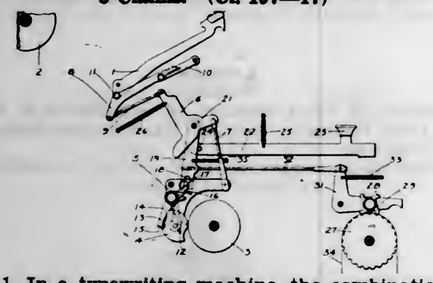
1. A pressure reducing valve comprising a hollow casing having an inlet and an outlet, a slidable valve arranged to control the flow between the inlet and the outlet, said casing having an opening, a flexible diaphragm closing the opening and connected to actuate the valve, a valve cage mounted within the casing and arranged to form a valve seat and a guideway for the valve, the casing having a portion shaped to form a support for the valve cage, and a sleeve screw threaded to the casing and serving to clamp the valve cage in place against the support, both the valve cage and the sleeve being removable through said opening after the diaphragm is removed.

1,945,835
FARE COLLECTION SYSTEM
Ernest H. Thompson, Hubbard Woods, Ill., assignor to Johnson Fare Box Co., Chicago, Ill., a corporation of New York
Application July 20, 1931. Serial No. 551,840
9 Claims. (Cl. 232—9)



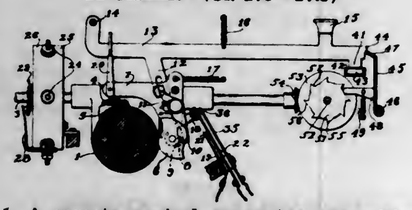
1. In a fare collection system for a passenger vehicle, the combination of a depository for coins at the entrance into the vehicle, a coin receiver at the driver's station, means affording a guide path for the passage of coins from said depository to said receiver, and means automatically controlled upon deposit of a coin in said depository for subjecting the coin to impact to impart momentum thereto for rapidly projecting the coin through said path to said receiver.

1,945,836
TYPEWRITING MACHINE
Russell G. Thompson, Rochester, N. Y., assignor to Electromatic Typewriters, Inc., Rochester, N. Y., a corporation of New York
Application May 23, 1931. Serial No. 539,549
3 Claims. (Cl. 197—17)



1. In a typewriting machine, the combination of a platen, a type bar movable into printing engagement therewith, a power driven roller, a cam movable into operative engagement with said roller for actuating said type bar, an arm for controlling the engagement of said cam with the power driven roller, a movable key lever having means engageable with said arm for actuating the same, and master sheet controlled devices operatively connected to said arm for actuating it independently of the key lever, the key lever being stationary when the master sheet control devices are functioning.

1,945,837
REMOTE CONTROL APPARATUS
Russell G. Thompson, Rochester, N. Y., assignor to Electromatic Typewriters, Inc., Rochester, N. Y., a corporation of New York
Application December 15, 1931
Serial No. 581,173
11 Claims. (Cl. 178—17.5)

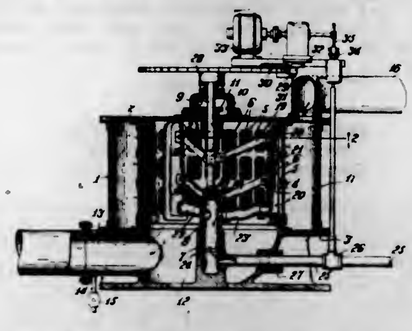


1. A remote control apparatus comprising a plurality of condensers, means for selectively charging said condensers, means for successively closing the circuits of said condensers for discharging the same, and means for limiting the operation of said means for charging said condensers to a maximum of an operation to charge one of said condensers during the time interval required for successively closing all of said condenser circuits.

1,945,838
METHOD OF MAKING GELS
William Vaughan, Mount Holly, N. J., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware
No Drawing. Application August 7, 1931
Serial No. 555,855
6 Claims. (Cl. 23—112)

1. A process of making gels from solid reagents which comprises intimately mixing the reagents in dry powder form, moistening the dry mixture with water, allowing the moist mixture to stand, then drying said mixture and washing it with water.

1,945,839
FILTERING APPARATUS
Edmund von Maltitz, Chicago, Ill.
Application April 25, 1932. Serial No. 607,341
4 Claims. (Cl. 210—152)



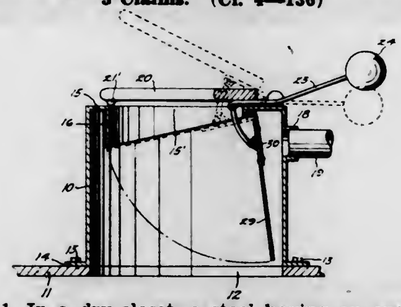
1. A filtration apparatus comprising a casing having an inlet port for fluid to be filtered, an outlet port for filtered fluid, a cylindrical filtering member disposed between said ports and having a port communicating with the intake port of the casing, a shaft disposed axially of the said cylinder and having a hollow end portion, a back wash member opposed to and in close contact with the said cylinder and engaged with said shaft and having an elongated channel opposed to said cylinder, a tubular conduit connecting said member with the hollow portion of the said shaft, a bearing in which the hollow portion of the said shaft is journalled, a discharge pipe connected with said bearing and communicating with said hollow portion of the shaft, said bearing being disposed for immersion in the fluid to be filtered disposed within the casing, and power actuated mechanism for intermittently rotating said shaft a distance substantially equal to the width of the said channel.

1,945,840
CALKED SOLE STRUCTURE
Daniel W. Wiggin, Yarmouth, Maine, assignor to The Abbott Company, Yarmouth, Maine, a corporation of Maine
Application October 22, 1931. Serial No. 570,314
4 Claims. (Cl. 36—59)



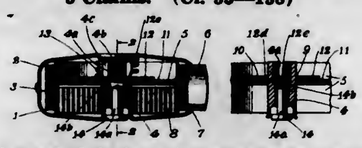
1. A calk assembly for shoe soles comprising a member to be inserted through an opening in the sole, an outwardly directed flange on said member for engagement with the outer face of the sole, means for fastening said member within the opening in the sole with the flange thereof engaging the sole, a calk having a screw threaded connection, and a flange on the calk to overlie the flange of the member when the calk is operatively connected with the member, one of said flanges having a projection and the other a recess to accommodate said projection to lock the calk against unscrewing from the member when the calk is operatively connected with the member, at least one of said flanges being yieldable to permit engagement of the projection with the recess by threading of the calk onto the member.

1,945,841
DRY CLOSET
Marney B. Willey, Dallas, Tex.
Application November 7, 1931. Serial No. 573,647
3 Claims. (Cl. 4—136)



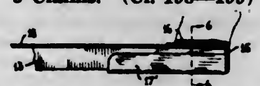
1. In a dry closet, a stool having an opening in its top, an apron depending in the stool from the opening thereof and having its lower edge terminating in a downwardly and forwardly inclined plane, a seat hinged above the opening of the stool, a flap hinged in and at the rear of the stool and engaging the said inclined edge of the apron to form a tight seal therewith, a pivoted connection between the seat and the flap for swinging the latter, and a counterbalancing weight attached to the seat so as to swing the latter.

1,945,842
TAPE MEASURE
Eugene J. Witchger, Saginaw, Mich., assignor to Lufkin Rule Co., Saginaw, Mich., a corporation of Michigan
Application April 21, 1932. Serial No. 606,675
3 Claims. (Cl. 33—138)



3. A pawl plate for a tape measure, comprising an inner ring having lugs projecting radially inward and shorter than the wall thickness of the drum post of the tape measure to which the pawl plate is adapted to be applied, an outer ring, and detent members connecting said inner and outer rings and spaced apart circularly.

1,945,843
CANVAS BELT SLAT PROTECTOR
Walter N. Woodruff, Farragut, Iowa
Application October 27, 1932. Serial No. 639,769
3 Claims. (Cl. 198—199)



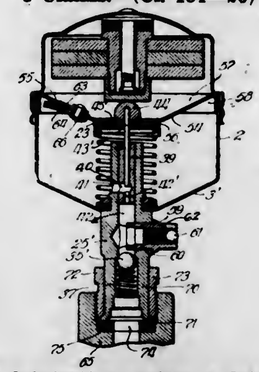
1. In a conveyor apparatus, the combination with a belt and a slat therefor, of a body portion extending transversely of the slat, a flange extending from the body portion over the end of the slat and terminating in a tang, said tang being in substantial alignment with the slat and body portion and disposed to lap the material of the belt, spacing means extending from the tang to abut the edge of the belt and maintain the same inwardly of the end of the slat, a rivet for securing the tang and body portion to the slat, and ferrules extending from the body portion at substantially right angles with respect thereto for gripping the sides of the slat, whereby upon peening the rivet the said flanges are adapted to prevent spreading or splitting of the slat.

1,945,844
GOLF CLUB
Leonard A. Young, Detroit, Mich.
Application May 16, 1932. Serial No. 611,563
2 Claims. (Cl. 273—77)



1. A golf club including a blade having a lower edge face, and a sheet metal member providing a wall secured at its forward edge to said lower edge of said blade and forming a rearward extension of the lower face of said edge, said wall being extended upwardly and forwardly to meet said blade at a distance above its lower edge.

1,945,845
LUBRICATING MEANS
Oscar U. Zerk, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a corporation of Delaware
Application November 21, 1929
Serial No. 408,715
5 Claims. (Cl. 184—26)

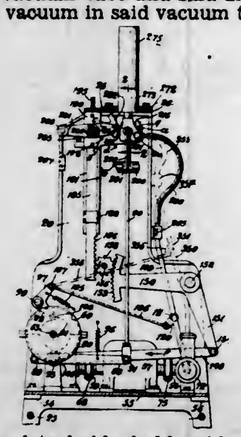


1. In a lubricating system, a lubricator container comprising a pair of oppositely disposed separably connected cap and casing cups, a weight unitarily reciprocably supported by said cap cup, a lubricant ejecting means unitarily secured to the other cup, and a supporting dispensing conduit for the casing cup, said weight engageable with said lubricant ejecting means to reciprocate same to force lubricant through the conduit upon abrupt longitudinal movements of the joined cups.

1,945,846
CUP DROPPING MACHINE
Charles F. Adams, New York, N. Y.
Application November 5, 1932. Serial No. 641,364
6 Claims. (Cl. 214—8.5)

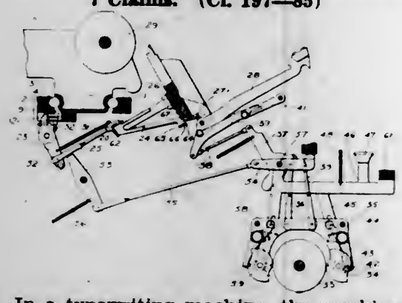
1. In a machine of the character described the combination of a suction head to hold objects one after the other, supported in the machine, an

axial port in said head, means to revolve said head, a vacuum tube supported in said head, means to produce a partial vacuum in said vacuum tube, a second port in the head interposed between the vacuum tube and said axial port to transmit the vacuum in said vacuum tube to said



axial port to detachably hold said objects one after the other on said head, means to turn said tube to connect it with said second port and means to turn the tube in the opposite direction to break said vacuum and release said objects one after the other from said head.

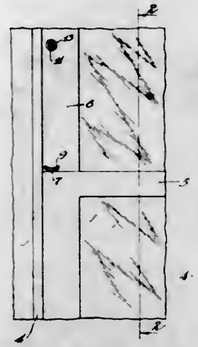
1,945,847
TYPEWRITING MACHINE
Chester W. Crumrine, Rochester, N. Y., assignor to Electromatic Typewriters, Inc., Rochester, N. Y., a corporation of New York
Application June 26, 1931. Serial No. 546,965
7 Claims. (Cl. 197—85)



1. In a typewriting machine, the combination of a frame, a carriage movable thereon for letter spacing, a rack on the carriage, a pair of pawls on the frame movable alternately into and out of engagement with said rack to stop the carriage at letter space distances, a key controlled lever, and an arm movable relatively to said lever in the direction of the movement of the carriage but actuated by said lever to operate said pawls.

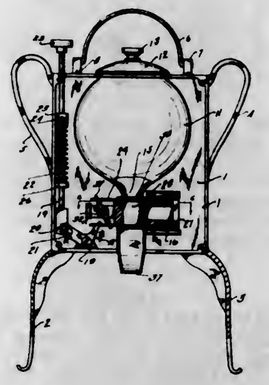
1,945,848
DEVICE FOR LIMITING OPENING MOVEMENT OF WINDOW SASHES
Clemence F. England, Minneapolis, Minn.
Application July 30, 1932. Serial No. 626,690
2 Claims. (Cl. 292—202)

1. A device for limiting the opening movement of window sashes comprising a stop member and a cooperating bar member at least one of said members being adapted to be mounted on a sliding sash and the other of said members being adapted to be mounted in position to be struck by its cooperating member as the sliding sash is opened, means for pivotally mounting said bar member for swinging movement out of the path



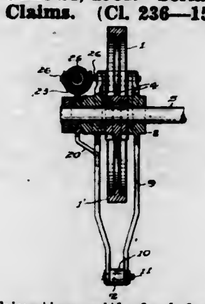
of said stop member, said bar member having a recessed surface normally opposing said stop member, said stop member being adapted to engage said recessed surface and cam said bar member to swing the same into aligned position with respect to said stop member when said bar member is not exactly aligned with said stop member.

1,945,849
AUTOMATIC MEASURING AND DISPENSING DEVICE
Michele Ferrandino, Corbett, Oreg.
Application March 2, 1932. Serial No. 596,249
1 Claim. (Cl. 221—104)



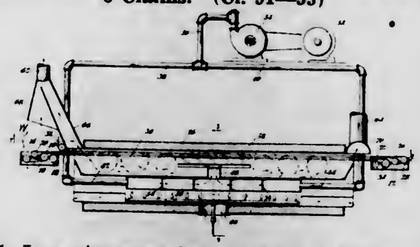
In a device of the class described, the combination of a leg supported frame, a bowl mounted within the frame and occupying a space from the top thereof to a point near the bottom thereof, a discharge outlet formed in the bottom of the bowl, a casing secured to the frame beneath the bowl, an apertured cylinder rotatably mounted within the frame, a discharge chute formed at the bottom of the casing, and means for rotating said cylinder from a receiving to a discharging position, said means comprising a shaft extending outwardly from one end of the cylinder, a pinion gear secured to the end of the shaft, a gear rack slidably mounted within the frame and coacting with said pinion gear.

1,945,850
FUEL FEED CONTROL MECHANISM
Thomas H. Filmer, Youngstown, Ohio
Application June 24, 1931. Serial No. 546,441
4 Claims. (Cl. 236—15)



1. The combination with fuel feed mechanism of the class described, comprising feed means, a feed wheel connected therewith, and means for positively turning the wheel intermittently in one direction through a limited arc, of a movable stop operable to control the length of the arc through which said wheel is turned, a rod, means providing a yielding connection between the rod and the stop when the rod is moved in one direction and a positive connection therebetween when the rod is moved in the opposite direction, and electrically controlled means operative to reciprocate the rod in correspondence with fluctuations in temperature at a given point to thereby control the fuel feeding rate by adjustment of the position of said stop.

1,945,851
WIRE COATING MACHINE
Orville F. Freeland, Muskegon, Mich., assignor to Anaconda Wire and Cable Company, New York, N. Y., a corporation of Delaware
Application November 8, 1930. Serial No. 494,268
6 Claims. (Cl. 91—55)



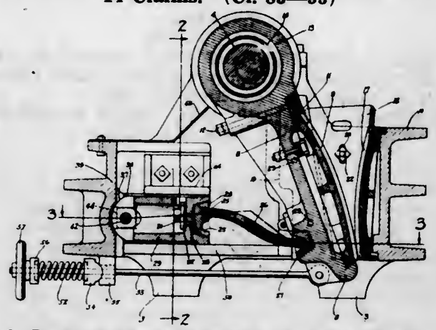
1. In a wire enameling machine, a drying oven comprising a substantially horizontal oven open at both ends, air exhaust ducts positioned adjacent each open end, means to force preheated air substantially free from products of combustion into the central portion of said oven and baffle means to distribute the said air through the oven and to the said air exhaust ducts.

1,945,852
DEVICE FOR PRODUCING SMOKE RINGS
Elkan Gosliner, San Francisco, Calif.
Application November 1, 1932. Serial No. 640,677
3 Claims. (Cl. 46—37)



1. A device for blowing smoke rings comprising, a cylinder having a restricted vent, a piston slidably mounted in the end of said cylinder opposite said vent, said piston having a flange of greater diameter than said cylinder.

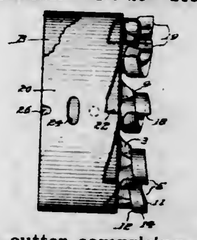
1,945,853
STONE CRUSHER
Carl A. Gustafson, Minneapolis, Minn., assignor to Pioneer Gravel Equipment Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application February 16, 1929. Serial No. 340,423
14 Claims. (Cl. 83—53)



1. In an apparatus of the class described, the combination of a frame, an eccentric shaft mounted thereon, a pitman connected at one end with said shaft, a jaw secured to said pitman and movable therewith, a jaw fixedly mounted in said frame, a thrust member slidably mounted in said frame, a strut operatively connecting the lower end of said pitman with said thrust member, oppositely arranged inclined faces on said thrust member, wedge members engaged with said inclined faces, a shaft traversing said wedge members and having portions thereof threaded, a nut loosely and non-rotatably mounted in each wedge member and received in threaded engagement with said shaft, and means for rotating said shaft, whereby said wedge members will be simultaneously moved in opposite directions to translate said thrust member and cause said movable jaw to be adjusted with respect to said fixed jaw.

3. A crusher comprising a frame, a plurality of jaws, one of said jaws being movable relatively to the other to crush materials therebetween, a driving shaft, self-aligning bearings mounting the shaft in the frame, an eccentric on the shaft, and a self-aligning bearing surrounding the eccentric and supporting the said movable jaw.

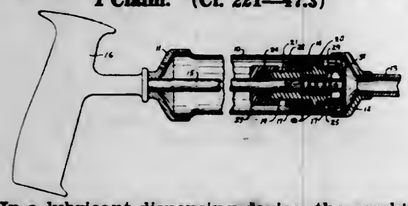
1,945,854
MILLING CUTTER
Peter P-G. Hall, Philadelphia, Pa.
Application February 17, 1930. Serial No. 428,941
5 Claims. (Cl. 29—105)



1. A milling cutter comprising a base having a plurality of annularly spaced bosses project-

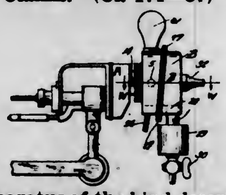
ing from its front face and a plurality of cutting elements respectively removably supported in the head adjacent said bosses, each of said elements having a substantially helicoidal surface engaging the adjacent boss and cooperative therewith to effect axial translation of the element relative to the base when the element is rotated a substantially congruent helicoidal surface axially spaced therefrom and a peripheral surface defined by the intersections of said helicoidal surfaces with the surface of a cylinder coaxial with the element.

1,945,855
GREASE GUN
Walter V. Hall, Cleveland, Ohio, assignor to The United States Air Compressor Company, Cleveland, Ohio, a corporation of Ohio
Application March 10, 1932. Serial No. 597,972
1 Claim. (Cl. 221—47.3)



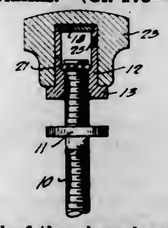
In a lubricant dispensing device, the combination with a lubricant chamber, of a piston slidable longitudinally therein, said piston comprising a member having a centrally arranged passageway extending therethrough, the passageway being enlarged adjacent the forward end of the chamber and having an intermediate shoulder, a rod extending through the passageway and terminating in a handle outside the member, the member having a pair of oppositely facing packing cups carried thereby, a nut for locking the cups against the shoulder, packing means embracing the rod at the rearward end of the member, a spring disposed within the enlarged portion of said member and also embracing the rod, a cup threaded to the member, and having a transversely extending slot therein, a key fixed to the rod adjacent the forward end thereof and insertable through the slot in the cup, the key being adapted to engage the spring when the rod is withdrawn into the cap, and inwardly disposed shoulders on the cap for holding the key in engagement with the cap under the force of said spring.

1,945,856
THERAPEUTIC APPLICATOR EMPLOYING VAPOR PASSED THROUGH A BEAM OF RADIANT ENERGY
Frank R. Hart and Sally W. Lasher, Pacific Grove, Calif.
Application December 23, 1931
Serial No. 582,830
2 Claims. (Cl. 174—87)



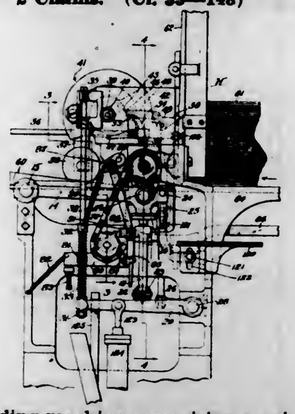
1. In an apparatus of the kind described having a source of radiant energy and a source of vapor, a receptacle in the radiant path, and a conduit to convey vapor from said source to said receptacle; a check valve in said conduit adapted to open outwardly from the vapor source and a manually operable bulbous element in communication with the conduit to create pressure to close said check valve and simultaneously expel said vapor from the receptacle via an applicatory instrument.

1,945,857
BINDING POST
George F. Harter, Springfield, Mass., assignor to The Standard Electric Time Company, Springfield, Mass., a corporation of Connecticut
Application October 10, 1931. Serial No. 568,085
8 Claims. (Cl. 173—259)



1. A terminal of the class described comprising a threaded post, a contact member threaded thereon, means providing a raceway between these members, and rotatable elements in the raceway to provide for relative rotary movement of the post and contact member, and abutment means carried by one of these members for engagement with said rotary elements to limit relative longitudinal movement of the post and contact members.

1,945,858
GRADING MACHINE
James W. Johnston, Manchester, N. H., assignor to North American Holding Corporation, Syracuse, N. Y., a corporation of New York
Application May 20, 1932. Serial No. 612,493
2 Claims. (Cl. 33—148)



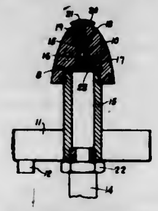
2. A grading machine comprising a pair of detecting rolls mounted one above the other, one roll being movable toward and from the other in response to variations in thickness of a blank passing between the rolls, bearings in which the ends of the movable roll are journaled mounted for vertical movement on the machine frame, a crossbar whose ends are positioned underneath the bearings, a pair of brackets on the crossbar, a pair of levers fulcrumed on the frame, a link pivotally connecting each lever with one of said brackets, and means yieldingly urging the levers in a direction to press the crossbar and movable roll toward the other roll.

1,945,859
METAL DOOR SADDLE
Martin Katz, Brooklyn, N. Y.
Application February 2, 1932. Serial No. 590,365
3 Claims. (Cl. 20—64)



1. In a door saddle, a horizontal longitudinal section, flanges downwardly projecting along the opposite side edges thereof and having bottom bearing faces disposed in alinement with each other, and interlocking dovetailed tongue and grooved members respectively formed along said opposite side flanges and extending transversely of the latter.

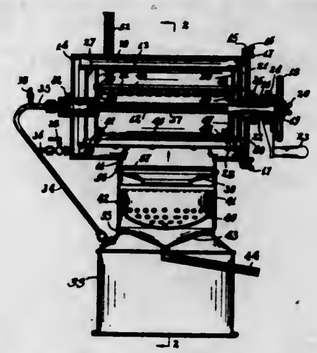
1,945,860
MEANS AND METHOD FOR RECOVERING EGG WHITES
James Asa Lafler, St. Louis, Mo.
Application September 19, 1930
Serial No. 483,013
6 Claims. (Cl. 146—2)



1. The herein described method of salvaging adhering egg materials from a broken egg shell which consists in disposing the shell upon a support therefor with the interior surface of the shell in substantially evenly spaced relation to the support, and while on said support, projecting a plurality of streams of air under pressure, at spaced locations adjacent one end of, and substantially within the shell, in causing the air to traverse substantially the entire inner surface of the broken shell and in wiping the egg material from the inside of the shell by causing movement of the egg material, under influence of said air streams, toward the margin of the broken shell.

1,945,861
BEEHIVE PRESS
Carl List, Elmont, N. Y.
Application February 3, 1933. Serial No. 654,980
4 Claims. (Cl. 6—12)

1. A beehive press, comprising a cylindrical casing with a bottom discharge spout, an externally threaded hollow spindle rotative within said casing, a perforated drum rotative on said spindle, means for rotating said drum, means for rotating said spindle, a perforated plate threadedly engaged upon said spindle and of a diameter snugly engaging within said drum, guides mounted within said drum limiting motion of the perforated plate to longitudinal movement only, a steam supply within the said cylindrical casing and also within said hollow means for breaking the honeycomb during the compressed action of said perforated plate in its motion back and forth, comprising a yoke mounted upon said spindle chains extending longitudinally within said drum and mounted on one of their ends upon said perforated disc and at their other ends upon said yoke and connected for unitary rotation with said drum, and

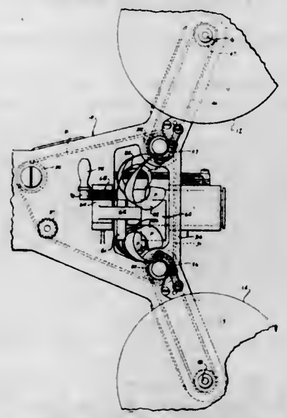


means for adjusting the radial positions of said chains.

1,945,862
MANUFACTURE OF PAPER PULP
Aimwell Gordon MacIntyre, Decatur, Ill., assignor to A. E. Staley Manufacturing Company, Decatur, Ill., a corporation of Delaware
No Drawing. Application August 7, 1930
Serial No. 473,770
10 Claims. (Cl. 92—9)

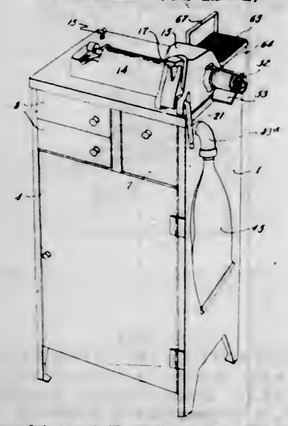
1. The step in the digestion of wood for the manufacture of wood pulp which comprises cooking wood in the presence of a dispersing colloid other than that contained in wood.

1,945,863
DUPLEX MOTION PICTURE PROJECTOR
George A. Mitchell, Los Angeles, Calif., assignor to Mitchell Camera Corporation, West Hollywood, Calif., a corporation of Delaware
Application July 21, 1930. Serial No. 469,567
23 Claims. (Cl. 88—17)



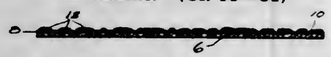
1. In a motion picture projector, the combination of a single film engaging film movement, film guiding means for a first film adapted to move said first film to and from a position of film engagement by said film movement, and film guiding means for a second film adapted to move said second film to and from a position of film engagement by said film movement.

1,945,864
HEEL LIFT MACHINE
Carl A. Olsen, Lynn, Mass., assignor to Toplifter, Inc., Lynn, Mass., a corporation of Massachusetts
Application December 17, 1931
Serial No. 581,663
7 Claims. (Cl. 12—1)



1. A machine of the class described, comprising a cutting wheel, a finishing wheel, a single shaft to which the wheels are connected, a casing supporting the shaft, a cabinet supporting the casing, a waste receptacle associated with the cabinet, a draft-inducing element upon said shaft intermediate said wheels, and an air duct with which said element is associated, said duct having branches to receive waste particles from both of said wheels to be deposited in said receptacle.

1,945,865
HALF-TONE SCREEN
Axel A. Pearson, Kansas City, Mo.
Application October 10, 1932. Serial No. 636,964
11 Claims. (Cl. 95—81)



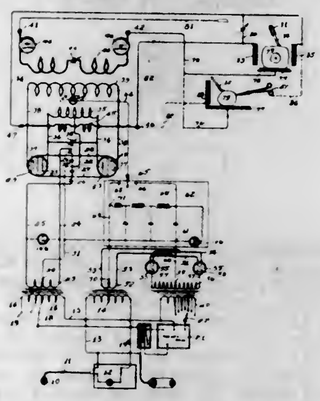
2. A half tone screen of the character described comprising a base; and a mass of irregularly positioned blotches of opaque liquid on one side thereof, said base consisting of superimposed layers of transparent material, the layer directly adjacent said blotches having an adhesive attraction for said blotches of less intensity than the inherent cohesive property of said blotches, whereby the thickness of said blotches at their edges is substantially equal to the thickness throughout the body thereof.

1,945,866
WEASAND AND METHOD FOR PREPARING THE SAME
William C. Ragals, Buenos Aires, Argentina, assignor to Berth. Levi & Co., Inc., New York, N. Y., a corporation of New York
Application June 4, 1932, Serial No. 615,330, and in Argentina March 18, 1932
4 Claims. (Cl. 17—45)

1. The method of preparing weasands which consists in subjecting the raw weasands to pneumatic stretching to approximately their natural limits and then to such mechanical stretching of the whole texture transversely of the weasands in opposite and parallel directions under exclusion of shrinking agents whereby a tautened unsupported condition will be set up throughout the whole of the sides of the weasand and a supported tension condition in the edge portions of the weasand, drying the stretched weasand, and maintaining said mechanical stretching stresses until the drying is completed.



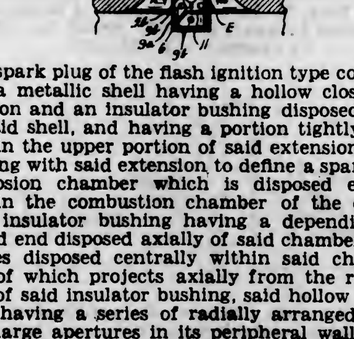
1,945,867
HIGH FREQUENCY OSCILLATORY APPARATUS FOR ELECTROTHERAPEUTIC AND STERILIZATION PURPOSES
Paul C. Rawls, Des Moines, Iowa, assignor to Technical Equipment Company, Des Moines, Iowa, a corporation of Iowa
Application April 27, 1932. Serial No. 607,775
5 Claims. (Cl. 174—177)



1. In a device of the class described, the combination of a driver circuit, means for producing high frequency currents of electricity of predetermined frequency in said circuit, a pair of output circuits inductively coupled to the first circuit, said output circuits each having means for including an anatomical member, a therapeutic instrument in one of said output circuits, means for tuning each of said output circuits independently of the other and to the frequency of said driver circuit, whereby diathermic treatments may be administered to a patient by one of said output circuits simultaneously or independently with a surgical operation administered by energy derived from the other output circuit.

1,945,868
MIXING APPARATUS
Arthur G. Reed, Swissvale, Pa., assignor, by mesne assignments, to Transit Mixers, Inc., San Francisco, Calif., a corporation of Nevada
Original application May 20, 1929, Serial No. 364,344. Divided and this application February 6, 1932. Serial No. 591,340
9 Claims. (Cl. 83—73)

1. Mixing apparatus comprising a rotatable mixer tiltably mounted on a frame, a charging boot pivotally supported from the mixer frame, a roller and flange connection between the boot and mixer on the outer surface of the mixer, and means connected to the boot and mixer

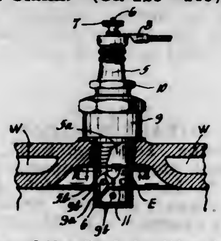


adapted to disconnect the boot from the mixer as the mixer is tilted.

1,945,869
BITUMINOUS PAINT AND METHOD OF MAKING THE SAME
Samuel W. Sparks, Bellevue, Pa., assignor of one-third to Robert T. Lytle and one-third to Lawrence W. Stofiel, both of Pittsburgh, Pa., and one-third to Price S. McPherson, Bellevue, Pa.
No Drawing. Application April 12, 1933
Serial No. 665,759
6 Claims. (Cl. 134—51)

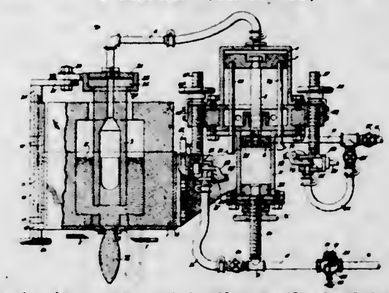
1. Bituminous paint comprising the reaction product of bituminous rock, nitric acid, sulphuric acid, and collodion.

1,945,870
SPARK PLUG—FLASH IGNITION TYPE
William J. Stephenson, Bingham Lake, Minn.
Application June 11, 1931. Serial No. 543,596
1 Claim. (Cl. 123—169)



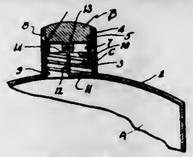
A spark plug of the flash ignition type comprising a metallic shell having a hollow closed extension and an insulator bushing disposed within said shell, and having a portion tightly fitted within the upper portion of said extension cooperating with said extension to define a spark plug explosion chamber which is disposed entirely within the combustion chamber of the engine, said insulator bushing having a depending reduced end disposed axially of said chamber, electrodes disposed centrally within said chamber, one of which projects axially from the reduced end of said insulator bushing, said hollow extension having a series of radially arranged flame discharge apertures in its peripheral wall, some of said apertures being disposed at the extreme, closed, upper end of said chamber and some being disposed at the extreme lower end of said chamber to produce a rapid venting of said chamber after an explosion and to enable flames to be discharged radially from said extension upon explosion within said chamber.

1,945,871
METHOD OF AND APPARATUS FOR FEEDING MOLTEN GLASS
Samuel G. Stuckey, St. Louis, Mo., assignor to Obear-Nester Glass Company, St. Louis, Mo., a corporation of Missouri
Application February 23, 1933. Serial No. 658,008
10 Claims. (Cl. 49—55)



4. An improvement in the method of feeding mold charges of molten glass which includes extruding molten glass downwardly through an orifice and shaping the extruded glass under the influence of cyclical changes in pressure in an air column above the orifice, comprising, as a phase of each cycle, introducing a uniform quantity of air into the column during each cycle at a uniform rate, except and with a sudden increase in the rate of introduction at a selected point in the phase and adjusting the shape of the extruded glass by adjusting the phase relationship of such selected point of increase in rate independently of the rate of introduction during the remaining portion of the phase and independently of the volume of introduction.

1,945,872
COLLAPSIBLE TUBE CLOSURE
Edward A. Tappe, San Bernardino, Calif.
Application November 6, 1931. Serial No. 573,330
1 Claim. (Cl. 221—60)

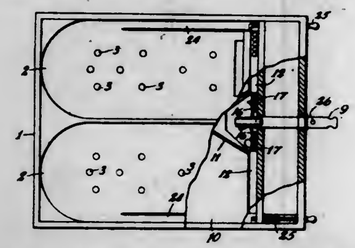


A device of the class described, comprising a dispensing tube including a neck having a delivery opening therethru and a valve seat encircling said opening, a shoulder on said neck within said delivery opening, a valve associated with said seat, and a helical spring disposed within said delivery opening, one end of said spring engaging said shoulder and the other end passing axially upward thru the helix formed by said helical spring and being connected to said valve to press the valve onto said seat.

1,945,873
GAME APPARATUS
Charles A. Tocc, Houston, and Glenn D. Fleak, Beaumont, Tex., assignors to E. D. Clem, Beaumont, Tex.
Application November 11, 1932
Serial No. 642,156
4 Claims. (Cl. 273—121)

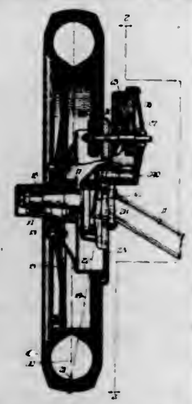
2. In a game apparatus; a game board having a plurality of openings therein adapted to

receive balls; a ball supporting board beneath said game board to support game balls in said openings; said supporting board having openings therein normally out of register with the openings in the game board; an outlet passageway for balls, under said boards; an inlet passageway above said outlet passageway and leading to the game board; an elevator adjacent the inlet passageway to deliver the balls from the outlet passageway to the inlet passageway; and an actuator operatively associated with said supporting board and elevator so that when said actu-



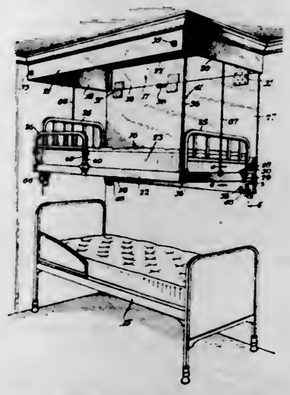
ator is moved in one direction said supporting board is so moved that the openings in said boards are aligned to permit the game balls to pass from said boards through said outlet passageway and onto said elevator; and when said actuator is moved in another direction said elevator moves said balls at one time to a position adjacent said inlet passageway; and ball shooting means to shoot said balls through said inlet passageway upon said game board; said elevator when in its upper position being inclined toward said inlet passageway to deliver said balls one at a time to said ball shooting means.

1,945,874
GYROSCOPIC VEHICLE STEERING STABILIZER
Ira A. Weaver, Springfield, Ill.
Application April 17, 1933. Serial No. 666,432
10 Claims. (Cl. 280—95)



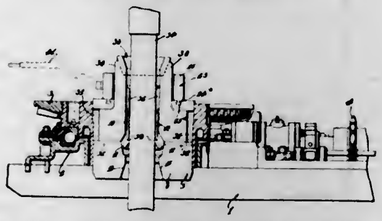
1. In a vehicle having a turnable steering road-wheel, means to turn said wheel to steer the vehicle, a gyroscope-wheel, means mounting said gyroscope-wheel to turn simultaneously with the steering turning of said road-wheel, and means to revolve said gyroscope-wheel in a direction whereby the tendency of the gyroscope-wheel to precess opposes the tendency of the steering road-wheel to precess.

1,945,875
FOLDING BERTH
Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware
Application August 13, 1931. Serial No. 556,805
1 Claim. (Cl. 5—10)



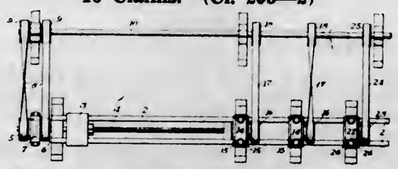
In a folding berth of the class described, the combination of a downwardly facing receptacle, a panel pivotally connected at one side to said receptacle and foldable from closed position to open position wherein the panel extends downwardly from said receptacle and substantially parallel to an adjacent wall, a bed bottom foldably secured to said panel and means for locking the free edge of said panel to said wall when the bed is extended, said means including a bracket and a locking member, the bracket being pivoted to said panel adjacent said free edge and adapted to extend beyond said free edge for engagement with the wall, the bracket being pivotally adjustable from said position to a position within the area of the panel to thereby position said locking bracket within the area of said receptacle when the panel is folded to closed position.

1,945,876
ROTARY MACHINE
Forrest J. Young, Torrance, Calif., assignor to The National Supply Company of Delaware, New York, N. Y., a corporation of Delaware
Application February 29, 1928. Serial No. 257,823
13 Claims. (Cl. 255—23)



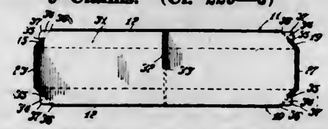
1. In a rotary machine, the combination of a base, a table rotatably supported on the base, and a master bushing assembly including a pair of half sections, slips mounted in said half sections, a cam ring including two halves rotatably mounted on said half sections, and cam rollers secured to said slips in position to ride in cam ways formed in said cam ring to raise and lower said slips.

1,945,877
METAL WORKING AND ARTICLE PRODUCED THEREBY
Frederick R. Bonte, Beaver Falls, Pa.
Application April 17, 1929. Serial No. 355,856
16 Claims. (Cl. 205—2)



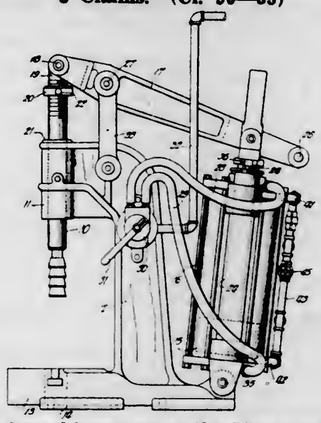
1. The process of working metal as herein described which comprises the continuous formation of a helix on the surface of a hot, parallel-sided piece of metal while holding the piece of metal against the rotation and utilizing the threading action to impel the piece through a fixed reducing die and eliminating the helix in the reducing pass.

1,945,878
SHIPPING PACKAGE
Rene J. Breton, Fresno, Calif.
Application October 12, 1932. Serial No. 637,441
9 Claims. (Cl. 229—6)



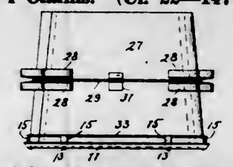
5. In combination with a shipping package composed of a top member and a bottom member, the side walls of the members being provided with slots; locking means having a contour substantially like the inner cross-sectional contour of the package and provided at its ends with extensions adapted to pass through said slots, each extension on one of the sides having a shoulder adapted to form locking engagement with the side wall of a package member.

1,945,879
BROACHING PRESS
Walter D. Burger, Forest Park, Ill., assignor to Hannifin Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application June 22, 1929. Serial No. 372,995
3 Claims. (Cl. 90—33)



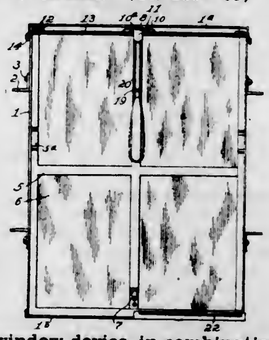
1. A broaching press or the like comprising in combination, a broach holder, pneumatically actuated means including a cylinder and piston for actuating said holder, a lever for transmitting power from said pneumatically actuated means to said holder, means including a yoke for pivotally connecting said pneumatically actuated means with said lever, a stationary supporting frame including means constraining said holder to travel in a straight line, hydraulic braking means including a piston and a cylinder connected with said yoke, means for permitting the hydraulic fluid to pass from one side to the other of said hydraulic piston, means for controlling the passage of said fluid during the power stroke of said head, said controlling means being constructed and arranged to permit a free passage of the fluid in the opposite direction to permit a rapid return of said head, means for pivoting said pneumatically actuated means to said supporting frame so that the former is free to follow the movement of said lever, a control valve for said pneumatically actuated means carried on said stationary frame, and flexible conduits extending from said control valve to said pneumatically actuated means for conducting the pneumatic fluid, whereby said pneumatically actuated means is free to move independently of said control valve.

1,945,880
HOT TOP
Walter M. Charman, Cleveland Heights, Ohio
Application April 13, 1931. Serial No. 529,611
4 Claims. (Cl. 22—147)



1. In a hot top, a non-metallic side wall portion, a metallic wiper strip extending outwardly from the lower end of the side wall portion throughout its perimeter, and means carried by said strip adapted to grip said side wall portion when the wiper strip is pushed into place thereon.

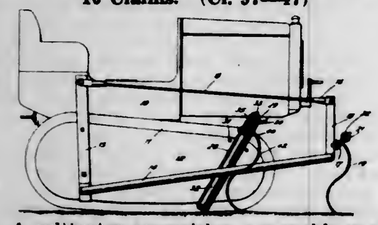
1,945,881
WINDOW DEVICE
Joseph B. Clay and Walter O. Wille, Cedar Falls, Iowa, assignors to Clay Equipment Corporation, Cedar Falls, Iowa
Application February 26, 1932. Serial No. 595,274
2 Claims. (Cl. 189—69)



1. In a window device, in combination, an open window frame including side wings, a sash mounted swingably in said frame between the wings, and a rock-shaft mounted upon an end

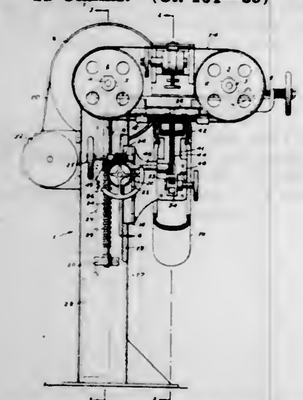
of the sash to extend at its ends across the wings and having terminals spirally shaped in open loops to be unengaged in one position with the wings, and in other adjusted positions to be frictionally engaged with the wings to releasably latch the sash to the wings.

1,945,882
CULTIVATOR ATTACHMENT FOR TRACTORS
Edgar V. Collins, Ames, Iowa
Application February 8, 1932. Serial No. 591,575
10 Claims. (Cl. 97—47)



1. A cultivator comprising a movable supporting frame, a pair of horizontally arranged and alined shank supporting bars arranged transversely of the movement of said support, a series of cultivator shanks fixed to and depending from each bar, a vertically arranged rock arm on each bar, a pair of rearwardly extending links pivoted to each rock arm having their rear ends pivoted near the rear end of said movable support, an upwardly and forwardly extending pivot member carried by the central portion of each bar, and a connecting bar having its ends supported by the last pivot members.

1,945,883
TIRE TREAD SPLITTING APPARATUS
George F. Connelly, San Francisco, Calif.
Application April 12, 1933. Serial No. 665,775
11 Claims. (Cl. 164—35)



1. An apparatus to cut the curved tread from a full circle tire consisting of a driven roller to be inserted within the tire and to support the tire in hanging position thereon; a driven roller to contact the outer tread surface of the tire, the axes of said driven rollers being parallel on the horizontal plane and in alignment on the vertical plane; means to move the roller on which the tire is supported into contact with the other roller to thereby flatten the tread portion of the tire; a band knife having the cutting edge thereof disposed on a horizontal plane between the rollers; means to advance said knife into engagement with the tread surface of the tire confined between the rollers; and means to drive the band knife and rollers in unison.

1,945,884
MANUFACTURE OF METAL COATED SHEETS
Willard O. Cook, Oscar O. Miller, and Joshua C. Whetzel, Pittsburgh, Pa., assignors to American Sheet and Tin Plate Company, a corporation of New Jersey
No Drawing. Application December 12, 1930
Serial No. 502,000
11 Claims. (Cl. 91—70.2)

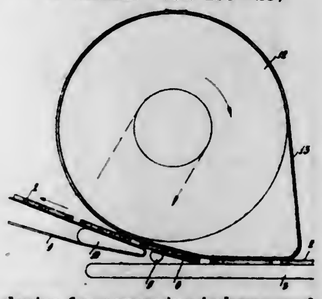
1. In the hot coating of metal sheets with other metals, the step of discharging the coated sheets into the atmosphere with the coating metal on the sheets at such a temperature above the freezing point of said coating metal that the sheets so produced will have no discoloring film visible in ordinary white light to the naked eye and the amount of invisible film is reduced to such a minimum that they may be given several eight to ten minute treatments in an oven at from 10° F. to 75° F. below the melting point of the coating metal without causing a growth of the film sufficiently to be objectional from the standpoint of appearance or soldering.

1,945,885
DEVICE FOR OPENING CONTAINERS
Henry Saulnier Darlington, Media, Pa., assignor to A. H. Wirz, Inc., Chester, Pa., a corporation of Pennsylvania
Application October 22, 1930. Serial No. 490,445
18 Claims. (Cl. 221—60)



1. A flexible walled container adapted to be closed by convergence of the walls and a wall spreader within the container adapted to be drawn from the container to separate the walls.

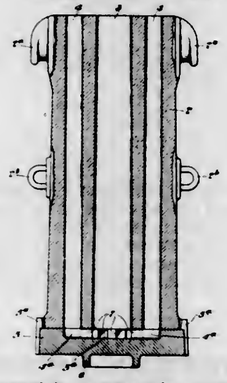
1,945,886
CONVEYING DEVICE FOR USE IN BAKERIES
Hendrik Pieter den Boer, Dordrecht, Netherlands, assignor to Naamlooze Vennotschap: Bakovenbouw, voorheen H. P. den Boer, Dordrecht, Netherlands, a corporation of the Netherlands
Application August 5, 1933, Serial No. 683,836, and in the Netherlands June 17, 1932
4 Claims. (Cl. 198—25)



1. A device for conveying bakery products over a stationary surface comprising an endless belt

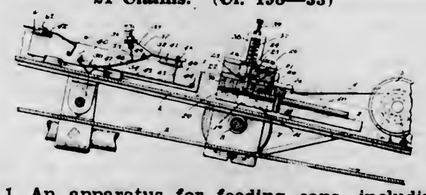
arranged on a roller which is placed above the said stationary surface, the said belt being allowed sufficient slackness so as to rest on top of the bakery products to be conveyed and to push the same along with it when the said belt is actuated by the rotation of the roller.

1,945,887
APPARATUS FOR CASTING BILLETS
Flint C. Elder, Cleveland Heights, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 31, 1932
Serial No. 649,717
1 Claim. (Cl. 22—139)



A mold comprising a one-piece mold body having a central billet recess, a plurality of adjacent billet recesses, the volume of said central billet recess being an even multiple of the volume of said adjacent billet recesses, and a stool having gutters connecting said adjacent recesses with said central recess.

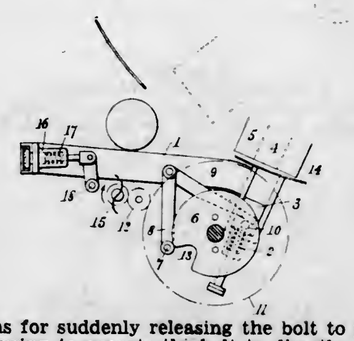
1,945,888
CAP FEEDING MECHANISM
Cecil Fields, Wheeling, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a corporation of West Virginia
Application May 11, 1931. Serial No. 536,607
21 Claims. (Cl. 198—33)



1. An apparatus for feeding caps, including a conveyer adapted to receive caps indiscriminately placed thereon, and means associated with the conveyer entering the caps which are in mouth-up position for capsizing such caps, said means permitting caps in mouth-down position to pass thereunder without being disturbed.

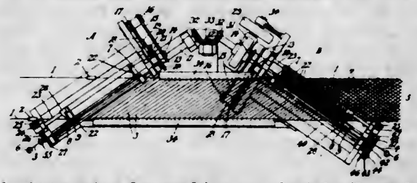
1,945,889
CROWN FEED TO BOTTLE CROWNING MACHINES
John Walter Flower, Wimborne, Dorset, England
Application May 29, 1930, Serial No. 457,347, and in Great Britain November 1, 1929
3 Claims. (Cl. 226—88.1)

1. In a rotary bottle crowning machine, a crowning head containing a mouth for the entry of bottle crowns, a device for feeding bottle crowns into said mouth and a mounting permitting movement of said crowning head with respect to the bottle crown feed device, said feed device comprising a bolt, a spring for influencing the bolt, means for normally holding the bolt withdrawn and the spring under tension, and



means for suddenly releasing the bolt to permit the spring to operate the bolt to directly engage and project a bottle crown from a chute into the mouth in the crowning head, the bolt being without influence on the crown other than the ejecting impact.

1,945,890
APPARATUS FOR THE PRODUCTION OF WELDED WIRE FABRIC
Joseph Gaskell, St. Helens, England, assignor to Pilkington Brothers Limited, Liverpool, England
Application September 9, 1931, Serial No. 561,967, and in Great Britain September 15, 1930
8 Claims. (Cl. 140—112)



1. Apparatus for making an electrically welded wire fabric with diamond meshes comprising means for successively drawing single inclined wires across selvedge wires, means for welding the said wires to the selvedge wires to form a partly finished fabric, means for successively drawing single oppositely inclined wires across the partly finished fabric and means for welding them to the wires of the partly finished fabric.

1,945,891
BRAKING MECHANISM
Albert Henry Godfrey Girling, Harlow, England
Application July 19, 1929, Serial No. 379,515, and in Great Britain July 23, 1928
11 Claims. (Cl. 188—204)

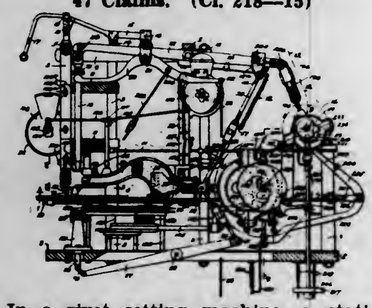
1. In connection with braking mechanism a control effort balancing device comprising a shaft, a single bearing member for the shaft permitting the shaft to rotate about its own axis and also swing in a plane about an axis perpendicular to its own axis, a primary lever attached substantially radially to the said shaft so as to be capable of imparting to the shaft a torque about the axis of the shaft, a pair of secondary levers attached substantially radially

to the shaft, and operating rods connected to the free ends of the secondary levers, the said



rods being parallel to the plane in which the shaft swings.

1,945,892
RIVET SETTING MACHINE
Jean Gobin, dit Daudé, Paris, France
Application April 13, 1931, Serial No. 529,814, and in France April 24, 1930
47 Claims. (Cl. 218—15)



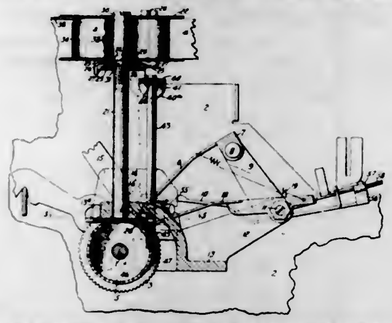
9. In a rivet setting machine, a stationary frame, a movable frame, a punching tool carried by said movable frame, a hammer reciprocable in said stationary frame, an anvil in line with said hammer and reciprocable in said stationary frame, means for moving said movable frame to bring said punching tool into and out of register with said hammer and anvil, whereby said punching tool may be operated by said hammer to perform its punching function, means for actuating said hammer for the punching operation, separate means for actuating said hammer and anvil for the setting operation, and one-way non-positive connections between said hammer and both said actuating means.

30. In an automatic rivet setting machine, punching tools, setting tools, a power shaft, means including a clutch for connecting said shaft with said tools, means for releasing said clutch, manually operated means for moving said releasing means into the inoperative position and thereby causing the engagement of said clutch, a cam rotated by said shaft through said clutch, and a cam follower adapted to automatically restore said releasing means into their operative position, after a predetermined rotation of said shaft.

42. In a rivet setting machine, punching means, setting means, actuating means therefor, a clutch between said punching means and the actuating means therefor, means controlled by said setting means toward the end of their return stroke for clutching in said punching means, means for automatically clutching out said punching means toward the end of their return stroke, and means for automatically feeding the work past said punching and setting means.

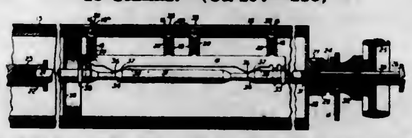
1,945,893
TYPEWRITING MACHINE
George G. Going, Glenbrook, Conn., assignor to Remington Typewriter Company, Ilion, N. Y., a corporation of New York
Application October 15, 1931. Serial No. 568,971
23 Claims. (Cl. 197—161)

1. The combination of ribbon spools, means for turning said ribbon spools comprising a longitudinally shiftable driving shaft, driving gears carried thereby, companion driven gears meshing with one or the other of said driving gears depending on the longitudinal position of said driving shaft thus determining the direction of the feed of the ribbon, and ribbon reversing means controlled by the ribbon and comprising loosely



supported reversing members, each mounted to be moved into and out of cooperation with the teeth of companion intermeshing gears and be carried along therewith between such intermeshing gears to separate them and thus effect a longitudinal shift of said shaft to reverse the direction of feed of the ribbon.

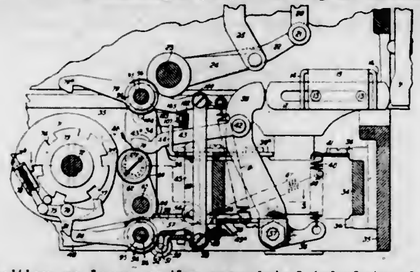
1,945,894
TYPEWRITING MACHINE
George G. Going, Glenbrook, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application November 27, 1931
Serial No. 577,596
13 Claims. (Cl. 197—136)



1. The combination of a cylindrical platen having openings therein, a plurality of headed clamping members spaced apart at different distances longitudinally of the platen and received in said openings, whereby either circular or rectangular cards or labels of different sizes may be effectively engaged at a plurality of points by said clamping members, a bar within the platen to which said clamping members are attached, an expansion spring located within the platen adjacent to each of said clamping members and bearing at one end against the inner surface of the platen and at the other end against said bar, and hand controlled means operable at will for controlling the movement of said bar radially of the platen to control the movement of said clamping members into and out of effective position.

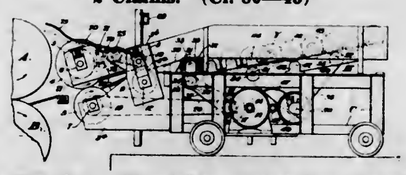
1,945,895
TYPEWRITING MACHINE
Frederick A. Hart, Stamford, Conn., assignor to Remington Typewriter Company, Ilion, N. Y., a corporation of New York
Application November 16, 1931
Serial No. 575,345
33 Claims. (Cl. 197—178)

1. The combination of tabulator stops, a motor, a cam driven thereby, tabulator keys, selective means controlled by said keys for selectively moving said stops to effective position by said cam and for maintaining a projected stop in effective



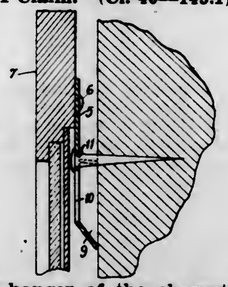
position so long as the associated tabulator key is held in its actuated position.

1,945,896
HOT MILL CATCHER
George Hartill, Sr., Gary, Ind.
Application November 12, 1931
Serial No. 574,614
2 Claims. (Cl. 80—43)



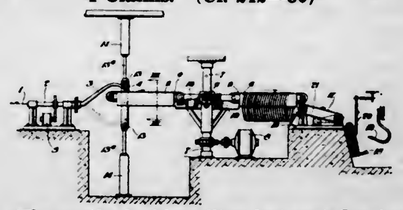
1. In a hot mill catcher, means for conveying the sheets or packs back over the mill, a pair of retarding bars pivotally mounted on said catcher at a point adjacent the mill, said bars being positioned below the line of travel of the sheets being conveyed back over the mill for the major portion of their length, and the forward or mill ends of said bars being projected upwardly into the path of travel of the sheets, said bars being adapted to be engaged by said sheets and rocked about their pivotal mounting so as to lift said sheets from said conveying means as said sheets approach the delivery point over the mill.

1,945,897
PICTURE HANGER
Arthur O. Haukedahl, Mason City, Iowa
Application July 1, 1933. Serial No. 678,679
1 Claim. (Cl. 40—145.1)



A picture hanger of the character described comprising a plate for attachment to the back side of a picture, said plate being provided with a circular extension provided with a flange extending laterally from its peripheral portion in a direction away from the picture side of the extension, said extension being provided with a key slot.

1,945,898
ROD HANDLING
Clifford F. Hood, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application October 17, 1932. Serial No. 638,263
4 Claims. (Cl. 242—80)



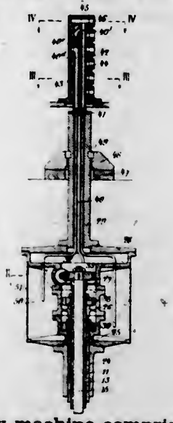
1. The method of handling hot metal rod consisting in coiling it on carriers in concentric layer form prior to forming it to the usual rough bundles.

1,945,899
FOLDING MECHANISM
Harold Howe, New York, N. Y., assignor to Howe Folding Furniture Inc., New York, N. Y.
Application November 12, 1931
Serial No. 574,509
13 Claims. (Cl. 45—11)



1. Folding mechanism comprising a supporting surface, two pairs of legs pivoted thereto, the legs of each pair being connected for common movement and said pairs being foldable toward and away from each other, a link pivoted at one end to a leg of one pair, a second link pivoted at one end to the adjacent leg of the other pair, and a common movable pivot means for the opposite ends of said links whereby movement of a leg of either pair will result in synchronous movement of both pairs.

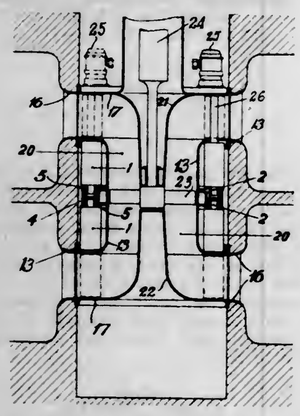
1,945,900
ROTOR WHEEL
Albert Huguenin, Paris, France
Application February 5, 1932, Serial No. 591,186, and in France February 6, 1931
4 Claims. (Cl. 253—148)



1. In a rotary machine comprising a hub, two series of pivoting blades the pitch of which is

smaller than the width, the respective blades of these two series being alternated and mounted on the hub, means for rendering at will these blades rigid with the hub or for releasing them, a first bored driving shaft element rigid with the hub of the wheel, three casings secured to the end of this first element, a second bored driving shaft element secured to these casings, distributing means at the end of this second element, three concentric shafts in the first element adapted to respectively control the locking and unlocking of the blades and the pivoting movements of both series of blades, a servo-motor in each of the said three casings, connecting means between these three servo-motors and the three shafts controlling the adjustment of the blades, conduits in the second element of the driving shaft, between the servo-motors and the said distributing means.

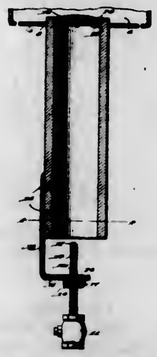
1,945,901
DISTRIBUTOR FOR HYDRAULIC REVERSING TURBINES
Albert Huguenin, Paris, France
Application February 5, 1932, Serial No. 591,187, and in France February 6, 1931
2 Claims. (Cl. 253—122)



1. In a distributor for hydraulic turbines, the combination of guide blades and of a journal made in one piece with the latter, two bearings adapted to receive the said journals, a ring rigid with the said bearings and tangentially connecting them, a cover on each bearing on the inner circumference of the said ring and opposite each of the said guide blades, a flange cut out in the form of a toothed crown on each journal of the guide blades and at its middle portion, the said toothed crown being so arranged as to exactly fit between the two bearings of each journal.

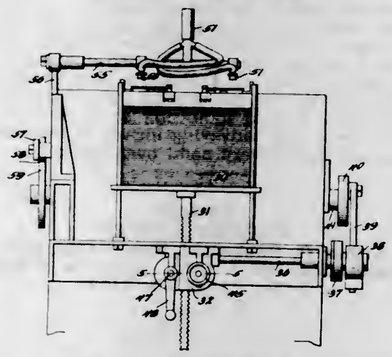
1,945,902
HEAT GENERATING UNIT
Edwin Johnson, Great Falls, Mont.
Application June 19, 1929. Serial No. 372,024
1 Claim. (Cl. 158—99)

Burner apparatus comprising a combustion chamber having a base provided with an aperture having peripheral notches, a burner tube of substantially uniform diameter from the lower to the upper end, having the upper end fitted in said aperture to project slightly beyond the base, a supply tube and nozzle tip centered with and below the lower end of said burner tube and being relatively small in comparison with the burner tube to leave a large area for the influx of atmospheric air, means to support the supply tube with respect to the burner tube, a plurality of perforate baffle plates at the upper end of the burner tube,



the uppermost plate defining an ignition zone which is supplied with atmospheric air through said notches, and means to support the baffle plates in the upper end of the burner tube.

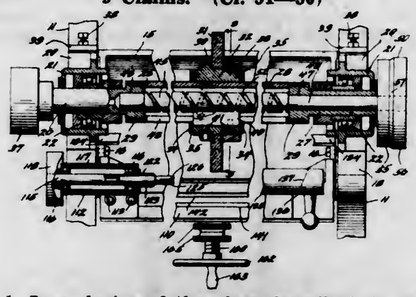
1,945,903
BLANK FEEDER
Frank M. Joslin, Amsterdam, N. Y., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y., a corporation of New York
Original application April 11, 1929, Serial No. 354,353. Divided and this application February 25, 1931. Serial No. 518,279
1 Claim. (Cl. 271—62)



In a blank feeding mechanism, a platform for holding a pile of blanks, a rack bar for supporting said platform, a gear wheel meshing with said rack bar, a shaft on which said gear wheel is mounted, a worm wheel rotatably supported on said shaft, said gear wheel and worm wheel having cooperating frusto-conical friction surfaces, whereby said gear wheel may be immediately operatively engaged by or disengaged from said worm wheel, means for intermittently and automatically rotating said worm wheel, said gear wheel and shaft being movable relative to said worm wheel to engage or disengage said friction surfaces as desired, a second gear wheel engaging teeth on said rack bar, and manually operable means for rotating said second gear to positively move said rack bar when said first gear wheel is disconnected from said automatically operated worm wheel.

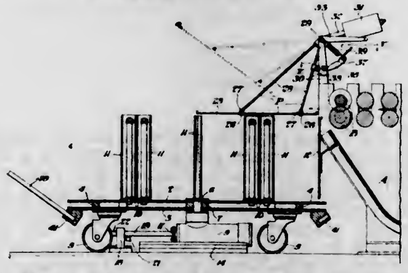
CARNEGIE LIBRARY OF ATLANTA

1,945,904
GRINDING MACHINE
Gibson H. Kennedy, Hartsville, S. C., assignor to Sonoco Products Company, Hartsville, S. C., a corporation of South Carolina
Application September 28, 1932
Serial No. 635,247
9 Claims. (Cl. 51—50)



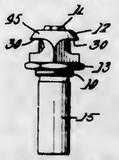
1. In a device of the class described, in combination, a supporting frame, a pair of spaced brackets mounted on said supporting frame for independent forward and rearward adjustment, means for adjusting the position of said brackets and means for securing them in adjusted positions, bearings in said brackets, a slotted hollow shaft the ends of which are rotatively mounted in said bearings, a grinding wheel slidably mounted on said shaft, means for causing said wheel to rotate with said shaft, a threaded shaft mounted within said hollow shaft for rotative relation thereto, means carried by said wheel and engaging the threads of said shaft, a pulley connected to said hollow shaft at one end thereof, a differential pulley connected to said threaded shaft at the opposite end thereof, belts for driving said pulleys, and means for shifting one of said belts from one surface of said differential pulley to the other whereby reversal of the direction of travel of said wheel may be accomplished.

1,945,905
SHEET HANDLING MECHANISM
George Cook Kimball, Pittsburgh, Pa., assignor to American Sheet and Tin Plate Company, a corporation of New Jersey
Application May 20, 1932. Serial No. 612,563
5 Claims. (Cl. 271—86)



1. The combination with a sheet delivery apparatus of a turntable for receiving the sheets discharged from said delivery apparatus, said table comprising a wheeled plate supporting platform, means for guiding sheets onto said platform, a fluid pressure operating cylinder for moving said platform toward and away from said delivery apparatus to permit rotation of said platform and a pivotal connection between said table and said cylinder.

1,945,906
THREADING DIE AND HOLDER
Oscar E. Koehler, Greenfield, Mass., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass., a corporation of Massachusetts
Application January 16, 1933. Serial No. 651,919
8 Claims. (Cl. 10—123)

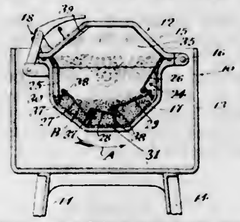


1. In a threading die, in combination, an externally threaded holder, a die having spaced threading lands with conical outer surfaces, and a cap mounted on said holder and securing said die thereto, said cap comprising an internally threaded end portion engaging the threaded portion of said holder and an opposite end portion provided with an internal conical surface engaging the conical surfaces of said lands, said cap being polyangular in transverse section and being provided with widely separated posts at selected corners of said cap by which the two end portions of said cap are connected, the polyangular section forming the posts merging into the conical portion of the cap and said cap being entirely open for chip clearance at the sides between said posts.

1,945,907
PROCESS FOR PURIFYING SOOT
Gerhard Kröner and Paul Dilthey, Cologne-on-the-Rhine, Germany, assignors, to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application April 9, 1930, Serial No. 442,993, and in Germany April 17, 1929
10 Claims. (Cl. 134—60)

1. Process for removing metal carbides from soot containing the same comprising heating the soot in an atmosphere free from carbon monoxide to a temperature of about 150–600° C., and heating the soot thereafter with a current of a gas containing carbon monoxide at a temperature of between about 50–210° C. until the soot is completely purified from metallic constituents.

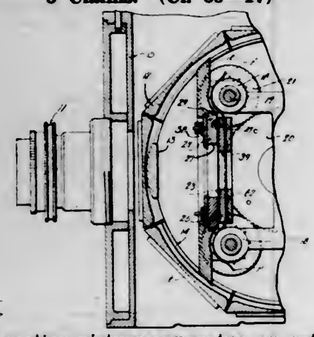
1,945,908
SILVER POLISHING MACHINE
Donaciano Mascareño, Los Angeles, Calif.
Application November 14, 1932
Serial No. 642,507
1 Claim. (Cl. 51—164



In a polishing machine for silverware including a rotatably mounted drum having a hinged cover and carrying a polishing medium of balls or the like, a receptacle removably mounted in the drum for separating the silverware from the polishing medium, said receptacle comprising a pair of end plates, a frame secured to each of
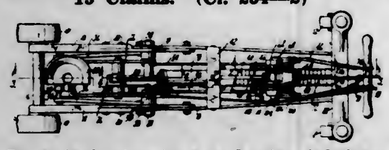
said end plates, a plurality of spaced bars secured to said frames at each end thereof, a plurality of elongated plates disposed in angular relation to each other with their longitudinal edges overlapping and extending between and secured to said end walls, and a plurality of pins extending between said plates and bars.

1,945,909
FILM GATE
Gabriel Garcia Moreno, Los Angeles, Calif., assignor to Moreno-Snyder Cine Corporation, Ltd., Los Angeles, Calif., a corporation of Delaware
Application April 18, 1931. Serial No. 531,203
8 Claims. (Cl. 88—17)



1. In motion picture apparatus, an optical system, a film guide located to guide a film across the axis of the optical system, and means for adjusting the position of the film guide longitudinally of the optical system, said means including means normally urging the guide in one direction longitudinally of the axis of the optical system, and adjustable stops spaced from the last mentioned means holding the guide against movement in said direction.

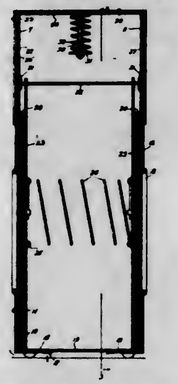
1,945,910
LIFTING JACK WITH TRAVELING PAWL MECHANISM
Leonard D. Nilson, Wayzata, Minn.
Application July 25, 1932. Serial No. 624,624
15 Claims. (Cl. 254—2)



4. In a jack structure, a horizontal frame, a lifting head raisable relative thereto and means for imparting raising movement to said lifting head comprising a ratchet bar lengthwise of and stationary on said frame, a traveler movable longitudinally thereof and operatively connected with said lifting head and pawl means for imparting movement to said traveler.

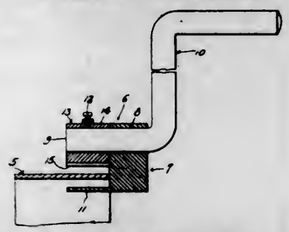
1,945,911
NAPKIN DISPENSING CABINET
Cecil O. Parmley, Bremerton, Wash.
Application April 12, 1933. Serial No. 665,806
3 Claims. (Cl. 312—61)

3. A napkin holder and dispensing device comprising a casing constituting a container for a stack of napkins, at least one wall of said container embodying an opening permitting access to be had to the interior for placing the napkins in position for subsequent withdrawal, said opening being surrounded by inturned marginal stop flanges, a door for closing said opening, said door comprising a plate hingedly connected at its upper end portion to the exterior of the casing and having its lower swingable end portion movable outwardly and upwardly, said lower end portion being provided with a retaining latch, the bottom



of the casing having an opening constituting a keeper for said latch, said door plate having a hand hole surrounded by a protective marginal bead, and means on the interior of the casing for feeding the napkins into easily grasped position, said means comprising a horizontal suspension rod, a follower plate slidably mounted on said rod, and means for exerting pressure against said plate to press the napkins against the inner side of the aforesaid door.

1,945,912
TURNING IMPLEMENT
Ralph B. Penfield, Sedan, Kans.
Application March 2, 1932. Serial No. 596,389
2 Claims. (Cl. 81—71)



1. In a pipe rotating device, a rod, an outside jaw fastened on said rod, a body having a bore rotatably receiving a portion of said rod adjacent said outside jaw, said body having a portion extending therefrom and arranged along and laterally spaced from said outside jaw and constituting an inside jaw, said outside jaw having a curved face having opposite end portions only one of which is adapted to engage the outside of the pipe at a time, said inside jaw having opposite edge portions both of which are arranged to engage the inside of the pipe when said rod is rotated for rotating the pipe, and a handle on said rod having a lateral portion for engaging that end of said body which is opposite that end engaged by said outside jaw, said lateral portion acting to confine said body on said rod and facilitating rotation of said rod.

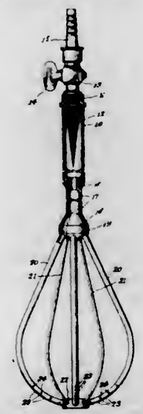
1,945,913
PROCESS FOR PRODUCING STABLE BLEACHING POWDER
Adolf Remelé, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application July 8, 1930, Serial No. 466,611, and in Germany July 16, 1929
2 Claims. (Cl. 23—250)

1. A process of converting undried bleaching powder into a condition in which it is stable during storage which comprises the steps of mixing the undried bleaching powder containing at least about 36 percent of available chlorine with an amount of unslaked lime which is at least sufficient to combine with the "free" water content of said bleaching powder, exposing the mixture to temperatures conditions leading to the slaking of said added unslaked lime, and finally drying the product.

1,945,914
PRODUCTION OF WATER-SOLUBLE PHOSPHATE COMPOUNDS
Emil Reubke, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application July 1, 1931, Serial No. 548,268, and in Germany July 19, 1930
5 Claims. (Cl. 23—107)

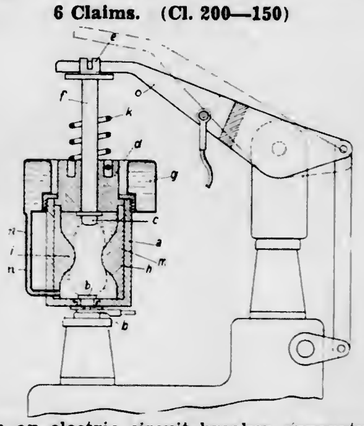
2. A process of converting a water-insoluble calcium phosphate into water-soluble phosphate compounds, which comprises treating the calcium phosphate, in the absence of free acids with an aqueous solution of neutral ammonium sulfate at temperatures between about 200 and 300° C., then separating the solution containing the ammonia compounds from the calcium sulfate formed, converting such calcium sulfate into ammonium sulfate by means of ammonia and carbonic acid, and reutilizing the aqueous solution of ammonium sulfate thus obtained in the process.

1,945,915
COMPRESSED AIR CREAM AND EGG WHIP
Curtis Riedel, New Brighton, Pa.
Application October 24, 1933. Serial No. 695,016
4 Claims. (Cl. 261—121)



1. A cream and egg whipping device, comprising a hollow handle portion, a compressed air connection connected to the upper end of the handle portion, an air filter disposed in the handle portion, a hollow head mounted on the lower end of the handle, a plurality of diverging tubes carried by and communicating with the head, a disc secured to and connecting the lower ends of the tubes, said tubes having air vents in their outer and lateral walls near the lower ends of the tubes, and stirring wires extending between the head and the disc and disposed alternately with the tubes.

1,945,916
SWITCH WITH CONTACTS SURROUNDED BY A MEDIUM UNDER PRESSURE
Sigurd Rump, Zurich, and Hans Thommen, Ennetbaden, Switzerland
Application September 20, 1930, Serial No. 483,256, and in Germany September 23, 1929
6 Claims. (Cl. 200—150)



1. In an electric circuit breaker apparatus, a closed substantially pressure-tight receptacle having a switch contact fixedly supported therein, a cooperating switch contact disposed for movement within said receptacle into connection with and disconnection from said fixed contact, the said contacts being immersed within an electrically conductive arc quenching liquid subject to vaporization and the creation of a gaseous bubble upon establishment of an arc responsive to movement of said cooperating contact from connection with said fixed contact, a rib of insulating material disposed within said receptacle operative to restrict the vapor space along a portion of the path of movement of said cooperating contact to such extent as to cause deformation and contact of said bubble with said rib during movement of said cooperating contact from connection with said fixed contact to thereby interrupt the path for flow of current between said contacts by way of said liquid.

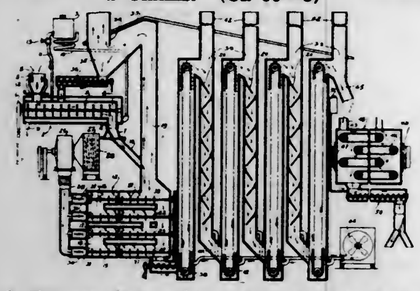
1,945,917
INSULATION OF LEADS TO ELECTRICAL CONDENSERS
Giuseppe Scarpa, Savona, Italy
Application January 20, 1931, Serial No. 510,044, and in Great Britain January 21, 1930
2 Claims. (Cl. 173—318)



1. A lead for electric condensers consisting of concentric tubes of insulation slightly spaced.

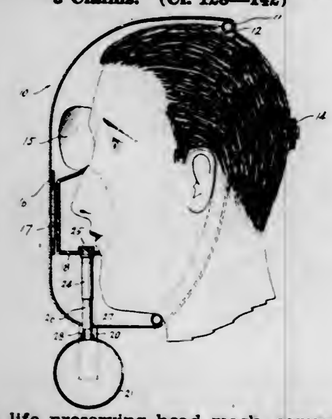
apart, oil in the spaces between said tubes, concentric conductor tubes alternating with the insulation tubes and immersed in the oil, and metal rings of circular cross section adjacent the ends of the insulation tubes, the ends of the conductor tubes wrapping around the respective rings and being turned away from the tubes of insulation whereby brush discharge from said tubes may be eliminated.

1,945,918
METHOD FOR MANUFACTURING MOLASSES FEED
Albert H. Schmidt, Kansas City, Mo.
Application July 27, 1931. Serial No. 553,391
2 Claims. (Cl. 99—5)



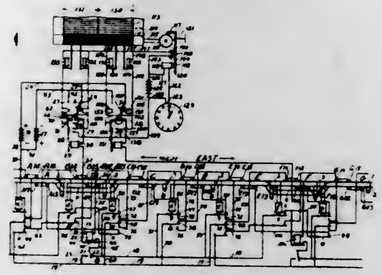
1. Process for making sugared cereal stock feed having maximum concentration of molasses comprising impregnating cereal particles with molasses by mixing the particles in heated state with heated molasses, agitating the thus treated particles in a heated atmosphere to a state of dryness, separating the lighter incompletely impregnated particles from the heavier completely impregnated particles through suspension by discharging the dried mixture into a rising column of air, and returning the relatively light particles to the mixing phase of the process for further impregnation.

1,945,919
LIFE SAVING MASK
Modesto Fernandez Seijo, Newark, N. J.
Application August 20, 1930. Serial No. 476,675
3 Claims. (Cl. 128—142)



1. A life preserving head mask, comprising a metallic, rigid, air-tight shell having an inwardly flanged rim, an inflatable cushion arranged within said rim, an adjustably mounted semi-flexible mask element associated with the interior of said shell and adapted to cover the nose and mouth of the wearer, an oxygen inlet tube variable in length extending from said mask element through said shell for connection to an oxygen supply source, an oxygen supply control arranged at the external portion of the tube and adjustable from without said shell, a pressure release valve forming part of the mask element and adapted to release excess gas from within said element into the interior of said shell, and an attaching strap provided with the shell for securing the latter to the head of the wearer.

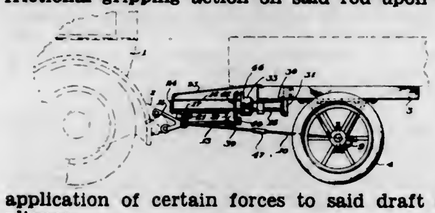
1,945,920
AUTOMATIC TRAIN CONTROL
Paul J. Simmen, Eden, N. Y.
Refiled for abandoned application Serial No. 650,245, July 9, 1923. This application October 26, 1927. Serial No. 228,937
10 Claims. (Cl. 246—49)



10. A train control and dispatching system for single track railways comprising a trackway divided into sections, each section being divided into blocks, a track circuit for each block, a central office, currents of different kinds at the central office, a switch at the central office for selecting said currents, a main circuit for supplying said selected current to a section, a section control relay characteristically responsive to the selection of current for governing the signal aspects throughout said section, train control means for each block for each direction of movement through the section, said train control means being conditioned by means of line circuits governed by said section relay in accordance with the selection of current at the central office to establish a proceed signal aspect for one direction of train movement through the section and a stop signal for the opposite direction of movement, said line circuits being subject to track circuit control, means including said track circuits for preventing a change to a proceed signal aspect at either end of the section by means of the manipulation of the switch at the central office when a train accepts a proceed signal aspect at the opposite end of the section, and means also controlled by said track circuits for indicating at the central office the movement of a train with respect to said section.

1,945,921
TRAILER COUPLING
Elgie R. Shaffer, Columbus, Ohio
Application February 17, 1932. Serial No. 593,623
5 Claims. (Cl. 280—33.5)

1. In a device of the class described, a coupling member including an arc-shaped rod adapted to be pivoted to a leading vehicle, a draft appliance adapted to be pivotally connected to the leading vehicle and having engagement with said arc-shaped rod, and means for causing a frictional gripping action on said rod upon the



application of certain forces to said draft appliance.

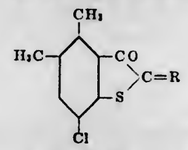
1,945,922
METHOD OF AND MEANS FOR WASHING FRUIT
Fred Stebler, Riverside, Calif., assignor, by mesne assignments, to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application July 5, 1927. Serial No. 203,370
33 Claims. (Cl. 146—194)



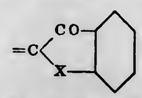
1. A method of washing fruit of specific gravity greater than the washing solution, which includes propelling the fruit through the solution, supporting the fruit partially submerged in the solution, spraying the solution over the fruit, and removing the fruit from the solution.

1,945,923
4.5 - DIMETHYL-7-CHLORO-OXYTHIONAPHTHENE AND ITS INDIGOID DERIVATIVES
Norbert Steiger, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application June 2, 1931, Serial No. 541,745, and in Germany June 7, 1930
3 Claims. (Cl. 260—53)

1. As new compounds the oxy-thionaphthene derivatives of the general formula:



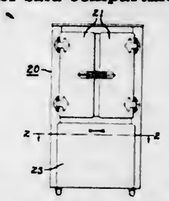
in which formula R means H_2 or a radical of the formula:



(wherein X means S or NH and the benzene nucleus may contain halogen atoms or a methyl-or methoxy group).

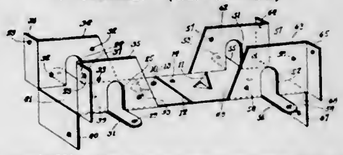
1,945,924
REFRIGERATING APPARATUS
Carl W. Steiner, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware
Application March 23, 1929, Serial No. 349,429
Renewed March 1, 1933
9 Claims. (Cl. 62—115)

1. A refrigerating apparatus comprising in combination, a compartment having one side only open, a compressor and a motor disposed within said compartment, said motor being located at the side of said compressor, a fan on the compressor for circulating air in through the open side of said compartment and over said



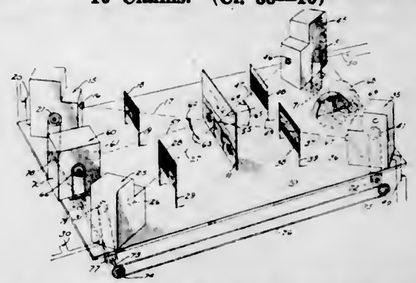
compressor and motor, a condenser between the fan and compressor, and means operated by the motor for intensifying the circulation of air over the condenser and out of said compartment.

1,945,925
METALLIC TIE STRUCTURE
William Stiefel, Baldwin, N. Y.
Application November 8, 1932. Serial No. 641,793
7 Claims. (Cl. 20—94)



1. A metallic tie structure comprising a coupling portion formed with upstanding spaced stops, an apertured combined support and tie member extended from each end of the coupling portion, a pair of spaced, apertured, parallel side cheeks integral with the sides of each combined support and tie member, a pair of oppositely extending apertured tongues integral with opposite sides of each combined support and tie member and disposed at right angles to the cheeks, an outwardly extending apertured tie member at the outer end of and disposed at right angles to each cheek, and a depending apertured tie member at the outer end of each combined support and tie member.

1,945,926
METHOD OF AND APPARATUS FOR PRODUCING MOTION-PICTURES
Louis H. Tolhurst, Los Angeles, Calif.
Application October 13, 1928. Serial No. 312,262
10 Claims. (Cl. 88—16)



1. A method of producing a composite image on a film, which comprises: projecting a pair of oblique images on a composing screen in a manner to form corrected images thereon; blocking off overlapping portions of the individual images formed by said oblique images to form

a corrected composite image; and photographing said corrected composite image.

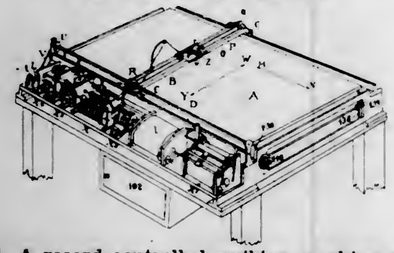
3. In combination: a composing screen; a motion picture camera directly in front of said composing screen and focused thereon; a projector means comprising a pair of projectors on opposite sides of said camera at least one of said projectors being a motion-picture projector; means for synchronously operating said projector means and said camera; and film means in each of said projectors said film means carrying distorted images, said projectors being disposed at such angles relative to said screen that the images projected thereon by said projectors are corrected images.

1,945,927
MAILING SHEET
Alfred Watson, Highland Park, Pa.
Application June 28, 1932. Serial No. 619,631
3 Claims. (Cl. 229—925)



1. A mailing missive having a plurality of sections defined by fold lines and a plurality of transversely extending slits, and opposite end parts of the sheet contoured to be tucked through the slits, whereby one end section remains upon the exterior of the folded missive connected by a tear line.

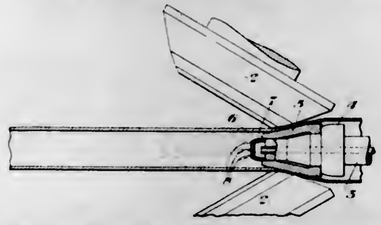
1,945,928
MACHINE FOR PRODUCING OR REPRODUCING DESIGNS AND OTHER FORMS
Walter Wilkins, Finchley, London, and Edgar Joseph Vandy, Manor Park, London, England, assignors of one-third to George Edward Vandy, London, England
Application March 12, 1929, Serial No. 346,445, and in Great Britain March 14, 1928
104 Claims. (Cl. 33—18)



1. A record-controlled scribing machine comprising an operating instrument, a work support, driving members disposed at an angle to one another and forming components of an uninterrupted drive for producing relative movement between said instrument and said support, means for automatically adjusting the relative speeds of said driving members, a mechanical record of predetermined form for controlling said means, and transmission means for maintaining the continuity of said drive without the aid of said record during said relative movement.

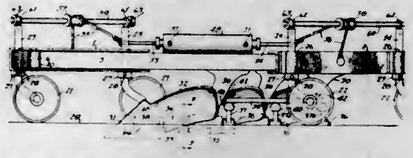
2. A record-controlled scribing machine comprising an operating instrument, a work support, driving members disposed at an angle to one another and forming components of an uninterrupted drive for producing relative movement between said instrument and said support, variable gearing operatively connected with said members for adjusting the relative speeds thereof, means for automatically varying the speed ratio of said gearing, and a mechanical record of predetermined form for controlling said means.

1,945,929
MANUFACTURE OF SEAMLESS TUBES
William Bark, Gary, Ind., assignor to National Tube Company, a corporation of New Jersey
Application March 14, 1932. Serial No. 598,815
3 Claims. (Cl. 80—62)



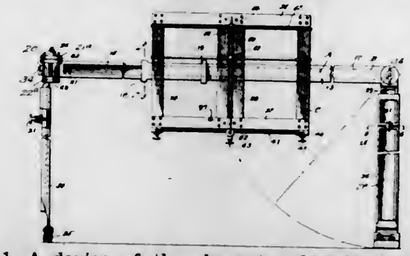
1. The method of hot rolling seamless tubes which consists in depositing a quantity of sodium salt in said tubes and distributing said salt through the tubes during the rolling operation by gaseous fluid under pressure, said salt volatilizing in the hot tube and serving to loosen the scale and form a coating on the plug over which the tube is being rolled which prevents the metal of the tube fusing to the plug, the gases formed by the volatilizing salt filling the tube, thereby excluding air and materially reducing the oxidation of the tube.

1,945,930
REVERSIBLE GANG PLOW
Alfred Birrer, Oakland, Calif., assignor of one-half to August Westad, Oakland, Calif.
Application April 25, 1932. Serial No. 607,436
5 Claims. (Cl. 97—31)



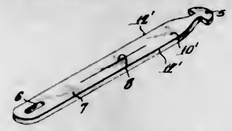
1. The combination with a tractor having an elongated bar extending transversely thereto, a plow frame swingable into two positions and having a bar, connections between the bars and free to move from end to end thereof, said frame being swingable into one position when the connection exerts a pull at one end of the frame bar and into another position when the connection exerts a pull at the other end of the bar, plow shares carried by the frame and being swingable into two positions, and means connecting the shares with the frame for simultaneously swinging the shares when the position of the frame is changed.

1,945,931
BOOK STAND AND TRAY
William J. Boyle, Indiana Harbor, Ind., assignor of two-fifths to Francis Warren Boyle, Indiana Harbor, Ind.
Application August 12, 1930. Serial No. 474,761
7 Claims. (Cl. 45—80)



1. A device of the character described, comprising a supporting stand including a main longitudinally extending bar, an adjustable leg pivotally connected with one end of the bar, a lazy-H head connected with the opposite end of the bar, swinging arms supported by the lazy-H head movable from a position at right angles to the bar to a position parallel to the bar, pivoted legs associated with the outer ends of the arms, and a supporting rack detachably and adjustably associated with the supporting bar.

1,945,932
HAIR CURLER OR WAVER
Wendell J. Caley, Manoa, Pa.
Application March 16, 1933. Serial No. 661,065
7 Claims. (Cl. 132—44)



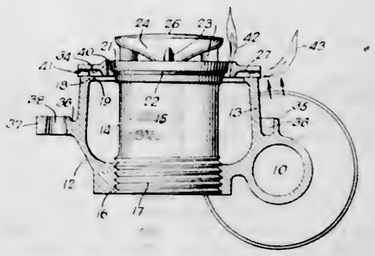
1. In a waver or curler, a flexible flat strip of substantially uniform thickness, having an elongated eye at one end and a lateral toothed formation from the other end.

1,945,933
PROCESS FOR THE MANUFACTURE OF DIAPHRAGMS ADADPTED FOR USE IN PHYSICAL OR LIKE APPARATUS
Constantin Chilowsky, Paris, and Paul Breton, Bellevue, France
Application December 20, 1929, Serial No. 415,598, and in France December 28, 1928
8 Claims. (Cl. 18—57)



1. A process for the manufacture of diaphragms having backing members permeable to fluids, which consists in stretching said backing members in disposing said stretched members above a liquid and at a distance from the surface of said liquid which is less than the desired thickness of said diaphragm, in pouring upon said backing members, in the form of a fluid adapted to coagulate, the substance which is to constitute the diaphragm, and in allowing the said fluid to coagulate, for the purpose set forth.

1,945,934
BURNER
Edgar N. Dollin, Long Island, and Benson F. Waddell, Jackson Heights, N. Y., assignors to National Gas Range Corporation, New York, N. Y., a corporation of New York
Application February 11, 1933. Serial No. 656,265
15 Claims. (Cl. 158—116)



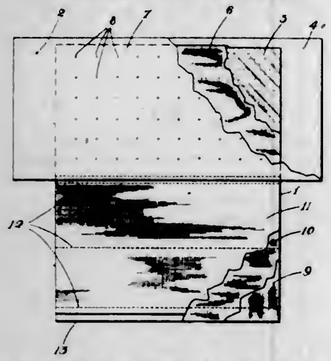
1. A hollow gas burner having a gas inlet leading to its interior and having an air opening extending vertically through it, said burner being provided with two circumferential series of combustion ports, one series of ports extending horizontally and the other series of ports extending vertically, and a baffle disposed above the air opening for directing and preheating secondary air for the vertical ports.

1,945,935
APPARATUS FOR MAKING EMBOSSING CYLINDERS
Fritz Fischer, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application October 22, 1931, Serial No. 570,340, and in Germany December 18, 1930
5 Claims. (Cl. 29—90)



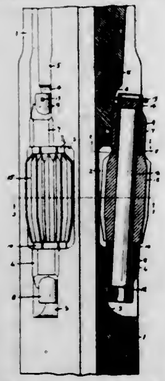
5. In a device for forming an embossing cylinder, means for movably supporting a polishing wire in position transversely of the axis of the cylinder, with a portion thereof disposed in a circumferentially extending groove in said cylinder, means for continuously moving said wire lengthwise in said groove, and means for rotating said cylinder on its axis during said movement of the wire in said groove.

1,945,936
HAIR WAVING APPLICATOR
Frank Foriyes, Brooklyn, N. Y.
Application June 27, 1933. Serial No. 677,787
8 Claims. (Cl. 132—36.2)



1. As an article of manufacture, a hair waving applicator, comprising in combination a pad portion, and an absorbent material and a heat conductor enclosed in a protective means.

1,945,937
DRILL
Russell Giesey, Oklahoma City, Okla., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application May 6, 1933. Serial No. 669,625
4 Claims. (Cl. 255—73)



1. A reamer having a body, said body having a cutter recess, block recesses adjacent opposite ends of said cutter recess, and a pin groove extending from one of said block recesses; a block in each of said block recesses; bushings oppositely threaded in said blocks; said business being insertable into said blocks from said cutter recess and having annular shoulders to bear against said blocks; that bushing in that block remote from said groove having an internal shoulder; a reamer cutter in said cutter recess between the annular shoulders of said bushings; a cutter pin insertable through said groove, through that block adjacent said groove, through said cutter and into that block remote from said groove, adjacent the internal shoulder of said remote block; and a removable cotter pin to limit the movement of said cutter pin away from said internal shoulder so that said pin floats in said bushings and cutter.

1,945,938
FOUNTAIN SHAVING BRUSH
Robert G. Hemphill, Barberton, Ohio
Application February 2, 1933. Serial No. 654,942
1 Claim. (Cl. 15—137)



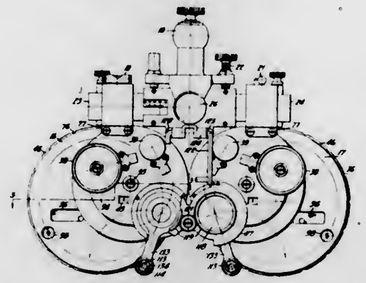
A shaving brush comprising a head having a bore provided with screw threads and a flared portion to form a conical seat to be engaged by the conical end of a collapsible container with the discharge neck thereof threaded in the bore, bristles on the head, a ring journaled to the head, a cylinder receiving the head and secured to the ring with the container located therein, and means engaging the container and caused to slide by the rotation of the cylinder for squeezing the container to force the contents thereof through the bore onto the bristles.

1,945,939
PORTABLE ELECTRIC CIRCUIT CUT-IN
William H. Hindman, Hollywood, Calif., assignor to Samuel H. Hindman, Owensmouth, Calif., and himself, as trustees
Application February 13, 1931. Serial No. 515,519
10 Claims. (Cl. 173—273)



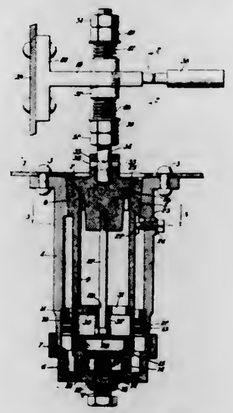
1. In an electric cut-in, a conducting body having a cylindrical shank with an insulating collar slidable thereon and an insulating sleeve to form a hand grip threaded thereon, the said body having a fixed jaw at one end and means for attaching a conducting cable at the other end, a movable jaw pivotally connected to the shank, a spring actuated means to normally operate said jaw to a closed position, the said sleeve being adapted to engage the collar and thrust the collar against the pivoted jaw only to clamp a conducting wire between the two jaws.

1,945,940
OPHTHALMOLOGICAL INSTRUMENT
Clyde L. Hunsicker, San Francisco, Calif., assignor of one-half to Aaron S. Green and Louis D. Green, both of San Francisco, Calif.
Application January 4, 1932. Serial No. 584,592
9 Claims. (Cl. 88—22)



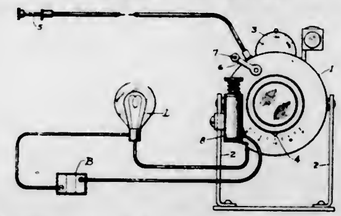
1. In a device of the character described, a pair of superposed relatively rotatable lens carrying discs, one of said discs being provided with a plurality of apertures and having numeral markings adjacent certain ones of said apertures, the other of said discs having numeral markings cooperating with the numeral markings of the first disc and visible through the apertures therein, the numerals on both discs when read together as a single number indicating the calculated value of an optical characteristic of the combination of lenses derived from the relative setting of said discs.

1,945,941
DISCHARGE-VALVE
Frederick Kluge, Elizabeth, N. J.
Application April 16, 1932. Serial No. 605,578
9 Claims. (Cl. 137—21)



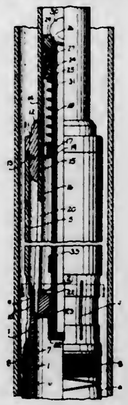
1. A container having a discharge-opening, a casing operatively secured to said container for removal therefrom and provided with a valve-seat in alinement with said opening, a valve-member adapted to engage the valve-seat of said casing, and means accessibly disposed for manipulation from the exterior of said container for releasing said casing from the container and permitting removal of said casing and valve-member as a unit through the interior of said container.

1,945,942
CAMERA FLASH-LIGHT ATTACHMENT
George L. Lang, South Orange, N. J.
Application April 16, 1932. Serial No. 605,577
5 Claims. (Cl. 67—29)



5. A flash-light attachment for a camera having a shutter-lever comprising, a support member having means for quickly attaching the same to a camera member closely adjacent the shutter, an adjustable device carried by said support member and resiliently held in adjusted position in the path of movement of said shutter-lever, circuit closing contacts carried by said support member and brought into engagement by said adjustable device, said circuit including a source of current and a flash-light.

1,945,943
HYDRAULIC SETTING TOOL
Leslie A. Layne, Houston, Tex.
Application April 5, 1932. Serial No. 603,351
12 Claims. (Cl. 166—10)

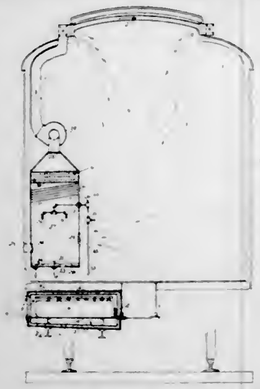


1. A setting device including, a packer barrel, a packer sleeve slidable thereon, a stem, a bushing thereon, means to space said bushing from said packer barrel, means to hold the lower end of said spacing means in connection with said packer barrel, and hydraulically operated means to release said connection and allow said bushing to move said packer sleeve downwardly.

1,945,944
AIR CONDITIONING SYSTEM AND APPARATUS THEREFOR
Frank T. Leilich and Robert K. Leilich, Baltimore, Md., assignors, by mesne assignments, to William W. Varney, Baltimore, Md.
Application December 3, 1930. Serial No. 499,763
4 Claims. (Cl. 257—7)

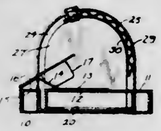
1. A cooling apparatus for air or gas, comprising a bunker, a fluid inlet into said bunker and arranged to permit said fluid to contact with

a refrigerant means within said bunker, an outlet to said bunker for withdrawing said fluid from said bunker, means for cooling gas by said fluid



in its circulation outside of said bunker, and means for by-passing a part of said fluid by said air-cooling means to lower the temperature of said fluid.

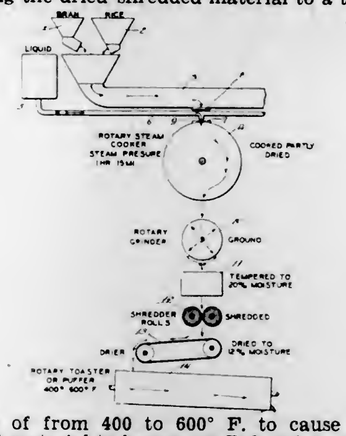
1,945,945
DISPLAY DEVICE
Stanley Lowen, New York, N. Y.
Application May 13, 1931. Serial No. 536,990
3 Claims. (Cl. 206—44)



1. A device comprising a member adapted for holding an article, a support to which said member is secured for movement into different positions on the support, a housing for said member to conceal and protect said member when in one position and having an opening through which the member is movable to display position exterior of the housing adapted to be assembled with said support, and a hollow base above which said housing extends and within which the assembly of said support and housing is insertible as a unit and to which it is fastened.

1,945,946
CEREAL FOOD
Eugene H. McKay, Battle Creek, Mich., assignor to Kellogg Company, Battle Creek, Mich., a corporation of Delaware
Application December 5, 1928, Serial No. 323,866
Renewed May 4, 1932
15 Claims. (Cl. 99—10)

14. A method of making a ready-to-eat cereal food comprising cooking a mixture including rice, bran and water in the proportions of about 40 pounds rice, 10 pounds bran and 1½ gallons of water at a steam pressure of about 15 pounds for about one hour fifteen minutes, drying the cooked material sufficiently to enable it to be ground properly, grinding the cooked material in an attrition grinder to a consistency suitable for shredding, drying the ground material to about a 20% moisture content, running the ground and dried material through shredding rolls, drying the shredded material to a moisture content of approximately 12% moisture, and thereafter subjecting the dried shredded material to a tem-



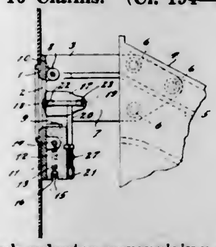
perature of from 400 to 600° F. to cause the shredded material to become puffed and toasted.

1,945,947
CEREAL FOOD
Eugene H. McKay, Battle Creek, Mich., assignor to Kellogg Company, Battle Creek, Mich., a corporation of Delaware
Application September 2, 1933. Serial No. 687,923
13 Claims. (Cl. 99—10)



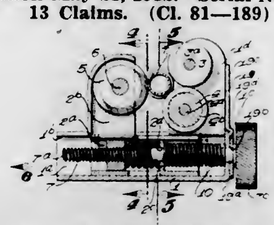
7. A process of making a ready-to-eat cereal food comprising cooking in moisture rice units, such as whole kernels and/or parts thereof, partially drying the units, forming the same into ribbons in which the cooked units adhere and substantially preserve their individuality, severing the ribbons into pieces, further drying the pieces until hard and brittle, and causing the adhering units to puff up and become crisp, friable and porous by frying the pieces.

1,945,948
PROTECTIVE MEANS FOR COIN CONTROLLED APPARATUS
Louis H. Morin, New York, N. Y., assignor, by mesne assignments, to Doehler Die Casting Co., a corporation of New York
Application November 24, 1930
Serial No. 497,769
16 Claims. (Cl. 194—97)



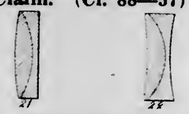
16. A check selector comprising a member having a check receiving passage therethrough, and means for preventing a check having an opening therethrough from entering the check receiving passage including a projection movably mounted for movement in a direction substantially lateral to the plane of the check receiving passage and adapted to extend into the check receiving passage and engage the leading edge of a check having an opening therethrough, and means actuated by a check inserted in the check receiving passage for controlling the movement of the projection.

1,945,949
TUBE CUTTER
Robert L. Myers, San Diego, Calif.
Application May 21, 1932. Serial No. 612,750
13 Claims. (Cl. 81—189)



1. In a tube cutter, a body element, a slide member carried thereby, arms extending laterally from said body element and slide member, rollers supported by some of said arms, a cutting wheel supported by others of said arms, an adjusting screw member journalled by said body member and slide member, a traveler member thereon, and yieldable means operatively connecting said slide member with said traveler member.

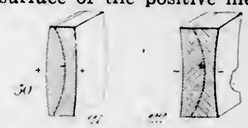
1,945,950
ANAMORPHOSING OBJECTIVE
Harry Sidney Newcomer, New York, N. Y.
Application March 2, 1929. Serial No. 344,034
1 Claim. (Cl. 88—57)



An optical apparatus for taking or projecting cinematographic or photographic views comprising in combination an anamorphoser and a spherical objective, the anamorphoser being composed of a convergent and a divergent cylindrical lens with parallel generating lines and coincident axial planes, the convergent and divergent lenses being spaced a distance apart substantially equal to the difference between their absolute focal lengths, whereby the second focal point of the convergent lens coincides with the first focal point of the divergent lens, thus locating the image due to the anamorphoser in the same plane as the object, and thus correcting for astigmatism along the axis of the anamorphoser, the cylindrical lens of the anamorphoser situated furthest from the spherical objective being divergent and having a concave exterior surface, thus correcting for astigmatism of oblique rays, in which the anamorphoser comprises one plane-convex and one double concave cylindrical lens, the index of refraction of the different glasses being substantially the same, of the order of 8/5.

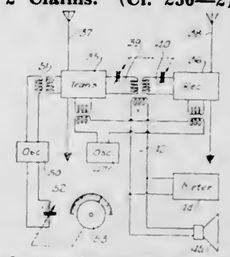
1,945,951
AFOCAL OBJECTIVES
Harry Sidney Newcomer, New York, N. Y.
Application January 30, 1930. Serial No. 424,599
51 Claims. (Cl. 88—57)

1. An afocal anamorphosing cylindrical objective consisting of two members, the one positive and the other negative, the axial planes of all the cylindrical elements of the objective lying in one and the same plane, the second focal point of the positive member coinciding with the first focal point of the negative member, the tangential focal surface of the positive member corre-



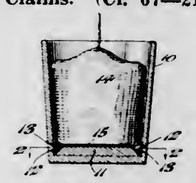
sponding to its second focal point being curved from a true plane and the tangential focal surface of the negative member corresponding to its first focal point being curved to the same extent from a true plane thus correcting for astigmatism of oblique rays.

1,945,952
RADIO RANGE FINDER
Alexander McLean Nicolson, New York, N. Y., assignor to Communications Patents, Inc., New York, N. Y., a corporation of Delaware
Application November 8, 1930. Serial No. 494,238
2 Claims. (Cl. 250—2)



1. In an electrical system for measuring distance between points, an inter-connected radio transmitter and receiver at one of said points, similar apparatus at a distant point, means for initiating a continuous frequency wave at said first point for transmission to said distant point, said distant transmitter and receiver re-transmitting said continuous wave to said local point, an independent oscillator connecting said transmitter and receiver at each of said points for alternately operating said receiver and said transmitter at each of said points to prevent interference between said inter-connected systems, and means for indicating the phase shift between the transmitted and received waves.

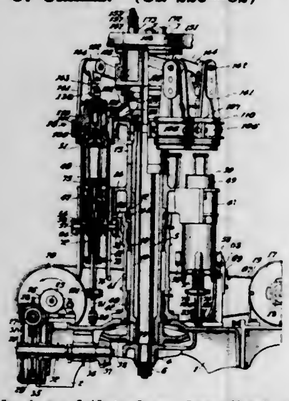
1,945,953
VOTIVE LIGHT TUMBLER
Timothy M. O'Connell, Philadelphia, Pa.
Application September 2, 1932. Serial No. 631,450
3 Claims. (Cl. 67—21)



1. In combination a votive light tumbler having formed integrally therewith in its bottom wall a raised circular boss the circumferential edge of which is spaced from the tumbler side walls and a candle the base of which is provided with a metallic disc arranged to seat upon said boss whereby, when the candle has been con-

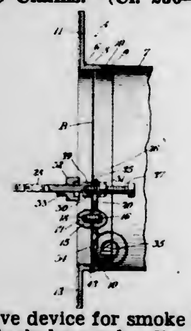
sumed, no melted candle grease is in direct contact with the upper surface of said boss, and said metal disc with any adhering candle grease may be readily removed from the tumbler.

1,945,954
SEALING MACHINE
Abraham Podel, Bronx, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a corporation of New York
Application February 26, 1930. Serial No. 431,621
37 Claims. (Cl. 226—82)



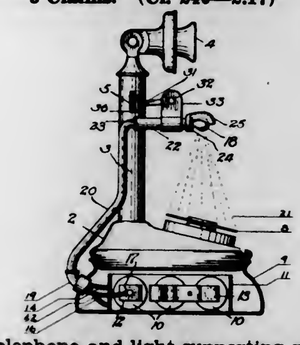
1. In a device of the class described, the combination of a rotatable table, cylindrical members mounted on said table, means rotatable with said table for closing the upper ends of said cylinders, and means for moving said cylindrical members upwardly to close the upper ends thereof and to form chambers substantially above said table.

1,945,955
DRAFT CONTROLLING APPARATUS FOR FURNACE FLUES
Thornton W. Price, New Brunswick, N. J.
Application October 25, 1930. Serial No. 491,135
9 Claims. (Cl. 236—45)



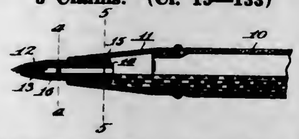
1. In a valve device for smoke flues, where said valve device includes a valve disc pivotally mounted to swing into and out of closed position, counter weight means for said disc comprising a weight rod projecting laterally from one side of the disc, a weight projecting from the opposite side of the disc to counter balance the weight rod with respect to the pivotal axis of the disc, said last mentioned weight having a portion extending loosely through an opening of the disc and into detachable connection with the adjacent end of the weight rod whereby said weight and said weight rod are detachably connected with the disc, and a weight adjustable along said weight rod toward and away from said pivotal axis of the disc.

1,945,956
TELEPHONE STAND AND LIGHT
Clifford B. Rowell, Buffalo, N. Y.
Application October 29, 1932. Serial No. 640,223
3 Claims. (Cl. 240—2.17)



1. A telephone and light supporting means for use with a telephone instrument formed with a base, a body, a receiver and an arm projecting from said body to hold said receiver, comprising a stand with a flared top for fixedly supporting said instrument, a light standard fixed to said stand, a telescoping upper end to said standard, a switch lever in said telescoping end movable into operable position with said receiver arm by said telescoping end, a bulb in said telescoping end, a battery in said stand, circuit means to connect said battery and said bulb through said standard, a manual and an automatic switch in said connecting circuit means, said automatic switch including said lever operable by said receiver arm to start said automatic switch toward an "off" or an "on" position and means whereby said lever and arm are spaced apart on either said "on" or "off" position.

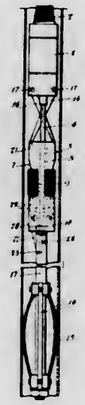
1,945,957
FINGER NAIL ENAMEL CONTAINER AND APPLICATOR
Alvin E. Salmon, Los Angeles, Calif.
Application April 17, 1933. Serial No. 666,488
3 Claims. (Cl. 15—133)



1. In a finger nail enamel container and applicator, the combination with a hollow body adapted to contain enamel or the like and a tubular cap mounted on the forward end of said hollow body, of a body of bristles seated in the forward portion of said tubular cap and projecting forwardly therefrom, a feeder tube axially disposed in the rear portion of said body of bristles, the forward portion of which feeder tube projects beyond the forward end of said cap and there being an air inlet and outlet aperture formed through the wall of the forwardly projecting portion of said feeder tube in front of the end of said cap.

1,945,958
CASING PERFORATOR
Joseph H. Slocum, Long Beach, and Bert L. Welch, Fullerton, Calif.; said Welch assignor to said Slocum
Application January 25, 1933. Serial No. 653,400
5 Claims. (Cl. 81—188)

1. In a casing perforator, the combination of an upper head, a pair of perforator tools pivotally attached to the head at diametrically opposite points and mounted so that they cross each other in an inclined position, a spear, means for suspending the spear from the head, a mandrel having an anchoring device at its lower end and extending up through the spear, means for holding the spear in a relatively elevated position on the mandrel in passing the perforator down the



casing and operating to release the spear for downward movement on the mandrel when the spear is pulled upwardly on the mandrel, slips carried by the mandrel to co-operate with the spear to jam the same on the casing, thereby enabling downward movement of the upper head thereafter to force the perforator tools through the casing.

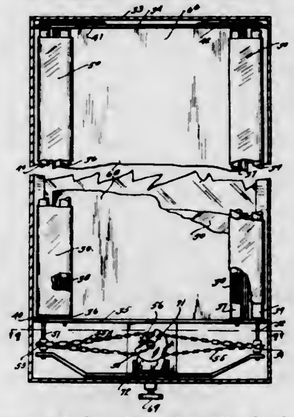
1,945,959
TREATMENT OF YARN
Frederick J. Williams and Herbert E. Martin, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 25, 1929
Serial No. 349,896
8 Claims. (Cl. 28—1)

1. The method of conditioning yarns containing organic derivatives of cellulose in order to render them more amenable to knitting comprising incorporating or applying a conditioning liquid containing a liquid polyhydric alcohol and an oil in such proportion and amounts as to render such yarn capable of being knit into a fabric of close construction substantially free of defects and a solvent for the polyhydric alcohol and the oil.

1,945,960
PRODUCTION OF HYDROCARBONS
Fritz Winkler and Hans Haeuber, Ludwigshafen-on-the-Rhine, Germany
No Drawing. Application February 18, 1931, Serial No. 516,829, and in Germany February 20, 1930
4 Claims. (Cl. 260—170)

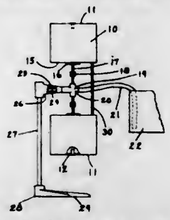
1. A process for the production of olefines, which comprises passing a gas comprising butane, propane and ethane through an internally tinned manganese-copper tube, which is heated to about 700° C.

1,945,961
MAP DISPLAY AND CABINET
Arthur M. Wiswell, Roseburg, Oreg.
Application January 19, 1932. Serial No. 587,508
1 Claim. (Cl. 40—95)



In a device of the class described, the combination of a support, a cabinet rotatably mounted to the support, a frame vertically disposed within the cabinet and extending lengthwise thereof, said frame comprising a panel having inwardly turned top and bottom end walls, a pair of spaced apart parallel rods extending through said end walls and rotatably supported thereby, a sprocket wheel secured to the lowermost end of each of said rods and cooperatively interconnected by a sprocket chain, a shaft extending transversely through the cabinet and provided with a sprocket wheel for actuating said sprocket chain, a brake drum secured to said shaft, a brake shoe associated therewith and provided with means extending to a point exterior of the cabinet for applying locking pressure to the drum, rollers secured to and rotatable with said rods, companion rollers rotatably mounted within the frame and arranged parallel to the first mentioned rollers, an elongated delineated sheet secured at one of its ends to one of said companion rollers and extending around the roller adjacent thereto thence across the frame and around the corresponding roller on the opposite side of the frame and terminating in attachment to the roller adjacent thereto, said companion rollers being provided with spring tension means to urge their rotation in a direction to apply tension on said delineated sheet.

1,945,962
APPARATUS FOR AERATING AQUARIUMS
Michael Arneth, New Britain, Conn.
Application February 24, 1932. Serial No. 594,976
3 Claims. (Cl. 230—75)



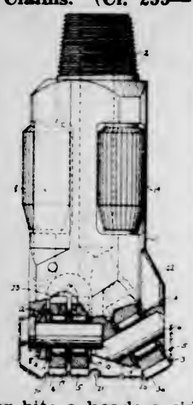
1. In apparatus for aerating aquariums, an upper and a lower container connected for discharge of liquid from the upper to the lower for the displacement of air from the latter, and

delivery control means for such displaced air comprising a cock structure that is provided with a delivery passage that is made up of two connected branches, the one directed outwardly for the delivery proper and the other for connection with the lower container for receiving the displaced air, means for fixedly supporting said cock structure so as to be adapted to serve as a bearing, a cock housing rotatably mounted on said cock structure and mechanically connected to said containers so as to rotate therewith as a unit, and said housing being provided with diametrally opposed passages for being alternately brought into registration with said other branch passage responsive to rotation of said unit for effecting such connection with the lower container.

1,945,963
PECTIN PREPARATION
Willard E. Baier and Robert E. Harris, Ontario, Calif., assignors to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
No Drawing. Application September 8, 1930 Serial No. 480,621
9 Claims. (Cl. 99—11)

3. A substantially, dry, finely divided pectin product containing acetonedicarboxylic acid.

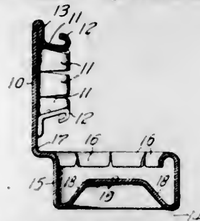
1,945,964
ROLLER BIT
Guy E. Behnke, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application September 5, 1931. Serial No. 561,404
5 Claims. (Cl. 255—71)



1. In a roller bit: a head; a side roller cutter mounted on one side of the lower end of said head on an axis extending downwardly and inwardly toward the axis of said head; and a cross roller cutter mounted adjacent the opposite side of the lower end of said head on an axis at substantially a right angle to the axis of said head; said side roller cutter having a cutting edge extending below the cutting edge of said cross roller cutter.

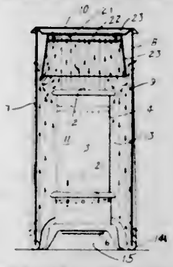
1,945,965
SEAL
Marcus B. Behrman, Brooklyn, N. Y.
Application September 3, 1930. Serial No. 479,488
2 Claims. (Cl. 292—307)

1. An unopenable seal comprising a pair of opposed telescopable cups, the outer one having an inwardly-turned rim, the inner one having a non-resilient, deformable, outwardly-turned rim, and a depression in the base of the outer cup providing a wedge-shaped abutment adapted to enter the inner cup when the seal is closed



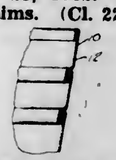
and extending laterally outwardly beyond the inwardly turned rim of the outer cup, said abutment forcibly and permanently deforming said inner cup into a spread condition so as to produce an interlock between said rims.

1,945,966
CIRCULATOR CASING FOR HEATERS
Leon E. Brackett, Oakland, Calif.
Application August 24, 1931. Serial No. 559,033
2 Claims. (Cl. 126—96)



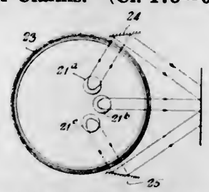
1. In a converter for open-top heaters, a casing arranged to enclose the heater to define a chamber around the sides and top thereof and having inlet and discharge openings respectively adjacent the bottom and sides of the casing, means on the inside of said casing fixed to the top thereof for entraining and retarding the flow of products discharged from the heater and comprising a member forming an inverted bowl arranged for the reception of the heated products issuing from the heater, and having the lower extremity thereof extending substantially below said discharge openings, and a perforated plate fixedly held in said bowl in spaced relation from the base thereof and arranged to be positioned over the heater to receive the products discharged therefrom.

1,945,967
STRIP WOUND TUBULAR ARTICLES
Gus L. Colbie, Brooklyn, N. Y., assignor to F. MacGovern Corporation, New York, N. Y., a corporation of New York
Application April 23, 1932. Serial No. 607,102
6 Claims. (Cl. 220—1)



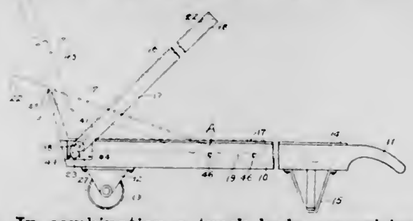
1. As a new article of manufacture, a tubular structure of varying diameters at different cross sections, composed of a strip of metal spirally wound upon itself with its adjacent edges interlocked.

1,945,968
TELEVISION SYSTEM AND APPARATUS
Domenic Sicari de Amicis, Jersey City, N. J.
Original application June 27, 1929, Serial No. 374,053. Divided and this application August 30, 1930. Serial No. 477,847
4 Claims. (Cl. 178—6)



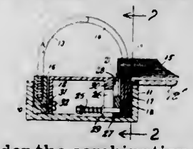
1. In a television system, a scanning or composing member having a plurality of openings therein, a plurality of light sources, reflectors associated with said sources and arranged to project the light therefrom simultaneously through the openings in said member and along diverging lines, and other reflectors arranged to receive the diverging lines of light and to reflect the light in converging lines onto the object or screen.

1,945,969
DETACHABLE RACK FOR TRUCKS
James T. Earle, Cincinnati, Ohio, and Alvin McNeese, Covington, Ky.
Application May 3, 1930. Serial No. 449,540
6 Claims. (Cl. 280—57)



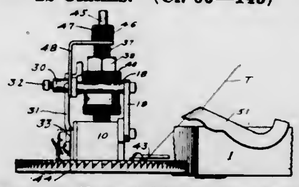
1. In combination a truck body comprising a rail, a rack having a leg provided with a circular opening and a communicating slot of less width than the circular opening, a bored substantially circular rack supporting member of diameter slightly less than that of the circular opening, a flattened portion on the rack supporting member serving to decrease the diameter of a portion of the rack supporting member to permit of entry thereof into the communicating slot and the circular opening, a plate having a perforation therein for receiving the rack supporting member and cooperating to preclude rotational movement of the rack supporting member, and means for securing the plate, rail and rack supporting member against relative movement.

1,945,970
LOOSE LEAF BINDER
Stanley B. Freiberg, Cincinnati, Ohio
Application March 1, 1930. Serial No. 432,468
5 Claims. (Cl. 129—9)



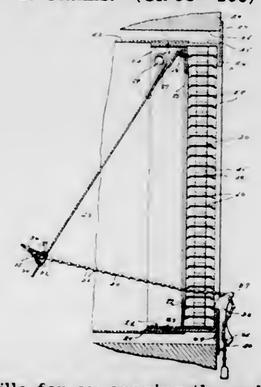
1. In a binder the combination with a rigid unitary back member and a cover leaf extending from the back, of a pair of overlapping opposed sheet supporting arched prongs cooperatively related for together substantially spanning the back to provide a means whereby sheets may be regularly shifted relative the cover leaf from one of the prongs to the other, a bar supported by the binder back and having secured thereto one prong of the pair of cooperative opposed prongs, the associated prong and bar of themselves providing a transferring means for binder sheets, and means for mounting the bar upon a part of the binder back for detachment of the bar in a direction perpendicularly of the binder back.

1,945,971
KNITTING MACHINE
Augustin Gagné, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application March 19, 1930. Serial No. 437,258
12 Claims. (Cl. 66—145)



1. A yarn or thread binder for knitting machines, a rotatable member in association therewith and adapted in one position to rotate with the fabric and during such rotation to carry or direct a thread withdrawn from feeding relation with respect to the needles to a position to be severed and clamped by means included in the binder, said member also being adapted to guide thread to such a position as not to be acted upon by the binder mechanism.

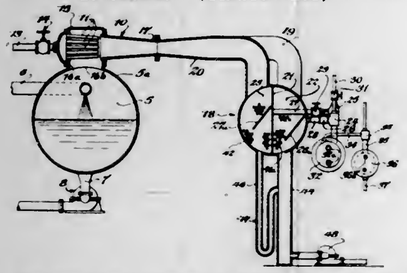
1,945,972
REGISTER AND GRILLE
John A. Germonprez, Grosse Pointe Park, Mich., assignor to Uni-Flo Grille Corporation, Detroit, Mich., a corporation of Michigan
Application September 30, 1931
Serial No. 566,149
13 Claims. (Cl. 98—106)



13. A grille for an opening through which air is discharged comprising a plurality of flat thin strips of material supported side by side in spaced relation one to the other, and parallel to the direction of flow of air therebetween, the strips having integral spaced portions thereof at the discharge edge bent laterally of the plane occu-

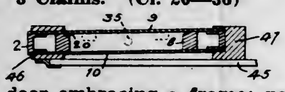
pied by the body of the strips and toward an adjacent strip to provide a diffusing means for the air stream passing between the strips.

1,945,973
VACUUM PRODUCING EQUIPMENT
Harold M. Graham, Buffalo, N. Y., assignor, by mesne assignments, to Ross Heater & Mfg. Co. Inc., Buffalo, N. Y., a corporation of New York (1933)
Application April 1, 1933. Serial No. 663,958
13 Claims. (Cl. 230—103)



1. Vacuum producing equipment including a working chamber, a plurality of ejectors which communicate with said chamber and which are adapted to maintain a vacuum therein, means for condensing the steam which is discharged from said ejectors, said means including a condensing chamber and an auxiliary ejector for maintaining a vacuum in said chamber, and means for individually rendering said first mentioned ejectors operative and inoperative at will, whereby the capacity of the equipment may be regulated as prevailing conditions require.

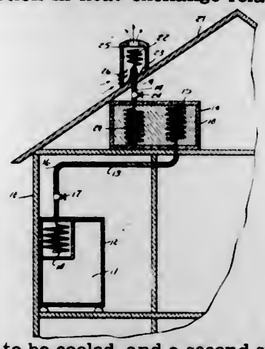
1,945,974
GRAIN DOOR
John Wesley Hiltz, Toronto, Ontario, Canada
Application December 1, 1932. Serial No. 645,279
3 Claims. (Cl. 20—36)



1. A car door embracing a frame; panels secured over said frame one at the inner side thereof and one at the outer side thereof; the said panels being provided at their upper and lower portions with aligned openings; a pair of vertical plates located between said panels and vertically recessed at portions of their inner sides opposite the inner sides of said inside panel thus forming vertical grooves; a door mounted to vertically operate in said grooves and in contact with the outer side of said inside panel; means to move said door to open and close the upper opening in said inside panel; a horizontal cross bar located between said panels and above the lower opening therein, and a door hinged to said cross bar and adapted to open and close the lower opening in said inside panel.

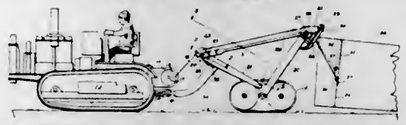
1,945,975
REFRIGERATION
Carl Georg Munters, Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y., a corporation of Delaware
Application December 12, 1929, Serial No. 413,438, and in Sweden March 2, 1929
9 Claims. (Cl. 62—178)

2. Refrigerating apparatus comprising a cold accumulator, said cold accumulator comprising an insulated vessel containing a relatively large body of congealable homogeneous material, a stationary vaporization-condensation member having its upper portion submerged in said body and its lower portion in heat exchange relation with



the medium to be cooled, and a second stationary vaporization-condensation member having its lower portion submerged in said homogeneous body and its upper portion exposed to the atmosphere.

1,945,976
SKIDDING ARCH
Walter H. Nourse and Powers A. Wickes, Portland, Oreg., assignors to Electric Steel Foundry Company, Portland, Oreg.
Application July 16, 1930. Serial No. 468,404
14 Claims. (Cl. 254—166)



5. A skidding arch consisting of a longitudinally triangular trussed frame having one corner of said triangle lowermost, said triangular frame having an arch shaped transverse section, a crawler element attached to each lowermost side of said frame, a tongue at the forward end of said truss member for attaching same to the draw bar of a tractor, a cable winding mechanism mounted above said point of attachment to the tractor, a reaction roll on the forward end of said trussed frame, a fairleading roll at the rearward end of said trussed frame, and a cable from said cable winding mechanism extending upwardly around said reaction roll and downwardly around said fairleading roll.

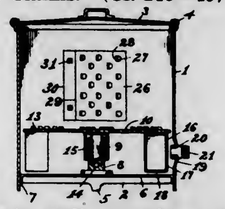
1,945,977
COLOR PHOTOGRAPHY OBJECTIVE
André Oswald, Paris, France, assignor to Keller-Dorian Colorfilm Corporation, New York, N. Y., a corporation of Delaware
Original application March 23, 1925, Serial No. 17,724, and in France February 7, 1925. Divided and this application February 2, 1931. Serial No. 512,817
11 Claims. (Cl. 88—24)



1. An optical combination comprising an objective adapted for copying films in cinematography with films having a goffered base con-

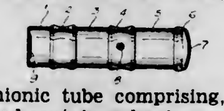
taining a lens system made up of a plurality of different elements having a collimating lens and constructed so as to reproduce on a copy film a separate registration of each of the monochrome registrations representing different colors carried by an original film and a diaphragm unaccompanied with color areas, so arranged that the pupil of emergence of said objective is in the anterior focal plane of the collimator lens.

1,945,978
POTATO PEELING MACHINE
Faustino J. Palombo and Faustino J. Palombo, Jr., Garfield Heights, Ohio
Application October 3, 1931. Serial No. 566,694
2 Claims. (Cl. 146—49)



1. In a potato peeling machine, the combination of a receptacle, a cutter plate, the cutter plate being rotatably supported within the receptacle, blades depending from the cutter plate, a nozzle member extending into said receptacle below said cutter plate, the nozzle member being adapted to be connected to water pressure, and the nozzle member having a horizontal opening for directing the water against said blades and a vertical opening for directing water above said cutter plate and within said receptacle.

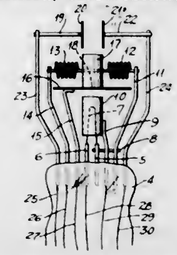
1,945,979
ELECTRON DISCHARGE TUBE
Henry W. Parker, Toronto, Ontario, Canada, assignor to Rogers Radio Tubes, Limited, Toronto, Ontario, Canada, a corporation of Ontario, Canada
Application May 21, 1932. Serial No. 612,763
3 Claims. (Cl. 250—27.5)



1. A thermionic tube comprising, a substantially evacuated container, having walls comprising alternate metallic and vitreous tubular sections and end portions, one of said end portions comprising a metallic cup bearing an electron emissive substance on the interior thereof and adapted to function as a cathode through the direct application of heat to the exterior thereof, the other end portion comprising a cap coated on the interior thereof with a material adapted to be rendered fluorescent through bombardment by electrons and the metallic sections of said tube comprising respectively the grid and anode of said tube.

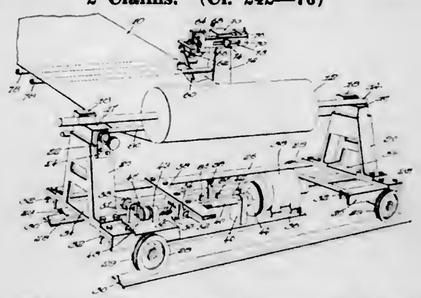
1,945,980
CATHODE RAY TUBE
Henry W. Parker, Toronto, Ontario, Canada, assignor to Rogers Radio Tubes, Limited, Toronto, Ontario, Canada, a corporation of Ontario, Canada
Application July 26, 1932. Serial No. 624,729
4 Claims. (Cl. 250—27.5)

1. A cathode ray tube comprising, a partially evacuated envelope bearing a coating of fluorescent material on the inner surface of one extremity thereof and enclosing, a cathode, a focussing cylinder for said cathode, an anode in the form of a shield, electrostatic ray deflecting



means, and a solenoid positioned between said anode and said fluorescent screen and electrically connected in series within said envelope with said cathode.

1,945,981
APPARATUS FOR HANDLING WEBS OF CLOTH
George B. Quinby, Medford, Mass., assignor to Blake Electric Mfg. Company, Boston, Mass., a corporation of Massachusetts
Application February 4, 1930. Serial No. 425,767
2 Claims. (Cl. 242—76)

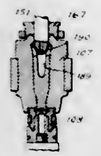


1. Web-handling apparatus comprising a carriage, oppositely-disposed standards upon the carriage, guideways upon which the carriage is mounted for movement in opposite directions, bearings formed on the standards, a web roll, a shaft extending through the roll and having its ends releasably journaled upon the bearings, a stationary motor, and connections between the motor and the carriage including a member moving with the carriage and having an open ended slot and a projection cooperating with the slot for actuating the carriage in opposite directions on the guideways.

1,945,982
MANUFACTURE OF HOLLOW GLASSWARE
George E. Rowe, Wethersfield, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application July 8, 1932. Serial No. 621,350
3 Claims. (Cl. 49—9)

3. In the manufacture of hollow glassware, the method which comprises delivering to an inverted parison mold having a neck portion at its lower end a charge of glass of sufficient size to fill the neck portion of the mold cavity and to extend in contact with the side walls of the mold cavity for only part of the length of the latter, applying air under pressure axially to the upper end of the glass in the mold without subjecting the entire upper end surface of such glass to

said pressure so as to produce an axial cavity in the glass and to force glass of the charge upwardly into contact with the side walls of said mold cavity for substantially the remainder of



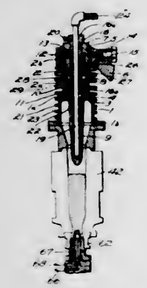
the length thereof, and thereafter introducing blowing pressure into the glass through the neck portion thereof to expand the glass in the mold and to blow out the walls of said cavity in the glass.

1,945,983

METHOD OF AND APPARATUS FOR MANUFACTURING HOLLOW GLASSWARE

George E. Rowe, Wethersfield, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Application March 18, 1933. Serial No. 661,521
14 Claims. (Cl. 49—9)



1. The method of producing a parison for a bottle or like glass article, which comprises the steps if introducing a charge of molten glass into an inverted blank mold having a neck forming portion at its lower end, compacting glass of the charge into the neck forming end of said mold by applying air pressure to the upper surface of the glass in said mold, thrusting a plunger downward into the glass in the mold to displace a portion of it upwardly in the annulus between the plunger and the mold walls, retiring the plunger, and introducing blowing pressure to the interior of the glass in the neck forming end portion of said mold to eliminate the cavity left by the retirement of the plunger and to produce a hollow parison.

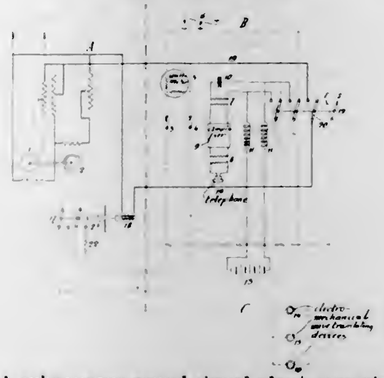
7. In apparatus for forming a glass parison, a mold open at its upper end and having a neck forming portion at its lower end, said mold being adapted to receive a charge of glass, and a unitary device comprising means for applying air under pressure to the surface of the glass in the mold to settle glass of the charge in the neck portion of the mold and means for exerting a downward force on an axial portion of the glass in the mold of less area than that of the complete upper surface thereof to displace glass of the charge upwardly against the walls of a previously unfilled upper end portion of the mold cavity.

1,945,984

ARRANGEMENT FOR PREVENTING CROSS-TALK IN SUBAQUEOUS SOUND INSTALLATIONS

Wilhelm Rudolph and Bernhard Settegast, Kiel, Germany, assignors to Electroacustic Gesellschaft mit beschrankter Haftung, a firm of Kiel, Germany

Application September 23, 1929, Serial No. 394,467, and in Germany October 4, 1928
3 Claims. (Cl. 177—386)



2. A subaqueous sound signal plant comprising an electro-mechanical wave translating device serving as a common submarine sound transmitter and receiver, separate transmitting and receiving circuits mounted closely adjacent to one another and connectible to said translating device, a continuously running and continuously energized alternating current generator included in the transmitting circuit, a sound receiver for aurally perceiving the received waves included in the receiving circuit, a change-over switch for alternately connecting said translating device to said transmitting or receiving circuit, and a cut-off switch located substantially at the generator, and means controlled by said change-over switch for actuating said cut-off switch, for disconnecting the transmitting circuit from all generator terminals closely at the generator on changing over from transmission to reception, whereby during reception the transmitting circuit is prevented from exerting detrimental inductive effects upon the closely associated receiving circuit.

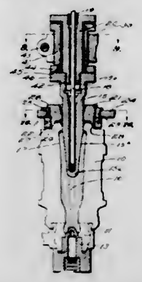
1,945,985

MANUFACTURE OF BOTTLES AND OTHER ARTICLES IN GLASS AND APPARATUS THEREFOR

Arthur Edgar Smith, Kensington, near Sydney, New South Wales, Australia, assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Application September 29, 1932, Serial No. 635,360, and in Australia December 1, 1929
10 Claims. (Cl. 49—9)

10. In the manufacture of an article of hollow glassware by the use of apparatus including a parison mold having an end portion for forming the neck of the article to be made, said end portion being lowermost when the mold receives its charge, and a pin adapted to be projected into said neck forming portion of the mold in spaced relation with the walls thereof and subsequently withdrawn to leave an initial blow aperture in the glass in the neck forming portion of the mold, the method which comprises, applying a funnel to the upper end of the inverted mold to guide a charge of glass for the mold downwardly into the mold cavity, thrusting a plunger downwardly through said funnel into the glass in the mold to displace upwardly a portion of such glass to form an annulus of glass between the plunger and the adjacent walls of the mold and in contact with the latter, withdrawing the plunger to vacate the cavity within said annulus of glass, removing said funnel, applying a baffle to the end of the mold



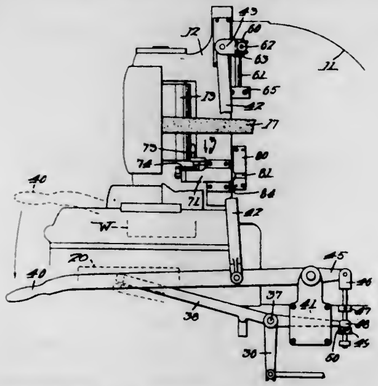
from which said funnel has been removed, and introducing blowing pressure into the initial blow aperture in the glass in the neck-forming end portion of the mold while said annulus of glass in the opposite end of the mold remains in contact with the walls thereof, said blowing pressure acting to obliterate the cavity within said annulus of glass by expanding the glass in the mold into contact with said baffle.

1,945,986

GRINDING MACHINE

Howard E. Tracy, Worcester, Mass., assignor to O. S. Walker Company, Inc., Worcester, Mass,. a corporation of Massachusetts

Application May 12, 1930. Serial No. 451,536
7 Claims. (Cl. 51—131)



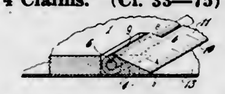
1. In a grinding machine, a frame, a wheel head slidable thereon, a stop to limit downward movement of said head to working position, and a separate locking device additional to said stop and effective to hold said wheel head from upward movement when said head is in working position, said locking device being mounted on said wheel head and having a cam action against a contact member fixed on said frame, by which cam action said head is securely held at its extreme limit of downward travel as determined by said stop.

1,945,987

DRAFTING DEVICE OR UTILITY

Rodney B. Ware, Scituate, Mass.

Application June 10, 1932. Serial No. 616,394
4 Claims. (Cl. 33—75)



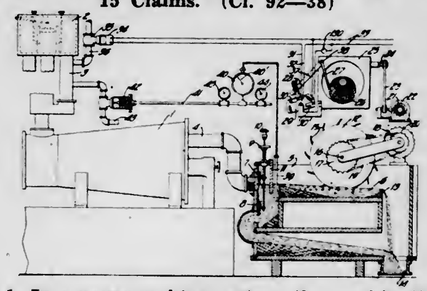
3. A drafting instrument, having a part pivotally attached to an edge thereof for movement into planes that co-incide with the opposite surfaces of the instrument, said part having graduations on its adjacent surfaces, the part being triangular in cross section and the graduations being located at or near the edge thereof farthest removed from the edge of said drafting instrument.

1,945,988

FREENESS INDICATOR AND RECORDER

George Stanford Witham, Jr., Lincoln, N. H.

Application June 28, 1932. Serial No. 619,729
15 Claims. (Cl. 92—38)



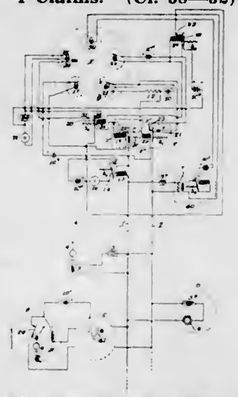
1. In a paper making system, the combination with means for the preparation of paper stock, of means for maintaining said stock at a substantially uniform consistency while undergoing preparation, and means for indicating the freeness thereof.

1,945,989

ELECTRICALLY CONTROLLED CLOCK

Constant Battegay, Levallois-Perret, France, assignor to Societe Anonyme des Ateliers Brillie Freres, Levallois-Perret, Seine, France, a corporation of France

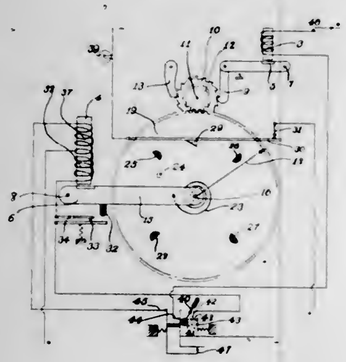
Application February 28, 1931, Serial No. 519,113, and in France March 6, 1930
4 Claims. (Cl. 58—32)



1. In an electrically controlled clock system comprising a master clock and a series of second-

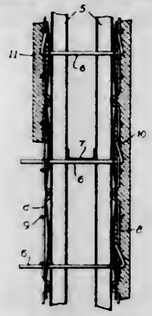
ary clocks a single circuit connecting the clocks; automatic synchronizing means for the secondary clocks operated by the master clock; clock setting mechanism also connected in the circuit to be operated by the master clock; and automatic means operable by the master clock to periodically interrupt the circuit to the synchronizing means while the clock setting means is functioning.

1,945,990
TIME METER
Constant Battegay, Levallois-Perret, France, assignor to Societe Anonyme des Ateliers Brillie Freres, Levallois-Perret, Seine, France, a corporation of France
Application May 22, 1931, Serial No. 539,311, and in France June 6, 1930
7 Claims. (Cl. 161—19)



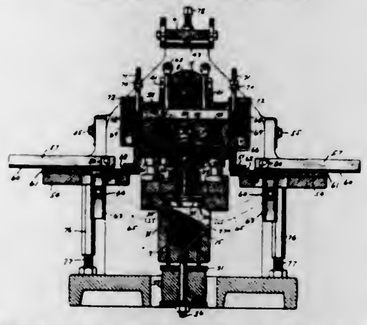
1. A time meter chiefly for timing telephone conversations, comprising a driving gear, a driven gear mounted for rotation, a pointer movable with and operable by the driven gear to indicate elapsed time of operation, means tending to normally maintain the pointer in zero position, a carrier supporting both the driven gear and the pointer for movement to bring the driven gear into or out of mesh with the driving gear, a time controlled circuit including electromagnetic means for intermittently actuating the driving gear for timed operation, a carrier setting circuit including electromagnetic means for moving the carrier into a position to cause the driven gear to mesh with the driving gear, a maintaining circuit including electro magnetic means for maintaining the carrier with the gears in mesh, and current switching means associated with said circuits, said current switching means embodying a controlling member for simultaneously closing the time controlled circuit and the setting circuit, while the maintaining circuit is closed at said member, for the purpose of bringing the driven gear into mesh with the driving gear and for simultaneously causing the driving gear to be periodically actuated by the time controlled circuit, and said controlling member being operable to break both the time controlled circuit and the setting circuit, while leaving the maintaining circuit closed at said member, and to thereafter break the maintaining circuit at said member, and a switch included in the maintaining circuit and controlled by the carrier to close the maintaining circuit while the driven gear is in mesh with the driving gear.

1,945,991
WALL STRUCTURE
Edward L. Benedict, Oakmont, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 8, 1931. Serial No. 567,598
2 Claims. (Cl. 72—115)



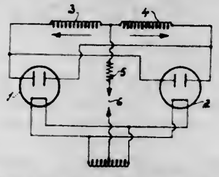
1. Wall structure comprising a plurality of pairs of upright channel members, the members of each pair being disposed in side-by-side relation and with their webs in a common plane, tie rods welded to the flanges of each pair of members, reinforcing mesh disposed against the exposed surfaces of the said members, the ends of said rods extending through and bent back on the mesh, horizontally-extending bars extending between the channel members of each pair and resting upon the tie rods, and a plastic facing material imbedding said mesh and bent back ends.

1,945,992
AUTOMATIC POWER PRESS
Kinderman M. Boblett and Arthur G. Vogt, Toledo, Ohio
Application September 1, 1930. Serial No. 479,112
13 Claims. (Cl. 164—21)



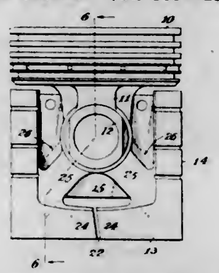
1. In a power press, a main frame, a pair of reversely disposed crank shafts mounted therein and interconnected for unison rotation, a pair of cooperative die carrying members, one mounted on each crank shaft for unison actuation, an intermediate sliding connection between the die carrying elements whereby they are maintained in alinement during their relative travel movements, a stock gripper plunger yieldingly mounted upon one of the die carrying members and movable therewith, a complementary stock gripper member slidingly mounted upon the main frame and operatively connected with one of the die carrying members for unison movement therewith, said gripper members engaging the stock in the course of the cycle of operation in advance of the engagement therewith of the die members carried by said die carrying elements and serving to move the stock in unison with the movement of the die carrying members.

1,945,993
ALTERNATING CURRENT RECTIFYING INSTALLATION
Johannes Gysbertus Wilhelm Mulder, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a limited-liability company of the Netherlands
Application April 14, 1928, Serial No. 270,129, and in the Netherlands May 25, 1927
6 Claims. (Cl. 175—363)



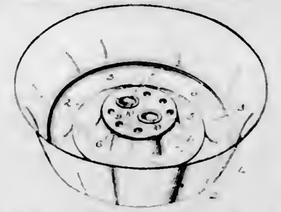
1. A rectifying system for alternating currents, comprising a source of alternating current, a load, two gasfilled rectifier tubes, the ignition voltages of which are higher than the operating voltages, each tube comprising an anode and an incandescible cathode, and a circuit including a source of alternating current, the load, and the two tubes in parallel connection, those electrodes of the two said tubes which have the same characteristics being connected together, only one of said tubes being in operation at a time, the other tube coming into operation upon the failure of the first tube.

1,945,994
PISTON
Adolph L. Nelson, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich.
Application August 15, 1928. Serial No. 299,720
14 Claims. (Cl. 309—13)



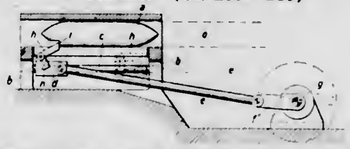
7. A piston comprising a head formed of lightweight material, piers depending from the head, cylinder-bearing portions on opposite sides of the piston and a pair of struts of material less expansible than the material of the head, the struts extending between the cylinder-bearing portions, there being an interior homogeneous tie between each cylinder-bearing portion and each pier and extending at a downward angle between the vertical and the horizontal along the inner side of a strut, and an exterior homogeneous tie between each cylinder-bearing portion and each pier and extending at a downward angle between the vertical and the horizontal along the outer side of a strut, the interior ties being of a cross sectional size different from that of the exterior ties.

1,945,995
BOWL
Henry M. Quackenbush, Herkimer, N. Y.
Application November 2, 1932. Serial No. 640,867
8 Claims. (Cl. 65—15)



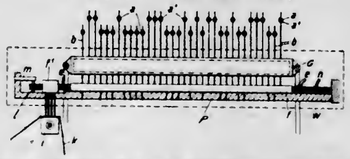
7. In a receptacle for nuts and fruit, the combination of a metallic bowl having a hollow post extending upwardly from the bottom thereof, said post being open at its lower end and the upper end substantially closed; a block located within said post, said block and the upper end of the post having aligned openings therein for the reception of desired instrumentalities; and a finish plate secured to the under face of the bowl and extending beneath the lower open end of the post and the lower end of the block.

1,945,996
DRIVING ARRANGEMENT FOR SHUTTLES, ESPECIALLY LOOP SHUTTLES
Rudolf Rossmann, Solln, near Munich, Germany, assignor to TEFAG Textil Finanz A.-G., Zurich, Switzerland, a corporation of Switzerland
Application March 6, 1931, Serial No. 520,629, and in Germany March 6, 1930
5 Claims. (Cl. 139—160)



1. A shuttle driving arrangement comprising a reciprocable element, a means on said element oscillatable relatively thereto for engaging and driving a shuttle, and means for imparting a reciprocating motion to said element.

1,945,997
DEVICE FOR CONTROLLING THE WARPS FOR FIGURING FABRICS
Rudolf Rossmann, Solln, near Munich, Germany, assignor to TEFAG Textil Finanz A.-G., Zurich, Switzerland, a corporation of Switzerland
Application March 6, 1931, Serial No. 520,630, and in Germany March 6, 1930
7 Claims. (Cl. 139—59)



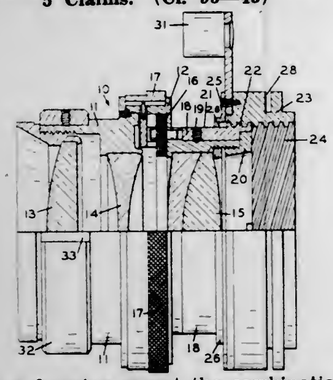
1. In a device for controlling the warp shed in figured fabric weaving, a needle frame, a plurality of heddle needles movably positioned in said frame, a plurality of superposed perforated strips adjacent said frame, means for moving said frame and strips toward each other, whereby certain given needles are inserted into the per-

forations of said strips, resilient means permitting displacement of said needles in said frame and returning the same to their normal position in said frame, and means for moving said strips relatively to each other and to said needles for changing the position of said perforations relative to said needles.

1,945,998
COATING COMPOSITION
Erik Rotheim, Oslo, Norway
No Drawing. Original application November 12, 1928, Serial No. 318,878, and in Norway October 8, 1926. Divided and this application April 20, 1932. Serial No. 606,469
5 Claims. (Cl. 134—79)

1. Coating composition comprising a non-volatile coating material and a liquefied gaseous compound containing a hydrocarbon radical dissolved in the material in a quantity sufficient to produce a solution saturated with the gaseous compound at a pressure of several atmospheres at ordinary temperature, the said composition being maintained under pressure in a confined space.

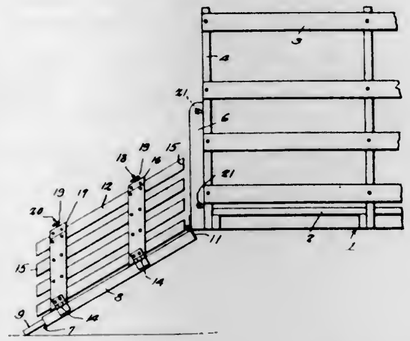
1,945,999
FOCUSING LENS MOUNTING
John C. Sabel, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application May 18, 1933. Serial No. 671,681
5 Claims. (Cl. 95—45)



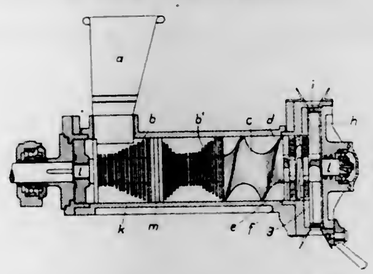
1. In a focusing mount the combination of a barrel member carrying lenses, said barrel having a threaded portion, a rotatable nut member having an internal threaded portion engaging the threaded portion on said barrel, one of said members having a surface above which its threads extend, the other member having a stop adapted to contact with said threads to limit the relative movement of said members.

1,946,000
STOCK RACK
George B. Samuels, Burlington, Kans.
Application January 16, 1933. Serial No. 652,086
2 Claims. (Cl. 296—61)

1. A vehicle comprising a wall having an opening, a chute including a base, hinge means carrying one end of the base at the lower end of the opening, wings hinged to the base, means for maintaining the wings erected to form the sides of the chute when the base is in an inclined position, the last-specified means comprising a connection on each wing, and a first keeper on the opposite wing, wherewith the connection is releasably engaged, and second keepers on said wall of the vehicle, the connection engaging the second keepers, and the first keepers being received upon the second keepers, between the connections and the vehicle wall, when the base is swung upwardly into approximate parallelism with said wall and when the wings are swung outwardly into approximate parallelism to said wall.



1,946,001
MACHINE FOR MAKING DOUGH FROM CEREALS OR THE LIKE
Martin Schaul, Frankfort-on-the-Main, Germany, assignor to Novopan Studiengesellschaft Zur Herstellung besseren und billigeren Brotes m. b. H., Frankfort-on-the-Main, Germany, a firm
Application July 27, 1932, Serial No. 625,138, and in Germany June 7, 1932
2 Claims. (Cl. 146—182)



1. A machine for making dough from grainy cereals comprising a casing, a shaft journalled in said casing, a plurality of groups of cutters keyed to said shaft in spaced relationship and shaped so as to constitute in their group totality, helical bodies, a corresponding plurality of combs or reeds composed of stationary parallel blades engaging in the interstices between the said cutters, a screw conveyor in the said casing in the rear of the last group of cutters, a star-shaped cutter and a cooperating stationary perforated disk at the outer end of said screw conveyor, the cutter being disposed between the disk and the outer end of the screw conveyor, and a second rotary cutter and a cooperating stationary perforated disk disposed outwardly of said first mentioned cutter and disk, said second mentioned cutter being disposed between said disks.

1,946,002
AGE-RESISTING VULCANIZED RUBBER PRODUCT
Robert L. Sibley, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a corporation of Ohio
No Drawing. Application April 15, 1931
Serial No. 530,438
20 Claims. (Cl. 18—50)

1. The process of vulcanizing rubber which comprises heating rubber and sulfur in the presence of an anti-oxidant obtained by condensing substantially two molecular proportions of an aromatic primary amine with substantially one molecular proportion of a reaction product of substantially two molecular proportions of a naphthol and substantially one molecular proportion of an aldehyde containing more than three and less than eight carbon atoms.

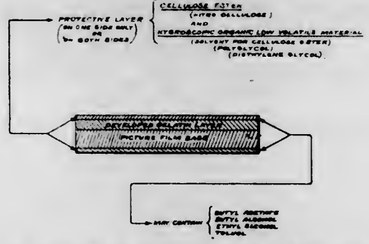
1,946,003
TREATMENT OF LATEX
Robert L. Sibley, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a corporation of Ohio
No Drawing. Application March 23, 1933
Serial No. 662,393
24 Claims. (Cl. 18—50)

1. The process of treating latex characterized by the employment of a soluble salt of a sulfuric acid derivative of the reaction product of an alcohol and a hydroxy substituted diaryl.

1,946,004
PROTECTED MOTION PICTURE FILM AND METHOD OF MAKING SAME
Lawrence L. Steele, Washington, D. C., assignor to The Essem Laboratories, Incorporated, Washington, D. C., a corporation of Maryland
No Drawing. Application February 28, 1929
Serial No. 343,567
15 Claims. (Cl. 91—69)

1. A motion picture film having a polyglycol incorporated in the gelatin layer thereof.

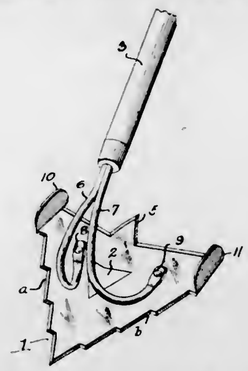
1,946,005
COATED MOTION PICTURE FILM
Lawrence L. Steele, Washington, D. C., assignor to The Essem Laboratories, Incorporated, Washington, D. C., a corporation of Maryland
Application February 28, 1929. Serial No. 343,568
10 Claims. (Cl. 88—19.5)



1. A developed motion picture film having a protective coating comprising a cellulose ester and a hygroscopic organic material of low volatility.

1,946,006
UNIVERSAL WEEDING IMPLEMENT
Frederick Struckmeyer, Dallas, Tex.
Application July 18, 1932. Serial No. 623,190
2 Claims. (Cl. 97—68)

1. In a weeding implement a triangular blade having two of its sides with modified cutting teeth, the rear side beveled to produce a cutting edge entirely across the rear, guards on two sides of said blade, said guards terminating adjacent the first modified tooth near the rear side of the blade,



a centrally disposed triangular shaped incision to facilitate removal of loose earth from the top of the blade, a resilient looped prong with diverging ends secured to said blade and having a shank to be fitted to a handle, and a handle.

1,946,007
GOLF CLUB
Samuel E. Watson, Chanaral, Chile
Application October 27, 1931. Serial No. 571,380
8 Claims. (Cl. 273—80)



1. A golf club of the character described comprising a head having a shank, an elongated shaft having an outstanding flange on the lower end thereof, a tubular securing member having a shoulder on the interior thereof engaging the flange, said securing member telescoping the abutting ends of the shank and the shaft, and cushion means between the shoulder and the flange and between the flange and the shank.

1,946,008
ADJUSTABLE DAMPER
Ben W. White, Blytheville, Ark.
Application May 3, 1932. Serial No. 608,967
5 Claims. (Cl. 126—288)

1. A device as set forth comprising a boxing open at the top and bottom, a damper and means for rockably mounting the damper within the boxing, said boxing including a plurality of L-

shaped wall members, and means for securing the wall members in overlapping position whereby to adjust the boxing relative to length and width.



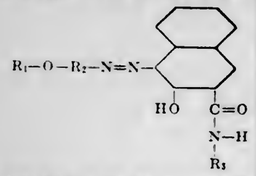
1,946,009
WINDSHIELD CLEANER
Jacob Besson, Stockton, Md.
Application February 15, 1933. Serial No. 656,929
6 Claims. (Cl. 15—250)



1. In a wind-shield wiper, wherein is provided an arm mounted to oscillate in a plane substantially parallel to the wind-shield glass; a support having shaft bearings spaced apart, a rocking shaft journalled in said shaft bearings, a squeegee including a holder paralleling said shaft and a rubber body carried by said holder and having a rib to engage the surface of the wind-shield glass, means to secure said squeegee body tightly to said shaft, and a flat two-edged blade held between said shaft and said squeegee holder and located in a plane at right angles to said squeegee rib.

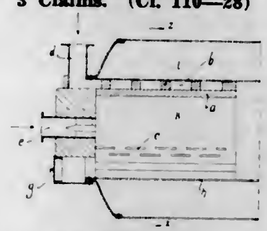
1,946,010
AZO-DYESTUFF AND PROCESS OF MAKING SAME
Gérald Bonhôte, Basel, Switzerland, assignor to firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application May 8, 1933, Serial No. 670,034, and in Switzerland May 10, 1932
11 Claims. (Cl. 260—95)

1. The azo-dyestuffs of the general formula



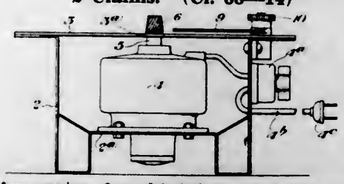
wherein R_1 stands for an aryl nucleus of the benzene series or an aralkyl radical, R_2 for an aryl nucleus of the benzene series, and R_3 for an aryl nucleus of the benzene or naphthalene series, wherein further the oxygen atom and the nitrogen atom of the two substituents of the benzene nucleus R_2 stand in ortho-position to each other, and wherein at least one of the two radicals R_1 and R_2 contains a COOX-group in which X means alkyl, which products are orange to red and brown powders, dissolve in pyridine to orange-red and blue-red solutions, and yield when produced on textiles, orange to red and blue-red tints of very good properties of fastness which tints are particularly characterized by their purity.

1,946,011
COAL DUST FURNACE
Eugen Burg, Essen, Germany
Application September 29, 1931, Serial No. 565,734, and in Germany October 24, 1930
3 Claims. (Cl. 110—28)



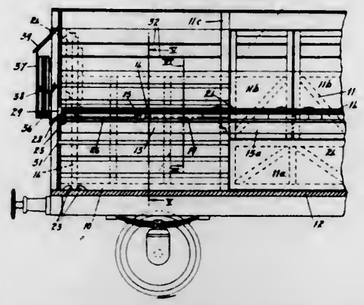
1. In a coal dust furnace, a horizontal flue, a transversely slotted cylindrical refractory lining within the front part of the flue, the interior of the lining forming a combustion space for fuel mixtures, said lining having a longitudinal section cut away forming a channel extending the full length of the lining for the collection of clinkers, means at the front end of the channel for the removal of clinkers in the channel, refractory bricks in spaced apart relation around the lining, a jacket bearing against the bricks enclosing the same and the refractory lining, part of said jacket forming the floor of the channel, said jacket forming also secondary air admission spaces with the bricks and the lining and means in connection with the jacket for supplying air to said secondary air admission spaces.

1,946,012
APPARATUS FOR OBTAINING AN AVERAGE OF READINGS ON CIRCULAR CHARTS
Earl R. Burgher, Cleveland, Ohio
Application February 25, 1933. Serial No. 658,607
2 Claims. (Cl. 88—14)



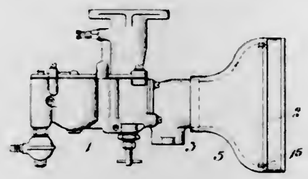
1. Apparatus for obtaining a mean average of readings on a circular chart comprising a support, a stationary plate having a centrally disposed aperture mounted on said support, a rotatable shaft associated with said support and extending through said aperture, means associated with said shaft for supporting a circular chart adjacent said plate, means for rotating said shaft, a hand-rest arranged for pivotal movement across the face of said chart, and means for locking said hand-rest against movement.

1,946,013
PLURAL DECK VEHICLE BODY
James Campbell, Doune, Scotland, assignor to Archibald Fraser, Glasgow, Scotland
Application February 18, 1933, Serial No. 657,393, and in Great Britain January 15, 1932
15 Claims. (Cl. 119—9)



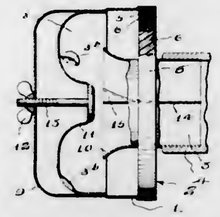
1. A vehicle body having a doorway in one of its upright walls, a partition, means for pivotally supporting said partition substantially midway between its ends upon a horizontal axis situated at a distance above the floor of the vehicle, thereby to enable the partition to be swung from a horizontal to an upright position, and for sustaining the partition in a horizontal position to form an upper deck, and means for sustaining said partition in any one of a plurality of vertical positions, said pivotal supporting means permitting movement of the partition towards and against one upright wall of the vehicle body when the partition is turned out of a horizontal position.

1,946,014
BACK FIRE TRAP FOR INTERNAL COMBUSTION ENGINES
Orson A. Carnahan, Syracuse, N. Y.
Application May 22, 1930. Serial No. 454,800
2 Claims. (Cl. 123—142)



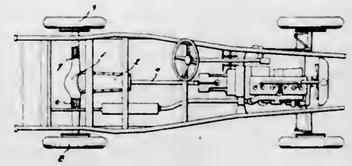
1. A back fire trap for internal combustion engines comprising a body for attachment to the air intake of the carburetor of the engine, the body being open at one end for the intake of air and the outlet of back fire gases and having a tubular outlet at its other end connectible to the intake of the carburetor, the open intake end being of greater diameter than the tubular outlet, means in the intake opening for cooling the back fire gases, the walls of the body between the intake end and the tubular outlet curving in an outward curve from the intake end toward the tubular outlet to the intermediate part of the body and then curving in an inward reverse curve to the entrance of the tubular outlet forming a venturi, whereby the air is directed in stream lines from the intake of the body to the tubular outlet leading to the carburetor.

1,946,015
COMBINED BACK FIRE TRAP AND AIR CLEANER FOR INTERNAL COMBUSTION ENGINES
Orson A. Carnahan, Syracuse, N. Y.
Application September 4, 1930. Serial No. 479,720
7 Claims. (Cl. 123—142)



1. In an air intake and back fire trap for internal combustion engines, the combination of a casing having an inlet, and an outlet arranged concentric with the axis of the casing, the outlet being less diameter than the inlet, the inlet being formed throughout its area with passages, the walls of which provide heat exchanging surfaces for cooling back fire gases, said passages being inclined to give a whirling action in one direction to the incoming air, a curved deflector wall arranged opposite to the inlet and arranged to deflect the incoming currents inwardly toward the center of the casing and into the outlet, said deflector wall following stream lines, whereby the currents converge venturi fashion from the outer wall of the casing inwardly into the outlet, the deflector having openings therethrough for separating dust from the air, a closed dust collector communicating with said openings, said outlet being of less diameter than the intake.

1,946,016
MOTOR VEHICLE DRIVE MECHANISM
Alexander S. Diack, Detroit, Mich.
Application March 7, 1932. Serial No. 597,387
9 Claims. (Cl. 74—6)

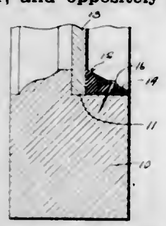


1. A motor vehicle drive mechanism including a rotatable shaft, and means tending to shunt energy imparted to the shaft whereby the thrust to the tires of the vehicle will be checked and made more constant, including springs carried by the shaft at diametrically opposite sides thereof, weights carried by said springs, and means adjustable longitudinally of the shaft to regulate the tension of said springs.

1,946,017
WINDOW PANE SEAL
Harry C. Ennis, Flin Flon, Manitoba, Canada
Application October 25, 1932. Serial No. 639,498
5 Claims. (Cl. 20—56.4)

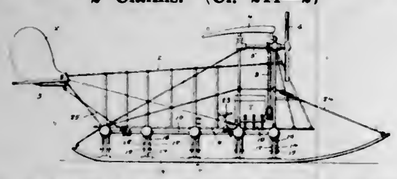
1. A window pane sealing and securing means comprising an elongated rubber sealing member triangular in cross section, a V-shaped shield and

compressing member engaging two sides of the sealing member, and oppositely directed means



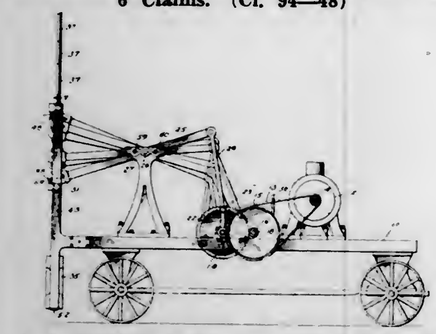
projecting into the sealing member for securing the member to the sealing member.

1,946,018
SLEIGH
Ole Fredrickson, Great Falls, Mont.
Application February 1, 1933. Serial No. 654,731
2 Claims. (Cl. 244—2)



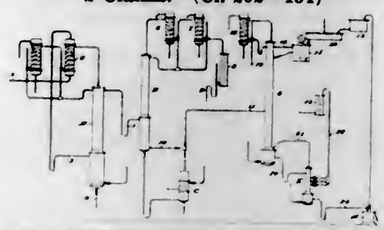
1. A device of the character set forth, comprising a fuselage frame, aerial steering means on said frame, propellers carried by said frame, an engine adjustably supported on the frame, endless belts between the engine and the propellers, runners pivotally connected to the frame, and means for tilting the runners and simultaneously actuating the aerial steering means.

1,946,019
TAMPING APPARATUS
William Gilmore, Meridian, Miss.
Application February 10, 1932. Serial No. 592,172
6 Claims. (Cl. 94—48)



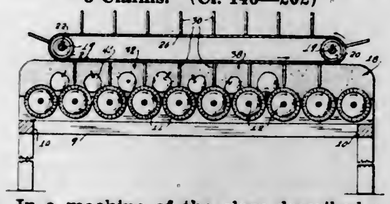
1. A tamping machine comprising a frame, a walking beam pivotally mounted on said frame, means for rocking said walking beam, said walking beam having a free end, a clutch mechanism mounted securely to said free end, guide members pivotally secured to said frame, a tamp having a shaft extending therefrom slidably mounted in said guide members, said shaft extending through said clutch mechanism, said clutch mechanism adapted to grip said shaft upon the upward movement of the free end of the said walking beam and in turn raise said tamp, said clutch mechanism adapted to release said tamp at the end of the upward movement, said guide members adapted to hang in a vertical plane.

1,946,020
APPARATUS FOR PRODUCING ANHYDROUS ETHYL ALCOHOL DIRECTLY FROM MASHES AND THE LIKE
Adolf Gorhan, Liesing, near Vienna, Austria, assignor to Deutsche Gold- und Silber ScLeideanstalt vormals Roessler, Weissfrauen, Frankfort-on-the-Main, Germany
Application June 14, 1932, Serial No. 617,161, and in Germany October 2, 1931
2 Claims. (Cl. 202—154)



1. Apparatus for obtaining anhydrous alcohol continuously from mashes, worts or spent sulphite liquors by distillation followed by dehydration, comprising in series communication a distillation column in which the concentration of the ethyl alcohol in the raw material is raised to from 60 to 90 per cent by weight, a second column into which the head product of the first column is passed and from which acetaldehyde, ethyl acetate and similar readily volatile impurities are driven off, a dehydrating column and means to pass vapors from the second column to the dehydrating column in counter-current to an alcoholic solution of dehydrating agent, means for condensing the purified and dehydrated alcohol vapour passing out at the top of the dehydrating column, means for subjecting the liquor withdrawn from the foot of the dehydrating column to a de-alcoholizing action whereby the aqueous dehydrating agent is freed from remaining alcohol which is returned to the dehydrating column and from fusel oil which is collected separately, and means for heating the dehydrating agent to anhydrous form, dissolving it in absolute alcohol, and returning it to the dehydrating column.

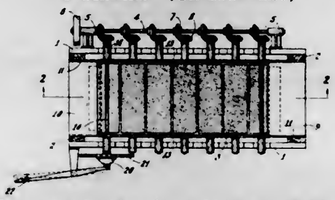
1,946,021
MACHINE FOR CLEANING FRESH FRUIT AND THE LIKE
Lloyd E. Jones, Santa Monica, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application June 1, 1929. Serial No. 367,666
8 Claims. (Cl. 146—202)



1. In a machine of the class described a plurality of parallel closely spaced brushes providing a horizontal article brushing surface extending transverse to the axis of the brushes, means for revolving said brushes co-ordinately all in the same direction; said brushes providing grooves, one between each pair of adjacent brushes; said brushes of such proportion that each groove will hold an individual article so that the brushes are incapable normally of moving the article from

such groove, resilient means at each side of such surface to retain an article thereon, a plurality of pusher pads spaced apart approximately the spacing of said brushes, and means for moving said pusher pads in such spaced arrangement above said surface in the direction of travel of the upper surfaces of said brushes; two adjacent pads coacting with corresponding parts of the retaining means and with corresponding portions of the article carrying surface to provide an individual traveling pocket; the axis of each brush being fixed.

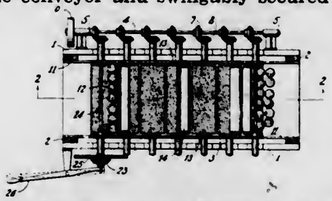
1,946,022
CLEAN OUT MECHANISM FOR FRUIT TREATING APPARATUS
Lloyd E. Jones, Santa Monica, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application March 31, 1931. Serial No. 526,588
8 Claims. (Cl. 198—127)



1. In an apparatus for treating rollable articles such as fruit and the like, a conveyor over which which said articles are normally advanced while undergoing treatment at a speed determined by the rate said articles are fed thereto comprising a plurality of substantially cylindrical supporting elements arranged transversely of the path of said articles and in parallel relation so as to form article holding troughs therebetween, means for rotating said supporting elements in a common direction, said supporting elements being of such proportions relative to the size of articles being conveyed that such articles cannot be urged out of the troughs by the tractive effect of said elements alone but may be displaced therefrom by such tractive effect when augmented by the influence of additional articles deposited therein, article advancing means mounted for traversing movement over the conveyor to advance articles therealong, and disposable out of the path of articles on the conveyor so they may pass freely thereover, means for driving said article advancing means and means operable at the will of an operator for controlling said article advancing means to position the same in inoperative position out of the path of articles on the conveyor so they may pass freely thereover.

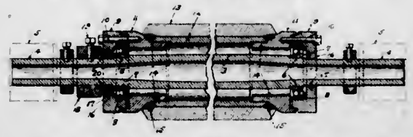
1,946,023
CLEAN-OUT MECHANISM
Lloyd E. Jones, Santa Monica, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application April 15, 1931. Serial No. 530,395
11 Claims. (Cl. 198-127)

1. In an apparatus for treating rollable articles such as fruit and the like, a conveyor over which said articles are normally advanced while undergoing treatment at a speed determined by the rate said articles are fed thereto comprising a plurality of substantially cylindrical supporting elements arranged transversely of the path of said articles and in parallel relation so as to form article holding troughs therebetween, means for rotating said supporting elements in a common direction, said supporting elements being of such proportions relative to the size of articles being conveyed that such articles cannot be urged out of the troughs by the tractive effect of said elements alone but may be displaced therefrom by such tractive effect when augmented by the influence of additional articles deposited therein, a carrier mechanism disposed above the conveyor, a pusher member depending from said carrier mechanism into the path of articles passing over the conveyor and swingably secured there-



to for displacement both forwardly and rearwardly to permit the free passage thereunder of articles passing over the conveyor at a speed in excess of that of the pusher member, and to cause the advance of said articles when their speed of advance falls below that of the pusher member by increased traction effected by the pressure of the pusher member passing over said articles, and means for operating the carrier mechanism to move the pusher member along the conveyor.

1,946,024
INKING ROLLER
Frederick Lamatsch, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York; Irving Trust Company, receivers
Application June 18, 1931. Serial No. 545,330
3 Claims. (Cl. 308—190)

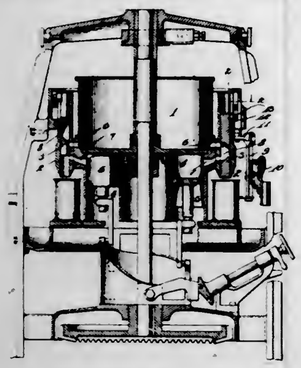


1. In an inking roller, a supporting shaft, antifriction bearing races in spaced relation on said shaft, a cylinder enclosing said shaft, a head for each end of said cylinder, each head having an annular recess in its outer end disposed outwardly beyond the ends of said cylinder, a cap for each head, an annular projection on each cap engaged in the recess of its adjacent head, seats in said caps for said bearing races, said races disposed between said heads and caps, and means for detachably securing said caps to said heads.

1,946,025
FILLING MACHINE
Harold R. Lewis, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application September 30, 1931
Serial No. 566,113
1 Claim. (Cl. 226—103)

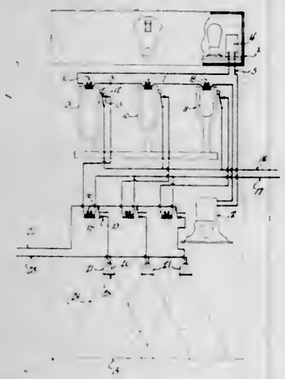
An apparatus for measuring and delivering a flowing material to a positioned container comprising a tank for a supply of material, a measuring chamber and a sliding cut-off valve, the tank, chamber and cut-off valve having passages which are adapted to communicate to form a passageway from the tank to the chamber, the end of said passageway adjacent said chamber being always open and having a downwardly in-

clined wall so that residue material remaining in said aperture after passing a measured charge



of material into a container will flow back into said measuring chamber.

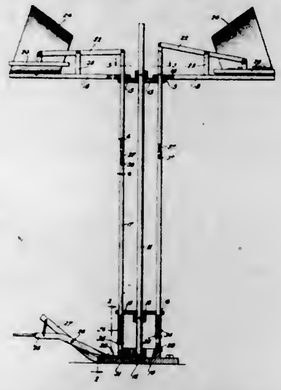
1,946,026
COLOR PRODUCING DEVICE
William Turnor Lewis and George Thomas, Racine, Wis.; said Thomas assignor of three-eighths to said Lewis
Application May 6, 1929. Serial No. 360,884
5 Claims. (Cl. 84—464)



1. A device adapted to be controlled from a music reproducing apparatus, said device comprising means for producing colored lights, and means adapted to mechanically vibrate at an audible frequency for automatically blending said lights in accordance with the said music.

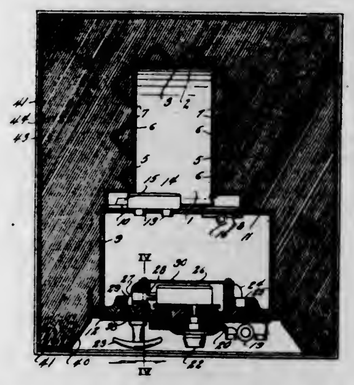
1,946,027
CLAMPING MECHANISM
William J. Lowe, Chicago, Ill., assignor to Sarah B. Welker, doing business as Welker Die & Machine Works, Chicago, Ill.
Application March 14, 1932. Serial No. 598,653
4 Claims. (Cl. 144—290)

1. A turret clamping device comprising a base, a shaft rotatable on the base, push rods mounted to rotate with the shaft and adapted to move axially, clamping devices extending radially of the shaft and actuated by the push rods, a treadle on the base adapted to move the push rods one at a time to actuate the clamping devices, means for retaining the clamping devices in clamping position while the shaft is rotated,



and means on the treadle for imparting initial rotary movement only to the shaft.

1,946,028
SAFE
Charles F. Meilink, Toledo, Ohio
Application February 25, 1932. Serial No. 595,183
3 Claims. (Cl. 109—1)



1. A security box having a primary wall, an additional sectional wall of parallel independent outwardly extending V-shaped ribs, each rib comprising a pair of legs abutting the box and converging in their extent therefrom, and embedding means for the box and ribs.

1,946,029
REFRIGERATION APPARATUS
Wilbur G. Midnight, Cleveland, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application August 22, 1931. Serial No. 558,747
17 Claims. (Cl. 62—5)
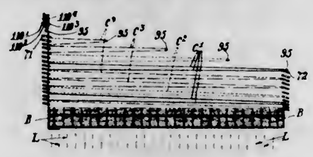
1. In absorption refrigeration apparatus, means for heating the generator-absorber, thermostatic means for controlling said heating means, a receptacle in communication with the generator-absorber end of the refrigeration system and adapted to be flooded with liquid therefrom, said thermostatic means being in heat exchanging relation to the contents of said receptacle, and

connections whereby the liquid contents of said receptacle, are displaced by refrigerant gas re-



turning from the receiver-evaporator end of the system to the generator-absorber end thereof.

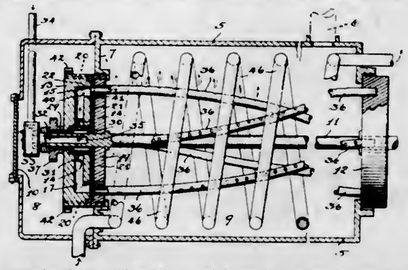
1,946,030
MANUFACTURE OF FABRICS OF VARIOUS KINDS BY NEEDLE ACTION
James Morton, West Lothian, Scotland
Application January 30, 1932, Serial No. 589,827, and in Great Britain February 27, 1931
21 Claims. (Cl. 66—85)



18. A machine for manufacturing fabrics comprising needles on a movable support, said needles being formed with hooks, tongues on a separately movable support, each tongue being in sliding relationship with a needle, means for guiding a supply of threads to the needles, means for moving said needles' support towards and away from said guiding means, additional means for sliding said tongues along said needles so that the needles and tongues receive the following differential movements, namely, the needles advance for the hooks to engage the threads and to guide previously formed loops in said threads away from the hooks, the tongues advance to receive said loops, the needles withdraw to form the engaged threads into new loops and then the tongues withdraw with the hooks to cast-off the previously formed loops, which thus become parts of chains of loops, and means for traversing the thread-guiding means across a plurality of needles whereby the chains of loops are interconnected to form a fabric.

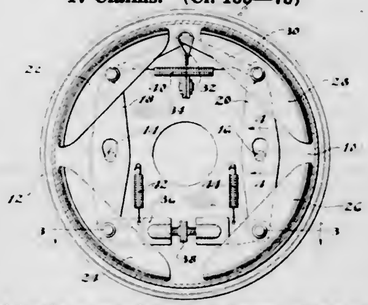
1,946,031
LIQUID HEATER
Herbert R. Oliver, Baltimore, Md.
Application June 29, 1931. Serial No. 547,670
5 Claims. (Cl. 158—104)

1. A burner for liquid heaters comprising two spaced apart heads one of which has radial fluid fuel passages therein, perforated burner tubes extending from the fuel passages of the one head to and suported by the other head and means



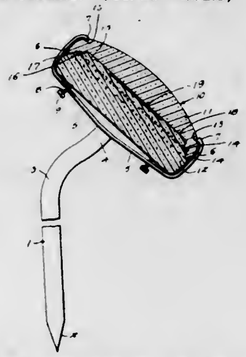
for controlling the flow of fuel to a varying number of said tubes.

1,946,032
BRAKE
Humphrey F. Parker, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application November 24, 1930
Serial No. 497,651
17 Claims. (Cl. 188—78)



1. A brake comprising two levers, shoes pivoted to the levers, an adjusting member pivoted between the levers and an operating member between the levers, together with anchorage means acting on the levers and taking the torque of said shoes.

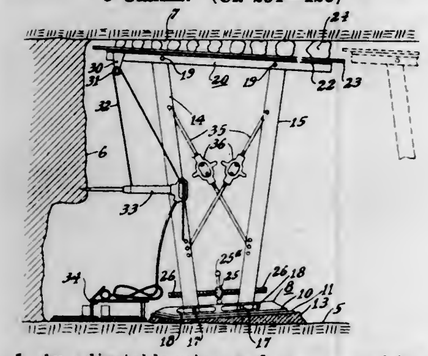
1,946,033
GRAVE MARKER
Harry F. Potter, Waterloo, Ind.
Application August 31, 1933. Serial No. 687,700
12 Claims. (Cl. 40—124.5)



12. A marker, comprising two superimposed bodies, one of the two opposing sides of said

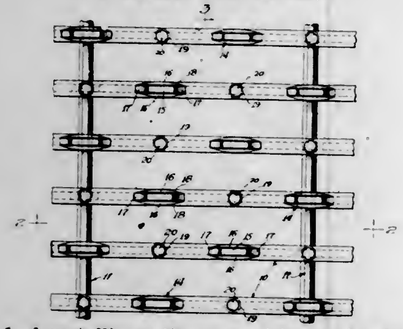
bodies being recessed, the other of the two said sides having a forward standing portion entering said recess, one of said bodies being transparent whereby material between the bodies may be viewed therethrough, a sealing ring outside the forward standing portion and interposed between the bodies, means for securing the bodies together, and means for supporting the bodies.

1,946,034
MINE ROOF SUPPORT
Erskine Ramsay, Birmingham, Ala.
Application June 26, 1931. Serial No. 546,998
5 Claims. (Cl. 254—126)



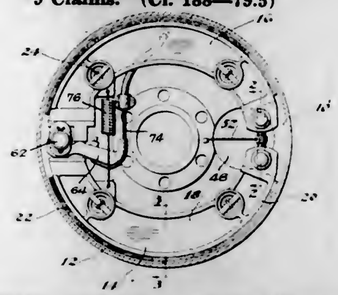
1. An adjustable mine roof prop comprising in combination an elongated base shoe having upwardly divergent prop elements resting thereon and adjustable longitudinally thereof, a screw means to draw the lower ends of said prop elements together or force them apart, and an elongated top shoe to which the prop elements are pivotally connected with an end thereof overhung beyond the prop element adjacent to the mine face being worked.

1,946,035
GRATING
Henry C. Reuter, Chicago, Ill.
Application September 12, 1932
Serial No. 632,750
4 Claims. (Cl. 94—30)



1. A metallic grating comprising a plurality of longitudinally extending bars having relatively narrow tread surfaces, and a plurality of transverse bars connecting the longitudinal bars together and having their upper surfaces located below the tread surfaces of the longitudinal bars, the said tread surfaces of said longitudinal bars being provided with spaced apart, raised lugs having elongated rectangularly shaped upper faces and downwardly inclined convex side surfaces.

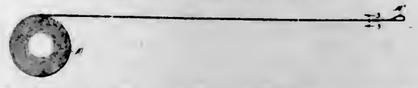
1,946,036
BRAKE
Roy S. Sanford, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Original application January 18, 1928, Serial No. 247,505. Divided and this application December 3, 1930. Serial No. 499,683
9 Claims. (Cl. 188—79.5)



1. A brake comprising a floating friction device having at least two parts, a pivot on each of the parts, and a floating thrust connection between said parts including a screw having right and left threads adaptable for travel in the pivots, and a member associated with the screw and contacting with another portion of the brake for locking the screw against movement.

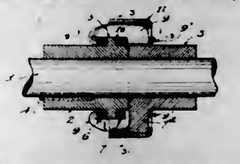
5. A brake comprising a drum, a pair of shoes arranged end to end, one of which forces the other against the drum when the brake is applied and a floating connection between the shoes inclined at an acute angle to a line tangent to the drum opposite the connection.

1,946,037
ELECTRIC FISH WIRE
Jens T. Scott, Brooklyn, N. Y.
Application October 14, 1931. Serial No. 568,651
6 Claims. (Cl. 175—37C)



1. An electric conductor-fishing implement comprising a length of flat wire corresponding to the length of the conduit with which it is to be used, the conductor-holding end of said wire being of uniformly tapered thickness, and having a reversely bent loop at its extremity.

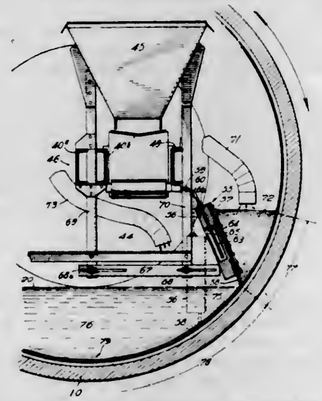
1,946,038
CLUTCH
Ernest Starbuck, Peoria, Ill.
Application March 6, 1931. Serial No. 520,487
22 Claims. (Cl. 192—48)



1. A clutch of two parts one of which includes a portion having an exposed surface, a ring adjacent the portion to abut such surface and normally free to rotate with respect to said portion, and a dog mounted at one end in the other part and substantially paralleling the axis of clutch rotation,

said dog being free to have lateral movement at its other end in the direction of such rotation, and having spaced opposed faces at said other end embracing between them the said ring and portion.

1,946,039
PRECOATING IN FILTRATION
Eugene Staritzky, New York, N. Y., assignor, by mesne assignments, to The Dorr Company, Inc., New York, N. Y., a corporation of Delaware
Application May 21, 1931. Serial No. 539,117
6 Claims. (Cl. 210—202)



1. In a process of cornstarch manufacture, the method of filtering the various grades of by-products thereof as obtained from wet separation steps which consists in forming a primary layer of the coarser by-products upon a filter element under suction, and allowing the fine by-products to filter upon said primary layer.

1,946,040
CATALYST FOR THE NUCLEAR CHLORINATION OF BENZENE COMPOUNDS AND METHOD OF USING SAME
Wesley C. Stoesser and Frank B. Smith, Midland, Mich, assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application October 1, 1931. Serial No. 566,228
12 Claims. (Cl. 260—161)

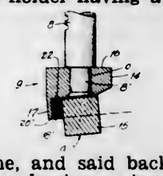
7. In a method for the nuclear chlorination of a benzene compound having the general formula,



wherein X represents hydrogen or a halo, alkyl or phenyl substituent, the step which consists in treating such compound with free chlorine in the presence of a chlorination catalyst comprising a mixture of sulphur, antimony trichloride and lead.

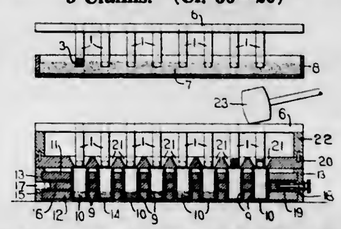
1,946,041
GRINDING MACHINE ABRASIVE ELEMENT
Joseph Sunnen, Kirkwood, Mo.
Application October 29, 1932. Serial No. 640,272
9 Claims. (Cl. 51—184.1)

1. An abrasive element for cylinder grinding machines comprising supporting members, a holder carried thereby, and a stone fixed in said holder, said holder having a suitable back-



ing for the stone, and said backing consisting of a metallic alloy having a zinc base and containing aluminum and copper.

1,946,042
PROCESS AND APPARATUS FOR CHARGING PYROTECHNICAL ARTICLES AND THE LIKE
Warren G. Thrasher, West Hanover, Mass., assignor to National Fireworks, Inc., West Hanover, Mass., a corporation of Massachusetts
Application June 15, 1932. Serial No. 617,335
5 Claims. (Cl. 86—20)

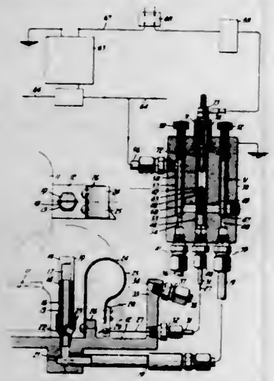


1. The process of loading shells with pyrotechnical material by delivering measured amounts of finely granular dry pyrotechnical material to the shell therefor which comprises thrusting substantially vertically into said mass a rigid bar of material incapable of producing a spark and having a bore at its end providing a cylindrical container having a closed bottom located at such distance from the open end as to provide a cavity of predetermined capacity to a sufficient depth and with sufficient force completely to fill and adhesively to compact the pyrotechnical material therein and removing the filled container from said mass, placing the same over and in close proximity to the mouth of the shell and jarring the bar to discharge the granular material from said container into said shell, loading other pyrotechnical materials into the shell and finally agitating the shell to mix the pyrotechnical materials therein.

1,946,043
GAS CONTROL SYSTEM AND APPARATUS
George A. Tuck, San Francisco, Calif.
Application November 30, 1931
Serial No. 578,013
3 Claims. (Cl. 158—117.1)

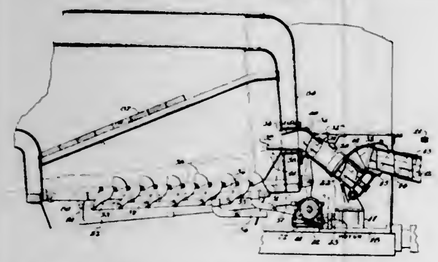
1. In a control system, a primary gas burner, a pilot burner associated with the primary burner, a movable valve member for controlling the supply of gas to the pilot burner, thermostatic means cooperably positioned with respect to said pilot burner for actuating said valve member to shut off the supply of the gas to the pilot burner when the flame of the same becomes extinguished, an electrically actuated valve for controlling the supply of gas to the primary burner, an electrical control circuit for said valve, contacts connected with said circuit and positioned to be actuated by movement of said valve member, whereby when said valve member is moved in a direction

to interrupt supply of gas to the pilot burner, said contacts are opened to disrupt said electrical circuit, a recycling gas burner cooperating with said pilot burner and said thermostatic means,



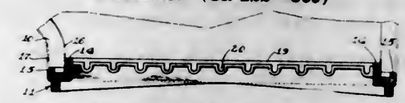
said recycling burner being arranged to heat said thermostatic means and to likewise ignite the pilot burner, and manually controlled means for supplying gas to said recycling burner.

1,946,044
LOCOMOTIVE STOKER
Edwin Archer Turner, New York, N. Y., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application June 5, 1929. Serial No. 368,490
7 Claims. (Cl. 110—101)



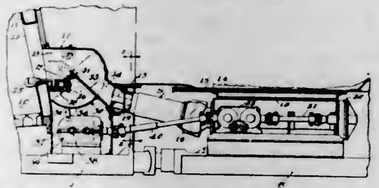
1. The combination with a locomotive and a tender, the locomotive having a firebox with a back leg provided with a plurality of openings, of a stoking means therefor comprising means for feeding fuel forward from the tender to and for forcing the same through the plurality of openings in the back leg of the locomotive firebox, means at the rear of the locomotive firebox supporting the fuel above the fire level for coking the same, said last named means being provided with deflectors for spreading the fuel laterally across substantially the entire rear portion only of the firebox, means for supplying air to burn the volatile gases given off during said coking, and separate means for progressively moving said coked fuel forward from the rear to the front of the firebed in said firebox and supplying air to burn it to ash during said movement, said means for feeding fuel from the tender to the openings in the back leg of the locomotive firebox constituting the sole means for advancing the fuel over the means at the rear of the locomotive firebox supporting the fuel above the fire level for coking the same.

1,946,045
LOCOMOTIVE MUD RING
Edwin Archer Turner and Charles J. Surdykowski, New York, N. Y.; said Surdykowski (now by judicial change of name Charles J. Surdy), assignors to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application November 23, 1929
Serial No. 409,234
2 Claims. (Cl. 122—369)



1. In combination, a boiler comprising an inner and an outer sheet, a mud ring for said boiler, a flange formed with and extending upwardly from the inner marginal edge of said mud ring and around the perimeter thereof, said boiler outer sheet being attached at its lower marginal edge to the outer side of said mud ring and said boiler inner sheet being attached at its lower marginal edge to the inner side of said upwardly extending flange, and grate bearer bars formed with the outer side of said upwardly extending shoulder.

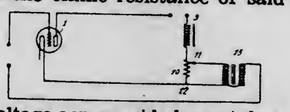
1,946,046
STOKER
Edwin Archer Turner, New York, N. Y., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application September 9, 1931. Serial No. 561,825
8 Claims. (Cl. 110—101)



1. In a stoker, a distributor member, distributing means for projecting fuel from said member, a conveyor disposed in a plane below said distributor member for advancing fuel from a source of supply toward said member, and an oscillatable lifter interposed between said conveyor and said member, said oscillatable lifter being arranged to receive fuel from said conveyor in one extreme position of its path and in the other extreme position of its path inclined at an angle greater than the angle of repose of the fuel on said lifter whereby fuel will fall by gravity onto said distributor member into the zone of action of said distributing means.

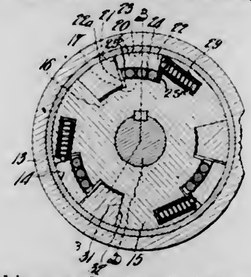
1,946,047
THERMIONIC AMPLIFIER
Balthasar van der Pol, Klaas Posthumus, and Bernardus Dominicus Hubertus Tellegen, Eindhoven, Netherlands, assignors to Radio Corporation of America, a corporation of Delaware
Application February 16, 1931, Serial No. 516,108, and in the Netherlands February 14, 1930
2 Claims. (Cl. 179—171)

1. In an amplifier circuit a space discharge device having an input circuit and an output circuit, said output circuit including a coupling impedance and a resistance element in series, a transformer having its primary shunted across at least a portion of said resistance and its secondary included in said input circuit, the impedance of said transformer being of such a value relative to the ohmic resistance of said element



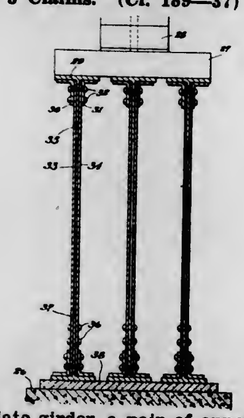
that the voltage across said element depends substantially only upon the drop across the resistance element.

1,946,048
DRIVING-LOCKING MECHANISM
Joseph Verderber, Cleveland, Ohio, assignor to Cleveland Universal Jig Company, Cleveland, Ohio
Application August 10, 1931. Serial No. 556,093
13 Claims. (Cl. 192—8)



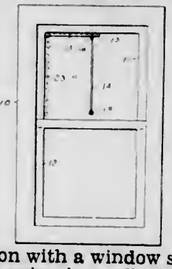
1. A locking mechanism including an annular housing, a disk journaled in said housing and having a notch therein opening toward the inner surface of the wall of said housing, the bottom of said notch eccentric with the axis of said disk, a locking member movable in said notch inwardly adjacent to said wall, an operating crank having a part extending into said notch, and a roller bearing in said notch radially between said bottom and said locking member and comprising sidewise spaced rollers and roller spacing plates on the longitudinal ends of said rollers and extending beyond the diameters of an end one of said rollers for contact thereon by said part.

1,946,049
PLATE GIRDER
Walter H. Weiskopf, Cedarhurst, and John W. Pickworth, Bronxville, N. Y.
Application October 8, 1931. Serial No. 567,580
3 Claims. (Cl. 189—37)



3. In a plate girder, a pair of opposite flanges each of which comprises an integral, T-shaped member, and a pair of outer members on opposite sides of the T-stem, respectively, and spaced from the latter; a web connecting the flanges and comprising two spaced plates arranged, respectively, in said spaces; and rivets binding together the outer members of each flange, the web plates, and the corresponding T-stem; each pair of outer members being secured in position only by means of said rivets, each of the outer members of at least one of said flanges comprising an angle element having one leg parallel to the corresponding T-stem with the free edge of said leg directed toward the cross-bar of said T.

1,946,050
WINDOW OPENING AND CLOSING DEVICE
Ludlow E. Werner, Brooklyn, N. Y.
Application November 23, 1931
Serial No. 576,740
1 Claim. (Cl. 268—134)

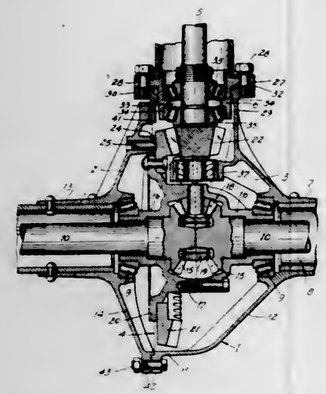


In combination with a window sash; a substantially flat rail, having inwardly extending flanges on its lower side, attached to the under side of the upper frame of the sash and extending from one side thereof to some distance beyond its center; a shoe slidingly and rotatingly mounted in said rail; and an operating rod suspended from said shoe and having an operating handle, the operating rod being hinged to the shoe so that the angle between it and the sash may be altered as the sash is lowered and raised and so that it may be lifted over and dropped behind the lower sash of the window to be placed in its inoperative position when the upper sash is opened, and the top of the shoe being flat so as to engage with the flat part of the rail to prevent the shoe from sliding sidewardly in the rail when an upward force is extended on the operating rod.

1,946,051
AUTOMOTIVE AXLE
Herbert W. Alden, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application September 13, 1929
Serial No. 392,425
3 Claims. (Cl. 74—99)

1. An automotive axle construction comprising a load supporting housing comprising two members joined in a plane transverse to the longitudinal axis and one of said members having a forwardly extending nosing integral therewith, shaft sections in said housing, differential mechanism in said housing connected to the inner ends of said shaft sections, a propeller shaft carrier in said nosing, a bevel drive propeller shaft mounted in said carrier and operatively connected to said differential mechanism to drive the same, said nosing having a seat integral therewith for a cylindrical bearing for the inner end of said propeller shaft, said shaft carrier having an outer annular flange which overlaps and is secured to the end of said nosing, said car-

rier also having a rib inside thereof and taper bearing cups seated in said carrier on opposite



sides of said rib, and said propeller shaft having bearing cones with taper rollers interposed between said cups and cones.

1,946,052

PROCESS OF MANUFACTURING PIGMENTS

Julian T. Baldwin, West Chester, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J., a corporation of New Jersey

No Drawing. Application September 27, 1930 Serial No. 484,937

8 Claims. (Cl. 134—58)

8. A process of coating the surface of a pigment which comprises subjecting the surface of the pigment comprising a metal compound adapted to react with fatty acids, to hot oxidized fatty acid vapors to form a thin film of soap of the metal and the oxidized fatty acid on the surface of the pigment.

1,946,053

PIGMENT

Julian T. Baldwin, West Chester, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J., a corporation of New Jersey

No Drawing. Original application October 12, 1929, Serial No. 399,394. Divided and this application September 27, 1930. Serial No. 484,938. Renewed June 13, 1933

2 Claims. (Cl. 134—58)

1. A pigment particle including available reactive zinc whose surface contains a water repellent zinc soap of blown soya bean oil in the form of a thin film covering the particle and adhering thereto.

1,946,054

PROCESS OF PREPARING PIGMENTS

Julian T. Baldwin, West Chester, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J., a corporation of New Jersey

No Drawing. Original application September 27, 1930, Serial No. 484,937. Divided and this application January 18, 1932. Serial No. 587,453

3 Claims. (Cl. 134—58)

1. The process of forming an adherent water repellent coating on the surface of a pigment which comprises dissolving a water soluble soap of an oxidized fatty acid in an aqueous suspension of a pigment, adding a metallic salt of the type which will react with the water soluble soap to form a water insoluble soap whereby the water insoluble soap of an oxidized fatty acid will be precipitated on the suspended pigment and form a coating on the pigment, and removing the pigment from the suspending medium in the form of individual particles thinly coated with said water insoluble soap of an oxidized fatty acid.

1,946,055

PIGMENT

Julian T. Baldwin, West Chester, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J., a corporation of New Jersey

No Drawing. Application October 21, 1932 Serial No. 638,994

11 Claims. (Cl. 134—58)

1. As a product of manufacture, a pulverulent pigment having an adherent water repellent coating on its surface, said coating comprising a soap of an oxidized fatty acid having more than seven carbon atoms in the chain.

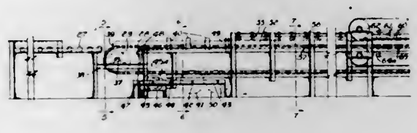
1,946,056

APPARATUS FOR FORMING WALL BOARD INTO BUNDLES

Charles R. Birdsey, Hinsdale, Ill., assignor to United States Gypsum Co., Chicago, Ill., a corporation of Illinois

Application July 30, 1928. Serial No. 296,354

20 Claims. (Cl. 216—9)



1. In a bundling machine, means for receiving a plurality of wallboards in face to face relation, means for continuously advancing said wallboards, means for aligning the edges of said wallboards, means for applying fibrous binders to the opposite edges of said wallboard bundles to prevent said wallboard edges from becoming out of alignment, and means for severing said fibrous binding elements so as to separate the bundles one from the other, said severing means comprising cutters movable in synchronism with the continuous movement of said wallboards and also movable transversely of said wallboards to sever the binding elements at each of said opposite edges of said wallboards.

1,946,057

PRESERVATIVE

Edgar C. Britton and Lindley E. Mills, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 26, 1931 Serial No. 571,282

12 Claims. (Cl. 87—7)

2. As a composition of matter, glue containing a compound selected from the class consisting of polychloro-phenols and the alkali and alkaline-earth metal salts thereof.

9. As a composition of matter, glue containing an alkali metal salt of 2.4.5-trichloro-phenol.

1,946,058

AMINO-AROMATIC KETONES AND METHOD OF MAKING SAME

Edgar C. Britton, Midland, Mich., and Fred Bryner, Oakland, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application July 27, 1932 Serial No. 625,192

8 Claims. (Cl. 260—64)

1. The method of making an amino derivative of an aromatic ketone which comprises reacting a nuclear halogenated aromatic ketone of the benzene or naphthalene series with aqueous ammonia under superatmospheric pressure at a temperature between about 170° and about 300° C. and in the presence of a copper compound.

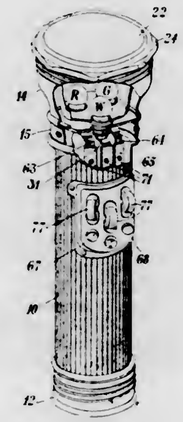
1,946,059

FLASH LIGHT

Max E. Buchholz, Hoboken, N. J., assignor to Bright Star Battery Company, Hoboken, N. J., a corporation of New York

Original application March 9, 1929, Serial No. 345,753. Divided and this application August 5, 1931. Serial No. 555,313

3 Claims. (Cl. 240—10.66)



1. A flashlight comprising a body or casing, a head on said casing, a single cupped reflector in said head, a plurality of sockets attached to said reflector, means for connecting said sockets with one pole of a flashlight cell, an insulating disk in said casing behind said reflector, openings in said disks for said sockets, and terminal connections on the underside of said disk extending crosswise of the openings in the disk and adapted to make contact with the center terminals of lamps in said sockets, said terminal connections on the underside of said disk comprising short strips, and conducting strips carried by the casing, adapted to make contact with said short strips, a notch in said disk, and a projection in line with one of the conducting strips on the casing adapted to project through said notch, and position the disk and terminal strips thereon in predetermined contact relation to said strips on the casing.

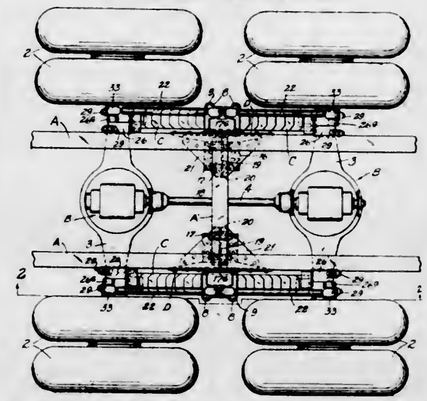
1,946,060

MOTOR VEHICLE

Laurence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio

Application November 16, 1931 Serial No. 575,191

15 Claims. (Cl. 280—124)



1. In a motor vehicle, a truck comprising two axles, means for maintaining said axles in proper spaced relation, each of said axles having a recess therein opening toward the other axle, a spring extending from axle to axle with each end resting in a recess for distributing the load of the vehicle between said axles, and means permitting independent endwise movement of said axles relative to said spring and longitudinal movement of said spring independently of said axles, said recess also opening at one side.

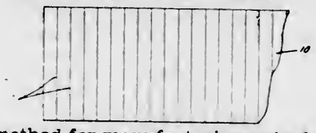
1,946,061

METHOD OF MAKING WEBS FOR BRAKE SHOES

Clarence E. Budd, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Application April 27, 1931. Serial No. 533,254

3 Claims. (Cl. 29—152.1)



1. A method for manufacturing webs for brake shoes comprising stamping strips of metal transversely of the grain of the metal and deforming the strip by stretching one edge and compressing the other.

1,946,062

CLUTCH MECHANISM

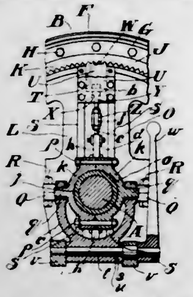
David L. Cramp, Kirkland Lake, Ontario, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application July 12, 1929. Serial No. 377,716

2 Claims. (Cl. 192—71)

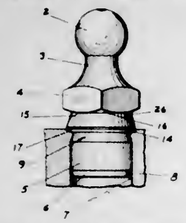
1. A clutch, comprising a drive shaft, a drum rotatably mounted thereon, a ring gear having introverted teeth, means for securing the ring gear to the drum, a driving member affixed to the drive shaft and rotatable therewith, guide means on the driving member, blocks in the guide means having teeth adapted to engage the teeth

of the ring gear, means surrounding the drive shaft and slidable therealong connected to the toothed blocks, and means to actuate the last



mentioned means along the shaft to cause the toothed blocks to engage the ring gear thereby causing motion of the drive shaft to be transmitted to the drum.

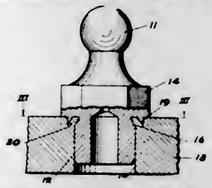
1,946,063
LUBRICATION DEVICE
Adiel Y. Dodge, South Bend, Ind., assignor to The Lubrication Corporation, South Bend, Ind., a corporation of Delaware
Application February 8, 1932. Serial No. 591,536
5 Claims. (Cl. 285—25)



4. A drive type lubrication fitting comprising, a body having a head portion for engagement with a lubricant nozzle, a shank portion to be secured in a receiving member such as a bearing, and an intermediate portion between the head and shank portions, said shank portion terminating in a substantially cylindrical part with substantially smooth exterior walls, said cylindrical part being adapted to be received wholly within a bore in the receiving member, said shank portion also having a circumferential swaging shoulder of greater diameter than said cylindrical part disposed adjacent to said intermediate portion and a recess between said shoulder and cylindrical part for reception of material swaged from said receiving member by said swaging shoulder, said intermediate portion having a part adapted to be engaged by a wrench, and a lifting tool engaging part between said wrench engaging part and said shoulder on said shank portion.

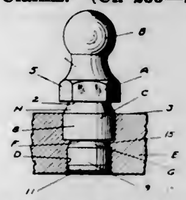
1,946,064
LUBRICATING DEVICE
John L. Creveling, near Tucson, Ariz., assignor to The Lubrication Corporation, South Bend, Ind., a corporation of Delaware
Application February 8, 1932. Serial No. 591,621
5 Claims. (Cl. 285—25)

1. A lubrication drive fitting, having a shank adapted to enter a preformed recess in a receiving member, said fitting being further formed with a depending projection arranged to enter and laterally displace metal of said receiving member as the shank is driven therein, said shank having



a recess therein within the shadow of said projection.

1,946,065
LUBRICATING DEVICE
Adiel Y. Dodge, South Bend, Ind., assignor to The Lubrication Corporation, South Bend, Ind., a corporation of Delaware
Application June 27, 1932. Serial No. 619,494
3 Claims. (Cl. 285—25)



1. A drive type lubrication fitting comprising, a lubricant nozzle engaging portion and a shank adapted to be driven into a preformed bore in a receiving member, said shank being formed with a recess in the side wall thereof substantially at the midpoint of that portion of the shank admitted within said bore and a drive shoulder for displacing metal of said receiving member into said recess as the fitting is driven therein, said drive shoulder having a greater dimension radially of the fitting than the radial dimension of said bore at a place adjacent to the location of the recess when the fitting is completely driven into said bore.

1,946,066
PARACHUTE
Josef Eschner, Vienna, Austria
Application August 26, 1931, Serial No. 559,452, and in Austria September 25, 1930
4 Claims. (Cl. 244—21)

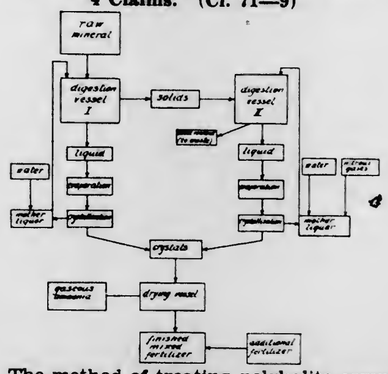


4. In a parachute the combination of: a canopy; a framing fixed to said canopy and composed of crossed band springs of arched cross section; and locking means for holding the framing in its rolled-up condition comprising cords and a releasable lock co-operating therewith.

1,946,067
REDUCTION OF THE VISCOSITY OF CELLULOSE NITRATE
Roderick K. Eskew, Rahway, N. J., assignor to Dupont Viscoloid Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 25, 1932
Serial No. 601,302
8 Claims. (Cl. 260—148)

1. A process for reducing the viscosity of cellulose nitrate which comprises acting thereon with a pyridine base as a viscosity reducing agent, and thereafter treating the cellulose nitrate with an aldehyde to remove the said agent.

1,946,068
METHOD OF TREATING POLYHALITE
Hans Friedrich, Berlin, Germany
Application September 11, 1931, Serial No. 562,409, and in Germany August 1, 1930
4 Claims. (Cl. 71—9)

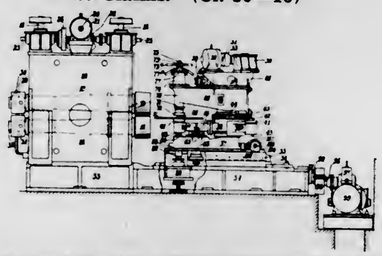


1. The method of treating polyhalite comprising heating said mineral with water in the presence of an acid nitrogen-oxygen compound and separating the solution thus obtained from the insoluble residue.

1,946,069
MAGNESIUM BASE DIE CASTING ALLOYS
Leo B. Grant and Otis E. Grant, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 10, 1933
Serial No. 679,713
3 Claims. (Cl. 75—1)

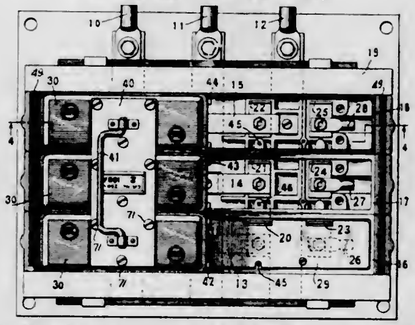
1. A magnesium base alloy consisting of aluminum in amount from 8 to 15 per cent, manganese from 0.5 to 0.1 per cent, silicon from 0.35 to 1.0 per cent, the balance being magnesium.

1,946,070
ROLLING DISCUS METAL BLANK
Thomas Wilton Hand, Hamilton, Scotland, assignor to Colvilles Limited, Glasgow, Scotland
Application January 7, 1933, Serial No. 650,610, and in Great Britain April 27, 1932
20 Claims. (Cl. 80—16)



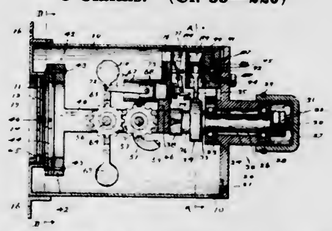
4. A machine for rolling discus metal blanks and comprising a pair of rotary pressure rolls presenting between them an open-ended blank-receiving space, a structure mounted for movement to-and-from said rolls, a super-structure mounted on said structure and movable therewith, a single blank-clamp rotatably mounted in said super-structure and in a working position which is co-planar with the blank-receiving space, a turret rotatably mounted between said structure and super-structure, a series of blank-clamps rotatably mounted in said turret and individually registrable with said single blank-clamp in the working position, a retractable stop on said structure to locate said turret in said working position, clutch-mechanism for rotating said turret in steps to bring its blank-clamps in sequence into the working position, means on said structure for forcing one of the last-mentioned blank-clamps at the conclusion of each of said steps to exert blank-clamping pressure in conjunction with the single blank-clamp, and gearing for linearly moving said structure to-and-from said rolls at different speeds between successive steps of the turret.

1,946,071
ELECTRIC CUT-OUT
Frank Harvey, Covington, Ky., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application December 24, 1930
Serial No. 504,445
20 Claims. (Cl. 200—114)



1. An electric cut out of the panel board type including a plurality of insulating housings each having stationary contacts and circuit terminals mounted therein, a plurality of fuse carriers loosely secured to a common carrier plate and each carrier being provided with a pair of contacts adapted to engage a cooperating pair of stationary contacts in one of the respective housings, said plate and said fuse carriers being removable together as a unit and said housings being provided with means for yieldingly holding said unit in place when turned end for end and re-inserted in said housing.

1,946,072
ARTIFICIAL HORIZON
Robert J. Horlacher, Poughkeepsie, N. Y.
Application December 10, 1931
Serial No. 580,120
5 Claims. (Cl. 33—220)



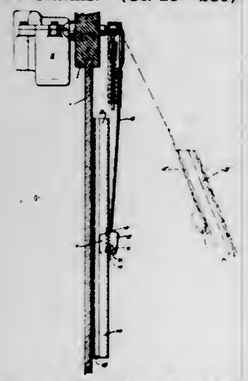
1. A device of the class described, comprising a casing, a window mounted in one end thereof, an indicating mark on said window and in fixed re-

lation thereto, an end plate secured in the other end of said casing, a bearing formed in said plate in axial relation to said casing, a shaft rotatably mounted in said bearing, a frame carried by said shaft having rotary movement only with respect to said window and in axial relation therewith and provided with a guideway, an indicating rod mounted in said guideway and means carried by said frame for moving said indicating rod by the movement of the device in a vertical plane through the axis of said shaft to coact with the indicating mark on the window to indicate the position of the device with respect to the true horizon.

1,946,073
WIPER BLADE AND MOUNTING

Erwin C. Horton, Hamburg, and Henry Hueber, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.

Application December 9, 1929. Serial No. 412,813
22 Claims. (Cl. 15—250)

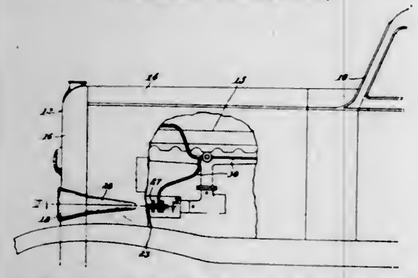


1. A wiper mounting for windshield cleaners comprising a blade carrying arm having a seat therein with laterally disposed ears on opposite sides thereof, a wiper blade having an attaching element projecting from the back thereof and interlocked with the seat of said arm, said blade loosely fitting between said ears for alternate engagement therewith during reciprocation of the arm whereby the ears will determine the angular relation of the blade with the windshield glass.

1,946,074
RADIATOR SHELL

Henry Hueber, Buffalo, and Erwin C. Horton, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.

Application October 2, 1931. Serial No. 566,574
12 Claims. (Cl. 180—54)

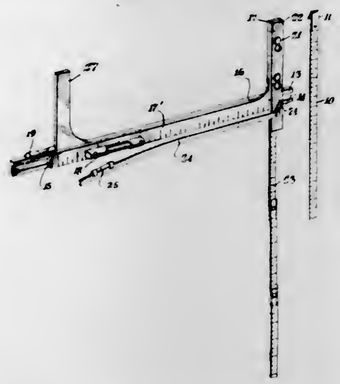


1. The combination with a radiator shell for motor vehicles, of a signalling device having portions thereof formed integrally in the radiator shell, and a hood adjacent the radiator shell, said signalling device having like registering portions on the radiator shell and hood respectively to extend substantially continuously from the radiator shell into the hood.

1,946,075
ANTHROPOMETER

Conrad Huebsehle, Cincinnati, Ohio

Application June 2, 1931. Serial No. 541,561
1 Claim. (Cl. 33—7)



An anthropometer comprising a pair of interengaged, longitudinally slidable bars, each bar having a single arm extending at a right angle from its upper edge in parallel one with the other, one of said arms having two spaced rigid buttons and its bar being graduated, a strip having key hole shaped openings to engage said buttons, a foldable graduated rod extending lengthwise downwardly from said strip, a graduated blade adjustably fixed to said strip, and means carried by said bars and blade to indicate when they are level.

1,946,076
ELECTRON DISCHARGE TUBE

Johan Lodewyk Hendrik Jonker and Karel Marinus Van Gessel, Eindhoven, Netherlands, assignors to Radio Corporation of America, a corporation of Delaware

Application May 14, 1932, Serial No. 611,272, and in Germany May 1, 1931
2 Claims. (Cl. 250—27.5)



1. An indirectly heated cathode for an electron discharge tube comprising an electron emitting element, a heater adjacent to and substantially coextensive with said emitting element, and a support connected to said emitting element, the resistance of that portion of the heater which is adjacent the point of connection between support and electron emitting element being greater than any other equal portion of the heater.

1,946,077
METHOD OF PRODUCING POROUS GYPSUM PRODUCTS

Hans O. Kauffmann, Buffalo, N. Y., assignor to Buffalo Electro-Chemical Co. Inc., Buffalo, N. Y.

No Drawing. Application September 15, 1932 Serial No. 633,385
11 Claims. (Cl. 106—34)

1. The process of producing cellular building products which comprises incorporating a quantity of a peroxide with a mix of cementitious material and water, distributing a potentially active catalytic peroxide decomposing agent in the mix, and thereafter rendering the catalytic agent active whereby the peroxide is decomposed and oxygen evolved uniformly throughout the mix.

1,946,078
VENDING MACHINE

Victor H. Kelley, Madison, Wis.

Application July 11, 1931. Serial No. 550,103
7 Claims. (Cl. 312—97)



2. In a vending machine, a casing having a delivery opening, an endless conveyor movable in the casing having a plurality of article receiving pockets, means including an operating shaft for actuating said endless conveyor for bringing a selected pocket into registration with the delivery opening, and positive means for ejecting an article from a selected pocket including a swinging yoke, an ejecting member carried by the yoke movable through a selected pocket for ejecting an article therefrom, and means for actuating the yoke.

1,946,079
ALKYLOLAMINE DERIVATIVES OF ALIPHATIC ACIDS

Jean Georges Kern, Waltham, Mass., and Charles J. Sala, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application August 4, 1927, Serial No. 210,714. Divided and this application March 21, 1930. Serial No. 437,937
20 Claims. (Cl. 260—112)

17. A product resulting from the chemical combination of a higher fatty acid with an alkylolamine containing a plurality of alkyl groups.

1,946,080
ALKYLOLAMINE DERIVATIVES OF ALIPHATIC ACIDS

Jean Georges Kern, Waltham, Mass., and Charles J. Sala, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

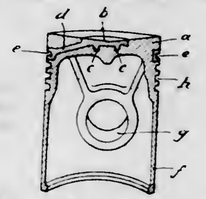
No Drawing. Original application August 4, 1927, Serial No. 210,714. Divided and this application March 21, 1930. Serial No. 437,938
8 Claims. (Cl. 260—112)

1. A product resulting from the chemical combination of oleic acid and an alkylolamine containing a plurality of alkyl groups.

1,946,081
LIGHT METAL PISTON

Erich Koch, Stuttgart, Germany, assignor to Elektronmetall G. m. b. H., Stuttgart-Cannstatt, Germany

Application February 11, 1933, Serial No. 656,310, and in Germany September 22, 1931
4 Claims. (Cl. 309—14)

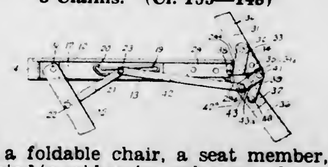


1. In a light metal piston in combination a plate of heavy metal in the head of the piston, the metal of the plate having substantially the same heat-expansion coefficient as the metal of the piston, a piston-ring sleeve on said piston, consisting also of heavy metal, and an arm connecting said plate to said sleeve.

1,946,082
FOLDING CHAIR

John Kovats, Bridgeport, Conn., assignor to The Leg-O-Matic Company, Bridgeport, Conn., a corporation of Connecticut

Application November 19, 1930
Serial No. 496,752
8 Claims. (Cl. 155—148)



6. In a foldable chair, a seat member, front legs pivoted to said seat member, rear legs pivoted at their upper ends adjacent the rear edge of said seat member, a back pivoted at the rear edge of the seat member to fold over onto the seat member, and means connecting said rear legs with the back whereby as the back is folded onto the seat member the rear legs are folded rearwardly about their pivots into a position extending from the rear edge of the seat member and in the plane thereof.

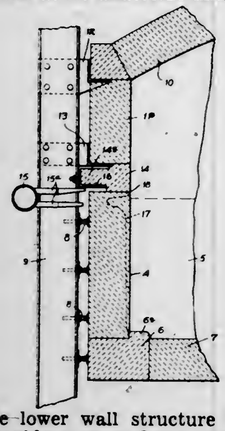
1,946,083
FURNACE WALL

James M. Lambie, Washington, Pa., assignor to Findlay Clay Products Company, Washington, Pa., a corporation of Pennsylvania

Application May 6, 1933. Serial No. 669,699
8 Claims. (Cl. 263—44)

8. The combination with a furnace having a lower wall structure and an independently-supported upper wall structure, of a tuck stone inter-

posed between said structures and serving to seal the joint between the said wall structures, at the inner side of the furnace, the outer portion of the tuck stone at its underside and the adjacent



edge of the lower wall structure being spaced apart to provide a space for a cooling medium, and means for supporting the tuck stone independently of the lower wall structure.

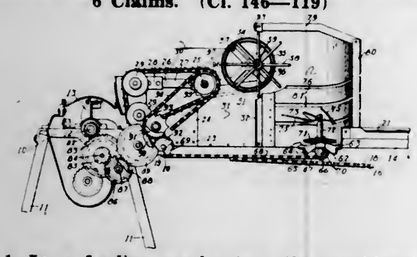
1,946,084

FEEDING MECHANISM FOR GRINDING MILLS

John Holland-Letz, Crown Point, Ind., assignor to The Letz Manufacturing Company, a corporation of Indiana

Application August 6, 1930. Serial No. 473,305

6 Claims. (Cl. 146—119)



1. In a feeding mechanism, the combination with a grinding mill, a cutter head, a horizontal conveyor for feeding the material to said cutter head, a floating feed belt located over the delivery end of said conveyor, a horizontally disposed feed roller having eccentrically actuated fingers projecting through the periphery thereof, said roller located above said horizontal conveyor forwardly of said floating feed belt, two angularly disposed rotating members having substantially radially disposed spring fingers normally extending over the path of said horizontal conveyor, and means for driving said horizontal roller and said rotating members through the shaft of said cutter head.

1,946,085

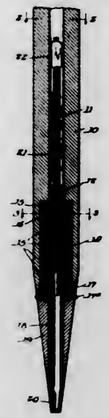
MECHANICAL PENCIL

Arthur N. Lungren, Evanston, Ill., assignor to The Wahl Company, Chicago, Ill., a corporation of Delaware

Application November 5, 1932. Serial No. 641,418

15 Claims. (Cl. 120—18)

1. In a mechanical pencil, in combination, a barrel affording an opening at its lower end, a tip portion having a lead guide tube insertable longitudinally into the barrel, centering members carried by the barrel for cooperation with the lead guide tube to hold it in axial alignment with



the barrel, and a holding element adapted to engage the lead guide tube intermediate the centering members to hold it in place by friction, yet permit its rotation and withdrawal upon application of sufficient force.

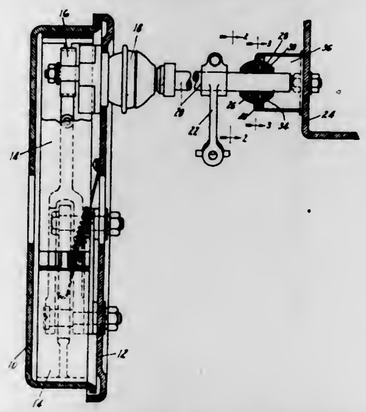
1,946,086

BRAKE-SHAFT SUPPORT

Kenneth E. Lyman, Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Application June 29, 1927. Serial No. 202,269

3 Claims. (Cl. 308—72)



1. A support comprising, in combination, a ball including two separate sections formed with alined central bores perpendicular to the plane dividing the sections, and having annular seats surrounding said bores on the adjacent plane faces of said sections, an internally spherical socket receiving said ball, and a coil spring seated in said annular seats at its opposite ends and urging the sections apart against the opposite sides of said socket, said socket consisting of a bracket member formed with one half of the socket, together with a stamping forming the other half of the socket and secured to the bracket member.

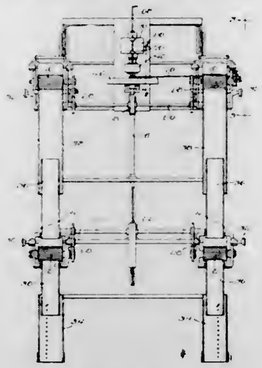
1,946,087

BRAKE TESTING MACHINE

Furber I. Marshall, Chicago, Ill., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y., a corporation of Delaware

Application May 9, 1928. Serial No. 276,294

6 Claims. (Cl. 265—25)



2. A vehicle brake-testing machine comprising, in combination, means for turning the four wheels of a motor vehicle against the resistance of the brakes, and two indicating means independently associated therewith and operated thereby, one of which is operated by torque reaction to show the individual effectiveness of the brakes, and the other of which shows the combined effectiveness of the same brakes.

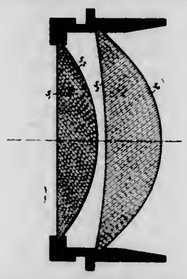
1,946,088

CONDENSING LENS SYSTEM FOR MOTION PICTURE PROJECTION

John A. Maurer, Jr., New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Refiling for abandoned application Serial No. 684,391, January 4, 1924. This application July 24, 1930. Serial No. 470,371

5 Claims. (Cl. 88—24)



1. A condenser lens comprising a series of zones having progressively different refractive powers, the said differences of refractive powers being of such magnitude as to produce different focal lengths for the several zones, and the difference of the said focal lengths being of the same order of magnitude as the difference between the focal lengths for the several components of white light for any one zone, whereby the several components of white light from the several zones overlap within a predetermined area to produce white light.

1,946,089

ANHYDROUS SODIUM SULPHIDE AND PROCESS OF MAKING SAME

Henry Horace Mayers, Philadelphia, Pa., assignor to Rohm & Haas Company, a corporation of Delaware

No Drawing. Application June 7, 1930

Serial No. 459,837

5 Claims. (Cl. 23—134)

1. A process for making granular anhydrous sodium sulphide which consists in heating hydrous sodium sulphide under reduced pressure and simultaneously stirring said mass by plowing and turning over the same.

3. As a new article of manufacture a new form of sodium sulphide which is granular and contains over 85% Na_2S.

1,946,090

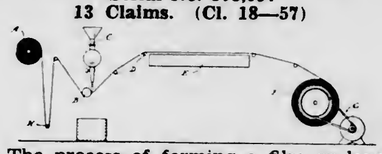
METHOD FOR COATING FABRICS

John McGavack, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a corporation of Connecticut

Application September 27, 1928

Serial No. 308,697

13 Claims. (Cl. 18—57)



1. The process of forming a film or layer of rubber or similar material which comprises spreading latex material on an inclined upwardly moving band under the action of gravity opposed to the movement of the band.

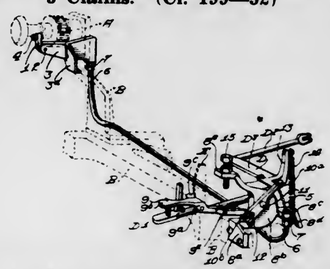
1,946,091

SAFETY ATTACHMENT FOR TYPESETTING MACHINES

Denis P. McLaughlin, San Diego, Calif.

Application March 4, 1931. Serial No. 519,941

3 Claims. (Cl. 199—52)



1. In a safety attachment for typesetting machines, the combination with a typesetting machine having a mold disk drive pinion and ejector blades selected by an ejector blade lever, of a casing member supported from the framework of the typesetting machine, and extending outwardly therefrom below said mold disk drive pinion, a lever means journaled within said casing member having an arm extending upwardly into engagement with said pinion, a bracket supporting said ejector blade lever, a catch latch supported by said ejector blade lever and normally holding the movement thereof, said catch latch being capable of limited movement relative to said ejector blade lever so as to release the same and thereupon shift with said ejector blade lever,

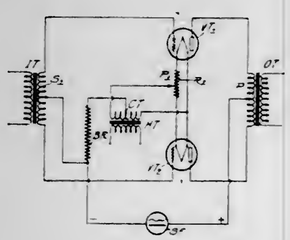
a flexible casing secured to and communicating with said casing member and secured at its other end to said bracket, a flexible link means threaded through said flexible casing and operatively connecting said lever means with said catch latch whereby movement of said lever means causes said catch latch to release and shift said ejector blade lever so as to select a predetermined number of ejector blades.

1,946,092

PUSH-PULL AMPLIFIER SYSTEM

Benjamin F. Miessner, Short Hills, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application November 8, 1929. Serial No. 405,584
10 Claims. (Cl. 179—171)



1. In an amplifier system, the combination of a pair of electron tubes, push-pull input and output circuits therefor, a resistance common to said input and output circuits for determining the biasing of said tubes, said tubes having a common filament energizing system connected to a source of alternating current, the filaments of said tubes being connected in parallel in said system, and a potentiometer, the resistance of which is series connected between corresponding legs of the filament of each tube and the variable tap of which is connected to one terminal of said energizing system, the other terminal of said energizing system being connected to the other corresponding legs of the filament of each tube, whereby the impedance of said tubes may be differentially varied.

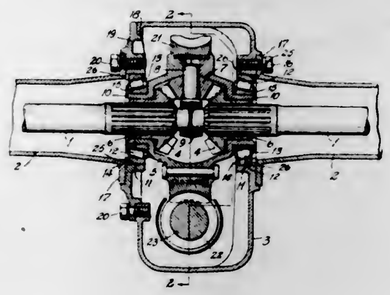
1,946,093

AUTOMOTIVE AXLE

Mathew B. Morgan, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio

Application April 11, 1932. Serial No. 604,427
6 Claims. (Cl. 74—99)

1. An automotive driving axle construction comprising an axle housing, axle shaft sections therein, said axle housing comprising intermediate and end members detachably connected together endwise with their adjacent faces in direct contact, said intermediate member having openings in its ends, differential gearing connecting the inner ends of said axle shaft sections, a casing for said gearing enclosed within the intermediate member of said axle housing, antifriction bearings mounted in the openings in said intermediate member for rotatably supporting the casing in the intermediate member of said axle housing, and replaceable shims mounted entirely within said openings between and in contact with said antifriction bearings and the



inner ends of the end members of said axle housing.

1,946,094

TREATMENT OF HYDROCARBON OILS

Jacque C. Morrell and Gustav Egloff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

No Drawing. Application February 16, 1931
Serial No. 516,274
6 Claims. (Cl. 196—36)

1. A step in the refining of the overhead products resulting from hydrocarbon oil cracking, which comprises subjecting said products in heated vaporous condition to the action of sulphur trioxide and steam in the presence of a non-metallic solid contact agent, the quantity of sulphur trioxide being not substantially in excess of that necessary to remove sulphur and gum forming bodies from the distillate.

1,946,095

TREATMENT OF HYDROCARBON OILS

Jacque C. Morrell and Gustav Egloff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

No Drawing. Application February 16, 1931
Serial No. 516,277
4 Claims. (Cl. 196—36)

1. A step in the refining of the overhead products resulting from the cracking of hydrocarbon oil, which comprises subjecting said products in heated vaporous condition to the action of an acid of phosphorus and a free oxygen containing gas in the presence of a non-metallic solid contacting agent.

1,946,096

TREATMENT OF HYDROCARBON OILS

Jacque C. Morrell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

No Drawing. Application March 25, 1932
Serial No. 601,297
3 Claims. (Cl. 196—36)

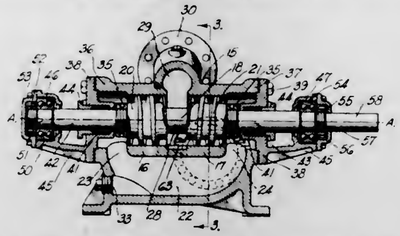
1. A process for refining hydrocarbon oil to remove gum and gum-forming components therefrom, which comprises subjecting the said hydrocarbon oil while in heated vaporous condition to the action of an aqueous solution of a water soluble borate, and adding steam to the vapors to prevent undue concentration of the solution.

1,946,097

GATE TYPE ROTARY PUMP

Thomas L. Morris, Van Nuys, and William A. Grant, Los Angeles, Calif., assignors to Grademor Corporation, Ltd., Los Angeles, Calif., a corporation of California

Application August 17, 1931. Serial No. 557,460
6 Claims. (Cl. 103—125)



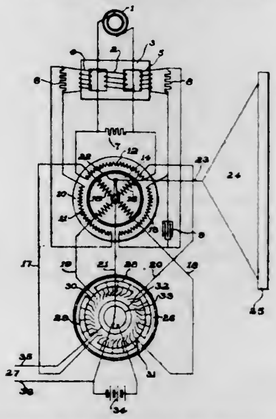
1. A pump of the character described, including: a body having a barrel on a primary axis, and a gate structure recess communicating with a side of said barrel; a screw member in said barrel having spiral grooves in the peripheral wall thereof; a gate structure mounted in said recess so as to rotate on an axis lying in a plane intersecting said primary axis, said gate structure having a plurality of gate rollers projecting therefrom in positions to travel longitudinally through said grooves of said screw member and to rotate on axes substantially radial to said primary axis during the time said rollers are in said grooves, said axis of said gate structure being set to one side of a plane passing through the effective center of said screw member and perpendicular to the axis thereof, so that fluid pressure against the rollers in engagement with said screw member will apply a constant rotational force to said gate structure; and means for rotating said screw member.

1,946,098

SOUND WAVE PRODUCING DEVICE

Montford Morrison, Long Island City, N. Y.

Application September 19, 1931
Serial No. 563,803
10 Claims. (Cl. 179—115.5)



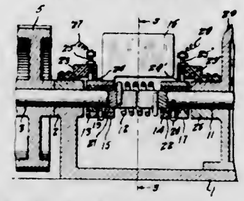
1. A sound wave producing device comprising a polyphased alternating-current-field winding and an armature continuously responsive to sound modulated currents and mechanically associated with a sound wave generating surface.

1,946,099

ELECTRICAL DYNAMOMETER

Raymond J. Norton, Washington, D. C., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y., a corporation of Delaware

Application March 5, 1929. Serial No. 344,573
1 Claim. (Cl. 265—25)



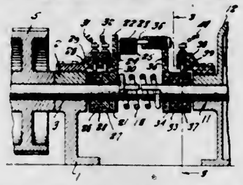
A dynamometer for a brake tester having a driving shaft and a driven shaft comprising a resilient coupling for said shafts adapted to allow relative rotation thereof in response to torque, an element of a variable electrical condenser mounted on the driving shaft, another element of the condenser mounted on the driven shaft and means for measuring the variation in capacity of the condenser.

1,946,100

ELECTRICAL DYNAMOMETER

Raymond J. Norton, Washington, D. C., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y., a corporation of Delaware

Application March 5, 1929. Serial No. 344,574
2 Claims. (Cl. 265—25)



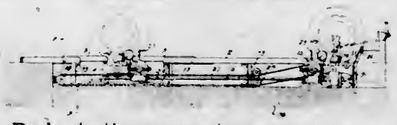
1. A dynamometer comprising a shaft adapted to be connected with a load, a power driven shaft, resilient means for coupling the power shaft to the first mentioned shaft, an element of a variable potentiometer mounted on the first mentioned shaft, another element of the potentiometer mounted on the power shaft, an electron tube having grid and plate circuits, the grid circuit including the potentiometer, and means in the plate circuit for indicating current flowing therein.

1,946,101

BRAKE TESTING STRUCTURE

Raymond J. Norton, Washington, D. C., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y., a corporation of Delaware

Application March 25, 1929. Serial No. 349,793
4 Claims. (Cl. 73—51)



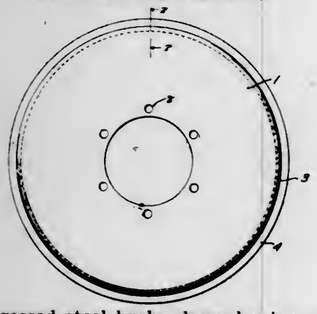
1. Brake testing apparatus comprising a plurality of brake testing units, those for testing the brakes at one end of a vehicle being fixed, those for testing the brakes at the other end of the

vehicle being movable, a source of power for operating the units associated with one side of the vehicle, and for adjusting the movable unit and a source of power for similarly operating the units associated with the other side of the vehicle.

1,946,102
BRAKE ROTOR

Raymond J. Norton, Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Application July 26, 1930. Serial No. 471,012
7 Claims. (Cl. 188—218)



1. A pressed steel brake drum having a marginal lip of a metal of higher tensile strength welded thereto the brake drum being unstressed under normal temperature conditions.

1,946,103
BRAKE DRUM

Raymond J. Norton, Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Application November 20, 1930
Serial No. 496,989
5 Claims. (Cl. 188—218)



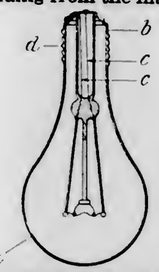
1. A brake drum of low carbon steel and having a welded frictional engaging surface of a steel of substantially the same carbon content but of a higher degree of hardness.

1,946,104
ELECTRIC LAMP

Tsuneto Ohara, Kotaro Enomoto, and Ko Honda, Tokyo, Japan, assignors of one-fifth to Kanichiro Matsuki, Tokyo, Japan

Application March 3, 1928. Serial No. 258,955
1 Claim. (Cl. 176—32)

A glass incandescent electric lamp having all except the filament and terminals in one piece, comprising a bulbous portion, said bulbous portion merging into a cylindrical neck portion having external screw threads formed integrally therewith for fitting directly into a lamp socket, the end of said neck beyond the screw threads being turned inwardly to form a hollow filament supporting tube which extends through said neck portion, a filament within the bulb, and a pair of lead wires extending from the filament through

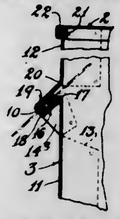


the filament supporting tube, one of said lead wires passing through the glass where the neck portion turns inwardly to form the hollow tube and terminating in a filament terminal on the neck portion adjacent the socket end thereof and beyond the screw threads, the other lead wire terminating in a filament terminal located substantially at the center of the inturned end portion of the neck

1,946,105
SANITARY DISPENSING CABINET FOR SURGICAL GAUZE AND THE LIKE

Alexander H. Parlett, Bellevue, Pa.

Application August 8, 1931. Serial No. 555,903
3 Claims. (Cl. 242—55.2)



1. In a sanitary cabinet for dispensing surgical gauze and the like, a sheet metal container of parallelipipedal form open at the top and adapted to accommodate a roll of surgical gauze and the like; a cover hingedly mounted on the container adapted to close the top thereof; a wall having a dispensing aperture comprising a lower lip and an upper lip for the gauze; said wall comprising an upper part and a lower part each having longitudinal flanges to secure said parts to the adjacent sides of the container; the upper edge of the lower part and the lower edge of the upper part being extended and bent obliquely and outwardly in substantially parallel spaced relation to form respectively the lower and the upper lips of said aperture, and lateral flanges positioned on the upper lip to secure same to the adjacent sides of said container.

1,946,106
CONNECTER

Russell Patrick, Indianapolis, Ind., assignor to United States Tire Company, Incorporated, Indianapolis, Ind., a corporation of Indiana

Application December 10, 1932
Serial No. 646,604
2 Claims. (Cl. 285—170)

1. A connecter comprising a recessed body portion having an opening for a discharge conduit and an opening for a supply conduit, a gasket movably mounted in and engaging the surface of said recess and having a portion adapted to project into the discharge opening, the interior of said gasket being of conoidal shape, and a perforated nozzle disposed in said recess beneath the gasket in communication with the supply

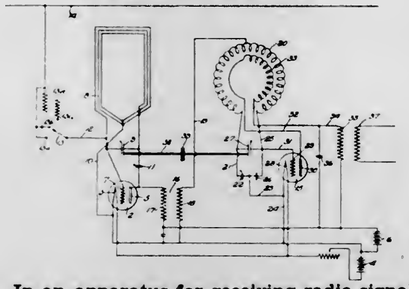


opening and having a portion extending through the gasket and into communication with the discharge opening, whereby upon the application of fluid pressure to the nozzle it moves toward the discharge opening carrying with it the gasket, and the fluid passing through the perforations in the nozzle causes the gasket to expand against the surface of the recess.

1,946,107
RADIO RECEIVING CIRCUIT

Maurice M. Phillips, South Side Pittsburgh, Pa.

Application November 16, 1928
Serial No. 319,806
12 Claims. (Cl. 250—20)



1. In an apparatus for receiving radio signals, a circuit constituting a stage of tuned radiofrequency amplification succeeded by a detector having a balanced input circuit, the two being operatively coupled to respond over substantially the same wave band, the tuning of one of said circuits broadening as the frequency increases, the tuning of the other of said circuits sharpening as the frequency increases, and a common operating member for tuning both circuits.

1,946,108
PRODUCTION OF CATALYSTS

Mathias Pier, Heidelberg, and Karl Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a corporation of Delaware

No Drawing. Application January 3, 1929, Serial No. 330,135, and in Germany January 6, 1928
11 Claims. (Cl. 23—236)

1. A process for the production of a catalyst of high mechanical stability, which comprises incorporating a small amount of aluminium powder with an aqueous paste of molybdic acid and zinc oxide and kneading the mixture, care being taken that during this treatment the temperature does not rise above about 50° C., and after the metal has been fully incorporated in the mixture, gradually drying the mixture.

1,946,109
PRODUCTION OF CATALYSTS

Mathias Pier, Heidelberg, and Karl Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a corporation of Delaware

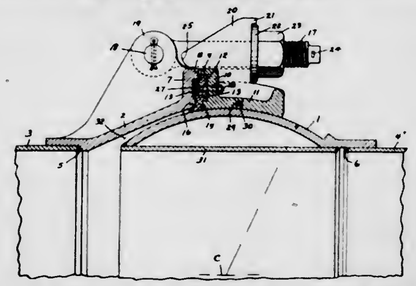
No Drawing. Application July 29, 1931, Serial No. 553,882, and in Germany January 6, 1928
4 Claims. (Cl. 23—236)

1. In the production of solid sulphur immune catalytic masses, the steps of distributing in a paste of the constituents thereof a finely divided metal selected from the class consisting of iron, nickel and cobalt, carbides of the same and alloys containing one of the said metals and gradually drying the resulting mixture.

1,946,110
UNIVERSAL PIPE JOINT

Sidney G. Plummer, Oakland, Calif.

Application April 18, 1933. Serial No. 666,643
11 Claims. (Cl. 285—91)

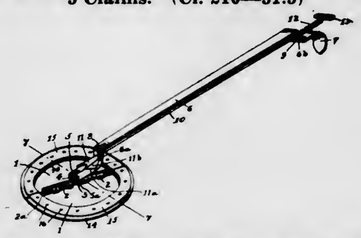


1. A universal pipe joint comprising an inner ball member adapted to be attached to the end of one pipe section, an outer bell member adapted to be attached to the end of the other pipe section, and a socket ring member engaged over the outside of the ball member with a working fit around its largest diameter, outwardly extending circumferential flanges on said socket ring and bell members in confronting relation and annularly recessed within in confronting relation, a resilient gasket ring within the recess in contact with both flanges, a metal ring upon one face of the gasket ring secured thereagainst by means passing into one of said flanges, and means for clamping said flanges together and against opposite sides of said gasket ring.

1,946,111
CREAM SEPARATOR

Sidney S. Radley, South Portland, Maine

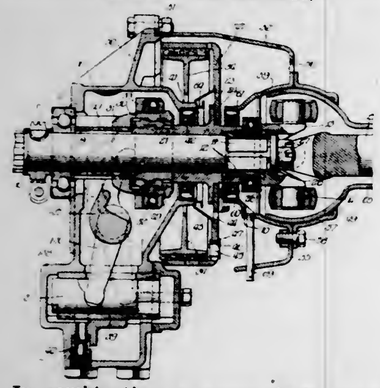
Application March 28, 1933. Serial No. 663,186
5 Claims. (Cl. 210—51.5)



1. A device of the character described comprising two semi-circular plates hinged together on their straight edges, a pin in said hinge, a

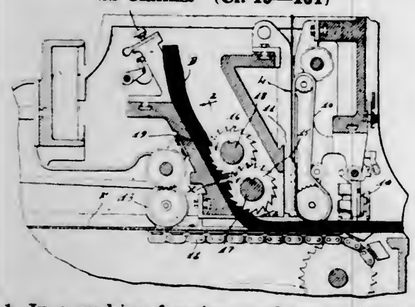
hub member revolubly mounted on said pin, a standard rising from said hub member, and a handle having a forked end pivotally connected to said standard, said handle adapted to swing at a right angle to the direction of rotation of said hub member.

1,946,112
POWER BRAKE CONSTRUCTION
Edward A. Rockwell, Chicago, Ill.
Application June 7, 1929. Serial No. 369,049
7 Claims. (Cl. 188—140)



1. In combination, a power shaft, a Cardan shaft, a universal joint connecting said shafts including a yoke keyed to one end of said power shaft, a thrust bearing mounted on said yoke and a brake drum mounted on said power shaft including a sleeve in abutting relation with said thrust bearing, a casing enclosing said brake drum said casing including a hemispherical portion, a torque tube having a spherical end in bearing relation with said hemispherical portion of said casing and oil sealing means surrounding the sleeve of said brake drum between said brake drum and said torque tube bearing, said oil sealing means being held by a ring-shaped portion extending from said hemispherical portion of said casing.

1,946,113
COTTON BREAKER
Frederick N. Ross, Detroit, Mich., assignor, by mesne assignments, to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application June 16, 1930. Serial No. 461,556
22 Claims. (Cl. 19—161)



1. In a cushion forming mechanism, the combination with finish and lining fabric feeding means, of means for feeding a strip of cotton bat between said finish and lining fabrics, and automatic means for periodically causing said cotton bat feeding means to break said cotton bat strip into separate lengths.

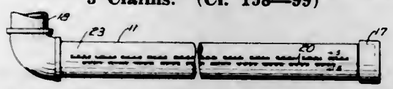
1,946,114
PRODUCTION OF NITROUS OXIDE
Leo Schlecht, Ludwigshafen-on-the-Rhine, and Alfred von Nagel, Mannheim, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application July 25, 1929, Serial No. 381,062, and in Germany August 14, 1928
4 Claims. (Cl. 23—162)

1. The process of producing nitrous oxide which comprises passing ammonia with oxygen over a catalyst promoting the catalytic oxidation of ammonia, at a temperature between about 200° and 550° C. and at so low a speed, that the formation of nitric oxide is substantially suppressed, but sufficiently rapidly to prevent the ammonia from being substantially converted into elementary nitrogen, and removing nitric oxide and higher oxides of nitrogen from the resulting gas.

1,946,115
METHOD OF PRODUCING 3-MENTHONE
Walter Schoeller and Erwin Schwenk, Berlin-Westend, and Erich Borgwardt, Berlin-Pankow, Germany, assignors to Schering-Kahlbaum A. G., Berlin, Germany
No Drawing. Application October 8, 1931, Serial No. 567,766, and in Germany October 17, 1930
5 Claims. (Cl. 260—131)

1. The process of producing 3-menthone comprising heating 3-menthene oxide in contact with a surface catalyst to about 250° C.

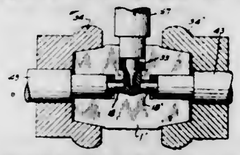
1,946,116
GAS BURNER
John F. Sinton and Kenneth B. Anderson, Los Angeles, Calif., assignors of one-half to Kobe, Inc., Los Angeles, Calif., a corporation of California
Application April 29, 1929. Serial No. 358,829
3 Claims. (Cl. 158—99)



3. A burner of the character described, including: a tubular member having an outer wall with substantially parallel rows of burner slots therein, the slots in said rows extending through said outer wall from the interior to the exterior of said tubular member and being inclined laterally toward a line having the same general extension as said rows of slots; and a perforated wall extending along the interior of said tubular member in position to divide the interior of said tubular member into a fuel delivery passage and an elongated chamber communicating with the inner ends of said slots.

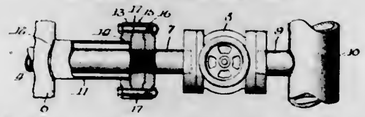
1,946,117
METHOD OF AND APPARATUS FOR EXTRUDING VALVES AND MULTIFLANGED PIPE FITTINGS
Stanley W. Sparks, New York, N. Y., assignor to Charles H. Bickell, trustee, New York, N. Y.
Application November 18, 1929
Serial No. 407,936
8 Claims. (Cl. 78—81)

1. In an extrusion apparatus for making multiway shapes, the combination comprising two opposing aligned slidable, die members, having cavities of a predetermined shape therein, opposing aligned slidable, die-wedging means adapted to reciprocate at right angles to the path of reciprocation of said die members, a plurality of forming-rams so mounted as to be capable of projecting into the respective cavities of the die members, certain of said rams also projecting through and being in slidable engagement with the die-wedging means, means for closing the die members together, and means for causing said



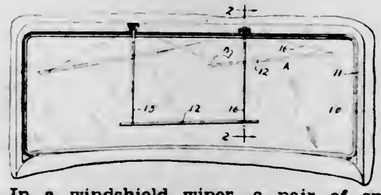
die-wedging means to embrace said die members and securely hold the same in a closed position during the extrusion operation, and means for projecting certain of said rams simultaneously into the die cavities and for projecting another of said rams into the die cavities following the partial projection of the first mentioned rams into the die cavities.

1,946,118
CHAMBER COIL CONNECTION
Thomas E. Stockdale, Hammond, Ind., and George M. Keranen, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application February 9, 1931. Serial No. 514,370
2 Claims. (Cl. 285—22)



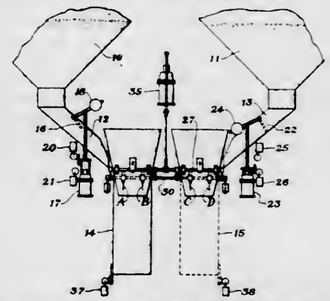
1. A pipe joint for a jacketed pipe comprising, an annular flange member fixed to the outer end of the pipe jacket, a second flange member having a centrally located threaded bore therethrough for receiving the threaded outer end of the jacketed pipe, a third flange member having a central threaded bore therethrough for receiving the threaded end of a pipe to be joined with said jacketed pipe, means for compressing the second flange member between the first named and said third flange member to secure the flanges into close abutting relationship, and means independent of said securing means for axially aligning the said flange members.

1,946,119
WINDSHIELD WIPER
Charles M. Van Auken, Detroit, Mich.
Application July 27, 1932. Serial No. 625,022
5 Claims. (Cl. 15—255)



1. In a windshield wiper, a pair of spaced swingably mounted arms of unequal length, a wiper blade pivotally connecting the free ends thereof and adapted to be moved downwardly and upwardly in substantial parallelism upon swinging of said arms, means for applying force to at least one of said arms to produce such swinging.

1,946,120
MECHANISM FOR AUTOMATICALLY MEASURING COKE BY VOLUME
Arthur J. Whitcomb, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a corporation of Maine
Application May 16, 1932. Serial No. 611,656
9 Claims. (Cl. 214—125)

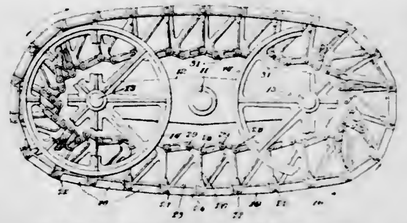


1. In skip hoist mechanism for charging coke to a blast furnace, the combination with skip tubs and supply bins, of means biased to closed position to prevent discharge of the coke from the bins, electrically operated means for opening the biased means, and electrodes constructed and arranged for location within the tubs a definite distance regardless of the position of the tubs within limits with respect thereto, said electrodes employing the electrical conductivity of the coke contacting the same to shut off the coke supply, and means for adjusting the length of the electrodes to vary the level of the coke in the tubs.

1,946,121
DIE LUBRICANT
Robert T. Wood, Lakewood, Ohio, assignor, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
No Drawing. Application May 19, 1931
Serial No. 538,623
2 Claims. (Cl. 87—9)

1. A die lubricant for magnesium base alloys consisting of a suspension of comminuted graphite in carbon tetrachloride.

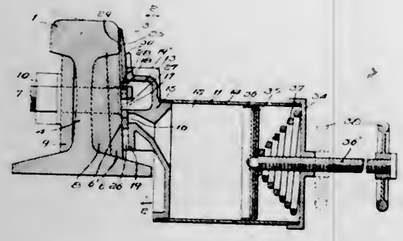
1,946,122
TRUSS WHEEL CONSTRUCTION
Isaac H. Athey, Chicago, Ill., assignor to Athey Truss Wheel Co., Chicago, Ill., a corporation of Illinois
Application October 1, 1928. Serial No. 309,413
3 Claims. (Cl. 305—10)



1. A track chain for a vehicle including a plurality of tread members, bearing lugs integral with said tread members, pintles extending through said bearing lugs pivotally to interconnect the tread members in series, truss members extending inwardly from each tread member, each

truss member having a substantially vertical side at one end of the tread member and a side substantially sloping towards the other end of the tread member and being provided with an integral head which overhangs the sloping side to provide a recess adapted to receive the head of an adjacent track element when the track chain is folded up, pivots on each head, one pivot being located in the overhanging portion of said head and the other pivot being located adjacent the vertical side of the truss arm and being located at a lower level than the first said pivot, links pivotally mounted on the first said pivots and having slidable connection with the second said pivots of adjacent truss arms, whereby said links have their slotted ends deflected outwardly toward the tread members when the track chain is folded about its tread pintles.

1,946,123
RAIL LUBRICATOR
Harry B. Bates, Chicago, Ill., assignor to Maintenance Equipment Company, Chicago, Ill., a corporation of Illinois
Application August 23, 1930. Serial No. 477,266
15 Claims. (Cl. 184—3)

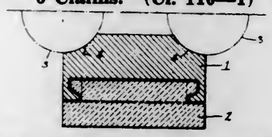


1. In a rail lubricating device of the kind described and in combination, a lubricant carrier plate mounted adjacent the rail in the path of a wheel flange and vertically depressible at the edge face of the rail head by a wheel flange travelling over the plate, said plate provided with a lubricant passage-way adjacent said rail face, and means mounted on said rail at said plate for depositing a lubricant in said passage-way at each upward movement of the plate.

1,946,124
NEUTRAL ADSORBENT AND PROCESS OF MAKING SAME
Daniel S. Belden and William Kelley, Los Angeles, Calif., assignors to Filtrol Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application September 1, 1930
Serial No. 479,126
1 Claim. (Cl. 252—2)

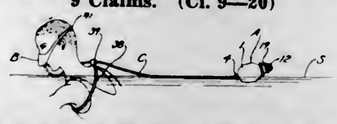
The method of producing a material for decolorizing vegetable oils and organic oils and fats which consists in mixing a quantity of activated clay pulp with a substantial proportion of finely divided clay in air-dry condition, heating the mixture at from 212° F. to 600° F. until an exothermic reaction occurs, then quenching the mixture in from three to five parts by weight of hot softened water and thoroughly agitating the mixture so as to remove the soluble salts therefrom, and then drying the mixture.

1,946,125
LINER BLOCK FOR TUBULAR FLUID-COOLED WALLS
Joseph S. Bennett, Merion, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 7, 1930. Serial No. 459,752
6 Claims. (Cl. 110—1)



1. A liner block for walls comprising a base member and a facing member therefor, one of said members having a recess the opposite sides and one end of which are defined by projecting flanges of said member, the other side of said recess being open, and the other of said members having a projecting element adapted to enter said recess, and said recess and element being provided with oppositely disposed shoulders adapted to interlock to secure said members together, said element being entered in the recess and the shoulders being interlocked by successive relative movements of said members in different directions.

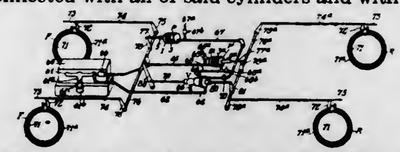
1,946,126
BREATHING DEVICE
William Black, Los Angeles, Calif.
Application July 15, 1932. Serial No. 622,695
9 Claims. (Cl. 9—20)



1. A breathing device for swimmers comprising buoyant supporting means, an air cleaning device mounted upon and supported by said supporting means, said air cleaning device being provided with inlet openings normally positioned above the surface of the water by said supporting means and being operable to separate suspended water particles from air passing therethrough, a protecting housing mounted on said supporting means and inclosing said air cleaning device, said protecting housing being provided with air inlet means and with liquid outlet means and with means for sealing said air inlet means to entirely shut off communication between the interior and exterior of said housing upon submergence of said housing, and means for connecting the interior of said air cleaning device to the breathing organs of a swimmer.

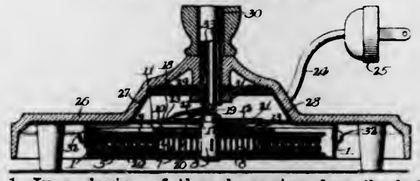
1,946,127
VACUUM BRAKE SYSTEM FOR AUTOMOTIVE VEHICLES
Caleb S. Bragg, Palm Beach, Fla., and Victor W. Kliesrath, South Bend, Ind., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a corporation of New York
Application June 18, 1929, Serial No. 371,763
Renewed July 21, 1933
13 Claims. (Cl. 188—152)

1. In a vacuum brake system for automotive vehicles provided with an internal combustion engine having a throttle controlled suction passage, the combination with a plurality of power actuators, each comprising a cylinder and a piston therein provided with means for connecting it with brake mechanism, certain of said actuators having the piston submerged in vacuum, and certain of said actuators having the piston submerged in a higher pressure fluid, when in the released position, a controlling valve mechanism connected with all of said cylinders and with said



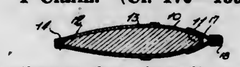
suction passage and with the higher fluid pressure source, and a physically operable part for operating said valve mechanism to substantially simultaneously effect a power stroke of the pistons of all of said actuators.

1,946,128
AUTOMATIC CORD TAKE-UP AND PAY-OUT DEVICE FOR ELECTRIC LAMPS
Louis Brosilow, William Markoff, and John Orosz, Chicago, Ill.
Application November 12, 1931
Serial No. 574,654
6 Claims. (Cl. 240—81)



1. In a device of the character described, the combination with a portable electric lamp construction including a base and a standard connecting pipe engaged with the base, that portion of said pipe engaging the base being extended for a distance below the same, of a casing having an outlet way therein, a reel rotatably received within the casing communicating with the outlet way, a plurality of collector rings carried upon one side of said reel and electrically insulated therefrom, a multiple conductor electric cord engageable about said reel and passing through the outlet way in the casing, certain of the ends of said cord conductors being electrically connected to said rings, contact arms non-rotatably supported by the casing having constant electrical wiping contact with said rings throughout their respective paths of rotary movement, a bracket connected to and disposed over the casing in spaced relation to said contact arms and rings, said bracket engaged with the extended end of the standard connecting pipe, and locking means engaging the extended end of said pipe and said bracket for securing the latter in positive engagement with the under side of the lamp base.

1,946,129
NOISELESS PROPELLER BLADE FOR AIRCRAFT
Joseph Cebulski, Salem, Mass.
Application October 3, 1933. Serial No. 692,016
1 Claim. (Cl. 170—159)

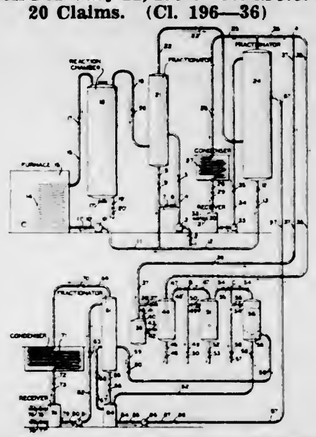


A noise silencer for aircraft propellers comprising a fabric covering for the blades of a propeller and having a soft outer nap surface, and a pair of interfitting relatively thin metallic strips on the leading edges of the blades for protection of the fabric covering, the inner metallic strip being of substantially V-shape with the sides thereof intimately contacting the fabric and its forward edge terminating forwardly of the leading edge of the propeller blade and the outer metallic strip being capped on the projecting edge of the inner strip to aid in holding the latter engaged with the leading edge of the propeller blade.

1,946,130
FERROUS ALLOY
Gregory J. Comstock, Edgewood, Pa., assignor to Firth-Sterling Steel Company, McKeesport, Pa., a corporation of Pennsylvania
No Drawing. Application July 17, 1931
Serial No. 551,547
23 Claims. (Cl. 75—45)

1. The process of making ferrous alloys, comprising dissolving a carbide of a metal of the group consisting of tungsten, chromium, molybdenum, vanadium, titanium, tantalum, zirconium, thorium, uranium and columbium in a ferrous alloy bath maintained under substantially non-oxidizing conditions, the addition being made shortly before teeming and without opportunity for thorough dissemination of the carbide, thereby resulting in areas locally enriched in carbide components which act as nuclei for the reprecipitation of hard carbides on cooling, and casting to reprecipitate a hard carbide.

1,946,131
TREATMENT OF HYDROCARBON OILS
Richard F. Davis, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
Application February 11, 1931. Serial No. 514,920
20 Claims. (Cl. 196—36)

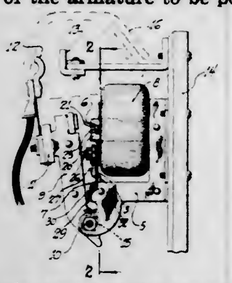


1. The method of treating the dephlegmated gasoline vapors of a hydrocarbon oil cracking process which comprises contacting the dephlegmated cracked gasoline vapors with dry sulphur trioxide, separating the heavy reaction products thus formed, and finally condensing the treated vapors.

1,946,132
ELECTRIC SWITCH
Albert J. Dawe, Milwaukee, Wis., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 6, 1931. Serial No. 535,414
9 Claims. (Cl. 200—103)

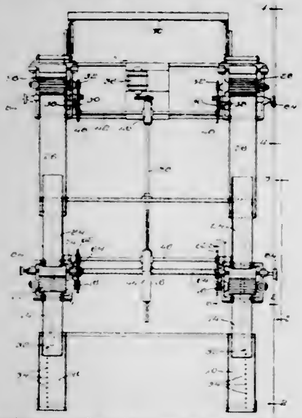
1. In combination with an electromagnet having spaced pole pieces and a solenoid, an arma-

ture movable to the pole pieces to closed position upon energization of the solenoid, a movable stop having a part normally overlying one pole piece in the path of the armature to be positioned be-



tween said pole piece and the armature and prevent accidental closure of the armature, and means to automatically move the stop out of the path of the armature upon energization of the solenoid.

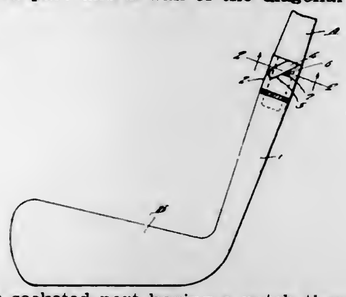
1,946,133
TESTING APPARATUS
Otto Darrel Du Bois, South Bend, Ind., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., New York, N. Y., a corporation of Delaware
Application April 16, 1928. Serial No. 270,192
10 Claims. (Cl. 265—25)



9. Testing mechanism comprising, in combination, a support for the front wheels of a car, a carriage arranged to support the rear wheels of the car, and means on said carriage adapted to be frictionally engaged by said rear wheels whereby said carriage is automatically shifted due to the driving force of the rear wheels to an operative position under said rear wheels so as to accommodate the wheel base of the car.

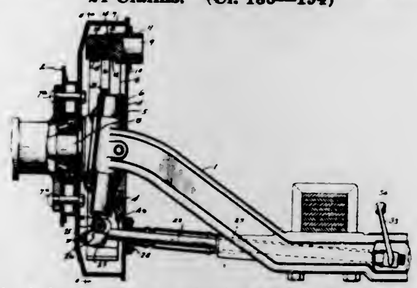
1,946,134
GOLF CLUB
Walter L. Dyce, Webster, S. Dak.
Application March 27, 1933. Serial No. 663,063
2 Claims. (Cl. 273—80)

1. Means for connecting one member to another comprising a socket in one member and a reduced portion on the other member for entering the socket, the socketed part having a diagonally arranged groove therein and the reduced part having a diagonally arranged tongue thereon for entering the groove and locking means for frictionally holding the parts together, said locking means comprising a detent carried by the reduced part and a wall of the diagonal groove



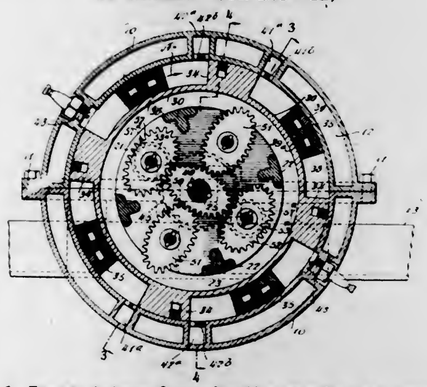
in the socketed part having a notch therein for receiving the detent.

1,946,135
MOTOR VEHICLE BRAKE
Edwin R. Evans, Detroit, Mich.
Application September 4, 1923. Serial No. 660,856
24 Claims. (Cl. 188—194)



1. A brake for a vehicle wheel, swivelled for steering movement, comprising a brake drum carried by said wheel, a member frictionally engageable with said drum, an actuating element for said member, and an actuating connection between said element and member yieldable relative to said member in a predetermined position of swivel movement of the brake drum and wheel.

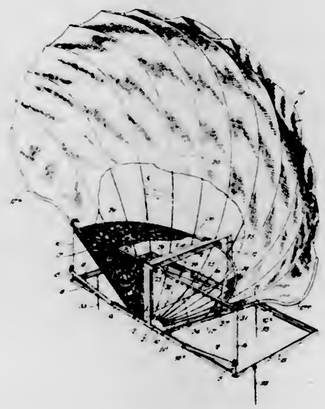
1,946,136
INTERNAL-COMBUSTION ENGINE
Francis S. Farley, Trenton, N. J.
Application July 26, 1926, Serial No. 124,798
Renewed August 12, 1932
23 Claims. (Cl. 123—11)



1. In an internal combustion engine, an outer casing having intake and outlet ports and igni-

tion means arranged at spaced intervals about said casing, a pair of rotors each provided with a plurality of equally spaced piston blocks, said rotors, casing and piston blocks defining a plurality of combustion chambers, a reaction support fixed within said casing, a driving shaft rotatably mounted in said casing a third rotor secured to said driving shaft and driving mechanism including two similar epicyclic gear trains, one between each of said pair of rotors and said third rotor, and a third epicyclic gear train consisting of a plurality of elliptical gears interposed between said third rotor and said reaction support.

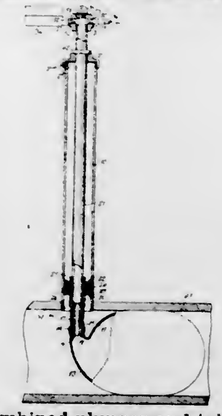
1,946,137
COMBINED BEACH BENCH, LOCKER, AND SUNSHADE
Carl A. Frost, Chicago, Ill., assignor of one-half to Franklin P. Smith, Chicago, Ill.
Application February 3, 1933. Serial No. 654,989
18 Claims. (Cl. 155—1)



5. A unitary beach structure in which is comprised a rectangular base frame, an upright cross frame rising therefrom, upright frame bars at the front corners of the base frame, oblique frame bars connecting said base frame with the upright frame bars, said oblique frame bars being extended to provide end ribs of a sunshade, other ribs mounted on said base frame, covering material connecting all of said ribs to form a sunshade, and seat sections swingably mounted on said cross frame, and having locking connections with said upright frame members.

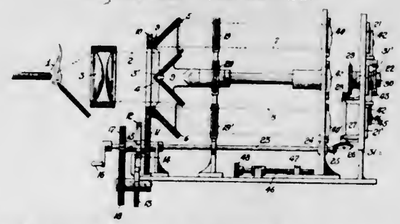
1,946,138
PNEUMATIC STOPPER FOR GAS-MAINS
Willis W. Gardner, Meriden, Conn.
Application April 15, 1932. Serial No. 605,493
3 Claims. (Cl. 137—76)

1. A portable pneumatic stopper for gas-mains having a tubular bag-housing threaded at its inner end for direct application to a "tapping" in a gas-main, a combined plunger and air-tube mounted in the said housing and having its lower end threaded, a piston-packing mounted upon the said combined plunger and air-tube, and a deflatable bag having a neck, and a nipple permanently mounted in the said neck and provided at its outer end with a threaded socket for being readily detachably applied to the threaded inner



end of the combined plunger and tube at a point below the said piston-packing.

1,946,139
PROJECTOR FOR DOUBLE DISSOLVING EFFECTS
Theodore O. Hall, New York, N. Y., assignor to Hall & Connolly, Inc., New York, N. Y., a corporation of New York
Application November 15, 1930
Serial No. 495,811
10 Claims. (Cl. 88—24)

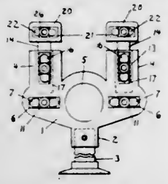


3. A projector lamp for dissolving picture effects comprising a single light source, a rotatably mounted double V-shaped reflector for splitting the light beam and adapted to be intermittently rotated to a plurality of positions, a fixed reflector for each position to project a beam parallel to the original beam but spaced therefrom, object holders and lenses for each position of said spaced beams, a shutter for each of said lenses, and a common means for intermittently rotating said reflector and for operating the shutters in sequence therewith for producing a succession of dissolving pictures.

1,946,140
CARRIER CHAIR FOR WATER CLOSET BOWLS
John Heinkel, Rock Island, Ill.
Application May 22, 1933. Serial No. 672,259
3 Claims. (Cl. 4—252)

1. A device of the class described, comprising a plate, provided with a pair of horizontal recesses and slots in the rear thereof, bolts passing through said recesses and slots and provided with nuts on both of said ends, nuts on said bolts slidable in said recesses, auxiliary plate supported above said first-named plate and provided with horizontal recesses and slots in rear thereof, means for verti-

cal adjustment of said auxiliary plates, bolts passing through said last-named recesses and slots

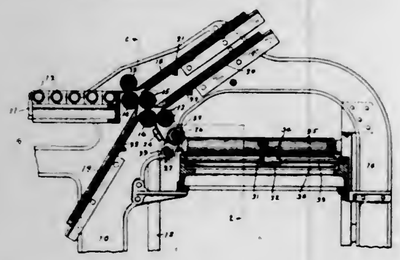


and provided with nuts on their ends, and nuts on said last-named bolts slidable in the recesses in said auxiliary plates.

1,946,141
WRAPPING PAPER
Walter W. Herrick, Milford, N. J., assignor to Riegel Paper Corporation, Riegelsville, N. J., a corporation of New Jersey
No Drawing. Application April 1, 1932
Serial No. 602,633
6 Claims. (Cl. 92—21)

1. As a new article of manufacture, a heat-sealable opaque wrapping paper for food stuffs loaded with titanium dioxide and with a coating of wax applied directly to one or both sides thereof.

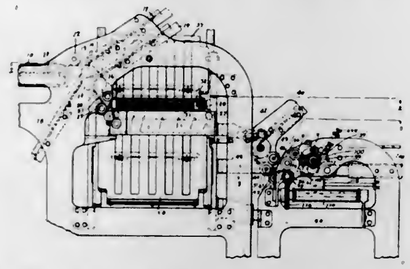
1,946,142
PAPER HANDLING MACHINE
Reuben Hitchcock, Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a corporation of Ohio
Application May 16, 1927, Serial No. 191,688
Renewed April 14, 1931
46 Claims. (Cl. 270—68)



1. In a paper handling machine, feeding means, means for cutting a sheet into sections as it passes through said feeding means, a cross carrier onto which said sections are fed in side by side relation, means in connection with said cross carrier adapted to engage the surfaces of sheets passing thereover for moving said sections thereupon in the same direction transverse to the movement of the sheet through said feeding means, and folding means at the delivery end of said cross carrier.

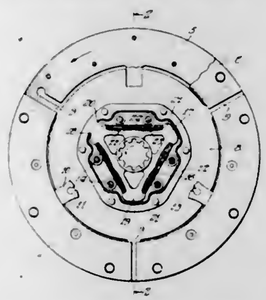
1,946,143
PAPER HANDLING MACHINE
Reuben Hitchcock, Bratenahl, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a corporation of Ohio
Application March 22, 1928. Serial No. 263,891
25 Claims. (Cl. 271—64)

1. In a paper handling machine, a sheet feeding carrier adapted to provide single file untimed travel of sheets carried thereon, a sheet deflector at the delivery end of said carrier adapted to assume a plurality of different positions, whereby the sheets may be directed into a plurality of different courses, and means for mov-



ing said deflector from one position to another, said means being adapted to be set in motion by the travel of each sheet, and to maintain the deflector in set position until the next sheet passes.

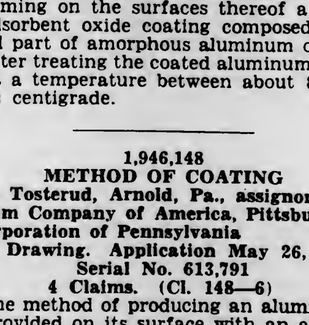
1,946,144
FLEXIBLE DAMPER CLUTCH PLATE ASSEMBLY
William F. Hughes, Chicago, Ill., assignor to Perfection Gear Co., Chicago, Ill., a corporation of Illinois
Application May 18, 1932. Serial No. 611,998
12 Claims. (Cl. 192—68)



1. In a clutch, a clutch plate, a hub, and a yielding driving connection therebetween comprising an elongated resilient member supported at three spaced points and a pair of spaced drive members bearing against said resilient member between its points of support, said members being so positioned on the hub and plate that angular movement between the hub and plate urges one of the drive members toward and the other away from the resilient member.

1,946,145
WINCH
Almon A. Johnson, Superior, Wis., assignor to Superior Iron Works Company
Application June 22, 1931. Serial No. 546,017
13 Claims. (Cl. 254—172)

1. The combination of a shaft, a cable drum journalled on said shaft, a brake wheel journalled on said shaft, a brake band mounted on said wheel, means for putting said band under tension, a prime mover, means connected to said brake band for automatically governing the admission of energy to said prime mover, means for transmitting motion from said prime mover



to said shaft, and means for transmitting motion from said shaft to said drum and brake wheel.

1,946,146
INORGANIC INSULATION FOR ELECTRICAL SHEETS
George C. Kiefer, Springdale, and Charles A. Scharschu, Brackenridge, Pa., assignors to Allegheny Steel Company, a corporation of Pennsylvania
No Drawing. Application June 18, 1931
Serial No. 545,370
14 Claims. (Cl. 175—21)

3. The method of insulating metal sheets adapted for use in electrical apparatus including the steps of passing such sheets through a solution consisting of about 2 parts of sodium silicate, about 1 part of water, and about 1.8 parts of chromic acid, passing them through a set of rolls to wipe off excess solution, drying and baking at a temperature high enough to drive off excess water, to form a precipitate and to bake the precipitate when formed onto the sheets.

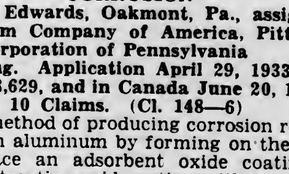
1,946,147
COATED ALUMINUM AND ALUMINUM ALLOY
Helmer Bengston, Indianapolis, Ind., assignor to Aluminum Colors Incorporated, Indianapolis, Ind., a corporation of Delaware
No Drawing. Application November 20, 1931
Serial No. 576,431
5 Claims. (Cl. 148—6)

1. The method of coating aluminum comprising forming on the surfaces thereof a pervious and adsorbent oxide coating composed in substantial part of amorphous aluminum oxide and thereafter treating the coated aluminum in water held at a temperature between about 80 to 100 degrees centigrade.

1,946,148
METHOD OF COATING
Martin Tosterud, Arnold, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application May 26, 1932
Serial No. 613,791
4 Claims. (Cl. 148—6)

2. The method of producing an aluminum article provided on its surface with an aluminum oxide coating having an adsorbed soluble substance substantially permanently bound therein, comprising producing on said aluminum surface an adsorbent, amorphous aluminum oxide coating by anodic oxidation, adsorbing in said coating the desired soluble substance by treating with a solution of said substance, and subsequently reducing the permeability of the oxide coating by treating in water held at a temperature of about 80° to 100° centigrade.

1,946,149
HAM BOILER AND THE LIKE
Harry V. Churchill, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 13, 1931. Serial No. 550,442
3 Claims. (Cl. 148—32)



1. As an article of manufacture an aluminum cooking vessel provided on its surface with a coating resistant to prolonged and repeated exposure to the action of corrosive foods, said coating comprising an adherent adsorptive oxide coating having adsorbed therein a substantial amount of a corrosion-inhibiting soluble sodium silicate having a ratio of SiO_2 to Na_2O of at least about 3.25.

1,946,150
COATING OF ALUMINUM
Martin Tosterud, Arnold, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application May 15, 1931
Serial No. 537,754
13 Claims. (Cl. 204—1)

1. The method of producing white coatings on aluminum or aluminum alloy articles comprising forming on the metal surface an adherent oxide coating and subjecting said coating to a non-electrolytic treatment with a solution of an acid.

1,946,151
PROTECTING ALUMINUM FROM CORROSION
Junius D. Edwards, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application April 29, 1933, Serial No. 668,628, and in Canada June 20, 1931
3 Claims. (Cl. 148—6)

1. A method of protecting aluminum surfaces against corrosion, comprising depositing on the aluminum surface an adsorptive oxide coating, thereafter impregnating said oxide coating with a chromic acid solution, and drying the impregnated coating without washing.

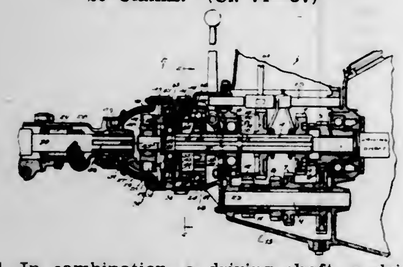
1,946,152
PROTECTING ALUMINUM FROM CORROSION
Junius D. Edwards, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application April 29, 1933, Serial No. 668,629, and in Canada June 20, 1931
10 Claims. (Cl. 148—6)

1. The method of producing corrosion resistant coatings on aluminum by forming on the aluminum surface an adsorbent oxide coating and thereafter treating said coating with a chromate solution.

1,946,153
PROTECTING ALUMINUM FROM CORROSION
Junius D. Edwards, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application April 29, 1933, Serial No. 668,630, and in Canada June 20, 1931
11 Claims. (Cl. 148—6)

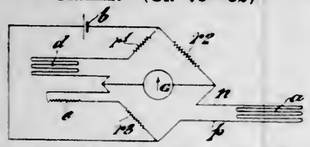
1. In a method of treating aluminum articles to render the surface thereof resistant to prolonged exposure to corrosive influences, forming on the surface of the article an adsorbent oxide coating, and thereafter adsorbing silicate in said coating from a silicate solution, said silicate after adsorption being resistant to solution by washing with water.

1,946,154
TRANSMISSION FOR AUTOMOBILES
Thomas L. Fawick, Racine, Wis., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a corporation of New York
Application September 26, 1924
Serial No. 739,999
20 Claims. (Cl. 74—57)



1. In combination, a driving shaft, a driven shaft in line therewith, a pinion gear on one shaft, an internal gear on the other shaft, an eccentric ring gear meshing with both the pinion gear and the internal gear, said pinion gear and said internal gear having co-acting axially engageable clutch parts, and means for shifting one of said gears out of mesh with the ring gear and thereafter causing engagement of said clutch parts.

1,946,155
TEMPERATURE MEASURING DEVICE
Charles Edwin Foster, Letchworth, England
Application July 31, 1929, Serial No. 382,448, and in Great Britain December 21, 1928
7 Claims. (Cl. 73—32)



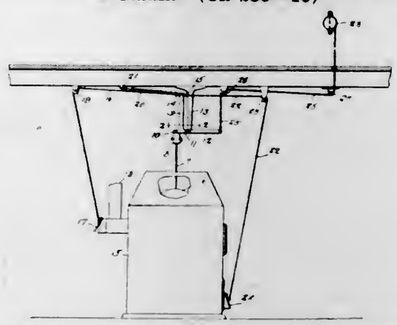
1. A thermometer of the Wheatstone bridge type for indicating the temperature of a building, comprising an electric measuring instrument of the galvanometer type, a battery, resistances in the first, second and fourth arms of the bridge, two elongated thermo-resistance bulbs, a localized resistance bulb, means for reducing the time lag of the elongated bulbs, one of the elongated thermo-resistance bulbs being adapted to be arranged outside the building and coupled in series with the resistance in the first arm of the bridge, the localized bulb being in series with resistance in the fourth arm of the bridge, the other elongated bulb being in the third arm of the bridge while the third resistance is in the second arm of the bridge.

1,946,156
CHECK FOR STEERING MECHANISM
Brenner B. Fox, San Antonio, Tex., assignor of one-third to Herman Beyer, San Antonio, Tex.
Application September 17, 1932
Serial No. 633,670
1 Claim. (Cl. 280—89)



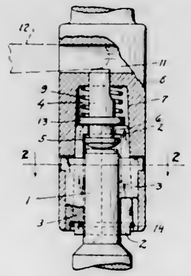
A steering check for vehicles comprising a casing, means to connect said casing with an axle of a vehicle intermediate the length of the axle and support the casing in a horizontal position, a shaft extending vertically in said casing and rotatably mounted with a portion projecting from the casing, a fly wheel rotatable about said shaft within the casing, a train of gearing in the casing for transmitting rotation from said shaft to said fly wheel, an arm fixed to said shaft externally of the casing and projecting radially from the shaft to extend towards a tie rod of a steering gear, and a yoke pivoted to said arm and having diverging arms terminating in rod engaging clamps.

1,946,157
AUTOMATIC DRAFT REGULATOR
Frank M. Garman, Neillsville, Wis.
Application January 28, 1932. Serial No. 589,503
1 Claim. (Cl. 236—16)



The combination with the chimney check draft and ash pit door of a furnace, of a draft control device comprising a depending bracket above the furnace, a horizontal lever pivotally connected to the bracket near one end of the lever, providing a long end and a short end, a vertical control arm, a transversely disposed extension formed integral with the control arm at the lower end thereof, a vertical rod extending through the furnace top and engaging the dome of the furnace, one end of the transverse extension being pivotally connected to the upper end of the rod, the opposite end of the extension being pivotally connected with the short end of the lever, a cable connected to the control arm and having connection with the chimney check draft, a cable connected to the opposite side of the control arm and having connection with the ash pit door, whereby movement of the control arm will act to move the check draft and ash pit door, a cable connected to the lever, and a thermostat for controlling movement of the lever.

1,946,158
CLAMPING CHUCK FOR TOOLS
Heinrich Görg, Detroit, Mich.
Application August 8, 1928, Serial No. 298,369, and in Germany April 23, 1928
15 Claims. (Cl. 279—55)



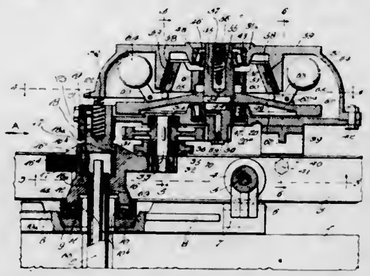
5. A clamping chuck for tools having a substantially cylindrical shank including in combination a conically recessed chuck body portion, a plurality of members axially slidable within the recess for clamping said shank substantially throughout its entire cylindrical surface, and auxiliary means positioned between said first mentioned members secured against rotation within the recess for engagement with a non-cylindrical longitudinal peripheral surface portion of the shank upon minute rotation of the latter within the recess.

1,946,159
PROTEIN SOLUTION AND NEW PROTEIN DERIVATIVE AND PROCESS OF MAKING SAME
Charles Graenacher, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application January 4, 1932, Serial No. 584,757, and in Switzerland January 27, 1931
21 Claims. (Cl. 106—38)

1. A manufacture of solutions of proteins, this term comprising the protein-like degradation products of the proteins which still show the biuret reaction, by dissolving the proteins in a liquefied quaternary ammonium salt obtained by addition of a halogen hydracid ester of an alcohol containing not more than 8 carbon atoms to a tertiary amine of the pyridine series.

1,946,160
REVOLVING DOOR SPEED CONTROL
Thurloe M. Hagenbook, Evansville, Ind., assignor to International Steel Company, Evansville, Ind., a corporation of Indiana
Application September 10, 1932
Serial No. 632,627
5 Claims. (Cl. 20—18)

1. In a revolving door construction, an overhead track, a casing mounted in a stationary position adjacent said track, a vertical shaft carrying radial door-wings, said shaft being rotatably mounted and shiftable along said track into and out of position adjacent the casing, and means in the casing for controlling rotation of the shaft

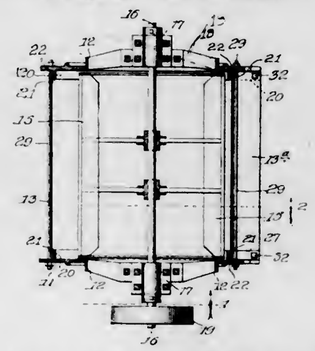


operatively connected with the shaft when the shaft is in a set position adjacent the casing.

1,946,161
METHOD OF MANUFACTURING LOW-CARBON CHROMIUM ALLOYS
Ture Robert Haglund, Stockholm, Sweden
No Drawing. Application September 12, 1932, Serial No. 632,865, and in Sweden September 19, 1931
11 Claims. (Cl. 75—22.5)

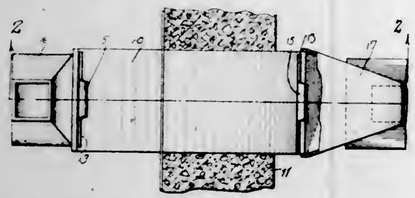
1. A process of decarburizing chromium alloys by reaction with a slag bath containing chromium oxide, which comprises heating said slag bath by means of electrodes operating in electrical connection with the top portion of said slag bath, and successively adding fine particles of a chromium alloy high in carbon, said added particles being spread in the slag by means of the stirring effect caused by the carbon monoxide evolved in the slag by the reaction between the chromium oxide of the slag and the carbon content of the added particles of chromium alloy.

1,946,162
BLOWER
Bryce M. Hess, Chicago, Ill.
Application June 6, 1932. Serial No. 615,665
6 Claims. (Cl. 230—133)



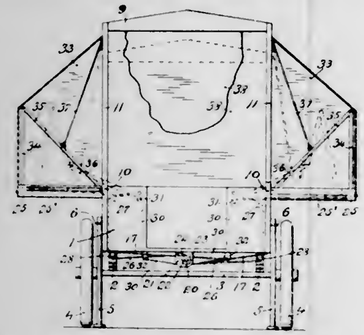
1. A blower-casing comprising end-walls, a scroll member therebetween, means restraining the ends of said scroll member, means carried by the end walls presenting inclined surfaces to contact the edges of said member operating in the assembling of said walls and member to force said member and said last-named means into tight-joint-forming condition, and means holding said walls and member in assembled condition.

1,946,163
FILTER
Gregory T. Hiett, Delphos, Ohio
Application April 15, 1931. Serial No. 530,343
1 Claim. (Cl. 210—88)



In a filter of the character described, the combination with a building wall having an inclined opening therein and a cistern at the inner side of the wall below the opening, of a filter consisting of a tubular member closed on all sides, open at its ends and placed in the inclined opening in the wall with the lower end of the tubular member disposed above the cistern, an inlet fitting on the outer upper end of the filter in communication with a downspout, an outlet fitting at the lower end of the filter having a sealed connection with the upper end of the cistern and a screen slide gate at each end of the filter inwardly of the inlet and outlet fittings.

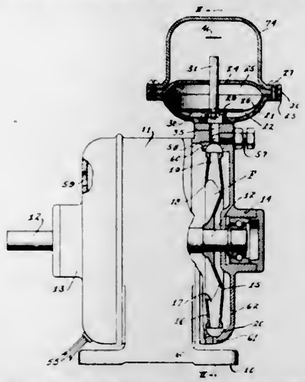
1,946,164
VEHICLE
Jasper Earl Houdashelt, Kansas City, Mo.
Application December 7, 1931. Serial No. 579,636
7 Claims. (Cl. 296—23)



1. In a vehicle, a vehicle bed, standards, means pivotally connecting said standards with said bed upon which said standards may be swung to and from the vertical position, a roof over said bed, and means supported by said standards when the latter are in the vertical position for raising and lowering said roof.

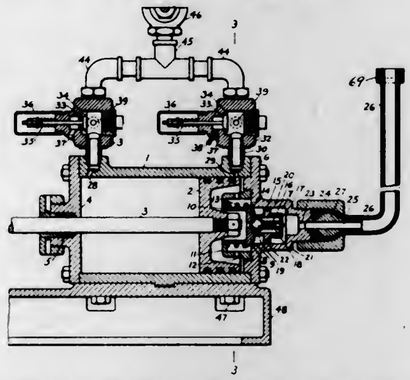
1,946,165
PNEUMATICALLY OPERATED CUT-OUT FOR ALTERNATING CURRENT MOTORS
George H. Irwin, Chicago, Ill.
Application July 5, 1932. Serial No. 620,758
5 Claims. (Cl. 172—279)

1. A unitary alternating current motor structure comprising a motor frame, a rotor, a starting winding and a running winding, a fan rotor within the motor frame connected to be driven by the motor rotor, a switch structure mounted on said motor frame, and means responsive to pressure set up in said motor frame by said fan rotor for operating said switch structure to open



the circuit of said starting winding after a predetermined pressure has been reached.

1,946,166
PUMP
Andrew J. Kovach, Rochester, Pa.
Application December 5, 1932. Serial No. 645,734
9 Claims. (Cl. 230—46)

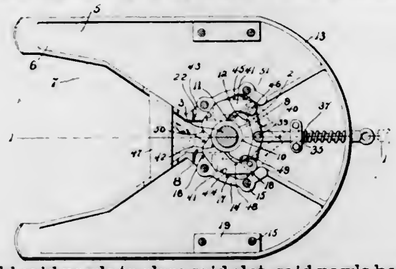


1. In a pump, the combination with a cylinder provided with air ducts at its front and rear ends, of a piston slidably supported in said cylinder, covers at the front and rear ends of said cylinder, valve housings connected with said air ducts, intake and exhaust valves in said housings, a common pipe extending from said exhaust valves, a housing in said front cylinder cover, supplementary intake and exhaust valves in said cover housing, and a flexible pipe extending from said cover housing and adapted for testing air operated devices.

1,946,167
FIFTH WHEEL LOCK
Lubbert E. Lubbers, Stoughton, Wis., assignor to The New Stoughton Company, Stoughton, Wis., a corporation of Wisconsin
Application November 24, 1933
Serial No. 699,612
12 Claims. (Cl. 280—33.1)

1. In a fifth wheel, a lower plate having a king pin receiving slot with a pin seat at one end, approximately arcuate latchways in said plate at either side of said seat, a pair of latch pawls

located in said latchways and yieldable means to



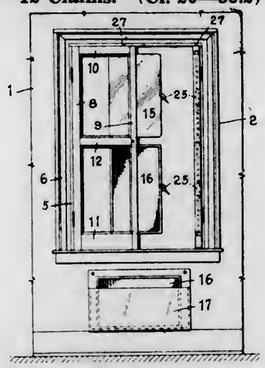
hold said pawls to close said slot, said pawls having king pin seat surfaces.

1,946,168
TIRE COVER
George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Asbury Park, N. J., a corporation of Delaware
Application June 8, 1931. Serial No. 542,788
7 Claims. (Cl. 150—54)



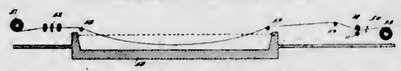
2. A tire cover or the like having a substantially planar face ring of rigid, form sustaining material, whose inner edge is complete and substantially circular, and a molding receiving, binding, protecting and ornamenting said inner edge, comprising a channeled ring of metal or the like having its channel opening radially outwardly and being resilient to be snapped into place on said inner edge.

1,946,169
SASH CONSTRUCTION
Alexander MacKenzie, Philadelphia, Pa.
Application August 30, 1932. Serial No. 631,088
12 Claims. (Cl. 20—56.2)



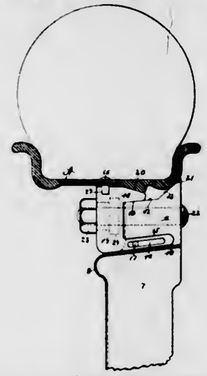
1. A sash construction including a pair of cooperating casement sashes each having a stile provided with a slot opening therethrough to admit a removable light, in combination with an astragal detachably connected to each of said stiles having a portion overlying and closing the slot therein and having a right angularly disposed jamb portion adapted to overlie a portion of one face of the corresponding stile of the cooperating sash.

1,946,170
SHEET OR STRIP FEEDING MECHANISM
Erik W. Mikaelson, Easton, Pa., assignor to Treadwell Engineering Company, Easton, Pa., a corporation of Pennsylvania
Application August 5, 1932. Serial No. 627,631
11 Claims. (Cl. 271—2.3)



1. A mechanism of the class described, comprising in combination, two parallel rollers, means for driving one of said rollers, means for adjusting said rollers bodily toward or away from each other, and means for disconnecting said driven roller from said drive means when said rollers are separated.

1,946,171
MOTOR VEHICLE WHEEL CONSTRUCTION
Philip M. Miller, Youngstown, Ohio, assignor to Miller Devices Inc., New York, N. Y., a corporation of New York
Application August 22, 1929. Serial No. 387,776
5 Claims. (Cl. 301—12)

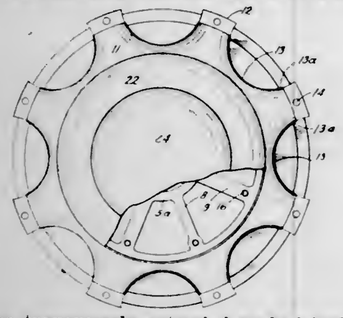


1. In a wheel assembly for motor vehicles, the combination with a tire rim, of a rim-clamping device which is substantially bifurcated in form and provided with a wedge portion and substantially parallel spaced arms, a spider member having a free spoke end which terminates in a reduced end portion forming a ledge adapted to support the rim-clamping device and provide bearing surfaces for the said arms, the periphery of the reduced end portion forming a bearing surface for said wedge portion and the tire rim, and a clamping bolt passed through the rim-clamping device and reduced end portion of the spoke.

1,946,172
CAST SPIDER CONSTRUCTION
Philip M. Miller, Cleveland, Ohio, assignor to Miller Devices Inc., New York, N. Y., a corporation of New York
Application April 17, 1930. Serial No. 445,068
9 Claims. (Cl. 301—6)

2. A wheel assembly for motor vehicles comprising a cast metal spider member of integral construction and formed with a hub barrel and

ribs which project radially from said barrel in spider formation for the greater portion of the wheel diameter, to thereby reduce the amount of metal comprised in the spider and provide a central ventilating chamber, said ribs at their outer ends merging into the outboard side of an



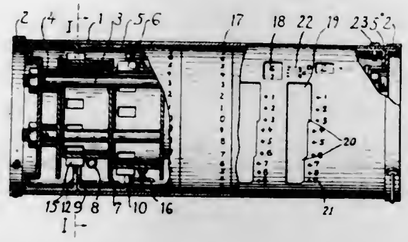
annular transversely-extended spoked body wall which is projected radially in arched formation defining relatively short hollow spokes, a brake drum secured to the inner side of the wheel closing off the inboard side of the spokes, and a nave-covering shell demountably secured to the hub and covering the open central area of the wheel.

1,946,173
GARMENT
Samuel I. Miller and Martin Boriski, Houston, Tex.
Application June 13, 1931. Serial No. 544,170
2 Claims. (Cl. 2—248)



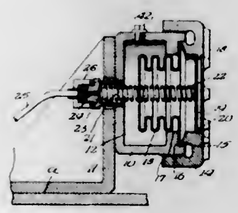
1. A pocket adapted to be attached to a garment having a slit therein and comprising a sack having a mouth, a reinforcing strip across the mouth of the pocket which is folded over forming a lip, the upper margin of the outer side of said sack being extended between the plies of said lip to the fold thereof, and being stitched to the lip, the lower margin of the inner ply of said lip being folded over and secured to said outer side of the pocket and the outer ply of the lip being extended beneath the inner ply thereof and the lower margin of said outer ply being stitched both to the material of the garment and to the outer side of the sack, the material of the inner side of the pocket being extended upwardly above the mouth of said pocket and a guard strip extending entirely across the pocket opposite the mouth of the pocket, said guard strip being secured to the material of the inner side of said pocket.

1,946,174
ADDING MACHINE
Max M. Munk, Washington, D. C.
Application August 13, 1932. Serial No. 628,723
6 Claims. (Cl. 235—80)



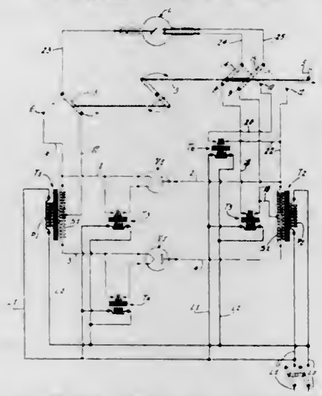
4. A keyless adding machine comprising a housing, a plurality of number cylinders mounted in the housing and rotatable from outside through setting slots of variable width in the housing, and resilient and continuous gearing means between adjacent number cylinders.

1,946,175
WATER INDICATOR
Fred. K. Murphy, Raymond W. Retterer, and Frank K. Mitchell, Indianapolis, Ind.
Application December 28, 1928
Serial No. 328,950
1 Claim. (Cl. 73—54)



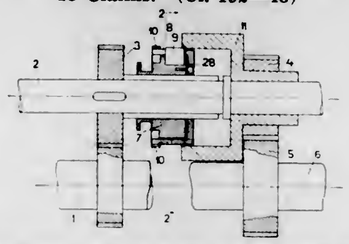
A gauge device for indicating the amount of liquid in a tank, comprising a casing adapted to be immersed in the bottom portion of the liquid in the tank and comprising a cylindrical side wall and a cross wall at one end of the side wall, an imperforate diaphragm of the bellows type disposed within the other end of the side wall, a ring-shaped member for clamping the margin of the diaphragm to said other end of the side wall, the liquid in the tank being adapted to pass to the diaphragm through the opening in the ring-shaped member, a perforated strainer disposed in said opening in the member and operative to strain the liquid as it passes through the opening, a liquid body in the space within the casing that is defined by the inner faces of the side wall, cross wall and diaphragm, said liquid body being adapted to be displaced by movement of the diaphragm, a pipe leading from the aforesaid space for accommodating the displaced portion of the liquid body, an indicator device connected to the pipe and operated by the displaced portion of the liquid body in the pipe to indicate the amount of liquid in the tank, a spring disposed in the space for the liquid body and applied to the diaphragm, and a second spring between said diaphragm and the strainer.

1,946,176
X-RAY SYSTEM
Arthur Mutscheller, New York, N. Y., assignor to Wappler Electric Company, Inc., a corporation of New York
Application January 19, 1931. Serial No. 509,554
8 Claims. (Cl. 250—34)



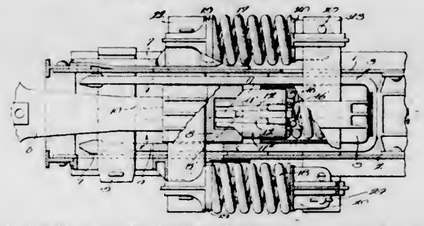
1. In an X-ray device the combination with an X-ray tube of a pair of high tension transformers and a source of electrical energy therefor, said transformers being provided with secondary windings, one of said secondary windings having each of its ends connected to the filament of separate thermionic valve tubes, the other secondary winding having each of its ends connected to the anode of each of said thermionic valve tubes, a high tension switch provided with a plurality of terminals and adapted to assume two positions, means for connecting an intermediate point of each of said secondary windings to said switch, said switch in one position arranged to connect one end of each secondary winding to the anode and cathode respectively of said X-ray tube, said switch in its other position arranged to connect the intermediate point of each of said secondary windings with the anode and cathode respectively of said X-ray tube, and means for heating the filaments of said thermionic valve tubes and said X-ray tube.

1,946,177
CLUTCHING MECHANISM
Egon Neurath, Kai, Vienna, Austria
Application October 21, 1930, Serial No. 490,271, and in Austria November 2, 1929
13 Claims. (Cl. 192—48)



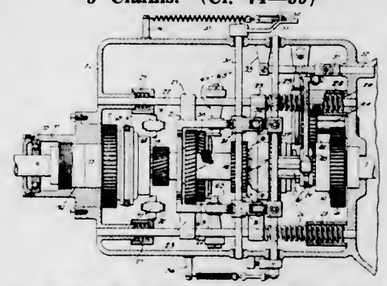
1. A clutching mechanism comprising a driving member and a driven member displaceable axially one with respect to the other, one of said members being hollow and adapted to receive the other member, one of said members having a smooth circumferential surface and the other member having circumferential cam surfaces and a set of rollers supported thereon so as to be capable of rolling on said cam surfaces and of being pressed by the cam surfaces against the smooth circumferential surface of the other member on the one member being inserted in the other, and means positively operative to prevent the one member from being axially moved into the other so long as the driving member is rotating faster than the driven member.

1,946,178
DRAFT GEAR
Herman C. Priebe, Blue Island, Ill.; Thomas H. Taylor, administrator of said H. C. Priebe, deceased
Application October 31, 1929. Serial No. 403,817
1 Claim. (Cl. 213—33)



A draft gear including hollow inner and outer followers disposed mouth to mouth, said inner follower being in the form of a spring barrel; a member coupled and moving with the outer follower, said member having a notch therein receiving a hook upon the said follower; a pair of wedge shaped members one on each side of the first member coupled and moving with the inner follower; members having friction producing engagement with the outer follower in a plane oblique to the direction of movement of the outer follower and with the wedge shaped members coupled with the inner follower, said friction producing members entering the barrel forming the inner follower; a spring bottomed in the inner follower and pressing on said friction producing members, and another smaller spring bottomed in the inner follower within the first mentioned spring and pressing upon the member coupled with the outer follower, said member also entering said spring barrel.

1,946,179
AUTOMATIC POWER TRANSMISSION MEANS
Frederick Slavek, New York, N. Y.
Application March 3, 1932. Serial No. 596,634
5 Claims. (Cl. 74—59)



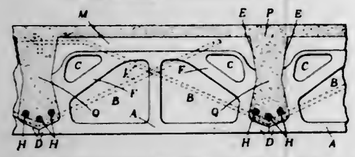
1. In a device of the class described, a drive shaft, a driven shaft, a counter shaft geared to the driven shaft, a hollow shaft, a splined shaft on which the hollow shaft is supported for sliding movement thereon and for rotary movement

therewith, clutch means for connecting the splined shaft with the drive shaft, spiral gears of different sizes on the hollow shaft, spiral gears of different sizes on the counter shaft for meshing with the gears of the hollow shaft, a clutch part having spiral teeth, on the hollow shaft, a clutch part, having spiral teeth, connected with the driven shaft, and spring means for normally holding the clutch parts in engagement, said spring means yielding to permit longitudinal movement of the hollow shaft when the load on the driven shaft causes the clutch part on the hollow shaft to unscrew from the clutch part of the driven shaft whereby a gear on the hollow shaft will mesh with the companion gear on the countershaft.

1,946,180

TILE BUILDING CONSTRUCTION

William Herbert Smith, East Molesey, England
Application December 11, 1931, Serial No. 580,420, and in Great Britain December 11, 1930
12 Claims. (Cl. 72—66)

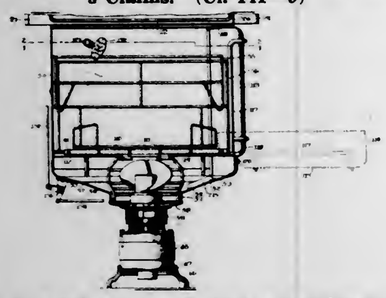


4. A floor formed by the combination of hollow blocks having one closed end and one open end and arranged back to back with open ends abutting, spaces between the sides of adjacent blocks, longitudinal reinforcing members in some of said spaces, spaces between the closed ends of adjacent blocks, and transverse reinforcing members in some of said last mentioned spaces, said transverse reinforcing members passing under said longitudinal reinforcement and thence up to the top corners of the closed ends of said blocks.

1,946,181

DISHWASHING MACHINE

Edgar S. Stoddard, Berwyn, Ill., assignor to The Conover Company, Chicago, Ill., a corporation of Illinois
Application May 2, 1930. Serial No. 449,184
3 Claims. (Cl. 141—9)

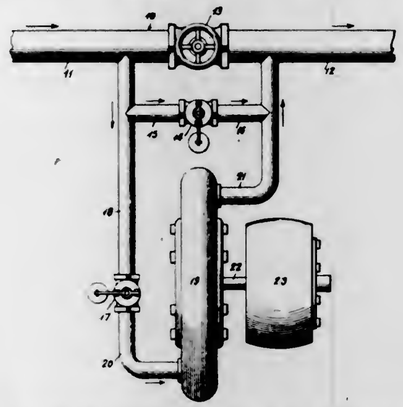


3. In a dishwashing machine, a tank having one side open from a point above the normal liquid level, the vertical portions of said tank forming said opening having turned-in portions extending a substantial depth into said tank, said turned-in portions being spaced from the sides of the tank, a door pivotally mounted at its lower portion to the open side of said tank, vertical side portions on said door turned inwardly substantially parallel to the turned-in portions of said tank, the bottom of said door extending downwardly into said tank adjacent the bottom thereof, rails positioned in the lower part of the tank, and rails on the inner side of said door cooperating with the rails within the tank when the cover is in open position to allow movement of a dish rack from the tank onto the cover, the downwardly extending portion of said door being positioned adjacent and beneath said rails when said door is in open position.

1,946,182

APPARATUS AND METHOD OF UTILIZING ENERGY NORMALLY WASTED IN REDUCING THE PRESSURE OF FLUIDS

Charles Sherman Thompson, State Line, Pa., assignor to The Manufacturers Light and Heat Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 14, 1933. Serial No. 680,454
2 Claims. (Cl. 253—36)



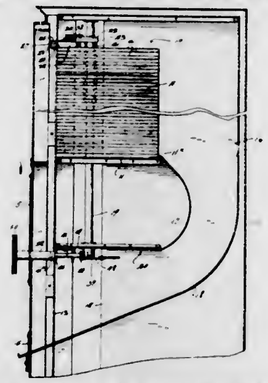
1. In a device for reducing the pressure in a gas main and converting at least a portion of the normally wasted energy into useful energy, an inlet main connected to a source of gas at a relatively high pressure, an outlet main, a pressure regulator responsive to the pressure in said outlet main and connected to receive gas from said inlet main and to deliver said gas to said outlet main at a substantially constant pressure which is lower than the pressure in the inlet main, a gas turbine connected to receive gas from said inlet main and to discharge into said outlet main, a second pressure regulator responsive to the pressure of the gas entering said turbine connected between said inlet main and said turbine for delivering gas to said turbine at a predetermined pressure above that of the gas in said outlet main.

1,946,183

VENDING MACHINE

Henry C. Williamson, Marlin, Tex.
Application April 26, 1930. Serial No. 447,649
8 Claims. (Cl. 312—51)

1. A vending machine including a magazine for stacked articles, a vertical oscillatable shaft extending upward through the magazine, an ejector movable vertically upon said shaft but rotating therewith and resting by its own weight upon the top of the stack in the magazine and following downwardly as the articles are discharged one by one from the stack, the ejector including an arm and a leaf spring forming part of and extending beyond the arm and carrying at its extremity a roller adapted to engage against the

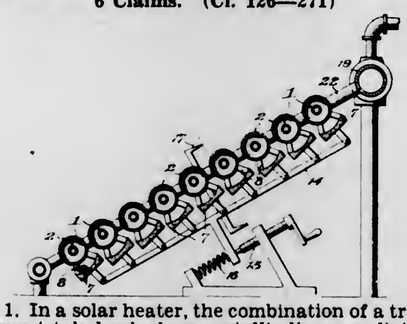


edge of the article, and a vertically disposed blade resting upon the top of the article.

1,946,184

SOLAR HEATER

Charles Greeley Abbot, Washington, D. C.
Application July 3, 1930. Serial No. 465,756
6 Claims. (Cl. 126—271)

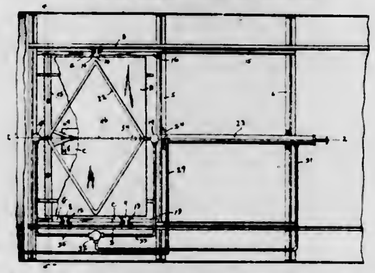


1. In a solar heater, the combination of a transparent tubular body, a metallic linear radiation-absorbing fluid-container, sealed in evacuated space within the transparent body; an open parabolic cylindrical reflector-element adapted to concentrate solar rays on said fluid-container; and means for orienting and maintaining said reflector-element with the axis of its parabolic curvature approximately in a plane containing the sun's center.

1,946,185

FUEL TANK EJECTOR

Carl E. Bazley, Auburn, N. Y.
Application August 15, 1930. Serial No. 475,545
10 Claims. (Cl. 244—31)

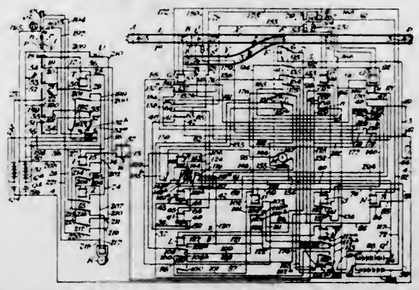


1. In a device of the class described, a vehicle, a compartment in the vehicle, a closure for the compartment, a fuel tank in the compartment, means for releasably securing the fuel tank in position, means for opening the closure, means actuated by the opening of the closure for moving the securing means to the releasing position, and means for positively ejecting the tank from the compartment.

1,946,186

REMOTE CONTROLLING APPARATUS

Charles W. Bell, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application May 19, 1928. Serial No. 279,086
39 Claims. (Cl. 246—3)

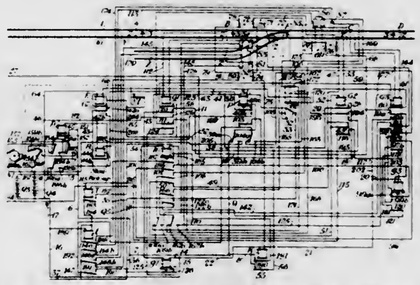


1. In combination, a railway traffic governing device, a locking mechanism for said device, a contact operated in conjunction with said locking mechanism, a polarized control relay, means for operating said locking mechanism and moving said device to one position or another according as said control relay is energized in the normal or reverse direction, an auxiliary control relay, means for at times controlling said locking mechanism and said device by said auxiliary control relay, a first indication relay, a second indication relay, indication means controlled by said first and second indication relays, and manually operable means for supplying current of one polarity or the other to said locking mechanism contact and said polarized control and auxiliary control relays as well as said first and second indication relays in series.

1,946,187

REMOTE CONTROL APPARATUS

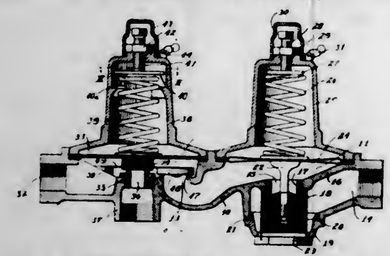
Charles W. Bell, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 14, 1929, Serial No. 339,824
Renewed April 4, 1933
27 Claims. (Cl. 246—3)



10. In combination, a railway track switch, a main signal governing traffic movements over said switch, a second signal governing traffic movements over said switch, a manually controllable

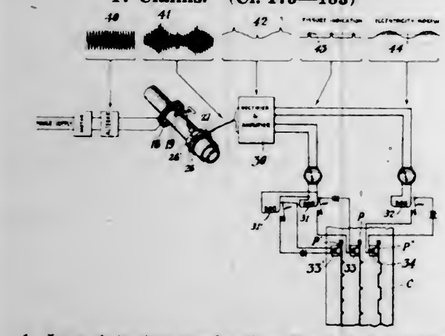
device, a releasing device controlled by said manually controllable device and by said main signal for controlling said switch, and a slow-acting device controlled by said second signal independently of said releasing device for controlling said switch.

1,946,188
REGULATOR AND RELEASE VALVE
William T. Birch, Chicago, Ill.
Application April 8, 1931. Serial No. 528,554
4 Claims. (Cl. 50—23)



1. In a pressure regulator comprising a casing having an inlet and an outlet and having a valve adapted to close said inlet, means for actuating said valve, said means comprising a diaphragm formed of a pair of similar and oppositely directed dished thin metal members, a valve stem for said valve, and means clamping said thin metal members together at their center and to said valve stem.

1,946,189
FLAW DETECTOR FOR TUBULAR CONDUCTORS
Fred D. Braddon, Eltingville, Staten Island, and Francis H. Shepard, Jr., New Rochelle, N. Y., assignors to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York
Application July 21, 1932. Serial No. 623,748
17 Claims. (Cl. 175—183)



1. In a detector mechanism for tubular hollow conductors such as lead sheaths of cables, comprising means for passing current therethrough, means for detecting variations in the characteristics of current flow, and means selectively responsive to variations due to fissures and to eccentricities.

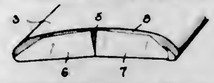
1,946,190
CABLE
Carl P. Brodhun, Wilkes-Barre, Pa.
Application September 24, 1930
Serial No. 484,217
2 Claims. (Cl. 173—267)

1. An electric cable comprising a conductor having a plurality of layers of insulating and water-proofing material therearound, and strips of stiff bendable rubber compound having longi-



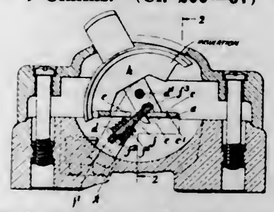
tudinally arranged wires embedded therein wound around the insulating material to armor the cable.

1,946,191
PACKAGE
Frank Jeffery Clancy, Seattle, Wash., assignor of thirty-five one-hundredths to Andrew Gunnard and two one-hundredths to Florence N. Ashton, both of Seattle, Wash.
Application June 6, 1932. Serial No. 615,691
6 Claims. (Cl. 206—41)



1. A package comprising a sheet folded to provide two integral sides, one side being relatively narrow, and the other side being relatively wide and substantially convexly curved, a portion of the sheet integral with the sides being folded from the sides to provide an end of the package, said end having one of its side boundary lines substantially convexly curved.

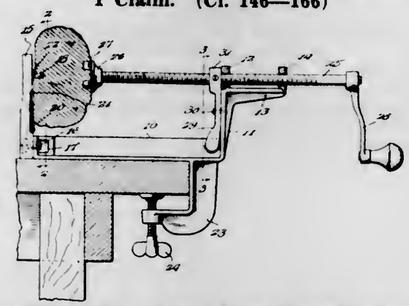
1,946,192
ELECTRICAL SWITCH OF THE TUMBLER TYPE
John Ashworth Crabtree, Sutton Coldfield, England
Application February 10, 1932, Serial No. 592,127, and in Great Britain February 10, 1931
7 Claims. (Cl. 200—67)



7. A switch of the class described, comprising a base, an operating tumbler, a double-armed rocking contact member, a pin upon which said tumbler and rocking contact are pivotally mounted, screws whose heads engage the extremities of said pin and secure it to said base, a floating link located between the arms of said rocking contact and connecting said tumbler thereto, an abutment member mounted upon said base and having clearances therein to permit of and limit the oscillation of said rocking contact and abutments

intermediate said clearances adapted to impart positive start to the contact arm when said tumbler is displaced in the spring-stressing direction, distance pieces located around said screws intermediate said abutment member and said pin to elevate the latter in relation to the former, a thrust member pivotally mounted between the arms of said rocking contact with which said link slidably engages, shoulders located on said link member at a distance from the end thereof connected to said tumbler, and a spring mounted around said link and confined between said thrust member and said shoulders to permit said shoulders to lever directly upon said abutments when the said tumbler is displaced.

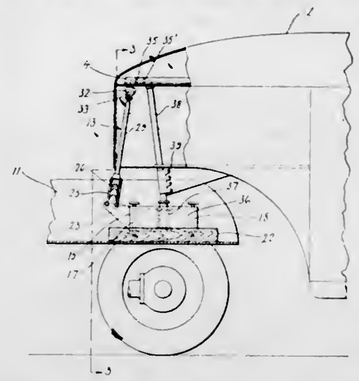
1,946,193
POTATO CHIP CUTTER
Julie C. Curdie, Jacksonville, Ill.
Application January 18, 1932. Serial No. 587,425
1 Claim. (Cl. 146—166)



A slicing device comprising a frame having a base bar and posts rising from opposite ends thereof, an eye at the upper end of one post, an arm extending from said post and having at its outer end an upstanding eye aligned with the eye of the post, a knife carried by the other post, a pin projecting from the second post adjacent one end of said knife and extending towards the first post in axial alignment with said eyes, a lever pivoted to the inner face of the first post in a vertical position and having an eye at its upper end and having a bore of greater diameter than the bores of the first-mentioned eyes, a threaded shaft slidably passed through all of the eyes and having an article engaging head at its inner end and a turning element at its outer end, the eye of said lever being formed with an internal arcuate rib extending partially about its circumference and constituting an interrupted thread movable into engagement with the threaded shaft to control movement thereof when said lever is moved about its pivot in one direction, and a set screw engaged through a threaded opening formed in the eye of the lever opposite said rib and movable into position to bear against said shaft and hold the rib in engagement with threads of the shaft and when further tightened creating frictional binding between the rib and threaded shaft to prevent rotation of the shaft.

1,946,194
TRAILER COUPLER
Glenn H. Curtiss, Country Club Estates, Fla.; Lena P. Curtiss, executrix of said Glenn H. Curtiss, deceased, assignor to Curtiss Aerocar Company, Inc., a corporation of Florida
Application November 23, 1929
Serial No. 409,227
9 Claims. (Cl. 280—33.1)

9. An articulated vehicular combination comprising a tractor vehicle and a trailer vehicle means including a coupling for connecting the vehicles together for relative angular movement

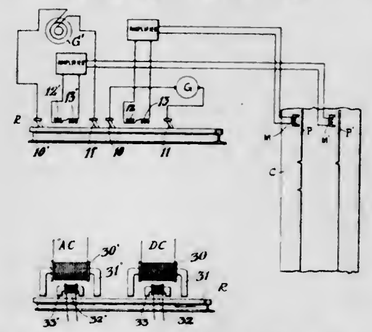


about an axis upwardly inclined in the direction of normal travel of the vehicles.

1,946,195
PURIFICATION OF ORGANIC FLUORINE COMPOUNDS
Herbert Wilkens Daudt, Wilmington, Del., assignor to Kinetic Chemicals Inc., Wilmington, Del., a corporation of Delaware
Application August 10, 1932. Serial No. 628,153
12 Claims. (Cl. 260—162)

1. The process of purifying fluorinated aliphatic hydrocarbons containing acidic impurities which includes contacting an amine therewith, and separating fluorinated aliphatic hydrocarbons from the resultant product.

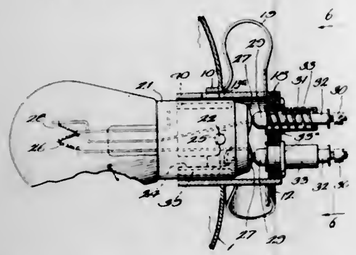
1,946,196
METHOD AND MEANS FOR DETECTING FLAWS
Harcourt C. Drake, Hempstead, and Loren J. De Lanty, Spring Valley, N. Y., assignors to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York
Application March 18, 1933. Serial No. 661,484
10 Claims. (Cl. 175—183)



5. A device for detecting flaws in electrical conductors and for differentiating between internal defects and other defects, comprising means for passing direct current through the conductor under test, means responsive to variations in the electromagnetic field set up by said direct current, an indicator actuated by said variations, means for passing alternating

current through the conductor under test, means responsive to variations in the electromagnetic field set up by said alternating current, and an indicator actuated by said last-named variations.

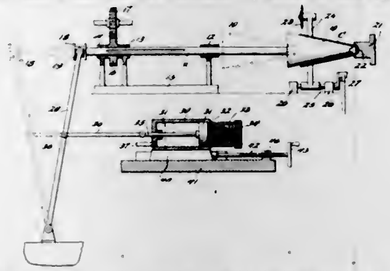
1,946,197
LAMP ASSEMBLY MEANS
Harry A. Douglas, Bronson, Mich.
Application January 30, 1931. Serial No. 512,374
7 Claims. (Cl. 240—41)



1. Lamp assembly means comprising a parabolic reflector having a circular opening therethrough, said opening being laterally enlarged at a plurality of spaced apart places; a cylindrical socket in said opening of substantially the diameter of said opening, the portion of said reflector margining said opening having an inward extension and said socket having a channel therein adapted to receive said inward extension; a bayonet seat in said channel for said extension; lugs on said socket adapted to pass through the lateral enlargements of said opening and to bear against the portion of said reflector margining said opening, said lugs and said seat being spaced apart substantially 120 degrees around the axis of said socket and providing bearing points for the socket on said reflector in a plane perpendicular to the axis of said socket; an incandescent lamp having its base in said socket and its lighting filament within said reflector, said base having bayonet pins one said pin passing through said channel in said socket and being received in an intermediate seat therein and said other bayonet pin passing through a diametrically opposite channel in said socket and being received in a bayonet seat therein; a lamp contact on said base; a three-legged spring surrounding said socket and keyed thereto, each leg of said spring pressing against said reflector at a point on the opposite surface of said reflector from said bearing points and radially and longitudinally aligned with each of said bearing points; a terminal contact in said socket; means for aligning said terminal contact with said lamp contact; and means for pressing said terminal contact against said lamp contact whereby the circuit is completed and the said bayonet pins are pressed against their said seats.

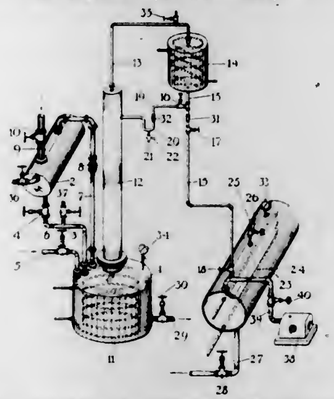
1,946,198
METHOD OF AND MACHINE FOR MANUFACTURING PAPER CONES
Charles K. Dunlap, Hartsville, S. C., assignor to Sonoco Products Company, Hartsville, S. C., a corporation of South Carolina
Application March 21, 1933. Serial No. 661,967
8 Claims. (Cl. 93—79)

1. The method of manufacturing paper cones which includes the steps of forming the cone, drying the same, placing the cone upon a conical mandrel, applying to the cone an axially directed force of sufficient magnitude to establish a tight fit of the cone on the mandrel, and trimming the



base of the cone while the application of said force is maintained.

1,946,199
PURIFICATION OF ORGANIC HALO-FLUORO-COMPOUNDS
Raymond A. Dunphy, Penns Grove, N. J., assignor, by mesne assignments, to Kinetic Chemicals, Incorporated, Wilmington, Del., a corporation of Delaware
Application June 28, 1932. Serial No. 619,674
21 Claims. (Cl. 260—162)

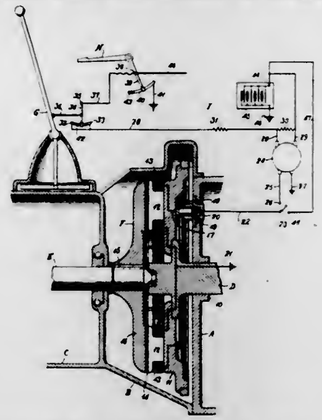


1. The process of purifying fluorinated aliphatic hydrocarbons containing acidic impurities which includes contacting ammonia therewith, and separating the fluorinated aliphatic hydrocarbons from the resultant product.

1,946,200
AUTOMATIC ELECTROMAGNETIC CLUTCH AND ELECTRIC COASTING DEVICE
James W. Easter, Baltimore, Md.
Application June 17, 1931. Serial No. 545,129
8 Claims. (Cl. 192—.01)

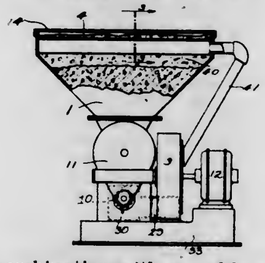
1. A device of the type described, comprising a drive shaft, a driven shaft, clutch elements on said shafts movable into and out of clutching engagement for connecting and disconnecting said shafts, electrical means for moving said elements into variable degrees of clutching engagement depending upon the amount of current supplied to said electrical means and for releasing said elements from clutching engagement upon termination of said supply, an electric generator having a controllable field circuit, means in said field circuit for varying the current output to cause it to automatically and slowly increase from a predetermined minimum

to a predetermined maximum when the field circuit is closed and quickly return to said minimum when said circuit is broken, means



for connecting said output to said electrical means, and means for opening and closing said field circuit.

1,946,201
AUTOMATIC COAL BURNER
William Barton Eddison, Ardsley on Hudson, N. Y., assignor, by mesne assignments, to Henry M. Brooks, New York, N. Y., William Tudor Gardiner, Augusta, Maine, and Richard Kingsley Hawes, Fall River, Mass., as trustees
Application March 5, 1927. Serial No. 173,037
12 Claims. (Cl. 110—45)



4. The combination with a coal burning apparatus of the kind described including a burner to support the burning coal, a blower to provide combustion air, a conduit for the combustion air extending from the blower to said burner, and a coal supply system comprising a coal compartment remote from the burner, a second conduit, said second conduit extending from said compartment to said burner, and means for feeding coal through said second conduit from the compartment to the burner, of means providing a passageway leading from said compartment to the suction inlet of said blower.

1,946,202
ETHYLENE GLYCOL PHTHALATE
Charles L. Gabriel and Lloyd Clayton Swallen, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application January 24, 1928
Serial No. 249,198
16 Claims. (Cl. 260—103)

1. A new composition of matter consisting of the neutral reaction product of ethylene glycol and phthalic anhydride.

1,946,203
COATED PAPER AND PROCESS OF PRODUCING SAME
Charles L. Gabriel, Lawrence, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application July 2, 1931
Serial No. 548,481
20 Claims. (Cl. 91—68)

1. As a new article of manufacture, a paper treated with a composition containing a cellulose ester, the major non-volatile constituent of said composition consisting of an ester resulting from the esterification of a polybasic acid, partly with a polyhydric alcohol, and partly with a monohydric alcohol.

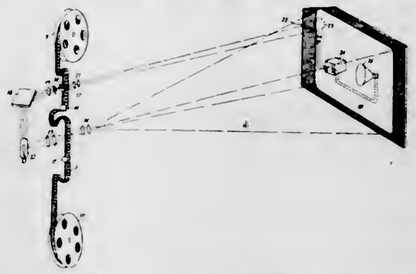
1,946,204
COATED PAPER AND PROCESS OF PRODUCING SAME
Charles L. Gabriel, Lawrence, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application July 2, 1931
Serial No. 548,482
20 Claims. (Cl. 91—68)

1. As a new article of manufacture, a paper treated with a composition containing a cellulose ester, the major non-volatile constituent of said composition consisting of an ester resulting from the esterification of a polybasic acid, partly with a dihydric alcohol, and partly with a mono-hydric alcohol.

1,946,205
COATED PAPER AND PROCESS OF PRODUCING SAME
Charles L. Gabriel, Lawrence, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application July 2, 1931
Serial No. 548,483
18 Claims. (Cl. 91—68)

1. As a new article of manufacture, a paper treated with a composition containing a cellulose ester, the major non-volatile constituent of said composition consisting of a neutral ester resulting from the reaction of a dihydric alcohol and a polybasic acid.

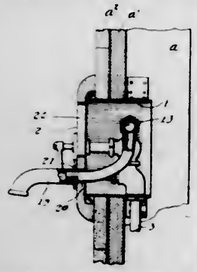
1,946,206
SOUND MOTION PICTURE
Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 27, 1930. Serial No. 464,216
11 Claims. (Cl. 88—16.2)



10. Talking motion picture apparatus comprising a viewing screen, a marginal screen adjacent said viewing screen and having a slit therein, photoelectric means adjacent said slit and sound

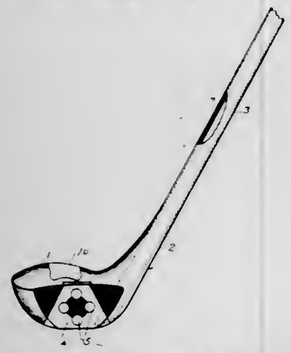
reproducing means connected to said photoelectric means for operation thereby; and projecting means remote from said screen for projecting moving pictures upon said viewing screen and sound records upon said marginal screen and slit.

1,946,207
PLUMBING INSTALLATION
George W. Haire, Chicago, Ill.
Application September 10, 1928
Serial No. 304,866
11 Claims. (Cl. 137—111)



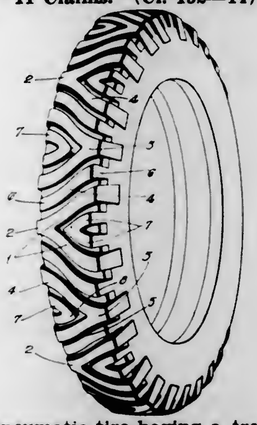
1. In a plumbing installation, the combination of a housing adapted to be secured in a wall to define a wall opening, a supply pipe leading thereto, means for securing said pipe to said housing, a discharge member for said supply pipe, a service valve which controls the discharge from said supply pipe and which is positioned within the wall opening defined by said housing, and a removable cover for said wall opening provided with an opening through which the valve stem of the service valve projects.

1,946,208
METHOD OF COATING ARTICLES WITH PYROXYLIN OR THE LIKE
William C. Hampton, Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a corporation of Ohio
Application June 12, 1930. Serial No. 460,785
19 Claims. (Cl. 41—38)



1. The herein described method of covering articles with pyroxylin or the like consisting in applying to the article a preformed body of pyroxylin which projects beyond the surface of the article, coating the article with liquid pyroxylin around such preformed body and causing the coating material to unite with the preformed body to form a homogeneous encasement, and curing such coating material.

1,946,209
TRACTION TREAD
William Edward Hardeman, Acocks Green, Birmingham, and Eric Sidney Tompkins, Stratford on Avon, England, assignors to Dunlop Tire & Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application July 8, 1933, Serial No. 679,518, and in Great Britain July 6, 1932
11 Claims. (Cl. 152—14)



10. A pneumatic tire having a tread comprising groups of tread ribs arranged in circumferential series, the ribs of each group being of substantial width throughout extending across the entire width of said tread to form uninterrupted grooves therebetween open to the side of the tread and being obliquely inclined to the center line of said tread at an angle reverse to that of the next adjacent groups.

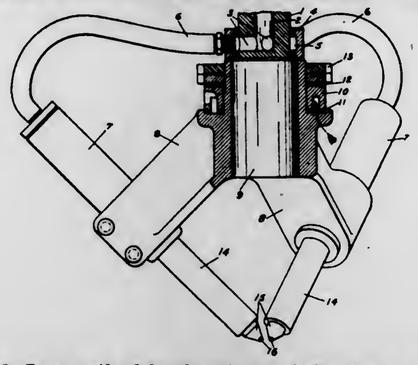
1,946,210
METALLIC WALL STRUCTURE
Earl F. Hauserman, Cleveland Heights, Leroy D. Mowery, Cleveland, and John A. Bohnsack, East Cleveland, Ohio, assignors to The E. F. Hauserman Company, Cleveland, Ohio, a corporation of Ohio
Original application August 20, 1928, Serial No. 300,634, now Patent No. 1,856,995. Divided and this application December 16, 1929. Serial No. 414,327
4 Claims. (Cl. 189—34)



1. In partition construction, a hollow vertical support having panel-receiving recesses, a removable face-plate for said support, and a telescopic post extension insertable through such removable face plate of a post and panel assembly.

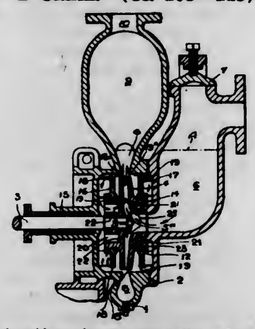
1,946,211
PNEUMATIC METHOD AND APPARATUS FOR FORMING METAL ARTICLES
Theodore M. Hiester, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application July 10, 1931. Serial No. 549,859
10 Claims. (Cl. 113—52)

2. In combination, a plurality of converging tools, fluid pressure means adapted to move said tools inwardly towards each other, a form, means to reciprocate said tools and rotate them with respect to said form whereby as said tools are forced outwardly by the downward movement of said tools over the form said fluid pressure means serves to maintain them with an even pressure on said form at all positions of the tools.



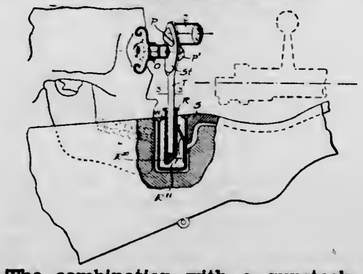
8. In a method for forming and shaping a predetermined area from a portion of a metal sheet, a form supporting the sheet, a forming tool adapted to engage with the portion of the sheet to be formed over the form, means for moving the tool downwardly and rotatively over the surface of the metal, pressing it over the form in a flat spiral path, and fluid pressure actuated means adapted to adjustably press said tool against the metal to conform the metal to the form and reduce the thickness of the metal in the area so being changed as to form.

1,946,212
CENTRIFUGAL PUMP
Oystein Jacobsen, Dayton, Ohio, assignor to The Duriron Company, Inc., a corporation of New York
Application March 15, 1933. Serial No. 660,845
1 Claim. (Cl. 103—113)



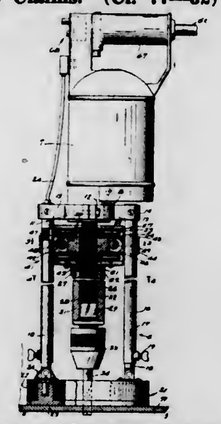
In combination in a centrifugal pump, a casing having an inlet eye at its center and a volute around its periphery, a suction elbow leading to the eye, a separation chamber above the volute to which the volute discharges, a runner or impeller of the closed type having vanes with passages therebetween mounted for rotation in the casing with its center in opposition to said eye and arranged to receive the liquid supplied to the eye, a drive shaft, a hub on each side of the runner, said drive shaft being secured to one of said hubs, and each hub having an annular chamber concentric with the drive shaft and provided at its inner end with ports leading to the passages between the vanes, a bearing on each side of the runner in which the respective hubs are mounted, a cavity in the casing on each side of the runner concentric with the drive shaft with which the outer ends of said annular chambers communicate, and communications between the separation chamber and said cavities.

1,946,213
TELESCOPIC SIGHT
Karl Jung, Munich, Germany
Application August 8, 1929, Serial No. 384,420, and in Germany October 22, 1928
2 Claims. (Cl. 33—50)



1. The combination with a gunstock and a sighting prism-telescope, of a shock absorbing support therefor, the latter being rigidly secured to the telescope and comprising a single foot resiliently mounted in the stock so as to regain its original position whenever displaced.

1,946,214
DRILL
Marcello C. Kabigting, Sierra Madre, Calif.
Application December 17, 1931
Serial No. 581,681
2 Claims. (Cl. 77—32)



1. A drilling machine comprising a frame, means for securing said frame rigidly with respect to the work to be drilled, a motor mounted on said frame, a revoluble spindle connected to said motor to be rotated thereby, said spindle having threads of different pitch thereon at different longitudinal positions, feeding means comprising a housing slidably engaging said frame, a plurality of nut sections carried by said housing, each of said nut sections being threaded complementarily to one of the threaded portions of said spindle, and means for selectively advancing each of said nut sections into threaded engage-

ment with its associated spindle section, a socket having a non-circular bore, said spindle having a non-circular portion slidably fitted to said bore, a chuck carried by said socket, and means connecting said socket to said feeding means.

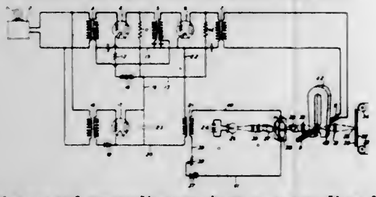
1,946,215

SOUND RECORDING

Zoltan J. Kegl, Hollywood, Calif., assignor to Electrical Research Products, Inc., New York, N. Y., a corporation of Delaware

Application January 5, 1932. Serial No. 584,775

1 Claim. (Cl. 179—100.3)



In a sound recording system, a recording lamp, a moving film, two light valves in cascade interposed between the lamp and the film, the first valve having a polarizing prism, an analyzing prism and an optical medium between said prisms, the second valve having an element movable in the direction of movement of said film, a source of modulated waves, an amplifier connected to said source, means for supplying the output of said amplifier to actuate the second valve, a control circuit connected to said source to rotate the plane of polarization of the light transmitted through said medium directly in accordance with the envelope of the amplitude variations of said waves and simultaneously to regulate the amplification of said amplifier inversely in accordance with the envelope of the amplitude variations of said waves.

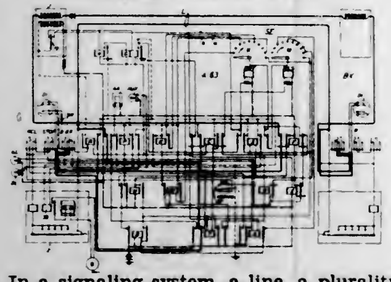
1,946,216

TELETYPEWRITER SELECTOR SYSTEM

Fullerton S. Kinkead, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 30, 1932. Serial No. 589,841

11 Claims. (Cl. 178—4.1)



1. In a signaling system, a line, a plurality of stations operatively related thereto, a selector switch at each station, means responsive to dialing impulses for calling in said stations for communication over said line, a circuit changing device (key STOP), mechanism operated by the change of said device from one position to another to advance said selector switches a predetermined number of steps, and elements effective upon and controlled by the making of the last step of the selector switch to restore all said selector switches to normal and to release all said stations from the line.

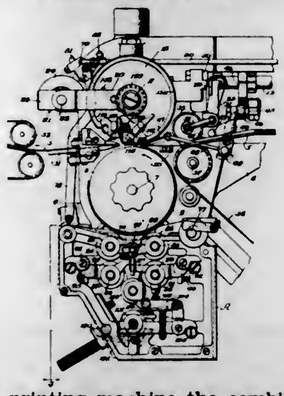
1,946,217

PRINTING MACHINE

Curtis George Kranz, Chicago, Ill., assignor to Addressograph Company, Wilmington, Del., a corporation of Delaware

Original application November 1, 1929, Serial No. 404,092. Divided and this application February 6, 1931. Serial No. 513,946

13 Claims. (Cl. 101—351)



1. In a printing machine the combination of a printing cylinder, a pair of inking rollers for inking the printing surface of the cylinder, an ink distributing roller for inking each inking roller, a movable sub-frame for supporting all of said rollers and for moving the inking rollers into and out of contact with the printing cylinder, and automatic means operable by the movement of the sub-frame for bodily moving the distributing rollers into and out of contact with the respective inking rollers.

1,946,218

PROCESS FOR PRODUCING MATERIAL FOR THE TREATMENT OF HIDES AND SKINS

Emil Lenk and Felix Lippner, Vienna, Austria, assignors, by mesne assignments, to American Cyanamid & Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 1, 1930, Serial No. 485,818, and in Austria June 30, 1928

16 Claims. (Cl. 149—2)

13. A composition for the treatment of hides and skins comprising a substantially pure culture of the class of bacteria consisting of bacillus coli commune and staphylococcus pyogenes albus.

1,946,219

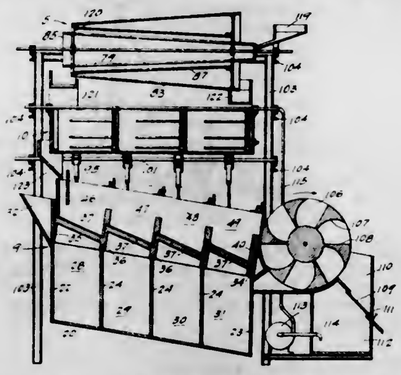
ORE CONCENTRATING UNIT

Christopher Livingood, Berkeley, Calif.

Application June 13, 1931. Serial No. 544,156

3 Claims. (Cl. 209—456)

1. A jig comprising a tank provided with transverse partitions forming a plurality of compartments, an aligned rectangular recess formed in the top of each partition, a side wall for each side of the aligned recesses, the bottoms of the recesses forming seats, a series of jig cells removably supported on said seats and disposed between said side walls, said side walls and said partitions, and the sides and ends of the tank forming piston compartments, a reciprocating piston in each piston compartment, and discharge means intermittently acting to obstruct the flow of water and tailings over the tail board of the last of the series of cells, said series of jig cells comprising a base portion formed into a plurality of sections, each section having a screen sloping downwardly from the head end to the tail end and sloping transversely each way from the center whereby the materials of higher specific gravity are collected at the lower corners, means for discharging the material from the



lower corners, and a top portion fitting on the lower portion and divided into a plurality of cells by transverse partitions forming tail boards, the face of the tail boards being diagonally tapered from the center to cause movement of the material toward the corners of the cells.

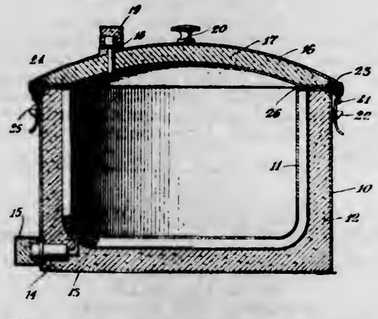
1,946,220

COOKER

Fritz Lotz, New York, N. Y.

Application January 23, 1933. Serial No. 653,125

2 Claims. (Cl. 219—44)



1. The combination of a vessel having walls containing a heat insulating material with a cover also having walls containing a heat insulating material, said cover having a hollowed lower flange and said vessel having a groove in its upper rim, a flanged rubber gasket in the flange of said cover engaging in the groove of said vessel's rim, means to clamp said cover to said vessel to press said gasket into intimate engagement of cover and vessel to produce an hermetically tight closure between cover and vessel, a detachable electric heating means for said vessel, said closure keeping the material in said cooker simmering after disconnection of said heating means, a safety valve in said cover, and an electric socket for said vessel in connection with said heating means, and removable caps containing a material impervious to heat for covering said safety valve and socket upon the disconnection of said heating means.

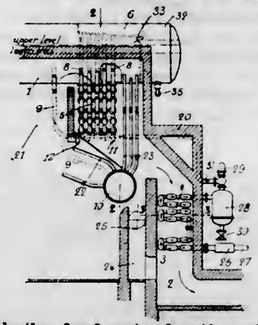
1,946,221

BOILER FEED WATER HEATING PLANT

Camille Loutz, Mulhouse, France, assignor to Societe Alsacienne de Constructions Mecaniques, Mulhouse, France

Application December 1, 1931, Serial No. 578,295, and in France December 13, 1930

7 Claims. (Cl. 122—420)



1. In a boiler feed water heating plant, a steam and water drum, a feed water heater placed at a lower level than said drum, means for forcing water through said heater into said boiler, a tube connecting said feed water heater with said drum, said tube extending through the water space and opening in the steam space of said drum, a hole in said tube, said hole being disposed in the portion of the tube within the water space of said drum, whereby the water is permitted to flow back from the drum into said heater if the water forcing means failed or were deficient.

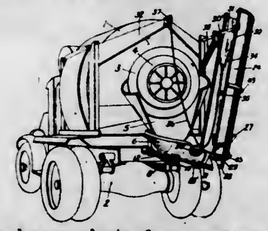
1,946,222

DISCHARGE CHUTE FOR MIXERS

Obert G. Mandt, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application May 20, 1932. Serial No. 612,527

5 Claims. (Cl. 193—10)



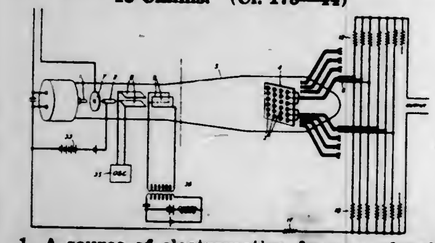
1. A discharge chute for a mixer comprising a receiving section mounted below the discharge opening of the mixer, said receiving section being mounted in such a manner that it may be swung laterally in a wide arc or tilted in a vertical plane, means for hingedly connecting said receiving section to the main section of the chute, said main section being swingable between operative position and inoperative position so that the material may be discharged either from the lower end of the main section or from the lower end of the receiving section, means for supporting the discharge chute in such a manner that it may be swung laterally when the main section of the chute is in operative or inoperative position, and means independent of said last-named means for rigidly supporting the discharge chute on the mixer for transportation while still maintaining connection of said discharge chute to the discharge end of the mixer, said last-named

means being adapted to support the main section of the chute in an inoperative position in such a manner that material may be discharged from the receiving section without interfering with the main section when the entire chute is supported in position for transportation.

1,946,223
TRANSLATING DEVICE

Warren P. Mason, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 16, 1930. Serial No. 475,833
13 Claims. (Cl. 178—44)



1. A source of electromotive force, a plurality of networks of different, fixed attenuation, means to produce an electron stream selectively to associate said source and said networks, an output circuit in common to said networks, means successively to associate said networks with said source to produce a current in said output circuit varying in accordance with the attenuation of said successively connected networks, said last mentioned means being adapted to control said electron stream.

1,946,224
TIRE GAUGE

Louis Mastrangel, Union City, N. J.

Application June 20, 1928. Serial No. 286,821
5 Claims. (Cl. 73—110)



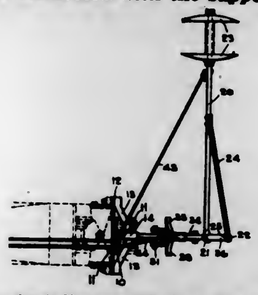
2. In a pressure gauge of the type described, pressure indicating means to be moved a distance by fluid pressure communicated thereto, said means including a plunger adapted to move a distance proportional to the pressure, calibrated to read the distance which the plunger has moved in terms of pressure, a flexible metallic accordion or bellows attached to said plunger, a fitting for attachment to the pressure source having a passage leading to said flexible element, said flexible element being formed of ductile sheet metal and expansible in a longitudinal direction only and being self-collapsing on failure of pressure.

1,946,225
TRACTOR GUIDE

Martin Mattson, Loomis, Nebr.

Original application May 9, 1930, Serial No. 451,131. Divided and this application January 12, 1931. Serial No. 508,144
22 Claims. (Cl. 97—49)

1. In a guide for a tractor having front wheels arranged to swing upon and transversely of an axle and provided with steering mechanism, a steering-arm mounted on said steering mechanism and projecting forwardly of the axle, an upright supporting-bar mounted at its upper end on the tractor to permit swinging movements thereof transversely of the line of travel of said tractor, an adjusting-bar mounted on the steering arm and connected with the supporting-bar,

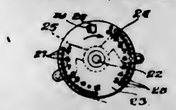


a guide-bar pivotally mounted on the lower end of the supporting bar and having a guide adapted to travel in a furrow for moving the guide-bar, said supporting-bar and steering mechanism of the tractor.

1,946,226
PARKING LIGHT CONTROL FOR AUTOMOTIVE VEHICLES

Albert G. McCaleb, Evanston, Ill.

Application March 3, 1930. Serial No. 432,933
6 Claims. (Cl. 161—1)

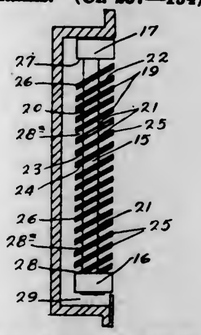


1. In combination with the parking lamps of an automotive vehicle, time-controlled switching mechanism, a switch capable of manual actuation actuation to "set" position by the driver of the vehicle to place said lamps under the domination of said time-controlled switching mechanism, and devices necessarily operated as an incident to the use of the vehicle arranged to cooperate with said volitionally set switch and cause the latter to take said parking lamps from under the domination of said time-controlled switching mechanism.

1,946,227
SHEET METAL RADIATOR

Thomas Ernest McGrail, Montreal, Quebec, Canada

Application September 26, 1931
Serial No. 565,358
6 Claims. (Cl. 257—154)



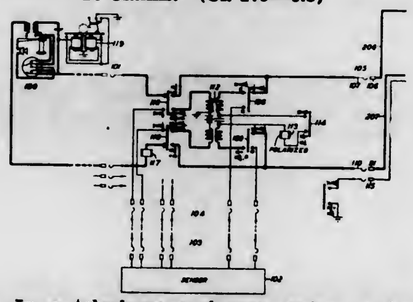
3. In a radiator, an upper header in tubular form, a lower feed and return header, in tubular

form, a plurality of vertical tubular members connecting said headers, a plurality of transverse sheet metal heading strips doubled and having flat front faces and openings for said vertical tubes and rigidly secured thereto and inclined upwardly from the inner side outwardly and forming therebetween passages for the heated air, and a connection to said lower chamber adapted to be connected to a circulatory system.

1,946,228
TELEPHONE SYSTEM

James B. McKim, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 17, 1933. Serial No. 671,467
16 Claims. (Cl. 179—6.3)

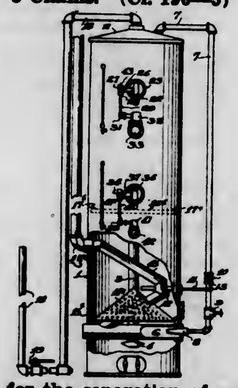


1. In a telephone exchange system, a local office, a calling line terminating therein and having a coin box thereon, an operator's position, a trunk for connecting said local office with said operator's position, cord circuits and coin control keys common thereto at said operator's position, a talking key for each cord circuit for associating said coin control keys with said cord circuit, and coin control relays associable with the trunk for controlling said coin box and controllable by said coin control keys over the trunk and connected cord circuit.

1,946,229
HEATED SEPARATOR TANK FOR OIL FIELD EMULSIONS

William G. McMurray, Wichita Falls, Tex., assignor to M & V Tank Company, Wichita Falls, Tex.

Application July 28, 1932. Serial No. 625,358
3 Claims. (Cl. 196—5)

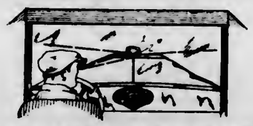


3. A tank for the separation of water and oil emulsions including a combustion furnace chamber disposed wholly within said tank, using as a fuel the gas emanating from the oil content of said tank, a liquid inlet for said tank terminating in a discharge below said furnace chamber, a hot air flue communicating with and extending angularly upward from said furnace chamber, means disposed above said furnace chamber through which said liquid is constrained to ascend for breaking up the emulsion, causing more intimate contact thereof with said furnace chamber and flue, means for transporting the gaseous constituent of said tank to a point to be discharged into said furnace chamber for ignition and means for automatically controlling the flow of said gas through said transporting means.

1,946,230
AUTOMOBILE RADIATOR REFLECTOR CAP

Arnold T. Mosberg, Lakewood, Ohio

Application September 6, 1930. Serial No. 480,141
3 Claims. (Cl. 88—1)



1. A reflector device for automobiles, comprising a one-piece body portion, reflector portions formed integrally with said body portion and located at approximately ninety degrees to each other upon opposite sides of said body portion so as to reflect an image of an object approaching from either side of the path of travel of the automobile, and means for disposing said body portion itself concentrically with respect to the radiator nozzle of the automobile.

1,946,231
PROCESS FOR THE MANUFACTURE OF ALLOYS OF PRECIOUS METALS WHICH ARE AMENABLE TO HEAT TREATMENT

Leopold Nowack, Pforzheim, Germany, assignor to Deutsche Gold & Silber Scheideanstalt, vormals Roessler, Frankfort - on - the - Main, Germany, a corporation
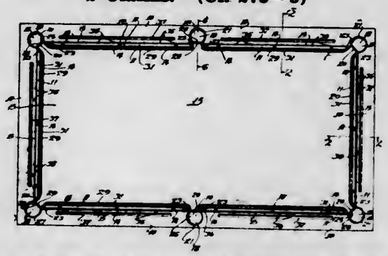
No Drawing. Application August 25, 1930, Serial No. 477,798, and in Germany September 4, 1929
4 Claims. (Cl. 75—1)

1. An alloy which may be annealed and/or hardened by heat treatment consisting of about 70% to 95% of gold, 1 to 25% of platinum, and 0.05 to 5.0% of iron.

1,946,232
GAME APPARATUS

Clair A. Olsen and Leslie Leo Schmidt, Burlington, Iowa

Application September 24, 1930
Serial No. 484,114
2 Claims. (Cl. 273—3)



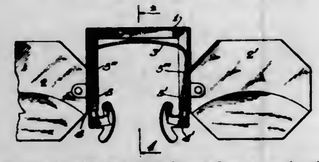
1. In a game court of the character described, a guard rail having a longitudinally grooved inner face, and a cushion comprising an inherently

resilient tube seated in said groove, said tube having a rod or wire extending longitudinally therein, and a series of securing bolts extending through transverse openings in said rail and having hooked end portions projected through registering openings provided therefor in said tube, said hooked end portions engaging said rod or wire whereby to clamp the tube in place.

1,946,233
TYPE OF EYEGLASS AND SPECTACLE MOUNTING OR BRIDGE

Louis John Page, Brooklyn, N. Y.

Application June 26, 1931. Serial No. 547,037
7 Claims. (Cl. 88—49)

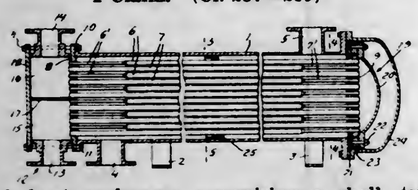


1. In a nose-piece structure for spectacles, eyeglasses, and the like, a bridge having substantially vertical members, said vertical members being provided with grooves and being fitted with two prongs on either side of the said vertical members, an auxiliary nose piece provided with several sets of holes placed to engage the prongs in said bridge and arranged to slide within the grooves of said bridge, maintaining contact therewith by virtue of the resilient properties of the auxiliary nose-piece structure.

1,946,234
HEAT EXCHANGER

Joseph Price, West New Brighton, Staten Island, N. Y., assignor to The Griscom-Russell Company, New York, N. Y., a corporation of Delaware

Application May 19, 1931. Serial No. 538,410
1 Claim. (Cl. 257—239)



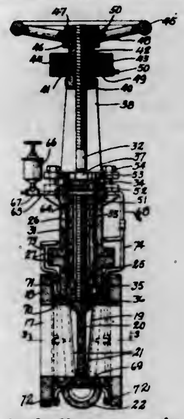
A heat exchanger comprising a shell, tube sheets disposed at the ends of the shell, a lateral fluid inlet near one end of the shell, a lateral fluid outlet near the other end of the shell, a tube bundle substantially filling said shell and secured to said tube sheets, each tube of said bundle having one end portion thereof of reduced cross section and alternate tubes being secured to said tube sheets in reversed relation, whereby ample bridge wall is provided in each tube sheet between adjacent tubes, the said end portions being of sufficient length to provide transverse flow paths communicating with said inlet and outlet respectively.

1,946,235
LUBRICATED VALVE AND CONTROL SYSTEM

Fred E. Riley, Livermore Falls, Maine

Application June 23, 1931. Serial No. 546,203
13 Claims. (Cl. 251—61)

9. A device including a valve, a casing, the valve and casing having complementary seating surfaces, a movable member for the valve, said member and casing having complementary seating surfaces, means for supplying lubricant to the first and second mentioned seating surfaces, including a lubricant passage at the first mentioned seating surfaces, and a lubricant channel at the second mentioned seating surfaces, and a source of lubricant connected to said channel, said member having an opening adapted for communication with the lubricant channel, and a conduit communicating with said passage and said opening so that the conduit is controlled by movement of said member.

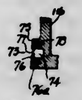


13. A device including a casing, a valve, a hollow extension for the valve, said extension and valve having alined threaded portions, and a stem passing through the extension and having threaded engagement with the threaded portions of the valve and extension, whereby the extension is removable without affecting the closed position of the valve.

1,946,236
LUBRICATED VALVE

Fred E. Riley, Livermore Falls, Maine

Application June 23, 1931. Serial No. 546,204
3 Claims. (Cl. 251—167)



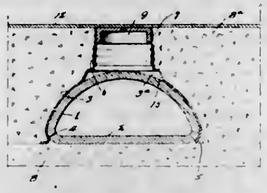
1. A device including a gate member, a casing member, one of said members having plane plate means of sheet material to provide a seating surface therebetween, the member having the plate means having a lubricant passage, said plate means overlying said passage and having an opening restrictedly communicating with said passage to supply lubricant to the seating surface.

1,946,237
OUTLET FOR ELECTRICAL CONDUITS AND METHOD OF APPLYING THE SAME

Hugh J. Robertson, Jr., New York, N. Y., assignor to The Fibre Conduit Company, Orangeburg, N. Y., a corporation of New York

Application April 17, 1931. Serial No. 530,848
1 Claim. (Cl. 247—28)

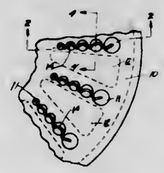
In an underfloor duct system, the combination with a conduit having an imperforate wall presenting a curved outer surface, of a pre-set conduit outlet comprising a concave base shaped to snugly fit and rest upon said curved surface and having a wire outlet opening, a tubular neck or collar supported by and projecting from said base in registry with said outlet opening, and fastening means carried by said outlet base engaging said conduit, whereby an outlet port can be cut through the wall of said conduit in registry with the opening through said outlet when the same is to be used.



1,946,238
DIE FOR FORMING SPIRAL MACARONI

Angelo Ronzoni, New York, N. Y., assignor to Ronzoni Macaroni Company, Incorporated, Long Island City, N. Y.

Application September 26, 1933
Serial No. 690,990
15 Claims. (Cl. 107—14)



7. In a molding machine adapted for extruding plastic material, a plate having a plurality of passages extending inwardly from one side partly through the plate, said passages being of substantially circular cross-section and arranged in a row, the bottom of each passage being substantially cone-shaped with the apex pointing toward the opposite side of the plate, said plate having a slot therein extending back from the opposite side of the plate to the passages, said slot being formed in a series of joined arcs with their convexity in substantially the same direction, an arc for each passage, substantially the midpoint of each arc passing through the apex of its corresponding passage, and the junction of adjacent arcs coming between their corresponding passages, said passages and slot causing the material extruded therefrom to be formed in a series of rounded transverse ridges curving longitudinally back toward the plate, said plate having a trough located to receive the material on its way back, and shaped to guide the material entering the trough to spiral back upon itself.

1,946,239
ELECTRICIAN'S TOOL

Victor A. Ryan, Millburn, N. J., assignor to Electro-Technical Coatings, Inc., Nutley, N. J., a corporation of Delaware

Application April 25, 1933. Serial No. 667,789
8 Claims. (Cl. 145—61)

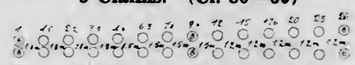
1. As an article of manufacture, an electrician's insulated hand tool comprising a metallic tool member provided with a working head, a jacket of insulating material enclosing said metallic member with the exception of said working head, a handle portion provided on said jacket, and a continuous annular shed on said insulating jacket between said handle and the exposed working head of said tool.



1,946,240
HOT ROLLING STEEL STRIPS

Wilhelm Rohn, Hanau-on-the-Main, Germany

Application August 20, 1930, Serial No. 476,721, and in Germany September 3, 1929
5 Claims. (Cl. 80—60)

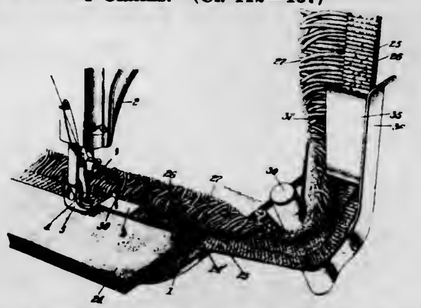


1. The method of rolling a steel strip from a hot billet or the like which includes passing the blank continuously without re-heating through a comparatively large number of successive stands of rolls in alinement and close together so as to conserve the heat in the blank, maintaining wholly or chiefly by the rolls the necessary tension to prevent looping between stands, using rolls which are of the same comparatively small diameter best suited to the permissible reduction at the temperature of the blank in the last pass, effecting in each of the first passes a much less reduction than is permissible at the temperature of the blank and compensating for the slight reduction per pass by an increased number of passes.

1,946,241
RUG-BINDING ATTACHMENT FOR SEWING MACHINES

Rudolph J. Sailer, Townley, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application March 10, 1932. Serial No. 597,912
4 Claims. (Cl. 112—137)



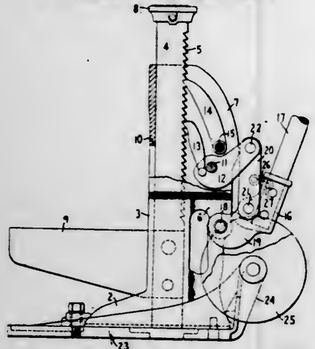
1. A rug-binding attachment for sewing machines comprising, a supporting plate adapted for attachment to the bed of a sewing machine, a binder-head comprising a sheet of metal bent

back and forth to form four spaced walls, the free edge of the upper wall being spaced from the lower wall to form a gap for passage of the binding fringe, and a fringe deflector disposed on top of the upper wall and inclined toward said gap.

1,946,242
LIFTING JACK

Frank H. Schwerin, Bellevue, Pa., assignor to The Duff-Norton Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application November 21, 1931
Serial No. 576,512
2 Claims. (Cl. 254—108)

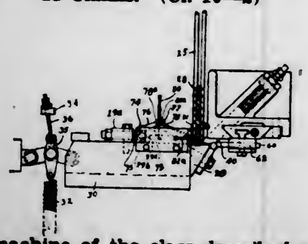


2. In a lifting jack, the combination with a frame, of a ratchet bar guided for vertical movement in the frame; force-multiplying mechanism comprising a lever pivoted between its ends to the frame; a lifting pawl carried by one end of the lever and engaging the teeth of the ratchet bar; a link pivotally connected to the other end of the lever; an operating lever fulcrumed at one end on the frame and pivotally connected to the link at a point which is higher than the fulcrum when the mechanism is at one end of its stroke; and a handle connected to the operating lever and extending at such an angle to a plane through the fulcrum and the axis of the pivotal connection of the operating lever to the link that the handle has a substantial upward slope when the operating lever is moved into position where said fulcrum and axis are in a common horizontal plane.

1,946,243
MACHINE FOR FINISHING BOLTS AND SCREWS

Howard D. Simkins, East Cleveland, and Oliver P. De Loe, Cleveland, Ohio, assignors to The Superior Screw and Bolt Manufacturing Company, Cleveland, Ohio

Original application May 31, 1928, Serial No. 281,966. Divided and this application June 17, 1929. Serial No. 371,655
18 Claims. (Cl. 10—2)

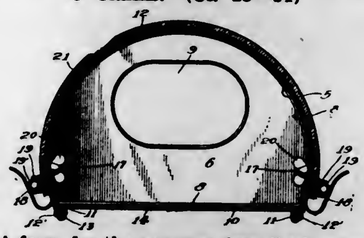


1. A machine of the class described comprising means for feeding bolts or screws through one plane, means for transferring the same to a plane substantially normal to said first plane, means including said transferring means for holding the bolt or screw in position in said second plane for finishing operations, and means for performing such operations upon the head and shank thereof simultaneously.

1,946,244
BAKING FORM

Harry N. Smith, Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y., a corporation of New York

Application March 23, 1931. Serial No. 524,489
6 Claims. (Cl. 18—34)



6. A form for the purpose described comprising an elongated transversely curved face plate adapted to receive and support the strips of material to be cured, oppositely disposed spring hooks adjustable transversely on said face plate and projecting from the outer side thereof, substantially channel shaped longitudinally extending retainer bars having tubular inserts secured in the channels thereof to bear against the spring hooks whereby the webs of said retainer bars will be held in operative engagement with the strips of material to retain them on the form with the faces thereof exposed.

1,946,245
PRODUCTION OF METHYL AMINE FROM DIMETHYL ETHER

Lloyd C. Swallen, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

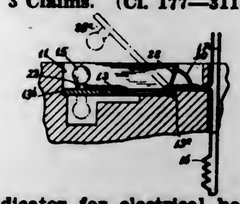
Application October 11, 1929. Serial No. 399,110
3 Claims. (Cl. 260—127)

1. Process for the production of methyl amine which comprises subjecting to the action of an aluminum oxide catalyst at temperatures ranging from 300–450° C. a mixture of gaseous dimethyl ether and ammonia, the molar ratio of ammonia to dimethyl ether ranging from 1 mol NH_3 per mol Me_2O to 2 mols NH_3 per mol Me_2O.

1,946,246
INDICATOR FOR ELECTRICAL HEATING APPLIANCES

Emil Tomsche, New York, N. Y.

Continuation of application Serial No. 303,739, September 4, 1928. This application December 10, 1931. Serial No. 580,013
3 Claims. (Cl. 177—311)

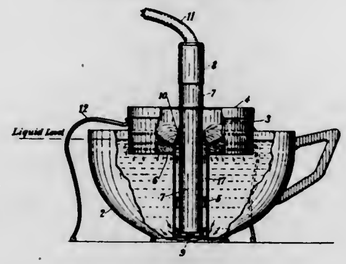


1. An indicator for electrical heating appliances, comprising a recess formed in the body of said appliance, a strip hinged in the base of said recess so that its end may swing out, said strip being formed of sections swivelly connected with a tube, a lamp socket on the outer section, means for holding said strip in various hinged positions, and a circuit including said lamp socket and the electrical winding of said appliance and passing through said tube, the sections of said strip being formed with openings at the ends of the tube to allow the passage of the wires from said circuit.

1,946,247
BREWING DEVICE

Nathaniel B. Wales, New York, N. Y.

Application December 12, 1933
Serial No. 701,955
5 Claims. (Cl. 219—44)

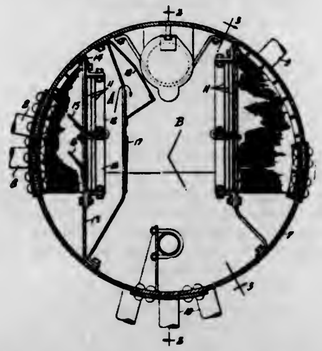


1. A brewing device adapted to be inserted into a receptacle filled with water, comprising a coffee container, an open-ended tube secured to and terminating at its upper end within said container and protruding through and below the bottom of said container at its lower end, an electric heater of the immersion type, a cover for said container secured to said heater and means thereby to detachably mount said heater in an axial position within said tube by the fitting of said cover on to said container.

1,946,248
DEVICE FOR SECURING DRY STEAM

Albert C. Weigel, East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y., a corporation of Delaware

Application February 6, 1932. Serial No. 591,265
10 Claims. (Cl. 122—491)

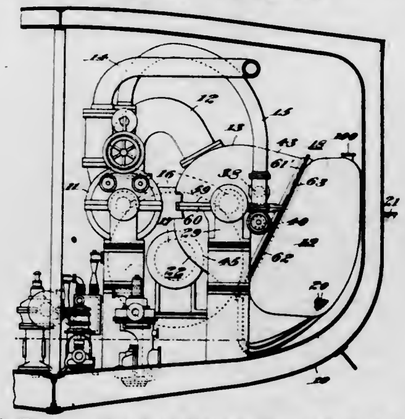


1. In a boiler, the combination with a steam and water drum and boiler tubes delivering thereinto, of a screen disposed within the drum opposite points of delivery by said tubes, said screen being composed of sections, each comprising a screen and framing, means for securing the frames together, and means for supporting the screen from the drum.

1,946,249
POWER PLANT APPARATUS

Charles P. Wetherbee, Bath, Maine, and John E. Burkhardt, Quincy, Mass., assignors to Bethlehem Shipbuilding Corporation, Ltd., a corporation of Delaware

Application January 8, 1932. Serial No. 585,450
18 Claims. (Cl. 60—95)

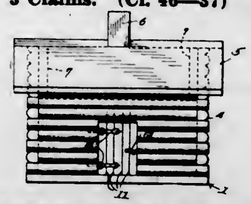


1. In a marine installation comprising a horizontal steam turbine and a condenser, an exhaust casing enclosing the stator of the turbine comprising an upper half and a lower half, the plane of separation of which is horizontal and substantially through the shaft axis of the turbine, and a condenser casing attached to said exhaust casing in direct communication with both halves of said exhaust casing, the plane of separation between the exhaust casing and the condenser casing being inclined with respect to a vertical plane through the axis of the turbine shaft.

1,946,250
CANDY CONTAINER OR THE LIKE

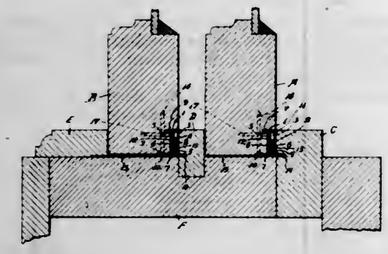
Harold R. Whaley, St. Johnsbury, Vt., assignor to Maple Grove Candies, Inc., St. Johnsbury, Vt.

Application January 13, 1933. Serial No. 651,601
3 Claims. (Cl. 46—37)



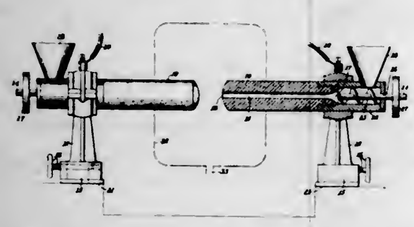
1. A container including an outer box, a removable lid, there being an opening in the box and said lid and box cooperating to simulate an incomplete structure of predetermined design, a separate removable inner box for holding merchandise, there being designs displayed on the inner box of no significance in themselves but which, when displayed within and cooperating with the walls of the opening in the outer box complete the simulation of a known structure by the container.

1,946,251
WEATHER STRIP
Harry Huston White, Cleveland, Ohio, assignor to Elmer D. Barringer, Cleveland, Ohio
Application May 20, 1932. Serial No. 612,573
15 Claims. (Cl. 20—69)



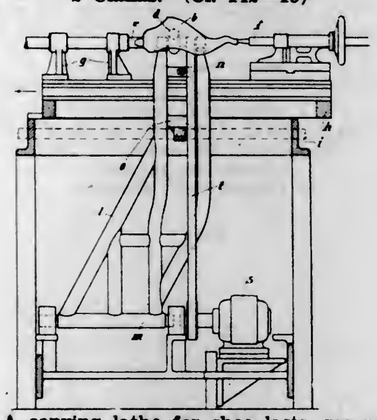
1. A weatherstrip construction of the class described for windows, comprising cooperating strips mounted on a window sash and frame, respectively, and forming relatively inverted channels having interengaging walls extending into each channel, the walls of one channel fitting between the walls of the other and being relatively movable in the plane of the sash for relative expansion and contraction of the sash and frame while maintaining contact between the said walls, the said walls becoming increasingly inter-engaged responsive to contraction of the sash.

1,946,252
METHOD OF AND APPARATUS FOR PROPAGATING REACTIONS
Sydney T. Wiles, Buffalo, N. Y., assignor to Buffalo Electric Furnace Corporation, Buffalo, N. Y.
Application November 30, 1931
Serial No. 578,077
7 Claims. (Cl. 13—34)



1. An apparatus for treating reactive materials comprising a substantially horizontal elongate member of homogeneous material capable of efficiently conducting heat and electricity, said member having entrance and exit openings communicating to provide for the passing of charges of reactive materials longitudinally through the elongate member, means for feeding charges of reactive materials through said member, means for transmitting electric current to one end of the elongate member, means for engendering an electric arc at the other end of the elongate member to provide heat therein, and means for moving the elongate member, movement of the elongate member and the feeding of the material therethrough being coordinated with the intensity of the electric heat applied to produce optimum reduction of material in the elongate member.

1,946,253
COPYING LATHE FOR SHOE-LASTS AND THE LIKE
Eugen Winkle, Jiler, Germany
Application March 9, 1932, Serial No. 597,682, and in Germany March 16, 1931
2 Claims. (Cl. 142—15)



1. A copying lathe for shoe lasts, means for rotatably supporting a model and work pieces, a copying wheel and cutter heads of less than 300 mm. diameter, means for swingably mounting said wheel and cutter heads on separate parallel axles, a base for said lathe, means, including a plurality of shafts mounted near the base, for swinging said copying wheel and cutter heads towards the model and work pieces, respectively, means for rotating said model and work pieces about horizontal axes, means for causing said model and work pieces to advance with respect to said wheel and cutter heads, a driving motor for each cutter head coaxial with but independent of said shafts, and a stationary mounting for the motors near said base of the lathe.

1,946,254
PREPARATION OF CARBOXYLIC ACIDS
John C. Woodhouse, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 15, 1932
Serial No. 642,759
20 Claims. (Cl. 260—116)

1. A process for the preparation of oxygenated aliphatic organic compounds which comprises contacting a compound selected from the group consisting of a saturated aliphatic alcohol which is substantially not decomposed when vaporized, and a compound which gives a saturated aliphatic alcohol upon hydrolysis and carbon monoxide with a volatile inorganic acid.

1,946,255
PREPARATION OF CARBOXYLIC ACIDS
Gilbert B. Carpenter, Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 28, 1932
Serial No. 619,738
16 Claims. (Cl. 260—116)

1. In a vapor phase process for the preparation of aliphatic organic acids the step which comprises contacting a compound selected from the group consisting of a compound containing at least one separate hydrolyzable alkoxy group and an aliphatic alcohol with carbon monoxide in the presence of a hydrogen halide catalyst.

1,946,256
PREPARATION OF CARBOXYLIC ACIDS
John C. Woodhouse, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 28, 1932
Serial No. 619,735
13 Claims. (Cl. 260—116)

1. In a process of reacting an aliphatic alcohol and carbon monoxide and thereby producing an aliphatic carboxylic acid the employment of a volatile halide associated with a form of activated carbon as the catalyst for the reaction.

1,946,257
PREPARATION OF ORGANIC ACIDS
Gilbert B. Carpenter, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 28, 1931
Serial No. 519,237
13 Claims. (Cl. 260—116)

1. A process for the preparation of aliphatic organic acids which comprises contacting a compound selected from the group consisting of monohydroxy aliphatic alcohols, the alkyl ethers and the alkyl esters, with a halide of an element selected from the elements of group 2 of the periodic table and manganese in the presence of carbon monoxide at reacting temperature.

1,946,258
PREPARATION OF ORGANIC ACIDS
Wallace H. Carothers and Gilbert B. Carpenter, Wilmington, Del., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 28, 1931
Serial No. 519,240
17 Claims. (Cl. 260—116)

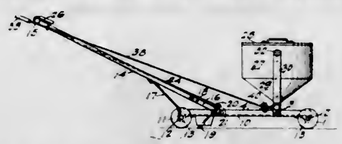
1. A process for the preparation of aliphatic organic acids which comprises contacting a compound selected from the group consisting of monohydroxy aliphatic alcohols, the alkyl ethers and the alkyl esters, with a complex inorganic oxide containing a metal of Group VI—A of the periodic table and silicon in the presence of carbon monoxide at reacting temperature.

1,946,259
PROCESS FOR THE PREPARATION OF ALIPHATIC ORGANIC ACIDS
Gilbert B. Carpenter, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 21, 1931
Serial No. 524,416
12 Claims. (Cl. 260—116)

1. A process for the preparation of aliphatic organic acids which comprises contacting a compound containing at least one hydrolyzable alkoxy group and carbon monoxide with a hydrogen halide in conjunction with the halide of a metal of the group consisting of the metals of Group II of the periodic table and manganese at reacting temperature.

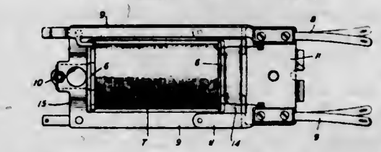
1,946,260
STRIPE PAINTING MACHINE
Edward F. Woods, Oakland, Calif.
Application February 9, 1931. Serial No. 514,487
1 Claim. (Cl. 91—25)

In a stripe painting machine, a carriage including a pair of special frame-bars, a horizontal rod pivotally mounted at its opposite ends in said bars, a vertically disposed bracket fixedly connected to said rod, clamps on said bracket to secure a paint-brush in adjusted relation to the



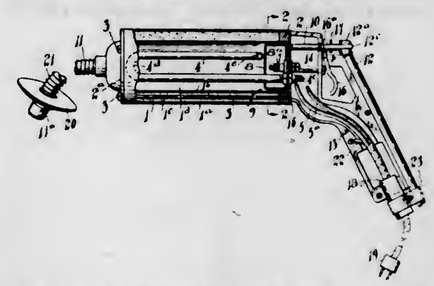
surface to be painted, and an adjusting rod secured to the upper end of said bracket whereby the paint-brush may be rocked to assume various angular positions relative to said surface.

1,946,261
ELECTROMAGNETIC SWITCHING DEVICE
Frank A. Zupa, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 29, 1932
Serial No. 649,292
5 Claims. (Cl. 175—336)



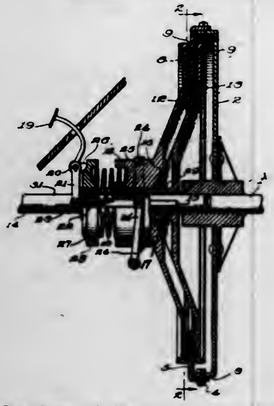
1. An electromagnetic device comprising fixed and movable members, one of said members being provided at one end with a cylindrical projection and at the other end with a spherical projection whereby, upon energization of said device, said members make line and point contact with each other.

1,946,262
HOT AIR GUN
Alexander W. Adams, Lorne Park, Ontario, Canada, assignor to J. C. Adams Company Limited, Toronto, Ontario, Canada
Application February 16, 1932. Serial No. 593,405
7 Claims. (Cl. 219—39)



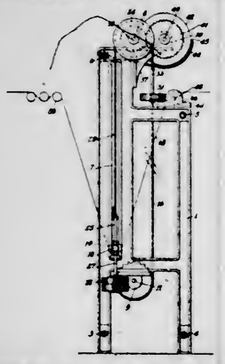
1. A hot air gun comprising a chamber having a compartment in communication therewith; an electric heating element arranged within the chamber and connected in a supply circuit; a thermostat located within the compartment adapted to open the circuit when the temperature in the compartment rises above a predetermined point; an air passage leading from the chamber; and an air inlet leading into the compartment and adapted to direct the incoming air around the thermostat before reaching the heating element chamber.

1,946,263
FRICTION COUPLING
Julius H. Bach, Chicago, Ill.
Application July 1, 1932. Serial No. 620,442
1 Claim. (Cl. 192—68)



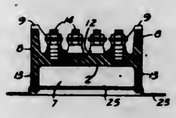
A mechanism of the class described comprising, a ring having opposite faces surfaced with brake lining material, a support for the ring, a pair of disks for engaging the brake lining ring, said disks being positioned to engage opposite surfaces of the ring and being axially movable toward and away from the ring, means for producing such axial motion of the disks, said disks having interfitting hubs, one of said hubs having a cam rigid therewith, and the other hub having an annular groove, a spring bearing between the cam on one of the hubs and the other hub, and means for forcing said cam and the disk rigid therewith in one direction, and simultaneously engaging the groove of the hub of the remaining disk and forcing said disk in the opposite direction.

1,946,264
TENSION CONTROLLING DEVICE
Walter Arthur Baer, Paterson, N. J., assignor to United Piece Dye Works, Lodi, N. J., a corporation of New Jersey
Application June 14, 1930. Serial No. 461,084
4 Claims. (Cl. 242—75)



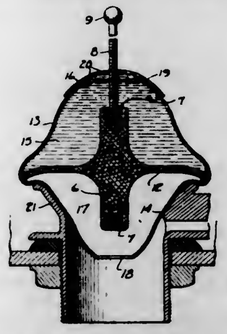
1. In a tension controlling device, a frame, a tension roller mounted in said frame, means for guiding said tension roller, a shaft mounted on said frame, a gear mounted on said shaft, means for driving said gear connected to said tension roller, a second shaft, an indicator mounted on said second shaft, and a gear mounted on said second shaft adapted to be driven by the first-named gear.

1,946,265
TERMINAL BOX
Eric Baguley, Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 23, 1929, Serial No. 415,990, and in Great Britain February 14, 1929
3 Claims. (Cl. 247—7)



1. A cable terminal comprising a base having an opening therein for the entrance of a cable, and other openings for the admittance of drop wires, a single panel of molded insulation material mounted on said base, hollow terminals for connecting said cable to said drop wires molded in said panel and projecting only through the front side thereof, said panel having apertures on the rear side thereof in alignment with said terminals, serrated edges on said panel for fanning out said drop wires, and rearwardly extending sides, a back plate, said back plate being secured to said sides to form with said rearwardly extending sides a sealing chamber.

1,946,266
FLOAT TANK BULB
Nathan Becker, New York, N. Y.
Application September 23, 1931
Serial No. 564,522
14 Claims. (Cl. 4—56)

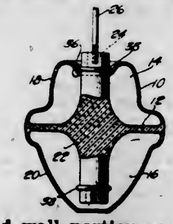


1. A reversible float tank bulb comprising a web transverse to its axis, and on either side of said web an apertured flexible wall adapted to act either as seat engaging means or to enclose a water receiving chamber, said web being provided with oppositely facing means for the securing thereto of bulb operating means.

1,946,267
FLOAT TANK BULB
Nathan Becker, New York, N. Y.
Application May 26, 1932. Serial No. 613,633
10 Claims. (Cl. 4—57)

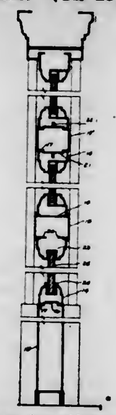
1. A float tank bulb comprising a septum, flexible wall portions above and below said septum,

a boss disposed within said bulb, and openings in



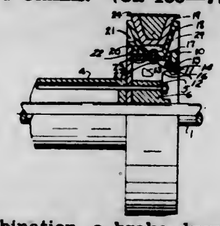
certain of said wall portions adapted to receive said boss to be closed thereby.

1,946,268
METALLIC PARTITION CONSTRUCTION
John A. Bohnsack and Thomas V. Balch, Cleveland Heights, Ohio, assignors to The E. F. Hauserman Company, Cleveland, Ohio, a corporation of Ohio
Application September 10, 1928, Serial No. 304,890
Renewed June 23, 1933
5 Claims. (Cl. 189—34)



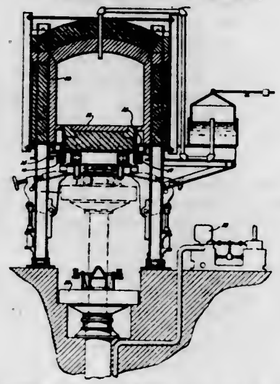
1. In partition construction, a series of panels removably assembled one above another between hollow closed posts, each panel having a framing and a panel-stretcher, said framing being a channel open peripherally with opposite in-turned flanges, and an intermediate hollow horizontal member extending between posts and aligning adjoining panel-framing surfaces, said member having positioning-shoulders adjacent its edges to coact with the adjoining panel-framing.

1,946,269
BRAKE DRUM FOR HOISTING REELS
Burwell Boykin, Jr., Beaumont, Tex.
Application September 30, 1927
Serial No. 222,970
4 Claims. (Cl. 188—77)



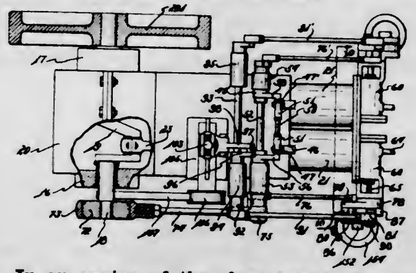
1. In combination, a brake drum rim having its peripheral surface inclined inwardly to form a deep groove, and a brake band having segments thereon adapted to fit within said groove, said rim being constructed with openings through the bottom of said groove to allow a circulation of air between said segments and said rim.

1,946,270
METALLURGICAL FURNACE
Harry O. Breaker, Buffalo, N. Y., assignor to Industrial Furnace Corporation, Buffalo, N. Y.
Application November 14, 1930, Serial No. 495,717
Renewed June 28, 1933
4 Claims. (Cl. 263—28)



1. The method of preventing the interchange of furnace gases with the atmosphere which comprises positioning a layer of iron oxide of average particle size less than forty and eighty mesh between said gases and the atmosphere.

1,946,271
ENGINE
Andrew C. Brownlee, Dearborn, Mich.
Application August 15, 1930. Serial No. 475,454
5 Claims. (Cl. 121—123)



1. In an engine of the class described, a plurality of cylinders; a piston slidably mounted in each of said cylinders, each of said pistons having axially directed passages formed therethrough and provided on one of its faces with a groove connected with said passage; a ring slidably mounted in said groove for closing said passages, said ring having spaced openings formed therein adapted upon movement to one position for registering with said passages; a crank shaft; a rod connected to each of said pistons centrally thereof and projecting axially outwardly from one end of its cylinder; means for connecting said rod to a crank on said crank shaft; a sleeve embracing said rod and movable in unison therewith and rotatably mounted on said rod; a collar fixedly mounted on said sleeve and engaging the non-groove bearing face of said piston, said face hav-

ing slots formed therein; necks carried by said collar, each engaging in one of said slots; bolts projected through said necks and through said piston and through said ring for effecting rotative movement of said ring upon rotative movement of said sleeve relatively to said rod; a boss projecting outwardly from said collar; a securing collar fixedly mounted on said sleeve adjacent its opposite end; a boss on said second collar registering with the boss on said first mentioned collar; a rod connecting said bosses; a rockably mounted arm connected at one end to said last mentioned rod; means for rocking said arm upon travel of said piston a predetermined distance in said cylinder for effecting registration of said ring with the passages in said piston; and means for rocking said arm in the opposite direction for effecting rotation of said ring and non-registration of the slots therein with the passages in said piston upon movement of said piston a predetermined distance in the opposite direction.

1,946,272
CLEANSING COMPOSITION

Roy H. Brownlee, Pittsburgh, Pa.

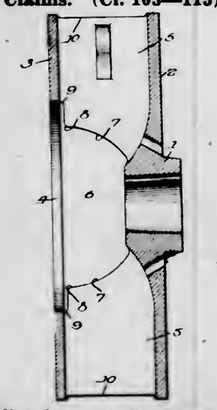
No Drawing. Application August 19, 1931
Serial No. 558,099
1 Claim. (Cl. 87—5)

A non-alkaline cleansing composition suitable for use as a shampoo and as a cleanser for fine fabrics because of its non-alkalinity in water solution, comprising as its chief active cleansing agent a water soluble salt of phosphoric acid of the class of primary sodium phosphate and disodium phosphate characterized by water solubility and by its lack of marked alkalinity in water solution, and a water soluble non-drying oil of the class of sulphonated coconut oil and sulphonated castor oil as a substance producing carrying suds for the active cleansing salt solution, said sulphonated oil being present in a quantity not materially greater than sufficient to neutralize the relatively slight alkalinity of the salt in water solution.

1,946,273
ROTARY PUMP IMPELLER

Bradley S. Carr, Chicago, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a corporation of Maine

Application February 8, 1932. Serial No. 591,488
2 Claims. (Cl. 103—115)

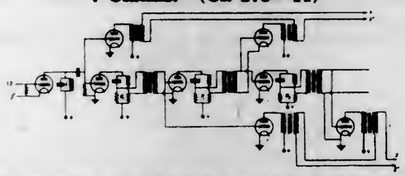


1. An impeller for centrifugal pumps for handling a mixture of liquids and solid particles, said impeller having a hub, a throat presented in the direction of the axis of the hub, front and back discs, said front disc having an intake opening presented co-axially of the throat and a vane having the margin of its inner end diverging continuously from and at a relatively low angle to the axis of the hub and terminating in a shoulder adjacent the intake opening in the front disc, said shoulder having a face perpendicular to the hub axis and extending substantially from the edge of said intake opening to the said continuously diverging margin portion whereby the distance the solid particles must travel in reaching the vanes is reduced thereby preventing the particles from gathering extreme speed before striking the vanes.

1,946,274
METHOD OF SIGNALING

Henri Chireix, Paris, France, assignor to Compagnie Generale de Telegraphie, Paris, France, a corporation of France

Application March 5, 1931, Serial No. 520,309, and in France March 5, 1930
7 Claims. (Cl. 178—44)

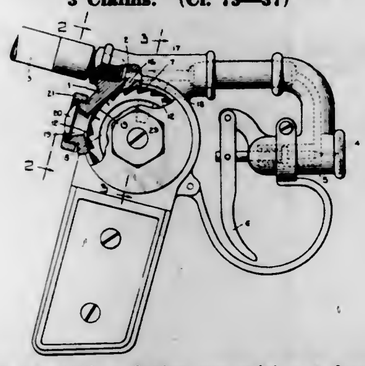


2. Circuit arrangement adapted to obtain from a given wave spectrum two wave spectrums, one presenting the same phase angle as the original wave spectrum, and the other waves spectrum presenting a phase angle of 90 degrees, these two wave spectrums being of like amplitudes, comprising a plurality of circuits associated with the source of current, one of said circuits containing in cascade an even number of phase-displacing circuits causing the change in phase of 90 degrees, and means for superposing the output currents of these latter phase displacing circuits in a common or joint circuit, another of said plurality of circuits associated with the source of current containing in cascade an odd number of the said phase-shifting circuits, and means adapted to superpose the output currents of these latter circuits in another common or joint circuit.

1,946,275
FLUID MEASURING APPARATUS

Charles D. Collins, New York, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application September 17, 1928
Serial No. 306,481
3 Claims. (Cl. 73—37)

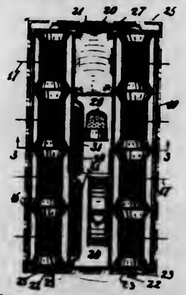


2. A measuring device comprising a housing, having a duct therein including an inlet and a discharge orifice, a rotor in the housing and movable under physical impact of the material flowing through the device, vanes on the rotor and a target secured to the rotor, a window in the housing, said target presenting a bright surface to the window, whereby revolutions of the rotor may be counted.

1,946,276
SPOOL BOX

Perlita de Castro-Barberena, New York, N. Y.

Application January 4, 1932. Serial No. 584,659
4 Claims. (Cl. 206—52)

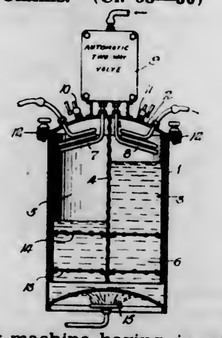


4. A spool box, comprising a box having an open top, a spool chamber in the said box for carrying spools in end to end relation, said spools carrying threads or ribbons extending through openings in the sides of the box, a spool support passing through the opening in the center of the spools and extending slightly from the end of the box, the extended end of said spool support being formed with a vertical slot, and a cover engaged upon said box and having a slot engageable with said slot in the said spool support for the purpose of preventing displacement of the spool support.

1,946,277
WASHING MACHINE

Thore Martin Elfving, Stockholm, Sweden

Application February 3, 1931, Serial No. 513,143, and in Sweden February 3, 1930
7 Claims. (Cl. 68—30)

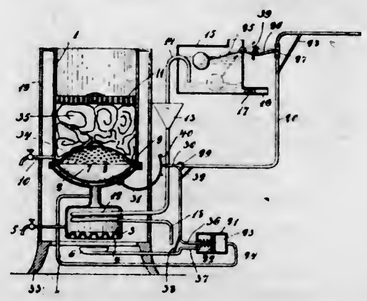


1. A washing machine having, in combination, a plurality of washing chambers adapted to be partially filled with washing liquid and communicating with each other below the normal level of the liquid, means for closing one of said chambers to the atmosphere above said normal level of the washing liquid, means for heating the closed chamber in order to form vapor therein, and means for intermittently condensing the vapor formed.

1,946,278
WASHING MACHINE

Thore Martin Elfving, Stockholm, Sweden

Application September 22, 1931, Serial No. 564,330, and in Sweden June 10, 1931
12 Claims. (Cl. 68—37)

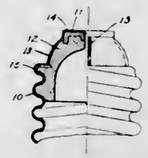


1. A washing machine having a washing chamber adapted to contain a washing fluid, a boiler disposed below said chamber, a liquid tight yielding partition separating said washing chamber from said boiler and forming the bottom of the former, means for heating said boiler to form vapor therein to cause the partition to move, and means for intermittently condensing the vapor formed.

1,946,279
CUT-OUT FOR INCANDESCENT ELECTRIC LAMPS AND SIMILAR DEVICES

Ernst Friederich and Günther Aschermann, Berlin-Charlottenburg, Germany, assignors to General Electric Company, a corporation of New York

Application August 9, 1929, Serial No. 384,724, and in Germany August 17, 1928
3 Claims. (Cl. 176—24)



1. In an electric lamp, the combination of plumbic surfaced terminal members separated and in electrical contact with a shunt resistor containing a copper compound.

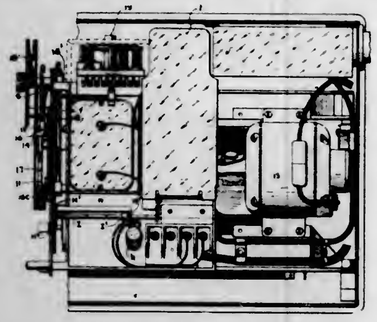
1,946,280
CONTROL INSTRUMENT, APPARATUS AND METHOD

Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 18, 1931
Serial No. 581,932
93 Claims. (Cl. 236—15)

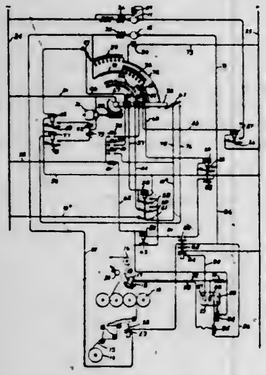
1. In a potentiometric control instrument, the combination with a potentiometer measuring means including a galvanometer deflecting in response to potentiometer unbalance and an element deflecting in accordance with the value of the quantity measured, of control mechanism comprising a member adjacent the path of de-

flection of said element and means for periodically giving said member a movement toward said



path to an extent dependent on the relative positions of said element and member along said path.

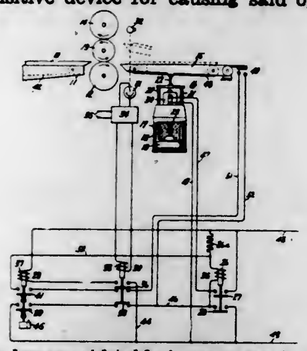
1,946,281
CONTROL SYSTEM
John A. Hepperlen, East Orange, N. J., assignor to General Electric Company, a corporation of New York
Application March 31, 1930. Serial No. 440,199
6 Claims. (Cl. 164—49)



6. The combination with a printing press, or the like, of a driving motor therefor, a switch for said motor, an electric discharge device provided with a cathode circuit for controlling said switch, means responsive to the continuity of the web for operating said discharge device, a source of electrical supply for said motor and connections between the cathode circuit of said discharge device and said source including said switch.

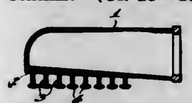
1,946,282
CONTROL SYSTEM
Fred A. Hocke, Homewood, Ala., assignor to General Electric Company, a corporation of New York
Application August 3, 1932. Serial No. 627,337
10 Claims. (Cl. 80—47)

1. A control system for a tilting table operating upon a strip of material comprising means for operating the table, a single light sensitive device controlled by the passage of the strip in one direction for causing said operating means to elevate the table, and means controlled by operation of the table and cooperating with said light sensitive device for causing said operating



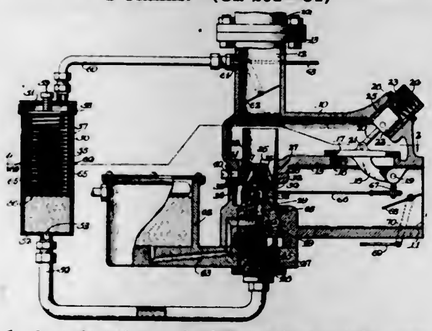
means to lower said table in response to the passage of said strip in the reverse direction.

1,946,283
TOOTHBRUSH
Roy M. Hoffman, Jeannette, and Carl F. Northart, Pittsburgh, Pa.
Application November 17, 1932
Serial No. 643,036
7 Claims. (Cl. 15—188)



1. A toothbrush comprising a plurality of bristles each having at its outer end thereof a disc-like member in a plane at right angles to the bristle and having a relatively thin flat portion adapted to enter spaces between closely adjacent teeth.

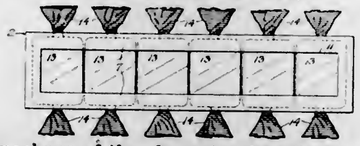
1,946,284
CARBURETOR
Horace H. Huber, Indianapolis, Ind., assignor to William C. Dunn, Chicago, Ill.
Application May 15, 1931. Serial No. 537,550
4 Claims. (Cl. 261—34)



1. A carburetor embodying a fuel nozzle, means for causing an atomization of fuel therethrough, a cylinder having a discharge outlet, means connected with said outlet for injecting fuel through the said nozzle, a piston reciprocable in the cylinder, a connection between the cylinder on the side of the piston opposite to the side on which said outlet is located and the suction side of the engine, a spring operating upon the piston and tending to force the piston in a direction towards the outlet of the cylinder to force the fuel from the cylinder, the engine suction operating to move the piston away from said outlet and place

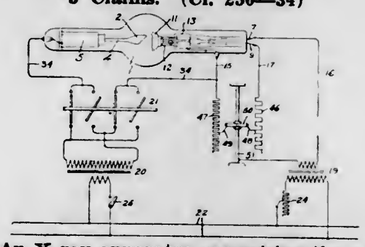
the spring under tension, said spring operating to move the piston when the engine suction drops, and means for varying at will the tension of said spring.

1,946,285
PACKAGE AND CONTAINER THEREFOR
Arthur J. Judge, Bellerose, N. Y.
Application May 25, 1931. Serial No. 539,779
1 Claim. (Cl. 206—44)



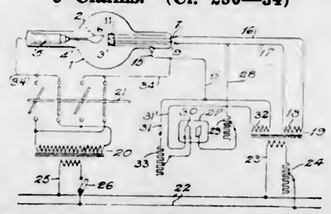
A package of the character described comprising an elongate oblong box structure of stiff sheet material including two box sections having skirt portions telescopically fitted together each of which comprises two oppositely disposed short end walls and two oppositely disposed long side walls, the long side walls of said two sections being formed adjacent to their free edges with rows of registering notches which provide two rows of small apertures, one at each side of said box structure, and one of said box sections having a top wall formed with a window extending longitudinally throughout the greater portion of the length of said section intermediate said rows of apertures, and a plurality of packets of merchandise each of which includes a body portion disposed within said box structure and exposed to view through said window and a wrapper of flexible sheet material having opposite end portions extending through two of said apertures and twisted closely adjacent to said body portion to provide an ornate flower-like rosette outside of said box structure, the twisted portions of said rosettes being completely surrounded by the sheet material of said skirt portions and said apertures being spaced apart relatively so that said packets are disposed side by side within said box structure.

1,946,286
X-RAY EQUIPMENT
William K. Kearsley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 19, 1929
Serial No. 393,819
3 Claims. (Cl. 250—34)



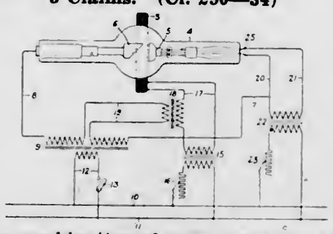
1. An X-ray apparatus comprising the combination of an X-ray tube having a thermionic cathode, conductors connected to said cathode for conveying a current to heat the same, a resistor operatively included in said conductors, main high potential supply conductors connected to the electrodes of said tube, means for focusing X-rays in said tube, a resistor in one of said main supply conductors and connected between said cathode and said focusing means and interlocked resistance-varying means for said respective resistors.

1,946,287
X-RAY EQUIPMENT
William K. Kearsley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 21, 1930. Serial No. 430,418
9 Claims. (Cl. 250—34)



1. The combination of an X-ray tube having main electrodes including a thermionic cathode, a main transformer connected to operate said tube, means for focusing the X-ray producing discharge in said tube, an auxiliary thermionic tube connected in series with said X-ray tube, a conductive connection between said focusing means and said auxiliary tube, a second transformer having secondary windings connected respectively to the cathode of said X-ray tube and the cathode of said auxiliary tube, a common primary winding for said second transformer and a third transformer having a primary winding connected in circuit with said main transformer and a secondary winding connected in circuit with the cathode of said auxiliary tube.

1,946,288
ELECTRON DISCHARGE DEVICE
William K. Kearsley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application September 19, 1929, Serial No. 393,819. Divided and this application May 12, 1932. Serial No. 610,866
5 Claims. (Cl. 250—34)

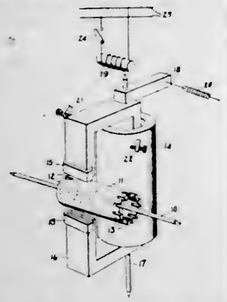


1. The combination of an X-ray device which is provided with a thermionic cathode, means for producing a magnetic field about said cathode for focussing an electrical discharge emanating therefrom, and means for automatically varying the strength of said field inversely in response to variations of current in said discharge device.

1,946,289
MULTIPLE SPEED MOTOR
Max Lilienthal, Berlin-Wilmersdorf, and Lothar Michaelis, Berlin-Charl, Germany, assignors to General Electric Company, a corporation of New York
Application December 16, 1931, Serial No. 581,426, and in Germany December 31, 1930
10 Claims. (Cl. 172—275)

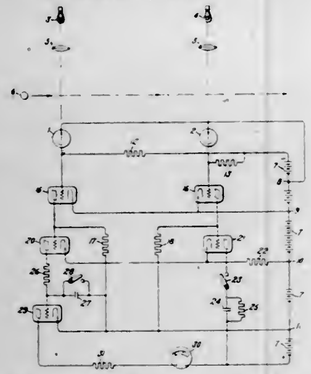
2. A two-speed self-starting synchronous motor mechanism comprising a secondary member having a single unitary induction motor secondary element and two sets of salient magnetic

poles located thereon, the number of poles in the two sets being different, and stator means



for producing an alternating shifting magnetic field through said induction motor secondary element and either set of said salient poles.

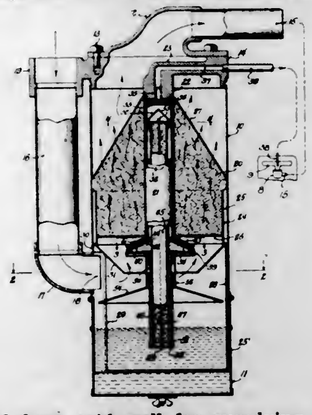
1,946,290
SHORT INTERVAL TIMER
Harold W. Lord, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 3, 1932. Serial No. 627,389
5 Claims. (Cl. 161—18)



1. A short interval timer comprising a first and a second photo-electric device, means for directing a separate light beam into each device, a capacitor, a source of charging current therefor, a vapor electric discharge device responsive to an interception of the light beam of the first device for initiating the charging of the capacitor from said source, a vapor electric discharge device responsive to an interception of the light beam of the second device for terminating the charging of the capacitor and means for indicating the total charge received by the capacitor.

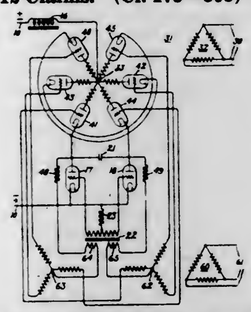
1,946,291
AIR CLEANER
Arthur W. Miller, Milwaukee, Wis.
Application September 24, 1931
Serial No. 564,782
16 Claims. (Cl. 183—10)

4. In an air cleaner for the purposes described the combination of a filter through which air passes, a liquid reservoir, a well having a restricted liquid admission passage below the level of liquid in said reservoir through which said well is supplied with liquid from said reservoir, means including an auxiliary reservoir through which liquid is delivered to said filter, and means



supplied from said well for supplying liquid to said auxiliary reservoir.

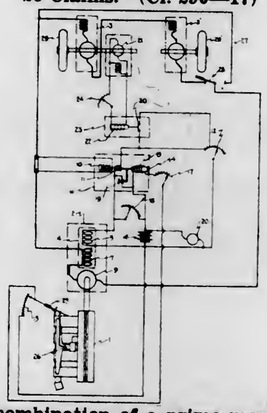
1,946,292
ELECTRIC VALVE CONVERTING APPARATUS
Albert H. Mittag, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 1, 1931. Serial No. 566,375
12 Claims. (Cl. 175—363)



1. Apparatus for transmitting energy between direct and alternating current circuits under any desired power factor conditions on said alternating current circuit comprising an inductive winding in energy transmitting relation with respect to said alternating current circuits, two pairs of serially connected electric valves interconnecting said winding with one side of said direct current circuit, and a connection from said winding to the other side of said direct current circuit, means for successively rendering a valve of each pair alternately conductive and nonconductive, and a commutating capacitor connected between the common connections of said pairs of valves.

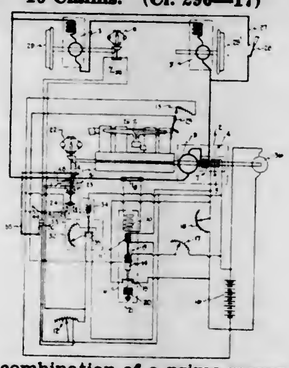
5. Apparatus for transmitting energy between direct and polyphase alternating current circuits under any desired power factor conditions on said alternating current circuit comprising a plurality of inductive windings connected in polyphase relation, an electric valve for each phase winding having one terminal connected thereto, connections between the other terminals of valves connected to alternate phase windings, a commutating capacitor connected between the two connections to alternate valves, and a pair of electric valves each having one terminal connected to one of said connections to alternate valves and having their other terminals connected in a circuit for connection to one side of the direct current circuit.

1,946,293
MEANS OF POWER TRANSMISSION
Henry Rosenthal, New York, N. Y.
Application December 19, 1930
Serial No. 503,458
25 Claims. (Cl. 290—17)



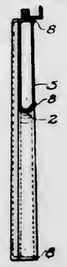
1. The combination of a prime mover, a driving member and an intermediate member functionally connecting the prime mover and driving member together, means distinct from and coacting with the intermediate member responsive to changes in torque of the intermediate member and acting to adjust the torque of the intermediate member, and means connecting the prime mover and intermediate member together, whereby the changes in load on the driving member are transmitted to the prime mover and the speed of the prime mover thereby so adjusted that the changed load becomes substantially the full load of the prime mover at that speed.

1,946,294
MEANS OF POWER TRANSMISSION
Henry Rosenthal, New York, N. Y.
Application June 2, 1931. Serial No. 541,629
16 Claims. (Cl. 290—17)



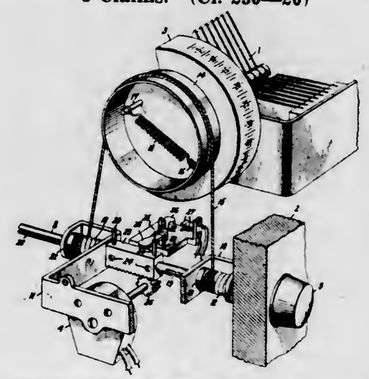
1. The combination of a prime mover, an electric motor, and an intermediate member functionally connecting the prime mover and electric motor together, controlling means co-acting with said intermediate member responsive to changes in load of the electric motor to vary the speed of said prime mover in accordance with the load, and means operating on said controlling means acting to limit the speed of said prime mover.

1,946,295
FURNACE DOOR FRAME
Ralph J. Schade, Mount Lebanon, Pa.
Application August 11, 1932. Serial No. 628,277
2 Claims. (Cl. 122—499)



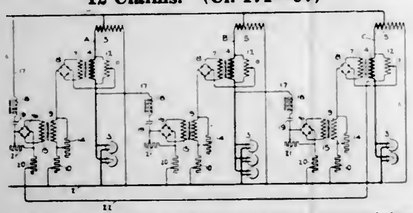
1. A composite furnace door frame comprising a front wall having a peripheral flange constituting integrally cast side, top, bottom and door-opening walls, and a sheet metal plate abutting said peripheral flange joined thereto by welding to form a rear wall said rear wall being of less cross-sectional area than the cast wall.

1,946,296
CONTROL MEANS FOR HIGH FREQUENCY APPARATUS
Hugh M. Stephenson, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 31, 1930
Serial No. 505,839
3 Claims. (Cl. 250—20)



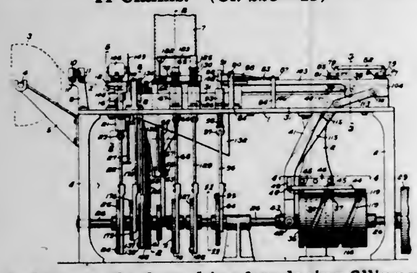
1. The combination, in a radio receiver, tuning means for said receiver, volume control means for said receiver, a shaft arranged for both longitudinal and rotary movement, a rack arranged for longitudinal movement with said shaft and arranged to be free from rotary movement of the shaft, a pinion cooperating with said rack, means for controlling one of said first means in response to rotation of said pinion and for controlling the other of said means in response to rotation of said shaft, an energizing circuit for said receiver including a toggle switch, and means carried by said rack to cooperate with said toggle switch to open and close said switch respectively upon extreme movement of said rack in opposite directions.

1,946,297
ALTERNATING CURRENT CONTROL APPARATUS
Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 26, 1933. Serial No. 668,076
12 Claims. (Cl. 171—97)



12. A sequence operation system comprising a plurality of similar alternating current circuits forming a series and each including a load device and a saturable core reactor for causing the current therein to increase and decrease, means associated with each circuit for controlling the saturation of the reactor therein in response to the operation of the preceding circuit of the series, means for varying the rate of increase of current in each circuit, means for varying the rate of decrease of current in each circuit and means for varying the relative times that corresponding changes take place in the respective circuits of the series.

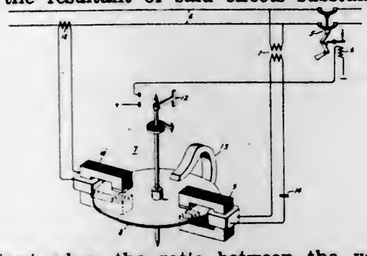
1,946,298
FILLING MECHANISM AND METHOD
Errold B. Thomas, Newton, Mass.
Application August 7, 1926. Serial No. 127,965
44 Claims. (Cl. 223—15)



1. An organized machine for placing filling material in an elongated, flexible casing, comprising a reciprocable tray-like element, means for selecting a quantity of filling material from a supply and positioning the same on said tray-like element, means to engage and draw the casing about said element and positioned filling, and means to withdraw said element while retaining the filling in the casing.

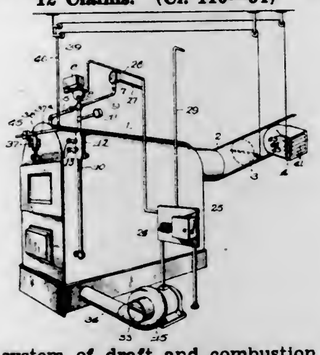
1,946,299
CONTROL OF ELECTRIC CIRCUITS
Oliver C. Traver, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application June 28, 1933. Serial No. 678,037
8 Claims. (Cl. 175—294)

1. An electroresponsive device including a movable member, electromagnetic voltage means for exerting an effect tending to move said member in one direction having a magnetic circuit becoming substantially saturated at a predetermined voltage and electromagnetic current means for exerting an effect tending to move said member in another direction having a magnetic circuit saturable relatively to the saturation of said voltage energized means to maintain the resultant of said effects substantially



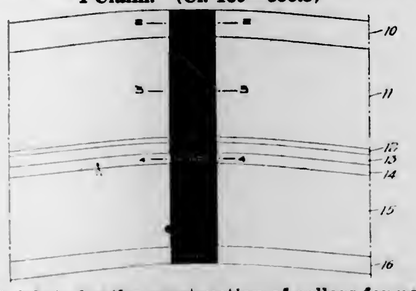
constant when the ratio between the voltage and the current applied to said voltage and current energized means is substantially constant.

1,946,300
AUTOMATIC DRAFT AND COMBUSTION CONTROL
August Vercruyssen, Chicago, Ill.
Application July 6, 1931. Serial No. 548,899
12 Claims. (Cl. 110—54)



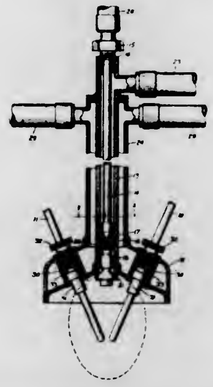
1. A system of draft and combustion control for boilers or the like, comprising a blower, a pair of normally closed switches connected to the steam line from the boiler and adapted to open an electrical circuit to the blower, one of said switches opening the circuit when the pressure in the steam line decreases below a predetermined minimum, and the other opening said circuit when the pressure in the steam line increases above a predetermined maximum whereby the draft is automatically regulated.

1,946,301
FABRIC
Louis H. Weinstein, Mount Vernon, N. Y.
Application March 18, 1932. Serial No. 599,614
1 Claim. (Cl. 139—385.5)



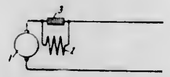
A fabric for the construction of collars for personal wear having disposed lengthwise thereof in narrow spaced relation, a relatively thin and narrow creasing section and a slightly wider creasing section for forming a filler strip therebetween for folding said collars for wear, said filler strip and said wide creasing section being of substantially equal width, and said fabric and said creasing sections being curved lengthwise thereof.

1,946,302
WELDING APPARATUS
Irving F. Weller, Schenectady, N. Y. assignor to General Electric Company, a corporation of New York
Application May 1, 1931. Serial No. 534,302
7 Claims. (Cl. 219—8)



1. Welding apparatus comprising means for holding an electrode, and means for producing a bulbous flame about the arcing terminal of said electrode.

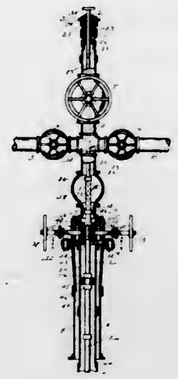
1,946,303
DYNAMO-ELECTRIC MACHINE CONTROL
Harold W. Brown, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 22, 1932. Serial No. 618,738
9 Claims. (Cl. 171—229)



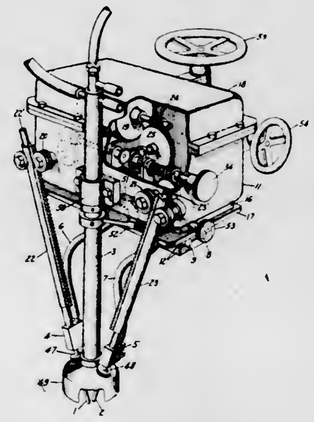
1. In combination, a dynamo-electric machine having a series field winding, and a negative impedance-current characteristic impedance material connected in parallel with said series field winding so that increases in current through said field winding cause decreases in the value of said impedance.

1,946,304
OIL WELL APPARATUS
Willis Wilson Bryant, Chatsworth, Calif.
Application December 17, 1931
Serial No. 581,631
16 Claims. (Cl. 166—14)

1. In oil well apparatus: a vertically extending oil-delivering pipe having an oil vent through its side adjacent its upper end; a tubular casing spacedly surrounding the pipe, receiving the oil from its vent and having a discharge vent, the pipe being vertically movable in the casing; releasable means for holding the pipe in moved position.



1,946,305
WELDING APPARATUS
James T. Catlett, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 1, 1931. Serial No. 534,362
17 Claims. (Cl. 219—8)

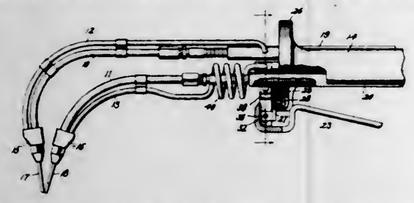


8. Welding apparatus comprising a plurality of electrode holders, and means for producing an enclosing curtain of gas spaced from and about the portions of the electrodes extending from said holders.

1,946,306
WELDING TORCH
James T. Catlett, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application May 3, 1933. Serial No. 669,187
9 Claims. (Cl. 219—8)

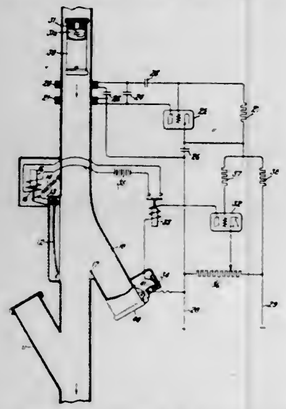
3. An arc welding torch comprising a support, a plurality of electrode holders having curved

converging terminal portions, means for displacing one of said holders in said support, and means



for rotating one of said holders about its axis in said support.

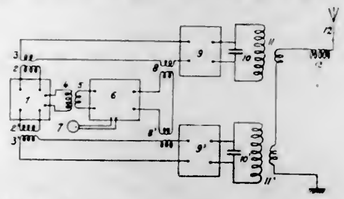
1,946,307
CARRIER CONVEYER SYSTEM
Dudley E. Chambers, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 16, 1932. Serial No. 617,597
4 Claims. (Cl. 243—16)



1. In a carrier conveyer system, carrier selective means comprising an oscillation circuit associated with a conveyer of said system and normally in a state of oscillation, a closed oscillation circuit carried by a carrier of said system for decreasing the oscillation of said circuit when passing the same and means responsive to said decrease in oscillation for controlling the path of travel of said carrier.

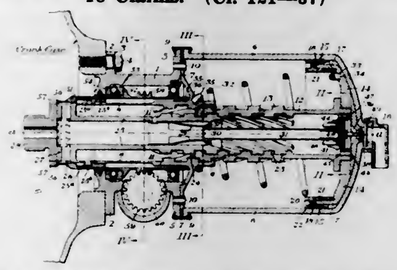
1,946,308
APPARATUS FOR RADIOCOMMUNICATION
Henri Chireix, Paris, France
Application July 19, 1932, Serial No. 623,333, and in France July 29, 1931
3 Claims. (Cl. 250—17)

1. Apparatus for the emission of electric waves modulated in amplitude comprising a source of electrical energy having a carrier frequency, two differential circuits comprising at their output portions two oscillatory circuits, one of which is detuned below the carrier frequency while the other is detuned above said carrier frequency, each of said differential circuits being arranged to carry a portion of the non-modulated energy of the said source, of means for diverting another portion of said energy and for transforming its phase in quadratic relationship to that of the energy of the said source, of means for modulating in amplitude the said energy transformed in quadratic relationship, of means for superimposing the modulated energy on that which is non-modulated in the differential circuits and a common output circuit



coupled to said oscillatory circuits so as to produce an emitted wave of modulated amplitude.

1,946,309
MOTOR
Roscoe A. Coffman, Pittsburgh, Pa.
Application August 28, 1929. Serial No. 388,870
18 Claims. (Cl. 121—37)

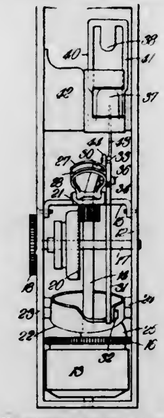


1. In a motor, rotatable driven means, reciprocating driving means, means for rotating said driving means upon reciprocation thereof, and interengaging means between the driving and driven means for rotating said driven means upon such reciprocation. said two last mentioned means being effective for imparting to the driven means a greater rotation than that of the driving means and a piston for imparting movement to the driving means, both of said rotating means lying wholly upon that side of the piston remote from its working face in all positions of piston travel.

1,946,310
MEANS FOR INTERMITTENTLY TRAVERSING PHOTOGRAPHIC FILMS AND OBTAINING SYNCHRONIZED FILM AND SHUTTER MOVEMENTS IN CINEMATOGRAPHIC CAMERAS AND PROJECTORS
Charles Edward Hillery-Collings, London, England, assignor, by mesne assignments, to Camera-Projectors Limited, London, England, a British company
Application February 25, 1932, Serial No. 595,103, and in Great Britain March 16, 1931
7 Claims. (Cl. 88—18.4)

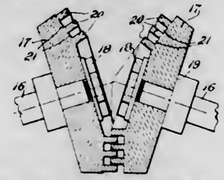
3. An instrument adapted for use as a cinematographic camera and projector, including a fly wheel having a cam portion, means for rotating said fly wheel, a pivoted frame in contact with said cam portion and adapted to be directly rocked thereby upon rotation of the fly wheel, a shaft extending axially from said fly wheel and having a crank upon the free end thereof, a second pivoted frame engaging the crank and adapted to be rocked thereby, a claw arm adapted to engage a strip of film and produce travel thereof, which claw arm is pivoted upon said first mentioned frame so as to receive the longitudinal reciprocatory component of its movement from said frame

and is further connected by means of a pin and slot connection with said second frame so as to



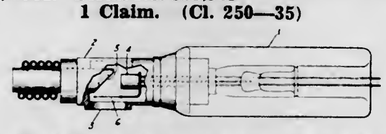
receive the transverse component of its movement from said last frame.

1,946,311
KNIFE GRINDING MECHANISM
Joseph Alfred Comeau, Boston, Mass.
Application February 17, 1933. Serial No. 657,216
3 Claims. (Cl. 51—111)



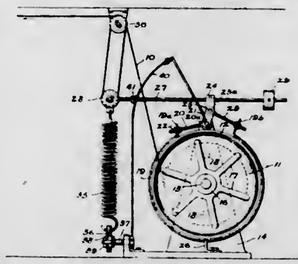
1. A knife-sharpener comprising a pair of complementary rotatably supported abrasive wheels disposed side by side so as to receive between them the knife blade that is to be sharpened and having their proximate faces each formed with a plurality of concentric conical ribs alternating with conical grooves, and means rotatably supporting said wheels in close proximity to each other with their axes obliquely disposed relatively in one plane so that the opposite sides of a blade that is to be sharpened are engaged by the crests of all of said ribs, the ribs of each wheel being intermeshed with the ribs of the other wheel and the crests of the ribs of each wheel being relatively offset axially so that all of the ribs of each wheel mesh with and overlap the ribs of the other wheel uniformly.

1,946,312
X-RAY TUBE
William D. Coolidge, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application October 18, 1927, Serial No. 227,027. Divided and this application March 19, 1931. Serial No. 523,823
1 Claim. (Cl. 250—35)



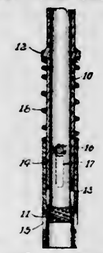
An X-ray tube including an envelope and containing an anode and a cathode, said tube having a metal window electrically connected to said anode and transparent to X-rays, and means for electrostatically protecting the window from electron bombardment, said means comprising a grid positioned intermediate the target and the window, and a connection between the grid and the cathode.

1,946,313
TENSIONING DEVICE
Leon C. Daniels, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 8, 1929. Serial No. 369,367
8 Claims. (Cl. 242—156)



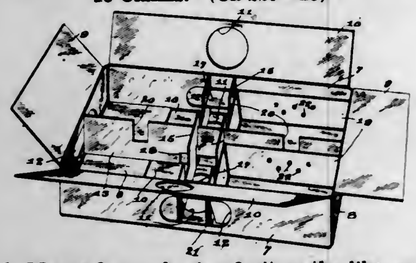
1. A tensioning device for coil winding machines comprising in combination with a spool from which the material being wound is drawn, a brake drum for said spool, a resilient metallic brake band substantially surrounding said brake drum and being mounted to float freely about said drum, lever mechanism responsive to the tension in the material being drawn for moving a portion of said brake band laterally with respect to said drum whereby the arc of contact between said band and said drum is varied to provide for a gradual change in the applied braking force and a fulcrum arranged to engage said resilient brake band at a point between its ends when said portion of said band has been moved laterally from said drum a predetermined distance.

1,946,314
BATTERY FILLING DEVICE
William C. Desmond, Chicago, Ill.
Application August 1", 1931. Serial No. 557,486
11 Claims. (Cl. 215—78)



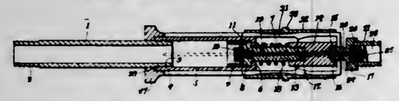
7. A device of the class described comprising a tubular member for connection at one end to a liquid supply, said member having the other end closed and having apertures therein adjacent said closed end, a sleeve member slidably positioned over the closed end of said tubular member, and means tending to maintain said sleeve in normal position covering said apertures whereby when pressure is applied to said sleeve to move the same to uncover said apertures the liquid may flow out of said apertures and when said pressure is released said sleeve is automatically returned to normal position.

1,946,315
MEANS FOR PACKAGING FRUIT OR THE LIKE
George K. S. Ferguson, North East, Pa.
Application May 21, 1931. Serial No. 539,101
18 Claims. (Cl. 229—15)



1. Means for packaging fruit or the like, comprising a primary carton formed of manufactured fibrous sheet material and having side walls and a flat top and bottom, vertical partition means arranged in the carton and extending from the bottom to the top and supporting the latter, said partition means including partitions spaced apart and arranged so as to form a ventilating flue within the carton, each of said side walls being provided with a ventilating opening of substantial area, and one of the spaced partitions being cut away to provide a ventilating opening.

1,946,316
LUBRICATING MEANS
Joseph C. Friend, Ashtabula, Ohio
Application July 1, 1933. Serial No. 678,706
2 Claims. (Cl. 285—173)



2. Connecting means for lubricant guns comprising in combination a cylindrical member, a plunger in said cylindrical member, means to prevent the escape of lubricant from said cylindrical member past said plunger, said plunger having a part extending through one end of said cylindrical member, a coupler member on the outer end of said plunger and having a coupler seat at its free end, said plunger and coupler member having registering openings forming a conduit from said cylindrical member to said coupler seat, means for urging said plunger and coupler member outwardly with respect to the cylindrical member, a retaining collar normally surrounding said cylindrical member, said plunger, and said coupler member and being split to form a plurality of retaining jaws adjacent said coupler seat, said collar being slidable longitudinally with respect to said cylindrical member to uncover and allow access to said plunger and said coupler member.

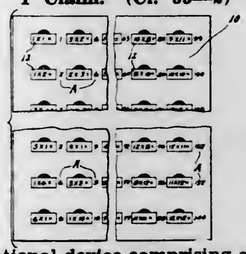
1,946,317
SHOE AND FOOT NORMALIZER
Harry Glen Hall, New York, N. Y.
Application November 7, 1929, Serial No. 405,377
Renewed May 18, 1933
3 Claims. (Cl. 36—71)

1. An arch support adapted to fill the recess formed between the shank and the substantially flat portion of a shoe sole, comprising a resilient member having a curved front edge substantially as wide as the interior of the shoe, a curved outside edge, and a substantially straight inside edge, the side edges tapering to a rounded rear end, said member having both its top and bottom



surfaces curved transversely and longitudinally, the curvature of the lower surface exceeding that of the upper.

1,946,318
EDUCATIONAL GAME DEVICE
Eugene B. Hamilton, West Somerville, Mass.
Application April 10, 1931. Serial No. 529,005
1 Claim. (Cl. 35—2)

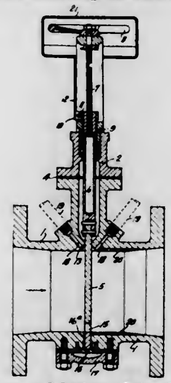


An educational device comprising a board with a multiplicity of answers fixed distributively thereon, and a multiplicity of loose question-bearing blocks adapted to be arranged on the board according to selection of answer by the player, combined with a proof sheet adapted to be laid over the board and having openings through which all of said arranged blocks are visible simultaneously; each of said blocks having a distinctive character on its margin; and one of said openings having multiple characters on its margin, each corresponding to the character on a different one of diverse blocks of which all have an identical answer, whereby when any one of said diverse blocks is set to appear in said opening, its character will register with a like character on the margin of said opening.

1,946,319
VARIABLE ORIFICE FOR MEASURING THE FLOW OF FLUIDS
John Lawrence Hodgson and Horace Edward Dall, Luton, England, assignors to George Kent, Limited, London, England
Application November 5, 1931. Serial No. 573,284
17 Claims. (Cl. 73—167)

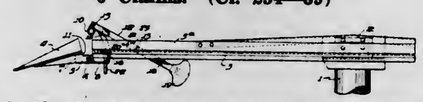
17. In apparatus for measuring the flow of fluids, the combination of a casing having a flow passage adapted for connection in a pipe line, an extension on said casing substantially normal to said flow passage, said casing being provided with a guide way substantially normal to said flow passage and with an aperture extending through said casing in the line of said guide way and opposite said casing extension; a plate mounted for movements in said guide way transversely of said orifice for controlling the effective area of the latter and projecting into said casing extension and being adapted to be withdrawn through said aperture, said casing being provided with pressure holes for allowing differential pressure created by said plate to be

transmitted to a pressure responsive device; operating means extending inwardly through said



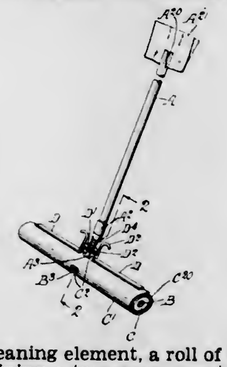
casing extension and being detachably connected to said plate; and means connected to said casing for closing said aperture.

1,946,320
AUTOMATIC CHOCK FOR AUTOMOBILE LIFTS
Edward E. Hollister, Quincy, Ill., assignor to Hollister-Whitney Company, Quincy, Ill., a corporation of Illinois
Application November 17, 1930
Serial No. 496,298
6 Claims. (Cl. 254—89)



1. Chock means for automobile lifts comprising a chock carried by the lift and movable to and from operative position relatively thereto, lever-means including a weight to rest on the ground for moving the chock into operative position when the lift ascends, pawl-means for locking the chock in operative position, and pawl-release means engageable with the ground during descent of the lift and operable by continued descent of the lift.

1,946,321
CLEANING DEVICE
Hester W. Hunter, Geneva, Ill.
Application August 9, 1933. Serial No. 684,305
14 Claims. (Cl. 15—228)

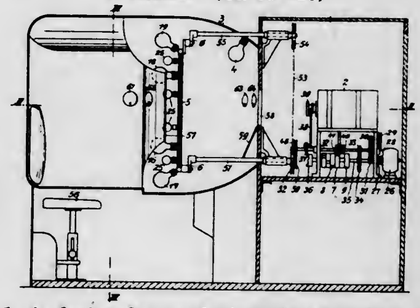


1. In a cleaning element, a roll of cleaning material containing a transverse aperture penetrating the roll from outside to inside the roll.

1,946,322
COMPOSITION FOR THE IMPREGNATION OF CABLE INSULATION
George F. Kennedy, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 24, 1928
Serial No. 328,318
7 Claims. (Cl. 134—78.6)

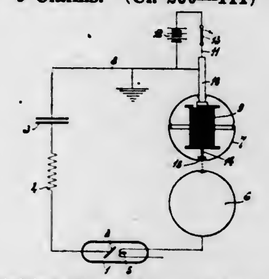
1. A composition for the impregnation of cable insulation which contains as ingredients a hydrocarbon oil and rosin substantially free from oxidized components in amount from about 5% to about 50%.

1,946,323
DEVICE FOR TAKING PHOTOGRAPHS IN SERIES
Stanislaus Kucharski, Berlin-Charlottenburg, Germany
Application July 16, 1929, Serial No. 378,722, and in Germany July 19, 1928. Renewed May 31, 1933
5 Claims. (Cl. 88—16)



1. A device for producing photographic pictures in series, comprising, in combination, a camera, means for feeding successive sensitive surfaces to said camera, illuminating devices arranged on different sides of the person to be photographed, means for actuating successively various of the illuminating devices, and means for simultaneously operating said feeding means and actuating means so that the illumination on the person to be photographed is changed as each new sensitive surface is exposed in the camera.

1,946,324
HIGH TENSION SWITCH
Alfred Kuntke, Eindhoven, Netherlands, assignor to C. H. F. Muller Aktiengesellschaft, Hamburg, Germany
Application December 31, 1931, Serial No. 584,225, and in Germany January 19, 1931
9 Claims. (Cl. 200—111)



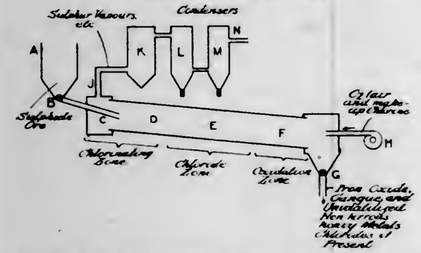
1. A switching device for electric currents under high tension comprising two conductive mem-

bers spaced apart to form a gap and having smooth adjacent surfaces of such character as to minimize concentration of the electrostatic field therebetween, one of said members having an aperture opposing the second member, a rod-shaped switching member electrically connected to the apertured member and disposed behind the said aperture and means to cause the switching member to project through the aperture in the direction of the opposite member.

1,946,325
TREATMENT OF IRON PYRITES

Stanley Isaac Levy, London, England, assignor to Sulphide Corporation, New York, N. Y., a corporation of Delaware

Application February 25, 1928, Serial No. 257,097, and in Great Britain February 10, 1928
11 Claims. (Cl. 23—200)



11. In the treatment of sulphide material containing iron for the recovery of elemental sulphur and other valuable substances therefrom, the steps which comprise treating such a material with ferric chloride vapours in an amount just sufficient to convert the iron to ferrous chloride, while maintaining a temperature sufficient to cause the ferric chloride to react with said material, to form ferrous chloride and displace the sulphur content thereof in elemental form, and removing the liberated sulphur as vapours of elemental sulphur.

1,946,326
TIRE COVER

George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Asbury Park, N. J., a corporation of Delaware

Application June 8, 1931. Serial No. 542,787
3 Claims. (Cl. 150—54)



1. A tire cover having an exposed edge return bent in spaced relation to the body of the cover, a strip of metal of greater cross-sectional curvature than the cover and having a marginal edge thereof disposed in the space between the cover and the first marginal edge and clinched therein.

2. The method of securing a strip of molding to a circular edge of a tire cover member, which comprises the steps of bending said edge upon itself to provide a circular groove, forming said strip into a circle with its ends overlapped, positioning said strip with its inner edge disposed in said groove, forming a hole in said member adjacent said groove and positioning said overlapped ends in substantial alignment with said hole, applying the poles of a spot welding apparatus to the exposed sides of said overlapped ends, and spot welding the same.

1,946,327
METHOD OF MANUFACTURING A MAGNESIA CEMENT

Ryosaku Matsuura, Shotokugai, Dairen, Manchuria, China, assignor to Minami Manshu Tetsudo Kabushiki Kaisha, Dairen, Manchuria, China, a corporation of Japan

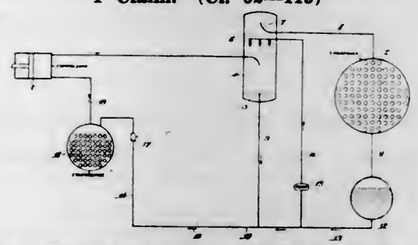
No Drawing. Application February 14, 1930
Serial No. 428,517
2 Claims. (Cl. 106—24)

1. Magnesia cement consisting of light burned magnesite containing 85% of magnesium oxide, and almost insoluble magnesium sulphite.

1,946,328
APPARATUS FOR REMOVING SUPERHEAT FROM COMPRESSED GAS TO BE CONDENSED IN A SURFACE CONDENSER

Judson Neff, Louisville, Ky.

Application July 12, 1932. Serial No. 622,131
1 Claim. (Cl. 62—115)

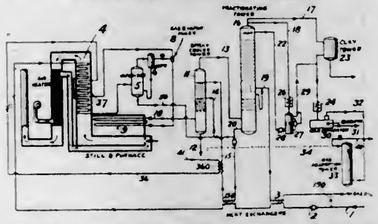


In a refrigeration system using a liquefiable gas refrigerant, the combination with a condenser and a compressor, of means providing a chamber in communication with the condenser and compressor between them, and conduit means leading from the bottom of the condenser to the top of said chamber to feed some of the gas in a liquid state into the chamber to saturate the gas on its way to the condenser from the compressor to lower the pressure in the condenser and at the same time increase the heat transfer efficiency of the condenser.

1,946,329
PROCESS OF CRACKING MINERAL OIL

Arthur E. Pew, Jr., Bryn Mawr, Pa., assignor to Sun Oil Company, of Philadelphia, Pa., a corporation of New Jersey

Application November 9, 1929. Serial No. 405,870
8 Claims. (Cl. 196—61)

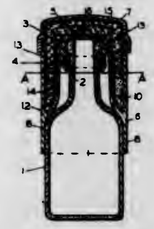


1. The process of cracking mineral oil charging stock which comprises vaporizing the oil in one locus, removing from the vapors mechanically entrained liquid particles, then drying the oil vapors in another locus by mixing therewith a relatively small proportion of a dry hydrocarbon gas, then at still another locus heating the mixture to a cracking temperature and cracking the oil vapors, and cooling and fractionating the vapors.

1,946,330
ADHESIVE LIQUID CONTAINER ADAPTED TO READY USE, AND MEANS OF SEALING THE SAME

George W. Nesmith, Tulsa, Okla.

Application April 21, 1932. Serial No. 606,639
3 Claims. (Cl. 215—80)

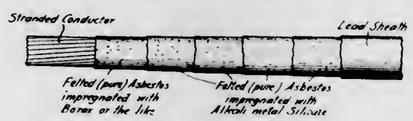


1. A seal for an adhesive liquid container having an opening, said seal comprising a body portion, a reservoir therein wherein a moistening fluid may be placed, an absorbent material in said body portion and positioned therein to seal said opening of said container against exposure to the atmosphere and also adapted to absorb said moistening fluid from said reservoir, and means of holding said seal on said container.

1,946,331
INSULATED ELECTRICAL CONDUCTOR

Beauford H. Reeves, New Haven, Conn., assignor to Rockbestos Products Corporation, a corporation of Massachusetts

Application April 6, 1933. Serial No. 664,708
12 Claims. (Cl. 173—264)



5. An insulated electrical conductor incapable of evolving an inflammable or explosive gas at elevated temperatures which comprises a metallic conductor insulated by flexible insulation including non-brittle fibrous material in an amount sufficient to retain at least a part of the insulation on the conductor, said insulation being capable of forming a vitreous-like tube when subjected to elevated temperatures without evolving an inflammable or explosive gas.

1,946,332
DRESSING, SIZING, AND SOFTENING OIL

Bruno Rewald, Hamburg, Germany, assignor to Hanseatische Muhlenwerke Aktiengesellschaft, Hamburg, Germany, a joint-stock company of Germany

No Drawing. Application April 17, 1930, Serial No. 445,230, and in Germany April 20, 1929
7 Claims. (Cl. 134—18)

5. A dressing, sizing and softening oil for textiles comprising an emulsion of soya bean phosphatides in extracted condition and chemically uncombined, fatty oil, fatty acid, Turkey-red oil and water and substantially free from the remaining constituents of the vegetable material other than the oil.

1,946,333
PROCESS FOR THE PRODUCTION OF RUBBER MIXTURES

Bruno Rewald, Hamburg, Germany, assignor to Hanseatische Muhlenwerke Aktiengesellschaft, Hamburg, Germany

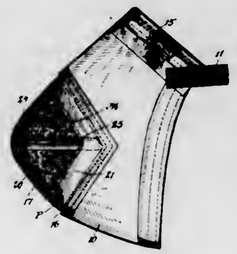
No Drawing. Application October 8, 1931, Serial No. 567,763, and in Germany November 20, 1930
19 Claims. (Cl. 18—53)

19. As a new product of manufacture, vulcanized rubber compositions comprising phosphatide from soya bean incorporated prior to vulcanization.

1,946,334
RESPIRATOR

Nathan Schwartz, New York, N. Y., assignor to Sylvia Schwartz, New York, N. Y.

Application December 15, 1930
Serial 502,575
1 Claim. (Cl. 128—146)



A respirator having a body of gas impervious material provided with an opening adjacent the nose and mouth of the wearer, said opening being of substantially diamond shape, and a pocket forming structure for holding an absorbent element containing a substance for counteracting injurious matter passing through the opening, said pocket structure being located in and closing the opening and which pocket structure includes as part thereof a flexible screen material constituting a wall of the pocket, said screen material being of substantially rectangular form, the four edges of the screen material being contracted intermediate the ends of each edge so that the central portion of the screen material will bulge outwardly, a continuous marginal strip secured to the inner face of the body and covering the edges of the pocket forming structure, and a bowed element having its ends located in the angles of the marginal strip and bulged outwardly against the pocket forming structure.

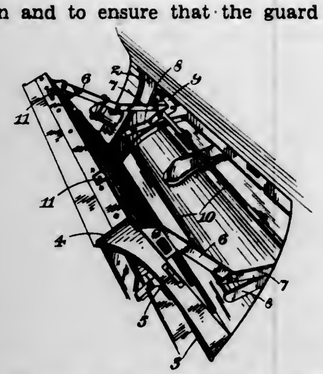
1,946,335
LUGGAGE CARRIER FOR MOTOR VEHICLES

John Davenport Siddeley, Kenilworth, England

Application July 2, 1932, Serial No. 620,697, and in Great Britain August 1, 1931
3 Claims. (Cl. 296—37)

1. For a motor-vehicle, a luggage-carrier comprising the combination with the vehicle body having a recess formed in it, of a cover, for the mouth of the recess, which is movable into an open, luggage-supporting position, a guard for screening an edge of the vehicle body around the recess, and pivoted links interconnecting the cover and guard and acting to support the former in the open and the latter in the screening

position and to ensure that the guard will be



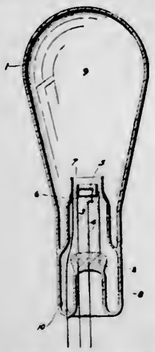
withdrawn into the recess while the cover is being closed.

1,946,336

GASEOUS DISCHARGE DEVICE

Charles G. Smith, Medford, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application March 25, 1929. Serial No. 349,829
14 Claims. (Cl. 176—122)



1. An electron discharge device comprising the combination with an envelope, of two compartments within the envelope, a cathode and an anode in one of the said compartments, and a mixture of gases in the other compartment, the said anode being of such thinness that electrons emitted from the cathode will pass through the anode at a velocity sufficient to ionize gas particles in the gas containing compartment to produce a glow.

1,946,337

MANUFACTURE OF SUBMARINE OR OTHER SIGNALING CABLES

Willoughby Statham Smith, Benchams, Newton Poppleford, Henry Joseph Garnett, Lymne, Solefields, Sevenoaks, and John Norman Dean, Orpington, England

Application January 2, 1931, Serial No. 506,306, and in Great Britain January 8, 1930
5 Claims. (Cl. 173—264)

1. In a signaling cable, conducting means, a thermoplastic insulation for said conducting means embodying gutta percha or the equivalent, and a coal tar containing body in said cable in proximity to said gutta percha insulation so that the latter is subjected to its influence, the coal tar being substantially free from acid and basic



components as well as the more volatile components.

1,946,338

TRACING PAPER AND METHOD OF PRODUCING

Harold M. Spurlin, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 11, 1929
Serial No. 391,981
1 Claim. (Cl. 91—68)

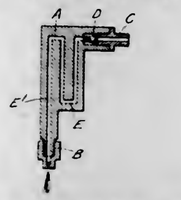
As a new article of manufacture a sheet capable of receiving ink, substantially transparent and waterproof and substantially free from greasiness and comprising a thin sheet of substantially porous paper impregnated with and having a thin surface coating comprising essentially a composition containing nitrocellulose and a plasticizer.

1,946,339

FUEL INJECTION DEVICE FOR INTERNAL COMBUSTION ENGINES

Ronald Whitehair Vigers and Ernest Edward Chatterton, London, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain

Application February 26, 1932, Serial No. 595,407, and in Great Britain June 25, 1931
5 Claims. (Cl. 299—107.1)



2. A fuel injection device of the airless open nozzle type for association with an internal combustion engine of the liquid fuel injection compression ignition type comprising an open nozzle and a part formed with an unobstructed fuel supply passage to said nozzle, said passage comprising a delivery passage communicating at its lower end with the nozzle, an intermediate passage communicating at its upper end with the upper end of the delivery passage, and a feed passage communicating at its lower end with the lower end of the intermediate passage.

1,946,340

SPRING

Paul Otto Friedrich Vorwerk, Volklingen-on-the-Saar, Germany, assignor to Edelstahlwerk Röchling Aktiengesellschaft, Volklingen-on-the-Saar, Germany

No Drawing. Original application October 10, 1930, Serial No. 487,920, and in Germany October 16, 1929. Divided and this application July 26, 1932. Serial No. 624,893
2 Claims. (Cl. 267—1)

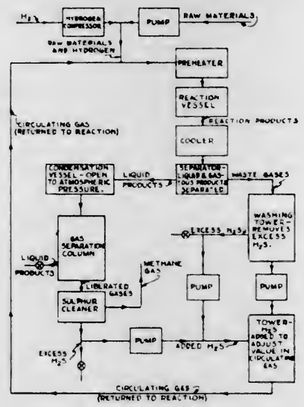
1. A flat metal spring to be subjected to repeated bendings of substantial magnitude tending to produce fatigue having its surface layer compacted thereby having increased resistance against bending fatigue.

1,946,341

DESTRUCTIVE HYDROGENATION OF CARBONACEOUS MATERIALS

Lajos von Szeszich, Constance, Germany, assignor to Deutsche Gold- & Silber-Scheideanstalt, vormals Roessler, Frankfort-on-the-Main, Germany

Application March 30. 1931, Serial No. 526,545, and in Germany and Austria April 5, 1930
11 Claims. (Cl. 196—53)



6. A process for the treatment of carbonaceous materials of the class set forth which consists in mixing a carbonaceous material containing sulphur with another carbonaceous material which is poorer in sulphur, treating the mixture with hydrogen at temperatures of 350° C. to 600° C. and at pressures in excess of 100 atmospheres in a reaction vessel containing a catalyst including a metal selected from the group consisting of iron, nickel and cobalt, in an amount sufficient to have a substantial catalytic effect, there being present continuously throughout the entire reaction a quantity of hydrogen sulphide such that the activity of said catalyst is increased over the action of said catalyst including the metallic sulphides when employed in the process in the absence of said hydrogen sulphide.

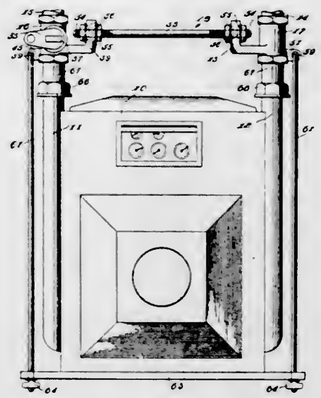
1,946,342

METER HANGER

Harry G. Weymouth, Pittsburgh, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 3, 1929. Serial No. 352,284
9 Claims. (Cl. 285—3)

1. A meter hanger comprising a pair of connectors for detachable connection with the service and house pipes and the inlet and outlet terminal pipes of a gas meter; said connectors having aligned lateral extensions provided with holes; a rod extending across said connectors and passing directly through said holes; and means comprising nuts threaded on said rod adapted to be clamped against said extensions for rigidly securing said rod to said extensions in various



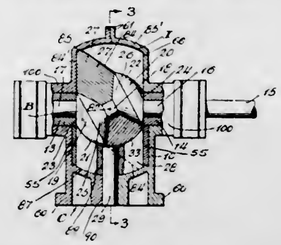
angular and longitudinal positions relative to said connectors.

1,946,343

FLUID ACTUATOR AND PUMP

Alois Wicha, Dresden, Germany, assignor to Erospha, Inc., Brooklyn, N. Y., a corporation of New York

Application February 13, 1933. Serial No. 656,639
19 Claims. (Cl. 103—133)



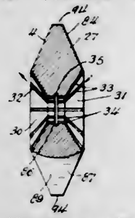
1. In a fluid actuating apparatus, a casing with an interior spherical pumping chamber with inlent and outlet ports, an impeller dividing said chamber into a plurality of compartments, a rotatable driving shaft provided with an oblique slot receiving said impeller, and a guide member preventing rotation of said impeller while permitting it to oscillate to rotate said compartments, whereby it will convey fluid from said inlet port to said outlet port, said slot having centrally converging complemental frusto-conical bearing surfaces opposed to each other, and said impeller having similar surfaces engaging the first-named surfaces, the conical bearing surfaces of said slot being rigidly connected by an oblique cylindrical member having a cylindrical bearing surface and said impeller having a central cylindrical bearing surface engaging said connecting cylindrical bearing surface, said engaging conical bearing surfaces and said cylindrical bearing surface of said slot and the corresponding engaging surface of said impeller closely contacting with each other and forming spaced areas of contact of truncated conical shape connected together by a central cylindrical contact area extending between the portions of the frusto-conical contact areas of smallest diameter, said guiding member and said impeller also having a slotted connection in respect to each other.

1,946,344

LUBRICATION SYSTEM

Alois Wicha, Dresden, Germany, assignor to Erospha, Inc., Brooklyn, N. Y., a corporation of New York

Application February 13, 1933. Serial No. 656,640
9 Claims. (Cl. 103—133)



1. In a fluid actuating apparatus, a casing with an interior spherical pumping chamber with inlet and outlet ports, said chamber being provided with spaced side walls and with a continuous spherical peripheral wall connecting said side walls, an impeller provided with a spherical peripheral edge located in close adjuxtaposition to said spherical peripheral wall of the chamber and with side walls oppositely contacting and diverging from the side walls of said chamber and thereby dividing said chamber into a plurality of compartments, a rotatable driving shaft provided with an oblique groove receiving said impeller, and a guide member preventing rotation of said impeller while permitting it to oscillate to rotate said compartments, whereby it will convey fluid from said inlet port to said outlet port, the contacting surfaces between said impeller and said groove being provided with at least two interconnected grooves opening on opposite sides of the impeller for the circulation of a lubricant.

1,946,345

PROCESS FOR PREPARING LOBELIA ALKALOIDS, THEIR DERIVATIVES AND ALLIED COMPOUNDS

Heinrich Wieland, Munich, Germany, assignor to the firm of C. H. Boehringer Sohn, Nieder-Ingelheim-on-the-Rhine, Germany, a society of Germany

No Drawing. Application June 24, 1929, Serial No. 373,467, and in Germany June 29, 1928
14 Claims. (Cl. 260—25)

4. A process for preparing compounds of the type of the lobelia alkaloids, which consists in treating a compound, which, in a ring system consisting of five carbon atoms and one nitrogen atom, contains in at least one of the α positions to the nitrogen atom a β-hydroxy-β-phenyl-ethyl group with an oxidizing agent commonly used for the oxidation of an alcohol to the corresponding ketone, until at least one hydroxyl group is converted into a carbonyl group.

13. As a new compound: the hydrochloride of α-phenacyl-α'-(β-hydroxy-β-phenyl-ethyl)-piperidine (nor-lobelidine).

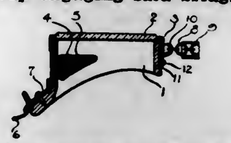
1,946,346

OPHTHALMIC MOUNTING

Nelson M. Baker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application September 21, 1929
Serial No. 394,356
6 Claims. (Cl. 88—43)

1. In a device of the character described, a pair of eyecups having a threaded end, a bridging member extending between the eyecups, a hook on each eyecup engaging said bridging member



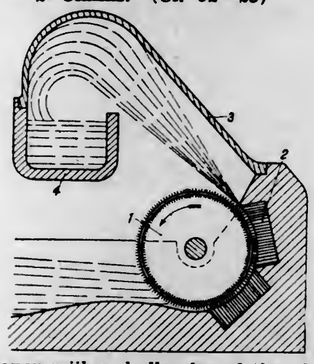
and cap members engaging the threaded ends of the eyecups between the hooks and cups to retain the bridging member in position.

1,946,347

HOLLANDER

Helmut Banning, Duren, Germany

Application October 2, 1930, Serial No. 486,036, and in Germany July 10, 1929
2 Claims. (Cl. 92—25)



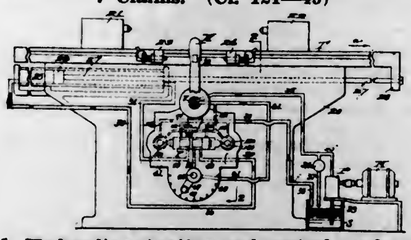
1. A paper mill or hollander of the character described, comprising a trough for the reception of material to be treated, a roller mounted in said trough for rotation toward the incoming material, a bed-plate forming a portion of the wall of the trough and extending upward at one side of the roller to a line above the center line of said roller, a return channel disposed at the opposite side of said roller, and a hood extending tangentially from the upper edge of the bed-plate to the outermost wall of said channel thereby to form an unobstructed tangential path for material leaving the roller and to direct said material into the channel.

1,946,348

HYDRAULIC DRIVING AND CONTROL MECHANISM FOR A RECIPROCATED MEMBER

Stanley W. Bath, Shrewsbury, Mass., assignor, by mesne assignments, to John Bath & Company, Worcester, Mass., a corporation of Massachusetts

Application May 17, 1932. Serial No. 611,861
7 Claims. (Cl. 121—45)



1. Hydraulic actuating and control mechanism for a machine tool having a reciprocating member, comprising a cylinder and piston, one of

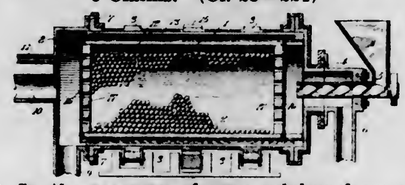
which is connected to move said member, means to supply fluid under pressure for said cylinder, connections from the opposite ends of said cylinder to said supply means and to the exhaust, a floating-valve reversing device in said connections, trip valves for said floating-valve, and means operated by said reciprocating member to selectively move said trip valves, said trip valves normally admitting fluid under pressure to both ends of said floating-valve device and said latter means moving a selected trip valve to relieve the pressure on one end of said floating-valve as said reciprocating member approaches its limit of travel, whereby said floating-valve is reversed, and said valve-moving means comprising a single actuator effective when moved in one direction to shift one trip valve and effective when moved in the other direction to shift the other trip valve, and lost motion mechanical connections between said actuator and said two trip valves.

1,946,349

PROCESS OF TREATING SULPHIDE ORES

Raymond G. Brown, Niagara Falls, N. Y., assignor, by mesne assignments, to Sulphide Corporation, a corporation of Delaware

Application May 23, 1929. Serial No. 365,397
6 Claims. (Cl. 23—224)



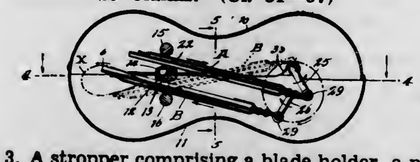
1. In the recovery of pure sulphur from materials containing iron sulphide and other metal values, the process which comprises reducing said ore to a fineness of minus 60 mesh, supplying the finely divided material to a chlorinating zone, chlorinating iron present to ferrous chlorid with dilute chlorinating gases, removing liberated sulphur as a vapor substantially free from heavy metal chlorids, then oxidizing the ferrous chlorid by means of a preheated oxidizing gas, supplying heat by means of preheat of said oxidizing gas in such amount that the oxidation is effected without permitting fusion of the ferrous chlorid or of any other heavy metal chlorids present, and leading chlorinating gases formed in the oxidizing reaction to the chlorinating zone to chlorinate additional iron sulphide containing material introduced thereto.

1,946,350

BLADE STROPPER

Anthony D. Boulanger and Frank P. Hubrich, Ridgefield Park, N. J., assignors, by direct and mesne assignments, to Edge-Bak Manufacturing Company, Inc., North Bergen, N. J., a corporation of New Jersey

Application May 29, 1930. Serial No. 457,364
20 Claims. (Cl. 51—57)



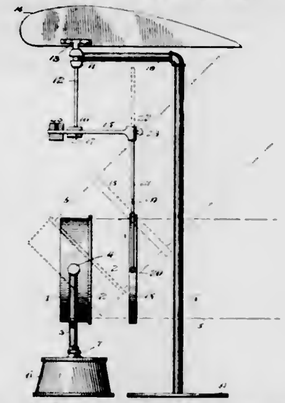
3. A stropper comprising a blade holder, a pair of strops, one on each side of said holder, guides for said strops, crank arms offset with respect to each other, means connecting said crank arms and strops and means to rotate said cranks in opposite directions to shift said strops on said guides along curved paths intersecting the plane of the blade near an edge thereof to stroke the said edge alternately on opposite sides.

1,946,351

WIND INDICATING AERONAUTICAL SEARCHLIGHT BEACON

Francis Boyle, Washington, D. C.

Application July 18, 1929. Serial No. 379,270
5 Claims. (Cl. 73—55)



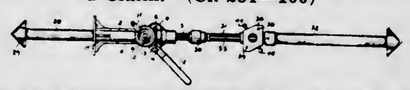
5. In a wind direction indicating beacon, the combination with a revoluble search light having a light source, a drum casing surrounding the light source and projecting a beam away from the axis of rotation of the search light, a rotatable yoke supporting the drum casing upon a vertical axis of rotation passing through the drum casing, and a pivotal connection between the drum casing and the yoke upon which the drum casing may be tilted on said yoke to project the beam from the light source at an angle above the horizontal, of as standard disposed laterally of the drum casing, a supporting bearing on the standard superposed relative to the drum casing and in vertical alinement with said axis of rotation, a wind vane, a screen, means operatively connecting the screen and vane together to move as a unit, said means rotatably supporting the screen on said bearing to be moved by the vane in a circular path around the drum casing to intercept the projected beam at a point in its sweep and including operative connections adapted to hold the screen tilted to correspond to the angle of tilt of the drum casing and means for adjusting the screen vertically to raise the screen into the tilted beam.

1,946,352

PUSHING AND PULLING IMPLEMENT

Guy A. Countryman, Ashland, Ohio

Application April 20, 1932. Serial No. 606,458
1 Claim. (Cl. 254—100)



In an automobile repair tool provided with an axially extended jack portion adapted to be used as an individual jack, an extension embodying a screw rod and a sleeve member slidably and non-rotatably interengaged with each other, and cou-

pling means for said rod and sleeve member provided with oppositely arranged locking ratchet members in engagement with the threads of said rod for quick adjustment of said sleeve with respect to said screw rod, said ratchet members having their ratchet levers arranged to lock said sleeve member against movement in opposite directions, to promote quick adjustment of said sleeve member in either direction by actuation of one or the other one of said ratchet levers.

1,946,353
FLOOD PACKER

Patrick H. Mack, Bradford, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a corporation of New Jersey

Application May 6, 1930. Serial No. 450,109
4 Claims. (Cl. 166—10)

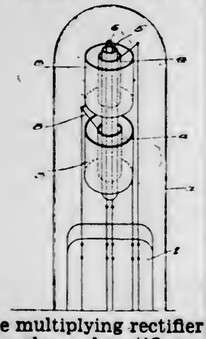


1. In a well packer, the combination with telescoping means including a tubular body and an anchor tubing, of a packing element on the body, expanding members therefor actuated by said telescoping means, an apertured cap member secured to one end of the anchor tubing, said cap member having spaced apart projections, a pressure ring on said projections, and a packing member between the ring and one of the expanding members, said pressure ring being movable by means of the fluid pressure in the well to displace the packing member.

1,946,354
RECTIFIER TUBE

Oran T. McIlvaine, Cleveland, Ohio, assignor to McIlvaine Patent Corporation, St. Charles, Ill., a corporation of Delaware

Application December 28, 1928
Serial No. 329,048
6 Claims. (Cl. 250—27.5)

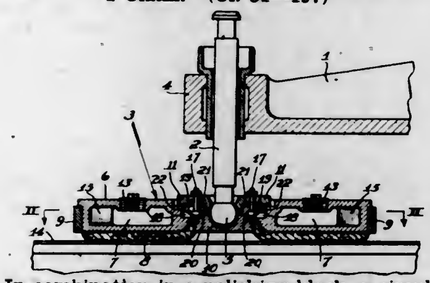


1. A voltage multiplying rectifier tube comprising rectifier anodes and rectifier cathodes, one of said anodes being electrically connected to the other cathode.

1,946,355
PLATE GLASS POLISHING BLOCK

Robert A. Miller, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

Application June 16, 1930. Serial No. 461,379
1 Claim. (Cl. 51—197)

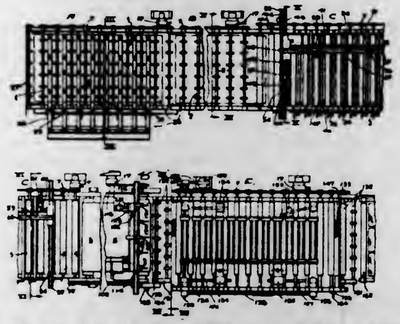


In combination in a polishing block, a circular disc having an opening through its central portion, a spindle having a ball head, a felt sheet fitting against one face of the disc and having its outer edges releasably secured to the periphery of the disc, the central portion of said sheet being cut away with the edges at such central portion turned up into the opening through the disc, a block fitting into the opening and engaging said turned up edges, said block having a recess on its upper side for receiving said head, a second block above said block through which said spindle extends, provided with a recess engaging the upper portion of said head, and releasable means for securing both blocks in fixed position with respect to said disc.

1,946,356
GLASS CUTTING APPARATUS

William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

Application April 7, 1933. Serial No. 664,926
16 Claims. (Cl. 49—48)

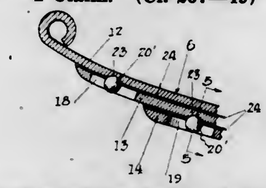


1. In combination in glass cutting apparatus, a runway comprising a plurality of sections in alignment, each provided with forwarding means for carrying the glass sheets to be sectioned or cut thereover, means whereby each forwarding means may be operated intermittently independent of the forwarding means of the other sections, a carriage movable transversely over one section provided with means for cross scoring the glass sheet on such section, means on such section for cracking the glass on the line of cross scoring, a carriage movable longitudinally of the section which follows the first section provided with means for longitudinally scoring the glass sheet on such section, and means on the section which follows said last section for cracking the glass sheet on the line of longitudinal scoring.

1,946,357
VEHICLE SPRING

Edward T. Petrak, Quincy, Wash.

Application August 16, 1932. Serial No. 629,055
1 Claim. (Cl. 267—49)

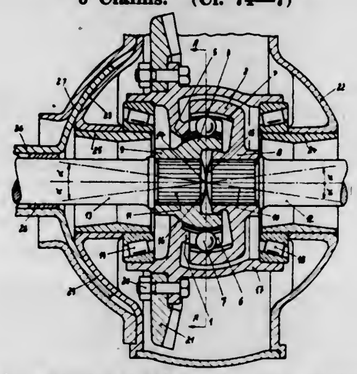


In a motor vehicle spring of the class described, a spring element embodying a plurality of leaves, retaining slots formed through certain of said leaves, and complementary recesses formed in the super-imposed leaves and at a point adjacent said slots, the walls of said slots being inclined, anti-friction balls positioned in each of said slots and engaging said recesses, the bottom of each of said slots being free to discharge any foreign matter passing into said slots.

1,946,358
ARTICULATED DIFFERENTIAL GEAR, PARTICULARLY FOR MOTOR VEHICLES

Ferdinand Porsche and Karl Rabe, Stuttgart, Germany

Application April 5, 1933, Serial No. 664,573, and in Germany April 8, 1932
6 Claims. (Cl. 74—7)



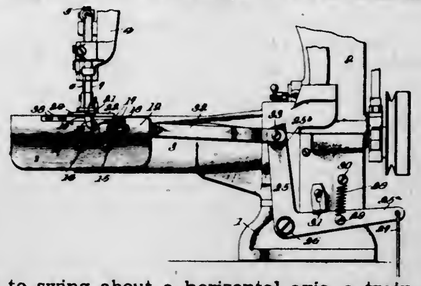
1. An articulated differential gear, particularly for motor vehicles with swinging half-axles, comprising a driving member having a cage and a plurality of balls associated therewith; and a ring on the inner end of each half axle, and each having engaging or contacting surfaces for the balls and the rings being provided on the sides of the cage and balls so that the latter are between the rings, the rings being formed as part spherical rings so that the surfaces contacting with the balls present spherical surfaces to permit swinging motions of the half axles relative to each other.

1,946,359
FABRIC GUIDING MEANS FOR SEWING MACHINES

Albert S. Riviere, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois

Application November 5, 1931. Serial No. 573,175
7 Claims. (Cl. 112—136)

1. A fabric guiding mechanism for forming circular seams including a fabric guiding member adapted to project across the line of feed and the stitching line and disposed between the fabric portions being joined, means for supporting said fabric guiding member whereby the same may be shifted in a direction at right angles to the line of feed for withdrawing the same from between the fabric portions to permit the completing of the circular seam, an elbow lever mount-

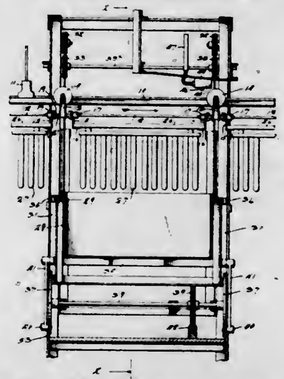


ed to swing about a horizontal axis, a train of devices positively connected to said elbow lever and to said fabric guiding member, a spring connected to the elbow lever for moving the same in one direction, manually controlled means connected to the elbow lever for moving the same in the opposite direction for withdrawing the guiding member, and a stop for limiting the movement of the elbow lever.

1,946,360
DIPPING MACHINE

Harry W. Roberts, Trenton, N. J.

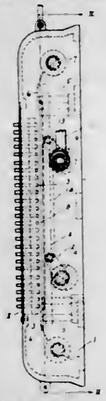
Application March 21, 1933. Serial No. 661,957
9 Claims. (Cl. 18—24)



8. A machine for forming rubber articles by dipping including an endless track, T-shaped in cross section, a constantly moving endless carrier having pairs of wheels, the wheels of each pair engaging the track at opposite sides thereof, the carrier being formed of sections joined to each other for vertical and transverse swinging movement, angular form board supports carried by the carrier and disposed between the longitudinally spaced pairs of wheels, form boards detachably mounted on said supports and having depending forms, a framework disposed in the length of said track and including vertical members, a tank, a support for the tank having sliding engagement with the vertical members, means for raising or lowering the tank including a shaft, cranks thereon operatively connected to the tank and its support, an electric motor for driving said shaft, a switch

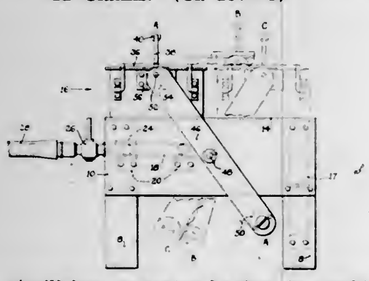
disposed in the path of movement of the wheels and actuated by the engagement with a wheel in advance of a form board support to close a circuit through the motor to thus cause the elevation and depression of the tank, and means for breaking the circuit through the motor when the tank has lowered below the forms.

1,946,361
TEST CHECKING APPARATUS
Jacob Earle Roberts, Point Marion, Pa.
Application August 10, 1932. Serial No. 628,165
6 Claims. (Cl. 101—102)



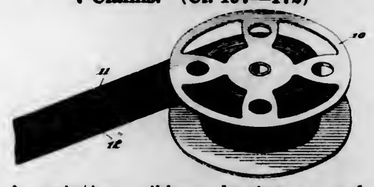
1. In test checking apparatus the combination of an inked member, a vertically movable platen mounted to one side of the inked member in co-operative relation thereto, a plurality of type elements on the other side of the inked member projectably mounted and operable selectively to project an increased distance toward said inked member, and keeping means associated with each type element for retaining the type elements individually in position projected toward said inked member.

1,946,362
STERILIZING APPARATUS
Andrew Alexander Robey, Lowell, Mass.
Application October 24, 1932. Serial No. 639,198
11 Claims. (Cl. 167—3)



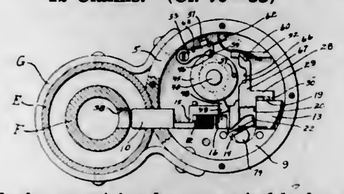
5. A sterilizing apparatus having, in combination, a heating unit, a sterilizing container, a support mounted to turn about a fixed pivot and having a pivotal connection with said container located above said pivot for the support, and a counterbalancing weight carried by said support below its axis and to one side of the line of centers passing through said pivotal connection and axis arranged upon loss of weight in the container to move the container from an operative position adjacent said heating unit vertically over and beyond said axis.

1,946,363
TYPEWRITER RIBBON AND THE LIKE
Herbert L. Shallcross, Philadelphia, Pa.
Application August 26, 1931. Serial No. 559,543
7 Claims. (Cl. 197—172)



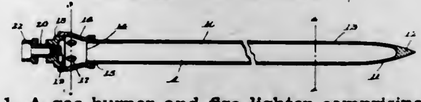
1. A printing ribbon having a relatively light ink deposit along one lengthwise strip thereof and a relatively heavy ink deposit of a pigment of the same color and having a high oil-absorption value along a strip adjacent thereto, said heavy ink deposit serving as a reservoir to maintain the moistness of the light ink deposit as said light deposit becomes exhausted by drying or use.

1,946,364
KEY-PERMUTATION LOCK
Bernard C. Smith, Long Island City, N. Y.
Application December 6, 1932. Serial No. 645,986
12 Claims. (Cl. 70—53)



1. A lock comprising key operated lock mechanism, permutation lock mechanism for preventing actuation of the key operated lock mechanism, trip means for automatically tripping the permutation lock mechanism by the key operated lock mechanism, and means actuated through tripping of the permutation lock mechanism to lock the key operated lock mechanism against movement.

1,946,365
GAS BURNER
Roy Soderlind, Ottawa, Ontario, Canada
Application September 17, 1931, Serial No. 563,371, and in Canada August 20, 1931
3 Claims. (Cl. 158—10)



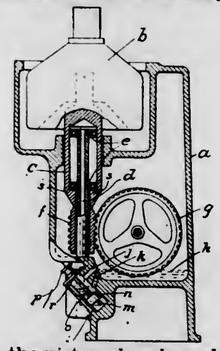
1. A gas burner and fire lighter comprising a tubular member, closed and pointed at one end and open at the opposite end, an elongated opening in said member adjacent the pointed end, a detachable head provided with air intake openings for the open end, a detachable reducing nozzle in said head co-operative with the air intake openings therein, and means for supplying gas to the reducing nozzle.

1,946,366
MEANS FOR LUBRICATION
Per Hilding Staaff, Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application March 4, 1930, Serial No. 433,011, and in Sweden March 22, 1929
1 Claim. (Cl. 308—170)

The combination with a stationary member, a rotatable member and bearings between said

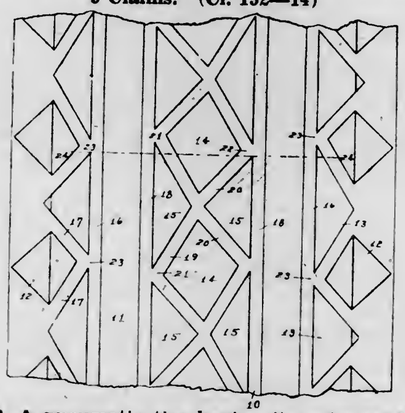
CARNEGIE LIBRARY OF ATLANTA

members, one of said members having a channel extending longitudinally therethrough and communicating with the space occupied by the bearings, of means providing an oil reservoir, a piston chamber whose longitudinal extension is at an angle to the horizontal and the lower end of which communicates with said channel, a piston in the piston chamber, there being two passages between the piston chamber and the oil reservoir at progressively greater distances from its lower end and opening into the oil reservoir, the lower passage opening into the oil reservoir above its bottom and through which oil is adapted to flow



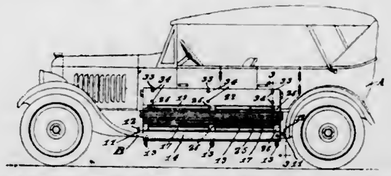
therefrom into the piston chamber when the piston is moved upward therein, the upper passage opening into the oil reservoir at a substantially higher level than the lower passage so as to enable it to open thereinto above the oil level therein, the piston being adapted to be moved downward beyond both openings and when so moved to force into said channel oil previously conveyed into the chamber below the piston through said lower opening and when moved upward to force through the upper of said passages into the oil reservoir oil conveyed into said chamber above the piston through the lower of said passages in the downward stroke of the piston.

1,946,367
AUTOMOBILE RUBBER TIRE TREAD CONSTRUCTION
Halver R. Straight, Adel, Iowa
Application May 11, 1932. Serial No. 610,598
9 Claims. (Cl. 152—14)



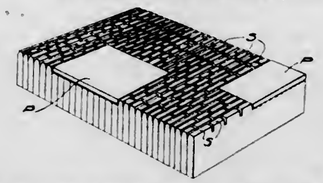
8. A pneumatic tire having its outer surface provided with a circumferential row of outwardly projecting tread blocks of substantially the same area and so arranged that no successive blocks are of the same shape.

1,946,368
FOLDABLE LUGGAGE CARRIER
Gershom E. Thomas, Germantown, Pa., assignor of one-half to James Christian, Germantown, Pa.
Application February 29, 1932. Serial No. 595,944
2 Claims. (Cl. 224—29)



1. A luggage carrier of the kind described comprising a pair of outer members substantially L-shaped in section and an intermediate flat member, each member having clamping means for embracing an automobile running board, a metallic strip joined with said members and disposed at the outer edge of the running board, a two-part foldable section hinged to said strip, means formed as parts of said foldable section to hold the same from extending outward beyond vertical alignment with each other on the unfolding of said sections to bring the same in upstanding relation to the strip, end guards hinged to the said foldable sections and having bumper tips for contact with a body of the automobile when the sections are upstanding relative to the strip, and a manually releasable spring tensioned latch carried by the intermediate flat member to hold the foldable sections against the outer members when said section is in folded condition.

1,946,369
TYPOGRAPHICAL MACHINE
Ransom H. Turner, Auburndale, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Application July 30, 1932. Serial No. 626,947
12 Claims. (Cl. 199—47)

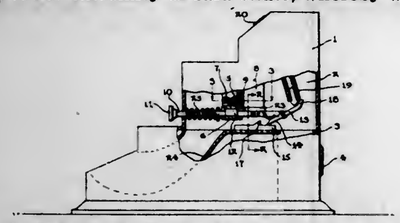


1. In a typographical machine, means for casting a type slug of predetermined length and to a predetermined height less than the height of a standard printing plate block, and means for casting raised portions at intervals along the length of said slug to a height equal to the height of a standard printing plate block.

1,946,370
VENDING MACHINE
Charles Walker, Knoxville, Tenn.
Application December 4, 1929
Serial No. 411,533
4 Claims. (Cl. 194—71)

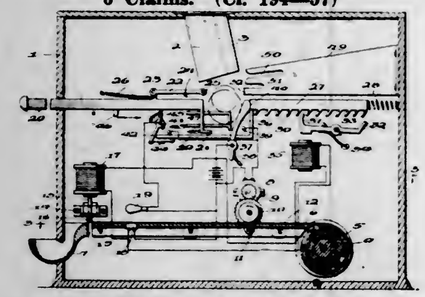
1. In a vending machine of the type described, coin controlled latch mechanism comprising a delivery rod, a lever pivoted transversely on said rod, one end of said lever forming a latch, a lug for engaging said latch, the other end of said lever forming a coin engaging arm, a coin chute terminating adjacent said delivery rod and provided with a transverse notch

through which said coin engaging arm is adapted to pass freely in the absence of a coin from said chute, a wing carried by said delivery rod which is normally adapted to support a coin in the lower extremity of said chute, whereby when



a selected coin is disposed in the lower extremity of said chute, it will obstruct the transverse notch therein, and upon the forward movement of said delivery rod, said coin will abut the coin engaging arm of said lever and rock the same on its pivot to release the latch.

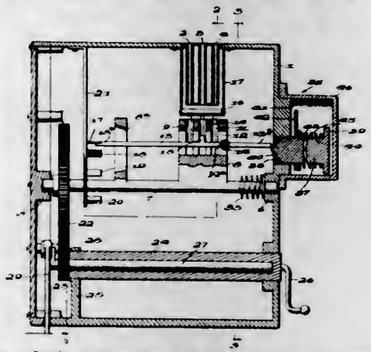
1,946,371
STAMP VENDING MACHINE
Charles Walker, Knoxville, Tenn.
Application June 7, 1932. Serial No. 615,871
6 Claims. (Cl. 194—57)



1. A stamp vending machine comprising a casing, a strip of stamps in said casing, electrically actuated means for feeding said strip forwardly in said casing, an electrically actuated knife for severing stamps from said strip, a coin chute in said casing, means for receiving coins from said chute and for retaining the same on edge, a reciprocable hand rod, means associated with said hand rod for controlling the inward stroke thereof through the medium of said coin, a rack bar mounted adjacent the inner end of said hand rod and adapted to be actuated by the inward stroke of said hand rod, an electric switch actuated by the movement of said rack bar for controlling the operation of said feed means, a second electric switch actuated by the movement of said hand rod for controlling the operation of said knife, and means for automatically releasing said switches after a predetermined number of stamps have been fed and severed.

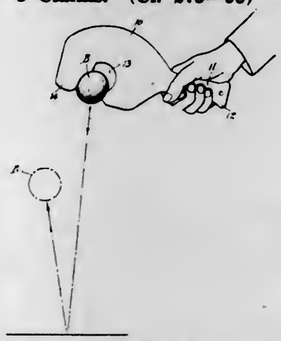
1,946,372
COMBINED FILLING STATION PUMP AND VENDING MACHINE
Charles Walker, Knoxville, Tenn.
Application August 4, 1932. Serial No. 627,437
9 Claims. (Cl. 194—66)

3. A vending machine comprising a housing, a rotary shaft mounted in said housing, means operatively connecting said shaft with a vending device, means for rotating said shaft, a second shaft carrying a rotary element mounted in said housing and operatively connected to said first named shaft whereby the rotation of the latter will cause the rotation of the former, a lever fulcrumed on said element, means for rocking said lever on its fulcrum varying degrees, and a plu-



rality of stop members arranged respectively in the paths of rotation of said lever when the latter is rocked varying degrees on its pivot, whereby the rotation of said element and in turn the operation of said vending device are controlled by the relative position of said lever.

1,946,373
BAT
Henry J. Walsh, Long Island City, N. Y.
Application May 10, 1933. Serial No. 670,377
3 Claims. (Cl. 273—95)

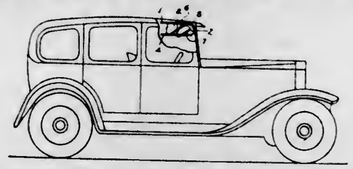


1. A ball bat consisting of a driving body with a handle projecting therefrom, said body having a notch opening through one edge thereof, for the purpose of picking up and releasably gripping a ball, so that the user by grasping the handle may throw or bounce the ball and also drive the ball with said body.

1,946,374
PARCEL RACK
Leicester Phillip Warder and Harry Pierpont Manley, Johannesburg, Union of South Africa
Application August 17, 1932, Serial No. 629,232, and in the Union of South Africa August 21, 1931
6 Claims. (Cl. 224—29)

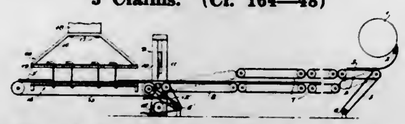
1. A parcel rack or carrier for vehicles and the like, including a movable parcel carrying element, a fixed part, a pair of arms at each side of said movable element for pivotally connecting it to the fixed part, spring means which operate

yieldingly to keep the said element in its collapsed and inoperative position against the fixed part, permit it to be moved away from said fixed part to receive the parcel, and cause it automatically to grip and retain the parcel between



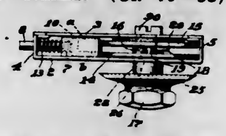
it and the fixed part when it is released, and a rod connecting corresponding arms of each pair, the collapsing springs being arranged on said rod so that said springs operate the movable element through the medium of the arms, as set forth.

1,946,375
VENEER MACHINE
Herman Wentjar, Olympia, Wash., assignor of one-half to R. F. Dotsch, Olympia, Wash.
Application September 15, 1931
Serial No. 562,941
5 Claims. (Cl. 164—48)



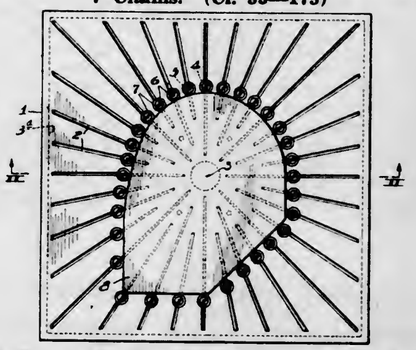
1. In a device of the character described, a cutter, a conveyor for advancing a sheet of material through the cutter, a frame disposed on the outlet side of the cutter, an indicating element adjustable along said frame and pivotally suspended thereon in the path of the advancing material, said element being displaceable upon contact with said material to visually indicate the moment for cutting the same and having a weighted end for returning said element to its normal suspended position, and means between said frame and element to limit the movement of the latter.

1,946,376
COMBINATION LOCK
Jasper Whiting, Dublin, N. H.
Application January 6, 1931. Serial No. 506,930
6 Claims. (Cl. 70—53)



1. A combination lock comprising a shaft, a disk fast on said shaft, a second disk mounted loosely on said shaft and close beside said first disk, a casing in which said shaft and disks are operatively supported, said shaft having a shoulder for positioning said loose disk, a friction member bearing yieldingly against said loose disk and holding it against said shoulder, said disks having cooperating lugs through which the second disk may be driven by revolving the first disk, the first mentioned disk being free from the action of said friction member, a knob fast on said shaft but having an adjustable connection therewith for permitting its angular position relatively to the shaft to be changed at will, and a locking bolt controlled by said disks.

1,946,377
FITTING FORM FOR GLASS PLATES
John Wynd, Tarentum, Pa., assignor to Duplate Corporation, a corporation of Delaware
Application October 10, 1931. Serial No. 568,161
7 Claims. (Cl. 33—175)



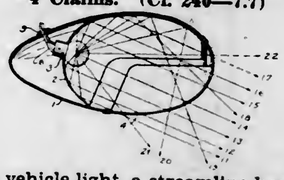
1. In combination, in a fitting form for glass sheets, a base plate provided with slots extending inwardly from the edges of the plate, blocks T shape in cross section mounted for sliding adjustment in the slots with the base portions thereof below the lower face of the plate, and stop members including screws threaded into the blocks with their shanks lying in said grooves and with their heads lying above the top of the plate.

1,946,378
GOLF BALL AND METHOD OF MAKING
Leonard A. Young, Detroit, Mich.
Application June 8, 1931. Serial No. 542,849
3 Claims. (Cl. 273—62)



1. A golf ball comprising a hollow spherical winding core of relatively dense unyielding rubber, a spherical center weight of relatively high specific gravity disposed centrally within said core, the internal diameter of said core being substantially greater than that of the center weight, the space between said core and center weight having a filler of spongy rubber for maintaining said weight centrally of said core, a body of elastic strands wound under tension on said core, and a casing on said winding.

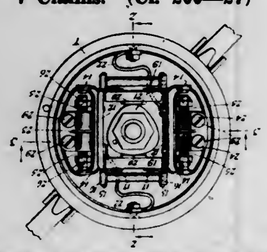
1,946,379
VEHICLE LIGHT
William A. Ziesing, Seattle, Wash.
Application May 7, 1931. Serial No. 535,697
4 Claims. (Cl. 240—7.7)



1. In a vehicle light, a streamline housing having its forward and downward portion cut away, a convex clear lens extending forwardly and upwardly over a major part of the cut-away portion of said housing, a convex translucent lens

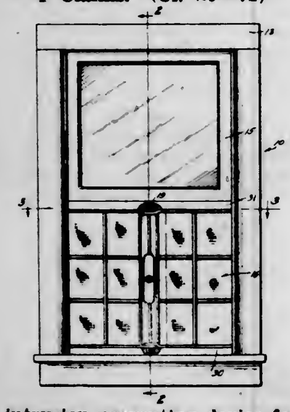
extending upwardly over the remaining part of said cut-away portion of said housing, the said lenses in combination with the said housing forming a closed body of continuous streamline form, a reflector within said housing having its forward and downward portion cut away, the forward and upward portion of said reflector being of ellipsoidal shape and the rearward portion of said reflector being of paraboloidal shape, and a light source mounted in said reflector, said rearward portion of said reflector and said light source having a common longitudinal axis, the said common axis being disposed at an acute angle with the longitudinal axis of said housing in such a manner that light rays reflected from the said rearward portion of said reflector are directed forwardly and downwardly from said housing.

1,946,380
TIMER
Leonard J. Armstrong, Mariners Harbor, Staten Island, N. Y.
Application January 15, 1932. Serial No. 586,887
7 Claims. (Cl. 200—27)



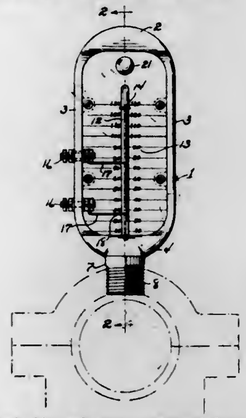
1. In a timer, a rectangular frame substantially rigid throughout, links pivoted to the respective ends of the frame for swingably supporting the same, one or more contacts at each side of the frame, stationary contacts positioned between the contacts carried by the frame for cooperating with the first mentioned contacts, and a substantially triangular shaped cam continually engaging the ends of the frame for reciprocating the frame longitudinally.

1,946,381
BURGLARPROOF SCREEN
Henry Oscar Bank, Evansville, Ind.
Application June 20, 1932. Serial No. 618,338
4 Claims. (Cl. 20—71)



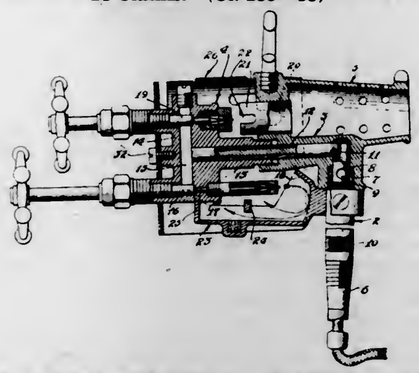
1. An intrusion preventing device for windows and the like, comprising a pair of frame members pivoted together, expandible pivot means for said frame members, and ferrule means secured in the window and cooperable with said expandible pivot means to receive the same and hold the same in position.

1,946,382
THERMOSTATIC ALARM FOR BEARINGS
Robert F. Bethea, College Park, Ga.
Application May 9, 1930. Serial No. 451,133
1 Claim. (Cl. 200—141)



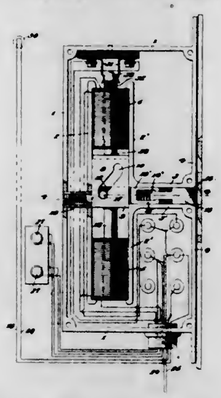
A thermostatic alarm comprising a metallic frame open at its center and provided at one end with an opening communicating with the central opening, spaced binding posts located at the side of the frame and within the central opening thereof, one of said posts being insulated from the frame, a tubular plug detachably connected with that end of the frame having an opening, said plug having a bore communicating with said opening and said bore being provided with a seat, a thermometer tube having at its end a bulb resting upon the seat of the bore of the plug, said tube extending into the central opening of the frame through the opening at the end thereof, and conductors having terminals embedded in the thermometer tube and connected with the respective binding posts.

1,946,383
QUICK GENERATING TORCH
William Blaskewitz and Clarence B. Overly, Detroit, Mich., assignors to Clayton & Lambert Manufacturing Company, Detroit, Mich., a corporation of Delaware
Application June 23, 1930. Serial No. 463,070
14 Claims. (Cl. 158—33)



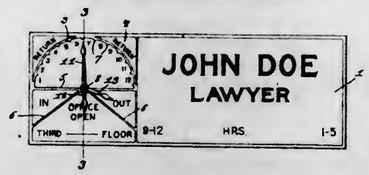
1. A liquid fuel burner, comprising a main burner nozzle and generator tube adapted to be heated thereby for vaporizing the main supply of liquid fuel, a burner head, a combined preheater tube and burner nozzle positioned beneath said main burner and burner head, and a blast deflector stationarily positioned adjacent the end of said preheater tube for directing a blast of flame rearwardly against said burner head.

1,946,384
ELECTRIC LOCK
Lucien R. Baril, River Edge, and Joseph Ulric Baril, Livingston, N. J.
Application February 16, 1933. Serial No. 657,128
7 Claims. (Cl. 70—50)



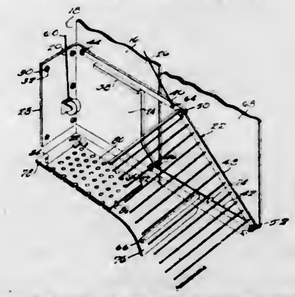
1. Electric locking and unlocking means of the character described, comprising a casing for the reception of said means, integral vertically disposed partitions formed within the casing, a pair of electro-magnets secured between the vertical partitions, reciprocating means disposed between and in contact with said partitions forming a core for each of said magnets, and latch bolts disposed between laterally extended partition operated by means connected to the said reciprocating means.

1,946,385
SIGN AND INDICATOR
Nathan B. Bryant, Ronceverte, W. Va.
Application June 7, 1933. Serial No. 674,754
1 Claim. (Cl. 116—133)



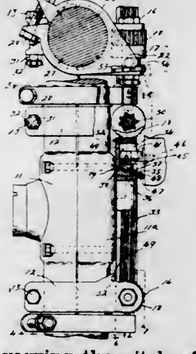
An indicator comprising a base plate having informative inscriptions thereon, a stud projecting from the base plate, a plurality of pointers rotatably fitted upon the stud to be set in selected relation to the inscriptions, washers fitted upon the stud between and in frictional engagement with the pointers, means to prevent rotation of the washers, a clamping nut mounted upon the extremity of the stud and adapted to be turned home against the outermost washer, the bore of the nut having longitudinally extending corrugations in its extremity, and a resilient finger projecting from the end of the stud and engaging said corrugations.

1,946,386
DRIER
Nathan H. Buschman, Bronx, N. Y.
Application June 10, 1930. Serial No. 460,157
12 Claims. (Cl. 312—113)



1. In apparatus of the character described, a casing, means supporting said casing and serving to attach said casing to the wall of a room, and a rack mounted within said casing and movably supported by said attaching means, whereby to relieve said casing from stress due to weight of said rack.

1,946,387
APPARATUS FOR VARYING THE PITCH OF AEROPLANE PROPELLER BLADES
Charles T. Chance and Murray K. Patten, Detroit, Mich., assignors, by mesne assignments, to Walter F. Stimpson, Detroit, Mich.
Application March 19, 1930, Serial No. 437,260
Renewed July 28, 1932
16 Claims. (Cl. 170—163)

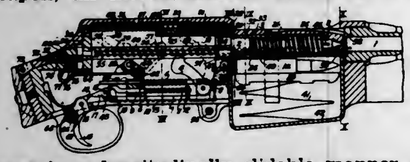


1. Means for varying the pitch of a propeller blade while in rotation, comprising a friction driven worm gear coaxial and normally revolving with such propeller, means anchored on a fixed member for imposing a direct braking action on the worm to limit its rotation relatively to the propeller, and means for utilizing such difference of rotative speed for the turning of said blade on its longitudinal axis.

1,946,388
RECOIL OPERATED SMALL ARM
Arnold Louis Chevallier, Llangarron, Ross, Hereford, England, assignor to Chevallier Self Loading Fire Arms, Limited, London, England
Application April 4, 1933, Serial No. 664,402, and in Great Britain April 21, 1932
9 Claims. (Cl. 42—4)

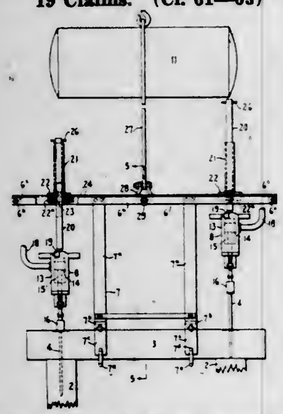
1. A small arm of the kind re-loaded by means of the recoil comprising a breech block, a brace

with an abutment co-operating with a corresponding abutment on the breech block, and with another abutment co-operating with a corresponding abutment on the fixed structure of the weapon, an inertia member connected to the



brace in a longitudinally slidable manner and guiding means for the inertia member in a rearward and upward direction, the abutment on the brace being disengaged from the corresponding abutment on the breech block in the rearward raised position of the inertia member.

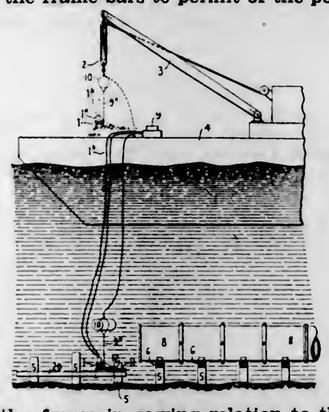
1,946,389
MECHANISM FOR BUILDING SUBMERGED STRUCTURES
Christian B. Christiansen, Brooklyn, N. Y., assignor to Merritt-Chapman and Scott Corporation, a corporation of Delaware
Application June 20, 1932. Serial No. 618,218
19 Claims. (Cl. 61—63)



1. In mechanism for fastening members to submerged parts, the combination of a portable frame, means thereon releasable at will for attaching a member temporarily to the frame, said frame being adapted to be lowered into the water to position the attached member in fastening relation to the submerged parts, a member fastening mechanism supported by the frame and operative on the positioning of the member, to fasten said member to said parts, and means for controlling the operation of said fastening mechanism.

1,946,390
PORTABLE SAWING MECHANISM AND METHOD OF USE
Christian B. Christiansen, Brooklyn, N. Y., assignor to Merritt-Chapman and Scott Corporation, a corporation of Delaware
Application July 16, 1932. Serial No. 622,912
10 Claims. (Cl. 143—68)

1. In mechanism for sawing off parts, the combination of a portable frame having at one end two frame bars adapted to extend respectively on opposite sides of the part to be sawed, a saw mounted on said frame for operation, a clamping jaw on the frame in position to engage one side of the part to be sawed, a second clamping jaw supported by and extending across the ends of the frame bars and adapted to be operated to clamp against the opposite side of the said part, said second jaw being mounted on a fixed pivot and movable bodily from across the ends of the frame bars to permit of the position-



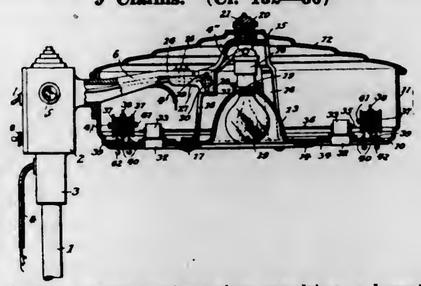
ing of the frame in sawing relation to the part to be sawed and being movable toward and away from the first mentioned jaw for stamping the part to be sawed between said two jaws, and controllable power means for operating the saw.

1,946,391
SPRING COVER
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application April 12, 1930. Serial No. 443,637
2 Claims. (Cl. 267—37)



1. A cover for a vehicle suspension spring comprising a single sheet of metal having two substantially aligned transversely extending opposed Y-slits therein and folded longitudinally along the ends of the arms of the Y-slits to form a top and partially overlapping depending sides, said top being bent transversely at the ends of the arms of the Y-slits to form a flat fold and the angular ends of the fold being turned down.

1,946,392
HAIR WAVING MACHINE
William Hamilton Cooper, Buffalo, N. Y.
Application October 24, 1932. Serial No. 639,344
9 Claims. (Cl. 132—36)



9. In a permanent waving machine, a housing having a top and bottom, means for supplying current to curlers including sockets exposed

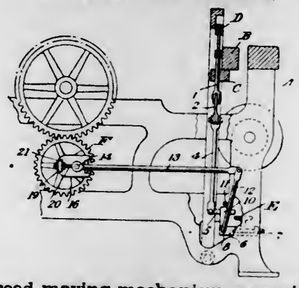
through the bottom of the housing, a bracket in said housing, a bulb carrying socket carried by said bracket and having its bulb receiving end exposed through the bottom, and a support for said housing having an arm extending into the housing and adjacent its outer end provided with side extensions secured to walls of the housing, and a cleat having one end secured to said bracket for vertical adjustment thereon and its other end connected with the arm for adjustment longitudinally thereof.

1,946,393
MULTIPLE FILAMENT ELECTRIC LAMP
Wilfred Dawson, Golders Green, London, England
Application December 14, 1932, Serial No. 647,235, and in Great Britain December 18, 1931
6 Claims. (Cl. 176—27)



1. A multiple filament electric lamp comprising a bulb portion having a leading-in wire common to all its filaments and a leading-in wire particular to each of the filaments, and a cap capable of detachment from said bulb portion and having a contact arm adapted at all times when the cap and bulb are in assembled relation to make contact with said common leading-in wire and a contact arm adapted upon relative movement between said bulb and said cap to make selective contact with each of said other leading-in wires, and means for limiting the relative movement between said bulb and said cap.

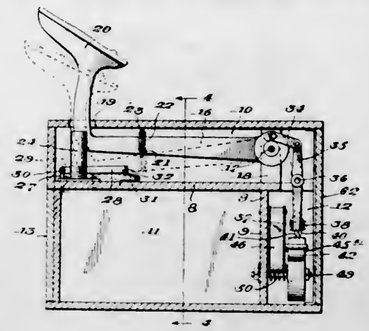
1,946,394
REED MOVING MECHANISM
George J. Dupuis, Attleboro, Mass.
Application July 30, 1932. Serial No. 626,740
3 Claims. (Cl. 139—191)



1. A reed moving mechanism comprising arms secured to and depending from the reed frame of a loom, means for guiding said arms, links fulcrumed intermediate their ends and pivotally secured to said arms, a link pivotally secured to the levers, a rod pivotally secured to the link, means for adjustably receiving said rod, means for securing the rod in adjusted positions, means for rocking the adjustable securing means for the rod and including adjustable means and means for detachably securing the last mentioned adjustable means to a rotary driving means.

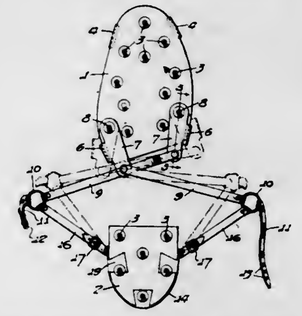
1,946,395
SHOE-SHINE RECORDER
Edward D. Fagelson, Atlanta, Ga.
Application June 23, 1932. Serial No. 618,989
4 Claims. (Cl. 234—1)

1. A shoe-shine recorder comprising a casing, a lever pivotally mounted at one end and provided at its opposite end with a foot-pedal disposed outside of the casing, means for supporting said lever in a neutral position; a plurality of marker carrying arms disposed in relation to a traveling record receiving member to make a record by each marker on said member, a piv-



otally mounted lever connected at one end with the pedal lever and having its free end lying between the plurality of marker arms and operable upon displacement of the pedal lever from neutral position to move one of the markers to change the path of its record demarcation on the record receiving member.

1,946,396
ATTACHMENT FOR SHOES FOR GOLF AND OTHER SPORTS
Edward D. Fagelson, Atlanta, Ga.
Application July 5, 1933. Serial No. 679,132
4 Claims. (Cl. 36—7.6)

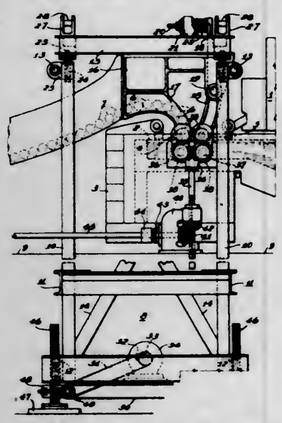


1. An attachment for golf and other shoes, comprising a plate for attachment to the sole of a shoe, levers pivotally connected to the sole-plate and provided with flanges disposed to engage oppositely disposed edges of a shoe sole when the levers are rotated, a heel-plate for attachment to the heel of a shoe, flexible straps attached at one end to free ends of said levers, other flexible straps attached at one end to the heel-plate, the adjacent ends of the sole-plate straps being connected to adjacent ends of the heel-plate straps, and means connecting the adjacent ends of one set of straps with adjacent ends of the other set, to rotate the levers to bring their flanges into gripping engagement with opposite disposed side edges of a shoe-sole to which attached and simultaneously secure the heel-plate to the heel of the shoe.

1,946,397
PLATE GLASS ROLLING APPARATUS

John H. Fox, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

Application October 19, 1932. Serial No. 638,494
10 Claims. (Cl. 49—33)



1. In combination in glass rolling apparatus including a draw pot for carrying a bath of molten glass, and a pair of horizontal sizing rolls adapted to engage the glass in the bath, a vertical framework having members at the sides of the pot extending from a point below the pot to a point thereabove with transverse connecting means, depending supporting members carried by the framework in which the rolls are journalled, reduction gearing carried by the framework at the side of the pot and connected to the rolls, means for driving the reduction gearing permitting vertical movement of the reduction gearing and rolls relative to the drive means, and means for adjusting the framework bodily in a vertical direction.

1,946,398
METHOD OF ROASTING COFFEE

Joseph F. Gilbreath, Louisville, Ky.

No Drawing. Application April 17, 1931
Serial No. 531,014
4 Claims. (Cl. 99—11)

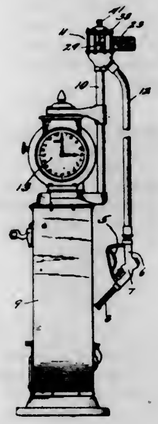
2. The herein described method of roasting coffee, which consists in adding a mixture of an organic acid and water to the freshly roasted coffee before drawing the same from the roasting oven and while the same is hot, the proportion of acid employed corresponding to the percentage proportion of acid in the particular grade of coffee being roasted.

1,946,399
AIR RELEASE MECHANISM FOR DISPENSING APPARATUS

Clement P. Griffith, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind., a corporation of Indiana

Application March 19, 1930. Serial No. 436,933
14 Claims. (Cl. 221—95)

1. In a sight gauge for liquid dispensing apparatus, the combination with an enclosure having an inlet and an outlet and a transparent wall, means in said enclosure and visible through the transparent wall thereof and located in position to be actuated by fluid flow between the inlet and outlet to provide a visual flow indication, and means associated with said outlet for

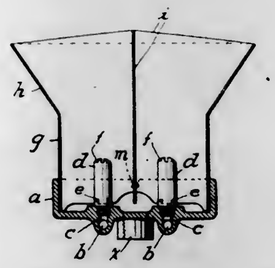


ejecting through said outlet accumulated gases in the upper portion of said enclosure.

1,946,400
DEVICE FOR CLEANING TEAT CUPS

Cyrus Howard Hapgood, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey

Application October 29, 1931. Serial No. 571,753
3 Claims. (Cl. 141—1)



1. In a device for cleaning teat cups, a container comprising a base provided with distributing channels, an enclosing wall and radial partitions dividing the container into compartments, jet nozzles mounted on the base and in communication with said channels and positioned within the respective compartments, the container wall with its partitions being removable, and means to so position the container wall and its partitions relative to the nozzles that each nozzle will occupy a median position between the radial walls of its compartment.

1,946,401
SHIRT

John Errol Hay, Fulham, London, England

Application December 22, 1932, Serial No. 648,482, and in Great Britain November 29, 1932
1 Claim. (Cl. 2—118)

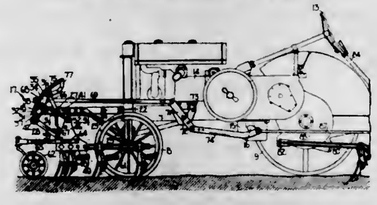


A shirt, a slit at each side of the bosom of the shirt at the level of the stud hole and spaced away from the edges of the bosom of the shirt, the edges of the slit lying close and flat together.

1,946,402
CULTIVATOR

Theodore W. Johnson, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application August 3, 1931, Serial No. 554,748
Renewed December 13, 1932
35 Claims. (Cl. 97—47)



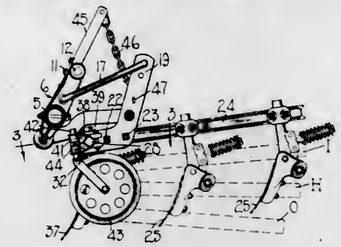
1. An agricultural implement comprising the combination with a tractor including a front axle, of an attachment comprising a draft member rigidly connected with said front axle, a plurality of cultivator rigs mounted to swing vertically relatively to said draft member, means adjustably connecting said cultivator rigs with said draft member whereby said rigs may be adjusted laterally along said draft member to vary the spacing between the rigs, and a castering gauge wheel for each of said rigs.

1,946,403
CULTIVATOR

Theodore W. Johnson, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application June 17, 1932. Serial No. 617,710
21 Claims. (Cl. 97—47)

1. An agricultural implement comprising a transversely extending draft bar, an arm fixed to said bar, a cultivator rig, means for raising and lowering said rig, and means separate from said first named means and comprising a pair of nonparallel links, both having free pivotal connection with said arm and the rig for supporting said rig from said draft bar whereby the rear shovel of the rig will operate deeper than the front shovel thereof when in operating position and will be raised higher than said front shovel when the rig is raised to inoperative position.

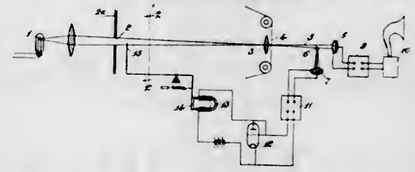


15. A cultivator rig comprising a supporting member, a transversely extending arm carried by and extending outwardly from opposite sides of said member, an earth working tool supported one one end of said arm, and a gauge wheel supported at the opposite end of said arm.

1,946,404
REPRODUCTION OF SOUND FROM SOUND FILM RECORDS

Heinrich Könemann, Munster, Germany

Application November 27, 1931, Serial No. 577,589, and in Germany December 4, 1930
6 Claims. (Cl. 179—100.3)

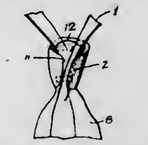


1. Method of regulating the amplitude range in the reproduction of sound record films, comprising directing a single beam of light upon the record film, employing one portion of the beam after incidence upon the film for reproducing sound, and varying the quantity of light in said one portion inversely according to the light intensity in another portion of the beam after incidence of the latter upon the film.

1,946,405
NECKTIE

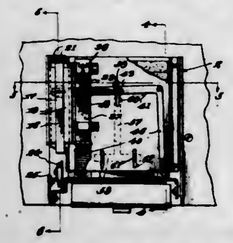
Thomas L. Lang, Baltimore, Md.

Application October 6, 1932. Serial No. 636,596
3 Claims. (Cl. 2—150)



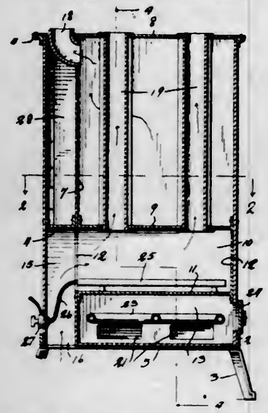
1. In a necktie construction, a knot forming means comprising a relatively rigid plate having a pair of elongated substantially horizontal slots therein, a fixed tie member, means for securing the member to the plate through one of the slots, a slidable tie member, and means for securing an end of the slidable tie member to the plate through the other of the slots.

1,946,406
AUTOMATIC CIGARETTE LIGHTER AND EJECTOR
William A. Lloyd, Baltimore, Md.
Application November 11, 1931
Serial No. 574,422
8 Claims. (Cl. 312—86)



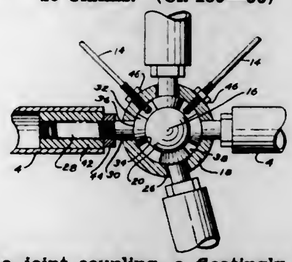
2. A combination cigarette lighting and ejecting means comprising a container, a switch having an actuating member movable into and out of position to close the switch, a lighting coil substantially aligned with the bottom of said container, means electrically connecting the switch with said coil, means operated by the actuating member of said switch and prior to ejection of a cigarette for forcing a cigarette into engagement with said lighting means when the switch is closed, and other means controlled by the last mentioned means for ejecting a lighted cigarette from the container after the switch has been opened.

1,946,407
HEATER
Joseph H. Long, Cleveland, Ohio
Application March 15, 1933. Serial No. 660,945
7 Claims. (Cl. 126—90)



1. A heater including an outer shell open at its top and bottom, an inner casing of less cross sectional area than the outer shell and having side walls, a bottom wall and a rear wall, the side walls and rear wall being conterminous with the walls of the outer shell, a top wall extending over the upper end of the outer shell, an air chamber open at one end and disposed within the inner casing attached to the rear wall thereof but opening therethrough, air tubes opening at their lower ends through the top wall of the air chamber and at their upper ends extending through the top wall of the outer shell, an approximately inverted U-shaped flue plate extending between the rear wall of the inner casing and the rear wall of the outer shell, and constituting an air inlet duct to the air chamber, and heating means disposed below the air chamber.

1,946,408
FUSELAGE JOINT
Flavius E. Loudy, Akron, Ohio
Application August 21, 1930. Serial No. 476,911
10 Claims. (Cl. 189—36)



1. In a joint coupling, a floatingly supported spherical shell member adapted for universal movement having a plurality of openings, a ball in said shell member having a diameter less than inside diameter of said shell, a member extending into each of said openings, and a head member on the inner end of each said last mentioned members having an inner concaved face for engagement with said ball and an outer convexed face for engagement with the inner side of the shell member.

1,946,409
BEARING OF AXLES AND SHAFTS
John McLintock, Dennistoun, Glasgow, Scotland
Application September 9, 1930, Serial No. 480,799½, and in Great Britain September 9, 1929
5 Claims. (Cl. 308—40)

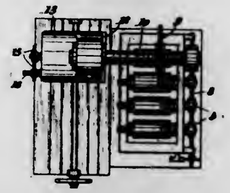


1. An axle bearing comprising a collar fast on the axle, the periphery of the collar being concave in cross section and an upper half bearing of substantially semi-circular formation and having a convex bearing face, the radius of the concavity of the periphery of the collar being slightly greater than that of the convexity of the upper half bearing.

1,946,410
PROCESS OF AND MEANS FOR MAKING ROTARY PISTONS WITH STEPPED WINDINGS FOR USE IN CONNECTION WITH ROTARY PISTON ENGINES
Emanuel Mocigemba, Essen, Germany, assignor to Aktiengesellschaft fur Montanbedarf, Vaduz, Liechtenstein, a company of Liechtenstein
Application March 6, 1930, Serial No. 433,757, and in Austria March 8, 1929
6 Claims. (Cl. 90—15)

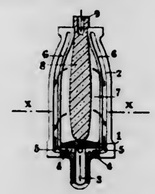
1. Process of making rotary pistons with stepped windings for use in connection with rotary piston engines which consists in cutting in successive steps a cylindric member, the inner diameter of which corresponds to the diameter of the body portion of the piston member, at a right

angle with respect to the axis of the cylindric member and down to the inner wall of the latter, the slots thus formed being displaced with re-



spect to one another on the periphery as well as in the axial direction to produce a continuous member forming the piston windings.

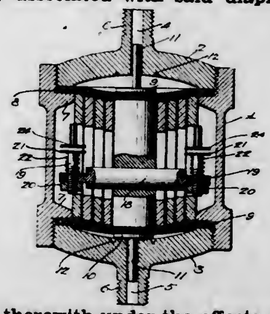
1,946,411
APPARATUS FOR BLOWING BOTTLES AND OTHER SIMILAR HOLLOW BODIES MADE OF GLASS
Emile Roirant, Paris, France, assignor to Société Anonyme d'Etudes et de Constructions d'Appareils Mecaniques pour la Verrerie, Paris, France
Application November 17, 1928, Serial No. 320,185, and in Germany November 18, 1927
3 Claims. (Cl. 49—68)



2. A finishing mould for the manufacture of hollow glass articles which comprises at least two solid chills having continuous inner walls adapted to be assembled together in close fitting contact with each other so as to form a complete mould having an apperture in communication with the atmosphere adapted to surround the neck of the glass blank, the contacting faces of said chills being provided with registering shallow grooves running parallelly with the walls so as to form longitudinal channels in said walls when the mould is assembled, said chills being further provided in their bottom part with a circular groove communicating with said channels, and means for connecting said circular groove with a source of vacuum.

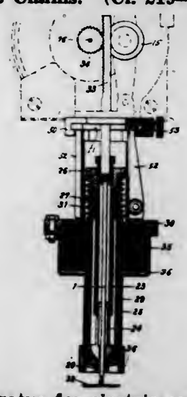
1,946,412
FLUID PRESSURE ACTUATED ALARM DEVICE
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 13, 1933. Serial No. 666,042
3 Claims. (Cl. 200—83)

1. In a fluid-pressure-controlled electric switch device the combination with oppositely arranged diaphragms, of means for exposing the outer faces of said diaphragms to relatively variable pressures, and switch mechanism including a plurality of relatively movable telescoping elements confined between and embracing substantially the entire inner surfaces of said diaphragms and operatively associated with said diaphragm for



movement therewith under the effects of relative variations in said pressures.

1,946,413
ELECTRIC WELDING WITH MAGNETIC STABILIZATION
Robert Sarazin, Neuilly-sur-Seine, France
Application December 17, 1930, Serial No. 503,075, and in France December 24, 1929
2 Claims. (Cl. 219—8)



1. An apparatus for electric arc welding comprising a magnetizing coil, a first magnetic tube surrounded by the said coil, a second tube contained in the first tube, a third tube contained in the second tube, a graphite pencil in the interior of the third tube, split elements at the lower end of the third tube, said elements exerting an elastic tightening on the graphite pencil, a guide member closing at the base the second and the third tube and traversed by the graphite pencil, a push member on the upper part of the graphite pencil, a rack integral with the said push member, a pinion engaging with the said rack, a shaft carrying the said pinion, a regulating device controlling the said shaft and subjected to the influence of the electric characteristics of the arc.

1,946,414
PROCESS FOR SEPARATING NITROGLYCERINE FROM RESIDUAL ACIDS
Arnold Schmid, Vienna, Austria; Hans Schmid and Irma Schmid, administrators of Arnold Schmid, deceased, assignors to Karl Schmid, Mannheim, Germany
Application January 25, 1928, Serial No. 249,474, and in Germany February 5, 1927
1 Claim. (Cl. 260—144)

A process for separating nitroglycerine from residual acid in emulsions of the same which con-

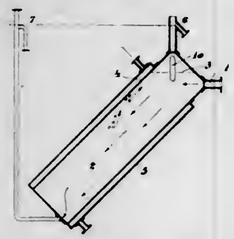
sists in continuously passing the emulsion in a horizontal direction through a vessel provided with inclined plates dividing the body of the liquid into a series of longitudinal superposed layers communicating with each other at each end, whereby the nitroglycerine as it separates may pass upwards along the under surfaces of the division plates toward the top of the body of liquid where it is continuously drawn off, while the separated acid flows down the plates toward the lower portion of the vessel where it is discharged continuously.

1,946,415

PROCESS FOR THE CONTINUOUS SEPARATION OF NITROGLYCERINE AND RESIDUARY ACID

Arnold Schmid, Burbach, Germany; Hans Schmid and Irma Schmid, administrators of said Arnold Schmid, deceased, assignors to Karl Schmid, Mannheim, Germany

Application July 18, 1929, Serial No. 379,293, and in Germany July 30, 1928
1 Claim. (Cl. 260—144)



Process of separating an emulsion of nitroglycerine and residuary acid which consists in continuously introducing into the upper portion of a quiescent inclined column of liquid the emulsion at a temperature higher than that prevailing in the column of liquid, whereby the emulsion cools during descent causing the nitroglycerine to separate into drops which ascend vertically and collect in the upper portion of the column and the separated acid descends to the lower portion of the column, and continuously drawing off the separated products.

1,946,416

GLAZE CUTTER

Michael I. Seiler, Millersburg, Pa., assignor to Keystone Reamer & Tool Co., Millersburg, Pa., a corporation of Pennsylvania

Application December 2, 1931. Serial No. 578,601
2 Claims. (Cl. 29—78)



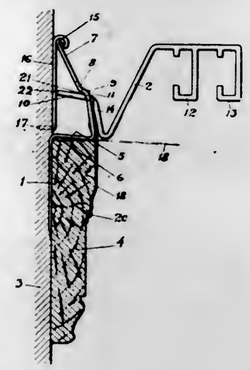
1. A glaze cutting tool for valve seats and the like comprising a body presenting a frusto-conical working surface having a plurality of radial, V-shaped flutes dividing the working surface into a plurality of segmental lands with their leading faces normal to the axis of rotation; and a multiplicity of file teeth having cutting edges formed on the lands and disposed at an acute angle to the flutes, said cutting edges following the contour of said working surface so as to contact with the work between the flutes.

1,946,417

FASTENING MEANS FOR CURTAIN RODS, PORTIÈRE RODS, OR THE LIKE

Hans Peter Birger Simonsson, Gottenborg, Sweden

Application October 1, 1932, Serial No. 635,824, and in Sweden January 21, 1931
6 Claims. (Cl. 156—22)



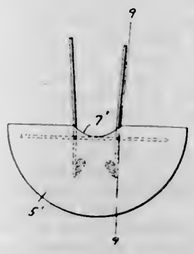
1. Fastening means for curtain rods and the like comprising two detachably connected members, one of said members having a lower part adapted to be inserted between a wall and a list and having an upper part provided with an aperture, the other member having one end inserted in said aperture and engaged with the wall, means on the inserted end of the second member exerting pressure on the upper part of the first member after the two members have been brought to operative position, and supporting means at the opposite end of the second member.

1,946,418

SUPPORT FOR CONCRETE REENFORCING STEEL

Edward E. Welch, Sacramento, Calif.

Application October 3, 1932. Serial No. 636,064
1 Claim. (Cl. 72—122)



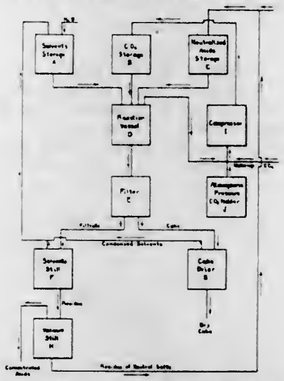
A support for spacing concrete reenforcing steel from concrete forms, comprising a hemispherical shaped body having its curved surface for contact with a concrete form and means on the body whereby the said body can be secured to a concrete reenforcing steel so that the reenforcing steel will lie diametrically across the flat side of the body.

1,946,419

PROCESS FOR RECOVERY OF ORGANIC ACIDS

John C. Woodruff and Grover Bloomfield, Terre Haute, Ind., and Ignace J. Krchma, Baltimore, Md., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

Application April 27, 1931. Serial No. 533,018
20 Claims. (Cl. 260—118)



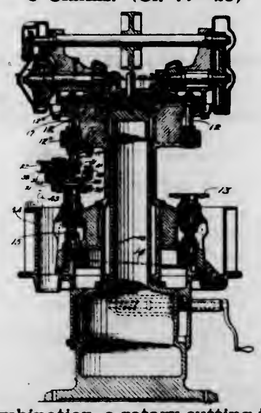
1. In a process for obtaining a carboxylic organic acid from its corresponding salt of an alkali-forming metal, the step which comprises subjecting said salt to the action of carbon dioxide gas in the presence of a homogeneous aqueous organic liquid medium in which said salt is at least partially soluble.

1,946,420

INDEXED CAM-CONTROLLED CLAMPING JIG

John Wilson Brown, Jr., Philadelphia, Pa.

Application November 8, 1930. Serial No. 494,434
3 Claims. (Cl. 77—23)



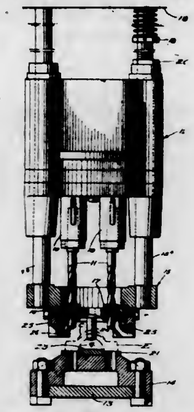
1. In combination, a rotary cutting tool, a work table movable toward and away from the cutting tool, a jig carried by said table including a rotor and a stator, a plurality of work-holding chucks carried by the rotor and arranged upon the same circumference, each of said chucks including a work clamping element, means for periodically rotating the rotor to successively align said work-holding chucks with the cutting tool, cam means controlling operation of the chucks to lock each chuck in its work-gripping position as it aligns with said cutting tool, means for bodily rotating the cutting tool and the work table about a common axis, and means operated by rotation of the cutting tool and work table about said axis for moving the work table toward and away from the cutting tool.

1,946,421

POSITIONING MEANS FOR DRILLING MACHINES

John Wilson Brown, Jr., Philadelphia, Pa.

Application August 28, 1931. Serial No. 560,011
4 Claims. (Cl. 77—63)



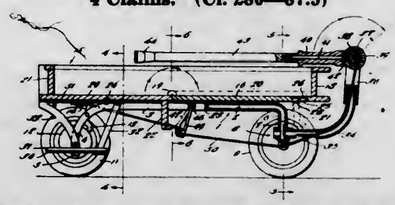
1. The combination with a rotary cutting mechanism including a rotary cutting implement, a work table and means for shifting one of said cutting implements and work table to bring work carried by the table into the sphere of action of the cutting implement, of a yieldable guide for the cutting implement yielding in the direction of such movement, means associated with the work table to engage work placed thereon and approximately transversely align the same with the cutting implement, means upon said yieldable element to engage work placed upon the work table and approximately longitudinally align the work with the cutting implement, and means on said yieldable member engaging work upon the work table during approach of the work table and cutting implement for accurately positioning the work both longitudinally and transversely for engagement by the cutting implement.

1,946,422

COASTER WAGON

Amos E. Carter, Omaha, Nebr.

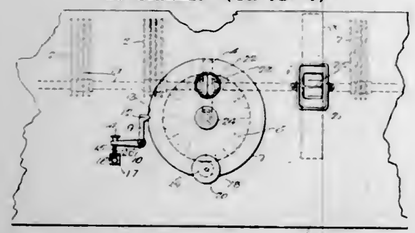
Application June 9, 1933. Serial No. 675,122
4 Claims. (Cl. 280—87.5)



3. A wagon comprising a frame including a stem portion and further including angular arms on one end of said stem portion, said arms comprising downturned portions terminating in inwardly directed free end portions, steps mounted on the inwardly turned free end portions of the arms, wheels mounted on the downturned por-

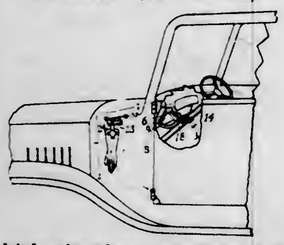
tions of the arms, the stem including a downturned end portion, an axle mounted for swinging movement on the lower end of the stem, wheels journaled on the axle, a body mounted on the frame, said body including a fixed bottom section, side boards rising from the fixed bottom section and projecting rearwardly therebeyond, a foldable bottom section hingedly mounted at the rear end of the fixed bottom section and operable between the side boards, and plates on the rearwardly projecting portions of the side boards for supporting the foldable bottom section in operative position, said plates constituting knee rests for an operator when the foldable bottom section is in inoperative position.

1,946,423
VERNIER TUNING MECHANISM
David P. Earnshaw, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 23, 1930
Serial No. 483,897
10 Claims. (Cl. 74—7)



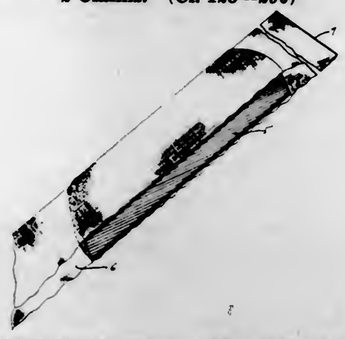
1. A mechanism for adjusting the position of a rotatable member, comprising crank means arranged for successive rotation to effect different positions of said member for different revolutions, whereby a coarse position adjustment of said member may be obtained, vernier means for obtaining a fine position adjustment of said member, and indicating means for each of said adjusting means.

1,946,424
DIRECTION INDICATOR
John G. Jackson, Cleveland, N. Y.
Application July 20, 1933. Serial No. 681,358
2 Claims. (Cl. 116—51)



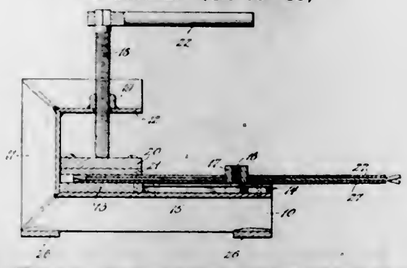
1. A vehicle signal comprising a substantially V-shaped supporting member having an arcuate member connecting the legs thereof mounted upon the dashboard of an automobile, a shaft extending through the supporting member at its apex and through the dashboard to a point beneath the cowl of the automobile, a swinging operating handle mounted at one end upon the outer end of the shaft and movable between the legs of the supporting member, spring pressed means for frictionally securing the handle in the position in which it is placed, a crank mounted upon the opposite end of the shaft and upon the side of the shaft opposite to that on which is the operating handle, a link connected at one end to the crank and extending to a point outside of the automobile body, and a semaphore having a relatively broad signalling portion and a narrower supporting portion, the narrower portion being pivoted at a median point to a standard mounted upon the automobile body, and being connected at its extremity with the outer end of the link.

1,946,425
SANITARY NAPKIN
Robert W. Johnson, New Brunswick, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey
Application July 19, 1930. Serial No. 469,165
2 Claims. (Cl. 128—290)



1. A liner for sanitary napkins of the disposable type, comprising a bat of soft fibrous absorbent material of substantially rectangular form having arcuate terminals inwardly of the side margins, whereby the side margins are defined as offsettable wings, substantially as and for the purpose described.

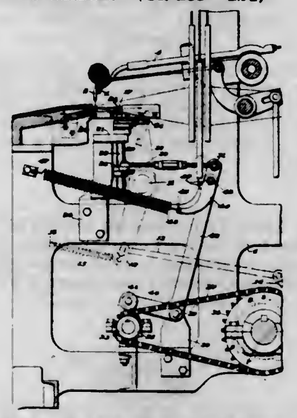
1,946,426
METHOD AND APPARATUS FOR SETTING SAWS
Albert H. Kennedy, Rockport, Ind.
Application November 11, 1933
Serial No. 697,663
4 Claims. (Cl. 76—58)



1. That method of alining the set teeth of circular saws which consists in placing disks on opposite sides of the saw each having a thickness equal to the required offset of the teeth and its edge lying within the bases of the teeth, and confining the teeth between clamping members which engage said disks, whereby the cutting edges of all of the teeth are brought into the planes of said disks.

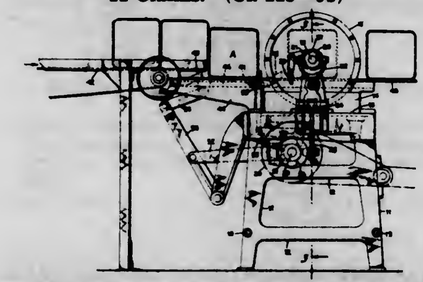
3. A device for alining the offset teeth of circular saws which comprises, in combination, a holder for the saw; a pair of disks engaging opposite sides of the saw and each having a thickness equal to the required offset of the teeth; and a pair of machined clamping members adapted to engage the opposite sides of the teeth and both of said disks so as to bring the teeth into the planes of the disks.

1,946,427
TUFT PILE FABRIC LOOM
John O. Lambo, Amsterdam, N. Y., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts
Application June 16, 1932. Serial No. 617,581
6 Claims. (Cl. 139—124)



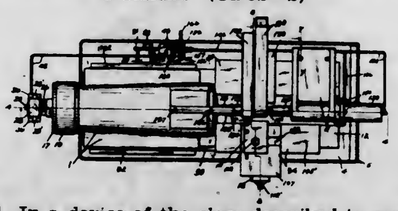
1. In a loom for weaving pile fabrics, the combination of a needle for introducing weft threads into the shed, a selvage shuttle for interlooping a selvage cord or thread with the needle thread, a selvage shuttle cam, an arm mounted for oscillating movement by the cam, a safety device comprising a lever pivotally mounted on the arm, a link connecting one part of said lever with the selvage shuttle, and a spring acting through another part of said lever to maintain said arm in operative engagement with the selvage shuttle cam and yieldable when the selvage shuttle is obstructed in its movements to permit said lever to yield.

1,946,428
FLUXING APPARATUS
Harrison O. Preston and Frederick J. Strowbridge, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application October 7, 1930. Serial No. 486,881
11 Claims. (Cl. 113—95)



1. In combination with a main conveyor, spaced flux applying means, a track extending between said applying means and under one end of said conveyor whereby can bodies are fed from said conveyor to said track, means for moving successive can bodies along said track between the flux applying means, means for actuating the flux applying means into gripping engagement with each successive can body, and means for withdrawing the can moving means while the can bodies are engaged by the flux applying means.

1,946,429
AUTOMATIC LATHE
Edwin R. Smith and Albert Shinkez, Seneca Falls, N. Y., assignors to Seneca Falls Machine Company, Seneca Falls, N. Y., a corporation of Massachusetts
Application January 28, 1931. Serial No. 511,798
5 Claims. (Cl. 82—2)



1. In a device of the class described in combination, a mandrel, a work carrier adapted to deposit work on said mandrel normally positioned in spaced relation thereto, work-supporting means positioned intermediate the mandrel and said carrier for successively feeding the work pieces into cooperative relation with the work carrier, automatically controlled means connected with the carrier for moving said carrier into and out of engagement with the mandrel, means for automatically ejecting the work from the mandrel, and a gate cooperating with the work holder adapted to permit the work to be carried from the holder to the mandrel and to prevent work ejected from the mandrel to enter said holder.

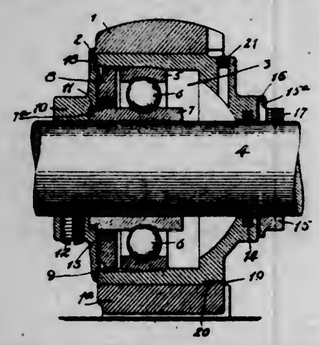
1,946,430
PROCESS FOR PREPARING WATER-SOLUBLE CONDENSATION PRODUCTS
Alfred Thauss, Cologne-Deutz, Gustav Mauthe, Cologne-Holweide, and Arnold Doser, Cologne-Mulheim, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y.
No Drawing. Application March 11, 1930, Serial No. 435,919, and in Germany March 23, 1929
4 Claims. (Cl. 260—64)

1. Process for preparing water-soluble condensation products comprising heating and aromatic hydroxy compound with about the same quantity of a halogenated aralkylhalogenide containing no hydroxyl group to a temperature of from 15 to 100° C. for 3–15 hours in the presence of a catalyst selected from the group consisting of zinc chloride and aluminium chloride and sulfonating the condensation product obtained at a temperature between 35 and 80° C.

1,946,431
PILLOW BLOCK
Merwin S. Vile, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application December 9, 1930. Serial No. 500,997
1 Claim. (Cl. 308—189)

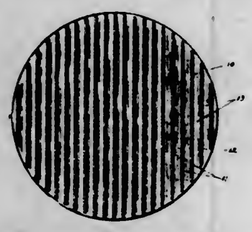
In a pillow block, a housing having a wide opening at one end, a smaller shaft passage at the opposite end, an anti-friction bearing com-

prising an inner and an outer bearing ring with anti-friction devices therebetween, means for supporting the outer ring in said housing to permit orientation of the same, the inner ring being adapted to fit upon a rotatable shaft and being longer than the outer ring and extending beyond the same toward the wide opening of the housing, a non-rotatable closure plate removably mounted on the inner wall of the housing and surrounding the extended end of said inner ring but spaced therefrom to permit limited free oscillation of the latter, means in said space to check the escape of lubricant from the interior of the housing, a collar on the shaft for rigidly



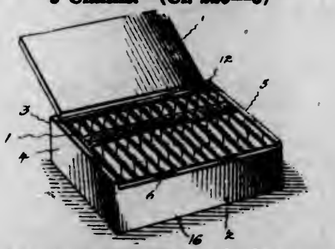
connecting said inner ring thereto against movement in any direction thereon, a dust slinging flange on said collar overstanding said closure plate, and a portion of the end of said housing overstanding the edge of said flange, said flange being free of said plate and housing to permit slight oscillation of the shaft, the opposite reduced end of said housing surrounding the shaft and slightly spaced therefrom, with means in said space to check the escape of lubricant from the interior of the housing, a collar on said shaft adjacent to the contracted end of the housing and having a dust slinging flange overstanding a portion of the end of the housing, a portion of the latter in turn overstanding the edge of the flange.

1,946,432
SURFACE PLATE
Erik H. Aldeborgh, Poughkeepsie, N. Y., assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y., a corporation of New York
Application July 28, 1931. Serial No. 553,580
2 Claims. (Cl. 33—174)



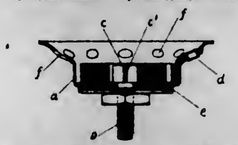
2. A surface plate comprising a body portion having an undulatory top surface, the undulations of which have flat tops inclined sides and rounded intersections integral with the body portion, and a mounting portion integral with said body portion formed with an angular encircling groove.

1,946,433
BOX
Champe S. Andrews, North Chattanooga, Tenn.
Application November 21, 1930
Serial No. 497,103
9 Claims. (Cl. 229—6)



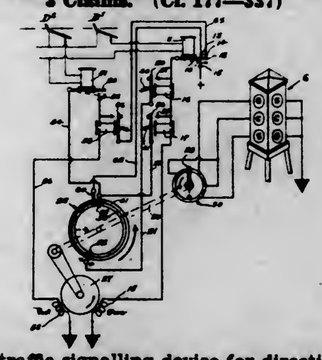
1. A cigar box comprising a body composed of an open frame of relatively heavy stiff paperboard forming the side walls of the box and an outer shell of tough bendable paper material providing the bottom for the box and a covering for said frame.

1,946,434
ELECTRIC CIGAR LIGHTER
Hans Bach, Frankfort-on-the-Main, Germany
Application November 3, 1930, Serial No. 493,208, and in Germany November 4, 1929
3 Claims. (Cl. 219—32)



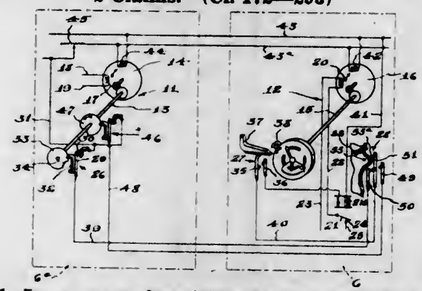
1. A cigar lighter comprising a resistance unit composed of a plurality of bands of resistance material in mutual contact from end to end and arranged spirally and the convolutions of which are in mutual contact and provided with an insulating coating film of oxide to prevent short circuiting, the exposed edges of the bands forming an uninterrupted surface from center to circumference.

1,946,435
VEHICLE ACCELERATED TRAFFIC SIGNAL
Carl H. Bissell, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application June 25, 1930. Serial No. 463,782
3 Claims. (Cl. 177—337)



1. A traffic signalling device for directing traffice at the intersection of a highway and a cross street including in combination signals for indicating right of way; a pair of vehicle actuated means located in the cross street; cycle timer means for controlling the signals and initiated upon actuation of the first vehicle actuated means on a cycle of definite predetermined maximum duration to shift the right of way indication from the highway to the cross street and back to the highway; and operable upon subsequent actuations of the second and first vehicle actuated means to successively decrease and increase respectively the duration of the cycle within said definite predetermined maximum duration of the cycle.

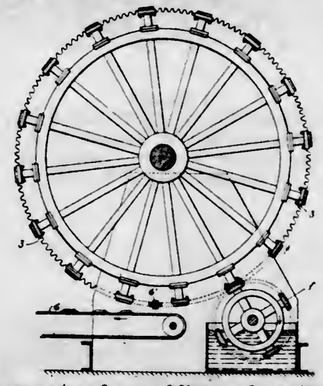
1,946,436
RESYNCHRONIZING SYSTEM FOR MASTER AND SECONDARY CONTROLLERS
Carl H. Bissell, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application October 27, 1930. Serial No. 491,350
2 Claims. (Cl. 172—293)



1. In a resynchronizing system including a master controller and a secondary controller, each controller comprising a timer and an electric motor for actuating the timer, each motor including driving coils to actuate the same, and braking coils acting in opposition to the driving coils, a circuit for energizing the braking coils of both motors, a circuit for energizing the driving coil of the motor of the master controller, and a circuit, including a normally closed switch, for energizing the driving coil of the motor of the secondary controller, electro-responsive means operable when energized to open said normally closed switch, a circuit for energizing said electro-responsive means including a normally open switch, a plurality of control circuits, each including a normally closed switch and means operable by the master controller to periodically open each of said last mentioned switches at different relative periods of the cycle of the master controller, and means for selectively connecting one of said control circuits to the circuit of the electro-responsive means, and means operable by the secondary controller to periodically close the normally open switch in the electro-responsive means circuit.

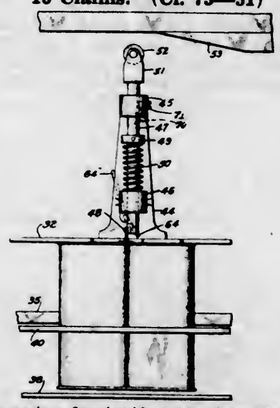
1,946,437
ART OF PRODUCING MOLDED PULP ARTICLES
Merle P. Chaplin, Waterville, Maine, assignor, by mesne assignments, to Fidelity Trust Company, trustee, Portland, Maine, a corporation of Maine
Application October 13, 1928. Serial No. 312,244
21 Claims. (Cl. 92—56)

1. The method of continuously molding and drying pulp articles which consists in die molding the articles from liquid pulp on a rotating series of forming dies, in rotating in orbitally intersecting relation thereto a timed series of pressing and drying dies onto which the articles are directly transferred from the forming dies, and in passing a heated moisture-absorption band over the formed articles on said pressing and drying die series to retain them on the dies and to assist in drying them while in orbit.



18. Apparatus for molding pulp articles comprising a pair of members rotatable on parallel, spaced axes, a series of circumferentially spaced forming dies carried by one member to dip into pulp stock and to have articles partially formed thereon, a series of circumferentially spaced article receiving dies carried by the other member, means for intermittently rotating the members in timed relationship to bring the dies of the respective series successively into alinement with each other and to effect a pause in their rotation each time a pair of the dies become alined, and means for moving at least one of the dies of the alined pair towards the other die of the pair during each pause in the rotation of the members to cause the article to be pressed and shaped between the dies.

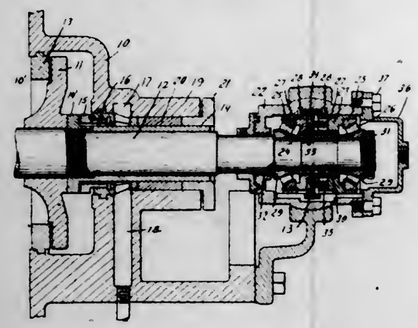
1,946,438
HANDLE TESTING MACHINE
Rollin L. Drake and Leon D. Titus, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 28, 1929. Serial No. 374,464
16 Claims. (Cl. 73—51)



10. Apparatus for testing can handles comprising a rotary element, a plurality of testing units mounted on said rotary element, means for positioning a can beneath each of the testing units and for moving the cans so positioned in unison with the testing units, means for conveying a sue-

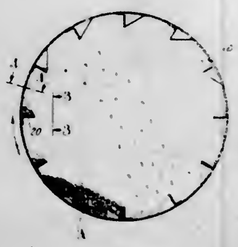
cession of cans to said positioning means, means for actuating the handle of each successive can into engagement with one of the testing units, means for actuating the testing units to impose a predetermined stress on the handles engaged therewith, means for severing the engagement between the handles and the testing units at a given point in the cycle of operation and means for conveying the cans from the apparatus.

1,946,439
CENTRIFUGAL PUMP BEARING
Edgar W. Heller, Newark, N. J.
Application August 9, 1930. Serial No. 474,099
15 Claims. (Cl. 308—135)



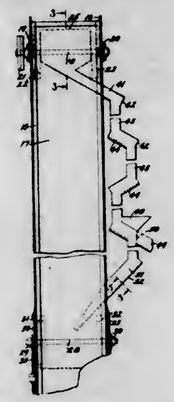
1. In a centrifugal pump containing an impeller and a hydraulic balance mounted on a shaft, a thrust bearing for the shaft including a retainer movable longitudinally but prevented from rotating, a normally fixed abutment engageable by a part of the retainer for positively limiting the movement of the bearing and shaft in one direction, and resilient means resisting said movement in the other direction.

1,946,440
APPARATUS AND METHOD OF FINISHING ROLLERS
Karl L. Herrmann, South Bend, Ind., assignor to The Bantam Ball Bearing Company, South Bend, Ind., a corporation of Indiana
Application November 17, 1933
Serial No. 698,503
9 Claims. (Cl. 51—164)



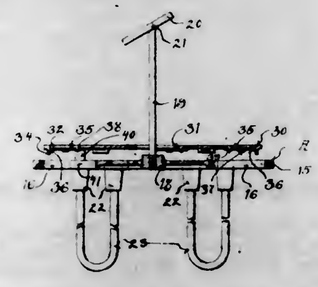
8. A machine for rounding the ends of rollers comprising, means for elevating said rollers, means for arranging said rollers to permit discharge thereof in an end-wise direction against an impact surface, and means to tumble said rollers to wear off any upset portion thereof.

1,946,441
MECHANISM AND METHOD OF FINISHING ROLLERS
Karl L. Herrmann, South Bend, Ind., assignor to The Bantam Ball Bearing Company, South Bend, Ind., a corporation of Indiana
Application November 17, 1933
Serial No. 698,504
15 Claims. (Cl. 51—2)



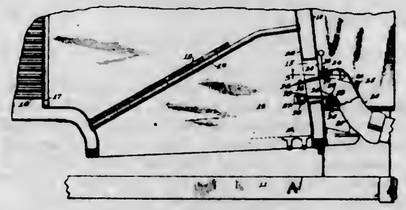
1. A machine for rounding the ends of rollers comprising, means for elevating said rollers, and a chute including an impact surface for returning said rollers to a position to again be elevated.

1,946,442
APPARATUS FOR MAKING FROZEN CONFECTIONS
Stanley Isenberg, Chicago, Ill., assignor to Frozen Sweets, Inc., a corporation of Illinois
Application March 21, 1932, Serial No. 600,195
Renewed October 26, 1933
3 Claims. (Cl. 107—19)



1. A portable device for freezing confections in an ordinary ice cream cabinet or the like comprising a mold plate having a plurality of predeterminedly arranged openings therein, a plurality of molds detachably fitted in said openings, said mold plate also having slots therein, a stick carrier plate arranged above the mold plate having depending feet provided with reduced lugs for fitting within said slots whereby to locate the stick carrier plate in predetermined relation to the mold plate, said carrier plate having a plurality of stick receiving openings therethrough, depending lugs formed on the carrier plate at one side of the openings therein, and leaf springs connected with the carrier plate having the ends thereof arranged adjacent to said lugs for releasably holding the sticks against said lugs.

1,946,443
FUEL DISTRIBUTING SYSTEM
John H. Ichter, Ashley, Pa., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application November 6, 1930. Serial No. 493,762
4 Claims. (Cl. 110—101)



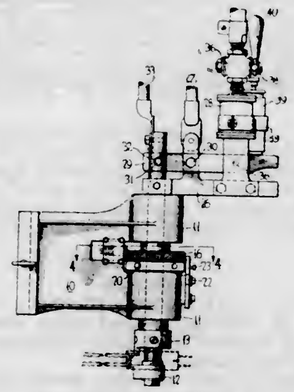
1. In a furnace having a firebox and a firing opening, a fuel conduit communicating with the lower portion of said firing opening, a distributor plate mounted in said firing opening for receiving fuel from said fuel conduit, means at the rear of said plate arranged to project fuel thereover, laterally curving fuel deflecting abutments on the forward corners thereof for directing fuel to the rear corners and sides of the firebox, a fuel deflecting plate positioned above said distributor plate and extending forwardly beyond said fuel projecting means, said deflecting plate being mounted at its rearward end in the upper portion of said fuel conduit and arranged to swing vertically about said rearward end, and means without said conduit for adjusting said deflecting plate and securing it in any one of a number of positions.

1,946,444
APPARATUS FOR WAVING HAIR
René Mussy, Hempstead, N. Y.
Application January 14, 1933. Serial No. 651,702
11 Claims. (Cl. 132—33)



1. Apparatus for waving hair comprising a main curler rod, upon which a portion of the length of a hair strand is adapted to be coiled, an auxiliary rod upon which another portion of said length is capable of being wound, and cooperating means on said rods effective upon substantially longitudinal movements of said rods in opposite directions relative to each other for releasably attaching one to the other.

1,946,445
SEAM WELDER
Earl J. W. Ragsdale and John C. Whitesell, Jr., Norristown, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 5, 1932. Serial No. 609,417
7 Claims. (Cl. 219—4)



1. In an internal seam welding machine the combination of concentrically mounted welding electrodes adapted for joint rotary motion and relative reciprocable movement.

1,946,446
COMPOSITION OF MATTER AND PROCESS OF PREPARING THE SAME
Edmund O. Rhodes and Elmer H. Hyde, Pittsburgh, Pa., assignors to American Tar Products Company, Inc., a corporation of Delaware
No Drawing. Application July 10, 1931
Serial No. 550,040
15 Claims. (Cl. 87—17)

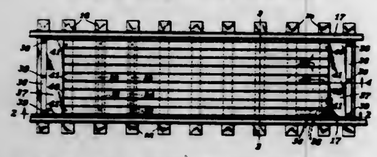
8. A process of preparing a binding material which process comprises mixing tar with a condensate of vapors obtained in coking pitch, heating the resulting mixture to vaporize the lower boiling constituents and removing the said lower boiling constituents to form a residue having a melting point of substantially from 30° C. to 160° C.

15. A binding material comprising a mixture of pitch having a melting point of substantially 100° C. to 150° C., and pitch oil obtained as a distillate in coking pitch, the said mixture having a melting point of substantially 85° C. to 110° C.

1,946,447
PROPIONIC ACID FERMENTATION OF FRUCTOSE-CONTAINING MASHES
Hugh R. Stiles, Terre Haute, Ind.
No Drawing. Application June 29, 1932
Serial No. 619,964
13 Claims. (Cl. 260—120)

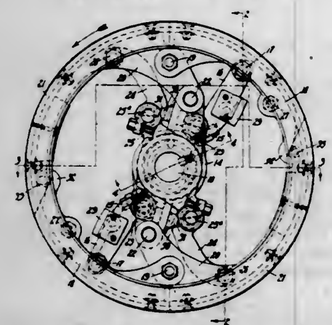
10. A process for the production of propionic acid by fermentation which comprises subjecting a fermentable mash containing soluble carbohydrate material of at least 25% fructose equivalent to the combined action of mannitol-forming bacteria and propionic acid bacteria.

1,946,448
RAILROAD CROSSING STRUCTURE
Herbert E. White and Thomas E. McLaughlin, Cleveland, Ohio, assignors to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan
Application September 26, 1930
Serial No. 484,673
16 Claims. (Cl. 238—8)



1. In a railroad crossing, the combination with the ties and rails supported thereon, of a set of carrier bars of channeled formation mounted on the ties between the rails, and a set of elongated metal channel bars mounted on the carrier bars and extending longitudinally of the rails.

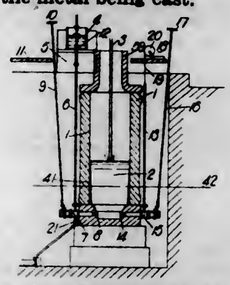
1,946,449
COLLAPSIBLE DRUM
Thomas H. Williams, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application October 24, 1932. Serial No. 639,159
16 Claims. (Cl. 154—9)



11. A collapsible tire building form comprising oppositely disposed key sections and oppositely disposed intermediate sections hinged together in pairs, means for supporting and rotating and collapsing and expanding the form, said means including connections to the key sections for first partly collapsing the same and then upon a continued collapsing movement of the key sections to apply collapsing forces to the intermediate sections through the hinges of the sections, and connections to the intermediate sections for supporting and guiding the same in their collapsing movement.

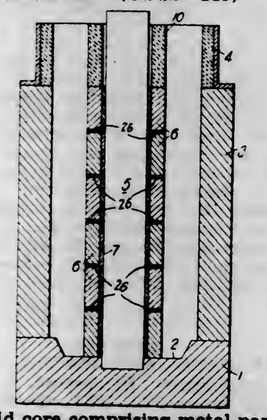
1,946,450
PRODUCTION OF METAL CASTINGS
Richard William Bailey, Hale, England, assignor to Associated Electrical Industries Limited, a company of Great Britain
Application July 18, 1931, Serial No. 551,769, and in Great Britain August 15, 1930
7 Claims. (Cl. 22—200)

1. A process of producing metal castings, comprising pouring molten metal into a mold, permitting the poured metal to partially solidify, and introducing between at least a part of the solidified surface of the metal and the mold fluid metallic substance having a melting point lower than that of the metal being cast.



5. A process of producing metal castings, comprising pouring molten metal into a mold, permitting the poured metal to partially solidify and introducing molten lead between the mold and at least a part of the solidified surface of the metal being cast.

1,946,451
PRODUCTION OF METAL CASTINGS
Richard William Bailey, Hale, England, assignor, by direct and mesne assignments, of one-half to Associated Electrical Industries Limited, a company of Great Britain, and one-half to English Steel Corporation Limited, Sheffield, England, a corporation of Great Britain
Application April 12, 1932, Serial No. 604,818, and in Great Britain April 22, 1931
12 Claims. (Cl. 22—140)



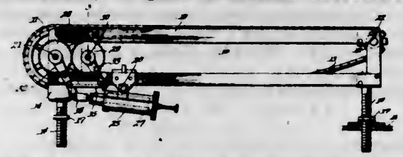
1. A mould core comprising metal parts which will not melt at the highest temperature to which the core is subjected, spaced apart by metal parts of a comparatively low melting point.

12. A compressible mould core comprising a steel cylindrical column surrounded by a plurality of superposed ring elements of steel segmental pieces held in spaced relationship by lead distance pieces, and surmounted by a hemispherical cap of sheet metal enclosing a hemispherical mass of lead.

1,946,452
GLASSWARE CONVEYER
Edward G. Bridges, Anderson, Ind., assignor to Lynch Corporation, a corporation of Indiana
Application November 4, 1930. Serial No. 493,363
6 Claims. (Cl. 198—135)

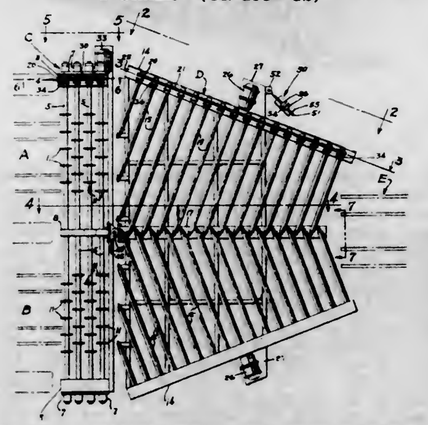
1. In a conveyer for removing glassware in a glassware forming machine and conveying it to

a delivery station at a point remote therefrom, an endless conveying member providing a substantially horizontal glassware supporting surface, means for driving said conveying member intermittently in quick succession characterized



by the movements of said member being of longer duration than the intervening stop periods which are of momentary duration, such as produced during opposite strokes of a quickly reciprocable actuator.

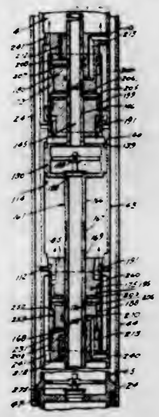
1,946,453
CONVEYING MECHANISM
James Russell Brodbeck, Wampum, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania
Application August 18, 1933. Serial No. 685,757
1 Claim. (Cl. 198—32)



In a conveying mechanism for transferring hot sheet metal from a plurality of furnaces to a common point of operation, a frame having a plurality of load carrying rollers arranged in adjacent rows, the rollers in one row being arranged obliquely to the rollers in the other row, means for pivotally connecting the receiving end of said frame to a stationary support adjacent said furnaces, and means for moving the discharge end of said frame laterally in an arcuate path to align it with the common point of operation and cause each of said rows of rollers to automatically assume different angular positions with respect to said furnaces, to thereby feed the sheets on one row of rollers laterally toward the center line of said roller frame faster than the sheets on the other row of rollers.

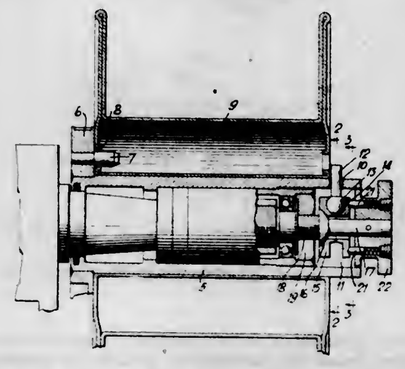
1,946,454
FLUID-MOTOR DEEP WELL PUMP
Clarence J. Coberly, Los Angeles, Calif., assignor to Kobe, Inc., Huntington Park, Calif., a corporation of California
Application February 16, 1927. Serial No. 168,516
20 Claims. (Cl. 121—150)

1. In a fluid-operated motor adapted to be positioned in a well, the combination of: a cylinder; heads at opposite ends of said cylinder; a piston slidable in said cylinder by fluid pressure alternately supplied to opposite ends of said cylinder; two extensions on said piston, one extension extending into one of said heads and the other extending into the other of said heads; means for supplying a motive fluid to said motor; a fluid pressure-operated control valve means situated at one end of said motor for controlling



the flow of motive fluid into and out of one end of said cylinder; a second fluid pressure-operated control valve means situated at the other end of said motor for controlling the flow of motive fluid into and out of the other end of said cylinder; and means controlled by the position of said extensions to admit motive fluid into operating relation with said valve means.

1,946,455
REEL CLAMP
Oliver M. Davis, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application October 7, 1931. Serial No. 567,383
6 Claims. (Cl. 242—130)



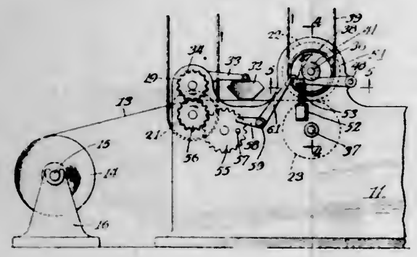
1. A reel clamp for spindles comprising reel engaging fingers extending outward from said spindle, means for causing the reel engaging portions of said fingers to move longitudinally of said spindle to clamp or release an associated reel, and means for retracting said fingers within the circumference of said spindle.

1,946,456
ROTARY SWIVEL
Richard L. Day, Houston, Tex., assignor of three-fourths to E. C. Northen, Galveston, Tex.
Application April 7, 1932. Serial No. 603,852
9 Claims. (Cl. 255—25)



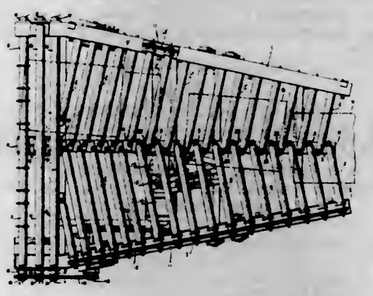
1. In a hydraulic swivel, the combination of a housing, a swivel stem mounted for rotation therein, a closure for said housing, a tubular member mounted on said swivel stem and passing through said closure and adapted to be rotated with said swivel stem, a wash pipe within said swivel stem, inlet means for delivering fluid to said wash pipe, and a non-rotating sleeve-like member associated with said inlet means extending around one end of said wash pipe and entering into said tubular member.

1,946,457
MACHINE FOR CUTTING PRINTED WRAPPERS
Robert B. Donnelley, Chicago, and John F. Hawley, Oak Park, Ill.
Application February 19, 1930. Serial No. 429,533
6 Claims. (Cl. 164—68)



1. An apparatus for preparing a web of wrapping material for packaging, comprising in combination, a support across which a relatively large area of wrapping material may be moved, cutting means associated with said support and a mechanism for controlling the operation of said cutting means, said mechanism being arrangeable both to cut said web of wrapping material at periodic regular intervals and at intervals determined by indicia arranged upon said material.

1,946,458
CONVEYING MECHANISM
Archibald D. Evans, Warren, Ohio, and Harold H. Clark, Ellwood City, Pa.; said Clark assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania, and said Evans assignor to The Wean Engineering Company, Inc., Warren, Ohio, a corporation of Ohio
Application January 28, 1933. Serial No. 654,032
3 Claims. (Cl. 198—127)



1. In a conveying mechanism, a supporting structure comprising diverging side frame members and a longitudinally extending centrally disposed beam, a plurality of load carrying rollers supported in said structure and arranged in two rows, the axes of the rollers of one of said rows being disposed at substantially right angular relation to one of said side frame members, and the axes of the rollers of the other of said rows being disposed at right angular relation to the other of said side frame members, whereby the axes of the rollers of one row will be disposed obliquely to the axes of the rollers of the other of said rows, and the adjacent ends of the rollers of said rows being supported upon said center beam in interdigitating relation, to thereby prevent sagging or drooping portions of articles conveyed by said rollers from impinging against the ends thereof, when passing from the rollers of one row onto the rollers of the other row.

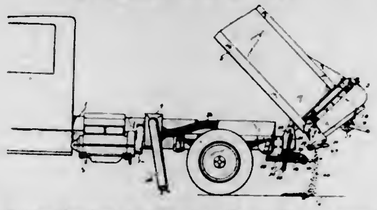
1,946,459
METHOD FOR PRODUCING SYNTHETIC RESIN
Frederick S. Granger, Elizabeth, N. J., assignor to Combustion Utilities Corporation, New York, N. Y., a corporation of Maine
No Drawing. Application April 30, 1930
Serial No. 448,802
14 Claims. (Cl. 260—4)

1. The process for the production of potentially-reactive synthetic resins of the phenol formaldehyde type which comprises the steps of reacting together in the cold for a period of at least three hours, a mixture comprising an alkaline phenolate solution and an aldehyde, thereafter heating the reaction mixture at a temperature substantially above 60° C. to facilitate a resinification reaction and the production of the said resins, neutralizing the resultant reaction mixture with a dilute acid, thereby precipitating the said synthetic resins, and recovering the latter.

1,946,460
METHOD FOR THE PRODUCTION OF PREPARATIONS SUITABLE FOR PURIFYING AIR AND LIBERATING OXYGEN
Ewald Herzog, Badisch Rheinfelden, Germany, assignor to Deutsche Gold & Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a corporation
No Drawing. Application November 3, 1927, Serial No. 230,929, and in Germany November 10, 1926
2 Claims. (Cl. 23—6)

2. Method for the production of preparations suitable for purifying air and liberating oxygen in closed spaces comprising treating an alkali metal peroxide with from 6 to 9 parts by weight of water in finely divided state per 100 parts of peroxide at temperatures kept at about zero degrees C. and in the presence of a catalyst for the liberation of oxygen in the presence of carbon dioxide and water.

1,946,461
ROAD BUILDER'S EQUIPMENT
Frank B. Hurt, La Grande, Oreg.
Application April 15, 1931. Serial No. 530,308
20 Claims. (Cl. 94—44)



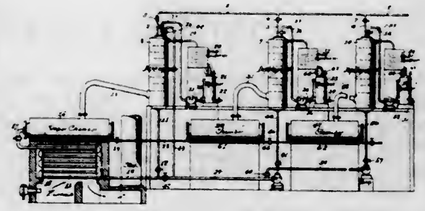
16. In a device for laying dust free aggregate upon a road, the combination of a truck body, a spreader head removably secured thereto, means for securing a uniform distribution of the aggregate over the width of the spreader head, means for pneumatically cleaning the aggregate from dust and other finely comminuted particles, and for removing dust particles from a prepared road bed by suction.

1,946,462
COMPOSITION OF MATTER
Elmer H. Hyde and Floyd D. Hager, Pittsburgh, Pa., assignors to American Tar Products Company, Inc., a corporation of Delaware
No Drawing. Application July 15, 1930
Serial No. 468,201
7 Claims. (Cl. 167—45)

1. A composition of matter, for use in preventing the growth of vegetation and in the destruction of weeds, comprising a mixture of all of the distillates of coal tar which are driven off therefrom up to a temperature of substantially from 800° F. to 1,000° F.

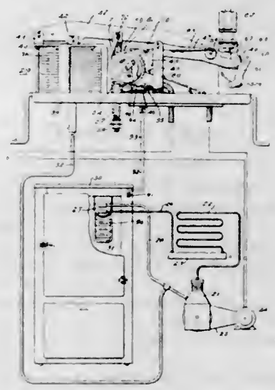
1,946,463
PROCESS AND APPARATUS FOR CONVERTING OILS
Carbon P. Dubbs, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
Application June 22, 1921, Serial No. 479,445
Renewed March 10, 1927
24 Claims. (Cl. 196—49)

1. A process of converting hydrocarbon oil, consisting in subjecting the oil to an initial conversion treatment by passing it through a unit comprising a heating coil, vaporizing means and a dephlegmator, in maintaining said initial unit under a superatmospheric pressure, in passing unvaporized oils while in a highly heated condition from the vaporizing means of said initial unit successively through succeeding units, in reducing the pressure on the oil in each of said



succeeding units to vaporize substantial portions of the oil under the reduced pressures, in dephlegmating, condensing and collecting the vapors evolved in each of the succeeding units, in returning the distillate produced in each unit to the dephlegmating zone of that unit for redistillation therein, in returning the reflux condensate produced in the several units to the heating coil of said initial unit for re-treatment.

1,946,464
REFRIGERATING APPARATUS
John Ralph Fehr, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware
Application November 20, 1930, Serial No. 496,903
Renewed June 8, 1933
18 Claims. (Cl. 62—4)



1. Refrigerating apparatus including a refrigerator cabinet, a refrigerating system including a refrigerating element positioned within the cabinet, control means for the refrigerating system including automatic defrosting means for providing defrosting periods of the refrigerating element, and signaling means for indicating in advance the advent of a defrosting period.

Patents Nos. 1,946,465 to 1,947,440

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Trade-Marks	247—No.	310,045 to No.	310,291, inclusive.
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Labels	38—No.	43,214 to No.	43,251, inclusive.
Prints	19—No.	14,580 to No.	14,598, inclusive.
Reissues	13—No.	19,073 to No.	19,085, inclusive.
Designs	30—No.	91,477 to No.	91,506, inclusive.
Patents	976—No.	1,946,465 to No.	1,947,440, inclusive.
Total	1,343		

Adjudicated Patents

(D. C. N. Y.) Green patent, No. 1,094,785, for milk-tank washer and sterilizer, claims 1, 2, 3, 4, 5, 6, and 7 *Held* not infringed. *Lathrop* v. *Oakes & Burger Co.*, 5 F. Supp. 70.

(D. C. N. Y.) Lathrop and Paulson patent, No. 1,172,808, for milk-can-washing machine, claims 4, 5, 6, 7, 8, and 9 *Held* not infringed. *Id.*

(D. C. N. Y.) Lathrop and Paulson patent, No. 1,247,692, for cover-applying mechanism for can washing machines, claims 1, 2, 3, 7, 8, and 9 *Held* not infringed. *Id.*

(D. C. N. Y.) Lathrop and Paulson patent, No. 1,249,129, for milk-can-washing machine, claims 1, 2, 3, 4, 6, 7, and 8 *Held* not infringed. *Id.*

(D. C. N. Y.) Lathrop and Paulson patent, No. 1,249,130, for feeding mechanism for can-washing machine, claims 4, 5, and 6 *Held* not infringed. *Id.*

(D. C. N. Y.) Lathrop and Paulson patent, No. 1,255,896, for can-washing machine, claims 1, 2, 3, 4, and 5 *Held* not infringed. *Id.*

(D. C. N. Y.) Lathrop and Paulson patent, No. 1,336,567, for can-reversing mechanism for can-washing machines, claim 1 *Held* not infringed. *Id.*

(D. C. N. Y.) Lathrop and Paulson patent, No. 1,336,570, for can-washing machine, claims 1, 2, 12, 13, and 14 *Held* not infringed. *Id.*

(D. C. N. Y.) McEwan patent, No. 1,396,516, for can-washing machine, claims 1 and 2 *Held* not infringed. *Id.*

(D. C. Mich.) Currier patent, No. 1,428,762, for telephone system, claims 2, 12, 13, 35, and 39 *Held* valid and infringed, and claims 5, 30, and 33 *Held* invalid. *Kellogg Switchboard & Supply Co.* v. *Michigan Bell Telephone Co.*, 5 F. Supp. 118.

(D. C. Mich.) Currier patent, No. 1,438,170, for telephone system with flickering recall, claims 33, 34, and 46 *Held* invalid. *Id.*

(D. C. N. Y.) McEwan patent, No. 1,578,451, for can-delivering mechanism, claims 1, 2, 3, 4, and 5 *Held* not infringed. *Lathrop* v. *Oakes & Burger Co.*, 5 F. Supp. 70.

(D. C. N. Y.) McEwan patent, No. 1,649,073, for can conveying inverting and discharging mechanism, claim 1 *Held* not infringed. *Id.*

(D. C. N. Y.) Lathrop patent, No. 1,653,219, for rotary can washer, claims 1, 2, 3, 4, and 5 *Held* not infringed. *Id.*

(C. C. A. Ill.) Gibbs patent, No. 1,710,160, for respirator, *Held* valid and infringed. *Chicago Eye Shield Co.* v. *Pulmosan Safety Equipment Corporation*, 67 F.(2d) 623.

Transfer of Classes

(Order No. 3,259)

U. S. Patent Office, *Washington, Jan. 8, 1934.*

The following transfers, to take effect at once, are hereby ordered:

Classes 8, 52, and 127 from Division 63 to Division 43.
Classes 3, 32, 128, and Subs. 3 and 12, Class 167, from Division 43 to Division 55.
Class 107 from Division 55 to Division 63.
Class 259 from Division 25 to Division 63.
Class 18, Subs. 49, 50, 52, and 53, from Division 15 to Division 50.
Class 106, Subs. 1–12, 14–21, 36.1–36.3, 38 and 39, from Division 50 to Division 38.
Class 174 from Division 43 to Division 54.
Class 249 from Division 36 to Division 20.
Class 185 from Division 47 to Division 45.
Class 293 from Division 34 to Division 10.
Classes 186 and 243 from Division 34 to Division 4.
Class 123, Subs. 90–96, 170–178, and 196, from Division 28 to Division 45.
Class 165 from Division 55 to Designs Division, which is hereby created.

RICHARD SPENCER,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business January 27, 1934

(Total number of applications awaiting action, excluding Trade-Mark Division, 41,168; Trade-Mark Division, 1,056. Oldest new case, September 5, 1933; oldest amended, September 8, 1933. The dates given are 1933 except where † indicates 1934.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Oct. 9	Oct. 10	435
6708	2. HERRMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Oct. 2	Oct. 2	708
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Oct. 28	Oct. 27	635
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Oct. 18	Oct. 5	375
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Oct. 27	Oct. 30	474
4896C	6. LEWERS, A. M., Carbon Chemistry	Oct. 2	Oct. 5	936
5725	7. JARBOE, C. G., Optics; Photography	Oct. 20	Oct. 18	828
3887	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov. 21	Dec. 2	259
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 16	Nov. 27	430
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Sept. 18	Sept. 20	524
5067B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 28	Sept. 30	569
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms.	Oct. 13	Oct. 13	534
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 20	Nov. 20	456
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Nov. 27	Nov. 24	329
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 15	Oct. 16	926
5612	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 17	Nov. 17	423
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Oct. 4	Sept. 30	813
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Nov. 29	Nov. 29	276
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Oct. 1	Oct. 2	1,030
5613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Oct. 20	Oct. 11	202
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Sept. 22	Sept. 29	833
5724	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Sept. 28	Sept. 28	890
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Sept. 29	Sept. 27	527
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 31	Nov. 6	506
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 27	Sept. 27	790
5893	26. ADAMS, W. M., Electricity, Generation; Motive Power	Dec. 4	Dec. 5	263
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Oct. 27	Oct. 27	451
4628	28. BENSON, A. R., Internal-Combustion Engines	Oct. 8	Oct. 5	552
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Nov. 18	Nov. 24	254
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 27	Oct. 27	545
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Sept. 27	Sept. 28	1,018
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 10	Nov. 8	401
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Oct. 6	Oct. 6	739
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid-Pressure Brakes.	Sept. 27	Sept. 27	885
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Oct. 6	Oct. 6	683
7624	36. McFAYDEN, A. D., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Sept. 5	Sept. 8	1,198
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 31	Nov. 2	416
7810	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Sept. 28	Sept. 28	710
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Oct. 14	Oct. 18	649
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Oct. 9	Oct. 9	952
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Oct. 11	Oct. 16	409
5882	42. CUTTING, H. O., Electric Signaling	Sept. 27	Sept. 27	821
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Sept. 29	Sept. 29	659
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Sept. 27	Sept. 27	743
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Sept. 13	Sept. 9	406
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Nov. 9	Nov. 9	339
7600	47. BARKER, H., Clutches; Brakes; Motors	Oct. 2	Sept. 30	982
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Oct. 3	Oct. 4	606
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Sept. 27	Sept. 27	668
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Oct. 3	Oct. 3	960
5628	51. BACKUS, C. D., Radiant Energy	Nov. 1	Nov. 1	686
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Oct. 30	Nov. 17	464
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Nov. 13	Nov. 13	401
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Oct. 5	Oct. 5	803
6887	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	Sept. 15	Sept. 15	785
	55. BOWEN, S. T.—Designs	Dec. 28	†Jan. 2	373
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Oct. 2	Oct. 2	734
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Oct. 25	Oct. 24	285
5605	58. DOWELL, E. F., Abrading	Dec. 1	Nov. 24	248
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Oct. 7	Oct. 9	621
5906	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Sept. 27	Sept. 27	827
5724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus	Oct. 10	Oct. 7	402
3876	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Oct. 4	Oct. 2	1,111
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Oct. 5	Oct. 2	714
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Oct. 28	Oct. 27	899
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Sept. 28	Sept. 28	798
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—Trade-Marks	Dec. 29	†Jan. 15	916
	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—Labels and Prints	Dec. 29	†Jan. 12	140

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

PUREX CORPORATION, LTD. *v.* UNITED DRUG COMPANY

No. 3,181. Decided December 30, 1933

[F.(2d)]

1. TRADE-MARKS—SIMILARITY—HOW DETERMINED.
In determining whether two trade-marks are confusingly similar "we may not dissect the marks, but must take them as they are".

2. SAME—SAME—SAME.
"Certainly, even if it be conceded that the mark 'Puretest' is subject to registration and is not descriptive, which question is not presented here, it cannot successfully be contended that its registration will prevent others from adopting and using some syllable thereof, such as 'Pure', or its phonetical equivalent 'Pur', so long as such syllable is not, in itself, confusingly similar to the opposer's mark."

3. SAME—SAME—"PUREX" USED ON A BLEACH AND WATER SOFTENER AND "PURETEST" USED ON MEDICINES, PHARMACEUTICAL PREPARATIONS, AND TOILET PREPARATIONS.
The term "Purex" as used on a bleach and water softener *Held* not confusingly similar to "Puretest" as used upon medicines, pharmaceutical preparations, and toilet preparations.

APPEAL from the Patent Office. Reversed.

BLAND, *J.*, and HATFIELD, *J.*, dissent.

Mr. James M. Naylor and *Mr. Chas. H. Allen* for Purex Corporation, Ltd.

Mr. Edward S. Rogers, *Mr. Brenton K. Fisk*, and *Mr. Thomas L. Mead., jr.*, for United Drug Co.

GRAHAM, *P. J.*:

The applicant, Purex Corporation, Ltd., filed a petition in the United States Patent Office on May 31, 1930, for the registration of a trade-mark, "Purex", used by it in connection with the sale of bleach and water softener. The appellee, United Drug Company, filed notice of opposition, relying upon certain trade-marks used by it in connection with its business, and specified the following registered trade-marks:

"Puretest", registered February 1, 1921, for medicines and pharmaceutical preparations; "Puretest", registered December 17, 1929, for the same; "Rex", registered November 27, 1900, for dyspepsia cure; "Rexall", registered June 30, 1914, for medicines and toilet and pharmaceutical preparations; "Rexall", registered August 26, 1913, for shampoo paste, hair tonic, depilatory, and a parasiticide; "Rexall", registered February 16, 1915, for perfume, toilet water, sachet powders, and smelling salts; "Rex-Salvine", registered August 20, 1929, for ointment for cuts and burns; "Rexillana", registered May 17, 1927, for cough syrup, and "Agarex", registered June 19, 1928, for emulsion of mineral oil.

The facts in the case are shown by stipulated testimony, which shows that the appellant's predecessor first used the name "Purex" on or about October 10, 1923. The stipulation recites that—

said trade-mark was coined by R. A. Precourt, the originator of applicant's products—namely, a bleach and a water softener, who was also one of the partners in applicant's predecessor company, and was not the result of a suggestion offered by any other person. It is strictly a coined word, and was not adopted with any other known or registered trade-mark in mind.

The stipulation on the part of appellant also shows that the appellant has continuously used said mark on its bleach and water softener since that time, and has built up a large and valuable business in its product; that it has spent considerable sums for advertising; that the opposer has no proof of actual confusion between the products of the appellant and those of the appellee, occasioned by the use of said mark; that appellant's products are, and have been, sold only to wholesale and retail grocers, and not to the consumer; that they are sold in groceries only.

On the part of appellee, there is stipulated testimony to the effect that a very large business, approximating $28,000,000 a year, has been built up upon its products, which consist of a large number of pharmaceuticals and medicinals, and which include ammonia, borax, and oxalic acid; that—

the opposer will offer no evidence in this case to show that any trade-mark mentioned in the notice of opposition or in the record has been used on goods commercially known as a bleach and water softener;

that all of appellee's products are sold in its own drug stores only; that it sells as one of its products a cleanser called "Elkay's Klens-All (formerly Rexall Universal Cleanser);" that the original Rexall line of goods was established in 1903; that the opposer produces a straw-hat cleaner which it sells, but which is not distributed under any of its aforesaid trade names.

The Examiner of Interferences was of opinion that there was no likelihood of confusion and dismissed the notice of opposition. On appeal, the Commissioner had a different view, sustained the opposition, and denied registration. The Commissioner came to this conclusion because of his belief that there would probably be confusion as to origin, and that his doubts about that matter should be resolved against the newcomer in the field.

The question is, does the mark of the applicant-appellant so nearly resemble the marks of the opposer-appellee as to be likely to cause confusion or mistake in the mind of the public, or to deceive purchasers?

Discussing the question of confusion, we have said in *California Packing Corp.* v. *Tillman & Bendel, Inc.*, 17 C. C. P. A. (Patents) 1048, 40 F.(2d) 108, 394 O. G. 789.

• • • This *distinguishing difference* or *indistinguishable* similarity may rest not only in the "essential characteristics" of the goods themselves with reference to their form, composition, texture, and quality, but may rest in the use to which they are put, the manner in which they are advertised, displayed, and sold, and probably other considerations. The question as to

whether confusion and failure to distinguish will result may also depend largely upon the class of purchasers or persons concerned.

See also, *Goodrich Co.* v. *Hockmeyer et al.*, 17 C. C. P. A. (Patents) 1068, 1075, 40 F.(2d) 99, 394 O. G. 795 and *Buckeye Soda Co.* v. *Oakite Prod.* 19 C. C. P. A. (Patents) 1034, 56 F.(2d) 462, 419 O. G. 829. In determining questions of this kind the court will consider the cost, use, appearance, structure, and competitiveness of the articles involved in the application and opposition. *Williams Oil-O-Matic H. Corp.* v. *Westinghouse, etc.*, 20 C. C. P. A. (Patents) 775, 62 F.(2d) 378, 430 O. G. 628.

Two material facts are evident upon the face of this record: First, it appears that the appellant's predecessor acted in entire good faith in the adoption of its name "Purex"; that it coined an arbitrary word; and that, in so doing, it had no intent to obtain any advantage from the use of the trade names of appellee. Second, although the goods have been extensively sold in the same territory, under their respective trade names, for 8 years, the opposer has no proof of actual confusion. In addition, the product of appellant is sold in grocery stores, those of appellee in its own drug stores. Appellant's sole product is a bleach and water softener, while appellee has never sold any such commercial product. The respective products appeal to different customers. There is no showing that the goods are packaged in a confusingly similar way.

Appellee insists that appellant has taken essential and dominant parts of its trade names and has produced therefrom a trade name which is confusingly similar; that it has taken the syllable "Pur" from "Puretest", and "Rex" from "Rexall" or "Rex", and has thus produced a word which might be mistaken for appellee's several trade names. In view of the facts shown by this record, we cannot concur in this conclusion. The word "Purex", in itself, has neither the appearance nor the sound of "Rex", "Puretest", or "Rexall". Considering these facts in connection with the difference in character and uses of the respective goods, in our opinion, the marks are not confusingly similar.

[1] We may not dissect the marks, but must take them as they are. *Apex Elec. Mfg. Co.* v. *Landers et al.*, 17 C. C. P. A. (Patents) 1184, 41 F.(2d) 99, 398 O. G. 708; *Vick Chem. Co.* v. *Cordry*, 19 C. C. P. A. (Patents) 828, 54 F.(2d) 428, 417 O. G. 271.

[2] Certainly, even if it be conceded that the mark "Puretest" is subject to registration and is not descriptive, which question is not presented here, it cannot successfully be contended that its registration will prevent others from adopting and using some syllable thereof, such as "Pure", or its phonetical equivalent "Pur", so long as such syllable is not, in itself, confusingly similar to the opposer's mark.

[3] The decision of the Commissioner of Patents is reversed, the opposition will be dismissed and registration granted.

Reversed.

Court of Appeals of the District of Columbia

PERCY ET AL. *v.* COE, COMMISSIONER OF PATENTS

No. 5,806. Decided December 11, 1933

1. PATENTABILITY—THERMIONIC ELECTRODE.
   Claims for a thermionic electrode *Held* unpatentable over the prior art.
2. SAME—ELECTRIC DISCHARGE TUBE.
   Claims for an electric discharge tube *Held* unpatentable over the prior art.

APPEAL from the Supreme Court of the District of Columbia.

Mr. F. W. Lyle, of East Pittsburgh, Pa., and *Mr. Raymond Jones*, for appellants.

Mr. T. A. Hostetler for appellee.

Before MARTIN, Chief Justice, and ROBB, HITZ, and GRONER, Associate Justices

MARTIN, *C. J.*:

This is an appeal from a decree of the Supreme Court of the District of Columbia in an equity suit, brought under section 4915, Revised Statutes, against the Commissioner of Patents, wherein appellants were denied Letters Patent for an alleged invention of an electric space-current device.

The application for the patent contained seven claims, of which the fourth has been withdrawn. All of the claims were denied by the Commissioner of Patents, whereupon the present suit in equity was begun in the lower court and this appeal is prosecuted under the statute.

The invention described in the application is an electrical space-current device, for use in a rectifier, or for similar purpose, comprising a partially evacuated glass envelope, and a pair of discharge electrodes including a cold anode and a hot (thermionically emissive) cathode. It is stated that the cathode structure of the device is the principal feature of the invention, and claims 1, 2, and 3 relate to it. Claims 5, 6, and 7 define an electrical-discharge tube enclosing a gaseous atmosphere including also the thermionic cathode defined in claims 1, 2, and 3.

[1] Claim 2, which is illustrative of the first three claims, reads as follows:

> 2. A thermionic electrode comprising a heating element including a substantially cylindrical member of refractory material, and a thermionically active sleeve in contact with said cylindrical member, said sleeve comprising a sintered mixture of nickel particles and particles of oxides of the alkaline earth metals.

Claim 6, which is illustrative of the last three claims, reads as follows:

> 6. An electrical discharge tube enclosing a gaseous atmosphere of such a pressure that gas ions carry a substantial part of the current, and comprising an anode and a thermionic cathode comprising a heating element and a refractory insulating member in good thermal relation therewith, said insulating member having a coating comprising a sintered mixture of metal particles and thermionically active particles.

The cathode structure set out in claims 1, 2, and 3, comprises a heating element consisting of a cylindrical member of refractory material through which a U-shaped heating filament extends. Surrounding the cylindrical member and adhering to it is a sleeve which is composed of a sintered mass of metal and oxides of the alkaline earth metals and constitutes the electron-emitting element of the cathode. The oxides of barium, strontium, and calcium are used as the electron-emitting oxides, and these are fused or sintered with finely divided nickel particles to form a homogeneous mass which is firmly held to the nickel. It is claimed by the applicant that these capably withstand the positive-ion bombardment and maintain substantially constant performance throughout the life of the rectifier.

The applicant states that by means of his invention he provides a gas filled rectifier having a cathode which is either directly or indirectly heated and employs as an electron-emitting element a fused or sintered mass of nickel and thermionic emitting oxides such as barium, strontium, and calcium oxides, and that thereby he obtains an electron-emitting element which has very high emissivity, and maintains about the same characterisics for a very long time, far exceeding the life and performance of the ordinary tungsten electrodes. The envelope is preferably to be filled with a small quantity of inert gas such as argon or mercury vapor for securing an atmosphere of molecules capable of carrying a discharge between the cathode and anode at a relatively low pressure, as is well known in the art. In making the sleeve which constitues the electron-emitting element of the cathode, nickel is preferably used on account of its relatively low melting point.

The subject matter of the rejected claims was, however, held by the Board of Appeals and by the court below to be unpatentable in view of the prior art as represented by the following patents: Nicolson, 1,169,182, January 25, 1916; Torrisi, 1,368,584, February 15, 1921; Hocker, 1,459,400, June 19, 1923; Marden, 1,591,717, July 6, 1926; Fessenden, 915,280, March 16, 1909.

The Nicolson patent relates to a thermionic translating device. It discloses a cathode for use in an electron-emitting device which consists of a heating element threaded through a quartz tube, the outer surface of which has a thermionic active coating. The coating is prepared by first forming a platinum deposit on the quartz tube, the platinum deposit being in turn coated with a thermionically active material as a mixture of the oxides of barium and strontium.

The patent to Torrisi is for a cathode for audions. It discloses a cathode comprising a cylindrical nickel tube, which is platinum plated both inside and out and covered on the outside walls with an electron-emissive oxide. The heating element for the cathode element consists of a rod of a heat-resisting composition, as porcelain, wound on its tip with a heating coil with leads running down the rod. The heater element is inserted into the cathode element and is renewable from the outside of the discharge device.

The patent to Hocker is for an electron-emitting cathode and process of making the same. It discloses a cathode for use in an electron-discharge device which consists of a filamentary core of platinum or a suitable platinum alloy with a coating of alkaline earth oxides either singly or in combination impregnated with a finely divided noble metal as platinum, gold, or silver. The electron-emitting material is applied to the core material by dipping the core into a solution of the oxides and a chloride of the noble metal which is easily converted to the metal upon being heated, and then baking the coating upon the core material.

The patent to Marden is for an electron-emitting material and method of manufacture. It discloses a cathode for use in an electron discharge device which may consist of a core material as tantalum or platinum-iridium with an electron emissive coating of oxides of barium and strontium intimately mixed with finely divided metal as platinum or nickel, or else the filament may be made entirely of electron emissive oxides intimately mixed with a finely divided metal as platinum or nickel. The cathode may be formed by applying a suspension of the mixture of the oxides and the finely divided metal to the filamentary core material by any suitable method, as dipping or spraying and then baking the coating of the filamentary core. Water or nitro-cellulose dissolved in amyl-acetate may be used as the suspending medium. If the cathode is to be made entirely of the alkaline earth oxides intimately mixed with the finely divided metal (nickel), a paste of the oxides and the metal powder with any suitable binder may be squirted into a filament in the manner similar to that in which squirted tungsten filaments were formerly made, that is the squirted filament could be heated to drive out the binding medium and thereafter raised to a high temperature in an inert atmosphere to cause the particles to sinter. Instead of squirting the filaments, the alkaline earth oxides, intimately mixed with the finely divided metal powders may be pressed into a slug and treated in accordance with the method now commonly utilized for treating tungsten and molybdenum, that is the slug could be heated in an inert atmosphere to cause the slug to be sintered and thereafter swaged or rolled to filamentary proportions.

The patept to Fessenden is for an electrical signaling device. It uses a vacuum tube, which may be of any desired shape and may contain any suitable gas such as hydrogen, nitrogen, helium, argon, neon, etc., the ones named of the helium group having been found especially advantageous. The cathode is of such material as iridium or aluminum possibly covered with an oxide of calcium or its equivalents, barium or strontium. This cathode is indirectly heated and the structure clearly discloses the broad combination of an electric discharge tube filled with an ionizable gas and housing electrodes, one of which is an indirectly heated oxide-coated cathode.

Upon a review of the record we are convinced that the claims now in question were anticipated by the inventions set out in the foregoing references.

The patents mentioned therein show that the use of nickel, barium oxide, strontium oxide, and calcium oxide has long been known in the art for

uses similar to those made of them in the present construction. This appears from the patents of Marden and Hocker. In Nicolson's patent is found a thermionic electrode comprising a heating element including a member of nonconducting refractory material. The coating, however, differs from the present claims in that the metal and oxides are separately applied and not mixed. Marden, however, discloses that the metal and oxides may be applied to the filament when sintered or may be baked thereon. The equivalent to the sleeve in the present application is to be found in the coating.

We agree with the statement of the Examiner which was subsequently approved by the Board of Appeals that no invention is involved in substituting or perceiving the possibility of substituting the coating of Marden's and Hocker's in place of the coating of Nicolson's cathode, and this conclusion meets appellants' claims 1, 2, and 3.

[2] In respect to claims 5, 6, and 7, which include the vacuum tube inclosing a gaseous atmosphere in combination with the cathode construction set out in claims 1, 2, and 3, it appears that Nicolson, Torrisi, and Hocker severally disclose a vacuum tube and the Marden device also is intended to be used in a vacuum tube. A gaseous atmosphere within the tube is disclosed by Nicolson, Hocker, and Fessenden. The remaining elements contained in the glass tube are simply those defined by claims 1, 2, and 3, already mentioned above.

We therefore think that the claims are for a combination of elements producing no new result over what is shown in the art and are therefore unpatentable. *Edwards* v. *Dayton Mfg. Co.*, 257 Fed. 980.

The decree of the lower court, accordingly, is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,131,460. (See 1,276,484.)

1,170,790. A. M. Weston, Serving device for eating houses, D. C. N. J., Doc. E 4669, *Mapleton Corp.* v. *Keystone Leather Co.* Dismissed May 9, 1933.

1,195,632, W. C. White, Circuit connections of electron discharge apparatus; 1,239,852, F. K. Vreeland, Receiver of electrical impulses; 1,544,081, same, Transmitting intelligence by radiant energy; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,297,188, I. Langmuir, System for amplifying variable currents; 1,573,374, P. A. Chamberlain, Radio condenser; 1,728,879, Rice & Kellogg, Amplifying system; 1,820,809, E. W. Kellogg, Electrical system, D. C., S. D. N. Y., Doc. E 76/266, *Radio Corp. of America et al.* v. *H. Antin et al.* (*A. H. Grebe & Co.*). Consent decree for plaintiff (notice Dec. 8, 1933).

1,196,691, B. F. Hopkins, Means for distributing liquids, D. C. N. J., Doc. E 4168, *Alliance Securities Co.* v. *Eclipse Air Brush Co.* Discontinued Oct. 2, 1933.

1,203,553. (See 1,276,484.)

1,212,840, F. J. Straub, Building block and method of making same, D. C. N. J., Doc. E 3762, *Crosier-Straub, Inc., et al.* v. *E. Nelson et al.* Consent decree Aug. 30, 1933.

1,231,764, F. Lowenstein, Telephone relay; 1,618,017, same, Wireless telegraph apparatus; 1,403,475, H. D. Arnold, Vacuum tube circuit; 1,432,022, B. A. Heising, Circuit connections of electron discharge apparatus; 1,465,332, H. D. Arnold, Vacuum tube amplifier; 1,507,016, L. de Forest, Radio signaling system; 1,507,017, same, Wireless telegraph, and telephone system; 1,811,095, H. J. Round, Thermionic amplifier and detector; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation, D. C., S. D. N. Y., Doc. E 76/265, *Radio Corp. of America et al.* v. *Antin et al.* (*A. H. Grebe & Co.*). Consent decree for plaintiff (notice Dec. 8, 1933).

1,239,852. (See 1,195,632.)

1,244,217, Re. 15,278, I. Langmuir, Electron discharge apparatus and method of operating same; 1,558,437, same, Electrical discharge apparatus; 1,758,803, O. W. Pike, Vacuum tube; 1,855,885, A. W. Hull, Electron discharge device, filed Nov. 20, 1933, D. C. N. J., Doc. E 4757, *General Electric Co.* v. *Hygrade Sylvania Corp.*

1,251,030, H. B. Hoffman, Combination garment, filed Dec. 7, 1933, D. C., S. D. N. Y., Doc. E 77/43, *H. B. Hoffman* v. *J. Stephen et al.* (*Josa Silk Underwear Co.*).

1,251,377. (See 1,195,632.)

1,258,302, V. Bendix, Starter, filed Nov. 22, 1933, D. C. N. J., Doc. E 4761, *Eclipse Machine Co. et al.* v. *H. L. Walker et al.* Doc. E 4762, *Eclipse Machine Co. et al.* v. *J. Waldinsperger et al.*

1,266,517, G. S. Meikle, Rectifier; 1,393,520, E. Friederich, Enclosed arc device and the method of starting same, filed Nov. 23, 1933, D. C. N. J., Doc. E 4763, *General Electric Co.* v. *I. A. Frucht* (*Vulcan Products Co.*).

1,276,484, N. E. Brown, Machine for use in making metal bound packages; 1,371,595, O. M. Babcock, Crate making machine; 1,453,446, B. J. Davidson, Wire joining tool; 1,453,447, same, Wire joining method; Re. 14,670 (of 1,131,460) S. F. Bauwens, Box blank machine; 1,313,854, 1,313,855, 1,408,336, same, Wire bound box machine; 1,469,711, same, Wire joining tool; 1,410,422, 1,406,105, 1,539,922, 1,595,033, 1,669,388, 1,738,806, O. C. Thompson, Machine for use in making boxes; 1,432,019, E. Emerson, same; 1,461,014, D. A. Landers, same; 1,601,225, A. K. Smith, same; 1,365,471, C. Elkler, same; 1,425,774, 1,371,487, 1,332,728, R. G. Inwood, same; 1,371,598, 1,485,953, C. Bombardie, same; 1,203,553, same, Staple forming and feeding mechanism; 1,371,599, same, Wire bound box machine; 1,454,517, H. J. Koch, Method of making wirebound boxes; 1,457,529, 1,454,518, same, Wirebound box machine, D. C. N. J., Doc. E 4548, *Wirebound Patents Co.* v. *4-One Box Machine Makers et al.* Dismissed Nov. 2, 1933.

1,294,250, C. V. Elliott, Arc welding electrode; 1,528,878, 1,528,879, C. J. Holslag, Electric-arc-welding electrode; 1,559,875, same, Method of and means for electric arc welding, filed May 2, 1933, D. C. N. J., Doc. E 4610, *Electric Arc Cutting & Welding Co.* v. *Scully Steel Products Co.*

1,297,188. (See 1,195,632.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, D. C., S. D. N. Y., Doc. E 64/44, *Alemite Corp.* v. *M. Kanton et al.* Decree for plaintiff (notice Dec. 8, 1933).

1,307,734. (See 1,307,733.)

1,313,854. (See 1,276,484.) 1,313,855. (See 1,276,484.)

1,331,931, J. A. Kimberly, jr., Paper roll holder, D. C. N. J., Doc. E 4645, *Multi Print System Co., Inc.*, v. *Ribbon & Ticker Paper Co. et al.* Dismissed Nov. 27, 1933.

1,332,728. (See 1,276,484.)

1,333,389, Comb & Peavey, Machine for cooking doughnuts, filed Dec. 7, 1933, D. C., S. D. N. Y., Doc. E 77/47, *National Automatic Doughnut Machine Co.* v. *Doughnut Corp. of America.*

1,365,471. (See 1,276,484.) 1,371,487. (See 1,276,484.)

1,371,595. (See 1,276,484.) 1,371,598. (See 1,276,484.)

1,371,599. (See 1,276,484.) 1,393,520. (See 1,266,517.)

1,403,475. (See 1,231,764.) 1,406,105. (See 1,276,484.)

1,408,336. (See 1,276,484.) 1,410,422. (See 1,276,484.)

1,425,774. (See 1,276,484.) 1,432,019. (See 1,276,484.)

1,432,022. (See 1,231,764.)

1,439,121, A. E. Reimers, Heating unit for sad irons, filed Dec. 4, 1933, D. C., S. D. N. Y., Doc. E 77/39, *A. E. Reimers et al.* v. *I. Abrams.*

1,453,446. (See 1,276,484.) 1,453,447. (See 1,276,484.)

1,454,517. (See 1,276,484.) 1,454,518. (See 1,276,484.)

1,457,529. (See 1,276,484.) 1,461,014. (See 1,276,484.)

1,465,332. (See 1,231,764.) 1,469,711. (See 1,276,484.)

1,472,532, M. Picciotti, Clock mechanism, D. C. N. J., Doc. E 4649, *M. Picciotti* v. *Wallace & Tiernan Products, Inc.* Discontinued July 22, 1933.

1,475,980. (See 1,307,733.) 1,485,953. (See 1,276,484.)

1,492,518, J. V. Martin, Aerofoil end form, filed Dec. 8, 1933, U. S. Ct. of Claims, Doc. 42553, *J. V. Martin* v. *United States.*

1,493,283, T. G. Robinson, Process and apparatus for making button blanks from pearl stock, filed May 15, 1933, D. C. N. J., Doc. E 4622, *T. G. Robinson* v. *Peerless Pearl Co. et al.*

1,507,016. (See 1,231,764.) 1,507,017. (See 1,231,764.)

1,528,342, F. Pfistner, Building construction; 1,653,656, same, Building corner guard, D. C. N. J., Doc. E 4336, *F. Pfistner, jr.*, v. *Bayonne Steel Products Co.* Discontinued Mar. 23, 1933.

1,528,878. (See 1,294,250.) 1,528,879. (See 1,294,250.)

1,535,849, M. Noda, Clinical thermometer tubing, D. C., E. D. N. Y., Doc. E 6522, *Akasen Ken-Inki Kabushiki Kaisha* v. *Nurnberg Thermometer Co., Inc.* Consent decree for plaintiff (notice Dec. 8, 1933).

1,537,708, W. Schottky, Thermionic vacuum tube; 1,696,103, G. Seibt, Electric discharge tube, filed Nov. 13, 1933, D. C. N. J., Doc. E 4752, *Radio Corp. of America* v. *Hygrade Sylvania Corp.*

1,539,922. (See 1,276,484.) 1,544,081. (See 1,195,632.)

1,558,437. (See 1,244,217.) 1,559,875. (See 1,294,250.)

1,573,374. (See 1,195,632.)

1,594,039, W. A. Baum, Manometer, filed June 14, 1933, D. C. N. J., Doc. E 4634, *W. A. Baum Co., Inc.*, v. *Becton, Dickinson & Co., Inc.*

1,595,033. (See 1,276,484.) 1,601,225. (See 1,276,484.)

1,618,017. (See 1,231,764.)

1,630,495, N. Marcalus, Box for paper rolls, filed May 24, 1933, D. C. N. J., Doc. E 4619, *Automatic Paper Machinery Co., Inc.*, v. *Greenspan Bros. Co.*

1,640,335, O. O. Grondahl, Uni-directional current carrying device, D. C., E. D. N. Y., Doc. E 7118, *Union Switch & Signal Co. et al.* v. *L. Faussig.* Consent decree for plaintiff Dec. 6, 1933.

1,653,656. (See 1,528,342.) 1,669,383. (See 1,276,484.)

1,684,671, H. P. Hayden, Method of preventing evaporation from concrete during curing, filed Sept. 21, 1933, D. C. N. J., Doc. E 4725, *Barber Asphalt Co.* v. *Standard Bitulithic Co.*

1,696,103. (See 1,537,708.)

1,713,628, R. E. Schletter, Attachment for flat knitting machine, D. C. N. J., Doc. E 4219, *Textile Machine Works* v. *A. Hofmann et al.* Decree Oct. 27, 1933.

1,728,879. (See 1,195,632.) 1,738,806. (See 1,276,484.)

1,746,985, A. H. Bates, Automobile heater; 1,830,691, same, Heat control for car heater; 1,834,674, same, Heater, D. C., N. D. Ohio, W. Div., Doc. E 1228, *Liberty Foundries Co.* v. *Associated Parts, Inc.* Consent decree for plaintiff, patents held infringed Dec. 7, 1933.

1,757,813, Proctor & Schaab, Tunnel liner; 1,778,606, R. V. Proctor, Metallic structure, filed Dec. 6, 1933, D. C., N. D. Ohio, E. Div., Doc. 4828, *The Commercial Shearing & Stamping Co.* v. *The Youngstown Steel Car Corp. et al.*

1,758,803. (See 1,244,217.)

1,777,435 (*a*), C. F. Hogelund, Full vision frost shield, filed Dec. 8, 1933, D. C. Minn., 4th Div., Doc. E 2744, *Durkee-Atwood Co.* v. *Fifth Second Co.*

1,777,435 (*b*), C. F. Hogelund, Full vision frost shield; 1,915,098, A. W. Kile, Frost shield, filed Dec. 8, 1933, D. C. Minn., 4th Div., Doc. E 2745, *Durkee-Atwood Co.* v. *The Juokem Co.*

1,778,829, F. B. Mason, Cores and composition for producing same, D. C. N. J., Doc. E 4734, *Aristo Corp. et al.* v. *F. B. Mason.* Dismissed on consent Oct. 30, 1933.

1,778,606. (See 1,757,813.)

1,783,952, A. C. Brill, Plating skin, D. C. N. J., Doc. E 4209, *Turner Tanning Machinery Co.* v. *Standard Embossing Press Mfg. Co.* Decree June 12, 1933.

1,799,877, 1,886,440, G. H. Wheary, Hand luggage; 1,869,418, Re. 18,415, B. M. Hamlin, same, Luggage carrier, D. C. N. J., Doc. E 4738, *Wheary Trunk Co.* v. *K. Kaufmann & Co., Inc.* Consent decree Nov. 24, 1933.

1,811,095. (See 1,231,764.)

1,815,768, A. Goergiev, Electrolyte, filed Dec. 5, 1933, D. C., S. D. N. Y., Doc. E 77/41, *Aerovox Corp.* v. *Dumont Electric Corp.*

1,820,809. (See 1,195,632.)

1,828,094, H. Andrewes, Electrical frequency changing apparatus of the thermionic type, filed Dec. 6, 1933, D. C., M. D. Pa., Doc. 1083, *Radio Patents Corp.* v. *Penn Electrical Engineering Co.*

1,830,691. (See 1,746,985.)

1,830,768, I. M. Rod, Art of making garments, D. C. N. J., Doc. E 4712, *Rokap Corp.* v. *Joseph Bros., Inc.* Consent decree Nov. 1, 1933.

1,834,674. (See 1,746,985.)

1,835,866, J. F. Harold, Lace making, filed May 19, 1933, D. C. N. J., Doc. E 4618, *J. F. Harold* v. *Londat Arts Fabric Co. et al.*

1,843,339, J. S. Reynolds, Heavy-duty rotary scraper, D. C., S. D. Calif. (Los Angeles), Doc. E W–51–M, *O. M. Reynolds et al.* v. *Killefer Mfg. Corp.* Dismissed without prejudice Dec. 5, 1933.

1,855,885. (See 1,244,217.) 1,869,418. (See 1,799,877.)

1,886,440. (See 1,799,877.)

1,888,031, H. L. Fink, Terrazzo strip, filed Nov. 14, 1933, D. C. N. J., Doc. E 4756, *H. L. Fink* v. *Horley Terrazzo Strip Co.*

1,900,749. (See Re. 18,444.)

1,900,750. (See Re. 18,444.)

1,915,032, J. W. Poulter, Method of and means for correcting paying settlements, filed July 20, 1933, D. C. N. J., Doc. E 4663, *National Equipment Corp.* v. *Ingersoll-Rand Co.*

1,915,098. (See 1,777,435 (*b*).)

1,915,098, A. W. Kile, Frost shield, filed Nov. 15, 1933, D. C. Minn., 4th Div., Doc. E 2736, *Durkee-Atwood Co.* v. *J. L. Henk et al.* (*Top Notch Auto Supply Co.*).

1,926,918, R. W. Sexton, Ornamental fabric and method of production, filed Dec. 8, 1933, D. C., S. D. N. Y., Doc. E 77/49, *R. W. Sexton* v. *C. Emmey* (*Frances Emblem Studios*).

1,937,097, G. P. Schmitt, Lighter, filed Dec. 8, 1933, D. C., S. D. N. Y., Doc. E 77/51, *Platinum Products Corp.* v. *R. H. Macy & Co., Inc.*

Re. 14,670. (See 1,276,484.) Re. 15,278. (See 1,244,217.)

Re. 17,245. (See Re. 17,355.)

Re. 17,247. (See Re. 17,355.)

Re. 17,355, W. G. Cady, Piezo-electric resonator; Re. 17,245, Re. 17,247, same, Method of maintaining electric currents of constant frequency, filed Nov. 13, 1933, D. C. N. J., Doc. E 4753, *Radio Corp. of America* v. *Hygrade-Sylvania Corp.*

Re. 17,469, E. Bocchino, Safety device for fire escapes, filed May 29, 1933, D. C. N. J., Doc. E 4628, *Safety Device Fire Escape Co., Inc., et al.* v. *Uptown Iron Works et al.*

Re. 18,415. (See 1,799,877.)

Re. 18,444. J. A. Krantz, Lock joint for metal pipes; 1,900,750, same, Stove pipe; 1,900,749, A. C. Sladky, same, filed Dec. 7, 1933, D. C., E. D. Wis. (Milwaukee), Doc. 4226, *The Reeves Mfg. Co.* v. *Milcor Steel Co.*

Re. 18,579. (See 1,231,764.)

T. M. 218,247, S. L. Goldman, Malt syrup for food purposes, D. C., S. D. N. Y., Doc. E 62/242, *Red Sun Products Co.* v. *C. I. Lee Co., Inc.* Dismissed on the merits (notice Dec. 6, 1933).

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,845,330, E. J. Pieper, Resinous condensation products and process of making, decided January 22, 1934, claims 1, 2, 3, 4, and 5.

Pat. 1,874,478, Charles Fayer, Mounting for X-ray tubes, decided January 22, 1934, claim 2.

Pat. 1,874,843, Charles Adler, jr., Air cooling attachment for electric fans, decided January 20, 1934, claims 2 and 3.

Pat. 1,902,105, C. M. Selby, Thermostatic control, decided January 22, 1934, claims 1 and 3.

Reissue Pat. 18,367, Samuel Ruben, Vacuum tube, decided January 3, 1934, claims 1, 2, 3, 4, 6, 7, and 8.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, Jan. 16, 1934.*

Lessmann Bros., their assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Alexanderwerk A. von der Nahmer Aktien-Gesellschaft, Remscheid, Germany, to effect the cancellation of the trade-mark registration of Lessmann Bros., 362 East 156th Street, New York, N. Y., No. 154,996, dated May 16, 1922, and the notice of such proceeding sent by registered mail to the said Lessmann Bros., at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Lessmann Bros., their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

RICHARD SPENCER,
First Assistant Commissioner.

CARNEGIE LIBRARY OF ATLANTA

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 13, 1934

[VOL. 439. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 332,666. SUSQUEHANNA COLLIERIES COMPANY, Cleveland, Ohio. Filed Dec. 1, 1932. Under 10-year proviso.

FRANKLIN

For Anthracite Coal.
Claims use since 1873.

Ser. No. 336,137. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Mar. 27, 1933.



For Field Seeds, Sponges, Chamois, Cuttle Bone, Peat Moss, Clay, Feathers, Nursery Stock, Mica, Sole Leather, Charcoal, and Cotton Batting.
Claims use since Nov. 15, 1932.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 344,991. HARRY S. STONE, INC., New York, N. Y. Filed Dec. 15, 1933.

Sanghaleen

For Hand Bags, Purses, Pocketbooks.
Claims use since Jan. 1, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 344,768. DREXELL PRODUCTS CORP., Brooklyn, N. Y. Filed Dec. 11, 1933.

Mary Lou

For Cold Cream Soap.
Claims use since Aug. 16, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 339,130. VADSCO SALES CORPORATION, Long Island City, N. Y. Filed June 22, 1933.

MELBALINE

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches; Skin Whitener in Liquid, Cream, and Solid Form; Face Packs, Eyebrow and Eyelash Grower, Eye Drops, Hand Lotions, Eyebrow Pencils, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powder, Chemical Preparations Suitable for the Darkening of Eyelashes and Eyebrows, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Nail Powders, Nail Creams, Nail Polishes, Nail Bleaches, Witch-Hazel Salves, Depilatories, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.

Ser. No. 339,783. LUTHER FORD & COMPANY, Minneapolis, Minn. Filed July 15, 1933.

NO-DRIP

For Bluing.
Claims use since Jan. 18, 1933.

Ser. No. 340,105. BLISH-PERTEL, Chicago, Ill. Filed July 26, 1933.

NO-TEL

For Breath Modifier or Lozenge.
Claims use since December, 1932.

Ser. No. 340,503. JUAN I. MATOS, New York, N. Y. Filed Aug. 8, 1933.

OVEJITA de PUERTO RICO

For Toilet Water Preparation.
Claims use since July 1, 1932.

Ser. No. 342,378. PACIFIC MERCANTILE COMPANY, LTD., Honolulu, Territory of Hawaii. Filed Oct. 11, 1933.



TERMOL

WHITE ANT (TERMITE) EXTERMINATOR AND WOOD PRESERVATIVE

Applicant disclaims all wording appearing in the drawing with the exception of the word "Termol".
For Preparation for Exterminating White Ants.
Claims use since Oct. 1, 1923.

Ser. No. 342,987. TURMAC SPECIALTIES CO., Berkeley, Calif. Filed Oct. 27, 1933.

ATHENE

For Skin Cleanser and Astringent, After-Shaving Lotion, Skin Cleansing Cream, Hand Cream.
Claims use since Aug. 1, 1930.

Ser. No. 343,536. JAMES L. YOUNGHUSBAND, Chicago, Ill. Filed Nov. 10, 1933.

MINUET

For Face Powder.
Claims use since Sept. 16, 1933.

Ser. No. 343,738. THE MARICOPA CREAMERY COMPANY, INC., Phoenix, Ariz. Filed Nov. 16, 1933.

MAR-I-LAC

No claim is made to the term "Lac" apart from the mark as shown.
For Lactic Acid Powder.
Claims use since June 8, 1933.

Ser. No. 343,996. R. M. LOW, doing business as Low Chemical Co., New York, N. Y. Filed Nov. 22, 1933.

No. 17

For Liquid Antiseptic for Cleaning Telephone Mouthpieces.
Claims use since Nov. 1, 1933.

Ser. No. 344,199. MONROE CHEMICAL CO., doing business as Mary T. Goldman Co., Quincy, Ill. Filed Nov. 27, 1933.



The figure is fanciful.
For Hair Color Restorers.
Claims use since Oct. 1, 1933.

Ser. No. 344,222. OTIS CLAPP & SON, INC., Boston, Mass. Filed Nov. 28, 1933.

OBTUNDORRHOID

For Ointment for Rectal Application.
Claims use since May 1, 1914.

Ser. No. 344,301. GEORGE A. TOZER, doing business as Rezot Chemical Co., Everett, Wash. Filed Nov. 29, 1933.

GOLDEN REZOT BALM

The words "Golden Balm" are disclaimed apart from the mark shown.
For Medicinal Preparation for Use in the Treatment of Colds, Sore Throat, Neuralgia, Headache, Earache, and in the Alleviation of Pain Resulting from Sprains, Rheumatism, Stiff Neck, and Sore Feet.
Claims use since July 1, 1933.

Ser. No. 344,336. CHARLES A. KRILL, doing business as Sava-Spra Company, Kalamazoo, Mich. Filed Dec. 1, 1933.

SAVA-SPRA

The word "Spra" is disclaimed apart from the mark shown.
For Preparation for Spraying Evergreens.
Claims use since July 1, 1933.

Ser. No. 344,414. RICHARD G. TUNISON, doing business as R. G. Tunison & Co., Newark, N. J. Filed Dec. 2, 1933.



The drawing is lined for red and yellow, which colors are claimed as features of the mark. No claim is made to the exclusive use of the words "Sulphur & Liver Blood Tonic" apart from the mark shown.
For Sulphur and Liver Blood Tonic.
Claims use since Nov. 27, 1933.

Ser. No. 344,584. THE FIRST NIGHTER CORPORATION, Chicago, Ill. Filed Dec. 7, 1933.

THE FIRST NIGHTER

For Toilet Cream, Beauty Cream, Cleansing Cream, Cold Cream, Tissue Cream, and Face Cream.
Claims use since Nov. 4, 1933.

Ser. No. 344,626. AMES CO., Los Angeles, Calif. Filed Dec. 8, 1933.

Sedalgesic

For Medicinal Compound—Namely, a Sedative and Analgesic.
Claims use since Sept. 8, 1933.

Ser. No. 344,845. GARRY & COMPANY, INC., New York, N. Y. Filed Dec. 12, 1933.

LAVOSCENT

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs; Skin Whitener in Liquid, Cream, or Solid Form; Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Dec. 6, 1933.

Ser. No. 344,927. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Dec. 14, 1933.

KABA

For Laxative Consisting of a Combination of Basorin and Brewers' Yeast.
Claims use since Nov. 14, 1933.

Ser. No. 344,958. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Dec. 14, 1933.

DIODRAST

For Water-Soluble Organic Iodine Compound Used as a Radiopaque Medium for X-ray Examination.
Claims use since Nov. 27, 1933.

Ser. No. 344,980. MERCK & CO., INC., Rahway, N. J. Filed Dec. 15, 1933.

VINETHENE

For Anæsthetic.
Claims use since Nov. 2, 1933.

Ser. No. 345,010. THE FARASTAN COMPANY, Philadelphia, Pa. Filed Dec. 16, 1933.

BENZOX

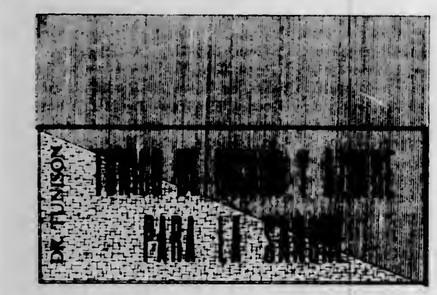
For Antiseptic and Fungicidal Ointment for Skin Conditions.
Claims use since Dec. 11, 1933.

Ser. No. 345,108. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed Dec. 19, 1933.

SPASMALGIN

For Pharmaceutical Preparation—Namely, an Anti-Spasmodic Recommended for the Relief of Pain in Cholic, Dysmenorrhea, and Other Spasmodic Conditions.
Claims use since 1919.

Ser. No. 345,187. RICHARD G. TUNISON, doing business as R. G. Tunison & Co., Newark, N. J. Filed Dec. 20, 1933.



The drawing is lined for red and yellow, which colors are claimed as features of the mark. No claim is made to the exclusive use of the words "Tonico De Higado y Azufre Para La Sangre" apart from the mark shown.
For Sulphur and Liver Blood Tonic.
Claims use since Dec. 14, 1933.

Ser. No. 345,188. RICHARD G. TUNISON, doing business as R. G. Tunison & Co., Newark, N. J. Filed Dec. 20, 1933.



The drawing is lined for red and yellow, which colors are claimed as features of the mark. No claim is made to the exclusive use of the words "Tonico Para O Sangue De Enxofre E Figado" apart from the mark shown.
For Sulphur and Liver Blood Tonic.
Claims use since Dec. 14, 1933.

Ser. No. 345,190. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Dec. 20, 1933.

CAFUMAL

For Preparation Used as a Sedative and Antispasmodic.
Claims use since Nov. 27, 1933.

Ser. No. 345,306. EDWARD J. MOORE SONS, INC., Long Island City, N. Y. Filed Dec. 28, 1933.

SANSYLVIC

For Preparation in Capsule Form for the Treatment of Venereal Diseases.
Claims use since Dec. 15, 1933.

Ser. No. 345,409. B & G COMPANY, Tacoma, Wash. Filed Dec. 28, 1933.

Quin-ids

For Protective Preparation for Feminine Hygiene.
Claims use since Dec. 15, 1932.

Ser. No. 345,648. EDWARD COMFORT TATNALL, doing business as Cet Products Co., New York, N. Y. Filed Jan. 4, 1934.

ALL CET

"It leaves you breathless"

For Medicinal Tablet to be Used to Remove the Odor of Liquor, Tobacco, Onions, or Indigestion from the Breath.
Claims use since Dec. 16, 1933.

CLASS 12

Construction Materials

Ser. No. 339,144. THE BARBER ASPHALT COMPANY, Philadelphia, Pa. Filed June 23, 1933.

SLAM-TEST

No claim is made herein to the exclusive right to the use of the word "Test" apart from the mark shown.
For Asphalt Roofing and Shingles.
Claims use since June 14, 1933.

Ser. No. 340,675. DOMISEAL CORPORATION, Portland, Oreg. Filed Aug. 14, 1933.

DOMISEAL

For Building Units and Portable Buildings Made Thereof.
Claims use since Dec. 16, 1932.

Ser. No. 345,299. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Dec. 28, 1933.

ROCKOUSTILE

For Sound-Controlling Materials Made of Mineral Wool or Mineral Flakes.
Claims use since January, 1931.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 345,450. THE AMERICAN METAL COMPANY, LIMITED, New York, N. Y. Filed Dec. 29, 1933.

OFHC

For Copper in the Form of Wire Bars, Billets, Cakes, and the Like.
Claims use since Dec. 24, 1931.

CLASS 15

Oils and Greases

Ser. No. 330,139. REFINERS DISTRIBUTING CORPORATION, River Forest and Maywood, Ill. Filed Sept. 2, 1932.



No claim is made to the word "Refiners", to the number "70", or to the representation of a container for the goods apart from the mark shown in the drawing.
For Gasoline.
Claims use since May 28, 1931.

Ser. No. 344,740. WYNNE OIL COMPANY, Philadelphia, Pa. Filed Dec. 9, 1933.

RONSON



For Motor Lubricating Oil.
Claims use since Mar. 5, 1930.

Ser. No. 345,088. WILLHELM LUBRICATION COMPANY, St. Paul, Minn. Filed Dec. 18, 1933.

Worthmore

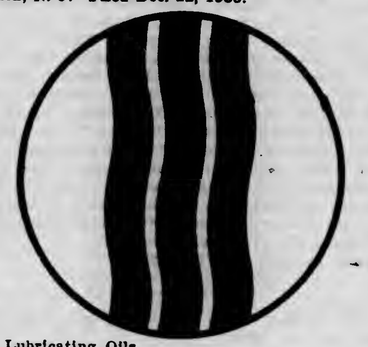
For Lubricating Oil.
Claims use since May 1, 1933.

Ser. No. 345,268. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa. Filed Dec. 22, 1933.

Uniflo

For Lubricating Oils and Greases.
Claims use since Nov. 28, 1933.

Ser. No. 345,275. STANDARD OIL DEVELOPMENT COMPANY, Linden, N. J. Filed Dec. 22, 1933.



For Lubricating Oils.
Claims use since Mar. 16, 1933.

Ser. No. 345,348. THE PENNZOIL COMPANY, Oil City, Pa. Filed Dec. 26, 1933.

RED-E-LUBE

For Lubricating Oils and Greases.
Claims use since Dec. 9, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 340,174. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y. Filed July 27, 1933.

SPIC

For Polish for Furniture and the Like.
Claims use since May 19, 1933.

Ser. No. 342,600. RED SPOT PAINT & VARNISH CO., Evansville, Ind. Filed Oct. 17, 1933.

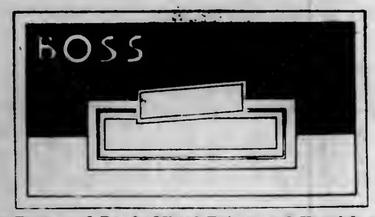
RED SPOT

The drawing is lined for red.

For Flat Wall Paint, Four-Hour Enamel, Automobile Enamel, Liquid Mask for Refinishing Automobiles, Pyroxylin Primer, Oil Surfacer, Oil Primer, Auto Finish, Spar Varnish, Oil Colors, Show Card Colors, Street Marking Paint, Liquid Blackboard Slating, Refined Creosote Paint, Wall Sealing Paint, Sash Paint, House Paint, Paste Paint, Paste Wood Filler, Store Front and Trim Paint, Metallized Water-Proof Coating, Bronze Powder Mixing Medium, Bronze Enamel, Crack and Crevice Filler, Floor Enamel, Porch Paint, Stove-Pipe Enamel, Screen Enamel, Acidproof Battery Paint; Carriage, Wagon, and Truck Enamel; Enamel for Use as a Finishing Coat, Varnish Stain, Galvanized Iron Primer, Metal Primer, Liquid Red Lead, Structural Paint, Barn Paint, Heatproof Enamel, White Enamel Paint, Enamel Undercoater, Enamel Thinner, Glazing Liquid, Paint Oil, Lacquer Thinner, Paint and Varnish Remover; Paint and Varnish Preservative for Floors, Linoleums, etc.; Japan Colors, Tinner's Paint, Bituminous Enamel, Shingle Stain, Ice-Cream Tub Enamel, Copper Bottom Paint, Oak Interior Trim and Dado Enamel, Putty, Floor Wax, Knifing Putty, Colors for Artists in Paste Form, Gasket Shellac Compound.

Claims use since June 1, 1912.

Ser. No. 344,542. PAINT ENGINEERS, INC., Dayton, Ohio. Filed Dec. 6, 1933.



For Paste and Ready-Mixed Paints and Varnishes.
Claims use since June 1, 1927.

Ser. No. 344,770. DREXELL PRODUCTS CORP., Brooklyn, N. Y. Filed Dec. 11, 1933.

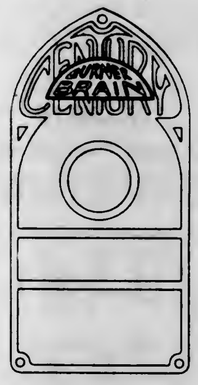
DREXELL

For Automobile Polish.
Claims use since Aug. 16, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 341,644. CENTURY ENGINEERING CORPORATION, Cedar Rapids, Iowa. Filed Sept. 18, 1933.



The word "Burner" is disclaimed apart from the mark shown in the drawing. The representation of the name plate is likewise disclaimed.

For Electric Control Switches for Oil Burners.
Claims use since July 19, 1933.

Ser. No. 343,867. MALLORY ELECTRIC CORPORATION, Detroit, Mich. Filed Nov. 20, 1933.

P. R. Mallory

Trade-mark constitutes a facsimile of the signature of M. Mallory, president of Mallory Electric Corporation.

For Electrical Coils, Distributors, and Ignition Systems for Internal-Combustion Engines.
Claims use since Nov. 2, 1933.

Ser. No. 345,153. GENERAL HOUSEHOLD UTILITIES COMPANY, Chicago, Ill. Filed Dec. 20, 1933.

LIVING TONE

No claim is made to the exclusive use of the word "Tone" apart from the mark shown.

For Radio Receiving Sets.
Claims use since Nov. 22, 1933.

Ser. No. 345,176. ROYAL BATTERY CORPORATION, New York, N. Y. Filed Dec. 20, 1933.



For Storage Batteries.
Claims use since Feb. 1, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 316,915. FRANK O. BUTLER, Chicago, Ill. Filed July 14, 1931.

DIRECTOR

For Grips for Golf Clubs.
Claims use since June 15, 1931.

Ser. No. 342,622. ROYAL PIONEER PAPER BOX MANUFACTURING COMPANY, Philadelphia, Pa. Filed Oct. 18, 1933.

KOLOR-TOONS

For Toys—Namely, Paints, Paintbrush, Wooden Figure, and Sandpaper Sold as a Unit.
Claims use since Aug. 18, 1933.

Ser. No. 344,986. FREDERICK WILLIAM SHAEFER, New York, N. Y. Filed Dec. 15, 1933.

KAMROON

For Game of Chance Using Dice and Score Sheets.
Claims use since Dec. 8, 1933.

Ser. No. 345,087. JOHN WADDINGTON LIMITED, Leeds, England. Filed Dec. 18, 1933.

LEXICON

For Card Games.
Claims use since Mar. 7, 1932.

Ser. No. 345,574. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Jan. 2, 1934.

CARDETTE

For Playing Cards.
Claims use since Dec. 21, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 332,070. MCCRORY STORES CORPORATION, New York, N. Y. Filed Nov. 11, 1932.



Applicant disclaims "First Quality Tools" apart from the mark shown.

For Nail Hammers, Half Hatchets, Cold Chisels, Screw Drivers, Nail Sets, Straight-Shank Drills, Bit Stock Drills, Taps, Dies, Die Stocks, Bench Vise Hack-Saw Blades, Hack-Saw Frames, Glass Cutters, Center Punches, Auger Bits, Coping-Saw Frames, Coping-Saw Blades, Hand Drills, Bit Brace, Block Planes, Panel Saw, Compass Saw, Hand Saw, Trowels, Tack Hammers.

Claims use since Sept. 17, 1932.

Ser. No. 342,116. WANDERER-WERKE VORM. WINKLHOFER & JAENICKE-AKTIENGESELLSCHAFT, Schonau, near Chemnitz, Germany. Filed Oct. 3, 1933.

SILENTA

For Typewriters, Typewriters in Combination with Adding or Calculating Machines, Envelope-Feeding Devices, Ribbon-Inking Machines, Ribbon-Winding Machines, Polytype Type-Printing Machines, Flat-Impression Type Machines, Manifold Writing Machines and Devices, Machines for Cutting Out Small Glass Plates, Envelope Filling and Sealing Machines, Address-Printing Machines, Machines for Affixing Postage Stamps, Machines for Opening Letters, Letter Perforators, Letter Sorters, Folding Machines, Machines for Applying Gum, Type-Copying Machines, Vending Machines, Typewriters Combined with Envelope-Feeding Devices, Copying Machines Using Type; Machine Tools—Namely, Grinders, Planers, Milling Machines, Lathes, Shapers, Boring and Drilling Machines, Printing and Duplicating Machines Using Solid Type, and Parts of Any and All of the Above Devices and Machines.

Claims use since Jan. 29, 1932.

Ser. No. 345,407. E. C. ATKINS AND COMPANY, Indianapolis, Ind. Filed Dec. 28, 1933.

HOME MECHANIC

For Saws of Various Kinds—i. e., Circular, Hand, Compass, Keyhole, Crosscut, Buck, Mitre, Dovetail, Pruning, and Kitchen Saws.

Claims use since Apr. 1, 1932.

Ser. No. 345,408. ATLANTIC SERVICE COMPANY, INC., Brooklyn, N. Y. Filed Dec. 28, 1933.

HOOK-EYE

For Meat Saws, Saw Frames, Blades for Meat Saws, Chopper Plates and Knives Used in Meat Choppers.
Claims use since September, 1901.

Ser. No. 345,498. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed Dec. 30, 1933.

MERIDIAN

For Razors and Razor Blades.
Claims use since Sept. 30, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 322,798. METERICE OF AMERICA CO., LTD., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware. Filed Jan. 7, 1932.

METER-FREEZE

For Automatic Coin-Controlled Time Registering Electric Switches.
Claims use since Jan. 5, 1932.

Ser. No. 322,853. METERICE OF AMERICA CO., LTD., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware. Filed Jan. 9, 1932.

METER-HEAT

For Automatic Coin-Controlled Time Registering Electric Switches.
Claims use since Dec. 30, 1931.

Ser. No. 334,663. CENTRAL SCIENTIFIC COMPANY, Chicago, Ill. Filed Feb. 6, 1933.

THERMELOMETER

For Temperature Indicating and Temperature Recording Devices Used by the Medical Profession in Obtaining Very Accurate Readings of Patient Temperatures.
Claims use since Dec. 16, 1932.

Ser. No. 343,383. BUILDERS IRON FOUNDRY, Providence, R. I. Filed Nov. 8, 1933.

VENTURI

For Fluid Rate of Flow Meters and Controllers.
Claims use since 1888 on water meters; since 1905 on gas meters, chemical solution meters, steam meters, and oil meters; since 1912 on air meters, and since 1907 on liquid and gaseous fluid meters generally.

Ser. No. 345,520. SENCO, INC., Los Angeles, Calif. Filed Dec. 30, 1933.



For Negative X-ray Paper.
Claims use since Sept. 28, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 332,093. GERTRUDE B. MENDELSOHN, doing business as Tapestry Studio, Painesdale, Mich. Filed Nov. 12, 1932.

CONTRAPTIONS

For Wall Racks.
Claims use since Feb. 11, 1931.

CLASS 33

Glassware

Ser. No. 344,295. SOCIÉTÉ ANONYME DES MANUFACTURES DES GLACES ET PRODUITS CHIMIQUES DE SAINT-GOBAIN, CHAUNY ET CIREY, Paris, France. Filed Nov. 29, 1933.

Sekurit

For Sheet Glass, Rough or Polished, Figured or Plain, Whether Rolled, Pressed, or Drawn, and Mirrors.
Claims use since Feb. 20, 1932.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 343,760. LOUIS A. BEAN, Denver, Colo. Filed Nov. 17, 1933.

DYNAX

For Stamped Metal Light Reflectors.
Claims use since Oct. 14, 1932.

Ser. No. 345,072. PORTLAND DISTRIBUTING COMPANY, Portland, Maine. Filed Dec. 18, 1933.

MAGIC—GLOW

For Oil Burners and Parts Thereof.
Claims use since Oct. 28, 1932.

Ser. No. 345,447. ELGIN AMERICAN MANUFACTURING CO., Elgin, Ill. Filed Dec. 27, 1933.

Idalite

For Pocket Lighters, Manually Operated and Made of Base Metal Usually Decorated with Chromium and/or Enamel.
Claims use since Feb. 11, 1928.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 338,544. THE YALE RUBBER COMPANY, INC., Akron, Ohio. Filed June 5, 1933.

BULL DOG



For Pneumatic Tires.
Claims use since Jan. 13, 1933.

Ser. No. 342,028. DEMPSTER MILL MANUFACTURING COMPANY, Beatrice, Nebr. Filed Sept. 30, 1933.



The drawing is lined for red. The words "Oak Tanned" are disclaimed. The word "Leathers" is disclaimed except in its use in association with the other features of the mark either individually or collectively.
For Cup Leathers and Valve Leathers for Pumps.
Claims use since September, 1932.

Ser. No. 344,549. TITEFLEX METAL HOSE CO., Newark, N. J. Filed Dec. 6, 1933.

COMPTITE

For Flexible Metal Hose.
Claims use since Oct. 24, 1933.

CLASS 37

Paper and Stationery

Ser. No. 333,950. REVERSIBLE COLLAR COMPANY, doing business as Middlesex Products Company, Cambridge, Mass. Filed Jan. 14, 1933.



For Coated Paper with Glazed, Plaited, or Embossed Finish Used in Manufacturing for Covering Paper Boxes; for Wrappers, Labels, Bands, and the Like; Paper Coated for Use with Recording Instruments, and Paper Backed with an Adhesive Applied Layer of Cloth Used for Manufacturing Tags, Maps, Charts, Drawings, Safety Envelopes, Children's Picture Books, Booklet Covers, Advertising, and Display Posters, Work Tickets, and the Like.
Claims use since Dec. 10, 1932.

Ser. No. 341,332. HARVEY E. GOLDBLATT, Chicago, Ill. Filed Sept. 5, 1933.

SCRIP ℞ BLANK

Applicant disclaims any right to exclusive use of the word "Blank".
For Physicians' Prescription Blanks and Labels.
Claims use since July, 1929.

Ser. No. 341,511. ZELLSTOFFFABRIK WALDHOF, Mannheim-Waldhof, Germany. Filed Sept. 11, 1933.



For Wallpaper.
Claims use since Dec. 8, 1916.

Ser. No. 343,537. ALEXANDRE ZIWES, Paris, France. Filed Nov. 10, 1933.

BLOC-AZI

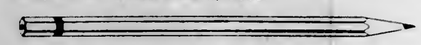
No claim is made to the word "Bloc" as shown.
For Memorandum Books.
Claims use since May 5, 1933.

Ser. No. 344,323. M. GRUMBACHER, New York, N. Y. Filed Dec. 1, 1933.



For Pastel Paper, Bristol Board, Thumb Tacks, Charcoal Paper, Sand Paper Pads, Sketch Blocks, Water-Color Paper, Sketching Pads.
Claims use since February, 1932.

Ser. No. 344,460. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Dec. 5, 1933.



The band on the pencil is lined for blue. No claim is made to the representation of the pencil apart from the mark as shown.
For Lead Pencils.
Claims use since March, 1904.

Ser. No. 344,625. AMERICAN TISSUE MILLS, Holyoke, Mass. Filed Dec. 8, 1933.

COLORDEX

For Corrugated Ornamental Paper.
Claims use since Nov. 13, 1933.

Ser. No. 344,930. PHILIP ENGLANDER, New York, N. Y. Filed Dec. 14, 1933.

SPORT-O-GRAPH

For Photographic Sports Program Score Cards.
Claims use since Nov. 25, 1933.

CLASS 38

Prints and Publications

Ser. No. 338,321. LEISURE PUBLISHING COMPANY, Chicago, Ill. Filed May 29, 1933.

Leisure

For Magazines.
Claims use since Feb. 15, 1933.

Ser. No. 344,176. COLUMBIA UNIVERSITY PRESS, New York, N. Y. Filed Nov. 27, 1933.

The FEDERALIST.

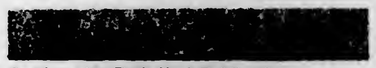
For Column Appearing in a Periodical.
Claims use since Apr. 28, 1933.

Ser. No. 344,355. PERIODICAL HOUSE INC., New York, N. Y. Filed Dec. 1, 1933.

SECRET AGENT "X"

For Magazine Published Monthly and at Other Intervals.
Claims use since Nov. 9, 1933.

Ser. No. 344,492. OUTDOOR PUBLISHING COMPANY, New York, N. Y. Filed Dec. 5, 1933.



For Section of a Periodical Publication.
Claims use since Nov. 25, 1933.

Ser. No. 344,640. THE FELLOWSHIP OF THE UNIVERSAL DESIGN OF LIFE, New York, N. Y. Filed Dec. 8, 1933.

The SCIENCE of PROGRESS

For Monthly Periodical.
Claims use since Nov. 29, 1933.

CLASS 39

Clothing

Ser. No. 321,300. ROSENAU BROS. INC., Philadelphia, Pa. Filed Nov. 19, 1931.

Joy Togs

Applicant disclaims exclusive right to the word "Togs" apart from the mark shown.
For Little Girls' Wash Dresses, Baby Creepers, and Children's Pajamas.
Claims use since Nov. 11, 1931.

Ser. No. 321,397. ROMAN STRIPE MILLS, INC., Easton, Pa. Filed Nov. 21, 1931.

PINPOINT

For Hosiery.
Claims use since Oct. 26, 1931.

Ser. No. 343,144. HENRY POLLAK, INC., New York, N. Y. Filed Nov. 1, 1933.

Colopan

For Paper Hats for Ordinary Wear.
Claims use since Oct. 19, 1933.

Ser. No. 343,434. BEAR BRAND HOSIERY CO., Kankakee and Chicago, Ill. Filed Nov. 9, 1933.



Trade-mark consists of a white line (or stripe) in contrast to the color of the stocking, incorporated in the fabric across the toe of the stocking, either by knitting the same as an integral part thereof, or by imprinting with white ink. The representation of the stocking forms no part of applicant's mark.
For Hosiery.
Claims use since June 29, 1933.

Ser. No. 343,766. BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Nov. 17, 1933.

VI-BRO PAD

No claim is made to the word "Pad" apart from the mark as shown.
For Shoes Made of Leather, Cloth, Canvas, or Combinations Thereof.
Claims use since Oct. 20, 1933.

Ser. No. 343,814. BLEECKER SHOE CO. INC., New York, N. Y. Filed Nov. 13, 1933.

Famous PRIDE OF THE WALK ARCH SUPPORT HEALTH SHOES

Applicant disclaims the right to the exclusive use of the words "Famous Arch Support Health Shoes" except in the association shown.
For Shoes for Women, the Same Being Made of Leather, Fabric, and Rubber.
Claims use since Sept. 1, 1929.

Ser. No. 344,317. CHARLES H. BROWN, New York, N. Y. Filed Dec. 1, 1933.

TWO-PLANE

The lining on drawing is for shading only.
For Leather and Canvas Boots and Shoes and Parts Thereof.
Claims use since Sept. 1, 1928.

Ser. No. 344,557. BOGART SHIRT CO., Paterson, N. J. Filed Dec. 7, 1933.

Ka-bo BACK

No claim is made to the word "Back" apart from the mark as shown.
For Negligee Shirts.
Claims use since Nov. 27, 1933.

Ser. No. 344,608. C. B. SLATER COMPANY, South Braintree, Mass. Filed Dec. 7, 1933.

THE STRAIGHT STEPPER

For Boots and Shoes of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Nov. 24, 1933.

Ser. No. 344,716. DAVID EISNER & CO., INC., New York, N. Y. Filed Dec. 9, 1933.

DESCO SPORTSWEAR

Disclaimer is made of the term "Sportswear" apart from the trade-mark as shown.
For Women's Sports Suits, Sports Dresses, and Sports Sweaters.
Claims use since July 1, 1932.

Ser. No. 344,721. GEORGE HAROLD HARDER, Philmont, N. Y. Filed Dec. 9, 1933.

Orchardlawn

For Women's and Children's Wear—Namely, Women's and Children's Dresses, Jackets, Hats, Scarfs, Children's Play Suits, and Beachwear—Namely, Beach Pajamas, Beach Coats, Beach Hats, and Beach Blankets in the Nature of Capes.
Claims use since July 1, 1933.

Ser. No. 344,779. GENERAL SHOE CORPORATION, Nashville, Tenn. Filed Dec. 11, 1933.

STIMULATOR

For Boots, Shoes, and Slippers of Leather, Fabric, or Combinations Thereof.
Claims use since Nov. 24, 1933.

Ser. No. 345,603. THE MANHATTAN SHIRT CO., New York, N. Y. Filed Jan. 3, 1934.

Mansco

For Knit Underwear and Cut and Sewn Underwear, as follows: Shirts, Drawers, and Union Suits; Athletic Drawers, Also Known as Running Pants or Track Pants; Sport Shirts and Negligee Shirts, Pajamas, Sweaters, Pull-Overs, Bathing Suits, Swim Suits, Surf Suits, Swim Shirts, Swim Shorts, Swim Pants, Sport Shorts, Belts for Personal Wear, Sport Coats Worn by Males and Females, and Neckties.
Claims use since June 16, 1915.

Ser. No. 345,604. THE MANHATTAN SHIRT CO., New York, N. Y. Filed Jan. 3, 1934.

MANTERLOCK

For Pull-Overs or Sweaters.
Claims use since Dec. 13, 1933.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 342,812. MORRIS JULIUS GOLDCROWN, doing business as M. Julius, London, England. Filed Oct. 10, 1933.

JULIKOMB

For Hair Combs Not Made of Precious Metal.
Claims use since Mar. 30, 1933.

Ser. No. 344,594. J. & P. COATS (R. I.) INC., Pawtucket, R. I. Filed Dec. 7, 1933. Under section 5b of the act of 1905 as amended in 1920.

J.&P. COATS

For Bias Tape and Bias Trim.
Claims use since Jan. 7, 1931.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 329,472. HEBERLEIN & CO., A. G., Wattwil, Switzerland. Filed Aug. 11, 1932.

HELUSTRA

For Textile Material of Cotton, Wool, Linen, Silk, Alone or in Combination in the Piece.
Claims use since May 8, 1931.

Ser No. 341,365. HORNER BROTHERS WOOLEN MILLS, Eaton Rapids, Mich. Filed Sept. 6, 1933.

"DUROFELT"

For Woven and Knitted Fabrics Composed of Wool, Alpaca, Llama, Camel's-Hair, Mohair, Cotton, Linen, Rayon, and Combinations Thereof Used Particularly for Overcoatings, Cloakings, Suitings, and Upholstery.
Claims use since June 28, 1932.

Ser. No. 343,372. SOUTHERN BAGGING COMPANY, Houston, Tex. Filed Nov. 7, 1933.

Long Reach

For Jute Bagging and Jute Patches Used for Covering Bales of Cotton.
Claims use since Jan. 1, 1931.

Ser. No. 343,915. DAVIS & CATTERALL, INC., Passaic, N. J. Filed Nov. 21, 1933.

DC FABRICS

The lines on the drawing are not indicative of color but function as a part of the circle design. Applicant disclaims any right to use the word "Fabrics" apart from the mark shown.
For Cotton Piece Goods.
Claims use since Sept. 1, 1932.

Ser. No. 344,619. SECURITY MILLS, INC., New York, N. Y. Filed Dec. 8, 1933.

Tree-Bark

For Knitted and Woven Woolen Fabrics in the Piece.
Claims use since Oct. 25, 1933.

Ser. No. 344,678. SEMANAZ PERE ET FILS, Villeurbanne, France. Filed Dec. 8, 1933.

COLETTE

For Hair Nets and Veils.
Claims use since July 4, 1932.

Ser. No. 344,854. THE KENT MANUFACTURING COMPANY, Clifton Heights, Pa. Filed Dec. 12, 1933.

Runnymede

For Woolen Piece Goods.
Claims use since 1922.

Ser. No. 344,908. THE JOHN P. KING MANUFACTURING CO., Augusta, Ga. Filed Dec. 13, 1933.

KING
Sheets & Pillowcases

The drawing is lined for blue. No claim is made to the words "Sheets and Pillow Cases" apart from the mark as shown.
For Sheets and Pillowcases.
Claims use since June 9, 1933.

Ser. No. 344,962. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed Dec. 15, 1933.

ARONDAC

For Bed Blankets of Textile Fabric.
Claims use since July 30, 1931.

Ser. No. 345,133. DEFENDER MFG. COMPANY, INC., Long Island City, N. Y. Filed Dec. 8, 1933.

Puritas

For Sheeting, Sheets, Pillowcases, Towels, and Handkerchiefs Made of Textile Fabrics.
Claims use since Aug. 26, 1912.

Ser. No. 345,237. CARTER DRY GOODS COMPANY, Louisville, Ky. Filed Dec. 22, 1933.

SHAW NEE



For Sheetings, Sheets, Pillowcases, Bed Spreads, and Cotton Piece Goods.
Claims use since Apr. 25, 1921.

Ser. No. 345,252. WILLIAM HOLLINS & COMPANY, LIMITED, Nottingham, England. Filed Dec. 22, 1933.

ROCHÈNE

For Silk Crepe Piece Goods.
Claims use since May 13, 1931.

CLASS 43

Thread and Yarn

Ser. No. 345,172. THE NATIONAL SILK COMPANY, INC., South Coventry, Conn. Filed Dec. 20, 1933.

FONCÉ

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.
Claims use since November, 1933.

Ser. No. 345,569. STEINBERGER BROS. INC., New York, N. Y. Filed Jan. 2, 1934.

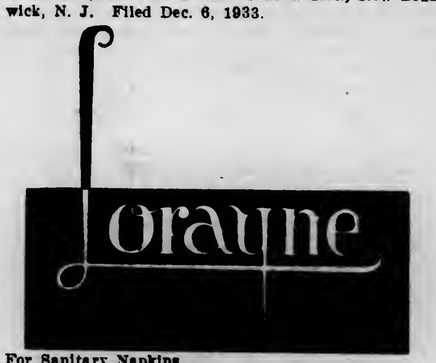
PUSSY WILLOW

For Wool, Worsted, Angora, Cotton, Silk, and Rayon Yarn, and Mixtures Thereof.
Claims use since Dec. 22, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 344,533. HOME NEED CORPORATION, New Brunswick, N. J. Filed Dec. 6, 1933.



For Sanitary Napkins.
Claims use since Aug. 3, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 344,061. HIMIKA, S. A., Jalisco, Mexico. Filed Nov. 23, 1933.

HI-MI-KA
MARCA REGISTRADA
PRODUCTO NATURAL

No claim is made to the words "Marca Registrada" and "Producto Natural".
For Nonalcoholic Maltless Beverages and Extracts for Making the Same.
Claims use since Mar. 1, 1932.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 337,113. FIELD & CO., FRUIT MERCHANTS, LIMITED, London, England. Filed Apr. 24, 1933.

TURBAN



BRAND

No claim is made to the word "Brand" except in connection with the mark as shown.

For Dried Fruits—Namely, Currants, Sultanas, Raisins, Muscatels, Dates, Figs; Green Fruits—Namely, Apples, Oranges, Lemons, and Grapes.

Claims use since Sept. 4, 1906.

Ser. No. 338,865. CONSOLIDATED TEA COMPANY, INC., New York, N. Y. Filed June 15, 1933.



No claim is made to any of the wording appearing on the drawing except "Consolidated Tea Co."

For Tea.

Claims use since 1912.

Ser. No. 341,757. COFFEE PRODUCTS OF AMERICA, INC. LTD., Los Angeles, Calif. Filed Sept. 21, 1933.

ROYAL HOTEL

For Coffee.

Claims use since Jan. 1, 1887.

Ser. No. 342,109. IDEAL FOOD PRODUCTS CO., Omaha, Nebr. Filed Oct. 3, 1933.



The word "Brand" is disclaimed apart from the mark shown.

For Malt Syrup.

Claims use since Aug. 1, 1933.

Ser. No. 342,313. KATHREINER GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed Oct. 10, 1933.



"Berlin-München" is disclaimed apart from the mark as shown.

For Natural Pure and Refined Coffee, Coffee Substitute, Malt Coffee, Coffee Preserves, Coffee Extracts, Milk, Tea, Cocoa, Chocolate, Bread, and Malt.

Claims use since June 5, 1891.

Ser. No. 343,773. HEINRICH FRINGS, Bonn, Germany. Filed Nov. 17, 1933.



The words "Bonn, Germany" are hereby disclaimed apart from the mark as shown in the drawing.

For Bacteria Food for the Manufacture of Vinegar.

Claims use since September, 1932.

Ser. No. 343,898. ROBERT J. REYNOLDS, doing business as R. J. Reynolds, Indian Orchard, Mass. Filed Nov. 16, 1933.



The drawing is lined for black and red. No claim is made to the particular color shown. No claim is made to the representation of a label. All wording on drawing except "E. J. Reynolds" and "Reynolds" is disclaimed apart from the mark shown.

For Horse-Radish.

Claims use since Sept. 27, 1907.

Ser. No. 343,935. WARDS COVE PACKING COMPANY, Ketchikan, Alaska. Filed Nov. 21, 1933.



The words "Alaska Chum Salmon" and "Brand" are disclaimed apart from the mark shown.

For Canned Salmon.

Claims use since July 24, 1933.

Ser. No. 344,190. THE ISLAND FISHERIES ASSOCIATION, LTD., New York, N. Y. Filed Nov. 27, 1933.



No registration rights are claimed for the words "Duncan Brand" apart from the mark shown.

For Fish Products—Namely, Salted Cured Herring or Matjes.

Claims use since September, 1931.

Ser. No. 344,207. STANDARD MILLING COMPANY, New York, N. Y. Filed Nov. 27, 1933.



No claim is made to the exclusive use of the words "Made in the Laboratory Controlled Mills" and "Kansas City, U. S. A." shown in the drawing.

For Wheat Flour.

Claims use since Nov. 9, 1933.

Ser. No. 344,489. WILLIAM E. WARD, South Orange, N. J. Filed Dec. 5, 1933.



No claim is made to the words "Prepared Pancake Flour" or "The Flour with a Taste You'll Not Forget" apart from use of the mark as shown.

For Prepared Pancake or Waffle Flour.

Claims use since Dec. 1, 1933.

Ser. No. 344,538. ELMER W. LAWSON, doing business as California Poppy Fluff Co., Turlock, Calif. Filed Dec. 6, 1933.



The expressions "Cheese" and "The Health Food" is disclaimed apart from the other features of the mark shown.

For Prepared Breakfast Food Composed of Cheese and Cereal.

Claims use since June 30, 1933.

Ser. No. 344,823. WESTERN BAKERIES CORPORATION, LTD., Los Angeles, Calif. Filed Dec. 11, 1933.



The picture is fanciful.

For Bread.

Claims use since July 17, 1930.

CLASS 47

Wines

Ser. No. 342,118. VINTAGE IMPORTATIONS INC., New York, N. Y. Filed Oct. 2, 1933.



The abbreviation "N. Y." on the drawing is disclaimed apart from the mark as shown.

For Wines.

Claims use since July 1, 1933.

Ser. No. 343,008. ROBIN FILS & CIE, New York, N. Y. Filed Oct. 28, 1933.



No claim is made to the words "Dry" and "Epernay". The drawing is lined for red.

For Champagne.

Claims use since Sept. 28, 1933.

Ser. No. 343,009. ROBIN FILS & CIE, New York, N. Y. Filed Oct. 28, 1933.

Dry Imperator

Robin fils & Cie
Epernay

No claim is made to any of the words on the drawing with the exception of the word "Imperator".

For Champagne.

Claims use since Sept. 28, 1933.

Ser. No. 343,065. ETABLISSEMENTS NICOLAS, Charenton-le-Pont, France. Filed Oct. 31, 1933. Under 10-year proviso.

NICOLAS

For Wines.

Claims use since 1822.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 343,066. ETABLISSEMENTS NICOLAS, Charenton-le-Pont, France. Filed Oct. 31, 1933.



For Wines.

Claims use since 1928.

Ser. No. 343,067. ETABLISSEMENTS NICOLAS, Charenton-le-Pont, France. Filed Oct. 31, 1933.

ROCHES COTIÈRES

For Wines.

Claims use since 1930.

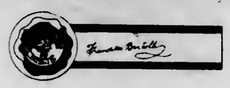
Ser. No. 343,343. CARLO FRANCHETTI, doing business as Cantine Dei Baroni Franchetti, Capraia, Italy. Filed Nov. 7, 1933.

B. I. B.

For Wines.

Claims use since June, 1932.

Ser. No. 344,102. ERCOLE H. LOCATELLI, doing business as Mattia Locatelli, New York, N. Y. Filed Nov. 24, 1933.





No claim is made to the words "Old Chianti Wine", "Chianti", and "Castellina in Chianti". The signature on the drawing is a facsimile of applicant's predecessor.

For Wine.

Claims use since 1890.

Ser. No. 344,326. EDOUARD MARC DANIEL HIRSCH, Paris, France. Filed Dec. 1, 1933.

AMERICAN FLAG

For Wines and Champagnes.

Claims use since Oct. 10, 1933.

Ser. No. 344,496. JACQUES JOSEPH MARIE BOLLINGER, Ay, France. Filed Dec. 6, 1933. Under 10-year proviso.



Dry Extra Quality

Renaudin Bollinger & Co
Ay-Champagne
FRANCE

For Champagne Wines.

Claims use since 1883.

Ser. No. 344,497. JACQUES JOSEPH MARIE BOLLINGER, Ay, France. Filed Dec. 6, 1933. Under 10-year proviso.





For Champagne Wines.

Claims use since 1883.

Ser. No. 344,498. JACQUES JOSEPH MARIE BOLLINGER, Ay, France. Filed Dec. 6, 1933. Under 10-year proviso.



For Champagne Wines

Claims use since 1883.

Ser. No. 344,547. ABRAHAM H. PRAGER, doing business as California Winery, Newark, N. J. Filed Dec. 6, 1933.

AHP

Golden State

No claim is made to the words "Golden State" apart from the mark shown.
For Wines.
Claims use since Nov. 1, 1933.

Ser. No. 345,222. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Dec. 21, 1933.

GONZALEZ



"PORT IN SIGHT"

The portrait on the drawing is fanciful. No claim is made to the word "Port" apart from the mark shown.
For Wines.
Claims use since 1912.

Ser. No. 345,403. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Dec. 27, 1933.

GONZALEZ

"PALACIO"

For Wines.
Claims use since 1900.

Ser. No. 345,404. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Dec. 27, 1933.

GONZALEZ
VINA AMOROSA

For Wines.
Claims use since 1900.

Ser. No. 345,430. R. H. MACY & CO., INC., New York, N. Y. Filed Dec. 28, 1933.

YORK HOUSE

For Wines.
Claims use since Dec. 1, 1933.

Ser. No. 345,493. JOHN BARDENHEIER WINE & LIQUOR CO., St. Louis, Mo. Filed Dec. 30, 1933.

Caladina

For Wines.
Claims use since Apr. 24, 1912.

Ser. No. 345,613. E. L. SPELLMAN CO. INC., Hoboken, N. J. Filed Jan. 3, 1934. Under 10-year proviso.

BARTON

For Wine.
Claims use since 1880.

Ser. No. 345,698. BLOOMINGDALE BROS., INC., New York, N. Y. Filed Jan. 6, 1934.

Declaration

For Sherry, Claret, and Port Wines.
Claims use since Dec. 28, 1933.

Ser. No. 345,708. CONNECTICUT WINE CO., INC., New Haven, Conn. Filed Jan. 6, 1934.

NECTAR

No claim is made to the word "Nectar" apart from the mark shown.
For Wines.
Claims use since Oct. 15, 1933.

CLASS 48

Malt Beverages and Liquors

Ser. No. 344,901. GENERAL WINES & SPIRITS CORPORATION, Dover, Del., and New York, N. Y. Filed Dec. 13, 1933.



For Ale, Beer, Porter, and Stout.
Claims use since Dec. 6, 1933.

Ser. No. 344,971. FONTENELLE BREWING COMPANY, Omaha, Nebr. Filed Dec. 15, 1933.

ROBIN HOOD BEER

No claim is made to the word "Beer".
For Beer.
Claims use since Dec. 12, 1933.

Ser. No. 345,343. MOLSON'S BREWERY LIMITED, Montreal, Quebec, Canada. Filed Dec. 26, 1933. Under 10-year proviso.





For Beer, Ale, Lager, Porter, and Stout.
Claims use since 1863.

Ser. No. 345,344. MOLSON'S BREWERY LIMITED, Montreal, Quebec, Canada. Filed Dec. 26, 1933. Under 10-year proviso.





For Beer, Ale, Lager, Porter, and Stout.
Claims use since 1863.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 342,089. W. L. WELLER & SONS, INC., Louisville, Ky. Filed Oct. 2, 1933.

OLD CABIN STILL

No claim is made to the word "Still" apart from the mark shown.
For Whiskies.
Claims use since 1925.

Ser. No. 342,882. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Oct. 25, 1933.

Embassy Club Whisky

No claim is made to the words "Whisky" and "Club" apart from the mark as shown.
For Whisky.
Claims use since Oct. 11, 1933.

Ser. No. 342,943. CHARLES A. DOSCHER, doing business as Eagle Wine and Liquor Co., Rochester, N. Y. Filed Oct. 26, 1933.

KENTUCKY ROSE



For Whisky.
Claims use since 1914.

Ser. No. 343,016. BAIRD-DANIELS CO., INC., New York, N. Y. Filed Oct. 27, 1933.

BLUE WING

For Gin.
Claims use since Sept. 26, 1933.

Ser. No. 343,017. BAIRD-DANIELS CO., INC., New York, N. Y. Filed Oct. 27, 1933.

HURDLE BRAND

No claim is made to the word "Brand."
For Gin.
Claims use since Sept. 26, 1933.

Ser. No. 343,019. BAIRD-DANIELS CO., INC., New York, N. Y. Filed Oct. 27, 1933.

OOM PAUL

"Oom Paul" is the name of the late president of the South African Republic.
For Gin.
Claims use since Sept. 26, 1933.

Ser. No. 343,063. ETABLISSEMENTS NICOLAS, Charenton-le-Pont, France. Filed Oct. 31, 1933. Under 10-year proviso.

NICOLAS

For Whisky, Brandy, and Other Potable Distilled Alcoholic Liquors.
Claims use since 1822.

Ser. No. 343,064. ETABLISSEMENTS NICOLAS, Charenton-le-Pont, France. Filed Oct. 31, 1933.



For Whisky, Brandy, and Other Potable Distilled Alcoholic Liquors.
Claims use since 1928.

Ser. No. 343,345. C. H. GRAVES & SONS COMPANY, Boston, Mass. Filed Nov. 7, 1933.

THE JUDGES FAVORITE



For Whiskey and Other Potable Distilled and Spirituous Liquors.
Claims use since Sept. 20, 1895.

Ser. No. 343,347. C. H. GRAVES & SONS COMPANY, Boston, Mass. Filed Nov. 7, 1933.

UNION LEAGUE CLUB



The word "Club" is disclaimed apart from use thereof as shown on the drawing.
For Whiskey and Other Potable Distilled and Spirituous Liquors.
Claims use since July 8, 1898.

Ser. No. 343,747. SOCIETE ANONYME DES PRODUITS MARNIER-LAPOSTOLLE, Paris, France. Filed Nov. 16, 1933.



No claim is made to the wording shown on the drawing with the exception of "Marnier-Lapostolle", "Grand Marnier", and "J. B. Lapostolle", nor to the container or outline of the labels per se.
For Cherry Cognac.
Claims use since Aug. 9, 1933.

Ser. No. 343,748. SOCIETE ANONYME DES PRODUITS MARNIER-LAPOSTOLLE, Paris, France. Filed Nov. 16, 1933. Under 10-year proviso.



For Distilled Liquor of the Class Known as Cordials.
Claims use since 1860.

Ser. No. 343,783. MONTREAL PRODUCTS COMPANY, LIMITED, Montreal, Quebec, Canada. Filed Nov. 17, 1933.

Campbell's Pride of Edinburgh

For Scotch Whiskey.
Claims use since Aug. 20, 1927.

Ser. No. 343,963. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Envoy Club

The word "Club" is disclaimed apart from the mark shown.
For Whiskey, Gin, Rum, Rye, Brandy, Cordials, and Other Potable Distilled Alcoholic Beverages.
Claims use since Nov. 17, 1933.

Ser. No. 343,972. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Nov. 22, 1933.

Planters Club

The word "Club" is disclaimed apart from the mark shown.
For Whiskey, Gin, Rum, Rye, Brandy, Cordials, and Other Potable Distilled Alcoholic Beverages.
Claims use since Nov. 17, 1933.

Ser. No. 344,027. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 22, 1933.

OLD STONEWALL

For Whiskey.
Claims use since May 1, 1930.

Ser. No. 344,028. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 22, 1933.

PAUL REVERE

For Whiskey, Gin, and Rum.
Claims use since Sept. 15, 1930.

Ser. No. 344,058. JACOB G. KINSEY, Philadelphia, Pa. Filed Nov. 23, 1933. Under 10-year proviso.

KINSEY

For Whiskey.
Claims use since Nov. 5, 1892.

Ser. No. 344,405. THE J. KRAMER COMPANY, INC., New York, N. Y. Filed Dec. 2, 1933.

ELKFIELD CLUB



The word "Club" is disclaimed apart from the mark on the drawing.

For Gin, Whiskey, and Other Distilled and Spirituous Liquors.

Claims use since 1912.

Ser. No. 344,486. THE GEO. T. STAGG CO., Frankfort, Ky. Filed Dec. 5, 1933.

Sunbeam

For Whiskey and Other Potable Distilled Spirits.

Claims use since April, 1893.

Ser. No. 344,598. N. V. NEDERLANDSCHE GIST- EN SPIRITUSFABRIEK, doing business as Netherlands Distilleries, also as E. Kiderlen, and also as Netherlands Steam Distillery Company Ltd., Delft and Schiedam, Netherlands. Filed Dec. 7, 1933.



No claim is made to the exclusive use of the words "Finest Geneva".

For Gins, Including Geneva, Schnapps, and Old Liqueur Schiedam.

Claims use since June 27, 1906.

Ser. No. 344,599. N. V. NEDERLANDSCHE GIST- EN SPIRITUSFABRIEK, doing business as Netherlands Distilleries, also as E. Kiderlen, and also as Netherlands Steam Distillery Company Ltd., Delft and Schiedam, Netherlands. Filed Dec. 7, 1933.



For Gins, Including Geneva, Schnapps, and Old Liqueur Schiedam.

Claims use since June 24, 1895.

Ser. No. 344,600. NAAMLOOZE VENNOOTSCHAP BOLL & DUNLOP'S DISTILLEERDERIJ, doing business as Boll & Dunlop's Distillery, Schiedam, Netherlands. Filed Dec. 7, 1933.

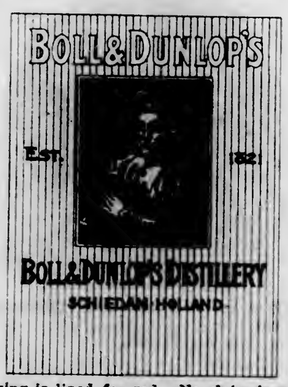


The portrait shown is that of Jacobus Bartholomeus Boll, the founder of applicant. No claim is made to the exclusive use of the words "Real Holland".

For Gins, Including Geneva, Schnapps, and Old Liqueur Schiedam.

Claims use since Nov. 3, 1922.

Ser. No. 344,601. NAAMLOOZE VENNOOTSCHAP BOLL & DUNLOP'S DISTILLEERDERIJ, doing business as Boll & Dunlop's Distillery, Schiedam, Netherlands. Filed Dec. 7, 1933.



The drawing is lined for red. No claim is made to the exclusive use of the words "Schiedam-Holland." The portrait shown is that of Jacobus Bartholomeus Boll, the founder of applicant.

For Gins, Including Geneva, Schnapps, and Old Liqueur Schiedam.

Claims use since Aug. 1, 1905.

Ser. No. 344,657. LEVY & FRANKS LIMITED, London, England. Filed Dec. 8, 1933.



All rights to the use of the words "Scotch Whisky" are hereby disclaimed.

For Scotch Whisky.

Claims use since Nov. 17, 1926.

Ser. No. 344,702. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Dec. 9, 1933.

Aristocrat

For Whiskey, Gin, Rum, Brandy, Alcoholic Cordials, and Other Potable Distilled Spirituous Beverages.

Claims use since Nov. 17, 1933.

Ser. No. 344,703. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Dec. 9, 1933.

Bonnie Lassie

For Whiskey, Gin, Rum, Brandy, Alcoholic Cordials, and Other Potable Distilled Spirituous Beverages.

Claims use since Nov. 17, 1933.

Ser. No. 344,704. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Dec. 9, 1933.

Captain Kidd

For Whiskey, Gin, Rum, Brandy, Alcoholic Cordials, and Other Potable Distilled Spirituous Beverages.

Claims use since Nov. 17, 1933.

Ser. No. 344,705. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Dec. 9, 1933.

Conqueror

For Whiskey, Gin, Rum, Brandy, Alcoholic Cordials, and Other Potable Distilled Spirituous Beverages.

Claims use since Nov. 17, 1933.

Ser. No. 344,706. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Dec. 9, 1933.

Diplomat

For Whiskey, Gin, Rum, Brandy, Alcoholic Cordials, and Other Potable Distilled Spirituous Beverages.

Claims use since Nov. 17, 1933.

Ser. No. 344,707. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Dec. 9, 1933.

Full Back

For Whiskey, Gin, Rum, Brandy, Alcoholic Cordials, and Other Potable Distilled Spirituous Beverages.

Claims use since Nov. 17, 1933.

Ser. No. 344,708. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed Dec. 9, 1933.

Quarterback

For Whiskey, Gin, Rum, Brandy, Alcoholic Cordials, and Other Potable Distilled Spirituous Beverages.

Claims use since Nov. 17, 1933.

Ser. No. 344,709. CONTINENTAL DISTILLING CORPORATION Philadelphia, Pa. Filed Dec. 9, 1933.

Sweepstakes

For Whiskey, Gin, Rum, Brandy, Alcoholic Cordials, and Other Potable Distilled Spirituous Beverages.

Claims use since Nov. 17, 1933.

Ser. No. 344,720. C. H. GRAVES & SONS COMPANY, Boston, Mass. Filed Dec. 9, 1933.



For Gin and Other Potable Distilled Alcoholic Liquors.

Claims use since Nov. 22, 1933.

Ser. No. 344,741. EDWARD YOUNG & CO., LIMITED, London, England. Filed Dec. 9, 1933.

DIRECTOR

For Whisky.
Claims use since 1922.

Ser. No. 344,773. ETABLISSEMENTS HENRI QUENOT, VVE COLLETTE, SUCCESSEUR, Dijon, France. Filed Dec. 11, 1933.

CHAIS BOURGUIGNONS

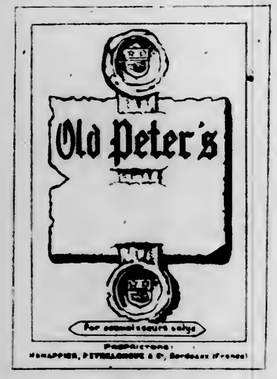
For Alcoholic Cordials.
Claims use since June 12, 1924.

Ser. No. 344,777. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Dec. 11, 1933.



No claim is made to the representation of the label.
For Whiskey and Other Potable Distilled Liquors.
Claims use since 1882.

Ser. No. 344,783. HANAPPIER PEYRELONGUE & CIE, Bordeaux, France. Filed Dec. 11, 1933.



The representation of the label is disclaimed and all the wording herein is disclaimed apart from the words "Old Peter's".
For Dry Gin.
Claims use since July, 1922.

Ser. No. 344,833. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 12, 1933.



The lining in the drawing merely represents shading.
For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,872. SOCIETE ANONYME DE LA GRANDE DISTILLERIE E. CUSENIER FILS AINE & CIE, Paris, France. Filed Dec. 12, 1933. Under 10-year proviso.

CUSENIER

For Brandies, Cordials, and Other Potable Liquors.
Claims use since July 14, 1879.

Ser. No. 344,907. INTERNATIONAL IMPORTING CORP., New York, N. Y. Filed Dec. 13, 1933.



The drawing is lined for green and gold. The words "Dublin Whiskey" are disclaimed apart from the other features of the mark shown.
For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,959. JOSEPH C. YOCHIM, New Orleans, La. Filed Dec. 14, 1933. Under 10-year proviso.



For Gins, Rum, and Alcoholic Cordials and Liqueurs.
Claims use since November, 1893.

Ser. No. 345,058. KABUSHIKI-KAISHA KOTOBUKIYA, Osaka, Japan. Filed Dec. 18, 1933.



For Whisky, Gin, Brandy, and Rum.
Claims use since November, 1929.

Ser. No. 345,061. KOLMAR, INC., Cincinnati, Ohio. Filed Dec. 18, 1933.



For Whiskey, Brandy, Gin, Rum, and Other Potable Distilled Spirits.
Claims use since Dec. 6, 1933.

Ser. No. 345,076. SHIMOLA & COMPANY, Cleveland, Ohio. Filed Dec. 18, 1933.



For Whiskey, Gin, Rum, Distilled Spirits, and Other Potable Alcoholic Liquors.
Claims use since Dec. 5, 1933.

Ser. No. 345,078. SONTAG CHAIN STORES CO. LTD., doing business as Cedar Arms Distributing Co., Los Angeles, Calif. Filed Dec. 18, 1933.

CEDAR ARMS

For Whiskey.
Claims use since Nov. 22, 1933.

Ser. No. 345,079. SONTAG CHAIN STORES CO. LTD., doing business as Cedar Cliff Distributing Co., Los Angeles, Calif. Filed Dec. 18, 1933.

CEDAR CLIFF

For Whiskey.
Claims use since Nov. 22, 1933.

Ser. No. 345,081. SONTAG CHAIN STORES CO. LTD., doing business as Glenarm Distributing Co., Los Angeles, Calif. Filed Dec. 18, 1933.

GLENARM

For Whiskey.
Claims use since Nov. 22, 1933.

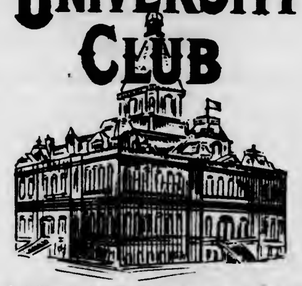
Ser. No. 345,082. SONTAG CHAIN STORES CO. LTD., doing business as Lou Belle Distributing Co., Los Angeles, Calif. Filed Dec. 18, 1933.

LOU BELLE

For Whiskey.
Claims use since Nov. 22, 1933.

Ser. No. 345,096. PHILIP BLUM & COMPANY, INC., Chicago, Ill. Filed Dec. 19, 1933.

UNIVERSITY CLUB



The word "Club" is disclaimed apart from the mark as shown.
For Whiskey, Gin, Rum, Brandy and Other Potable Distilled Spirits.
Claims use since January, 1921.

Ser. No. 345,097. SIR ROBERT BURNETT & CO. LIMITED, London, England. Filed Dec. 19, 1933. Under 10-year proviso.

BURNETT'S

For Gin, Brandy, Whiskey, and Other Potable Spirits.
Claims use since 1885.

Ser. No. 345,152. JOS. S. FINCH & COMPANY, New York N. Y. Filed Dec. 20, 1933.

Glenarme

For Whiskey and Other Potable Distilled Spirits.
Claims use since July, 1924.

Ser. No. 345,683. SHIMOLA & COMPANY, Cleveland, Ohio. Filed Jan. 5, 1934.

Aristocrat High Life

For Whiskey, Gin, Rum, Distilled Spirits, and Other Potable Alcoholic Liquors.
Claims use since Dec. 5, 1933.

Ser. No. 345,685. E. L. SPELLMAN CO. INC., Hoboken, N. J. Filed Jan. 5, 1934.

MAN-O-WAR

For Whiskey.
Claims use since 1900.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 339,964. FRANKLIN FIBRE-LAMITEX CORP., Wilmington, Del. Filed July 21, 1933.

FRANKLIN LAMITEX



The words "Phenol Fibre" are disclaimed apart from the mark shown.
For Laminated Phenol Fibre.
Claims use since July 1, 1933.

Ser. No. 341,485. MEMORIAL GRASS COMPANY, Cleveland, Ohio. Filed Sept. 11, 1933.

ETERNAGREEN

The drawing is lined for green. The representation of the grave set is disclaimed apart from the mark shown.
For Artificial Grass Grave Sets.
Claims use since Aug. 20, 1932.

Ser. No. 341,872. OTTO NEUMANN, Prague XII, Czechoslovakia. Filed Sept. 25, 1933.

MESCIRON

For Fly Catchers.
Claims use since December, 1931.

Ser. No. 344,647. JOHN A. HARRISS, New York, N. Y. Filed Dec. 8, 1933.



For Pedestrian-Vehicular Street and Highway Markers for Safety Zones and the Like.
Claims use since Nov. 22, 1933.

Ser. No. 345,048. COLUMBUS COATED FABRICS CORPORATION, Columbus, Ohio. Filed Dec. 18, 1933.

SATIN-GLO

For Pyroxylin Coated Fabrics.
Claims use since Dec. 30, 1932.

Ser. No. 345,301. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Dec. 23, 1933.

SOFTEX

For Waterproofed Sheetings and Fabrics in the Piece.
Claims use since June, 1931.

Ser. No. 345,415. DAVIS & SHARP, Beverly Hills, Calif. Filed Dec. 28, 1933.

TENDO

For Strings or Strands Suitable for Uses in the Arts Wherein Catgut Strings are Now Employed.
Claims use since Dec. 5, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

FEBRUARY 13, 1934

310,045. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SCHEIN BROTHERS, INC., New York, N. Y.
Filed October 12, 1933. Serial No. 342,407. PUBLISHED DECEMBER 5, 1933. Class 28.

310,046. PERIODICALS. RICHARD D. WYCKOFF, New York, N. Y.
Filed October 12, 1933. Serial No. 342,419. PUBLISHED NOVEMBER 28, 1933. Class 38.

310,047. WHISKEY. JUILLARD, INCORPORATED, San Francisco, Calif.
Filed October 13, 1933. Serial No. 342,439. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,048. WHISKEY. JUILLARD, INCORPORATED, San Francisco, Calif.
Filed October 13, 1933. Serial No. 342,442. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,049. WHISKY. JOHN DEWAR & SONS LIMITED, Perth, Scotland, and London, England.
Filed October 11, 1933. Serial No. 342,341. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,050. UNDERWEAR FOR CHILDREN, MISSES, AND WOMEN. M. G. VAN ARSDALE, INC., New York, N. Y.
Filed October 11, 1933. Serial No. 342,369. PUBLISHED DECEMBER 5, 1933. Class 39.

310,051. STUFFED TOY FIGURE. RICHARD H. WOLLBERG, Warren Township, Mich.
Filed October 11, 1933. Serial No. 342,371. PUBLISHED DECEMBER 5, 1933. Class 22.

310,052. RAZOR BLADES. YALE DRUG CO., INC., New York, N. Y.
Filed October 11, 1933. Serial No. 342,372. PUBLISHED NOVEMBER 28, 1933. Class 23.

310,053. CHILDREN'S ROMPERS, CREEPERS; BOYS' SUITS; CHILDREN'S COATS, LEGGING SETS; LEGGINS; AND GIRLS' SKIRTS AND BLOUSES. MAX CITRIN, New York, N. Y.
Filed October 12, 1933. Serial No. 342,387. PUBLISHED DECEMBER 5, 1933. Class 39.

310,054. MEN'S AND BOYS' WORK, NEGLIGEE, AND DRESS SHIRTS, PAJAMAS AND UNDERWEAR; WOMEN'S PAJAMAS; UNDERGARMENTS—NAMELY, BLOOMERS, VESTS, BANDEAUX, CHEMISE, PETTICOATS, SHORTS, SHIRTS, PANTIES, AND STEPINS (DRAWERS); DRESSES, BLOUSES, AND WAISTS. FRANK I. DENISON & CO., INC., New York, N. Y.
Filed October 12, 1933. Serial No. 342,389. PUBLISHED DECEMBER 5, 1933. Class 39.

310,055. STORAGE BATTERIES. MONARK BATTERY COMPANY, INC., Chicago, Ill.
Filed October 12, 1933. Serial No. 342,397. PUBLISHED NOVEMBER 28, 1933. Class 21.

310,056. LUBRICATING OILS AND GREASES. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa.
Filed October 12, 1933. Serial No. 342,402. PUBLISHED NOVEMBER 21, 1933. Class 15.

310,057. GIN. JOHN DE KUYPER & SON, Rotterdam, Netherlands.
Filed October 21, 1933. Serial No. 342,742. PUBLISHED DECEMBER 5, 1933. Class 49.

310,058. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. CONSOLIDATED DISTILLERIES, LIMITED, Montreal, Quebec, Canada.
Filed October 21, 1933. Serial No. 342,732. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,059. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. CONSOLIDATED DISTILLERIES, LIMITED, Montreal, Quebec, Canada.
Filed October 21, 1933. Serial No. 342,731. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,060. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky.
Filed October 21, 1933. Serial No. 342,722. PUBLISHED DECEMBER 5, 1933. Class 49.

310,061. NOURISHING CREAM. MARIATTA SPECIALE, doing business as Aridus Products, Brooklyn, N. Y.
Filed October 20, 1933. Serial No. 342,709. PUBLISHED DECEMBER 5, 1933. Class 6.

310,062. LUBRICATING OILS. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa.
Filed October 19, 1933. Serial No. 342,681. PUBLISHED DECEMBER 5, 1933. Class 15.

310,063. SALAD DRESSING AND SANDWICH SPREAD. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed October 19, 1933. Serial No. 342,673. PUBLISHED DECEMBER 5, 1933. Class 46.

310,064. ANIMAL, VEGETABLE, AND MINERAL LUBRICATING OILS. SCHLIEMANN COMPANIES, INC., New York, N. Y.
Filed October 19, 1933. Serial No. 342,670. PUBLISHED DECEMBER 5, 1933. Class 15.

310,065. GIN, WHISKY, BRANDY, AND RUM. CHARLES KINLOCH & CO. LIMITED, London, England.
Filed October 19, 1933. Serial No. 342,652. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,066. EYE LOTION. SEBASTIAN CONTINI CO., Sacramento, Calif.
Filed October 18, 1933. Serial No. 342,624. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,067. ARTIFICIAL DENTURE CLEANSERS. THE PHILLIPS & BENJAMIN COMPANY, Boston, Mass.
Filed October 18, 1933. Serial No. 342,620. PUBLISHED DECEMBER 5, 1933. Class 4.

310,068. HOUSEHOLD AND KITCHEN UTENSILS MADE OF ALUMINUM, OR PRINCIPALLY OF ALUMINUM, ETC. MANUFACTURE METALLURGIQUE DE TOURNUS, Tournus, France.
Filed October 18, 1933. Serial No. 342,616. PUBLISHED DECEMBER 5, 1933. Class 13.

310,069. DISTILLED ALCOHOLIC CORDIALS AND COCKTAILS. CHARLES M. GOODWIN, SR., Washington, D. C.
Filed October 18, 1933. Serial No. 342,613. PUBLISHED DECEMBER 5, 1933. Class 49.

310,070. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky.
Filed October 18, 1933. Serial No. 342,608. PUBLISHED DECEMBER 5, 1933. Class 49.

310,071. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky.
Filed October 18, 1933. Serial No. 342,607. PUBLISHED DECEMBER 5, 1933. Class 49.

310,072. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky.
Filed October 18, 1933. Serial No. 342,606. PUBLISHED DECEMBER 5, 1933. Class 49.

310,073. COMIC STRIP. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed October 4, 1933. Serial No. 342,145. PUBLISHED NOVEMBER 28, 1933. Class 38.

310,074. WHISKEY. FRANK C. REILLY, New York, N. Y. Filed October 3, 1933. Serial No. 342,112. PUBLISHED DECEMBER 5, 1933. Class 49.

310,075. GIN. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed October 3, 1933. Serial No. 342,106. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,076. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed October 3, 1933. Serial No. 342,105. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,077. LUBRICATING OIL COMPOUNDS. EDWARD A. WILLSON, doing business as Grafo Lubricating Company, Sharon, Pa. Filed September 30, 1933. Serial No. 342,094. PUBLISHED NOVEMBER 28, 1933. Class 15.

310,078. WHISKIES. W. L. WELLER & SONS, Louisville, Ky. Filed October 2, 1933. Serial No. 342,092. PUBLISHED DECEMBER 5, 1933. Class 49.

310,079. WHISKIES. W. L. WELLER & SONS, Louisville, Ky. Filed October 2, 1933. Serial No. 342,091. PUBLISHED DECEMBER 5, 1933. Class 49.

310,080. WHISKIES. W. L. WELLER & SONS, Louisville, Ky. Filed October 2, 1933. Serial No. 342,088. PUBLISHED DECEMBER 5, 1933. Class 49.

310,081. CHART, TABLE, AND/OR COLUMN APPEARING REGULARLY, EXCEPT SUNDAYS, IN THE WASHINGTON POST, A NEWSPAPER PUBLISHED BY IT. THE WASHINGTON POST PUBLISHING COMPANY, Washington, D. C. Filed October 2, 1933. Serial No. 342,087. PUBLISHED NOVEMBER 28, 1933. Class 38.

310,082. LUBRICATING OILS AND GREASES. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa. Filed October 2, 1933. Serial No. 342,078. PUBLISHED NOVEMBER 21, 1933. Class 15.

310,083. INSECTICIDES. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed October 2, 1933. Serial No. 342,080. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,084. WHISKEY. DOWLING BROS., DISTILLING CO., INC., Burgin, Ky. Filed October 2, 1933. Serial No. 342,069. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,085. WHISKY. CHIVAS BROTHERS, Aberdeen, Scotland. Filed October 2, 1933. Serial No. 342,064. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,086. CORDIALS AND BRANDIES AND OTHER POTABLE DISTILLED SPIRITS. CALIFRUIT WINERIES, INC., New York, N. Y. Filed October 2, 1933. Serial No. 342,063. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,087. WHISKEY, BRANDY, GIN, AND/OR OTHER POTABLE DISTILLED SPIRITS. CALIFRUIT WINERIES, INC., New York, N. Y. Filed October 2, 1933. Serial No. 342,062. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,088. KNITTED UNDERWEAR FOR WOMEN, GIRLS, AND CHILDREN. VAN RAALTE COMPANY, New York, N. Y. Filed September 28, 1933. Serial No. 341,993. PUBLISHED DECEMBER 5, 1933. Class 39.

310,089. PLAYING CARDS. MARJORIE BARKENTIN, New York, N. Y. Filed September 30, 1933. Serial No. 341,991. PUBLISHED DECEMBER 5, 1933. Class 22.

310,090. DYES. SANDOZ CHEMICAL WORKS, INC., New York, N. Y. Filed September 28, 1933. Serial No. 341,988. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,091. POLISH MOPS. W. T. GRANT COMPANY, New York, N. Y. Filed September 28, 1933. Serial No. 341,960. PUBLISHED DECEMBER 5, 1933. Class 29.

310,092. PHARMACEUTICAL PREPARATION, BEING A CARDIOTONIC AND DIURETIC. SANDOZ CHEMICAL WORKS, INC., New York, N. Y. Filed September 28, 1933. Serial No. 341,987. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,093. WHISKEY AND GIN. HILL, THOMSON & CO., Edinburgh, Scotland, and London, England. Filed September 28, 1933. Serial No. 341,970. PUBLISHED DECEMBER 5, 1933. Class 49.

310,094. AUTO TUBE REPAIR KITS AND AUTO TUBE PATCHES. W. T. GRANT COMPANY, New York, N. Y. Filed September 28, 1933. Serial No. 341,966. PUBLISHED DECEMBER 5, 1933. Class 35.

310,095. PERFUME OILS DESIGNED TO BE USED IN CONJUNCTION WITH KEROSENE FLY SPRAYS IN ORDER TO COVER UP THE ODOR OF KEROSENE. FELTON CHEMICAL COMPANY, INC., Brooklyn, N. Y. Filed September 28, 1933. Serial No. 341,954. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,096. WHISKY. CORK DISTILLERIES COMPANY LIMITED, Morrison's Island, Cork, Ireland. Filed September 28, 1933. Serial No. 341,951. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,097. LUBRICATING OILS AND GREASES. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa. Filed October 26, 1933. Serial No. 342,951. PUBLISHED DECEMBER 5, 1933. Class 15.

310,098. MEASURING FAUCETS. THE BEEROMETER CO., St. Louis, Mo. Filed October 16, 1933. Serial No. 342,516. PUBLISHED DECEMBER 5, 1933. Class 26.

310,099. BRANDY, GIN, WHISKEY, AND OTHER POTABLE DISTILLED SPIRITS. UNITED DISTILLERS CORPORATION, New York, N. Y. Filed October 14, 1933. Serial No. 342,497. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,100. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. THE GEO. T. STAGG CO., Frankfort, Ky. Filed October 14, 1933. Serial No. 342,495. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,101. KITS FOR THE CONSTRUCTION OF RADIO RECEIVING SETS. NESTONE RADIO CO., New York, N. Y. Filed October 14, 1933. Serial No. 342,486. PUBLISHED DECEMBER 5, 1933. Class 21.

310,102. ETCHING FLUIDS. METALINK CO., New York, N. Y. Filed October 14, 1933. Serial No. 342,484. PUBLISHED DECEMBER 5, 1933. Class 6.

310,103. ILLUSTRATED STORIES OR FOR THE INDIVIDUAL EPISODES THEREOF AS PUBLISHED IN A CONTINUING SERIES IN NEWSPAPERS. WALTER E. SCOTT, Rocky River, Ohio. Filed October 13, 1933. Serial No. 342,456. PUBLISHED NOVEMBER 28, 1933. Class 38.

310,104. LUBRICATING OILS, LUBRICATING OIL COMPOSITIONS, AND LUBRICATING GREASES. NEW YORK & NEW JERSEY LUBRICANT COMPANY, New York, N. Y. Filed October 16, 1933. Serial No. 342,548. PUBLISHED DECEMBER 5, 1933. Class 15.

310,105. WHISKEY. R. H. MACY & CO., INC., New York, N. Y. Filed October 16, 1933. Serial No. 342,544. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,106. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. JOS. S. FINCH & COMPANY, New York, N. Y. Filed October 16, 1933. Serial No. 342,532. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,107. GASOLINE. BRAGO PETROLEUM CORPORATION, New York, N. Y. Filed September 30, 1933. Serial No. 342,026. PUBLISHED NOVEMBER 21, 1933. Class 15.

310,108. FIELD GLASSES, TELESCOPES, OBJECTIVE LENSES, APPARATUS FOR PROJECTING IMAGES OF TRANSPARENT AND/OR OPAQUE OBJECTS AND OPHTHALMIC INSTRUMENT STANDS. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed September 30, 1933. Serial No. 342,025. PUBLISHED DECEMBER 5, 1933. Class 26.

310,109. LADIES' AND MISSES' DRESSES. SIGMUND SPIELBERGER, New York, N. Y. Filed October 17, 1933. Serial No. 342,595. PUBLISHED DECEMBER 5, 1933. Class 39.

310,110. MATE TEA. JAMES A. SMITH, New York, N. Y. Filed October 17, 1933. Serial No. 342,594. PUBLISHED DECEMBER 5, 1933. Class 46.

310,111. LUBRICATING OILS AND GREASES. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa. Filed October 17, 1933. Serial No. 342,592. PUBLISHED NOVEMBER 21, 1933. Class 15.

310,112. LUBRICATING OILS AND GREASES. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa. Filed October 17, 1933. Serial No. 342,591. PUBLISHED NOVEMBER 21, 1933. Class 15.

310,113. WHISKY. J. & J. MCCONNELL, LIMITED, Belfast, Ireland, and London, England. Filed October 17, 1933. Serial No. 342,590. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,114. WHISKY. JAMES L. DENMAN & CO., LIMITED, London, England. Filed October 17, 1933. Serial No. 342,581. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,115. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed October 17, 1933. Serial No. 342,563. PUBLISHED DECEMBER 5, 1933. Class 49.

310,116. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. THE GEO. T. STAGG CO., Frankfort, Ky. Filed October 16, 1933. Serial No. 342,555. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,117. RADIO TUNING DIALS, RADIO RECEIVING SETS AND PARTS THEREOF. LOUIS MANDEL, doing business as Tune-O-Matic Radio Co., Chicago, Ill. Filed September 30, 1933. Serial No. 342,036. PUBLISHED NOVEMBER 28, 1933. Class 21.

310,118. WHISKEY. PHILADELPHIA PURE RYE WHISKEY DISTILLING COMPANY OF PENNSYLVANIA, LIMITED, Edington, Pa. Filed September 30, 1933. Serial No. 342,041. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,119. SEWING CABINET, MENDING BASKET, MAGAZINE RACK, AND SMOKE STAND COMBINATION. SPRINGVALE WOOD WORKING CO. INC., Sanford and Springvale, Sanford, Maine. Filed September 30, 1933. Serial No. 342,048. PUBLISHED NOVEMBER 28, 1933. Class 32.

310,120. RUM AND OTHER POTABLE DISTILLED LIQUORS. WINE & SPIRIT VAULTS LIMITED, London, England. Filed September 30, 1933. Serial No. 342,051. PUBLISHED DECEMBER 5, 1933. Class 49.

310,121. IGNITION COILS, REPLACEMENT IGNITION COILS, IGNITION CABLE KITS, AUTOMOBILE IGNITION TIMERS, AND STORAGE BATTERY TERMINAL CABLE SETS. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed September 30, 1933. Serial No. 342,052. PUBLISHED DECEMBER 5, 1933. Class 21.

310,122. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed October 18, 1933. Serial No. 342,603. PUBLISHED DECEMBER 5, 1933. Class 49.

310,123. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed October 18, 1933. Serial No. 342,605. PUBLISHED DECEMBER 5, 1933. Class 49.

310,124. COGNAC BRANDY. NAPA & SONOMA WINE CO., San Francisco, Calif. Filed October 27, 1933. Serial No. 342,980. PUBLISHED DECEMBER 5, 1933. Class 49.

310,125. WOOD-CUTTING TOOL FOR BRUSH CUTTING, PRUNING, TRIMMING, AND ANY GENERAL IMPROVEMENT CUTTING. H. K. PORTER, INC., Everett, Mass. Filed October 12, 1933. Serial No. 342,403. PUBLISHED DECEMBER 5, 1933. Class 23.

310,126. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SCHEIN BROTHERS, INC., New York, N. Y. Filed October 12, 1933. Serial No. 342,406. PUBLISHED DECEMBER 5, 1933. Class 28.

310,127. PERMANENT WAVE MACHINES, PADS, CURLERS, PROTECTORS, AND HEATERS FOR USE IN PERMANENT WAVE MACHINES. ERNEST BAUM, doing business as Ernest Baum Products Co., Los Angeles, Calif. Filed October 24, 1933. Serial No. 342,833. PUBLISHED DECEMBER 5, 1933. Class 44.

310,128. CHAMPAGNE WINES. JOS. KRUG, doing business as Krug & Co., Reims, France. Filed October 24, 1933. Serial No. 342,844. PUBLISHED DECEMBER 5, 1933. Class 47.

310,129. WINES. PASQUIER-DESVIGNES ET CIE., SOCIÉTÉ ANONYME, St. Lager, France. Filed October 24, 1933. Serial No. 342,849. PUBLISHED DECEMBER 5, 1933. Class 47.

310,130. LUBRICATING OILS AND LUBRICATING GREASES. HENRY FRY ADAMS, Coffeyville, Kans. Filed October 25, 1933. Serial No. 342,862. PUBLISHED DECEMBER 5, 1933. Class 15.

310,131. GIN. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa. Filed October 25, 1933. Serial No. 342,879. PUBLISHED DECEMBER 5, 1933. Class 49.

310,132. EYE LOTIONS, EYE WASHES, AND ANTISEPTICS. JOHN WYETH AND BROTHER INCORPORATED, Philadelphia, Pa. Filed October 9, 1933. Serial No. 342,296. PUBLISHED DECEMBER 5, 1933. Class 6.

310,133. EYE LOTIONS, EYE WASHES, AND ANTISEPTICS. JOHN WYETH AND BROTHER INCORPORATED, Philadelphia, Pa. Filed October 9, 1933. Serial No. 342,297. PUBLISHED DECEMBER 5, 1933. Class 6.

310,134. HEMORRHOIDAL SUPPOSITORIES. JOHN WYETH AND BROTHER INCORPORATED, Philadelphia, Pa. Filed October 9, 1933. Serial No. 342,298. PUBLISHED DECEMBER 5, 1933. Class 6.

310,135. DIGESTANT. JOHN WYETH AND BROTHER INCORPORATED, Philadelphia, Pa. Filed October 9, 1933. Serial No. 342,300. PUBLISHED DECEMBER 5, 1933. Class 6.

310,136. MOTOR LUBRICATING OILS AND LUBRICATING GREASES. WINDSOR-LLOYD PRODUCTS, INC., doing business as Booster Chemical & Engineering Co., Baltimore, Md. Filed October 10, 1933. Serial No. 342,328. PUBLISHED DECEMBER 5, 1933. Class 15.

310,137. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky. Filed October 11, 1933. Serial No. 342,331. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,138. SAFETY RAZORS AND SAFETY RAZOR BLADES. APRIS CORPORATION, Cleveland, Ohio. Filed October 11, 1933. Serial No. 342,332. PUBLISHED NOVEMBER 28, 1933. Class 23.

310,139. ELASTIC THREADS MADE WHOLLY OR PRINCIPALLY OF RUBBER. WILLIAM WARNE AND COMPANY LIMITED, Barking, England.
Filed October 7, 1933. Serial No. 342,247. PUBLISHED DECEMBER 5, 1933. Class 43.

310,140. SCOTCH WHISKY. WHITE HORSE DISTILLERS, LIMITED, Glasgow, Scotland.
Filed October 7, 1933. Serial No. 342,250. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,141. ALE. CATARACT BREWING CO., INC. OF ROCHESTER, N. Y., Rochester, N. Y.
Filed October 9, 1933. Serial No. 342,256. PUBLISHED DECEMBER 5, 1933. Class 48.

310,142. YARNS OF CELLULOSE. COURTAULDS, LIMITED, London, England.
Filed October 9, 1933. Serial No. 342,260. PUBLISHED DECEMBER 5, 1933. Class 43.

310,143. FRESH DECIDUOUS FRUITS, FRESH GRAPES, FRESH VEGETABLES. JOSEPH D'ACCARDO, doing business as Hi-Jump Fruit Co., Modesto, Calif.
Filed October 9, 1933. Serial No. 342,262. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,144. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. JOS. S. FINCH & COMPANY, New York, N. Y.
Filed October 27, 1933. Serial No. 342,970. PUBLISHED DECEMBER 5, 1933. Class 49.

310,145. LUBRICATING OILS. THE FREEDOM OIL WORKS COMPANY, Freedom, Pa.
Filed October 23, 1933. Serial No. 342,800. PUBLISHED DECEMBER 5, 1933. Class 15.

310,146. WINES. CHAPIN F. TUBBS, Calistoga, Calif.
Filed October 23, 1933. Serial No. 342,825. PUBLISHED DECEMBER 5, 1933. Class 47.

310,147. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. THE VICTOR BREWING COMPANY, Jeannette, Pa.
Filed October 23, 1933. Serial No. 342,827. PUBLISHED DECEMBER 5, 1933. Class 48.

310 148. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. THE VICTOR BREWING COMPANY, Jeannette, Pa.
Filed October 23, 1933. Serial No. 342,828. PUBLISHED DECEMBER 5, 1933. Class 48.

310,149. GIN. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa.
Filed October 25, 1933. Serial No. 342,881. PUBLISHED DECEMBER 5, 1933. Class 49.

310,150. RUM. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa.
Filed October 25, 1933. Serial No. 342,889. PUBLISHED DECEMBER 5, 1933. Class 49.

310,151. WHISKEY. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa.
Filed October 25, 1933. Serial No. 342,896. PUBLISHED DECEMBER 5, 1933. Class 49.

310,152. GIN. CONTINENTAL DISTILLING CORPORATION, Philadelphia, Pa.
Filed October 25, 1933. Serial No. 342,898. PUBLISHED DECEMBER 5, 1933. Class 49.

310,153. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. DEL MONICO WINE AND SPIRIT CORPORATION, New York, N. Y.
Filed October 25, 1933. Serial No. 342,899. PUBLISHED DECEMBER 5, 1933. Class 45.

310,154. LUBRICATING OILS. INTERCITY OIL COMPANY, Philadelphia, Pa.
Filed October 25, 1933. Serial No. 342,910. PUBLISHED DECEMBER 5, 1933. Class 15.

310,155. GIN. DONALD MCQUIVEY, New York, N. Y., assignor to Shipman & Company, New York, N. Y., a Corporation of New York.
Filed October 25, 1933. Serial No. 342,919. PUBLISHED DECEMBER 5, 1933. Class 49.

310,156. WINES. FRUIT INDUSTRIES, LTD., Los Angeles, Calif.
Filed October 26, 1933. Serial No. 342,946. PUBLISHED DECEMBER 5, 1933. Class 47.

310,157. LIQUID CHEMICAL PRODUCT USED AS A PROTECTIVE AGENT IN THE TREATMENT AND FINISHING OF TEXTILES, LEATHER, AND FUR. NYANZA COLOR & CHEMICAL CO., New York, N. Y.
Filed September 27, 1933. Serial No. 341,930. PUBLISHED DECEMBER 5, 1933. Class 6.

310,158. MUSICAL INSTRUMENTS AND MUSICAL INSTRUMENT REPAIRS AND SUPPLIES. HONEYCOMBE & SON, Madison, Wis.
Filed September 27, 1933. Serial No. 341,923. PUBLISHED NOVEMBER 21, 1933. Class 36.

310,159. TOY BUILDINGS. JOHN L. FLANNERY, doing business as Vista Toy Company, New York, N. Y.
Filed September 27, 1933. Serial No. 341,919. PUBLISHED DECEMBER 5, 1933. Class 22.

310,160. SHOW CARD INK COLORS. AULT & WIBORG CARBON & RIBBON CO., INC., Cincinnati, Ohio.
Filed September 27, 1933. Serial No. 341,910. PUBLISHED DECEMBER 5, 1933. Class 11.

310,161. STILL AND SPARKLING WINES. MME PETRISSANS, NÉE CHARLOTTE LENEVEUX, Paris, France.
Filed September 26, 1933. Serial No. 341,899. PUBLISHED DECEMBER 5, 1933. Class 47.

310,162. GLOSS REMOVING COMPOUND FOR USE IN THE TEXTILE INDUSTRY. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed October 21, 1933. Serial No. 342,766. PUBLISHED DECEMBER 5, 1933. Class 6.

310,163. MALT BEVERAGES HAVING AN ALCOHOLIC CONTENT NOT IN EXCESS OF THAT PERMITTED BY LAW, AND FOR MALT USED IN MAKING BEVERAGES. THE J. F. GIERING BOTTLING CO., doing business as The Silver Knight Ginger Ale Co., Youngstown, Ohio.
Filed October 21, 1933. Serial No. 342,754. PUBLISHED DECEMBER 5, 1933. Class 48.

310 164. WINES. ETABLISSEMENTS E. BIGEON INC., New York, N. Y.
Filed October 21, 1933. Serial No. 342,745. PUBLISHED DECEMBER 5, 1933. Class 47.

310,165. WINES. ETABLISSEMENTS E. BIGEON INC., New York, N. Y.
Filed October 21, 1933. Serial No. 342,744. PUBLISHED DECEMBER 5, 1933. Class 47.

310,166. TRANSMISSION LININGS, BRAKE LININGS, BRAKE BLOCKS, AND CLUTCH FACINGS. MULTIBESTOS COMPANY, North Cambridge, Mass.
Filed October 7, 1933. Serial No. 342,234. PUBLISHED NOVEMBER 28, 1933. Class 35.

310,167. TRANSMISSION LININGS, BRAKE LININGS, BRAKE BLOCKS, AND CLUTCH FACINGS. MULTIBESTOS COMPANY, North Cambridge, Mass.
Filed October 7, 1933. Serial No. 342,235. PUBLISHED NOVEMBER 28, 1933. Class 35.

310,168. WHISKEY. EDWARD L. MAHONEY, doing business as Edward L. Mahoney & Co., Baltimore, Md.
Filed October 7, 1933. Serial No. 342,229. PUBLISHED DECEMBER 5, 1933. Class 49.

310,169. BEER, STRONG BEER, PORTER, ALE, NONALCOHOLIC BEER, WHEAT BEER, BEER WORT, DRINK WORT, MALT BEER, BEER STUFFS, DIETETIC-HYGIENE BEER, COLORED BEER. AKTIENGESELLSCHAFT HACKERBRÄU, Munich, Germany.
Filed October 5, 1933. Serial No. 342,147. PUBLISHED DECEMBER 5, 1933. Class 48.

310,170. DRY CLEANING PREPARATIONS FOR FABRICS, LEATHER GOODS, ETC. GRIFFIN MANUFACTURING CO., INC., New York, N. Y.
Filed October 5, 1933. Serial No. 342,156. PUBLISHED DECEMBER 5, 1933. Class 4.

310,171. MONTHLY PUBLICATIONS. HAT LIFE, INC., New York, N. Y.
Filed October 5, 1933. Serial No. 342,157. PUBLISHED NOVEMBER 21, 1933. Class 38.

310,172. BOTTLE AND JAR CAPS OR CLOSURES. FERDINAND GUTMANN AND CO., Brooklyn, N. Y.
Filed October 6, 1933. Serial No. 342,180. PUBLISHED DECEMBER 5, 1933. Class 50.

310,173. COMBUSTION CHAMBERS FOR BOILERS AND FURNACES. MAY OIL BURNER CORPORATION, Baltimore, Md.
Filed October 6, 1933. Serial No. 342,189. PUBLISHED DECEMBER 5, 1933. Class 34.

310,174. RADIO ANTENNÆ. WILLIAM GENTRY SHELTON, Jr., doing business as Musicaletter Company, St. Louis, Mo.
Filed October 6, 1933. Serial No. 342,202. PUBLISHED DECEMBER 5, 1933. Class 21.

310,175. ELECTRIC MOTORS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed October 6, 1933. Serial No. 342,207. PUBLISHED NOVEMBER 28, 1933. Class 21.

310,176. MAGAZINES PUBLISHED EVERY MONTH. GRAPHIC ARTS CORPORATION, Minneapolis, Minn.
Filed October 7, 1933. Serial No. 342,217. PUBLISHED NOVEMBER 21, 1933. Class 38.

310,177. OIL-WELL TOOLS—NAMELY, PIPE AND CASING TONGS, PIPE AND CASING ELEVATORS, ELEVATOR LINKS, UNDERREAMERS, ROTARY DRIVE BUSHINGS, PUMP PISTONS, TONG DIES, TONG SUSPENSIONS, AND PARTS THEREOF. BYRON JACKSON CO., Los Angeles, Calif.
Filed June 14, 1933. Serial No. 338,831. PUBLISHED NOVEMBER 28, 1933. Class 23.

310,178. BEER WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. AKTIESELSKABET DE FORENEDE BRYGGERIER, Copenhagen, Denmark.
Filed June 23, 1933. Serial No. 339,139. PUBLISHED DECEMBER 5, 1933. Class 48.

310,179. LIQUORS—NAMELY, WHISKY, BRANDY, COGNAC, BITTERS, AND SPIRITS OF WINE. ASBACH & CO. AKTIENGESELLSCHAFT, Rudesheim-on-the-Rhine, Germany.
Filed June 26, 1933. Serial No. 339,218. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,180. LIQUORS—NAMELY, WHISKY, BRANDY, COGNAC, BITTERS, AND SPIRITS OF WINE. ASBACH & CO. AKTIENGESELLSCHAFT, Rudesheim-on-the-Rhine.
Filed June 26, 1933. Serial No. 339,219. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,181. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. WINE & SPIRIT VAULTS LIMITED, doing business as Duncan Weston & Son, London, England.
Filed June 29, 1933. Serial No. 339,374. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,182. CELLULOSE, CHEMICAL PULP, MECHANICAL PULP, SULPHITE PULP, AND SULPHATE PULP FOR USE IN THE PRODUCTION OF PASTEBOARD, CARDBOARD, AND PAPER OF ALL KINDS, ARTIFICIAL THREADS, FIBRES, TRANSPARENT FOIL, CHEMICAL CELLULOSE DERIVATIVES (CELLULOSE ESTERS AND CELLULOSE ETHERS), AND SOLUTIONS (LACQUERS) OF THE SAME; PITCH, TAR. ZELLSTOFFFABRIK WALDHOF, Mannheim-Waldhof, Germany.
Filed July 3, 1933. Serial No. 339,482. PUBLISHED DECEMBER 5, 1933. Class 1.

310,183. WHISKY. JAMES CATTO & CO. LIMITED, Aberdeen, Scotland.
Filed July 6, 1933. Serial No. 339,518. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,184. GASOLINE AND LUBRICATING OILS. HOWARD W. MILLER, Pittsburgh, Pa.
Filed July 8, 1933. Serial No. 339,595. PUBLISHED DECEMBER 5, 1933. Class 15.

310,185. GIN. VAN DULKEN WEILAND & CO'S EXPORT DISTILLEERDERIJ N. V., Schiedam, Netherlands.
Filed July 15, 1933. Serial No. 339,800. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,186. COSMETICS. GUY T. GIBSON, INC., New York, N. Y.
Filed July 18, 1933. Serial No. 339,863. PUBLISHED DECEMBER 5, 1933. Class 6.

310,187. GLASS CUTTERS. THE JENNINGS COMPANY, INC., Springfield, Mass.
Filed July 20, 1933. Serial No. 339,938. PUBLISHED DECEMBER 5, 1933. Class 23.

310,188. DIGESTANT TABLET FOR ACID SECRETIONS OF THE STOMACH. UNITED LABORATORIES, LTD., doing business as Therapy Laboratories, Pasadena, Calif.
Filed July 24, 1933. Serial No. 340,066. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,189. ICE CREAM. BYERS ICE CREAM COMPANY, East Point, Ga.
Filed July 26, 1933. Serial No. 340,110. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,190. FOOT SALVE USED AS AN ANTISEPTIC AND HEALING AGENT. LILLIAN GOODMAN, New York, N. Y.
Filed July 26, 1933. Serial No. 340,119. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,191. NOVELTY DEVICE FOR VIEWING FILMS. HARRY ZIMMERMAN, Indiana Harbor, Ind.
Filed July 26, 1933. Serial No. 340,146. PUBLISHED NOVEMBER 28, 1933. Class 26.

310,192. BUFFING CLOTH, BUFFING DISCS, AND BUFFING WHEELS. WILLIAMSVILLE BUFF MFG. CO., Danielson, Conn.
Filed January 20, 1933. Serial No. 334,170. PUBLISHED DECEMBER 5, 1933. Class 4.

310,193. BOTTLED WINES. PIERRE ANDRÉ LARENAUDIE, Tulle-Correze, France.
Filed September 19, 1933. Serial No. 341,690. PUBLISHED DECEMBER 5, 1933. Class 47.

310,194. MEDICINE IN TABLET FORM USED FOR RELIEF OF PAIN IN VARIOUS PHYSICAL OR MENTAL DISORDERS SUCH AS HEADACHE, TOOTHACHE, RHEUMATISM, NEURALGIA, AND LUMBAGO. BYK-GULDENWERKE CHEMISCHE FABRIK AKTIENGESELLSCHAFT, Berlin, Germany.
Filed September 19, 1933. Serial No. 341,697. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,195. PREPARATION FOR EXTERNAL APPLICATION TO THE SKIN FOR RELIEVING ITCHING, SUPERFICIAL BURNS, CHAFING, WINDBURN, MANY TYPES OF DERMATITIS, ITCHING PILES, AND DISCOMFORTS OF VARICOSE ULCERS. LOUIS SCHEIB, doing business as Hebics Co., New York, N. Y.
Filed September 19, 1933. Serial No. 341,700. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,196. DRESS AND NEGLIGEE SHIRTS. S. LIEBOVITZ & SONS, INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,715. PUBLISHED NOVEMBER 14, 1933. Class 39.

310,197. WHISKEY. LABROT & GRAHAM INCORPORATED, Versailles, Ky.
Filed September 21, 1933. Serial No. 341,767. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,198. GASOLINE, BLENDED GASOLINE, MOTOR FUEL OILS, LUBRICATING OILS AND GREASES, AND LUBRICATING COMPOUNDS TO BE ADDED TO FUEL OILS FOR INTERNAL-COMBUSTION ENGINES. SOCONY-VACUUM SPECIALTIES, INC., New York, N. Y.
Filed September 21, 1933. Serial No. 341,777. PUBLISHED NOVEMBER 28, 1933. Class 15.

310,199. HIGH-PRESSURE LUBRICANTS, MOTOR LUBRICATING OILS, TRANSMISSION AND DIFFERENTIAL LUBRICANTS. THE PEP BOYS—MANNY, MOE & JACK, Philadelphia, Pa.
Filed September 22, 1933. Serial No. 341,802. PUBLISHED NOVEMBER 21, 1933. Class 15.

310,200. WINES. WALTER TAYLOR, doing business as The Taylor Wine Company, Hammondsport, N. Y.
Filed September 22, 1933. Serial No. 341,816. PUBLISHED DECEMBER 5, 1933. Class 47.

310,201. LAXATIVES. FOSTER-MILBURN COMPANY, Buffalo, N. Y.
Filed September 21, 1933. Serial No. 341,821. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,202. CONES FILLED WITH ICE CREAM. FARMSTEAD, INC., New York, N. Y.
Filed September 23, 1933. Serial No. 341,833. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,203. ICE CREAM SALT. WORCESTER SALT CO., New York, N. Y.
Filed September 23, 1933. Serial No. 341,849. PUBLISHED DECEMBER 5, 1933. Class 6.

310,204. SULPHUR. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif.
Filed September 25, 1933. Serial No. 341,857. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,205. STORAGE BATTERIES AND SPARK PLUGS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed September 25, 1933. Serial No. 341,866. PUBLISHED NOVEMBER 21, 1933. Class 21.

310,206. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky.
Filed October 18, 1933. Serial No. 342,604. PUBLISHED DECEMBER 5, 1933. Class 49.

310,207. PREPARATION FOR EXTERNAL APPLICATION TO THE SKIN FOR RELIEVING ITCHING, SUPERFICIAL BURNS, CHAFING, WINDBURN, MANY TYPES OF DERMATITIS, ITCHING PILES, AND DISCOMFORTS OF VARICOSE ULCERS. LOUIS SCHEIB, doing business as Hebics Co., New York, N. Y.
Filed September 19, 1933. Serial No. 341,699. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,208. BRAKES AND BRAKE SYSTEMS AND PARTS THEREOF. BRAGG-KLIESRATH CORPORATION, South Bend, Ind.
Filed May 22, 1933. Serial No. 338,068. PUBLISHED DECEMBER 5, 1933. Class 19.

310,209. PREPARATION FOR USE IN THE TREATMENT OF STOMACH COMPLAINTS. ALEJANDRO GUMMA CASTELLO, Barcelona, Spain.
Filed May 22, 1933. Serial No. 338,074. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,210. PREPARED EDIBLE CHOCOLATE. LAMONT, CORLISS & COMPANY, New York, N. Y.
Filed May 26, 1933. Serial No. 338,253. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,211. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. BOURJOIS, INC., New York, N. Y.
Filed June 3, 1933. Serial No. 338,479. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,212. BOTTLED AND/OR CANNED VEGETABLES, FISH, OLIVE OILS. TRIESTE IMPORTING CO. INC., New York, N. Y.
Filed June 9, 1933. Serial No. 338,704. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,213. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS. GEORGE QUINTON, Easton, Pa., doing business as Easton Sales and Distributing Company, Chicago, Ill.
Filed June 12, 1933. Serial No. 338,792. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,214. INSULATED ELECTRIC CONDUCTOR CORDS. UNITED ELASTIC CORPORATION, Easthampton, Mass.
Filed April 12, 1933. Serial No. 336,699. PUBLISHED NOVEMBER 28, 1933. Class 21.

310,215. ELECTRIC AUTOMOBILE LAMPS AND PARTS THEREOF. CHARLES LELAND, Moline, Kans., assignor to The Rids Glare Lens Co., Coffeyville, Kans., a corporation of Kansas.
Filed April 17, 1933. Serial No. 336,874. PUBLISHED NOVEMBER 28, 1933. Class 21.

310,216. MEDICINAL PREPARATION FOR USE IN CONDITIONS WHERE LEUCOPENIA IS A FACTOR, TO STIMULATE THE FORMATION OF WHITE BLOOD CELLS. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed April 18, 1933. Serial No. 336,916. PUBLISHED DECEMBER 5, 1933. Class 6.

310,217. CANDY. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed April 19, 1933. Serial No. 336,930. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,218. ARTIFICIAL TEETH AND DENTAL PLATES. HARRY NATHAN SHOR, Philadelphia, Pa.
Filed April 19, 1933. Serial No. 336,965. PUBLISHED DECEMBER 5, 1933. Class 44.

310,219. LIQUID COMPOSITIONS FOR TREATING SURFACES OF THIN SHEETS OF CELLULOSIC DERIVATIVE COMPOSITIONS, AND COMPRISING A SOLVENT OR SOFTENER FOR SUCH DERIVATIVE, AND ACTING AS AN ADHESIVE CEMENT OR SHRINKING SOLUTION FOR THE SHEET. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed April 11, 1933. Serial No. 336,641. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,220. CHROME STEEL KITCHEN AND COOKING HOLLOW WARE. THE CORCORAN-BROWN LAMP COMPANY, Cincinnati, Ohio.
Filed April 6, 1933. Serial No. 336,499. PUBLISHED DECEMBER 5, 1933. Class 13.

310,221. SALINE LAXATIVE. ARTHUR HAHN, doing business as Genuine Fruit Acid Laboratories, Philadelphia, Pa.
Filed March 31, 1933. Serial No. 336,341. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,222. MONOLITHIC FURNACE LINING. QUIGLEY COMPANY, INC., New York, N. Y.
Filed March 25, 1933. Serial No. 336,098. PUBLISHED NOVEMBER 21, 1933. Class 12.

310,223. MONOLITHIC FURNACE LINING. QUIGLEY COMPANY, INC., New York, N. Y.
Filed March 25, 1933. Serial No. 336,096. PUBLISHED NOVEMBER 21, 1933. Class 12.

310,224. CANNED STRAINED VEGETABLE PRODUCTS—NAMELY, STRAINED BEETS, STRAINED GREEN BEANS, STRAINED TOMATOES, AND STRAINED CEREAL. FREMONT CANNING COMPANY, Fremont, Mich.
Filed September 21, 1932. Serial No. 330,546. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,225. LUBRICANT DRESSING FOR WIRES AND CABLES FOR ELECTRICAL USE. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa.
Filed March 23, 1931. Serial No. 312,451. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,226. MAGAZINE ISSUED REGULARLY EACH MONTH, CONTAINING NEWS AND OTHER INFORMATION OF INTEREST TO ALL PERSONS IN THE CEMETERY INDUSTRY, OR ALLIED INTERESTS. EDITH E. PRETTYMAN, Chicago, Ill.
Filed December 14, 1931. Serial No. 322,203. PUBLISHED NOVEMBER 21, 1933. Class 38.

310,227. PHOTOGRAPHIC OBJECTIVES. CARL ZEISS, Jena, Germany.
Filed August 29, 1932. Serial No. 329,973. PUBLISHED DECEMBER 5, 1933. Class 26.

310,228. HANGERS FOR TIES AND TOWELS. HOME FACILITIES, INC., Los Angeles, Calif.
Filed April 20, 1933. Serial No. 336,985. PUBLISHED DECEMBER 5, 1933. Class 13.

310,229. EMPTY BASE METAL POWDER AND ROUGE COMPACTS AND VANITIES. D. LISNER & CO., New York, N. Y.
Filed April 26, 1933. Serial No. 337,194. PUBLISHED DECEMBER 5, 1933. Class 2.

310,230. SAFETY RAZORS. WILLIAM H. BLACK, New York, N. Y.
Filed April 28, 1933. Serial No. 337,246. PUBLISHED DECEMBER 5, 1933. Class 23.

310,231. WATER SOFTENING AND WATER CONDITIONING CHEMICAL. THE BUROMIN COMPANY, Pittsburgh, Pa.
Filed May 2, 1933. Serial No. 337,383. PUBLISHED DECEMBER 5, 1933. Class 6.

310,232. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. SCHULTHEISS-PATZENHOFER BRAUEREI-AKTIENGESELLSCHAFT, Berlin, Germany.
Filed May 2, 1933. Serial No. 337,400. PUBLISHED DECEMBER 5, 1933. Class 48.

310,233. LUBRICATING OILS AND GREASES. CALUMET REFINING CO., Chicago, Ill.
Filed May 8, 1933. Serial No. 337,599. PUBLISHED NOVEMBER 28, 1933. Class 15.

310,234. ANISETTE BRANDY. HIJOS DE PABLO ESPARZA, Villava, Spain.
Filed March 2, 1933. Serial No. 335,419. PUBLISHED DECEMBER 5, 1933. Class 49.

310,235. DENTAL VARNISH AND THINNER FOR USE, PARTICULARLY IN COATING PLASTER MOLDS AND MODELS, BUT MAY BE USED FOR OTHER PURPOSES. THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa.
Filed March 16, 1933. Serial No. 335,757. PUBLISHED DECEMBER 5, 1933. Class 44.

310,236. LENSES AND FRAMES FOR EYEGLASSES. CARL ZEISS, Jena, Germany.
Filed September 27, 1932. Serial No. 330,733. PUBLISHED DECEMBER 5, 1933. Class 26.

310,237. EMULSIFYING AGENT FOR THE TREATMENT OF TEXTILE FIBRES. JOHN PATERSON & CO., LTD., Glasgow, Scotland.
Filed November 28, 1932. Serial No. 332,545. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,238. CHEMICAL VAPOR-GAS CRYSTALS. VAPOR-GAS CRYSTALS CO., Sharpsburg, Pa.
Filed February 28, 1933. Serial No. 335,374. PUBLISHED DECEMBER 5, 1933. Class 6.

310,239. SHELLED PEANUTS. DE LEON PEANUT COMPANY, De Leon, Tex.
Filed September 1, 1932. Serial No. 330,040. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,240. YEAST. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed September 17, 1932. Serial No. 330,437. PUBLISHED DECEMBER 5, 1933. Class 46.

310,241. LUBRICATING OILS AND GREASES. MARQUETTE PETROLEUM PRODUCTS, INC., Chicago, Ill.
Filed November 20, 1930. Serial No. 308,118. PUBLISHED NOVEMBER 21, 1933. Class 15.

310,242. WHISKEY. BENJAMIN P. LILIENTHAL, San Francisco, Calif.
Filed October 9, 1933. Serial No. 342,281. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,243. NEWSPAPER CARTOONS PUBLISHED IN A CONTINUING SERIES. HAL FORREST, whose nom-de-plume is Harry Paul, Los Angeles, Calif.
Filed October 9, 1933. Serial No. 342,265. PUBLISHED NOVEMBER 28, 1933. Class 38.

310,244. WINDOW CLEANING DEVICES OF THE HAND SQUEEGEE TYPE. CYRIL R. DAVIDSON, doing business as Davidson Bros. Mfg. Co., New York, N. Y.
Filed October 9, 1933. Serial No. 342,263. PUBLISHED DECEMBER 5, 1933. Class 29.

310,245. WHISKEY. BENJAMIN P. LILIENTHAL, San Francisco, Calif.
Filed October 9, 1933. Serial No. 342,279. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,246. MONTHLY MAGAZINE. INTERNATIONAL CATHOLIC TRUTH SOCIETY, Brooklyn, N. Y.
Filed August 21, 1933. Serial No. 340,878. PUBLISHED NOVEMBER 28, 1933. Class 38.

310,247. WHISKEY. WILLIAM G. WIGLESWORTH, doing business as The Wiglesworth Bros. Co., Cynthiana, Ky.
Filed August 19, 1933. Serial No. 340,854. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,248. COLOGNE, TALCUM POWDER, PERFUME, TOILET CREAMS, TOILET ROUGES, FACE POWDER, LIP STICK, AND SACHET. F. J. M. MILES, Sunland, Calif.
Filed August 16, 1933. Serial No. 340,749. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,249. FINGER NAIL OIL. BERENICE C. GOLDBERG, doing business as Bergo Laboratories, Hollywood, Calif.
Filed August 14, 1933. Serial No. 340,683. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,250. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. HAMPDEN BREWING COMPANY, Willimansett, Mass.
Filed August 12, 1933. Serial No. 340,646. PUBLISHED DECEMBER 5, 1933. Class 48.

310,251. PAVEMENT MATERIALS. L. R. MACKENZIE INCORPORATED, Tulsa, Okla.
Filed August 7, 1933. Serial No. 340,480. PUBLISHED NOVEMBER 21, 1933. Class 12.

310,252. SILVER-PLATED HOLLOW TABLEWARE, AND SILVER-PLATED ORNAMENTAL WARE CONSISTING OF FLOWER BOWLS, VASES, AND CANDLESTICKS. FRIEDMAN SILVER CO., INC., Brooklyn, N. Y.
Filed August 4, 1933. Serial No. 340,426. PUBLISHED NOVEMBER 28, 1933. Class 28.

310,253. WHISKEY. THE GOVERNOR AND COMPANY OF ADVENTURES OF ENGLAND TRADING INTO HUDSON'S BAY, Winnipeg, Manitoba, Canada.
Filed August 3, 1933. Serial No. 340,351. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,254. ANTIASTHMATIC PREPARATION. SANTIAGO PAGÉS MARUNY, Barcelona, Spain.
Filed July 31, 1933. Serial No. 340,268. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,255. PREPARATION FOR RELIEF OF HEADACHE, NEURALGIA, AND PAINS CAUSED BY COLD OR EXPOSURE. JOSEPH ROWEN, Brooklyn, N. Y.
Filed July 28, 1933. Serial No. 340,201. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,256. BEER AND ALE. CANAVAN-LEGGETT BREWERY, INC., Niagara Falls, N. Y.
Filed September 14, 1933. Serial No. 341,568. PUBLISHED DECEMBER 5, 1933. Class 48.

310,257. TEXTILE OILS—NAMELY, EMULSIFIABLE SILK-SOAKING OILS. SOLUOL CORPORATION, Providence, R. I.
Filed September 13, 1933. Serial No. 341,561. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,258. VEGETABLE SEEDS, FLOWER SEEDS, BULBS, AND PLANTS. GEO. TAIT & SONS, INC., Norfolk, Va.
Filed September 7, 1933. Serial No. 341,534. PUBLISHED DECEMBER 5, 1933. Class 1.

310,259. FOOD PRODUCTS—NAMELY, CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. ABRAHAM KRASNE, New York, N. Y.
Filed September 12, 1933. Serial No. 341,518. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,260. RAW MATERIALS CONSISTING OF CLAY USED IN OIL WELL DRILLING. MID-CONTINENT MUD COMPANY, Houston, Tex.
Filed September 11, 1933. Serial No. 341,487. PUBLISHED DECEMBER 5, 1933. Class 1.

310,261. WHISKY. MELROSE-DROVER, LIMITED, Leith, Scotland, and London, England.
Filed September 9, 1933. Serial No. 341,461. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,262. SCOTCH WHISKY. P. D. CARNEGIE & SONS, LTD., London, England.
Filed September 8. 1933. Serial No. 341,421. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,263. MECHANICAL FEED MIXERS. BROWER MANUFACTURING COMPANY, Quincy, Ill.
Filed September 5, 1933. Serial No. 341,384. PUBLISHED DECEMBER 5, 1933. Class 23.

310,264. VEGETABLE RELISH. COLEMAN NEMETH, Mount Morris, Mich.
Filed September 6, 1933. Serial No. 341,374. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,265. SALVE AND OINTMENT AND PREPARATION FOR TREATING WOUNDS, CUTS, BOILS, SKIN ABRASIONS, SORES, AND OTHER SIMILARLY AFFECTED PARTS. ELIZABETH BROWN MASHETER, doing business as The Draw-Ee Salve Co., Seaman, Ohio.
Filed September 15, 1933. Serial No. 341,606. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,266. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. CHALIÉ, RICHARDS & CO., LTD., London, England.
Filed August 25, 1933. Serial No. 341,014. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,267. ELECTRICAL CONDUIT. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed September 15, 1933. Serial No. 341,598. PUBLISHED NOVEMBER 21, 1933. Class 21.

310,268. ELECTRICAL HEATERS, PARTICULARLY OF THE ENCLOSED OR WALL RECESSED TYPE. FRANK ADAM ELECTRIC CO., St. Louis, Mo.
Filed September 5, 1933. Serial No. 341,317. PUBLISHED NOVEMBER 21, 1933. Class 21.

310,269. NITRATE OF LIME, USED AS A FERTILIZER. NORSK HYDRO-ELEKTRISK KVÆLSTOFAKTIESELSKAB, Oslo, Norway.
Filed September 2, 1933. Serial No. 341,300. PUBLISHED DECEMBER 5, 1933. Class 10.

310,270. MADE-UP SEAT COVERS, STOOL COVERS, TOILET-SEAT COVERS, AND TOILET-STOOL COVERS MADE OF TUFTED TEXTILE FABRIC. CALLAWAY MILLS, Lagrange, Ga.
Filed August 31, 1933. Serial No. 341,190. PUBLISHED NOVEMBER 28, 1933. Class 32.

310,271. MONTHLY MAGAZINE. THE COLONEL PUBLISHING COMPANY, Louisville, Ky.
Filed August 30, 1933. Serial No. 341,160. PUBLISHED NOVEMBER 21, 1933. Class 38.

310,272. LINIMENT FOR EXTERNAL USE, RECOMMENDED TO RELIEVE COMMON HEADACHES, MUSCULAR PAINS, ETC. CLARENCE E. MILLER, Denver, Colo.
Filed August 25, 1933. Serial No. 341,028. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,273. FACIAL OIL FOR THE SKIN. FAYE CHEVALIER, Houston, Tex.
Filed September 18, 1933. Serial No. 341,645. PUBLISHED NOVEMBER 21, 1933. Class 6.

310,274. BRUSHES FOR NATURAL TEETH AND ARTIFICIAL TEETH ON BRIDGES, CLASPS, PLATES, AND THE LIKE. NYKO LABORATORIES, INC., Chicago, Ill.
Filed September 18, 1933. Serial No. 341,661. PUBLISHED DECEMBER 5, 1933. Class 29.

310,275. DENTURE ADHERENT POWDER. NYKO LABORATORIES, INC., Chicago, Ill.
Filed September 18, 1933. Serial No. 341,662. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,276. RUM. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND TRADING INTO HUDSON'S BAY, Winnipeg, Manitoba, Canada.
Filed September 18, 1933. Serial No. 341,678. PUBLISHED NOVEMBER 21, 1933. Class 49.

310,277. MANICURING SCISSORS, NAIL FILES, NAIL NIPPERS, MANICURING TWEEZERS. J. A. HENCKELS, INC., New York, N. Y.
Filed September 19, 1933. Serial No. 341,689. PUBLISHED DECEMBER 5, 1933. Class 44.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

310,278. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) RALPH JAEGER, Brooklyn, N. Y. Filed Nov. 21, 1932. Serial No. 332,343.

UNI-COATED

For Fabric Labels.
Claims use since Nov. 1, 1932.

310,279. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THORER & COMPANY, Leipzig, Germany. Filed Dec. 5, 1931. Serial No. 321,833.

THORERFARBE LEIPZIG

For Dyed Skins.
Claims use since Jan. 1, 1930.

310,280. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ALFRED DAVIDSON, New York, N. Y. Filed Jan. 17, 1933. Serial No. 334,004.

KRAZEE

For Patches and Swatches of Cotton, Wool, and Silk, and Mixtures Thereof.
Claims use since Dec. 9, 1932.

310,281. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FAN-VAC MANUFACTURING COMPANY, Wichita, Kans. Filed Dec. 5, 1932. Serial No. 332,764.

WETPROOF INSULATOR

For a Waterproofing Preparation in Liquid Form for Ignition Systems of Internal Combustion Engines.
Claims use since Nov. 1, 1932.

310,282. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ALDEN SPEARE'S SONS CO., Cambridge, Mass. Filed June 8, 1933. Serial No. 338,667.

MASTERCRAFT

For Laundry Bluing.
Claims use since December, 1932.

310,283. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE RUDOLPH WURLITZER MANUFACTURING COMPANY, North Tonawanda, N. Y. Filed Mar. 1, 1933. Serial No. 335,480.

SPEEDI-SPIN

For Laundry Washing Machines, Clothes Wringers, and Mangles.
Claims use since Dec. 1, 1932.

310,284. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PH. ORTH CO., Milwaukee, Wis. Filed Aug. 5, 1933. Serial No. 340,445.

kwik-fuj

For Preparation Used in Preparing and Flavoring Cake, Frosting, and Milk Beverage.
Claims use since Nov. 1, 1932.

310,285. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STEELCRAFT TOOL CO., New York, N. Y. Filed June 12, 1933. Serial No. 338,804.

STEELCRAFT

For Machine and Hand Tools—Namely, Pliers, Planes, Chisels, and Hammers.
Claims use since September, 1925.

310,286. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRESTON RIDER PACKING COMPANY, Campbellsburg, Ind. Filed Aug. 23, 1933. Serial No. 341,002.

RIDER'S BEST

For Canned Vegetables, Purees, and Soups.
Claims use since Jan. 6, 1925.

310,287. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE FRANK S. HARDEN CO., McConnellsville, N. Y. Filed Aug. 12, 1933. Serial No. 340,647.

Penfield Chairs

For Upholstered Chairs, Couches, Lounges Davenports, Rockers, Footrests, and Non-Upholstered Chairs, Tables, and Cabinets.
Claims use since Nov. 1, 1932.

310,288. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. S. STODDARD & CO., INC., New York, N. Y. Filed Oct. 31, 1933. Serial No. 343,094.

STANNO-YEAST

For Medicinal Tablets for Defensive Treatment Against Staphylococcic Infection and Intestinal Corrective Indicated in Acne and Furunculosis.
Claims use since May 1, 1932.

310,289. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHYSICIANS SUPPLY COMPANY, INC., York, Pa. Filed Oct. 28, 1933. Serial No. 343,007.

PHENOBROMIDES

For Sedative and Hypnotic Elixir.
Claims use since Nov. 9, 1931.

310,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PLOUGH, INC., doing business as Craig's, Inc., Memphis, Tenn. Filed Nov. 20, 1933. Serial No. 343,873.

Craig's

For Aspirin, Quinine Cold Tablets, Laxin (a Medicinal Preparation in Tablet Form for the Treatment of Constipation and Indigestion) and a Medicinal Preparation for Treatment of Cuts, Burns, and Other Simple Injuries.
Claims use since Oct. 22, 1928.

310,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSCAR J. BEEM, West Riverside, Calif. Filed Nov. 17, 1933. Serial No. 343,761.

BEEM'S PREPARED VEGETABLES

Redi-To-Kook

For Especially Prepared Ready-to-Cook Vegetables, Said Vegetables Being Pre-Conditioned and Packed in Cellophane Bags and Analogous Containers in a Virtually Raw or Fresh State.
Claims use since August, 1931.

TRADE-MARK REGISTRATIONS RENEWED

11,210. CORDS, LINES, TWINES, AND ROPES. Registered May 10, 1884. JAMES P. TOLMAN, West Newton, Mass. Re-renewed May 10, 1934, to Samson Cordage Works, Boston, Mass., a corporation of Massachusetts, assignee.

41,751. ENVELOPS. Registered December 29, 1903. OUTLOOK ENVELOPE COMPANY, Chicago, Ill., a corporation of West Virginia. Renewed December 29, 1933.

94,548. LAXATIVES. Registered December 16, 1913. W. E. DERBY, M. D., INC., Dover, N. J., a corporation of New Jersey. Renewed December 16, 1933.

94,616. TAGS. Registered December 23, 1913. DENNISON MANUFACTURING COMPANY, Boston, Mass. Renewed December 23, 1933, to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts.

94,785. BLACKBERRY CORDIAL. Registered December 30, 1913. GARRETT & CO., Norfolk, Va. Renewed December 30, 1933, to Garrett & Company, Incorporated, Brooklyn, N. Y., a corporation of New York, assignee by mesne assignments.

95,192. A COMPOUND FLOUR OF CERTAIN NAMED INGREDIENTS. Registered February 3, 1914. ALBERS BROS. MILLING CO., San Francisco, Calif. Renewed February 3, 1934, to Albers Bros. Milling Company, Portland, Oreg., a corporation of Oregon.

95,238. RYE AND WHEAT BREAD FLOUR. Registered February 3, 1914. WILLIAM W. VAN VECHTEN, Rochester, N. Y. Renewed February 3, 1934.

95,288. CERTAIN NAMED AGRICULTURAL AND HORTICULTURAL SEEDS. Registered February 10, 1914. THE BARTELDES SEED COMPANY, Denver, Colo., and Lawrence, Kans., a corporation of Colorado. Renewed February 10, 1934.

95,723. LARD, HAM, BACON, AND SCRAPPLE. Registered March 3, 1914. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed March 3, 1934.

96,655. CAPS. Registered April 28, 1914. EAGLE KNITTING MILLS, Milwaukee, Wis., a firm. Renewed April 28, 1934.

96,884. MAYONNAISE DRESSING. Registered May 5, 1914. RICHARD HELLMAN. Renewed May 5, 1934, to The Best Foods, Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

97,115. BUCKWHEAT-FLOUR AND BUCKWHEAT PRODUCTS COMMERCIALLY KNOWN AS BUCKWHEAT FLOUR. Registered May 19, 1914. THE BLODGETT MILLING CO. Renewed May 19, 1934, to Frank H. Blodgett, Incorporated, Janesville, Wis., a corporation of Wisconsin, successor.

97,239. WATER-CLOSET BOWLS AND TANKS. Registered May 26, 1914. STANDARD SANITARY MANUFACTURING COMPANY, as assignee of The Great Western Pottery Co., Kokomo, Ind. Renewed May 26, 1934, to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a corporation of New Jersey, assignee.

97,265. VULNERARIES. Registered May 26, 1914. NELSON, BAKER & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed May 26, 1934.

97,327. PIPE-FITTINGS AND METAL VALVES. Registered June 2, 1914. GENERAL FIRE EXTINGUISHER COMPANY, New York, N. Y., and Providence, R. I. Renewed June 2, 1934, to General Fire Extinguisher Company, Providence, R. I., a corporation of Delaware, assignee.

97,414. A DISINFECTANT. Registered June 2, 1914. FULTON BAG & COTTON MILLS. Renewed June 2, 1934, to The Selig Company, Atlanta, Ga., a corporation of Georgia, assignee.

97,430. ABRASIVE PAPER AND CLOTH. Registered June 2, 1914. MANNING SAND PAPER COMPANY, Watervliet, N. Y. Renewed June 2, 1934, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts, assignee.

97,503. WATER-CONTAINING VESSELS SERVING AS COOLERS. Registered June 9, 1914. W. A. PLUMMER M'F'G. CO. Renewed June 9, 1934, to Ames Harris Neville Co., San Francisco, Calif., a corporation of California, assignee.

98,043. A FOOT-POWDER. Registered June 30, 1914. GEORGE E. CURD, Paducah, Ky. Renewed June 30, 1934, to George E. Curd, Memphis, Tenn.

98,208. A REMEDY FOR CATARRH, HAY-FEVER, AND COLD IN THE HEAD. Registered July 7, 1914. SPURLOCK-NEAL CO. Renewed July 7, 1934, to McKesson-Berry-Martin Company, Nashville, Tenn., a corporation of Tennessee, assignee.

LABELS

REGISTERED FEBRUARY 13, 1934

43,214.—*Title:* OLD MELODY. For Whiskey. CHATEAU PRODUCTS, INC., St. Louis, Mo. Published December 28, 1933.

43,215.—*Title:* A SELECTION BY FASHION CONGRESS OF AMERICA. For Apparel and Accessories. S. J. COHEN, Baltimore, Md. Published January 15, 1934.

43,216.—*Title:* BUTTER SCOTCH. For Butter Scotch Candy. J. N. COLLINS COMPANY, Philadelphia, Pa. Published December 15, 1933.

43,217.—*Title:* DERMO. For a Preparation for Rejuvenating the Hair and Treating the Scalp. DERMO PRODUCTS COMPANY, Hollywood, Calif. Published October 21, 1933.

43,218.—*Title:* G & B CABINET. For Rye Blend Whiskey. GALLAGHER & BURTON, INC., Philadelphia, Pa. Published December 5, 1933.

43,219.—*Title:* G & B SPORTSMAN. For Scotch Blend Whiskey. GALLAGHER & BURTON, INC., Philadelphia, Pa. Published December 5, 1933.

43,220.—*Title:* G & B IMPERIAL. For Rye Blend Whiskey. GALLAGHER & BURTON, INC., Philadelphia, Pa. Published December 5, 1933.

43,221.—*Title:* INDIAN. For Chewing Gum. THE GOUDEY GUM CO., Boston, Mass. Published November 29, 1933.

43,222.—*Title:* GLENDOR LIQUOR. For Liquor. J. H. ROBERT GRANT, New York, N. Y. Published December 6, 1933.

43,223.—*Title:* GRIFFITH'S PATENTED PROCESS CURE. For a Powdered Salt Mass for Treating Meats. THE GRIFFITH LABORATORIES, INC., Chicago, Ill. Published October 26, 1933.

43,224.—*Title:* PRAGUE SALT POWDER. For Powdered Salt Mass for Treating Meats. THE GRIFFITH LABORATORIES, INC., Chicago, Ill. Published October 26, 1933.

43,225.—*Title:* KELLOGG'S RICE KRISPIES—TOMMY TUCKER'S BIRTHDAY TOLD BY KELLOGG'S SINGING LADY. For Ready-To-Eat Rice Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published December 11, 1933.

43,226.—*Title:* KELLOGG'S RICE KRISPIES—SIMPLE SIMON TOLD BY KELLOGG'S SINGING LADY. For Ready-To-Eat Rice Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published December 11, 1933.

43,227.—*Title:* KELLOGG'S RICE KRISPIES—JACK BE NIMBLE TOLD BY KELLOGG'S SINGING LADY. For Ready-To-Eat Rice Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published December 11, 1933.

43,228.—*Title:* KELLOGG'S RICE KRISPIES—OLD MOTHER HUBBARD TOLD BY KELLOGG'S SINGING LADY. For Ready-To-Eat Rice Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published December 11, 1933.

43,229.—*Title:* KELLOGG'S RICE KRISPIES—OLD KING COLE TOLD BY KELLOGG'S SINGING LADY. For Ready-To-Eat Rice Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published December 11, 1933.

43,230.—*Title:* KELLOGG'S RICE KRISPIES—TOM THE PIPER'S SON TOLD BY KELLOGG'S SINGING LADY. For Ready-To-Eat Rice Cereal Food. KELLOGG COMPANY, Battle Creek, Mich. Published December 11, 1933.

43,231.—*Title:* DOROTHY LATHROP PURITY BRAND FOOD COLORING. For Food Coloring. DOROTHY LATHROP PRODUCTS COMPANY, Rochester, N. Y. Published September 7, 1933.

43,232.—*Title:* SEA VIEW BRAND. For Canned Tomatoes. RALPH L. MASON, Newark, Md. Published December 16, 1933.

43,233.—*Title:* GERMAN STYLE. For Beer. LENA MILLER, executrix of Peter Bub, deceased, doing business as Peter Bub Brewery, Winona, Minn. Published April 7, 1933.

43,234.—*Title:* MOUNT ROSE. For Dry Gin. MOUNT ROSE DISTILLING CO., Trenton, N. J. Published December 30, 1933.

43,235.—*Title:* NATIONAL LAGER BEER. For Lager Beer. THE NATIONAL BREWING CO., Baltimore, Md. Published December 9, 1933.

43,236.—*Title:* COFFEE. For Coffee. MARTIN NEUMANN, New York, N. Y. Published December 11, 1933.

43,237.—*Title:* PARKE'S GOLD CAMEL TEA. For Tea. L. H. PARKE COMPANY, Philadelphia, Pa. Published January 4, 1934.

43,238.—*Title:* REGAL CRYSTALS KILLS MOTHS—FOR USE IN VACUUM CLEANERS. For a Chemical Crystal Preparation as a Protection Against Moths for Use in Vacuum Cleaners. REGAL PRODUCTS CO., New York, N. Y. Published April 4, 1933.

43,239.—*Title:* REGAL SPRAY KILLS MOTHS, FLIES, MOSQUITOES, ANTS, ROACHES. For a Chemical Liquid Preparation for the Extermination of Moths and Other Household Pests. REGAL PRODUCTS CO., New York, N. Y. Published March 29, 1933.

43,240.—*Title:* REGAL WHITE CRYSTALS KILLS MOTHS AND MOTH WORMS. For a Chemical Crystal Preparation for the Killing of Moths, Moth Eggs and Larvæ. REGAL PRODUCTS CO., New York, N. Y. Published April 7, 1933.

43,241.—*Title:* REEFER'S CRYSTALS KILLS MOTHS—FOR USE IN VACUUM CLEANERS. For a Chemical Crystal Preparation for the Extermination of Moths and Moth Worms for Use in Vacuum Cleaners. REEFER-GALLER, INC., New York, N. Y. Published April 4, 1933.

43,242.—*Title:* REEFER'S SNOWHITE CRYSTALS KILLS MOTHS AND MOTH WORMS. For a Chemical Crystal Preparation for the Extermination of Moths and Moth Worms. REEFER-GALLER, INC., New York, N. Y. Published April 4, 1933.

43,243.—*Title:* REEFER'S INJECT-O—PREVENTS AND KILLS MOTHS INSIDE UPHOLSTERED FURNITURE. For a Liquid Chemical Preparation for the Extermination of Moths and Moth Worms. REEFER-GALLER, INC., New York, N. Y. Published April 7, 1933.

43,244.—*Title:* FELLS LONDON ORIGINAL DRY GIN. For Dry Gin. ROYAL DISTILLERS, LTD., Chicago, Ill. Published December 18, 1933.

43,245.—*Title:* MOONGLO PEARLS, NATURE'S ONLY RIVAL. For Pearls. SCHEIN BROTHERS, INC., New York, N. Y. Published October 2, 1933.

43,246.—*Title:* "DEER-STALKER" SPECIAL LIQUEUR. For Whisky. J. G. THOMSON & CO. LTD., Edinburgh, Scotland. Published September 15, 1933.

43,247.—*Title:* THOMSON'S CLAN MACGREGOR FINE OLD SCOTCH WHISKY—THE CLAN BLENDS. For Whisky. J. G. THOMSON & CO. LTD., Edinburgh, Scotland. Published September 15, 1933.

43,248.—*Title:* OLD VIRGINIA. For Beer. TIDEWATER BEVERAGE DIST. CO., South Norfolk, Va. Published November 29, 1933.

43,249.—*Title:* B AND H. For Beer. TIDEWATER BEVERAGE DIST. CO., South Norfolk, Va. Published November 29, 1933.

43,250.—*Title:* PEARL-WHITE TOOTH PASTE. For Tooth Paste. THE TRADE LABORATORIES, INC., Newark, N. J. Published January 15, 1934.

43,251.—*Title:* BUTTER-CREAM. For Bread. WESTERN BAKERIES CORP. LTD., Los Angeles, Calif. Published December 5, 1933.

PRINTS

REGISTERED FEBRUARY 13, 1934

14,580.—*Title:* OLD MASTER COFFEE. For Coffee. THE BLODGETT-BECKLEY CO., Toledo, Ohio. Published November 17, 1933.

14,581.—*Title:* DE LAVAL CREAM SEPARATORS AND MILKERS. For Cream Separators and Milkers. THE DE LAVAL SEPARATOR COMPANY, New York, N. Y. Published October 9, 1933.

14,582.—*Title:* FREE! $5,000.00 IN CASH IN THIS NEW BETTY CROCKER CAKE NAMING CONTEST! For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published October 31, 1933.

14,583.—*Title:* BABE RUTH—THE HOME-RUN KING. For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published July 30, 1933.

14,584.—*Title:* MOTHER! DON'T FORCE YOUR CHILD TO EAT A HOT CEREAL! For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published January 2, 1934.

14,585.—*Title:* A GRAND SMASH. For Coffee. HILLS BROS., San Francisco, Calif. Published November 29, 1933.

14,586.—*Title:* AFTER THE BALL IS OVER. For Coffee. HILLS BROS., San Francisco, Calif. Published December 4, 1933.

14,587.—*Title:* GIVE HIM A BREAK. For Coffee. HILLS BROS., San Francisco, Calif. Published December 4, 1933.

14,588.—*Title:* ROLLS AND COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published December 7, 1933.

14,589.—*Title:* A YES MAN. For Coffee. HILLS BROS., San Francisco, Calif. Published December 7, 1933.

14,590.—*Title:* FAMILIES LARGE AND SMALL. For Coffee. HILLS BROS., San Francisco, Calif. Published December 11, 1933.

14,591.—*Title:* DON'T BET ON WOMEN. For Coffee. HILLS BROS., San Francisco, Calif. Published December 11, 1933.

14,592.—*Title:* MARY WENT TO MARKET. For Coffee. HILLS BROS., San Francisco, Calif. Published December 14, 1933.

14,593.—*Title:* WHISKERS FOR SANTA. For Coffee. HILLS BROS., San Francisco, Calif. Published December 14, 1933.

14,594.—*Title:* CARVE YOUR WAY TO SUCCESS. For Coffee. HILLS BROS., San Francisco, Calif. Published November 27, 1933.

14,595.—*Title:* NATIONAL DISTILLERS. For Whiskey. NATIONAL DISTILLERS PRODUCTS CORPORATION, New York, N. Y. Published October 17, 1933.

14,596.—*Title:* 50 TONS OF DOG CHOW GO TO SOUTH POLE WITH BYRD! (POSTER). For Dog Food. RALSTON PURINA COMPANY, St. Louis, Mo. Published November 13, 1933.

14,597.—*Title:* ASK ABOUT THE PURINA FEEDING AND MANAGEMENT PROGRAM THAT ASSURES DAIRY PROFITS (DAIRY POSTER). For Dairy Feed. RALSTON PURINA COMPANY, St. Louis, Mo. Published November 24, 1933.

14,598.—*Title:* TARZAN. For Candy. STEPHEN SLESINGER, New York, N. Y. Published October 6, 1933.

REISSUES

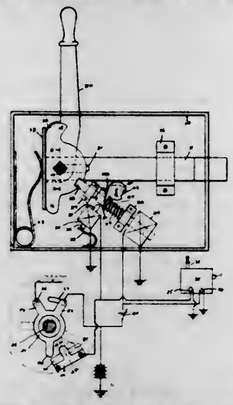
FEBRUARY 13, 1934

19,073
LOCKING DEVICE

Francis D. Hardesty, Ferndale, Mich., assignor, by mesne assignments, to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan

Original No. 1,833,572, dated November 24, 1931, Serial No. 57,546, September 21, 1925. Application for reissue July 5, 1932. Serial No. 620,954

20 Claims. (Cl. 70—50)



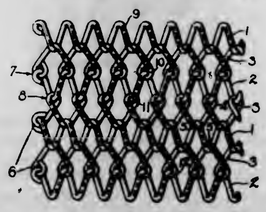
1. A lock for a door of an automobile provided with an engine having electric ignition, said lock comprising a spring actuated bolt, means extending to the exterior of the door for operating said bolt and other means for automatically locking said first means upon voluntary stopping of the engine of said automobile by turning off said ignition.

19,074
WOVEN WIRE CONVEYER BELT

Harold A. Wadman, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Original No. 1,880,537, dated October 4, 1932, Serial No. 608,964, May 3, 1932. Application for reissue October 21, 1933. Serial No. 694,621

7 Claims. (Cl. 198—193)



1. A woven wire conveyer, comprising alternately arranged transversely disposed substantially helical right and left hand wound wires, connecting wires interposed between and meshing with each turn of the first named wires and so formed and arranged that when the conveyer is assembled for use, it presents a supporting surface for ware made up of portions of the turns of all of said wires and of such character that the lines of the ware-supporting surface for any four contiguous wires includes at least one substantial change in direction, whereby articles having relatively narrow bottoms may be supported on the conveyer without toppling.

19,075
DISPLAY PACKAGE AND CLAMP DEVICE THEREFOR

Paul E. Faust, West Wyomissing, Pa., assignor to Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania

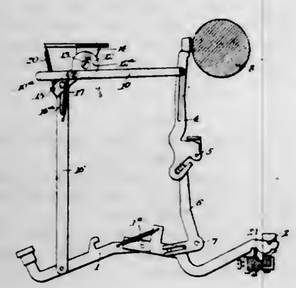
Original No. 1,931,470, dated October 17, 1933, Serial No. 613,659, May 26, 1932. Application for reissue December 8, 1933. Serial No. 702,621

3 Claims. (Cl. 211—1)



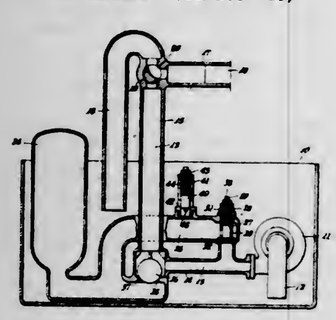
2. A display device for holding a substantially flat ribbon package and a spool of thread against each other in vertical alignment to enable ready visual comparison therebetween, comprising, in combination, a spring clamp formed of a unitary strip of resilient material and including a substantially U-shaped body having rearward and forward clamping portions, the forward portion being normally inclined toward the rearward portion, and a substantially straight central portion joining the bases of said rearward and forward portions and spacing the same appreciably one from the other, the length of said central portion being at least equal to the thickness of the spool wall plus the thickness of the package, said rearward and forward portions being adapted to respectively engage the package and spool to jointly clamp them together in substantially upright position, the rearward portion extending upwardly at a rearward inclination to slightly greater height than the forward portion and including an integral downwardly extending and outwardly diverging brace portion, the inner side of said rearward portion being adapted to engage the rear of said package and said forward portion being arranged to extend into the hole of the spool and to press the circumferential portion of said spool against the front of the lower marginal portion of said package, whereby the outer annular portions of said spool and the lower end of said package are held in abutting relation within said U-shaped body, thereby to visually present the spool in slightly elevated position and at a rearward inclination in relief against an inclined background constituting said ribbon package while the spool affords concealment of the forward portion of said U-shaped body.

19,076
TYPEWRITING MACHINE
Carl A. Joerissen, Washington, D. C.
Original No. 1,846,339, dated February 23, 1932, Serial No. 96,602, March 22, 1926. Application for reissue December 15, 1933. Serial No. 702,611
28 Claims. (Cl. 197—25)



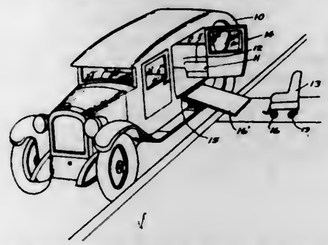
1. In a typewriting machine, the combination of a platen, a key lever, a type bar movable to and from printing relation with the platen, means controlled by actuation of the key lever for effecting initial movement of the type bar toward the platen, means for checking the movement of the type bar toward the platen including a pivotally mounted member connected to the type bar, and means for connecting the key lever and said pivotally mounted member during a portion of an operative movement of the key lever for positively moving said member to effect completion of a movement of the type bar toward the platen.

19,077
HYDRAULIC APPARATUS
Donald H. Montgomery, Berlin, Conn., assignor to New Britain-Gridley Machine Company, New Britain, Conn., a corporation of Connecticut
Original No. 1,796,936, dated March 17, 1931, Serial No. 206,190, July 16, 1927. Application for reissue October 17, 1931. Serial No. 569,518
24 Claims. (Cl. 103—40)



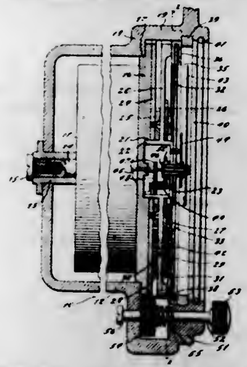
1. In an apparatus of the character described, a chamber or passage, an accumulator, a pump for delivering fluid under pressure to said passage and said accumulator, means for preventing fluid from flowing into said accumulator until a predetermined pressure is built up in said passage by said pump, and means for establishing communication from said accumulator to said passage when the pressure in said passage falls below that of said accumulator.

19,078
AUTOMOBILE BODY
Wright Barclay, New York, N. Y.
Original No. 1,835,840, dated December 8, 1931, Serial No. 366,997, May 29, 1929. Application for reissue August 30, 1933. Serial No. 687,531
4 Claims. (Cl. 296—65)



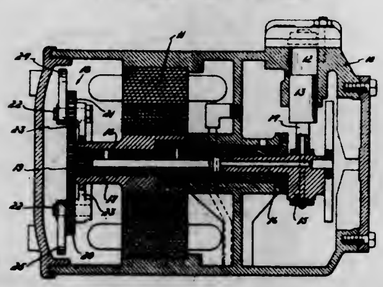
1. In an automobile comprising a body and having a removable wheeled seat, which latter is provided with a keeper, means for releasably retaining the wheeled seat in a fixed position during travel of the automobile, said means including a pivotally movable latch for engaging said keeper, bearings rigid with said body and having a rod turnable therein, an arm carried by said rod, an actuator for said latch rigid with said rod, an operating lever pivotally mounted on said body, and link means pivotally connecting said arm and said lever, whereby on operating the latter said actuator is effective to move said latch for releasing the wheeled seat.

19,079
ALTIMETER
Paul Kollsman, New York, N. Y.
Original No. 1,857,311, dated May 10, 1932, Serial No. 580,119, December 10, 1931. Application for reissue October 27, 1932. Divided and this application December 20, 1933. Serial No. 703,328
42 Claims. (Cl. 73—4)



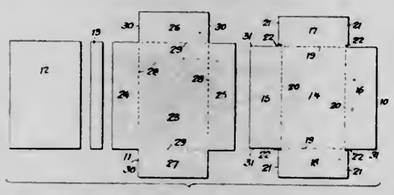
14. An altimeter comprising an atmospheric pressure sensitive means; an indicating means including a plurality of elements two of which are movable in different degrees by the pressure sensitive means relatively to a third element; a reference means, the latter and the indicating means being adapted to be set for different indications; a setting means for causing a setting movement of said reference means and a setting movement in said degrees of two elements of the indicating means, such that the sums of the setting changes of the reference means and of the elements movable in setting are maintained equal to zero.

19,080
POWER TRANSMITTING DEVICE
Harold A. Greenwald, Marion, Ind., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a corporation of Michigan
Original No. 1,826,172, dated October 6, 1931, Serial No. 480,561, September 8, 1930. Application for reissue April 29, 1932. Serial No. 608,322
4 Claims. (Cl. 74—34)



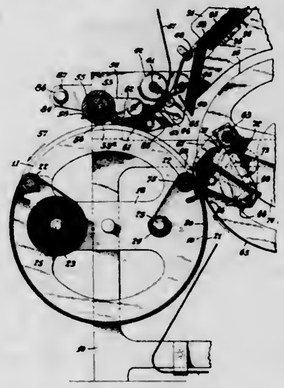
1. An article of manufacture comprising a housing of substantially tubular formation having a transversely extending web provided with a tubular portion constituting a bearing, a compressor shaft journalled in the bearing, a split phase motor within the housing and having a rotor hub rotatable freely on said shaft and substantially abutting the bearing, and means substantially free from friction for transmitting motion positively from the rotor hub to said shaft at a one to one ratio after the rotor hub has accelerated from zero speed to a predetermined speed less than the normal running speed thereof, comprising only a sun gear fixed directly to said shaft and rotatable planet gears carried by the rotor hub and meshing with the sun gear, said planet gears being individually unbalanced but arranged symmetrically with respect to the axis of the shaft so that the gearing as a whole is always in balance.

19,081
CARDBOARD BOX
George H. Snyder, Glenside, and Allen G. Snyder, Chestnut Hill, Pa.
Original No. 1,839,779, dated January 5, 1932, Serial No. 501,770, December 12, 1930. Application for reissue July 1, 1933. Serial No. 678,698
19 Claims. (Cl. 229—30)



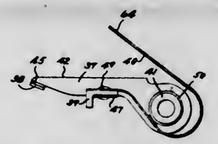
16. A cardboard cigar box comprised of a bottom and side and end walls of substantial thickness, rigidity and strength, each wall being comprised of a plurality of laminations of cardboard in adhesively secured relation, the outer lamination of the walls and of the bottom being formed from a relatively thin cardboard blank, the wall-forming flaps of said blank being of such area as to approximately cover the respective juxtaposed surfaces of adjacent laminations, the plurality of laminations of the side walls of the box having their respective upper edges in substantial registration to form a seat for a lid, and the outer lamination of the end walls terminating at a level above the upper edge of the side walls by approximately the thickness of a lid.

19,082
DUPLICATOR
Hans K. Lorentzen, New York, N. Y., assignor to Ditto Incorporated, a corporation of West Virginia
Original No. 1,760,152, dated May 27, 1930, Serial No. 97,189, March 25, 1926. Application for reissue May 24, 1932. Serial No. 613,331
28 Claims. (Cl. 101—132)



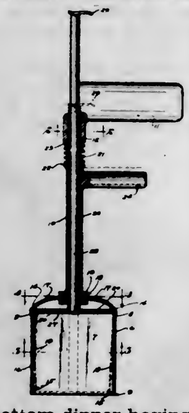
1. In a rotary duplicator, an impression drum having a duplicating band, a platen roll cooperating with said drum, a roll feeding a sheet of paper in one direct continuous movement toward said drum to a position wherein it will be engaged by said duplicating band and said platen roll, means operatively connecting said feeding roll to said impression drum to rotate it in synchronism therewith, a movable table, and means connected with said drum to operate in synchronism therewith for displacing said table to bring said sheet of paper into frictional engagement with said feeding roll.

19,083
CIRCUIT BREAKER LEVER
Charles Hall Davis, Jr., deceased, late of Anderson, Ind., by Delco-Remy Corporation, Anderson, Ind., assignee
Original No. 1,851,568, dated March 29, 1932, Serial No. 467,254, July 11, 1930. Application for reissue May 6, 1933. Serial No. 669,655
47 Claims. (Cl. 200—30)



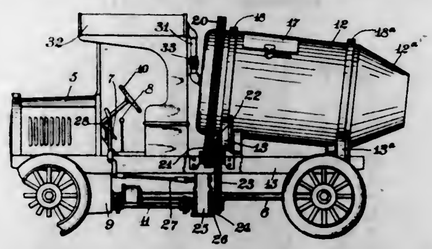
3. A circuit breaker lever comprising, in combination, two juxtaposed plates located in planes at right angles to the axis of oscillation of the lever and provided respectively with oppositely extending, integral flanges located in the same plane parallel to the axis of the lever, a rubbing block secured to both flanges, a leaf spring secured to both flanges, a bearing carried by the plates, and a contact secured to both plates.

19,084
ICE CREAM DIPPER
Ora E. Harris, Kearney, Nebr.
Original No. 1,831,386, dated November 10, 1931, Serial No. 433,642, March 6, 1930. Application for reissue September 28, 1933. Serial No. 691,404
7 Claims. (Cl. 107—48)



1. An open bottom dipper having a hand-piece equipped stem, said dipper having on its lower edge a continuous cutting edge, a jaw movable entirely within the cutting edge and a connection for operating the law to cause the ice cream in the dipper to break flush with the open bottom thereof.

19,085
TRUCK CONCRETE MIXER
Gebhard Jaeger, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Original No. 1,801,162, dated April 14, 1931, Serial No. 264,347, March 24, 1928. Application for reissue November 1, 1932. Serial No. 640,729
8 Claims. (Cl. 83—73)



1. A mixing drum for concrete materials and the like consisting of a substantially cylindrical portion having a frusto-conical discharging portion at one end, spirally arranged blades in said cylindrical portion, and blades in said frusto-conical portion, said drums adapted for rotation in opposite directions, the blades in said cylindrical portion adapted to mix the materials when the drum is rotated in one direction and the blades in the frusto-conical portion adapted to discharge the mixed materials from the drum when the drum is rotated in the opposite direction.

DESIGNS

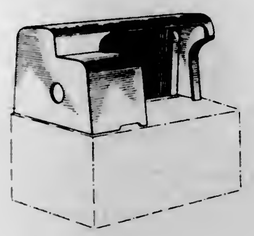
FEBRUARY 13, 1934

91,477
DESIGN FOR AN EMBLEM OR SIMILAR ARTICLE
Morris Biers, Brooklyn, N. Y.
Application November 11, 1933. Serial No. 49,699
Term of patent 3½ years



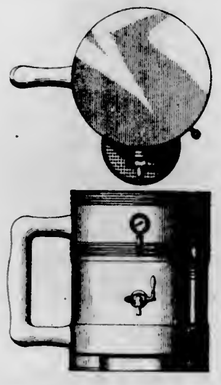
The ornamental design for an emblem or similar article, as shown.

91,478
DESIGN FOR A COMBINED PHONOGRAPH HOOD AND SUPPORTING BASE THEREFOR
Leland Stanford Briggs, Douglaston, N. Y., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application October 3, 1933. Serial No. 49,397
Term of patent 14 years



The ornamental design for a combined phonograph hood and supporting base therefor substantially as shown and described.

91,479
DESIGN FOR A LIQUID DISPENSER
Paul W. Du Par, Los Angeles, Calif.
Application October 2, 1933. Serial No. 49,393
Term of patent 7 years



The ornamental design for a liquid dispenser as shown.

91,480
DESIGN FOR A SHOE
Ferdinand W. Ellington, Jamaica, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application December 19, 1933. Serial No. 50,129
Term of patent 3½ years



The ornamental design for a shoe as shown.

91,481
DESIGN FOR A SHOE
Ferdinand W. Ellington, Jamaica, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application December 19, 1933. Serial No. 50,130
Term of patent 3½ years



The ornamental design for a shoe as shown.

91,482
DESIGN FOR A SHOE
Ferdinand W. Ellington, Jamaica, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application December 19, 1933. Serial No. 50,131
Term of patent 3½ years



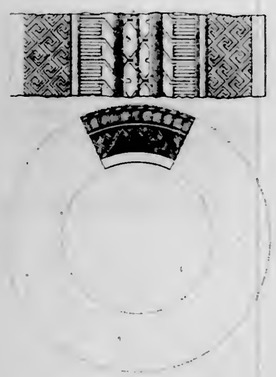
The ornamental design for a shoe as shown.

91,483
DESIGN FOR A SHOE
Ferdinand W. Ellington, Jamaica, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application December 19, 1933. Serial No. 50,132
Term of patent 3½ years



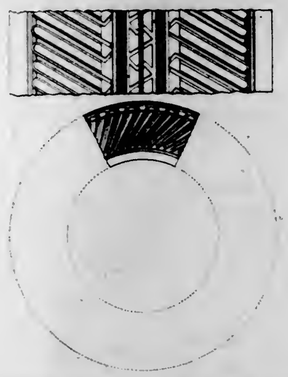
The ornamental design for a shoe as shown.

91,484
DESIGN FOR A TIRE
Michael J. Flynn, Chicago, Ill.
Application December 1, 1933. Serial No. 49,904
Term of patent 14 years



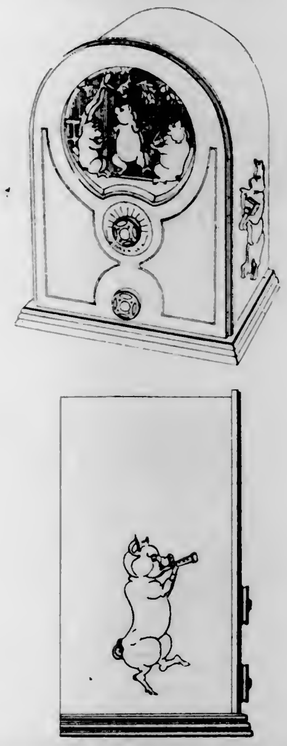
The ornamental design for a tire substantially as shown.

91,485
DESIGN FOR A TIRE
Michael J. Flynn, Chicago, Ill.
Application December 1, 1933. Serial No. 49,903
Term of patent 14 years



The ornamental design for a tire substantially as shown.

91,486
DESIGN FOR A RADIOCABINET
Robert Himmel, Chicago, Ill.
Application November 13, 1933. Serial No. 49,713
Term of patent 7 years



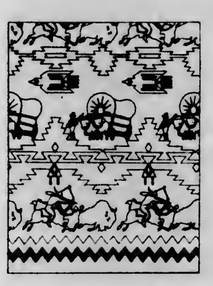
The ornamental design for a radiocabinet as shown and described.

91,487
DESIGN FOR A COMBINATION COOKING UTENSIL
John C. Johnson, Birmingham, Ala.
Application November 29, 1933. Serial No. 49,894
Term of patent 14 years



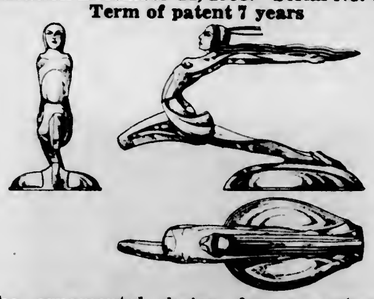
The ornamental design for a combination cooking utensil, as shown and described.

91,488
DESIGN FOR A BLANKET
Joseph L. Kyle, Glendale, Long Island, N. Y., assignor to Whittenton Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application May 9, 1933. Serial No. 48,057
Term of patent 14 years



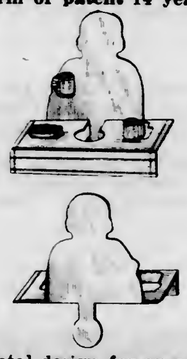
The ornamental design for a blanket or similar article as shown and substantially as described.

91,489
DESIGN FOR AN AUTOMOBILE RADIATOR ORNAMENT OR SIMILAR ARTICLE
Bonnie E. Lemm, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application December 14, 1933. Serial No. 50,076
Term of patent 7 years



The ornamental design for an automobile radiator ornament or similar article substantially as shown.

91,490
DESIGN FOR AN ADVERTISING DISPLAY CARD
Harry Lewy, Baltimore, Md., assignor of one-half to George P. Kimmel, Washington, D. C.
Application September 28, 1933. Serial No. 49,372
Term of patent 14 years



The ornamental design for an advertising display card substantially as shown and described.

91,491
DESIGN FOR A COOKY
Margaret D. MacKinnon, Hollywood, Calif.
Application December 9, 1933. Serial No. 49,999
Term of patent 3½ years



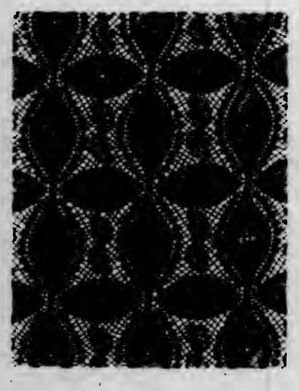
The ornamental design for a cooky, as shown.

91,492
DESIGN FOR A CARPET
Francis S. Murphy, Bronx, N. Y., assignor to Bigelow Sanford Carpet Co., Inc., a corporation of Massachusetts
Application August 31, 1933. Serial No. 49,176
Term of patent 7 years



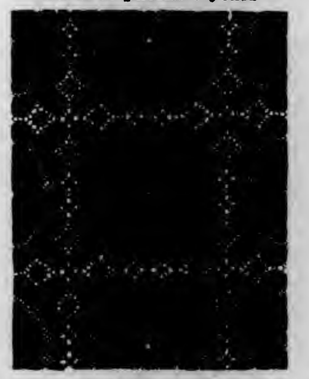
The ornamental design for a carpet substantially as shown and described.

91,493
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application December 29, 1933
Serial No. 50,247
Term of patent 7 years



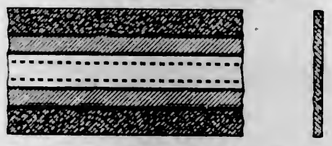
The ornamental design for lace, substantially as shown.

91,494
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application January 10, 1934. Serial No. 50,364
Term of patent 7 years



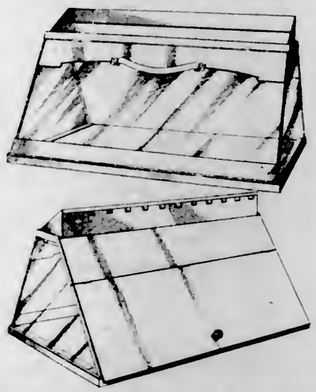
The ornamental design for lace, substantially as shown.

91,495
DESIGN FOR A LEATHER BELTING FOR WAIST BELTS OR SIMILAR ARTICLE
Eugene O. Peabody, Fort Washington, Pa.
Application September 8, 1933. Serial No. 49,221
Term of patent 14 years



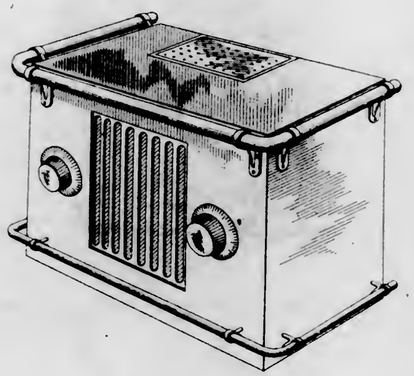
The ornamental design for a leather belting for waist belts or similar article, substantially as shown and described.

91,496
DESIGN FOR A COUNTER DISPLAY CASE
Franklin J. Petzke, Minneapolis, Minn.
Application December 4, 1933. Serial No. 49,932
Term of patent 3½ years



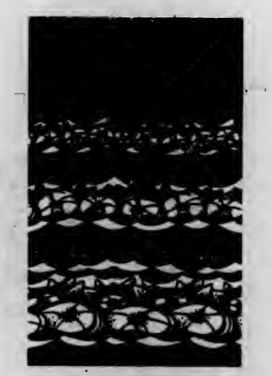
The ornamental design for a counter display case, as shown.

91,497
DESIGN FOR A RADIOCABINET
Joseph L. Raffetto, New York, N. Y.
Application December 9, 1933. Serial No. 49,997
Term of patent 7 years



The ornamental design for a radiocabinet, as shown.

91,498
DESIGN FOR A TEXTILE FABRIC
Paul Reiman, New York, N. Y., assignor to Apollo Fabrics, Inc., New York, N. Y., a corporation of New York
Application December 28, 1933. Serial No. 50,233
Term of patent 3½ years



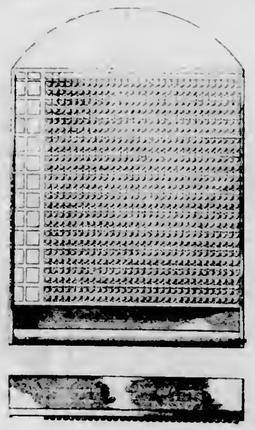
The ornamental design for a textile fabric, substantially as shown and described.

91,499
DESIGN FOR A TEXTILE FABRIC
Paul Reiman, New York, N. Y., assignor to Apollo Fabrics, Inc., New York, N. Y., a corporation of New York
Application December 28, 1933. Serial No. 50,234
Term of patent 3½ years

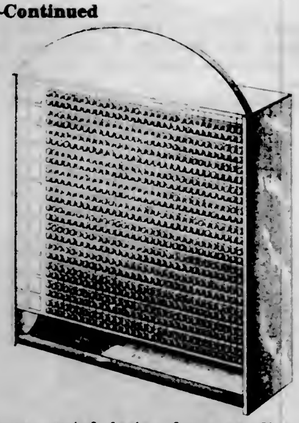


The ornamental design for a textile fabric, substantially as shown and described.

91,500
DESIGN FOR A VENDING MACHINE CASING
Jean Rinaldi, New York, N. Y.
Application April 3, 1933. Serial No. 47,683
Term of patent 3½ years

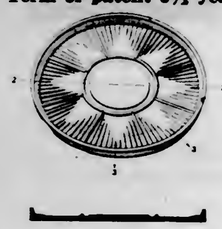


91,500—Continued



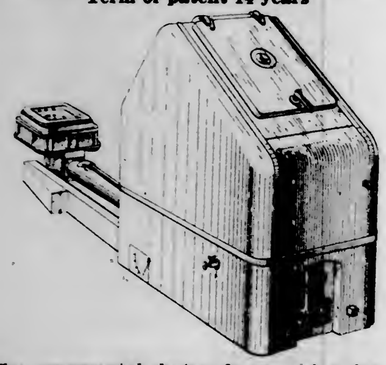
The ornamental design for a vending machine casing, as shown.

91,501
DESIGN FOR A COASTER
Mark W. Roe, Cumberland, Md., assignor to The Kelly-Springfield Tire Company, Cumberland, Md., a corporation of New Jersey
Application November 24, 1933. Serial No. 49,839
Term of patent 3½ years



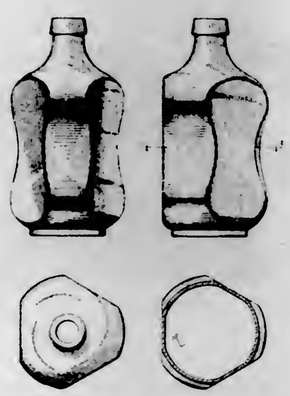
The ornamental design for a coaster as shown.

91,502
DESIGN FOR A CASING FOR COAL BURNING STOKERS
Edward C. Sammons, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application November 17, 1933. Serial No. 49,771
Term of patent 14 years



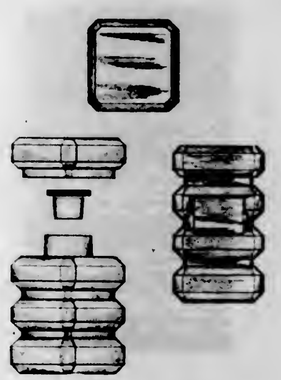
The ornamental design for a casing for coal burning stokers, as shown.

91,503
DESIGN FOR A BOTTLE
Joseph P. Sgueglia, New York, N. Y., assignor to Anthony Oechs & Company, Incorporated, New York, N. Y., a corporation of New York
Application November 20, 1933. Serial No. 49,803
Term of patent 7 years



The ornamental design for a bottle substantially as shown.

91,504
DESIGN FOR A BOTTLE OR SIMILAR ARTICLE
Joseph S. Stein, Chicago, Ill., assignor to Lucien Lelong Inc., Chicago, Ill., a corporation of Illinois
Application November 15, 1933. Serial No. 49,729
Term of patent 7 years



The ornamental design for a bottle or similar article, as shown.

91,505
DESIGN FOR A CASKET
Orien S. Strickland, Portales, N. Mex.
Application October 26, 1933. Serial No. 49,566
Term of patent 14 years



The ornamental design for a casket, as shown, and described.

91,506
DESIGN FOR A TEXTILE FABRIC OR THE LIKE
Hans Wilde, Cliffside Park, N. J.
Application January 6, 1934. Serial No. 50,330
Term of patent 3½ years

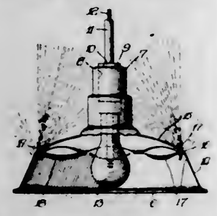


The ornamental design for a textile fabric or the like as shown.

PATENTS

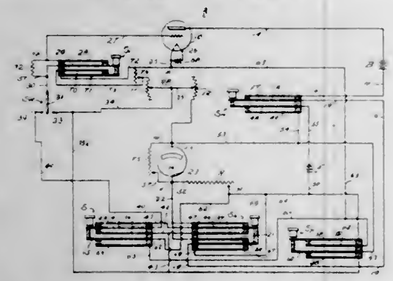
GRANTED FEBRUARY 13, 1934

1,946,465
LIGHTING REFLECTOR
George Arras, Chicago, Ill.
Application June 3, 1932. Serial No. 615,085
10 Claims. (Cl. 240—104)



1. A lighting reflector having rearwardly opening reflecting louvers in the material of which the reflector is made for diverting a portion of the light backwardly from the reflector.

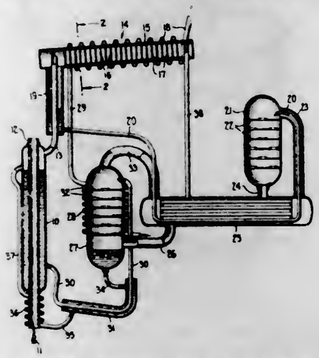
1,946,466
TUBE TESTER
Job R. Barnhart, Lakewood, Ohio, assignor of one-half to Walter M. Scott, Lakewood, Ohio, and one-half to Raleigh E. Tresise, Cleveland Heights, Ohio
Application July 29, 1931. Serial No. 553,866
7 Claims. (Cl. 250—27)



1. A tube tester including, a variable resistor, means, including a plate circuit in which said resistor and a meter are connected, for indicating when said resistor has been set to such a position that its setting is a measure of a tube characteristic, and means for establishing an electric circuit through said resistor and an electric meter whereby to indicate the value of the setting of said resistor on said electric meter.

1,946,467
CONDENSER FOR REFRIGERATING APPARATUS
Harry K. Bergholm and Hugo M. Ullstrand, Evansville, Ind., assignors to Electrolux Servel Corporation, New York, N. Y., a corporation of Delaware
Application March 14, 1932. Serial No. 598,604
10 Claims. (Cl. 257—28)

1. A condenser comprising a substantially horizontally disposed tube closed at each end, a gas inlet and liquid outlet at one end thereof, cooling means on the outside of said tube, and means within said tube to direct the gas in a path of flow



adjacent the wall thereof and allow the reverse flow of liquid along the bottom thereof.

1,946,468
ELECTRIC MOTOR
Theodore S. Bindschedler, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application August 14, 1931. Serial No. 557,051
10 Claims. (Cl. 172—276)

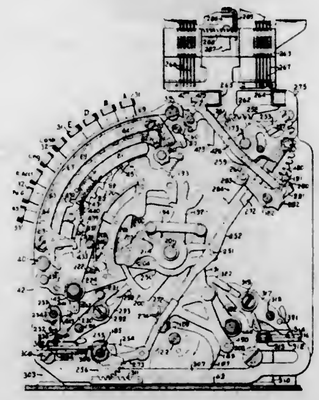


1. An electric motor for use on both alternating and direct currents having a field frame comprising individual groups of laminations of magnetically permeable material, said groups forming field poles, windings on said poles, nonmagnetic means supporting said groups of laminations in spaced relation to provide a split and balanced magnetic field, an armature within said field frame having a commutator, and a winding on said armature in series with the windings on said poles.

1,946,469
CASH REGISTER
Samuel Brand, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application March 22, 1930. Serial No. 438,208
41 Claims. (Cl. 235—7)

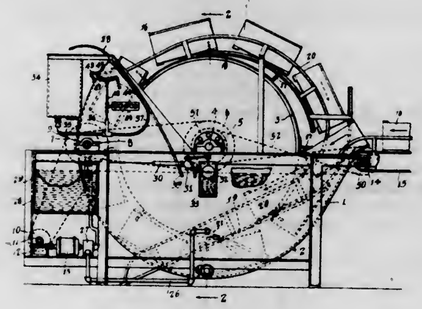
2. In a machine of the class described; the combination with a bank of keys divided into two groups; a differential arm; and means to drive the differential arm; of a latch to connect the differential with the driver; a latch arm pivotally

carried on the differential to cooperate with the keys of one group; and a bell crank pivoted on



the hub of the latch arm to cooperate with the keys of the other group.

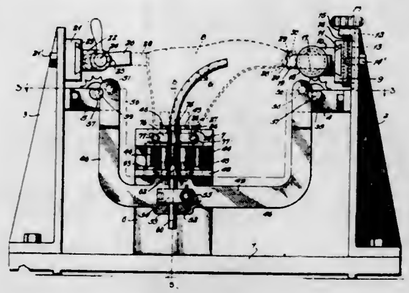
1,946,470
STERILIZING MACHINE FOR BOXES
Clinton C. Butler, Pomona, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application July 6, 1931. Serial No. 548,849
9 Claims. (Cl. 167—3)



5. In a machine of the type described, a treating tank containing a treating solution, means for continuously passing objects to be treated through said solution and means actuated by the passage of each object from the solution for forcing a predetermined amount of new solution into said tank.

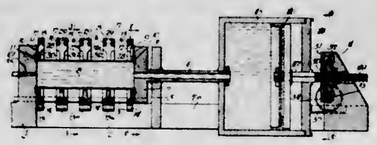
1,946,471
METHOD AND APPAPATUS FOR MOLDING HOLLOW ARTICLES
John Frederick Amos, Mishawaka, Ind.
Application November 17, 1930
Serial No. 496,288
16 Claims. (Cl. 22—193)

1. In the molding of hollow articles, the process which comprises forming a core with a definite predetermined relation to a carrier, transferring said core and carrier to a flask member while maintaining said relation, positioning said core relative to the flask member by said carrier, and



removing the carrier without disturbing the position of the core relative to the flask member.

1,946,472
MEANS FOR CORRUGATING TUBING
Henry H. Babcock, Oak Park, Ill., assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 30, 1932. Serial No. 626,356
5 Claims. (Cl. 153—73)

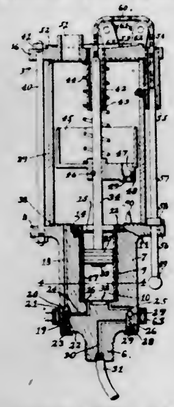


1. In means for forming corrugated tubular elements from tubular metal blanks, two heads disposed for reception therebetween of a tubular blank to be corrugated, one of the heads having an opening therethrough into the blank and being movable toward the other head, spaced die members mounted between the heads for relative movement toward each other and disposed to extend about the blank in operative relation thereto, and pressure applying means for supplying fluid under pressure through said opening for subjecting the blank to internal pressure while also subjecting said movable head to pressure and forcing it toward the other head, said pressure applying means comprising two members defining a space adapted for reception of a fluid under pressure, said space communicating with said opening and said members having relative movement axially of the blank for compensating for variations in the volume of the blank during corrugating thereof.

1,946,473
APPARATUS FOR INTRODUCING LUBRICATING OIL INTO GASOLINE
Albert I. Babendreer and William F. Dale, Ocean Springs, Miss.
Application December 1, 1932. Serial No. 645,293
19 Claims. (Cl. 221—103)

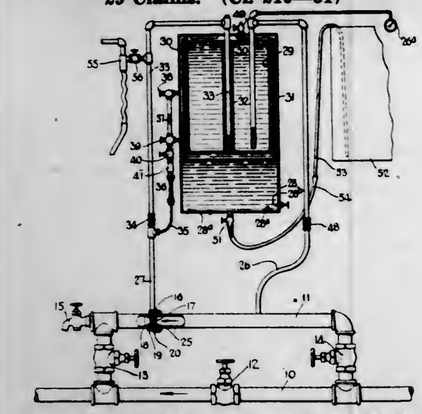
1. In an apparatus of the character described, a base, a reservoir for liquid carried by the base, means within the base and reservoir for dispensing measured quantities of liquid via the base, said dispensing means including a measuring cylinder and a piston, a piston rod, mechanical means to

force the piston to expel a measured charge from the measuring cylinder and manual means to op-



erate the piston for supplying the measuring cylinder with liquid from the reservoir.

1,946,474
AUTOMATIC FLUID FEED PROPORTIONING METHOD AND APPARATUS
Reginald M. Banks, Plainfield, N. J., and John H. Banks, New York, and Wilmot W. Burritt, Brooklyn, N. Y.; Elizabeth Gardner Burritt executrix of said Wilmot W. Burritt, deceased
Application March 16, 1929. Serial No. 347,686
29 Claims. (Cl. 210—31)



1. In the method of introducing a fluid into a stream of variable flow in substantially direct proportion to said flow, the steps which consist in producing a localized differential pressure in said stream substantially directly proportional to said flow and utilizing said pressure to feed said fluid into said stream.

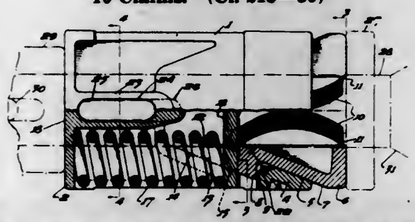
1,946,475
GASKET
George A. Barker, Rochester, N. Y.
Application October 20, 1932. Serial No. 638,769
9 Claims. (Cl. 288—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A gasket comprising a layer of cellular material, the cells arranged in rows, the cells of one row extending in a direction oblique with respect to the cells in the next adjacent row; and a layer of material capable of being penetrated



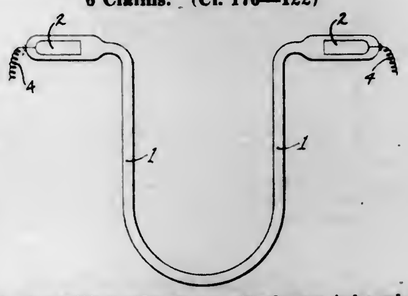
by the end edges of the cells of said first named layer.

1,946,476
CUSHIONING MECHANISM
Donald S. Barrows, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a corporation of Maryland
Application December 23, 1929
Serial No. 416,114
10 Claims. (Cl. 213—30)



3. Cushioning mechanism adapted for use with railway draft rigging comprising a housing, a normally horizontal partition dividing said housing into upper and lower compartments, a release spring fitting in each compartment, the walls of said compartments being curved to embrace said springs and hold them in place, the other end of said housing having inwardly converging walls providing friction surfaces terminating in shouldered portions, said shouldered portions having segmental notches cut therein, and the outer end of said partition being tapered, for the insertion and removal of said springs.

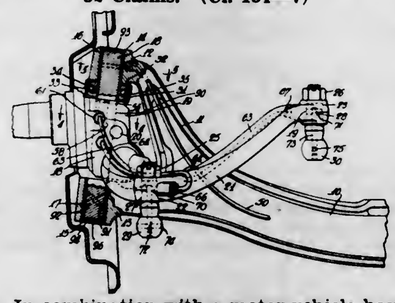
1,946,477
LUMINESCENT TUBE
Leo L. Beck, East Orange, N. J., and Aubrey E. Noble, Lynbrook, N. Y., assignors to Claude Neon Lights, Inc., New York, N. Y., a corporation of New York
Application November 15, 1929, Serial No. 407,415
Renewed November 2, 1933
6 Claims. (Cl. 176—122)



1. A positive column gas discharge tube which when operated radiates positive column light that appears substantially white to the eye of an observer, the tube containing a principal filling of helium which, alone, has a characteristic tan-colored positive radiation, together with just enough argon to bleach the tan helium radiation, upon operation of the tube, and thereby produce an aggregate radiation that creates the visual impression of whiteness.

CARNEGIE LIBRARY OF ATLANTA

1,946,478
LUBRICATION
Joseph Bijur, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware
Application February 28, 1931. Serial No. 518,933
32 Claims. (Cl. 184—7)

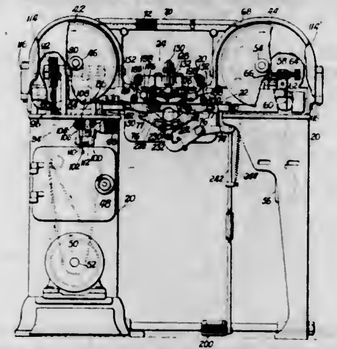


1. In combination with a motor vehicle having an axle and a knuckle pivotally attached thereto, a lubricating installation for the bearings associated therewith comprising a lubricant supply, a vented distributing receiver associated with said structure substantially below said source and below at least one of the bearings and above other of said bearings and a system of passageways leading from said source to said higher bearing and to said receiver and from said receiver to said lower bearings.

1,946,479
NITROCELLULOSE COATING COMPOSITION CONTAINING AN ACID BODY
Theodore F. Bradley, Westfield, N. J., assignor to Ellis-Foster Company, Montclair, N. J., a corporation of New Jersey
No Drawing. Application May 7, 1927
Serial No. 189,739
5 Claims. (Cl. 134—79)

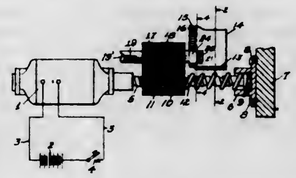
1. A lacquer composition containing nitrocellulose, a solvent therefor, phthalic anhydride and an additional crystallizable organic acid in amounts sufficient to exert a plasticizing action on the nitrocellulose.

1,946,480
HEEL COVER TRIMMING MACHINE
Charles G. Brostrom, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application June 20, 1930. Serial No. 462,653
64 Claims. (Cl. 12—42)



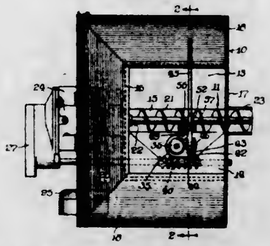
1. A trimming machine having, in combination, a curved cutting blade and a gage positioned adjacent to said blade, said blade being constructed and arranged to skive to a feather edge a margin of a cover which has been secured to a concave face of a heel as the gage progressively engages the cover margin before corresponding portions of the cover margin are progressively engaged by the cutting blade to guide the heel past the blade.

1,946,481
ENGINE STARTER
Charles S. Burnett, San Francisco, Calif.
Application April 25, 1933. Serial No. 667,826
6 Claims. (Cl. 74—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an engine starter, a drive gear on the engine to be started, a shaft, a pinion mounted on said shaft and adapted to be moved into and out of engagement with said drive gear, means for normally holding said pinion out of engagement with said gear, means for moving said pinion into engagement with said gear when starting said engine, and a mechanism automatically setting the teeth of said pinion in alignment with the teeth of said gear prior to engagement thereof with said gear, said mechanism including a control pinion meshing with said first named pinion and means for controlling the operation of said control pinion.

1,946,482
FEEDING DEVICE FOR STOKERS
Warren Dean Burton, Goshen, Ind., assignor to Combustioneer, Inc., Goshen, Ind., a corporation of Illinois
Application November 5, 1931. Serial No. 573,088
3 Claims. (Cl. 259—44)



1. In a stoker, the combination of a hopper having means for conveying fuel therefrom, a vertical shaft projecting into said hopper through the bottom thereof, means for driving said shaft, a collar located in the lower portion of said hopper and drivingly connected with said shaft, an agitating arm extending sidewardly and upwardly from said collar, a lateral projection on said collar having a recess therein to receive one end of said arm, means for pivotally connecting said arm and said collar and projection together, and resilient means for urging said arm downwardly and outwardly towards the walls of said hopper.

1,946,483
SURFACE DECORATING METHOD AND APPARATUS

Lloyd V. Casto, Detroit, Mich., and Guido von Webern, Dayton, Ohio, assignors to Oxford Varnish Corporation, Detroit, Mich., a corporation of Michigan

Application May 28, 1930. Serial No. 456,319
5 Claims. (Cl. 101—35)

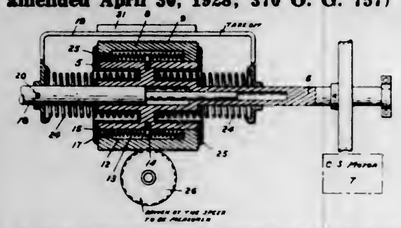


1. A method of decorating the surfaces of articles having relatively abrupt bends, comprising supporting the article adjacent a moving pigment applying member, continuously supplying a pigment pattern to the member, and continuously applying rolling pressure to the surface of the article opposite the pigment applying member to thereby cause the article to be frictionally driven bodily while allowing it to swing freely in the general plane of the article as required by the successive bends thereof.

1,946,484
RATE MECHANISM

Richard C. Coupland, United States Army, Norfolk, Va.

Original application April 2, 1929, Serial No. 351,897. Divided and this application March 31, 1932. Serial No. 602,364
3 Claims. (Cl. 264—9)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



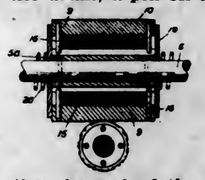
1. A rate mechanism including a shaft adapted to be driven at a constant speed, a drum fast on said shaft, a plurality of racks mounted on the periphery of the drum for movement longitudinally thereof, springs engaging opposite end portions of the racks and normally maintaining the racks in neutral position, a pressure plate at each end of the drum overlying the ends of the racks, a bridge having ends spaced from the pressure plates, resilient means between each pressure plate and each adjacent bridge end, a gear the rate of which is to be indicated by said bridge positioned to mesh with the racks for displacing them longitudinally of the drum, and means for temporarily holding a rack in the position of its displacement.

1,946,485
RATE MECHANISM

Richard C. Coupland, United States Army, Norfolk, Va.

Application June 7, 1932. Serial No. 615,869
25 Claims. (Cl. 264—9)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a rate mechanism, a rotatable shaft, a drum fast on said shaft, a plurality of tongues, T-shaped in cross-section, formed on the drum, each of said tongues having a recess intermediate its ends and a channel in the floor of the recess and extending the entire length of the drum, a plurality of grooved slides, each fitting on one of the tongues of the drum, a pin on each end of a

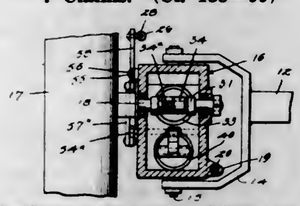


slide riding in the channel of the drum, a coil spring disposed in the recess of the drum with its ends engaged by the pins of the slide, a member at each end of the drum receiving the movements of the slides, and a pinion for displacing the slides.

1,946,486
VEHICLE BRAKE

Adam G. Cushing, Vancouver, Wash.

Application November 26, 1932
Serial No. 644,501
7 Claims. (Cl. 188—99)

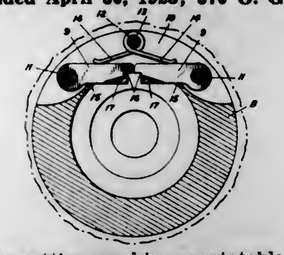


1. A braking means comprising a crank shaft rotatable with a vehicle wheel, a housing about the shaft, opposed cylinders in the housing, pistons slidable in the cylinders, connecting rods connecting the pistons and the crank shaft, a liquid in the cylinders and housing, each of said cylinders having a port communicating with the housing, a valve for each port, valve operating means, and means engaging the valves resisting closing of the valves.

1,946,487
FUSE SETTING MACHINE

August Dabrasky, Washington, D. C.

Original application January 4, 1932, Serial No. 584,611. Divided and this application March 15, 1932. Serial No. 598,976
1 Claim. (Cl. 86—23)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



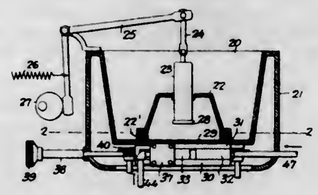
In a fuse setting machine, a rotatable adjusting member having a transverse slot adjacent one end, a pair of opposed levers pivotally mounted at the end of the slot and having their inner ends projecting into the interior of the adjusting member,

said levers intermediately engaging the wall of the adjusting member to limit rotation inwardly, a pin positioned above the free ends of the levers, and a spring carried by the pin and having an arm engaging each lever.

1,946,488
MACHINE FOR MAKING PRINTERS' LEADS AND RULES

George H. M. Dahl, Washington, D. C.

Application February 1, 1929. Serial No. 336,832
35 Claims. (Cl. 199—1)



1. A machine for making printers' leads, rules and furniture comprising a melting pot, a closed chamber therein, a demountable mold immediately underneath the pot, a horizontal molding passage in the mold communicating with the closed chamber by way of a port extending directly through the bottom of the pot to a straight-line passage registering at one end with said port and merging at the other end with said horizontal passage and means for forcing the molten metal in a continuous flow from said chamber through said passage.

1,946,489
METHOD FOR RECOVERING IN CONCENTRATED FORM GAS EXISTING IN DILUTE ADMIXTURE WITH OTHER GASES

Fredrik W. de Jahn, New York, N. Y., assignor to Jacob D. Jenssen, New York, N. Y.

Application May 17, 1932. Serial No. 611,818
12 Claims. (Cl. 23—180)

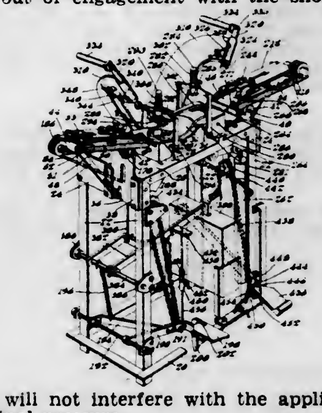
1. The method of extracting a soluble gas or vapor component from gaseous mixtures containing the same, which comprises absorbing such component in a first solvent, abstracting the dissolved component from such solvent with a second solvent which is immiscible with said first solvent, and then expelling the gaseous component from said second solvent.

1,946,490
MACHINE FOR PRESSING SOLES UPON SHOES AND PAD THEREFOR

Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application April 3, 1929. Serial No. 352,278
125 Claims. (Cl. 12—33)

108. In a machine for use in the manufacture of shoes, the combination of a pad, sole holding and shoe locating members movable into and out of position over the pad, means for moving said members over the pad to engage a sole and to locate a shoe with respect to the sole, means for applying preliminary pressure to the shoe to press it upon the pad, means for applying final pressure to the pad to force it against the shoe, and means operating as an incident to the application of said final pressure for withdrawing the sole holding and shoe locating members out of engagement with the shoe so that

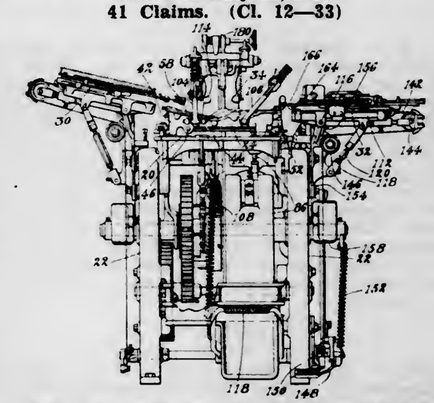


they will not interfere with the application of the final pressure.

1,946,491
SHOE AND SOLE POSITIONING MECHANISM

Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Patcrson, N. J., a corporation of New Jersey

Application December 16, 1929, Serial No. 414,516
Renewed May 11, 1932
41 Claims. (Cl. 12—33)



35. In a machine for use in cement-attaching soles to shoes, a pad upon which a sole and shoe are positioned while sole-attaching pressure is applied thereto and mechanism for positioning the heel end portions of a sole and shoe on the pad comprising a carriage, means for moving the carriage toward the heel end of a sole on the pad, means for holding the carriage against further movement when it has reached a position determined by reference to the heel end of the sole, a set of sole-engaging feelers mounted on the carriage for movement therewith and arranged for movement toward each other widthwise of the sole thereby to be positioned by engagement with the edges of the sole, a set of shoe-positioning feelers mounted on the carriage and held spaced apart during the movement of the carriage by a distance greater than the width of the counter portion of the shoe which they are to position, means for releasing said shoe-positioning fingers operable after the sole-engaging fingers have been positioned by a sole to permit widthwise movement of the shoe-positioning fingers into engagement with the counter portions of a

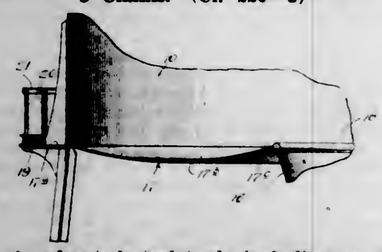
shoe located on the sole, and means constructed and arranged to maintain the shoe-engaging fingers symmetrically located relatively to the sole-engaging fingers whereby the shoe will be positioned symmetrically relatively to the sole regardless of substantial variations in the position of the sole on the pad.

1,946,492
SUBMARINE SALVAGING SYSTEM
Pablo Vilar Florido, United States Navy
Application May 24, 1932. Serial No. 613,247
2 Claims. (Cl. 114—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a submarine salvaging means, in combination, a unit carried by a submarine, a head at the outer end thereof, a unit carried by a salvaging ship, an expansible mouth at the outer end thereof for engagement over the head of the submarine unit, co-acting means carried by the head and the mouth to prevent their separation after engagement, means cooperating with the submarine unit for guiding the salvaging ship unit into engagement therewith, said last mentioned means including a cable attached to the submarine unit and a buoy secured to its outer end to carry the cable to the surface of the water, and a severable cable guide carried by the salvaging ship unit.

1,946,493
TANK
George T. Horton, Chicago, Ill., assignor to Chicago Bridge & Iron Company, Chicago, Ill., a corporation of Illinois
Application June 2, 1932. Serial No. 614,999
5 Claims. (Cl. 220—3)



1. An elevated steel tank, including; a cylindrical body portion supported on posts with a sheet metal bottom having a relatively slight downward curvature and having a central opening; a central riser pipe connected to the opening in the bottom; and a circular tension member supported by the riser pipe with the inner edge of the bottom attached thereto.

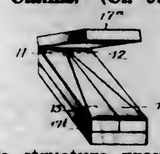
1,946,494
TANK CONSTRUCTION
George T. Horton, Chicago, Ill., assignor to Chicago Bridge & Iron Company, Chicago, Ill., a corporation of Illinois
Application June 13, 1932. Serial No. 617,004
5 Claims. (Cl. 29—148.2)



1. The method of attaching an outwardly curved head, substantially less than a hemisphere to a cylindrical pressure tank, comprising, placing a ring compression member between the adjacent edges of the shell and head, and welding the edges of the shell and head to said ring compression member.

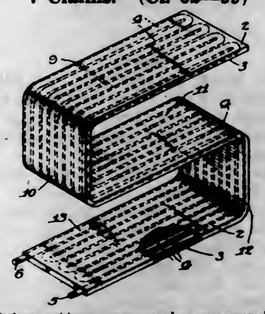
2. A cylindrical pressure tank, including; a cylindrical shell; an outwardly curved head substantially less than a hemisphere; and a ring compression member between the adjacent edges of the shell and head, the edges of the shell and head being welded to said ring compression member.

1,946,495
ICE BOX CAKE AND THE LIKE
W. Bartlett Jones, Chicago, Ill.
Application November 4, 1931. Serial No. 572,930
6 Claims. (Cl. 99—11)



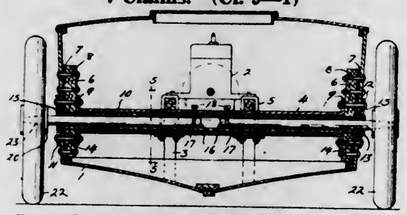
1. An edible structure provided in parts capable of assembly into a combination providing a well, said parts including a deck layer and a well-forming or fence layer of equal perimetric form, one of said layers containing double parts capable of being piled to present half the area, the area of the fence layer being one-half the area of the deck layer.

1,946,496
REFRIGERATING APPARATUS
Herman W. Kleist, Chicago, Ill., assignor to Dole Refrigerating and Machine Company, Chicago, Ill., a corporation of Illinois
Application December 20, 1930
Serial No. 503,664
7 Claims. (Cl. 62—99)



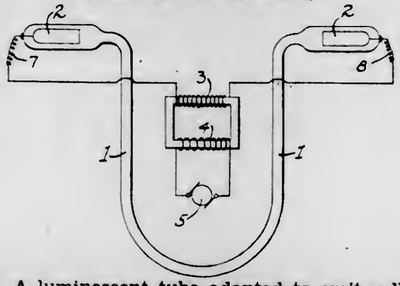
5. A refrigerating apparatus comprising a food receiving receptacle provided with heat insulating walls, a refrigerating element within said receptacle and extending across the top and the bottom thereof and between which the food is received, said refrigerating element comprising two separated metal plates, a coiled pipe between them and through which the refrigerating material is circulated.

1,946,497
TRAILER ATTACHMENT FOR MOTOR BOATS
Gordon E. Little, Roseville, Mich.
Application May 11, 1932. Serial No. 610,635
7 Claims. (Cl. 9—1)



1. In a device of the character described, the combination with a boat, of an inner and an outer tubular member extended within the boat transversely thereof, filler members interposed between the ends of the outer tubular member and the sides of the boat, the inner tubular member terminally extending through said filler members and through the sides of the boat, an axle positioned within the inner tubular member, a pair of ground wheels carried by said axle at opposite sides of the boat, and means normally restraining said axle from movement lengthwise of said tubular members.

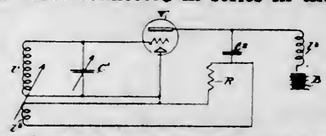
1,946,498
ELECTRIC DISCHARGE DEVICE
Aubrey E. Noble, Lynbrook, N. Y., assignor to Claude Neon Lights, Inc., New York, N. Y., a corporation of New York
Application November 15, 1929
Serial No. 407,413
2 Claims. (Cl. 176—122)



1. A luminescent tube adapted to emit yellow light comprising an envelope transparent to yellow rays and having an external diameter of the order of 11 to 15 millimeters, a filling of helium at a pressure of the order of 3 to 5 millimeters and a cold cathode comprising the decomposition products of an alkaline earth oxygenated compound.

1,946,499
AUTOMATIC REGENERATION CONTROL FOR VACUUM TUBE CIRCUITS
Donald W. Norwood, United States Army, March Field, Calif.
Application October 10, 1928. Serial No. 311,633
1 Claim. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

In a system of radio communication, comprising a tuned oscillatory circuit and an inductance in said circuit, the combination of a feedback circuit; means in said feedback circuit for controlling regeneration or oscillations consisting of an adjustable coil having a predetermined coupling relation with the inductance; an impedance of constant value connected in series in the feedback circuit; and a non-inductive, non-capacitative fixed radio frequency resistance element in parallel with said feedback circuit to retard the feedback of energy and compensate for loss of coupling efficiency in proportion to frequency change of said tuned circuit.

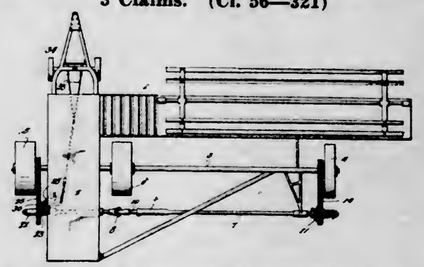


1,946,500
BASKET LINING FOR CENTRIFUGALS
Eugene Roberts, Hastings, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah, a corporation of Utah
Application January 28, 1933. Serial No. 654,042
7 Claims. (Cl. 210—76)



1. A foraminous filter supporting grid element for a centrifugal basket having relatively large openings for the passage of liquid, the upper and lower edge portions of said grid being provided with circumferentially extending selvage strips of yielding material adapted to form sealing contact with the inside face of the basket adjacent to the top and bottom members thereof to provide a drainage support for an interiorly disposed filtering element, while preventing leakage of the material being treated around the edges of the filtering element.

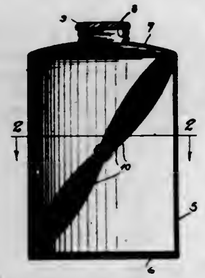
1,946,501
MEANS FOR OVERCOMING SIDE DRAFT
Lutie A. Roggensack, Moorhead, Minn.
Application August 6, 1932. Serial No. 627,772
3 Claims. (Cl. 56—321)



1. An attachment for agricultural machines comprising a shaft, means for mounting said

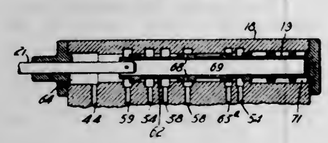
shaft at the rear of the machine, an axle, ground wheels on the axle, means for operatively connecting said shaft with one of the ground wheels whereby the shaft will be positively driven from said ground wheel, a sprocket wheel loose on the shaft, a friction device engaging the sprocket wheel, and means forming a connection between the sprocket wheel and another ground wheel.

1,946,502
ETHER PACKAGE AND METHOD OF PACKAGING ETHER
Joseph Rosin, Plainfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
Application January 27, 1931. Serial No. 511,463
6 Claims. (Cl. 23—239)



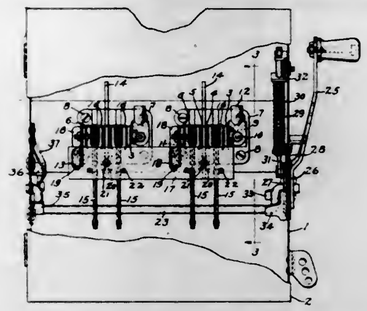
1. The method of preserving ether from deterioration in commercial containers, comprising the storing of ether in the presence of a preservative element, consisting of an integral member of metallic iron in a form presenting a multiplicity of exposed faces immersed in the ether, said member being arranged in a flexible, resilient bundle or sheaf of a length slightly greater than the transverse longitudinal diameter of the container, adapted to assume an angular position within the container and to be rigidly retained in such position by engagement of its opposite ends within the corners formed by the walls of the container.

1,946,503
GEAR PUMP AND MOTOR CONTROL MECHANISM
Robert A. Schafer, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a corporation of Indiana
Application June 23, 1931. Serial No. 546,283
14 Claims. (Cl. 60—52)



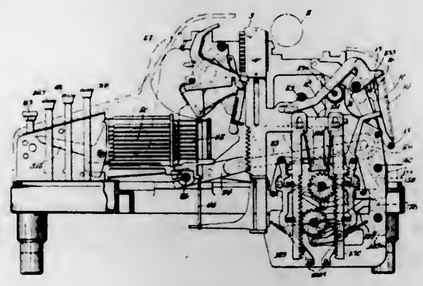
1. An hydraulic transmission combining a propulsion motor operable in forward and reverse directions; a source of hydraulic fluid under pressure; fluid conduits and valve control means therein for selectively directing the fluid to and from said motor to cause a cycle of forward and reverse movements thereof, said valve control means also having two distinct neutral positions, within its normal range of movement for said cycle in which no fluid is admitted to said motor.

1,946,504
ELECTRIC CIRCUIT CONTROLLING APPLIANCE
Joseph Sachs, West Hartford, Conn.
Application September 16, 1931
Serial No. 563,148
15 Claims. (Cl. 200—145)



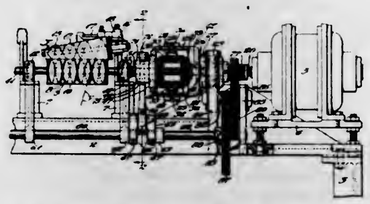
1. In an electric switch, the combination of two similar transversely spaced pairs of stationary switch contacts arranged with adjacent contacts of the two pairs electrically connected with each other, a transverse cranked operating member, and two similar transversely spaced rectilinearly movable switching members free from direct mechanical connection with each other but both connected with the operating member for movement in unison parallelly with each other, each switching member comprising a contact element adapted to engage and disengage the two stationary switch contacts of the corresponding pair.

1,946,505
PLURAL-COUNTER COMPUTING MACHINE
Oscar J. Sundstrand, Rockford, Ill., assignor to Sundstrand Corporation, Wilmington, Del., a corporation of Delaware
Application November 29, 1927, Serial No. 236,575. Renewed May 2, 1932
33 Claims. (Cl. 235—60)



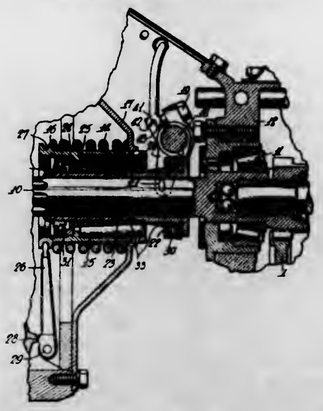
1. The combination of two counters mounted on separate and independent axes, means for rotating the counters in one direction, means at the diametrically opposite side of the counters for rotating the latter in the opposite direction, and means to control the engagement of the counters with said rotating means, said controlling means being arranged to prevent both counters from being engaged by one of said rotating means at the same time.

1,946,506
WINDING MACHINE
Ernest R. Swanson and William Marcroft, Cranston, R. I., assignors to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application December 16, 1929, Serial No. 414,527
Renewed June 23, 1933
9 Claims. (Cl. 242—18)



1. In a winding machine, the combination of means for rotatably supporting a yarn-package, a grooved traverse-roll for rotating the package by surface contact therewith while acting to traverse the yarn longitudinally thereof, and means for driving the traverse-roll at such a variable speed that the package is rotated at substantially constant peripheral speed due to the slippage between the surface of the package and the traverse-roll whereby a periodic change in ratio between the speed of the package and the traverse of the yarn axially thereof is obtained to prevent ribbon winding.

1,946,507
CLUTCH CONTROL LUBRICATION
Thomas R. Thomas, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware
Application November 30, 1928
Serial No. 322,869
39 Claims. (Cl. 192—113)

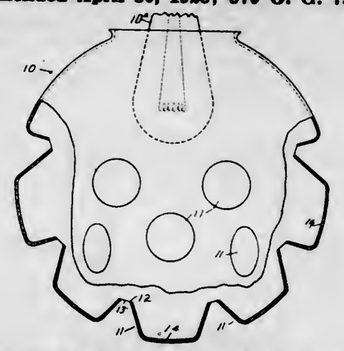


1. The combination of a clutch case, a shaft therein having a slidable clutch release collar thereon, and means for conveying lubricant to said collar, said means comprising a lubricant inlet fixed on the case, a peripheral receiver adjacent said collar and substantially inside of the part to receive lubricant, a conduit extending from said inlet, terminating shortly above said receiver and dripping thereonto and means associated with for delivering lubricant therefrom to the inside of said bearing.

1,946,508
ANTITARNISHING MATERIAL FOR SILVERWARE AND OTHER METALS AND PROCESS OF PRODUCING THE SAME
Arthur E. Thurber and Raymond H. Sholtz, Sherrill, N. Y., assignors to Oneida Community, Limited, Oneida, N. Y., a corporation of New York
No Drawing. Application December 9, 1931, Serial No. 579,982. Renewed May 12, 1933
10 Claims. (Cl. 92—21)

1. As a new article of manufacture, paper or other material the sulphur compounds of which have been rendered inactive as to tarnishing effect on silver or other tarnishable metals by the use of a soluble copper compound.

1,946,509
INSECT TRAP
Webb Trammell, United States Navy
Application April 4, 1932. Serial No. 603,158
1 Claim. (Cl. 43—122)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

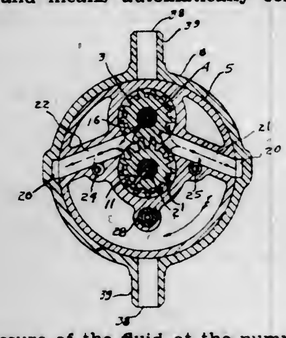


A fly or insect trap comprising in combination a glass globe of uniform diameter, contour and thickness, having a substantial opening through its top, the edge of said opening being formed of a narrow flange by which said globe is adapted to be solely held, an electric light of substantially lesser diameter than said opening and extending partially through said opening, said globe being provided in its bottom and at spaced intervals about its lateral periphery with a plurality of hollow frustrums of cones formed integral with the glass of the globe and open at both ends, the longitudinal axes of said cones when extended are adapted to converge at the glow point of said light, said globe being substantially translucent and the openings through the cones and the top opening being thus adapted to afford greater attraction for insects than other portions of the globe, and a destructive fluid within said globe of substantially uniform depth in all the vertical and lateral positions to which the globe may be moved, and the length of said cones being in excess of the depth of the fluid and adapted to be surrounded by and to prevent the escape therethrough of the fluid in said different positions of the globe.

1,946,510
HYDRAULIC MECHANISM
Fred A. Truesdell, Cleveland, Ohio
Application May 30, 1930. Serial No. 457,650
20 Claims. (Cl. 103—1)

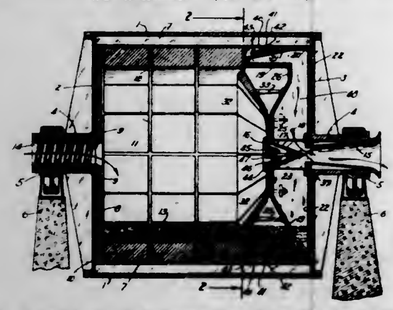
1. The combination with a fluid pump, of a rotatable distributor valve controlling the flow

of fluid through the intake and outlet of said pump, and means automatically controlled by



the pressure of the fluid at the pump outlet for indexing said valve.

1,946,511
DISCHARGE FOR BALL MILLS
Elmer L. Van Pelt, Denver, Colo., assignor to American Ball-Mill Company, Denver, Colo., a corporation of Colorado
Application October 5, 1931. Serial No. 566,939
13 Claims. (Cl. 83—9)



1. A mill of the character described, comprising a substantially cylindrical shell provided at its ends with closure heads, each of the heads having a tubular trunnion concentric with the shell, the opening through one trunnion forming the feed and the opening through the other forming the discharge, the inside of the shell having liners which form the outer wall of a crushing compartment, suitable attrition bodies in the crushing compartment, a plurality of substantially triangular hollow grate assemblies located between one end of the lining and the discharge head, each assembly having an outer and an inner wall, a portion of the inner wall being inclined towards the outer wall, the base being wider than the distance between the lower ends of the inner and outer walls and provided with an upper edge spaced from the lower end of the inner wall so as to produce an opening, a grate located in the opening and means for securing each assembly in place.

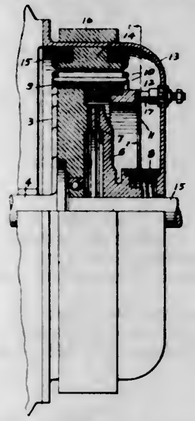
1,946,512
SEALING RING FOR USE IN GAS HOLDERS OF DISK TYPE
Georg von Hanffstengel, Nuremberg, Germany
Application April 2, 1932, Serial No. 602,840, and in Germany April 4, 1931
3 Claims. (Cl. 48—176)

1. In a gasholder of the disk type, the combination with the shell and closure disk thereof, of a closed, integral, metallic sealing ring located between said disk and said shell and connected with the disk so as to be able to yield radially, the



outer diameter of the ring being normally greater than the internal diameter of the shell, so that said ring is under an initial circumferential compression when it is inserted within the shell.

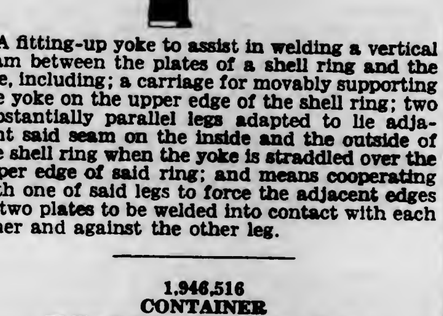
1,946,513
FLY-WHEEL STARTING MOTOR
Robert Alden Webster, Washington, D. C., and Bedford K. Smith, Alexandria, Va.
Application December 16, 1931
Serial No. 581,384
1 Claim. (Cl. 172—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



The combination with a driven shaft, of a wheel member rotatably mounted thereon, said member having a laterally outstanding radially extending annular face to cooperate with a clutch element, a laminated body having transverse slots in the periphery thereof disposed around said wheel and extending laterally beyond the face thereof, an annulus of insulating material disposed against the inner periphery and the adjacent lateral face of the projecting portion of said body, commutator segments mounted in said annulus, armature coils in the slots in said body connected to said commutator segments, a housing inclosing the aforesaid parts, field poles mounted in said housing to coact with said armature coils, a band of material having low magnetic reluctance disposed around said housing over the zone of said poles, and brushes carried by said housing to contact said commutator segments.

1,946,514
TRIMMING ATTACHMENT
John P. Weis, Nyack, N. Y., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y., a corporation of Delaware
Application October 31, 1932. Serial No. 640,490
23 Claims. (Cl. 112—124)

1. In a sewing machine having a top arm and a shaft therein, a trimming attachment supported for swinging movement into and out of operative position and having a rotary cutter,



and a pitman connection between said shaft and cutter for rotating it.

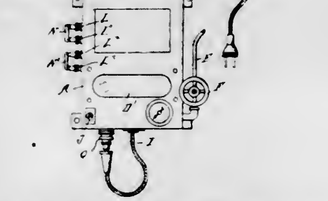
1,946,515
FITTING-UP YOKE
Djalma D. Williams, Dallas, Tex., assignor to Chicago Bridge & Iron Company, Chicago, Ill., corporation of Illinois
Application January 13, 1933. Serial No. 651,652
1 Claim. (Cl. 113—99)

A fitting-up yoke to assist in welding a vertical seam between the plates of a shell ring and the like, including; a carriage for movably supporting the yoke on the upper edge of the shell ring; two substantially parallel legs adapted to lie adjacent said seam on the inside and the outside of the shell ring when the yoke is straddled over the upper edge of said ring; and means cooperating with one of said legs to force the adjacent edges of two plates to be welded into contact with each other and against the other leg.

1,946,516
CONTAINER
Philip Zalkind, New York, N. Y.
Application September 3, 1932. Serial No. 631,682
30 Claims. (Cl. 229—19)

1. In a container; a front wall; side walls; said front wall comprising an inner and outer face; a member interposed between said inner and outer face; and a handle secured to said member and accessible through a perforation in said outer face.

17. In a container; a front wall; side walls lower than said front wall; tongues forming bracket connections from said front wall to said side walls; one arm of said bracket being connected to said front wall above the upper edge of said side wall and the other arm of said bracket extending along the upper edge of said



side wall; said side wall overlapping said other arm of said bracket for securing said bracket thereto.

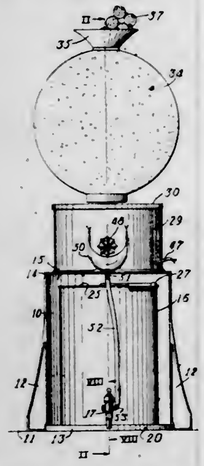
1,946,517
SAND ROCK ASPHALT PAVEMENT
Glenn H. Alvey, San Antonio, Tex., assignor to Uvalde Rock Asphalt Company, San Antonio, Tex., a corporation of Texas
No Drawing. Application February 4, 1932
Serial No. 590,989
4 Claims. (Cl. 106—31)

1. The process for the manufacture of a rock asphalt paving mixture which comprises pulverizing limestone rock asphalt to a fineness where seventy-five per cent will pass a ten mesh screen, adding thereto sand poorly graded as to size to produce a maximum of voids, mixing the ingredients, heating the mixture to a temperature around 300° Fahrenheit, and finally adding an asphaltic flux sufficient to coat the sand particles and soften the native bitumen in the rock asphalt.

1,946,518
IGNITION TESTER
Frank Barteis, Sacramento, Calif., assignor to Defiance Spark Plugs, Incorporated, Toledo, Ohio, a corporation of Ohio
Application December 5, 1932. Serial No. 645,843
6 Claims. (Cl. 175—183)

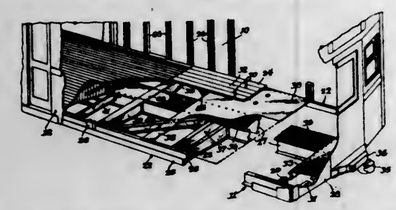
1. An ignition system testing instrument comprising a casing containing an air chamber and a sparking coil having low and high tension circuits therethrough, means for energizing said coil, a socket for a spark plug, a spark plug in said socket having its sparking electrodes located in said air chamber, means for connecting said spark plug into the high tension circuit of said coil, a switch controlling the low tension circuit of said coil, means for admitting compressed air to said chamber to vary the pressure therein, a transparent window in said air chamber through which the sparking of the electrodes may be observed, a graduated gauge for indicating the varying air pressures within said chamber, and means external to said casing for conveniently cutting in an external test circuit into a circuit of said coil.

1,946,519
LIQUID DISPENSING APPARATUS
Kenneth E. Bemis, Chicago, Ill., assignor to Walgreen Co., Chicago, Ill., a corporation of Illinois
Application May 19, 1930. Serial No. 453,618
7 Claims. (Cl. 225—21)



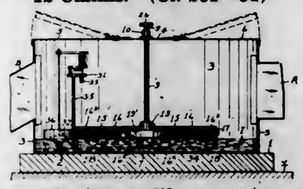
7. In a device of the character described, the combination with a casing constituting a chambered enclosure, a display member rotatively associated with said casing, a liquid confining chamber in said casing, valved dispensing means on said container, a fresh fruit extractor journalled in said casing, motor power means for rotating said display member and extractor, and means for directing the fresh fruit juice from said extractor to said valved dispensing means to control a mixed discharge therefrom.

1,946,520
RAILWAY CAR
Martin P. Blomberg and William H. Mussey, Chicago, Ill., assignors, by mesne assignments, to Pullman Car & Manufacturing Corporation, a corporation of Delaware
Application March 30, 1929. Serial No. 351,241
3 Claims. (Cl. 105—414)



3. In a railway car, the combination of comparatively light center sills and side sills, bolster diaphragm members rigidly secured to said center and side sills, a power unit above said bolster diaphragm members, cross-bearers rigidly secured to said center sill and to said side sills adjacent to a point of contraflexure of said side sills whereby vibrations of said power unit transmitted rearwardly along said center sill during the operation of said unit will be dampened by said cross-bearers.

1,946,521
HUMIDIFIER
Rolland A. Brodhecker, Brownstown, Ind.
Application March 22, 1933. Serial No. 662,139
12 Claims. (Cl. 261—91)



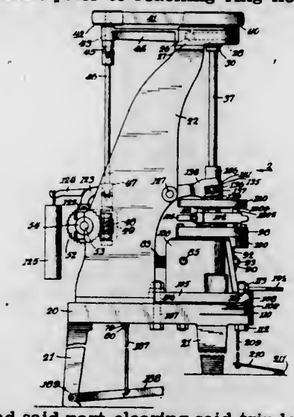
1. In combination with a water container adapted to contain water in its lower portion, and means for automatically maintaining the water at a predetermined level; a shaft mounted to extend upwardly from the interior of the container, means for rotating said shafts, arms radiating from said shaft, conduits carried by said arms with the inner ends of said conduits located below the water level in the container and each having an unobstructed passage-way therethrough, with the inner ends of said conduits directed toward the line of travel as the shaft revolves whereby when operated in one direction water will be forced into said conduits by reason of the gyration of the conduits and the normal inertia of the water, and by reason of centrifugal force the water will be forced outwardly through and expelled from the outer ends of said conduits, means for atomizing said water expelled from said conduits, and means for forcing a current of air through said container whereby it will be impregnated with the moisture developed by the water contacting with said atomizing means.

1,946,522
STEEL ALLOY
George Charlton, Detroit, Mich., assignor to Wilcox-Rich Corporation, a corporation of Michigan
No Drawing. Application May 27, 1929
Serial No. 366,533
1 Claim. (Cl. 75—1)

A steel alloy including about 20.00 per cent chromium, 2.00 per cent zirconium, 1.25 per cent carbon, .80 per cent manganese, .80 per cent silicon, a minimum amount of phosphorus or sulphur, and the balance iron.

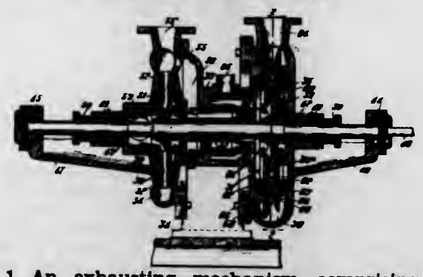
1,946,523
BORING MACHINE FOR PISTON RINGS
William J. Cramer, Hagerstown, Ind., assignor to The Perfect Circle Company, Hagerstown, Ind., a corporation of Indiana
Application December 22, 1930
Serial No. 503,953
8 Claims. (Cl. 77—4)

7. In a piston ring boring machine, the combination of means for gripping a ring, means for boring a side of said ring, a power source, a cam shaft having gear means, a releasable driving connection comprising a pivoted lever having gear means connected to said cam shaft gear means and power source, a trip lever for maintaining said pivoted lever in a position engaging both of said gear means, cams on said shaft for operating said gripping and boring means, respectively, a third cam on said shaft, and mechanism controlled by said third cam and the movement of said gripping means toward ring holding position, said mechanism having a part for moving said trip lever out of contact with said pivoted lever to permit a movement of the latter to gear releasing position upon a stoppage of said gripping means prior to reaching ring holding posi-



tion, and said part clearing said trip lever during the full movement of said gripping means to ring holding position.

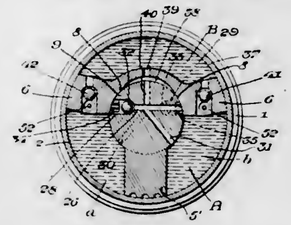
1,946,524
VACUUM PUMP
David N. Crosthwait, Jr., Marshalltown, Iowa, assignor to C. A. Dunham Company, Marshalltown, Iowa, a corporation of Iowa
Application May 15, 1931. Serial No. 537,634
15 Claims. (Cl. 230—108)



1. An exhausting mechanism comprising a closed casing enclosing an exhausting chamber and having an inlet for gases and a restricted annular outlet for mixed fluids, a rotary impeller mounted within exhausting chamber, means for positively rotating the impeller, and means for projecting a stream of liquid through the chamber and against the impeller, the impeller being formed with means to spread the stream and project it radially through the annnular outlet.

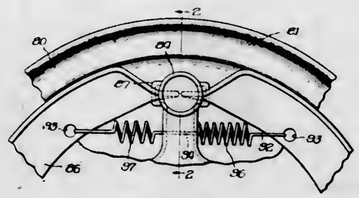
1,946,525
TWO-WAY SHOCK ABSORBER
Theodore H. Eickhoff, Frederick Dexter Sanborn, Jr., and Alfred E. Drissner, Cleveland, Ohio, assignors to The National Acme Company, Cleveland, Ohio, a corporation of Ohio
Application January 23, 1931. Serial No. 510,624
19 Claims. (Cl. 188—89)

1. A hydraulic shock absorber comprising a casing, an abutment therein dividing the casing into a reservoir chamber and a working chamber and having a seat, a shaft journaled in said casing having a part fitting said seat and a wing piston co-operating with said shaft and dividing the working chamber into a pair of compartments, said shaft having fluid passages therein leading from one compartment to the other for the passage of fluid and in position to be completely closed by the seat wall of the abutment when the piston is shifted into a predetermined position, thereby to prevent the passage of fluid



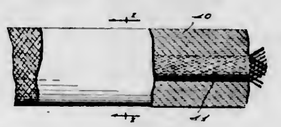
from one compartment into the other, said passages comprising parallel valve controlled passages therethrough, each in communication with a diagonally located passage opening into a compartment.

1,946,526
BRAKE
Edwin R. Evans, Chicago, Ill.
Original application March 18, 1931, Serial No. 523,408, now Patent No. 1,908,013. Divided and this application March 6, 1933. Serial No. 659,652
6 Claims. (Cl. 188—206)



1. In a brake construction, a pair of brake shoes, an anchor pin between adjacent ends of said brake shoes, a pressed metal backing plate having an integral bearing portion forming a support for said anchor pin substantially across the width of said brake shoes, said bearing portion having slots to receive the ends of said brake shoes into engagement with said anchor pin.

1,946,527
PACKING
Fletcher H. Field, Detroit, Mich., assignor to Rhodes Metallic Packing Company, Detroit, Mich., a corporation of Michigan
Application November 3, 1930. Serial No. 493,201
4 Claims. (Cl. 154—45.5)



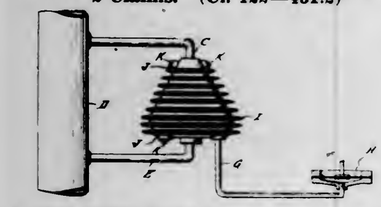
1. A flexible metallic packing comprising a body and a tubular braided core extending longitudinally therethrough and constituting a lubricant reservoir.

1,946,528
PACKING
Fletcher H. Field, Detroit, Mich., assignor to Rhodes Metallic Packing Company, Detroit, Mich., a corporation of Michigan
Application November 3, 1930. Serial No. 493,202
10 Claims. (Cl. 154—45.5)



1. A metallic packing comprising a core, a surrounding layer of a non-abrasive metal alloy having high heat resisting properties, and a protecting cover of braided magnesium alloy wire.

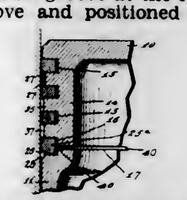
1,946,529
BOILER FEED WATER REGUATOR
Bernt Garilus, Detroit, Mich., assignor to Alexander J. McDonough, Detroit, Mich.
Application May 29, 1933. Serial No. 673,544
2 Claims. (Cl. 122—451.2)



1. In a boiler feed water regulator, a pressure generator comprising a casing of conical form having an inner chamber connected at the upper and lower ends respectively with the steam space and water space of the boiler and a surrounding outer chamber for containing an expansible fluid whereby the heat communicated from the inner to the outer chamber varies in proportion to the fall or rise of the water level in said inner chamber, and will correspondingly vary the pressure of said expansible fluid.

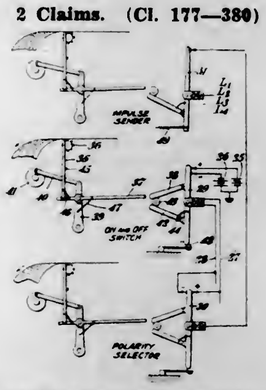
1,946,530
PISTON
Charles C. Hanch, Chicago, Ill.
Application August 15, 1928. Serial No. 299,778
3 Claims. (Cl. 309—7)

2. A piston for internal combustion engines, comprising a head portion and a skirt portion separated at the exterior of the piston by a circumferential slit but connected internally of the piston, said piston having a piston-ring groove in the bottom of which said circumferential slit opens so that a ring in said groove obstructs the opening of said slit to the exterior of the piston, a slit-closing ring located in said slit for substantially closing it, said slit-closing ring slidably engaging the walls of said slit to permit unequal expansions of the head-portion and skirt-portion of the piston, said piston being provided with superficial oil-containing provisions including a circumferential oil groove at the lower corner of said ring groove and positioned to receive oil



scraped from a cylinder wall by a ring in said ring groove.

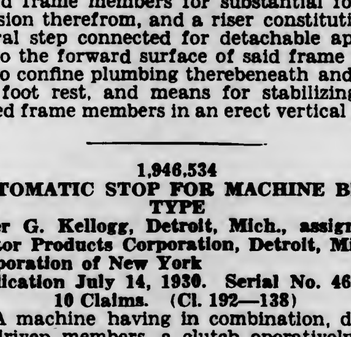
1,946,531
ELECTRICAL SIGNALING
Merton L. Haselton, New York, N. Y., assignor to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Original application January 6, 1928, Serial No. 244,873, now Patent No. 1,890,876. Divided and this application January 6, 1930. Serial No. 418,802
2 Claims. (Cl. 177—380)



1. The combination with sources of positive and negative polarities, of a transmission line, an impulse sending switch normally closing a circuit over said line, a polarity selector switch normally in position to close a circuit of one polarity to said impulse sending switch and adapted to be moved to close a circuit of another polarity to said impulse sending switch, means for holding said polarity selector switch in either of its moved positions, an on and off switch for connecting both sources of polarities to the contacts of said polarity selector switch, means for holding said on and off switch in either its open or closed position, and means for closing said on and off switch and simultaneously operating said polarity selector switch when necessary and then opening and closing said impulse sending switch the desired number of times in rapid succession and thereafter opening said on and off switch and simultaneously restoring said polarity selector switch when necessary.

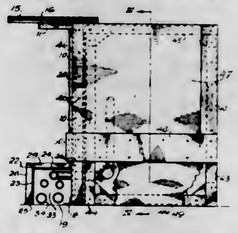
1,946,532
RACK FOR REFRIGERATORS, OVENS, AND THE LIKE
Charles T. Hatch, Albion, Mich, assignor to Union Steel Products Company, Albion, Mich.
Application January 11, 1932. Serial No. 585,817
2 Claims. (Cl. 211—143)

1. The combination with supporting rails provided with bearing members at the front ends thereof, and a shelf comprising a border frame, the side members of which are slidably supported on said bearing members and have inwardly projecting loop-like offsets adjacent their rear ends, the bight portions of the offsets being inclined rearwardly and downwardly so that the front arms of the offsets ride upon the rails and the



rear arms thereof extend below the rails, said side members also having downward offsets extending from the front arms of said lateral offsets and disposed at the outer sides of the rails and constituting stops coacting with stops at the front ends of the rails.

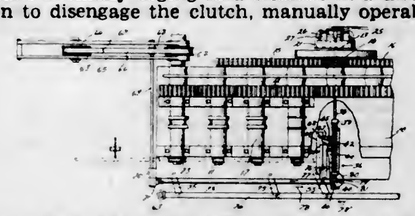
1,946,533
KNOCKDOWN COUNTER FIXTURE
Marriott T. Johnston, Chicago, Ill., assignor to Walgreen Co., Chicago, Ill., a corporation of Illinois
Application May 5, 1932. Serial No. 609,533
5 Claims. (Cl. 45—140)



1. In a knockdown counter, the combination with end skeleton frame members composed of angle iron aligned in a common plane, of means projecting through adjacent angle irons for effecting the end attachment of said frame members in multiple units to extend the plane thereof, a counter support rigidly fixed to the top edge of said frame members for substantial forward extension therefrom, and a riser constituting an integral step connected for detachable application to the forward surface of said frame members to confine plumbing therebeneath and serve as a foot rest, and means for stabilizing said aligned frame members in an erect vertical plane.

1,946,534
AUTOMATIC STOP FOR MACHINE BELT TYPE
Homer G. Kellogg, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application July 14, 1930. Serial No. 467,917
10 Claims. (Cl. 192—138)

1. A machine having in combination, driving and driven members, a clutch operatively connecting said members, actuating mechanism for the clutch including an element connected to the movable part of the clutch, means for automatically actuating said clutch including yieldable means normally urging said element in a direction to disengage the clutch, manually operable



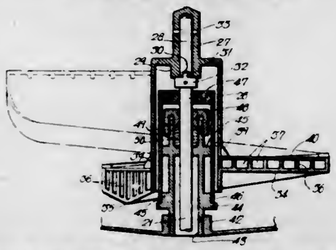
means for said clutch, and means for rendering said yieldable means inoperative permitting actuation of said clutch by said manually operable means.

1,946,535
WASHING MACHINE
Leland G. Knapp, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application January 30, 1930. Serial No. 424,480
4 Claims. (Cl. 259—101)



1. An agitator for a clothes washing machine, provided with a series of vertical vanes, the area of which reaches a maximum at a distance substantially above the bottom of the agitator, the edges of said vanes first being straight and sloping outwardly and downwardly and then being curved, and extending downwardly and outwardly to reach a maximum radial extension, then inwardly and downwardly to reach a minimum radial extension and finally outwardly and downwardly to reach another maximum radial extension.

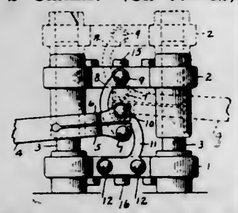
1,946,536
DISHWASHING MACHINE
Arthur G. Kohler, New York, N. Y.
Application October 25, 1928. Serial No. 315,066
6 Claims. (Cl. 299—63)



5. In a dishwashing machine, a rotary water projector having a central, vertically disposed sleeve portion a horizontal blade-like extension thereon having integral spaced ribs disposed at

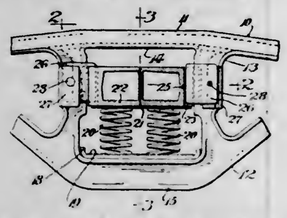
right angles to the upper surface of said extension, said extension being spirally disposed about said portion, and the ribs defining spiral water passageways, and means for closing the tops of the passageways.

1,946,537
QUICK-CLAMPING BOX TYPE JIG
Fred W. Kuppersmith, Bloomington, Ill.
Application August 28, 1933. Serial No. 687,074
2 Claims. (Cl. 77—62)



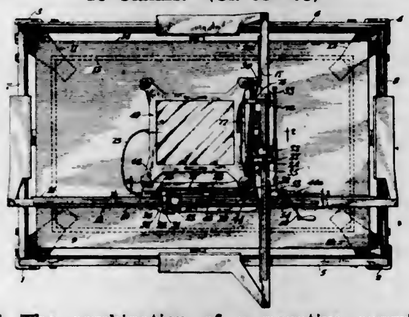
1. A quick-clamping box jig including a base plate, a plurality of guide posts thereon, a bushing plate mounted to reciprocate thereover, and means to reciprocate the bushing plate including an arm carried on the base mounting a pivot, an arm pivoted above said first arm on the bushing plate, both pivots lying in the vertical center plane passing through the base and bushing plates, said second arm extending below the pivot on the first arm and mounting a pivot on its free end, an operating handle having bifurcated resilient extensions with the extremity of the lower extension mounted on the pivot carried by the upper arm and the extremity of the upper extension mounted on the pivot carried by the lower arm, said handle adapted upon rotation in one direction to move the said base and bushing plates apart and upon rotation in the opposite direction to move said plates toward each other, and in the lowermost position to carry the handle pivot of the upper arm beyond the said vertical center plane of the said plates and hold said plates in the lowermost position under the tension of the resilient handle extensions.

1,946,538
CAR TRUCK
Mark H. Martin, Reading, Pa., assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa., a corporation of Pennsylvania
Original application November 4, 1929, Serial No. 404,592. Divided and this application October 2, 1931. Serial No. 566,497
6 Claims. (Cl. 105—207)



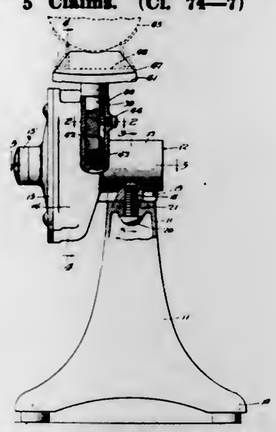
1. In a car truck, the combination of a side frame including a window opening and pockets facing each other adjacent the opposite sides of said opening, said pockets being stepped back from the adjacent edges of said opening to provide shoulders for engaging the lugs of a standard bolster, a bolster engageable with said frame through said opening and including depressions facing outwardly from opposite sides thereof on the outer end in complementary relation to the side frame pockets, and means insertable in said pockets and depressions for limiting endwise movement of the bolster, the end width of said bolster being less than the width of said opening.

1,946,539
VACUUM FRAME
Dante V. Mazzocco, New York, N. Y., assignor to Eureka Photo Mechanical Equipment, Inc., New York, N. Y., a corporation of New York
Application August 14, 1931. Serial No. 557,027
16 Claims. (Cl. 95—76)



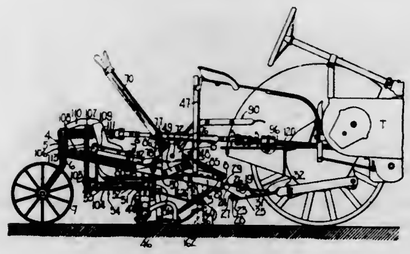
1. The combination of a negative carrying frame, a tapered continuous flange on said frame extending downwardly and surrounding a negative plate on said frame, and a sealing ring provided with a V-shaped groove frictionally holding said ring on said flange when assembled.

1,946,540
POWER UNIT
Emanuel Nielsen, Racine, Wis., assignor to Hamilton Beach Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application February 27, 1933. Serial No. 658,786
5 Claims. (Cl. 74—7)



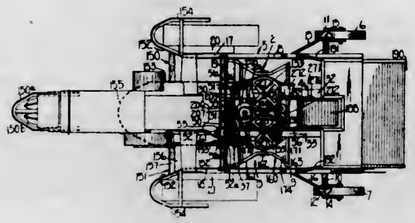
1. A power transmission unit comprising a housing, power transmitting mechanism in the housing including a gear shaft having an end formed for operative connection with the power shaft of a portable motor device, a motor support movably mounted relative to the housing, and means for normally holding the support in extended position, said means being depressible by the weight of the motor device to effect automatic aligned driving connection between the motor device and gear shaft.

1,946,541
MOWER
Wilbur J. Coultas and Nolan D. Colvin, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 3, 1933. Serial No. 669,141
21 Claims. (Cl. 56—25)



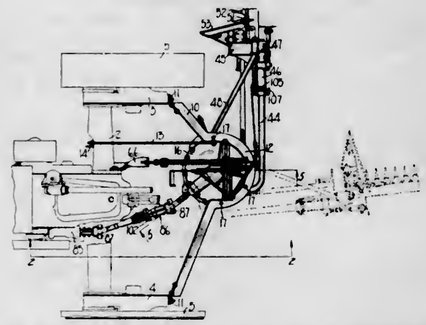
1. The combination with a tractor, of a mower comprising a frame and a cutting mechanism carried thereby and extending laterally therefrom, means connecting said frame with the tractor at laterally spaced points thereon, one of said connecting means including pivots providing for both vertical and lateral swinging movements of the frame relative to the tractor, and means connecting the other side of said frame with the tractor including a latch pivotally and releasably connecting the frame with the tractor and providing for the release of the frame therefrom when the cutting mechanism strikes an obstruction.

1,946,542
COTTON HARVESTER
Leonard B. Neighbour, Moline, and Frederick A. Thomann, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application July 30, 1932. Serial No. 626,396
29 Claims. (Cl. 56—14)



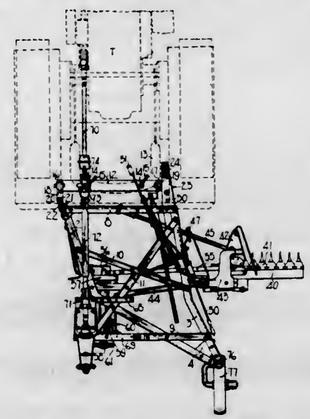
1. A cotton harvester adapted to be propelled by a tractor or the like, comprising, in combination, a supporting frame including longitudinally disposed frame bars connected together in rigid relation with respect to each other and connected at their forward ends with the tractor at opposite sides thereof for vertical movement relative thereto about a transverse axis, said pivotal connection being established at two spaced points on the tractor whereby the frame is laterally rigid with respect thereto, caster wheel means supporting one end of said frame, and cotton harvesting means carried by said frame between said longitudinally disposed frame bars.

1,946,543
MOWER
Talbert W. Paul, Kansas City, Kans., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 26, 1932
Serial No. 634,829
20 Claims. (Cl. 56—25)



1. In a mowing machine, a frame, a turntable mounted upon said frame for movement around a vertical axis, a transversely extending cutter bar connected with the turntable for vertical movement in a transverse vertical plane, and means mounted on said frame for raising said cutter bar.

1,946,544
MOWER
Talbert W. Paul, Kansas City, Kans., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 13, 1933. Serial No. 670,864
8 Claims. (Cl. 56—25)

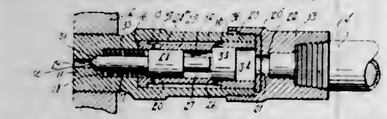


1. The combination with a tractor, of a mower comprising a frame and cutting mechanism carried thereby and extending laterally thereof from one side, said frame including a generally longitudinally extending frame bar extending laterally and rearwardly to a point substantially behind the traction wheel of the tractor at the side from which said cutting mechanism extends, and means disposed at the rear end of said frame bar for supporting the rear of the frame from the ground, whereby said mower will follow the contour of the ground independently of the tractor.

1,946,545
HEAT TREATMENT OF LIGHT ALLOYS
Leopold Pessel, Philadelphia, Pa.
No Drawing. Application February 12, 1930
Serial No. 427,941
2 Claims. (Cl. 148—21.1)

1. The method of increasing the elongation and resistance against intergranular corrosion embrittlement of duralumin and alloys commonly known as alloys of the duralumin type, which are of such a nature that their strength can be increased by a heat treating process including a period of aging, which comprises subjecting these alloys, during the period of aging and for not less than nine hours, to a static pressure which will not result in any essential change of the shape or dimension of the material and which shall be not less than 600 pounds per square inch.

1,946,546
MEASURING VALVE
William S. Pritchard, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application January 11, 1926. Serial No. 80,686
13 Claims. (Cl. 184—7)



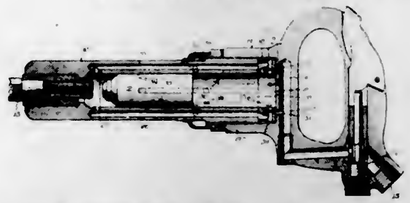
13. In a valve, a chamber communicating with a lubricant supply and with a part to be lubricated, a piston reciprocably mounted within said chamber for expelling a quantity of lubricant from said chamber to the part to be lubricated and for permitting a measured quantity to enter said chamber from said lubricant supply, and a second chamber spaced from and extending circumferentially around the chamber aforesaid and communicating with the latter upon opposite sides of the piston for transferring the measured quantity of lubricant to the discharge end of said chamber.

1,946,547
STEAM AND ELECTRIC HEATING UNIT
Edward A. Russell, Chicago, and Donald W. Miller, Elmhurst, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application December 14, 1931
Serial No. 580,840
3 Claims. (Cl. 219—38)



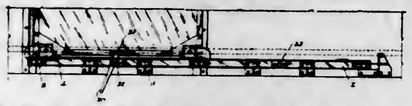
1. A combined steam and electric heating unit comprising a length of steam pipe having end portions to be threaded for engagement with fittings, the pipe between these end portions being provided with a plurality of integral fins projecting from its outer surface at spaced intervals, and an electric heating element consisting of a metal tube with an enclosed electric heater electrically insulated therefrom, the electric heating element having a length substantially equal to the unthreaded portion of the pipe and being cast within the fins so as to be positioned substantially parallel to and adjacent the pipe but spaced therefrom.

1,946,548
PRESSURE FLUID OPERATED TOOL
Ernest H. Shaff, Grand Haven, Mich., assignor to William H. Keller, Inc., Grand Haven, Mich., a corporation of Michigan
Application October 26, 1931. Serial No. 571,009
6 Claims. (Cl. 121—19)



1. In a pressure fluid operated hammer having an elongated barrel providing a piston chamber, a valve casing mounted at the rear end of the barrel and having a narrow valve chamber formed therein opening through an outer surface of the plate and positioned substantially perpendicularly with relation to the surface through which it opens, a relatively thin valve member adapted for edgewise insertion into said valve chamber, passages formed in said plate opening into said valve chamber on opposite sides of the valve member and communicating with opposite ends of the piston chamber, and a head secured on the barrel and abutting the valve member to hold the same in the chamber, said head having a passage therein arranged to supply pressure fluid to the chamber on either side of the valve member.

1,946,549
DOOR FIXTURE FOR RAILWAY CARS
Arthur E. Small, Michigan City, Ind., assignor to Railway Metal Products Company, Chicago, Ill., a corporation of Delaware
Application May 26, 1933. Serial No. 673,013
3 Claims. (Cl. 16—96)

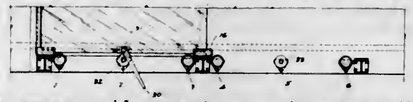


1. In a railway car, a track having a tread arranged to engage rollers supporting a door, members secured to the door out of the path of engagement of the rollers with the tread, said tread provided with elevated portions positioned to be engaged by said rollers upon movement of the door to a predetermined position so as to raise the door, and supports positioned so that upon further movement of the door the members engage said supports so as to support the door independently of the rollers whereby movement of the door is frictionally resisted.

1,946,550
RAILWAY CAR DOOR FIXTURE
Arthur E. Small, Michigan City, Ind., assignor to Railway Metal Products Company, Chicago, Ill., a corporation of Delaware
Application May 26, 1933. Serial No. 673,014
8 Claims. (Cl. 16—99)

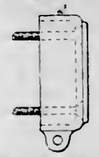
1. In a railway car, a plurality of brackets mounted upon the car, each provided with a roller normally supporting a horizontally movable door, members secured to the door out of the path of engagement of the rollers with the door, secondary rollers mounted in certain of said brackets positioned to be engaged by said members upon

movement of the door to a predetermined position so as to raise said door out of engagement with the rollers, and supports positioned so that upon further movement of the door the mem-



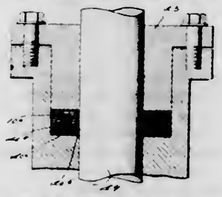
bers engage said supports so as to support the door independently of the aforesaid rollers whereby movement of the door is frictionally resisted.

1,946,551
LOCKING MECHANISM FOR DOORS
Daniel F. Smith, New York, N. Y., and William F. Purcell, Hoboken, N. J.
Application May 9, 1933. Serial No. 670,058
5 Claims. (Cl. 70—14)



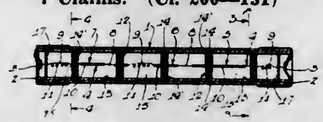
1. In a locking mechanism for a door, the combination with a lock of a safety chain, one end of said chain being permanently attached to the door frame and one end adapted to be attached to the lock, and means for preventing said lock being unlocked from one side of the door until the chain is attached to the lock.

1,946,552
PACKING
Carl H. Sorensen, Detroit, Mich., assignor to Rhodes Metallic Packing Company, Detroit, Mich., a corporation of Michigan
Application November 3, 1930. Serial No. 493,145
7 Claims. (Cl. 154—45.5)



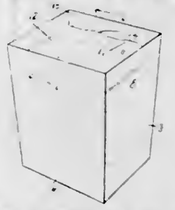
1. A composite flexible metallic packing comprising, two pair of opposed substantially triangular strips movable relative to each other and formed of metallic strips compressed in interlocked position, and an outer protecting cover.

1,946,553
LOW-CAPACITY FUSE CONSTRUCTION
Edward V. Sundt, Chicago, Ill.
Application January 20, 1932. Serial No. 587,778
7 Claims. (Cl. 200—131)



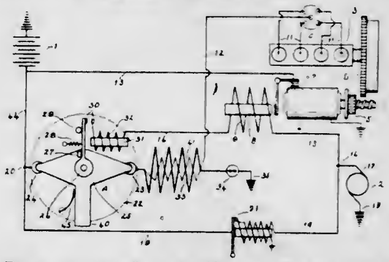
1. A tubular construction of the class described including a tubular casing, metal end caps secured to said casing, a fuse element soldered to said end caps and electrically connected in series with the end caps, said fuse element consisting of a plurality of resistance wires, and a binding substance rigidly secured to said wires, said binding substance being connected in series with said wires and having a flash point below that of the wires.

1,946,554
CONTAINER
Louis W. Sutherland, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application April 29, 1932. Serial No. 608,153
14 Claims. (Cl. 229—45)



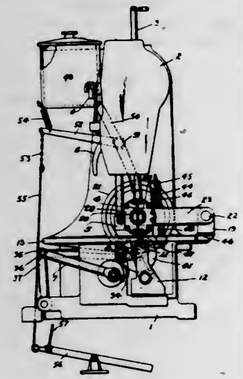
1. A container formed as an integral blank comprising a bottom portion, opposed side wall portions extending from opposite edges hereof and side wall flaps extending from the other edges of the bottom, said side wall portions having side wall extensions on their vertical edges disposed in overlapping relation with the side wall flaps between them, said side wall portions and the inner side wall extensions having internal beads in spaced parallel relation to their upper edges and the inner side wall extensions having slots in the plane of their beads, and a cover having upturned flaps on its edges, opposed flaps having slits therein providing laterally projecting tongues on the cover engageable in said slots when the cover is arranged within the container.

1,946,555
MEANS FOR CONTROLLING STARTING MOTOR AND IGNITION CIRCUITS
Herbert H. Trail, Vancouver, British Columbia, Canada, assignor to Motor Devices, Inc., Chicago, Ill., a corporation of Illinois
Application June 9, 1930. Serial No. 459,913
7 Claims. (Cl. 290—37)



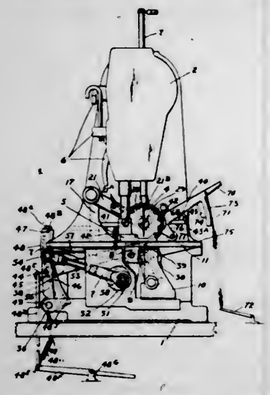
1. In a means for starting engines including in combination, an electro-magnet adapted to control the circuit of a starting motor, means for controlling said electro-magnet including a manually operable switch adapted to be operated to two positions, and means biasing said switch from the second to the first position, said switch when operated to its first position energizing an ignition system and when operated to its second position energizing a circuit including said electro-magnet, and electro-magnetic means adapted to maintain the last mentioned circuit energized after the said switch has been operated from its second to its first position.

1,946,556
TRIMMING MACHINE
John P. Weis, Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y., a corporation of Delaware
Application October 15, 1930. Serial No. 488,739
27 Claims. (Cl. 112—124)



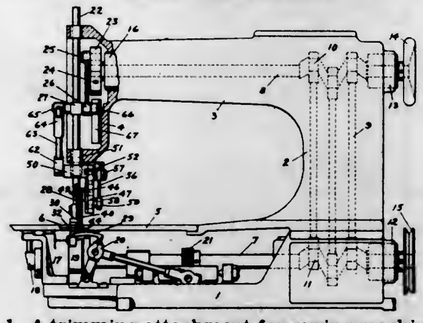
1. In a sewing machine, the combination of stitching mechanism, feeding mechanism comprising a feed dog or bar and means for operating it and means for trimming the stitched edges of the work with a predetermined design, means for operating the stitching mechanism, means connected with the feed dog operating means for operating said trimming means, and means for regulating the pressure of the trimming means on the work.

1,946,557
TRIMMING MACHINE
John P. Weis, Nyack, N. Y., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y., a corporation of Delaware
Application May 20, 1931. Serial No. 538,633
32 Claims. (Cl. 112—124)



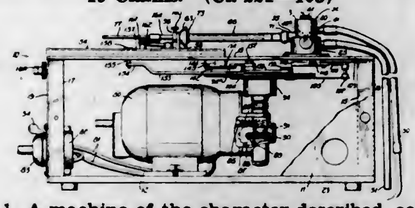
1. In a sewing machine, the combination of stitching mechanism and driving means for operating it, means including a circular cutter for trimming the stitched edges of the work with a predetermined design, and means for imparting different speeds to the trimming means without changing the speed of the stitching mechanism and its driving means.

1,946,558
TRIMMING MECHANISM
John P. Weis, Nyack, N. Y., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y., a corporation of Delaware
Application November 3, 1932. Serial No. 640,937
22 Claims. (Cl. 112—128)



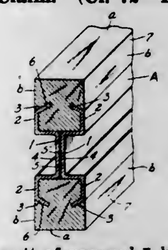
1. A trimming attachment for sewing machines having a needle bar and comprising a reciprocating cutter, a connection between said cutter and needle bar whereby the cutter is operated by the needle bar, said connection including a vertically reciprocating slide for varying the cutting power of the cutter during the operation of the needle bar.

1,946,559
DISPENSING DEVICE
Edwin C. Weiskopf, New York, N. Y.
Application January 25, 1932. Serial No. 588,743
19 Claims. (Cl. 221—103)



1. A machine of the character described, comprising in combination, an electric motor, pump means including a piston, actuated by said motor for dispensing equal quantities of liquid at regular intervals, and means for adjusting said quantities of liquid, said last means including means for changing one end point only of the stroke of said piston.

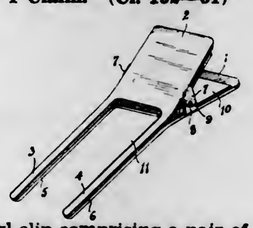
1,946,560
BUILDING UNIT
Albert H. Wick, St. Louis, Mo.
Application July 29, 1932. Serial No. 625,925
1 Claim. (Cl. 72—115)



A structural unit of general I-beam shape comprising a pair of connected metallic members

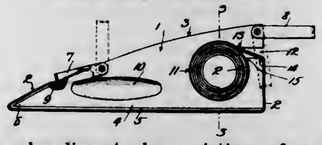
having terminal flanges, a strip of nailable material securely held between said flanges, said strip of nailable material extending beyond the flanges so that the unit is nailable over the entire extent of its outer surfaces.

1,946,561
CURL CLIP
Morris Widerman, Brooklyn, N. Y.
Application March 14, 1933. Serial No. 660,606
1 Claim. (Cl. 132—31)



A hair curl clip comprising a pair of jaw members having divergent portions at one end thereof forming finger-engaging plates, a spring for spreading said portions apart, each of the jaw members having a lengthy bifurcated portion providing a pair of spaced, separate legs unconnected at their extremities, the legs on one plate being held by the spring in abutment with those on the other plate, the clip being adapted to embrace hair curls by gripping them between the jaws under the tension of the spring, or adapted for use as a hair pin by being thrust into the hair with hair strands entering into the bifurcations in the jaws.

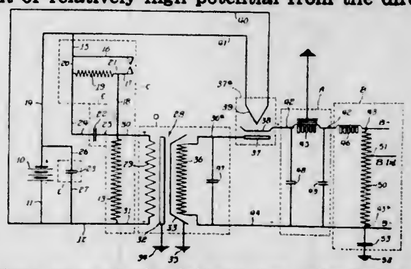
1,946,562
ABRADING BLOCK
Hugo Wurfschmidt, New York, N. Y., assignor to John G. Elbs, Rochester, N. Y.
Application July 30, 1930. Serial No. 471,649
6 Claims. (Cl. 51—187)



6. An abrading tool consisting of a wooden block having a pointed terminal and a cylindrical aperture extending through it near its opposite end, a roll of abrasive tape located within the aperture and held therein by the natural tendency of the roll to unwind, a slot leading from the aperture to one end of the block, the opposite ends of said slot being formed with relatively sharp edges with the tape drawn from the roll and passed through the slot and angularly drawn over said edges whereby the inadvertent shifting of the tape through the slot is prevented by the frictional engagement of the tape with the edges, and clamping means for engaging the tape near its pointed end and holding it against the block.

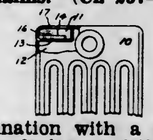
1,946,563
DIRECT CURRENT TRANSFORMING DEVICE
Edward L. Barrett, Chicago, Ill., assignor to Utah Radio Products Co., Chicago, Ill., a corporation of Illinois
Application June 6, 1932. Serial No. 615,553
7 Claims. (Cl. 171—97)

3. In a device for transforming direct current of relatively low potential to direct current of relatively high potential for connection as a unit with the "B" circuit of a radio receiving set for motor vehicle installation, the combination of means connected with the storage battery of the motor vehicle for producing an alternating current of relatively high potential from the direct



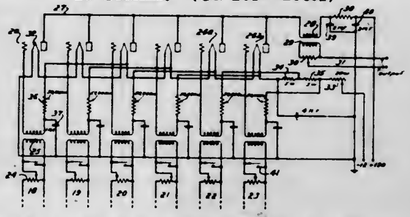
battery current of relatively low potential, and rectifier means for transforming the alternating current of relatively high potential into direct current of relatively high potential including a heating means energized through an independent circuit by the direct battery current of relatively low potential.

1,946,564
HUMIDIFYING RADIATOR
Nicholas Bartlett, Syracuse, N. Y.
Application May 10, 1932. Serial No. 610,353
4 Claims. (Cl. 237—78)



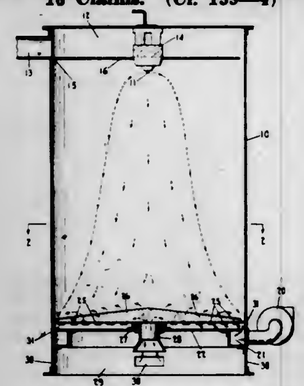
1. The combination with a radiator section of a humidifying device consisting of a well cast integrally with the section but separated from the steam space thereof, of means forming a tortuous water passage through said well, of means for inducing a shallow stream of water to flow through said tortuous passage to be vaporized by the heat in the section, and of means through which the vapors are liberated from the humidifying device.

1,946,565
MIXER AMPLIFIER
Harold Carl Baumann, Elizabeth, N. J., assignor to United Research Corporation, New York, N. Y., a corporation of Delaware
Application April 4, 1931. Serial No. 527,674
10 Claims. (Cl. 179—100.4)



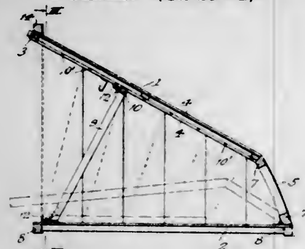
7. A mixer circuit comprising a plurality of in-put circuits each having a vacuum tube amplifier, each amplifier having an in-put circuit and an out-put circuit, each of said amplifiers having a grid, a cathode and a plate, circuits for said plates, and a connection from the grid of each of said tubes to the cathode of another tube comprising means for reducing interference between associated in-put circuits.

1,946,566
METHOD OF CONDITIONING SPRAY DRIED PRODUCTS AND APPARATUS THEREFOR
William Spencer Bowen, Westfield, N. J.
Application March 18, 1931. Serial No. 523,430
16 Claims. (Cl. 159—4)



1. In desiccating apparatus embodying a tower and means to introduce therein solid-containing liquid in finely divided state, means to introduce into said tower a gaseous drying medium, and means connected with the tower for inducing a circulation of the gaseous medium therethrough: rotating means located within the tower in proximity to the bottom thereof for discharging therein in an annular path a conditioning gaseous medium distinct from said drying medium and directed toward said bottom for removal of the product dried in the tower.

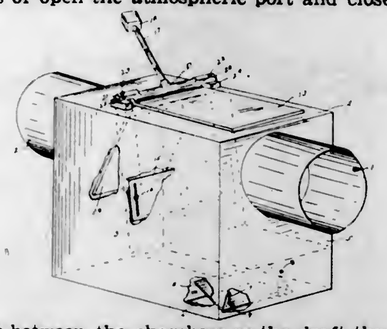
1,946,567
PORTABLE SOLARIUM
Percy L. Braunworth, East Orange, N. J.
Application October 31, 1931. Serial No. 572,299
4 Claims. (Cl. 20—1)



1. The combination with a window frame of, a portable crib provided with a slidable top portion covered with a translucent capable of transmitting ultraviolet light, said top portion being secured to an end portion hinged to a bottom portion, side portions composed of cloth fabric and reenforced by a cord laced between the top and bottom portions, supporting means for holding the top portion in an inclined position, and means for suspending the crib from the window frame in cantilever fashion.

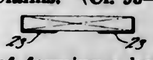
1,946,568
DRAFT CONTROL DEVICE
William L. Butler and Henry F. Hillard, Salt Lake City, Utah; said Hillard assignor to said Butler
Application December 7, 1931. Serial No. 579,484
1 Claim. (Cl. 236—45)

A draft control for furnaces comprising a casing divided into inlet and outlet chambers with a port therebetween and with a port from the inlet chamber into the atmosphere; pivotally supported integral counter-balanced plates carried on said casing adapted to close the atmospheric port and open the port between the chambers or open the atmospheric port and close the



port between the chambers as the draft through the furnace flue fluctuates; and a draft responsive plate controlling a vent in the outlet chamber to draw extra air into the outlet chamber when the draft through the flue is increased above that predetermined amount required for complete combustion in the furnace.

1,946,569
METHOD OF MAKING HERMETICALLY SEALED PACKAGES
Francis Ross Clark, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application March 1, 1932. Serial No. 596,059
3 Claims. (Cl. 93—2)

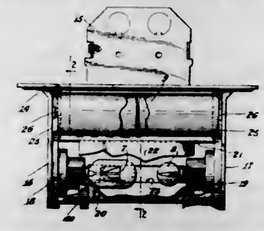


1. A method of forming a hermetically sealed package which comprises coating a rectangular sheet of moisture-proof cellulosic material with solvent in a band extending along three of the edges of the sheet, leaving an uncoated margin between the solvent and the edges of the sheet, folding the sheet around an article so that the uncoated edge lies adjacent the article and is overlapped by the opposite coated edge and so that a band of solvent extends completely around the interior of the tubular wrapper extensions at the ends of the package, tucking in the sides of the tubular extensions part way only towards the package ends so as to leave the wrapper in bellows folded condition and prevent contact of the solvent band with the end of the package, pressing one of each of the pairs of end flaps so formed against the end of the article and into contact with the adjacent side of the other corresponding end flap, turning the compound end flaps thus formed underneath the package, and securing the so folded compound flaps to the body of the package, the solvent acting to soften the coating of the adjoining surfaces to bring them into adherence and spreading through said uncoated margins to produce a seal up to the edges of the sheet.

1,946,570
SAFETY EXIT LIGHT
Ford Elliott Beidler, New York, N. Y., assignor of one-half to Clayton J. Heermance
Application September 30, 1930
Serial No. 485,380
2 Claims. (Cl. 240—37.1)

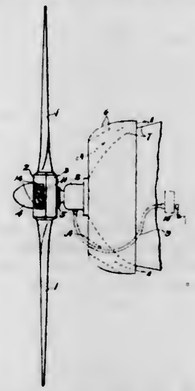
1. A safety exit electrically lighted device including a frame having side arms, aligned pairs

of sockets on said arms, a battery detachably mounted in one pair of sockets, two illuminating filaments removably mounted in the other pair of sockets, one of said filaments being supplied with



current from said battery, the other filament being supplied from a house system, reflecting means positioned between said battery and filaments and a glass casing protecting said filaments.

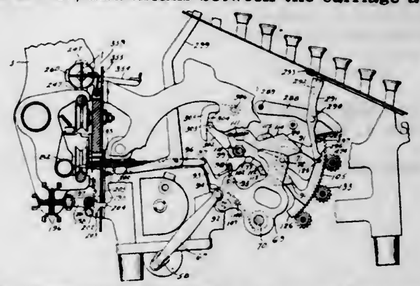
1,946,571
PROPELLER WITH AUXILIARY BLADES APPLICABLE TO DRIVING AIRCRAFT
Emil A. Briner, East Orange, N. J.
Application August 29, 1932. Serial No. 630,778
6 Claims. (Cl. 170—165)



1. An aircraft propeller comprising, a hub member having radial blade holders, main controllable pitch blades swivelly mounted therein, and a like number of auxiliary blades of adjustable pitch attached to said hub; said auxiliary blades having an assembled diameter of not less than one quarter and not more than three quarters of the assembled diameter of the main blades, and operable with the main blades in a single stage orbit.

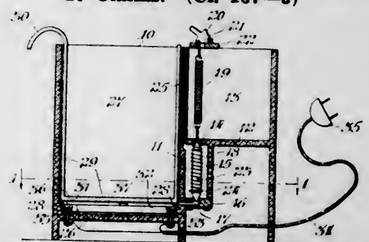
1,946,572
LISTING CALCULATOR
Loring Pickering Crosman, Maplewood, N. J., assignor to Gardner Company, Orange, N. J., a corporation of Delaware
Application April 28, 1932. Serial No. 607,982
11 Claims. (Cl. 235—60)

4. In a listing calculator having a transversely shiftable record carriage, a register, means for determining the character of the registration thereon, and operating means including an electric motor; control means adapted to differentially control the character determining means in different columnar positions of the carriage, power connections between the control means and the motor, and means between the carriage and



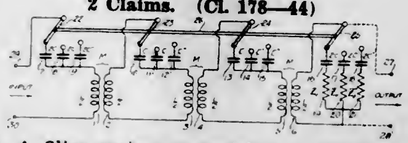
the power connections for placing said connections in active condition.

1,946,573
STERILIZER
Jacob De Vries, Racine, Wis.
Application April 11, 1931. Serial No. 529,414
10 Claims. (Cl. 167—3)



5. In combination, a sterilizer box embodying a main storage chamber, an auxiliary chamber therebeneath, a sterilizer chamber having a floor disposed at a lower level than the auxiliary chamber, a port between the main and auxiliary chambers, a port between the auxiliary and sterilizer chambers, said two ports being substantially in alinement, a double ended needle valve in the auxiliary chamber and movable alternately to open and close said ports, a spring normally urging the valve to close the port between the auxiliary and sterilizer chambers and to hold the other port open, and lever operated connections for oppositely moving the valve against the pull of said spring.

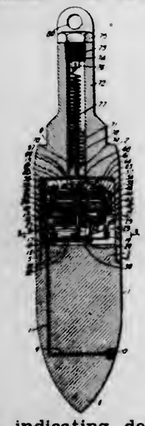
1,946,574
FILTER SYSTEM
Robert D. Duncan, Jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application November 15, 1930
Serial No. 495,823
2 Claims. (Cl. 178—44)



1. A filter system comprising, a circuit composed of a constant value of inductance, a plurality of capacitances of different values and a plurality of terminating impedances of different values, each of said capacitances when associated with said inductance and a selected terminating impedance rendering said circuit responsive to a definite frequency band and means for

selectively utilizing said capacitances and terminating impedances in combination with said inductance to shift the position of said frequency band along the frequency spectrum.

1,946,575
PRESSURE RECORDING GAUGE
Irwin L. Dunn, Harry F. Wright, and Harold S. Crooks, Tulsa, Okla.
Application February 18, 1932. Serial No. 593,738
4 Claims. (Cl. 234—17)



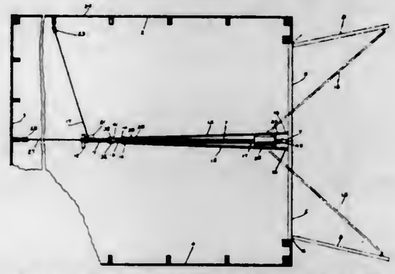
1. A pressure indicating device including a housing, means in the housing for supporting a record blank, a marker, means including a resilient hand normally supporting the marker in spaced relation with the blank, means in the housing for rotating the marker-supporting means in response to pressure to be recorded, a circular striker, means yieldingly supporting the striker in spaced relation with said hand, and means responsive to interrupted travel of the housing for driving the striker against said hand to effect contact of the marker with the blank.

1,946,576
PRESSURE RECORDING GAUGE
Irwin L. Dunn, Harry F. Wright, and Harold S. Crooks, Tulsa, Okla.
Application March 12, 1932. Serial No. 598,392
3 Claims. (Cl. 234—17)



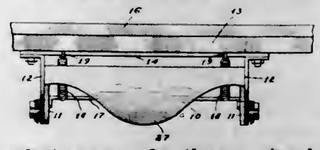
1. A pressure recording device including a housing, a rotatable carrier in the housing for supporting a record blank, means in the housing for rotating the carrier in response to pressure to be recorded, a marker, means normally yieldingly supporting the marker in spaced relation with the blank, an arm pivotally mounted adjacent said marker-supporting means, and a yieldingly supported weight member slidable in the housing and responsive to interrupted travel of the housing for striking said arm adjacent the marker-supporting means to effect contact of the marker with the blank.

1,946,577
DOOR OPERATING MECHANISM
Alphonse Fazendin, Minneapolis, Minn.
Application August 27, 1931. Serial No. 559,659
5 Claims. (Cl. 268—67)



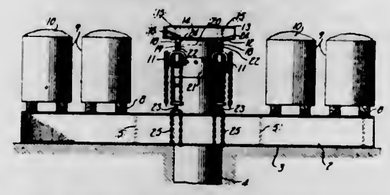
1. The combination with a pair of doors adapted for swinging movement, of a mechanism for closing said doors after a timed interval, said mechanism comprising an overhead rail of channel cross-section, said rail being disposed with its side flanges projecting upwardly, a member mounted for sliding movement on and between said flanges and carrying a plunger, means operatively connecting the member to the doors, means constantly urging the member in a direction to close the doors, a cylinder secured to the rail in axial alinement with said plunger and adapted to receive the latter only when the doors are in wide open position, whereby the initial closing movement of said doors will be retarded, and a cable having one end secured to said member and having running connections with suitable sheaves provided on said rail whereby the member may be manually operated to open the doors.

1,946,578
SCRAPER FOR AUTOMOBILE RUNNING BOARDS
August Glauber and Emil F. Glauber, Lafayette, Calif.
Application April 20, 1931. Serial No. 531,472
4 Claims. (Cl. 15—237)



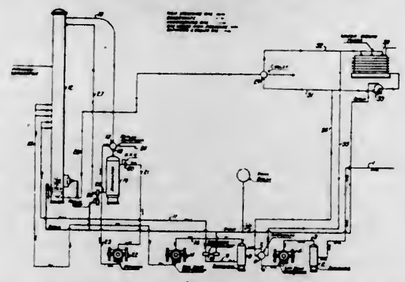
1. In a foot scraper for the running board of an automobile, the combination of a pair of spaced supports each having two parallel and diagonally extending slots therein which extend transversely beneath the running board, one of said slots having a retaining recess in its side adjacent its lower end, a scraper blade disposed parallel with the running board having inwardly extending arms at each end thereof, means carried by said arms for engaging said parallel slots and said retaining recess, and a single spring means connected between the inner ends of said arms and the forward ends of said supports and adapted to urge said scraper blade outwardly into an exposed position adjacent the running board when the means carried by said arms is out of engagement with said retaining recess, said spring being adapted to also cooperate with said retaining recess to hold the scraper blade in a concealed position beneath the running board when the means upon said arms engages said retaining recess.

1,946,579
PROCESS OF SINKING CAISSONS
Thomas L. Green, Oklahoma City, Okla.
Application May 7, 1932. Serial No. 609,885
2 Claims. (Cl. 61—73)



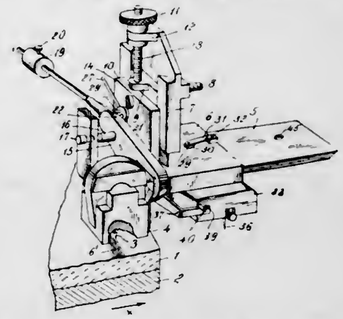
2. The process of sinking a caisson including applying a downward pulling force on the caisson from a platform supported on the surface of the earth, removing excavated earth through the caisson and progressively weighting the platform with earth removed through the caisson in substantial proportion to increase in force applied between the platform and caisson during the sinking operation.

1,946,580
PROCESS OF REFRIGERATING AND SEPARATING GASEOUS PRODUCTS
Lon S. Gregory, Tulsa, Okla.
Application September 4, 1931. Serial No. 561,296
2 Claims. (Cl. 62—123)



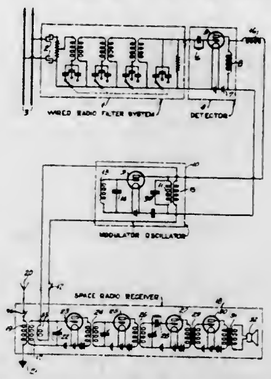
1. The process of refrigerating and separating gaseous products including initially compressing the gas, separating liquid and gaseous products of said initial compression, compressing the gaseous product of said separation, uniting the liquid products of initial separation and secondary compression, rectifying said united products, condensing and separating light ends of said united products, returning condensate of said light ends as reflux to the united liquid products, expanding light ends of the last named separation, cooling the light ends of the united products with the product of said expansion, and drawing off condensate of the united products.

1,946,581
PHONOGRAPH RECORD CUTTER AND PLAY-BACK COMBINATION
Robert Head, Yonkers, N. Y., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y., a corporation of Delaware
Application August 6, 1929. Serial No. 383,801
2 Claims. (Cl. 274—28)



1. In a phonograph recording and reproducing machine, the combination of a turntable for supporting a disc record, a recorder, a reproducer, a support therefor radially adjustable relative to said turntable, means independently and adjustably mounting said recorder and said reproducer on said support, means for radially adjusting said support to a first locking position for placing said recorder in operative relation to said turntable and for adjusting said support to a second locking position for placing said reproducer in operative relation to said turntable, means independently operable to cause said recorder or said reproducer to operatively engage a record, and driving means operable to rotate and simultaneously advance said turntable in a radial direction relative to said support for purposes of both recording and reproducing.

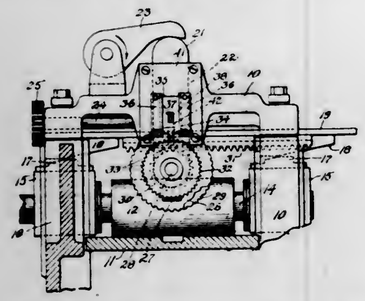
1,946,582
RADIO RECEIVING SYSTEM
Alfred H. Hotopp, Jr., Caldwell, N. J., assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application February 10, 1932. Serial No. 591,996
2 Claims. (Cl. 179—2.5)



1. A radio receiving system comprising, a space radio energy collecting system, a radio frequency amplifier, a wired radio filter system connected to

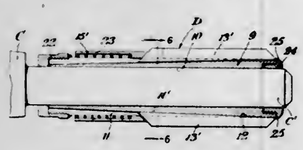
wire lines conveying modulated carrier frequency energy, a demodulating device connected to the output of said filter system for demodulating said carrier frequency energy, a radio frequency oscillator, connections from said demodulating device to said oscillator for causing the output energy of said demodulating device to modulate the radio frequency oscillations produced by said oscillator, said connections including a radio frequency choke coil to prevent energy feed-back from said oscillator to said demodulating device, and connections from the output of said oscillator to the input of said radio frequency amplifier.

1,946,583
MARKING MECHANISM FOR GRADING MACHINES
James W. Johnston, Manchester, N. H., assignor to North American Holding Corporation, Syracuse, N. Y., a corporation of New York
Application May 14, 1932. Serial No. 611,360
7 Claims. (Cl. 101—19)



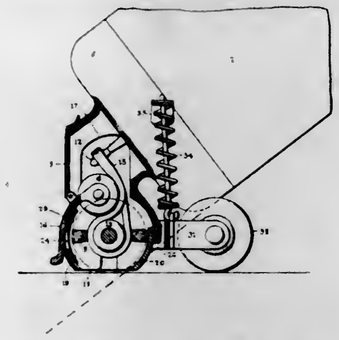
1. Marking mechanism comprising a frame, a normally stationary carrier mounted for reciprocation on the frame, a marking wheel rotatably mounted on the carrier and provided with a pinion by which the marking wheel is rotated, a rack mounted to slide on the frame, whose teeth are in mesh with the pinion when the carrier is in normal position and are disengaged from the pinion during the marking stroke of the carrier and marking wheel, and means for automatically locking the marking wheel to the carrier before the teeth of the pinion are fully withdrawn from the teeth of the rack.

1,946,584
PILOT FOR REAMERS
Franklin Judge, Greenfield, Mass., assignor to Greenfield Tap and Die Corporation, a corporation of Massachusetts
Application July 24, 1930. Serial No. 470,310
1 Claim. (Cl. 77—72)



An expansible pilot for reamers and the like adapted to engage a guide hole and comprising a body portion having a central axis and a plurality of symmetrically disposed slots inclined to the axis of the guide, wedge members guided by said slots and expanding or contracting when moved longitudinally of said pilot and having outer surfaces of predetermined form with respect to the inner surfaces of said guide holes so as to engage said surfaces and retain said pilot against rotation, abutment means at one end engaging the ends of said wedges and spring means at the other end pressing said wedges toward said abutment under yielding pressure of such strength that end pressure on the wedges will move them downward in said slots to permit contraction of the pilot to fit a guide hole, said spring means resiliently pressing said wedges outward to retain the pilot in place in said hole so that said pilot is automatically self-adjusting to fit and hold itself in said hole.

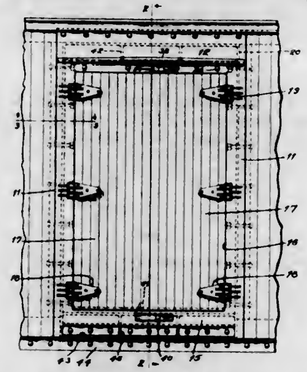
1,946,585
FLOOR ALIGNING SWEEPER
Ward Leathers, Haworth, N. J., assignor to The Quadrex Corporation, a corporation of Connecticut
Application December 12, 1930
Serial No. 501,874
1 Claim. (Cl. 15—8)



A suction cleaner comprising in combination a body portion; a power-driven cylindrical brush; a hollow cylindrical casing for said brush having its longitudinal axis transverse to the longitudinal axis of said body portion and consisting of an upper part on said body portion and a lower part in which is located the suction mouth or slot of the cleaner; said upper and lower parts being partially rotatable on each other about the longitudinal axis of said casing with substantially dust-tight connection therebetween; wheels on said lower part of the brush casing making it self-supporting from the floor; and spring means between said body portion of the cleaner and said lower part of the brush casing tending to yieldingly uphold the former from the latter.

1,946,586
SIDE DOOR FRAME
Mark H. Martin, Birdsboro, Pa., assignor to Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa., a corporation of Pennsylvania
Application November 19, 1928
Serial No. 320,394
6 Claims. (Cl. 20—21)

1. A side door frame for a railway car provided with an inner sheathing, comprising a marginal portion defining a door opening and a flange projecting inwardly from the upper cross member of said portion to define a pocket for receiving a lintel strip for the door, said flange terminating



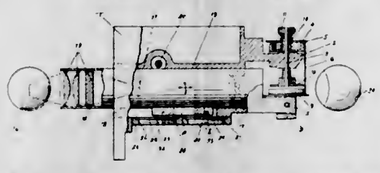
short of the sheathing and defining therewith a dead air space.

1,946,587
RECORDING AND REPRODUCING LAMP FOR PHOTOGRAPHIC SOUND RECORDS
Freeman H. Owens, New York, N. Y.
Application September 16, 1929
Serial No. 393,031
1 Claim. (Cl. 176—16)



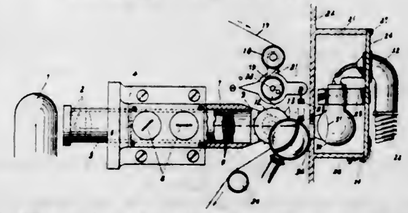
A lamp for photographic sound recording and reproducing comprising a tube, a filament therein, and means wholly in said tube forming a narrow effective recording and producing slit therein through which light from said filament passes, said slit and filament being in alignment with each other, and said filament being of greater diameter than the width of said slit.

1,946,588
OPTICAL SYSTEM AND FOCUSING MEANS THEREFOR
Freeman H. Owens, New York, N. Y.
Application October 5, 1929. Serial No. 397,504
3 Claims. (Cl. 179—100.31)



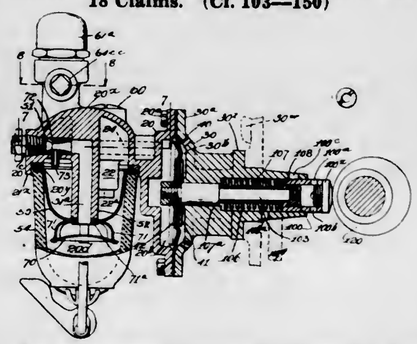
1. In combination with a sound recording or reproducing apparatus including a source of light, a supporting member, a tube in said member carrying a slit member and optical means in alignment with said light, and means for rotatively and longitudinally adjusting said tube in said member, said adjusting means comprising manually operable pins engageable in grooves provided in said tube, said pins being mounted eccentrically in rotatable members accessible for turning.

1,946,589
METHOD AND APPARATUS FOR RECORDING AND REPRODUCING PHOTOGRAPHIC SOUND RECORDS
Freeman H. Owens, New York, N. Y.
Application November 22, 1930
Serial No. 497,441
6 Claims. (Cl. 179—100.3)



1. Means for recording and reproducing photographic sound records comprising a rotatable member, in engagement with which a film is adapted to be moved, a light on one side of said member, the rays of which are focused direct and sharply at a point in the peripheral plane of the opposite side of said member, and means for maintaining the emulsion side of said film in engagement with the side of said member opposite said light and in the peripheral plane thereof and in the focus of said light.

1,946,590
FUEL FEEDING DEVICE
Edward A. Rockwell, Long Island City, N. Y.
Application April 19, 1929. Serial No. 356,330
18 Claims. (Cl. 103—150)



1. A liquid feeding means comprising a liquid supply passageway having a Venturi tube therein, an inlet chamber into which the same discharges, having a vapor-trapping space at the top thereof and a single passageway leading from said vapor-trapping space to said Venturi tube in the liquid supply passageway, and an outlet for the intermingled liquid and vapor located below said vapor-trapping space.

1,946,591
LINER PLATE FOR SHOES
Tomosaburo Saito, Seattle, Wash.
Application April 29, 1933. Serial No. 668,479
2 Claims. (Cl. 36—55)

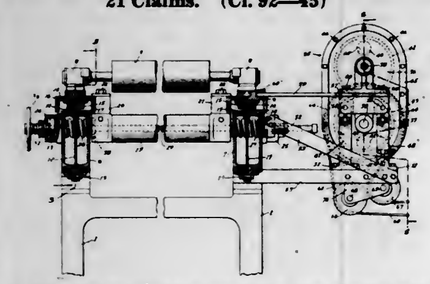
1. A liner plate for shoes, comprising a thin resilient plate for the rear end of Oxford shoes, with a tongue bent and projected forward from the lower end of the plate for insertion beneath the insole of the shoe for retaining the plate down in position, a spring on the under portion

of the tongue for resiliently holding the plate against the heel of the wearer, and an overturned flange around the top of the plate for



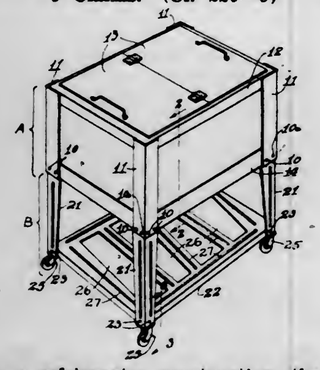
preventing the plate from working down into the shoe and for maintaining the top of the shoe in desirable shape and to prevent wear and disfigurement thereof.

1,946,592
SHAKING MECHANISM FOR FOURDRINIER MACHINES
Frank M. Sanger, Watertown, N. Y., assignor to The Bagley and Sewall Company, Watertown, N. Y., a corporation of New York
Application August 4, 1932. Serial No. 627,405
21 Claims. (Cl. 92—45)



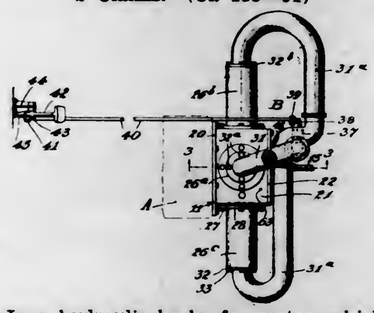
1. In a paper making machine, the combination with a frame section mounted to have a shaking or vibratory movement, a rotary member provided with a weighted part arranged off center, means for rotating the member, and connections between the member and the frame section for effecting a vibratory or shaking movement of the latter.

1,946,593
REFRIGERATOR
John M. Schilling and Willard G. Schilling, Lima, Ohio
Application May 6, 1931. Serial No. 535,402
9 Claims. (Cl. 220—9)



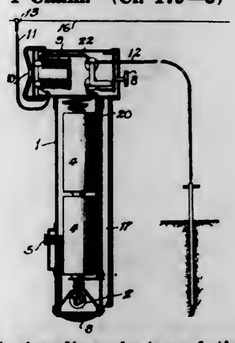
9. In a refrigerator construction, the combination of a rectangular box portion having a lower supporting frame of metal provided with first flanges extending inwardly and second flanges extending downwardly, metal legs having their upper ends inside of said second flanges and butting against the lower surfaces of said first flanges, and removable fastening devices securing said legs to said frame, whereby the parts may be assembled and disassembled.

1,946,594
HYDRAULIC BRAKE
Earl C. Skillman, North Branch, N. J.
Application January 9, 1931. Serial No. 507,588
2 Claims. (Cl. 188—91)



1. In a hydraulic brake for motor vehicles, a transmission casing, a housing secured to said casing, a driven shaft having an actuable crank portion rotatable in said housing, a plurality of cylinders projecting from the walls of the housing and having their axes spaced apart ninety degrees, a piston in each cylinder, operative connections between each piston and said crank portion, each cylinder having a length substantially equal to the stroke of its piston and having in its outer end wall a coaxial opening so disposed as to be beyond the maximum outward movement of the piston, conduits containing a hydraulic medium and connecting the openings of the oppositely disposed cylinders to permit axial flow of the medium through the cylinders and into and out of the cylinders, and valve means for regulating the flow of the medium through said conduits.

1,946,595
FIELD SIGNALING DEVICE
Joseph Straughan, Shelton, Wash.
Application March 23, 1932. Serial No. 600,605
1 Claim. (Cl. 179—3)



In a field signaling device of the class described, the combination of a dry cell electric battery housed within a tubular inclosure, an electric flashlight housed in one end of said tubular inclosure and operatively connected with said battery, a telephone instrument mounted on the opposite end of said tubular inclosure, a telegraph instrument mounted adjacent to said telephone instrument, each of said two instruments

being operatively connected with said electric battery and being housed in and made a part of said tubular inclosure and attachable means whereby said two instruments may be temporarily connected with a transmission wire for transmitting voice and code messages.

1,946,596
PHONOGRAPH RECORD
James Ernest Symonds, New York, N. Y., assignor to United Research Corporation, Long Island City, N. Y., a corporation of Delaware
Application March 25, 1932. Serial No. 601,068
4 Claims. (Cl. 274—42)

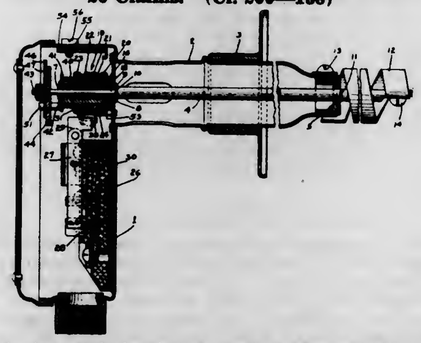


1. A disk record comprising a relatively inflexible backing of plastic composition, a layer of glaze material having a sound groove impressed therein, and a separator between said layer and said backing, said backing extending beyond the periphery of said separator and being directly united with said layer along its periphery, said separator and said layer being imbedded in said backing, the surface of said layer and that of the adjacent peripheral portion of said backing being substantially in one plane.

1,946,597
PHONOGRAPH RECORD AND PROCESS OF MANUFACTURE
James E. Symonds, Muskegon, Mich., assignor to United Research Corporation, a corporation of Delaware
No Drawing. Application October 17, 1931
Serial No. 569,551
1 Claim. (Cl. 106—1.5)

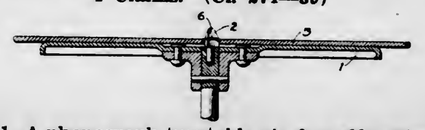
A thermo-plastic composition for moulding phonograph records comprising about 77% of the polymerized vinyl ester of acetic acid, about 20% of amorphous silica, about .25% of dibutyl phthalate and about 2.75% of coloring matter.

1,946,598
THERMOSTATIC SWITCH
Daniel G. Taylor, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 22, 1931. Serial No. 539,224
26 Claims. (Cl. 200—138)



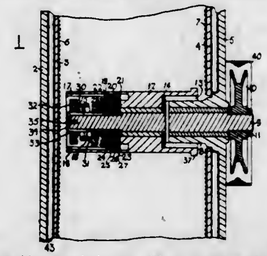
1. A switch having a control element, means for moving the control element to opposite switch control positions in response to varying physical conditions, and means for automatically differentially varying the control action to obtain a quicker control action in one direction than in another.

1,946,599
DEVICE FOR CENTERING A TABLET ON A TURNTABLE
Carl M. Tichenor, North Muskegon, Mich., assignor to Unitcd Research Corporation, a corporation of Delaware
Application April 3, 1931. Serial No. 527,448
4 Claims. (Cl. 274—39)



1. A phonograph turntable pin for self-centering a record on the turntable, said pin comprising a plurality of substantially vertical portions circularly discontinuous, and self-centering tapered portions arising from said vertical portions and adapted to engage a similarly shaped hole in the center of the phonograph record, whereby a phonograph record is guided into center position on the turntable by said tapered portions, the record when resting on said turntable engaging said vertical portions.

1,946,600
MAGAZINE FOR MOTION PICTURE FILM
Albert W. Tondreau, Hollywood, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware
Application June 27, 1932. Serial No. 619,432
4 Claims. (Cl. 242—71)

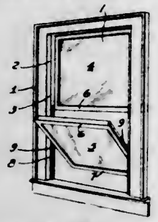


1. A motion picture film magazine having a side wall, a bearing housing mounted adjacent said side wall, a driving shaft rotatably supported by said housing, a driven shaft rotated by said driving shaft, a plurality of friction plates, means for fixing a number of said plates relative to said driving shaft, means for fixing a number of said plates relative to said driven shaft and means for varying the frictional presure between said plates.

1,946,601
WINDOW SASH
Stephen Viragh, Wilkinsburg, Pa.
Application June 17, 1932. Serial No. 617,756
7 Claims. (Cl. 20—49)

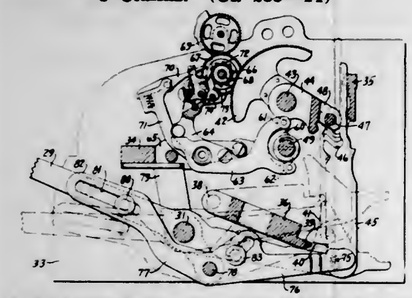
1. A window sash comprising a pair of slide runners uniformly rabbeted on their opposed faces throughout their entire length, a sash frame disposed between said runners, said frame being uniformly rabbeted the same as said runners along its sides adjacent the runners with its rabbets directly opposed to those in the runners, a pair of pivot hinges each comprising a pair of hinge plates and a pivot bolt holding said plates

together connected between said frame and runners in the middle thereof on the opposite sides of said frame, said hinge plate having the same thickness and width as the rabbets cut in the sash frame and runners and mounted therein, and stop strips adapted to cooperate with the



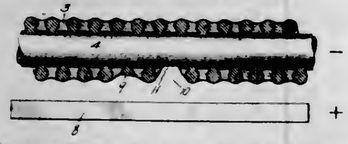
shoulders formed on the adjacent faces of said sash frame and runners by said rabbets mounted in the rabbets on opposite sides of said hinges one being attached to the sash frame and the other to the runner members on each side of the sash.

1,946,602
CASH REGISTER
Edward J. Von Pein, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application April 4, 1921, Serial No. 458,509. Divided and this application January 29, 1930. Serial No. 424,356
5 Claims. (Cl. 235—14)



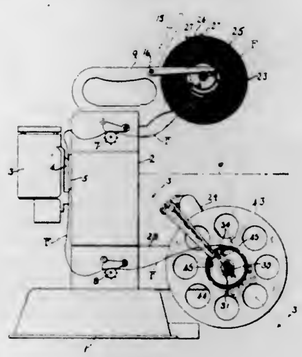
1. In a machine of the class described; a totalizer actuator; differential thrust bars; and means for operating individual thrust bars comprising non-coincidently fulcrumed levers; one of which is directly connected to the other lever and its respective thrust bar.

1,946,603
CATHODE FOR ELECTRICAL DISCHARGE DEVICES
Carl J. R. H. von Wedel, Berlin, Germany, assignor to Electrons, Inc., a corporation of Delaware
Application May 9, 1929. Serial No. 361,652
19 Claims. (Cl. 250—27.5)



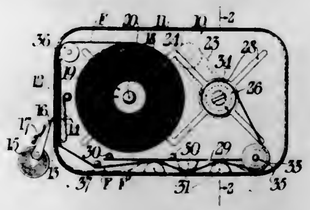
16. In a cathode structure, the combination of a core at least the outer surface of which is nickel, a metal wire helically wound on said core with each turn of the wire forming with the nickel surface a permanent metallic contact having a lower electrical resistance than a turn of the wound wire, and a substance of electron emitting capacity applied to the said wire.

1,946,604
FILM WINDING DEVICE FOR MOTION PICTURE APPARATUS
Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application May 9, 1929. Serial No. 361,692
5 Claims. (Cl. 242—55)



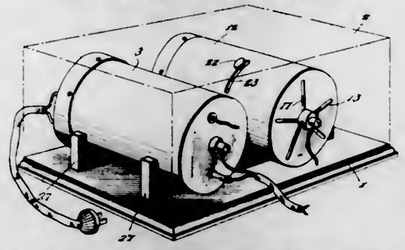
1. In a motion picture projection apparatus, the combination with a film supporting structure, of a roller adapted to support a roll of film, a support for the roller carried by the apparatus on which said roller may turn freely, and a film reel support arranged axially of the roller and an arm, a pivotal support for the arm on which said arm may move to and from a position between said roller and film reel support.

1,946,605
MOTION PICTURE FILM MAGAZINE
Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application June 21, 1932. Serial No. 618,455
10 Claims. (Cl. 88—17)



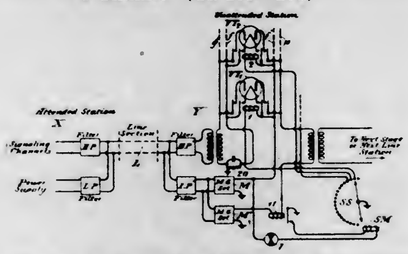
1. In a motion picture apparatus, the combination with a film magazine, a duct within said magazine adapted to guide a film, and snubbing means within said duct adapted frictionally to engage said film, of a film advancing mechanism adapted intermittently to push said film into said duct and a film take-up frictionally driven and adapted to pull from said duct a length of film corresponding to that fed into said duct by said advancing means.

1,946,606
STATIC AND INTERFERENCE ELIMINATOR
Ervin Adams, Mount Carmel, Pa., assignor of part interest to Remo Largioli, Roscoe D. Strawn, Wilson H. Ehret, Bela Bodner, Henry W. Brecker, and Martin J. Haney, all of Mount Carmel, Pa.
Application July 10, 1930. Serial No. 467,039
4 Claims. (Cl. 250—20)



1. An eliminator of the character specified comprising a core, static collecting comb members therearound, and means for adjusting said members radially toward and away from the core comprising rotary elements, and a stud and spiral slot connection between said members and rotary elements.

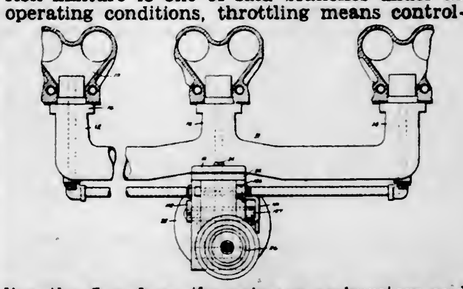
1,946,607
AMPLIFIER CONTROL
Herman A. Affel, Ridgewood, and Estill I. Green, East Orange, N. J., assignors to American Telephone and Telegraph Company, a corporation of New York
Application June 10, 1931. Serial No. 543,424
6 Claims. (Cl. 179—170)



1. In a transmission system, a transmission line, a vacuum tube repeater at a repeater station associated with said line, means to transmit signaling currents over said line to be amplified by said repeater, means to transmit power current from a distant station over said line to energize said repeater, a step-by-step selective switch for selecting any one of several spare repeater tubes to replace a repeater tube which has failed, and means to energize said spare tubes from the same power current when so selected.

1,946,608
CHARGE FORMING DEVICE
Fred E. Aseltine, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware
Application May 23, 1930. Serial No. 454,912
18 Claims. (Cl. 123—52)

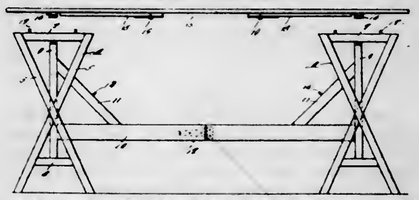
1. A charge forming device for internal combustion engines having a plurality of intake ports, comprising a main air manifold having outlet branches communicating with said intake ports, a plurality of primary carburetors each of which is adapted to supply a super-rich mixture to one of said branches under all operating conditions, throttling means controlling the flow from the primary carburetors and a single secondary throttle for controlling the flow through a plurality of the outlet branches of said manifold.



1,946,609
ALLOY
Alvin P. Bixler, Duncannon, Pa., assignor to Advance Engineering Corporation, Duncannon, Pa., a corporation of Pennsylvania
No Drawing. Application June 12, 1933
Serial No. 675,515
2 Claims. (Cl. 75—1)

1. A lead-tin-cadmium-zinc alloy containing from 40% to 75% lead, 15% to 30% tin, 5% to 20% cadmium, and not materially less than 1% nor more than 6% zinc.

1,946,610
FOLDING STAND
John Bucholz, Perth Amboy, N. J.
Application December 9, 1932. Serial No. 646,530
3 Claims. (Cl. 45—11)



1. A stand of the class described comprising a connecting beam, a pair of standards having intermediate portions fixed to the ends of the beam, a pair of end members comprising horizontal cross bars connected by cross legs, said cross bars being rotatably mounted on the ends of the standards, braces extending between the standards and the beam, said beam being formed in hingedly connected sections.

1,946,611
PAPER DISH
Herman Carew, Easton, Pa., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a corporation of Pennsylvania
Application January 6, 1930. Serial No. 418,810
4 Claims. (Cl. 229—5.5)



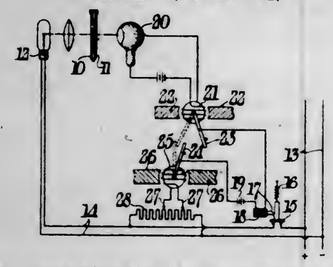
2. A service dish or container of the character described which is readily destructible and adapted for a single use including a body or wall of

relatively thin flexible material such as paper and a bottom of relatively thin flexible material such as paper secured therein, said bottom being formed with a flat central portion having a downwardly directed flange, and an upwardly directed flange extending from the downwardly directed flange, the upwardly directed flange extending parallel with a face of the body or wall and adhesively connected thereto, the downwardly directed flange providing a free flexible intermediate portion permitting the bottom to be flexed relative to the body without breaking the connection between the body or wall and the bottom.

1,946,612
PHOTOGRAPHIC PRINTING APPARATUS

Rolla N. Carter, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

Application July 30, 1932. Serial No. 626,747
5 Claims. (Cl. 88—24)

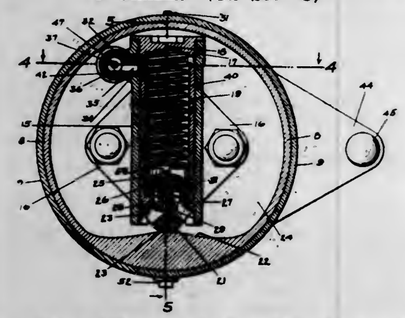


1. An apparatus for the automatic control of exposure in photographic printing, exposure terminating means, a light sensitive element, means energized by said element for actuating said exposure terminating means including an electromagnetic coil adapted to rotate at a speed proportional to its energization and means for varying the length of the path of said coil in accordance with the response of said light sensitive element.

1,946,613
SPRING REACTION NEUTRALIZER

Roderic M. Cross, Minneapolis, Minn., assignor to Grosvenor M. Cross, Newton Center, Mass.

Application July 7, 1928. Serial No. 291,016
9 Claims. (Cl. 267—8)

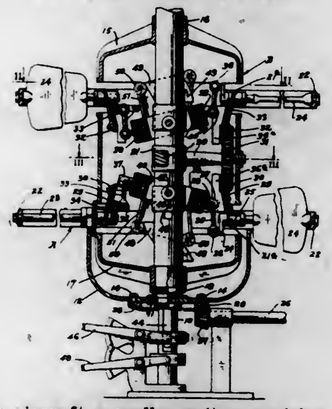


9. A shock absorber for vehicle bodies including, in combination, a fluid pressure chamber, a cylinder oscillatably mounted within said chamber, a check valve arranged to permit the passage of fluid from said chamber into said cylinder, the latter being provided with a constricted opening through which the fluid contained therein may be returned into said chamber, means for drawing fluid by way of said check valve into said cylinder upon oscillation of said cylinder in one direction, and means for forcing said fluid out of said cylinder and into said chamber by way of said constricted opening, said last mentioned means being operable upon sudden oscillation of said cylinder in the opposite direction.

1,946,614
HELICOPTER

Milford L. Darr, Oakland, Calif.

Application December 21, 1931
Serial No. 582,267
5 Claims. (Cl. 170—163)

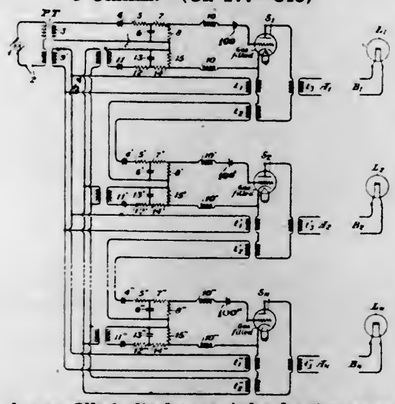


1. An aircraft propeller unit comprising a main shaft, propeller blades mounted for revolution about the main shaft, each of said blades being mounted for rotation about its longitudinal axis to permit pitch adjustment, a crank arm on the inner end of each blade, a bearing member surrounding the main shaft and longitudinally movable with relation thereto, cams on the main shaft engageable by said bearing to tilt the bearing when it is moved longitudinally, and means connecting said crank arms and said bearing member whereby movement of the bearing member will vary the pitch of the propeller blades.

1,946,615
SIGNALING SYSTEM

Charles Sidney Demarest, Ridgewood, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York

Application October 1, 1932. Serial No. 635,835
8 Claims. (Cl. 177—346)



1. A gas-filled discharge tube having a grid-cathode circuit including a biasing means for applying a negative charge to the grid and a first and second resistance connected in series, a starting circuit connected across said first resistance, a stopping circuit connected across said second resistance, said starting circuit including a condenser connected in parallel with said first resistance and a rectifier poled so that the application of an alternating current to said starting circuit wil cause a charge to build up on said condenser of a polarity to apply across said first resistance a voltage opposing that of said biasing means, said stopping circuit including a condenser connected in parallel with said second resistance and a rectifier so poled that the application of an alternating current to said stopping circuit will cause a charge to build up on the condenser therein of a polarity to apply across said second resistance a voltage aiding that of said biasing means, means for applying an alternating current to said starting circuit, and means controlled by the discharging of said tube for applying an alternating current to said stopping circuit.

1,946,616
GAME APPARATUS

Thomas J. Dixon, Chicago, Ill.

Application April 25, 1931. Serial No. 532,921
17 Claims. (Cl. 273—103)

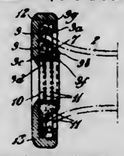


1. In game apparatus of the character described, a target unit having a plurality of compartments with ball outlets, a counting rack adjacent said outlets and including stepped runways one for each ball outlet, a ball hold-back adjacent said rack to retain the balls in the runways thereof, a return runway into which the balls from said rack are delivered, means to operate said hold-back to release the balls from said rack to said return runway, the runways of said rack being open to exhibit the balls thereon to the player, and a ball collecting and retaining stand to which the return runway delivers the balls.

1,946,617
ATTACHMENT FOR USE IN CONNECTION WITH TELEPHONES

Alfred Elboz, Bristol, England

Application June 22, 1931, Serial No. 546,051, and in Great Britain June 23, 1930
2 Claims. (Cl. 179—185)



1. An attachment for telephones comprising an annular disinfectant retainer adapted to fit within a telephone mouth piece, the front of the container being open and the inner and rear walls thereof perforated, a cap forming a closure for the open front of the container, an outer ring engaging the cap and provided with an internal circumferential groove, the walls of which are cut away at spaced intervals to form openings, and a resilient retaining member seated in said groove and having portions thereof extended through the openings in the wall of the groove for engagement with the mouth piece.

1,946,618
NUT AND PROCESS OF MAKING THE SAME

Jason A. Fitch and Clifford D. Watson, Youngstown, Ohio

Application November 17, 1930
Serial No. 496,262
6 Claims. (Cl. 10—86)

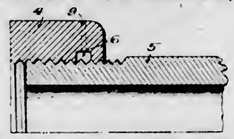


1. The process of forming a nut with a projection from one face which consists in initially forming a blank into cup-shape and punching a hole therein, next reshaping the cup-shaped blank into a mass of a shape substantially that of a frustrum of a cone with the top thereof at the point where the projection is to be formed, and finally reshaping the mass into nut formation with the projection from one face thereof.

1,946,619
METHOD OF SEALING LEAKS IN THREADED JOINTS

Eugene C. Furman, Newport News, and Edmund F. Heard, Hampton, Va.

Application May 12, 1933. Serial No. 670,778
3 Claims. (Cl. 285—159)

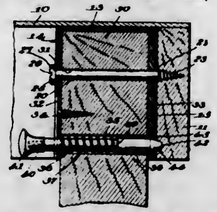


1. Method for sealing leaks in threaded pipe joints which includes providing a recess in the threaded portion of the outer member of the joint, providing an opening from the surface of said member to said recess when a leak occurs, introducing into said recess through said opening a sealing material under greater pressure than the pressure existing in the interior of the joint, and retaining the pressure on said material until it hardens in said recess.

1,946,620
LEG CONSTRUCTION FOR FURNITURE

Walter S. Hallawell, Milan, Ind.

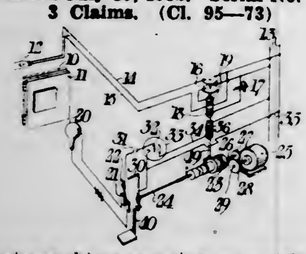
Application October 28, 1932. Serial No. 640,087
1 Claim. (Cl. 45—11)



A table having a top and bracing flanges depending from the underface of the top, a U-shaped metal bracket secured to a flange adjacent each corner of the table, a leg hingedly connected at one end to each bracket, means for hingedly connecting the legs to the bracket and comprising plates secured to a pair of the opposite faces of the hinged portion of the legs

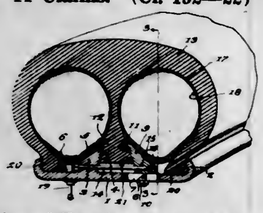
with the plates disposed between said faces and the side walls of the U-shaped brackets, the brackets, legs, and plates being provided with alined passages, a screw received by the passages and having its inner end threaded into one of the flanges for securing the bracket and a leg to the top and for adjusting the frictional contact between the plates and the side walls of the bracket, the brackets, plates, and legs having other alined passages, a pin carried by each leg provided with a shoulder and received by the last-mentioned passages, a spring embracing the pin and having one end engaging the shoulder and at the other end engaging a plate for maintaining the spring under compression, the passage in the other plate forming a bearing for the inner end of the pin, each flange adjacent a leg being provided with sockets to receive the inner end of the pin for retaining the leg in an operative or inoperative position.

1,946,621
PHOTOGRAPHIC PRINTING APPARATUS
Roy S. Hopkins, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application July 30, 1932. Serial No. 626,748
3 Claims. (Cl. 95—73)



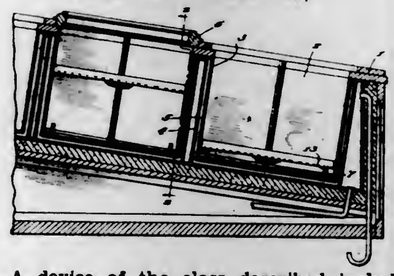
1. Photographic apparatus comprising means for supporting a sensitized layer in position to be exposed to light rays of unknown intensity and means for terminating the exposure, means movable through a path at a uniform rate from a predetermined position to a position at which the exposure terminating means is actuated, and means for varying the length of the path between said positions in accordance with the intensity of the light rays falling on said layer.

1,946,622
TIRE
Joseph J. Hruska, Milwaukee, Wis.
Application March 16, 1932. Serial No. 599,606
11 Claims. (Cl. 152—22)



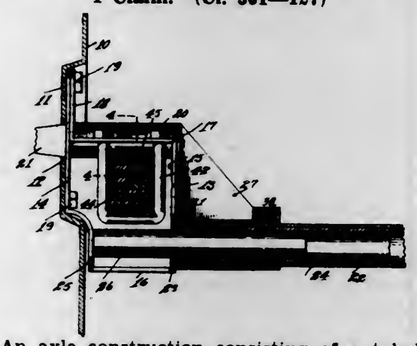
1. A device of the class described comprising a rim, a tire casing secured to said rim, said tire casing provided with a centrally located longitudinally extending heel, a stationary cleat secured to said rim and engaging one side face of said centrally located heel, and an adjustable cleat adapted to be clamped into engagement with said centrally located heel for firmly anchoring said centrally located heel in engagement with said rim.

1,946,623
DISPLAY TRAY ASSEMBLY
Hiram D. Irwin, Beckley, W. Va.
Application September 21, 1932
Serial No. 634,245
5 Claims. (Cl. 220—93)



1. A device of the class described including a base standard having legs adapted to abut the corners of a compartment, a screw rotatably connected therewith, and a tray connected with the screw and adapted to shift toward or away from the base standard as the screw is rotated, said legs limiting said base standard against horizontal shifting in said compartment.

1,946,624
AXLE MOUNTING
Louis Herman Irish, Byers, Tex.
Application July 1, 1932. Serial No. 620,488
1 Claim. (Cl. 301—127)

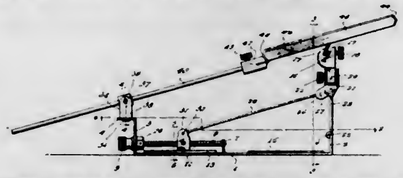


An axle construction consisting of a tubular main axle, a substantially square bracket attached thereto, a sleeve attached to the bracket and mounted within the tubular axle, a reinforcing tubular member affixed within the sleeve and projecting through and permanently fastened to the lower portion of the bracket, a substantially triangular shaped web interconnecting the tubular axle and the bracket, means for fastening the bracket to a conventional brake housing, means for fastening a conventional spring within the bracket and a stub axle permanently affixed to the upper and inner side of the bracket and passing through the bracket and brake housing for the mounting of a wheel.

1,946,625
SHEARS SHARPENER
Charles C. Isaacs, Pittsburg, Kans.
Application February 5, 1930. Serial No. 426,151
6 Claims. (Cl. 51—69)

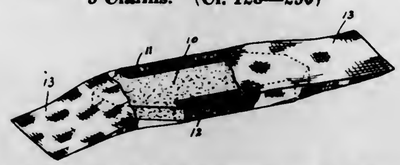
1. A sharpener for shears comprising shears-holding means pivotally mounted, a bracing rod pivoted to the shears holder, a mounting pivoted

to said rod and formed with a threaded bore, a threaded shaft rotatably mounted and engaged through the bore of the mounting to move the mounting longitudinally of the shaft when the shaft is rotated and angularly adjust the shears



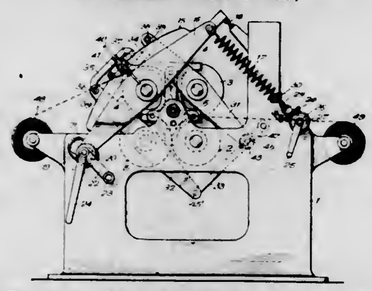
holder, means to prevent said mounting from turning with said shaft when the shaft is rotated, an abrading element, and means to mount the abrading element for movement across a blade of a pair of shears held by said holding means in contact with the blade.

1,946,626
SANITARY NAPKIN
Vola M. Jurgensen, Philadelphia, Pa., assignor to The Kendall Company, Boston, Mass., a corporation of Massachusetts
Application June 6, 1932. Serial No. 615,658
5 Claims. (Cl. 128—290)



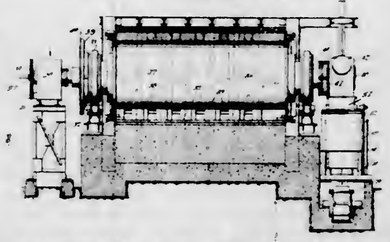
1. As an article of manufacture, a sanitary napkin comprising in combination a pad of absorbent material, separate strips of a relatively thin soft non-irritating material covering longitudinal edges but not the central areas of the top or bottom surfaces of the pad, and a covering surrounding said pad and said strips.

1,946,627
MACHINE FOR THE WET TREATMENT OF FABRICS
Hans Karrer, Uzwil, Switzerland
Application May 25, 1932, Serial No. 613,579, and in Switzerland October 8, 1931
17 Claims. (Cl. 8—19)



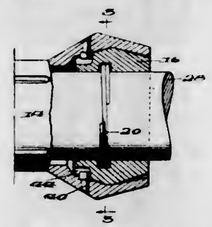
1. In a machine for the wet treatment of fabrics, the combination with a treatment chamber for the fabric, four rotatable pressure rolls for the fabric enclosing said treatment chamber, lateral sealing means for said treatment chamber, a device for exerting a uniform pressure between said rolls at the four places of contact and along the whole length thereof, control means adapted for simultaneously regulating the pressure between all the rolls from a single operator's position, means provided at said operator's position for moving the rolls into separated position for providing access to said treatment chamber, pressure equalizing means adapted for automatically maintaining uniformity of pressure between all the pressure rolls, of driving means for passing the fabric through the rolls.

1,946,628
PROCESS OF COKING COAL
Gustav Komarek, Chicago, Ill., assignor to Berwind Fuel Co. of Delaware, Chicago, Ill., a corporation of Delaware
Application May 12, 1930. Serial No. 451,683
4 Claims. (Cl. 202—28)



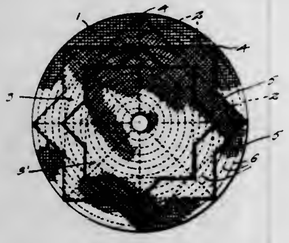
1. A process of coking coal for producing dense lumps of coke, which comprises continuously feeding coal into a heated rotary retort chamber and maintaining the quantity of coal and coke therein at substantially one-half the cubical area of the chamber, rotating the retort at a speed to produce tumbling of the coal and coke therein and shifting of the mass, externally heating the retort and maintaining the coal at a substantially uniform coking temperature, thereby forming lumps of coke having an exterior crust and weighing not substantially less than the weight of the original coal, and discharging the lumps of coke from the retort.

1,946,629
COLLET CHUCK
Guy Laughlin, Birmingham, Mich.
Application January 16, 1933. Serial No. 652,072
14 Claims. (Cl. 279—51)



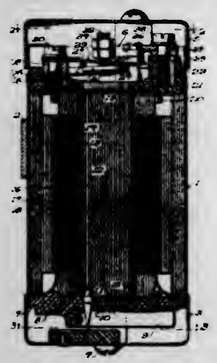
6. In a collet, a tubular body having a series of spring fingers provided with bearing surfaces inclined outward toward the meeting portions thereof and disposed at acute angles to the longitudinal axis of the body, and pads having outside bearing surfaces inclined outward toward the intermediate portions of the pads and bearing against said first named bearing surfaces, the bearing surfaces of said pads being at more acute angles to the longitudinal axis of the body than the angles of said first named bearing surfaces allowing the pads to rock about axes approximately at right angles to the longitudinal axis of the body.

1,946,630
BUFFER WHEEL
Alexander Levett, Mount Vernon, N. Y.
Application January 16, 1932. Serial No. 587,139
1 Claim. (Cl. 51—193)



A buffer wheel of the character described, comprising a plurality of superimposed disks arranged concentrically, a star-like cloth body disposed against each side of the body of disks and having a plurality of points each extending to the periphery of the disk body, a second star-like body disposed against the outer face of each of the first bodies and having an equal number of points arranged to extend along a line passing through the points of the first body, the points of the second mentioned star-like bodies being located a substantial distance inwardly of the points of the adjacent first mentioned bodies, each of said star-like bodies being stitched to the disk bodies throughout the edge thereof, the stitching passing through the disk bodies, and radial lines of stitching passing through the disk bodies and the star-like bodies upon opposite sides thereof, said radial lines of stitching passing through the points of the star-like bodies.

1,946,631
ELECTRICAL APPARATUS
Warren P. Loudon, Dayton, Ohio, assignor to Delco Aviation Corporation, Dayton, Ohio, a corporation of Delaware
Application May 4, 1931. Serial No. 534,971
11 Claims. (Cl. 175—357)

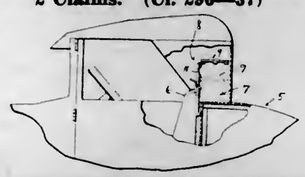


1. An induction coil comprising a casing housing a magnetizable core forming a portion of an electric circuit, primary and secondary windings around said core, means within the casing and responsive to the magnetism in said core for interrupting the circuit to said primary winding and insulating means interposed between said core and said interrupting means within the casing.

1,946,632
MANUFACTURE OF MIXED ESTERS OF CELLULOSE
Carl J. Malm, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
No Drawing. Application January 11, 1929
Serial No. 331,958
22 Claims. (Cl. 260—101)

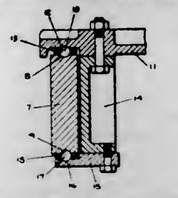
1. The process of making organic esters of cellulose which comprises treating cellulose with an acyl halide selected from the group which consists of the halides of the aralkyl monocarboxylic acids, the aromatic monocarboxylic acids, and the aliphatic monocarboxylic acids including the cycloparaffinic, and subsequently acylating that product with an agent containing less carbon atoms than the acyl halide.

1,946,633
FOLDABLE RACK
Lewis J. Meyer, Tererro, N. Mex.
Application January 27, 1931. Serial No. 511,603
2 Claims. (Cl. 296—37)



1. In combination, a coupé automobile having a package space behind its seat, the back of said seat rising above the floor of said space, said floor having an opening therein adjacent said back of the seat, a vertical member arranged in said opening and supported by said back of the seat and the sides of said opening, said vertical member being vertically slidable relative to said floor and said back of the seat to bring the same to the desired height, a swingable member, hinge means connecting one edge portion of said swingable member to an upper part of said vertical member whereby said swingable member may be swung rearwardly from a vertical position above said vertical member to a depressed position to the rear of said vertical member, means on said swingable member arranged to engage means on said vertical member when said swingable member is in said vertical position whereby said swingable member is prevented from being swung forwardly of said vertical position.

1,946,634
MINING MACHINE
Ernst F. Muller, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Application May 29, 1930. Serial No. 457,327
2 Claims. (Cl. 262—28)

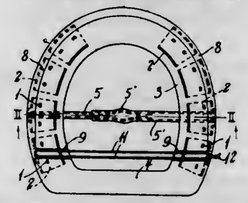


1. In a mining machine, a support, a substantially horizontal ring mounted on said support, a turntable having a circular portion overlying the upper face of the ring, a horizontally projecting cutter bar mounted on the turntable, means for swinging the turntable relative to the ring, balls interposed between said circular portion and said upper face to support the turntable for rotation relative to the ring, a plurality of circumferentially spaced brackets depending from and bolted to the turntable, an annular member bolted to and supported by said brackets in underlying relation to the lower face of said ring, and balls engaged between the lower face of the ring and said annular member to prevent tilting of the turntable relative to the ring.

1,946,635
CELLULOSE ORGANIC ESTER COMPOSITION CONTAINING DERIVATIVES OF DIETHYLENE GLYCOL
Thomas F. Murray, Jr., and William O. Kenyon, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
No Drawing. Application June 6, 1933
Serial No. 674,542
7 Claims. (Cl. 106—40)

1. A composition of matter comprising a cellulose organic ester and B-phenoxy B'-chloro ethyl ether.

1,946,636
HORSESHOE OF RUBBER OR SIMILAR MATERIAL
Egil Nygaard, Oslo, Norway
Application May 26, 1931, Serial No. 540,139, and in Norway June 4, 1930
6 Claims. (Cl. 168—4)



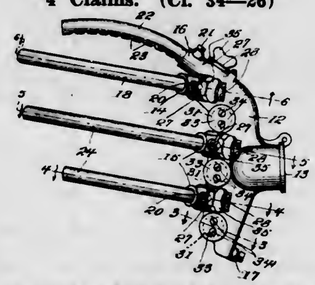
1. A horseshoe comprising a main pad body of yielding material having opposite shoe branches, nail-attaching inlays of metal so embedded in either branch of the yielding material as to enable mutual adjustment of the branches to fit the inlays in proper position to the hoof, a separate non-elastic transverse member of definite length and connecting inlays in one branch directly and non-elastically with inlays in the opposite branch in the fitted position of the branches so as to transfer an outwardly directed force on one inlay as an inwardly directed force on the connected opposite inlay.

1,946,637
MOP SQUEEZING DEVICE
Edward Pavek, Minneapolis, Minn.
Application June 27, 1932. Serial No. 619,390
24 Claims. (Cl. 15—261)

1. A mop wringer having in combination, a frame adapted to be supported on a pail, a mop squeezing means carried by said frame, means for operating said means including a member extending upwardly above said frame, a bar secured to said member and extending upwardly therefrom, a plate bent intermediate its ends to extend about said bar and have its end portions directed forwardly of said bar, one of said portions being reversely bent to form a hook adapted to embrace a mop handle and the other portion extending at one side of said hook forming therewith a passage through which said handle must pass to engage said hook.

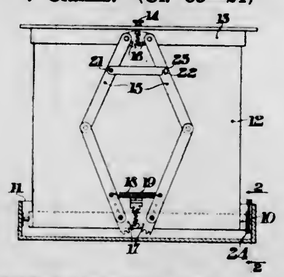


1,946,638
DRIER
Lillian R. Rasmussen, Long Beach, Calif.
Application January 7, 1931, Serial No. 507,268
Renewed December 13, 1933
4 Claims. (Cl. 34—26)



1. In a combined hair drier and steamer, a body having an inlet port, discharge nozzles communicating with and extending from said body and shaped to extend over the top and around the sides of the head, individual means for controlling the discharge from each of the nozzles, discharge chambers extending transversely of said body between and below the nozzles, and means to control said chambers.

1,946,639
FOLDING PROJECTION SCREEN
William A. Riddell, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application June 30, 1931. Serial No. 547,907
7 Claims. (Cl. 88—24)



1. In a folding projection screen, the combination with a casing, a spring roller mounted there-

in, a screen wound on said roller and a cross-bar attached to the free end of the screen, of a lazy tongs including hinged side arms centrally and pivotally connected between said casing and said cross-bar and intermeshing gear segments on said side arms for equal movement thereof.

1,946,640
METHOD OF MAKING WASH-OFF RELIEF IMAGES

Merrill W. Seymour, Irondequoit, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

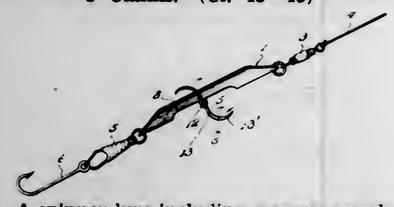
No Drawing. Application December 27, 1930 Serial No. 505,206
10 Claims. (Cl. 95—5.6)

1. The method of making a relief image which comprises printing a light image from the emulsion side on a layer having sensitivity increasing away from such side, producing therefrom an image of graded solubility, said image being least soluble where the sensitivity was greatest, and washing off the more soluble portions of the layer.

1,946,641
SPINNER

Alexander Sisco, Lorain, Ohio

Application March 14, 1932. Serial No. 598,743
3 Claims. (Cl. 43—45)

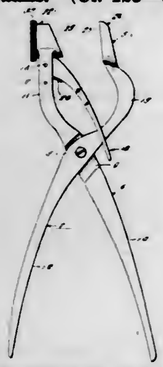


1. A spinner lure including a spoon angular in cross section provided with a slot and having bearings disposed adjacent to the slot, and a spinner carried by the spoon and rotatable in the slot, said spinner having trunnions journaled in the bearings and being adapted to rotate as the spoon is shifted in the water.

1,946,642
PHIMOSIS HEMOSTATIC FORCEPS

Stephen Ulysses Sivon, Ravenna, and Charles Arthur Sivon, Painesville, Ohio

Application March 15, 1932. Serial No. 598,940
9 Claims. (Cl. 128—305)



5. A surgical instrument of the type described comprising a pair of pivotally connected levers, cooperating heads on the levers provided with penis receiving openings arranged to register when the levers are closed, a tubular knife on one of the heads and a knife receiving opening provided in the other head, said tubular knife and the knife receiving opening surrounding the penis receiving openings in the heads.

1,946,643
CELLULOSE ORGANIC ESTER COMPOSITION CONTAINING AN ESTER OF TRICHLORO TERTIARY-BUTYL ALCOHOL

Henry B. Smith, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

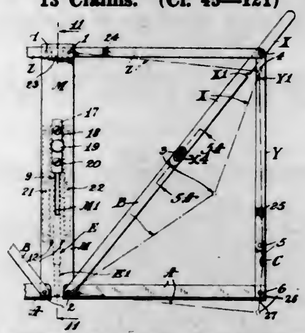
No Drawing. Application August 12, 1932 Serial No. 628,590
10 Claims. (Cl. 106—40)

1. A composition of matter comprising a cellulose organic ester and an ester of trichloro tertiary-butyl alcohol.

1,946,644
MUSIC STAND

John R. Spica, Brooklyn, N. Y.

Application April 1, 1927. Serial No. 180,114
13 Claims. (Cl. 45—121)



1. A collapsible music stand comprising a standard of telescopically collapsible tubular metal sections, and a collapsible and tilting music-desk having a vertical leg constituting the topmost section of said standard and supporting the desk; said desk in relation to said vertical leg comprising a central portion and two collapsible wings pivotally secured to said central portion; means for tilting the desk, toward which means said wings move in their collapsing movement, said means being mounted on said central portion to slide thereof in a direction generally at right angles to the collapsing movements of the wing and to be held frictionally in any position to which it has been slid; arms pivoted at their upper ends to said vertical desk-leg intermediate the ends of the latter; and pivoted connections between said sliding means and the other ends of said arms and between said sliding means and the upper end of said vertical leg, whereby the movement of said frictional sliding means varies the angle of the desk relative to the vertical standard including the desk-leg.

1,946,645
METHOD FOR THE PRODUCTION OF LOW VISCOSITY CELLULOSE DERIVATIVES

Cyril J. Staud and Thomas F. Murray, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

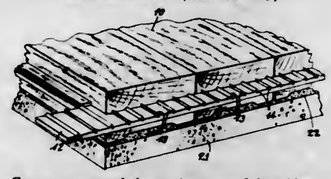
No Drawing. Application June 24, 1929 Serial No. 373,469
11 Claims. (Cl. 260—102)

1. The process which comprises subjecting an air dried cellulose acetate to the action of a gas which will combine with the residual moisture in the cellulose acetate to form an oxidizing compound.

1,946,646
FLOOR

Raymond W. Storm, Pelham Manor, N. Y.

Application June 3, 1932. Serial No. 615,229
18 Claims. (Cl. 20—7)



1. A floor comprising, in combination: a plurality of abutting courses of elements, each course comprising elements having grooved ends in alignment; splines inserted into the grooves of meeting ends of elements in contiguous courses; said splines of a thickness to substantially fill said grooves and extending substantially continuously across the floor; raised portions carried by one side of each spline, said portions engaged into the material of the elements at one side of the grooves whereby to prevent separation of the elements of a course and to control expansion of the material of the elements.

1,946,647
PROCESS OF COATING COPPER WITH CELLULOSE ACETATE LACQUER

Ernest R. Taylor and Harry I. Davis, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

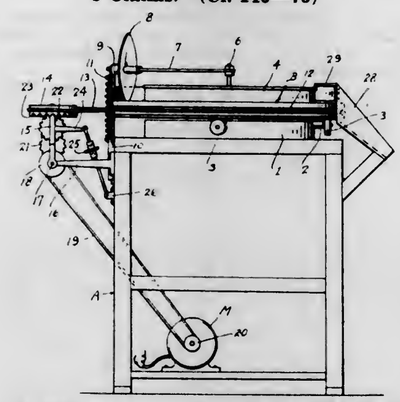
No Drawing. Application May 25, 1932 Serial No. 613,551
1 Claim. (Cl. 91—68)

A process of lacquering copper, comprising treating the copper with a hot alkaline solution, washing, drying, and subsequently coating it with a cellulose acetate lacquer containing phosphoric acid.

1,946,648
SEED POTATO CUTTER

Ralph W. Taylor, Painesville, Ohio

Application September 26, 1932 Serial No. 634,941
3 Claims. (Cl. 146—73)



1. A seed potato cutter comprising a supporting frame, a horizontally arranged table rotatably supported on the frame and having an annular groove in its upper face, a rim connected with the top of the table and spaced inwardly from the groove and forming a container, a vertically arranged rotary cutter disk of concavo-convex shape with its concave face facing towards the center of the table supported from the frame above the table and having a part extending into a portion of the groove, spring means for holding the disk in the groove, means for rotating the table, a chute for receiving the articles cut by the disk, and a deflector plate connected to the chute and extending across the grooved part of the table for deflecting the cut articles into the chute.

1,946,649
VEGETABLE JELLY COMPOSITION

Arthur W. Thomas, New York, and Morris Mattikow, Brooklyn, N. Y.

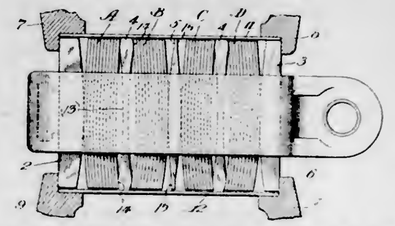
No Drawing. Application November 18, 1929 Serial No. 408,156
6 Claims. (Cl. 99—11)

1. A vegetable jelly composition substantially devoid of animal constitutents and containing a limited amount of acid less than one part, about one part of agar agar and more than about one half a part to about one part of gum karaya, said composition being in dry form and being capable of dissolving in hot water to yield a stiff and elastic jelly mass upon setting at ordinary room temperatures.

1,946,650
FRICTION DRAFT GEAR

Herbert E. Van Dorn, Chicago, Ill., assignor to William E. Van Dorn, Pasadena, Calif.

Application June 16, 1928. Serial No. 285,813
6 Claims. (Cl. 213—30)



1. In a cushioning means, a group of spring plates in frictional contact with each other and curved from end to end, a rigid member having a convex face engaged with the convex face of the plates, and a second rigid member having a concave face engaged with the concave side of the plates.

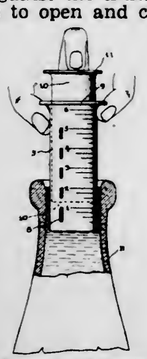
1,946,651
DEVICE FOR REMOVING A MEASURED QUANTITY OF CREAM FROM A BOTTLE

Joseph D. Viruette, Schenectady, N. Y., assignor of one-half to Edward T. Leary, Schenectady, N. Y., and one-fourth to Bettina De Angelo, Oneonta, N. Y.

Refiled for abandoned application Serial No. 272,557, April 24, 1928. This application August 1, 1932. Serial No. 627,212
1 Claim. (Cl. 210—51.5)

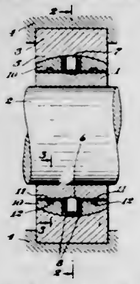
In a device for removing a measured quantity of liquid from a bottle, the combination of two separately formed units; one of said units comprising an outer cup having a bottom formed with an annular groove around its margin, the upright wall of the outer cup having an opening therethrough at a point near its bottom; the second one of said units being tubular and open at its top and bottom and slidable upward and downward while having an imperforate wall

snugly fitting against the inner surface of said outer cup so as to open and close the opening



and to have its lower end seated snugly in said annular groove, for the purpose specified.

1,946,652
BEARING
August Gunnar Ferdinand Wallgren, Stockholm, Sweden, assignor to Aktiebolaget Nomy, Stockholm, Sweden, a corporation of Sweden
Application April 15, 1931, Serial No. 530,181, and in Sweden April 22, 1930
14 Claims. (Cl. 308—35)



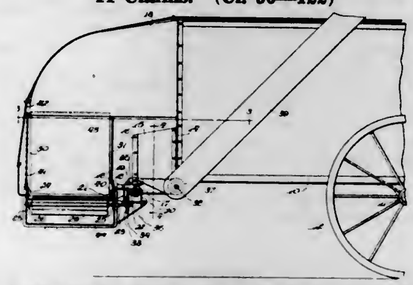
11. A bearing device comprising circular bearing elements for sustaining bearing load under static and starting conditions, sliding bearing blocks, and means for causing said blocks to relieve said circular elements when running conditions are established.

1,946,653
BRUSH
Meyer Wein, Brooklyn, N. Y.
Application June 6, 1932. Serial No. 615,568
1 Claim. (Cl. 15—193)



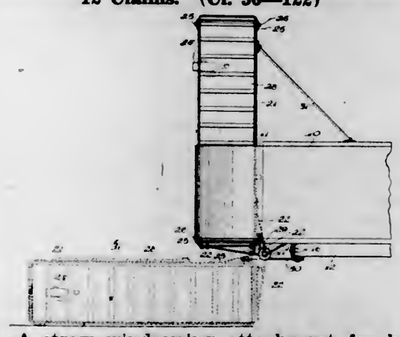
A brush including a sheet metal plate member having a plurality of openings therein and sleeves integral with the plate and surrounding said openings, material molded on the plate and embedding and anchoring the bristle portions which project through the sleeves, a fixture for attaching a handle to the brush, a portion of said fixture being embedded in said molded material, a flanged cover fitting over the plate, a centering device for the cover including an upwardly projecting stud partially embedded in the molded material and adapted to pass through an opening in the cover, and a clamping device for the cover screwed on to the exposed projecting end of the stud.

1,946,654
STRAW WINDROWER FOR HARVESTER-THRESHERS
Albert B. Welty, Kenilworth, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 26, 1932. Serial No. 639,546
11 Claims. (Cl. 56—122)



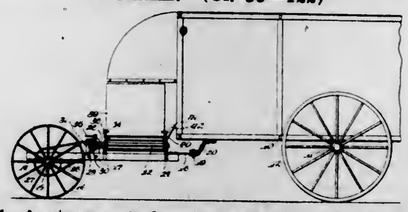
1. A straw windrowing attachment for harvester threshers, said attachment comprising a transversely disposed conveyer connected to the rear end of the thresher part of the harvester thresher with its grainward end arranged substantially on the longitudinal median line of the thresher part and its other end located a substantial distance laterally in a stubbleward direction of the thresher part, means to drive the conveyer in a stubbleward direction, and a deflector hinged on a longitudinal horizontal axis adjacent the grainward end of the conveyer, said deflector adapted in one position to direct the straw from the thresher part onto the conveyer and in another position to deflect the straw off-end relative to the grainward end of the conveyer directly onto the ground.

1,946,655
STRAW WINDROWER FOR HARVESTER-THRESHERS
Alexus C. Lindgren, Chicago, and Clemma R. Raney, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application October 26, 1932. Serial No. 639,724
12 Claims. (Cl. 56—122)



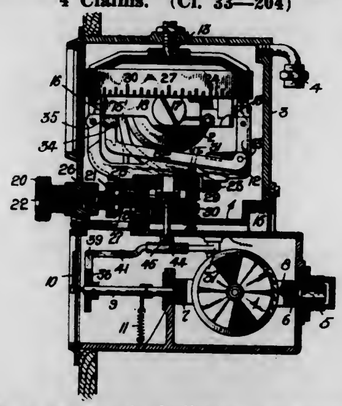
1. A straw windrowing attachment for harvester threshers having a longitudinal thresher part discharging straw at its rear end, said attachment embodying an elongated frame adapted to be connected to the rear of the thresher part by means enabling said frame to be positioned lengthwise in the line of draft clear of the discharging straw or in a position transverse thereto to receive such discharging straw.

1,946,656
STRAW WINDROWER FOR HARVESTER THRESHERS
Alexus C. Lindgren, Chicago, and Clemma R. Raney, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application October 26, 1932. Serial No. 639,725
9 Claims. (Cl. 56—122)



1. A straw windrowing attachment for harvester threshers, said attachment comprising a wheel carried frame adapted to be trailed behind the thresher part of the harvester thresher, and a pair of conveyers arranged transversely end to end on said frame in position to receive the straw from the thresher part.

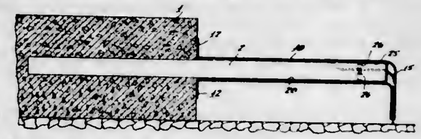
1,946,657
GYROSCOPIC INSTRUMENT FOR AIRCRAFT
Stephen J. Zand, Forest Hills, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application March 15, 1933. Serial No. 660,801
4 Claims. (Cl. 33—204)



1. In a gyroscopic indicator for aircraft, a turn indicator gyroscope, a free directional gyroscope, means for maintaining the latter normally locked, and means operated by precession of said turn gyroscope for releasing said directional gyroscope during a turn.

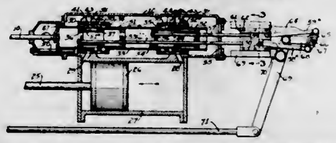
1,946,658
METHOD OF JOINING CONCRETE SECTIONS AND DOWEL PIN COVERS THEREFOR
Edward H. Angier, Framingham, Mass.
Application April 9, 1932. Serial No. 604,231
2 Claims. (Cl. 94—6)

2. A dowel cover of the kind described, comprising a waterproof dowel encircling portion and a projecting end portion, and means to hold packing material in the outer end of said cover,



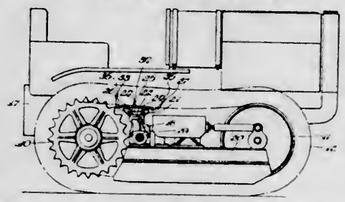
and means to enclose and secure said packing therein.

1,946,659
ENGINE VALVE GEAR
Abner D. Baker and Louis R. Baker, Swanton, Ohio
Application February 4, 1932. Serial No. 590,824
3 Claims. (Cl. 121—146)



1. In a steam engine having a cylinder, a piston in said cylinder, and a main crosshead connected to be driven by said piston, a ported sleeve valve, a gear for reciprocating said valve, a pair of cylindrical cut-off valves reciprocable within said sleeve valve, rods connected to said cut-off valves respectively and extending forwardly therefrom, a pair of slide blocks to which the forward ends of said rods are respectively connected, a crosshead in which said blocks are guided, a bracket in which said last crosshead is reciprocable, an extension on said last crosshead, a lever pivoted intermediate its ends on said extension, links connecting opposite ends of said lever and said slide blocks respectively, means for adjusting said lever for concomitantly moving said cut-off valves toward or away from each other, and lever and link connection between said extension and said main crosshead for reciprocating said cut-off valves.

1,946,660
TOP TRACK SUPPORT FOR TRACK TYPE TRACTORS
David B. Baker, Riverside, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application January 24, 1933. Serial No. 653,300
6 Claims. (Cl. 305—9)



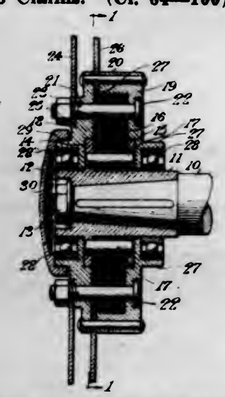
5. Means for supporting the upper run of a track for a tractor having a bracket located between the runs of the track, said means comprising a support having transversely arranged side wings bolted to the bracket, said wings being inclined upwardly to merge in raised front and rear extensions to form seats, a longitudinally disposed slide having bosses resting on said seats, and means detachably securing the bosses in said seats.

1,946,661

FLEXIBLE DRIVING MECHANISM

Frederick William Baker, Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y., a corporation of New York

Application January 20, 1928. Serial No. 248,020
8 Claims. (Cl. 64—100)



1. The combination with a vehicle wheel and a driving axle for said wheel of a hub unit for connecting said wheel to said driving axle, said hub unit comprising a wheel receiving member and an axle engaging member, means on said wheel receiving member for detachably mounting said wheel, means on said axle engaging member for detachably securing same to said driving axle, means for holding said wheel receiving member and said axle engaging member against relative lateral movement with respect to each other, means for supporting said wheel receiving member with respect to said axle engaging member to adapt said members for relative circumferential movement with respect to each other and for maintaining said wheel receiving member and said axle engaging member in concentric relationship when said wheel receiving member is carrying a load, and means including a resilient non-metallic mass between said wheel receiving member and said axle engaging member for resiliently transmitting torsional driving stresses directly from said axle engaging member to said wheel receiving member through said resilient mass.

1,946,662

METHOD OF AND MEANS FOR REDUCING RETROACTIVE CURRENTS IN THREE-ELECTRODE IONIC AMPLIFIERS

Stuart Ballantine, Boonton, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application April 3, 1923, Serial No. 629,702
Renewed December 30, 1932
31 Claims. (Cl. 179—171)



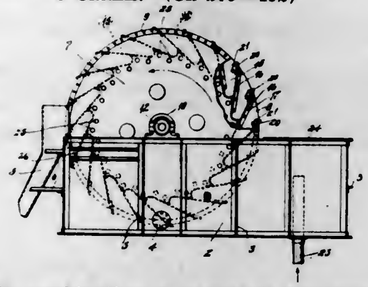
12. The combination with an audion amplifier stage including an input circuit, an output circuit and a three-electrode audion having capacity across the grid and plate terminals and a capacity across the grid and filament terminals, of means establishing compensative currents through said capacity across the grid and filament terminals to oppose retroactive currents through said grid-plate capacity.

1,946,663

DEWATERING DEVICE

George W. Behnke, Durand, Mich., assignor to Simplicity Engineering Company, Durand, Mich., a corporation of Michigan

Application November 5, 1930. Serial No. 493,518
6 Claims. (Cl. 209—492)



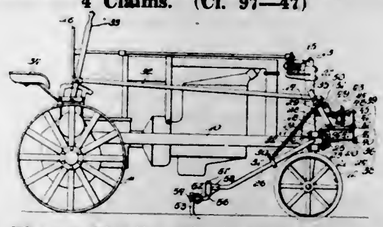
1. In combination, a receptacle for receiving a mixture of water and solid materials, a dewatering wheel projecting into said receptacle and provided with perforated pockets adapted to receive said mixture, the inner end of one pocket being secured to the bottom wall of the adjacent pocket at a point intermediate its length said pockets being disposed to automatically discharge outwardly and into an adjacent discharge chute at a predetermined point in the rotation of the wheel.

1,946,664

TRACTOR CULTIVATOR

Bert R. Benjamin, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application June 15, 1932. Serial No. 617,303
4 Claims. (Cl. 97—47)



1. The combination of a tractor, a cross-member on the forward end of the tractor extending beyond each side thereof, a dragbar trailing from each end of the cross-member and pivoted thereto for lateral swinging movement, means on the tractor for swinging the dragbars, means on the tractor for lifting and lowering each dragbar, an implement carrying beam extending transversely across the path of the tractor and beyond each side thereof, and an angular pivot member on each end portion of the implement beam having a horizontal arm journaled on the beam and a vertical arm journaled on the end of the dragbar.

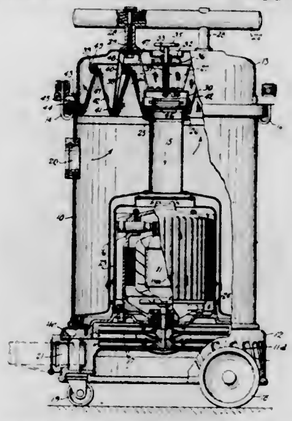
1,946,665

DUST SEPARATOR

Tom Conrad Bléth, Alsten, Sweden, assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware

Application February 20, 1932, Serial No. 594,181, and in Germany February 27, 1931
11 Claims. (Cl. 183—58)

3. In a vacuum cleaner of the vertical type having an annular dust collector and an internal, axially extending air pipe, a cover for said dust collector, and a dust separation member mounted between said dust collector and said cover, said member being folded into zigzag form, means to normally produce flow of air through said dust separation member to said air pipe, a plurality of means for supporting the



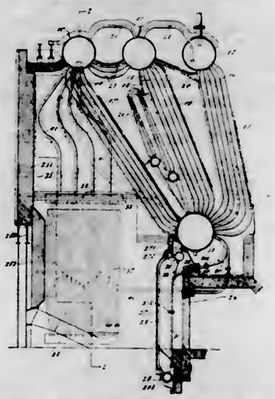
folds of said member, certain of said means being movable for shaking said member and compressible means adapted to be quickly released for causing a counter-current of air to pass through the dust separation member due to expansion of the compressible means during the shaking operation.

1,946,666

STEAM BOILER

John E. Black, Rumson, N. J., assignor, by mesne assignments, to Fuller Lehigh Company, a corporation of Delaware

Application July 2, 1927, Serial No. 202,999
Renewed April 24, 1931
14 Claims. (Cl. 122—235)



1. In a steam boiler and its setting, a furnace wall, an upper steam and water drum, a lower horizontally extending water chamber and a second horizontally extending water chamber intermediate said lower water chamber and said steam and water drum, water tubes joining said water chambers and located adjacent said furnace wall, and upwardly extending water circulatory tubes connected to and spaced along said upper header and connected to said steam and water drum in a circumferential row.

1,946,667

PRODUCTION OF FURFURAL

Georg Henning Blomqvist and Bertil Sixten Groth, Stockholm, Sweden, assignors to Kemiska Kontrollbyrån Aktiebolag, Stockholm, Sweden, and Aktiebolaget A. Heyman, Vargarda, Sweden, joint-stock companies of Sweden

Application August 21, 1930, Serial No. 476,890, and in Sweden December 17, 1929
1 Claim. (Cl. 260—54)

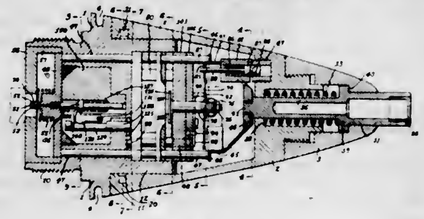
Method of producing furfural from pentosan-containing materials consisting in lixiviating the raw material with a dilute solution of a non-oxidizing strong mineral acid at a temperature between 100 and 180° centigrade so as to form furfural, allowing the furfural thus formed to accumulate in the lixiviation liquid, thereupon separating said liquid from the residues of the raw material, and distilling off furfural from the liquid thus separated.

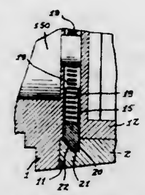
1,946,668

FUSE

Frederick W. Bold, Chelsea, Mass.

Application October 10, 1931. Serial No. 568,023
8 Claims. (Cl. 102—37)





1. In a fuse of the kind described, impact firing means, a time actuated firing means, a plurality of firing pins one sliding within another constructed and arranged for one firing pin to be actuated by impact independently of the time actuating device.

8. In a fuse of the kind described, a base, a cap, locking bolts carried by said base, having a bevelled face at the outer ends, a groove formed in the cap and having a cooperating bevelled face, and yielding means adapted to force the locking bolt into engagement with the said groove, the bevelled faces being positioned and arranged to hold the cap and base in constantly tightening contact by the tension of said yielding means.

1,946,669

WRENCH

Lyal R. Boos, Kansas City, Mo.

Application August 4, 1932. Serial No. 627,481
3 Claims. (Cl. 81—169)

1. A wrench comprising a handle provided at one end with a stationary jaw and at the other end with an annular flange, a grip member having an elongated reduced bearing portion extended into the open flanged end of said handle

[illegible] MECHANISM
[illegible], Stanbridge, England, [illegible] Corporation, New [illegible] of New York
[illegible]. Serial No. 248,020
[illegible] (Cl. [illegible]—199)



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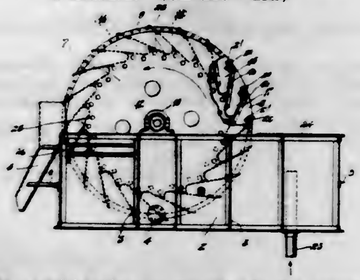
[illegible] MEANS FOR REDUCING
[illegible] IN THREE-
[illegible] AMPLIFIERS
[illegible] Sweden, N. J., assignor, by
[illegible], to Radio Corporation of
[illegible] York, N. Y., a corporation of

[illegible] April 3, 1933, Serial No. 629,702
[illegible] December 30, 1933
[illegible] (Cl. 179—171)



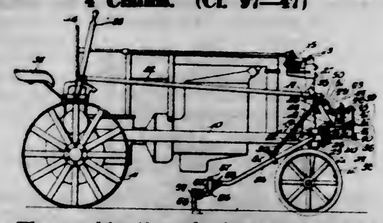
[illegible]ction with an audion amplifier
[illegible] an input circuit, an output cir-
[illegible]ade audion having ca-
[illegible] grid and plate terminals and
[illegible] the grid and filament termi-
[illegible] compensative cur-
[illegible] capacity across the grid and
[illegible] to oppose retroactive cur-
[illegible] said grid-plate capacity.

1,946,663
DEWATERING DEVICE
George W. Behnke, Durand, Mich., assignor to Simplicity Engineering Company, Durand, Mich., a corporation of Michigan
Application November 5, 1930. Serial No. 493,518
6 Claims. (Cl. 209—492)



1. In combination, a receptacle for receiving a mixture of water and solid materials, a dewatering wheel projecting into said receptacle and provided with perforated pockets adapted to receive said mixture, the inner end of one pocket being secured to the bottom wall of the adjacent pocket at a point intermediate its length said pockets being disposed to automatically discharge outwardly and into an adjacent discharge chute at a predetermined point in the rotation of the wheel.

1,946,664
TRACTOR CULTIVATOR
Bert R. Benjamin, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 15, 1932. Serial No. 617,303
4 Claims. (Cl. 97—47)

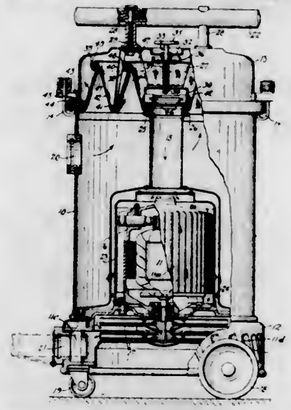


1. The combination of a tractor, a cross-member on the forward end of the tractor extending beyond each side thereof, a dragbar trailing from each end of the cross-member and pivoted thereto for lateral swinging movement, means on the tractor for swinging the dragbars, means on the tractor for lifting and lowering each dragbar, an implement carrying beam extending transversely across the path of the tractor and beyond each side thereof, and an angular pivot member on each end portion of the implement beam having a horizontal arm journaled on the beam and a vertical arm journaled on the end of the dragbar.

1,946,665
DUST SEPARATOR
Tom Conrad Bléth, Alsten, Sweden, assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application February [illegible], and in Germany [illegible], 1931,
11 Claims.

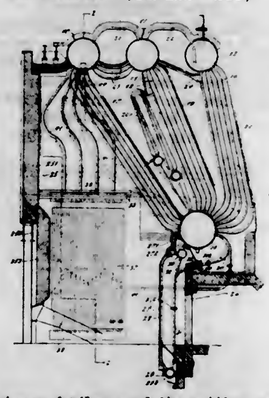
3. In a vacuum [illegible] having an [illegible] ternal, axial [illegible]

said dust collector, and a dust separation member mounted between said dust collector and said cover, said member being folded into zigzag form, means to normally produce flow of air through said dust separation member to said air pipe, a plurality of means for supporting the



folds of said member, certain of said means being movable for shaking said member and compressible means adapted to be quickly released for causing a counter-current of air to pass through the dust separation member due to expansion of the compressible means during the shaking operation.

1,946,666
STEAM BOILER
John E. Black, Rumson, N. J., assignor, by mesne assignments, to Fuller Lehigh Company, a corporation of Delaware
Application July 2, 1927, Serial No. 202,999
Renewed April 24, 1931
14 Claims. (Cl. 122—235)

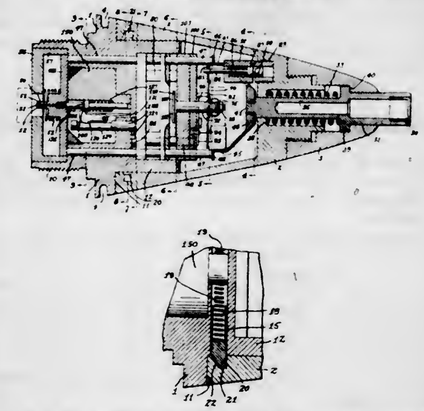


1. In a steam boiler and its setting, a furnace wall, an upper steam and water drum, a lower horizontally extending water chamber and a second horizontally extending water chamber intermediate said lower water chamber and said steam [illegible] said fur-
[illegible] water cir-
[illegible] along
[illegible] said steam
[illegible]

1,946,667
PRODUCTION OF FURFURAL
Georg Henning Blomqvist and Bertil Sixten Groth, Stockholm, Sweden, assignors to Kemiska Kontrollbyrån Aktiebolag, Stockholm, Sweden, and Aktiebolaget A. Heyman, Vargarda, Sweden, joint-stock companies of Sweden
Application August 21, 1930, Serial No. 476,890, and in Sweden December 17, 1929
1 Claim. (Cl. 260—54)

Method of producing furfural from pentosan-containing materials consisting in lixiviating the raw material with a dilute solution of a non-oxidizing strong mineral acid at a temperature between 100 and 180° centigrade so as to form furfural, allowing the furfural thus formed to accumulate in the lixiviation liquid, thereupon separating said liquid from the residues of the raw material, and distilling off furfural from the liquid thus separated.

1,946,668
FUSE
Frederick W. Bold, Chelsea, Mass.
Application October 10, 1931. Serial No. 568,023
8 Claims. (Cl. 102—37)



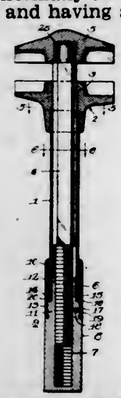
1. In a fuse of the kind described, impact firing means, a time actuated firing means, a plurality of firing pins one sliding within another constructed and arranged for one firing pin to be actuated by impact independently of the time actuating device.

8. In a fuse of the kind described, a base, a cap, locking bolts carried by said base, having a bevelled face at the outer ends, a groove formed in the cap and having a cooperating bevelled face, and yielding means adapted to force the locking bolt into engagement with the said groove, the bevelled faces being positioned and arranged to hold the cap and base in constantly tightening contact by the tension of said yielding means.

1,946,669
WRENCH
Lyal R. Boos, Kansas City, Mo.
Application August 4, 1932. Serial No. 627,481
3 Claims. (Cl. 81—169)

1. A wrench comprising a handle provided at one end with a stationary jaw and at the other end with an annular flange, a grip member having an elongated reduced bearing portion extended into the open flanged end of said handle

and having rotative engagement therewith, a sleeve encircling the grip member and also encircling an adjacent portion of said handle at a position concentric with said bearing portion, said sleeve being normally fixed with respect to said grip member and having an annular shoul-



der rotatively engaging said flange, and a movable jaw having a shank adjustably engaging said grip member, said shank and said stationary jaw having complemental means constructed and arranged to prevent relative rotation thereof.

1,946,670

FERRO-TITANIUM ALLOY AND METHOD OF MAKING SAME

George F. Comstock, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 14, 1931 Serial No. 557,135 5 Claims. (Cl. 75—22.5)

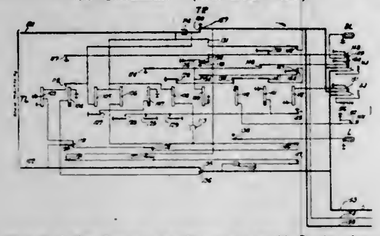
1. A low-carbon, silicon-containing, ferro-titanium alloy having a low melting point and being practically free from aluminum, and embodying a titanium content from 15 to 25%, a silicon content about 20%, from a trace to less than 1% of carbon, and the balance substantially iron.

1,946,671

TELEPHONE SYSTEM

Thomas F. Crocker, Chicago, and Victor S. Tharp, deceased, late of Elmhurst, Ill., by Bessie M. Tharp, administratrix, Elmhurst, Ill., assignors, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application October 19, 1931. Serial No. 569,680 20 Claims. (Cl. 179—27)



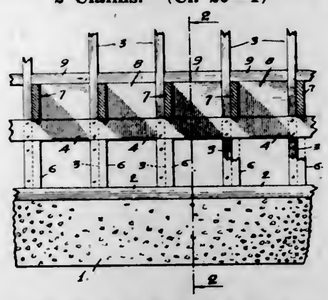
1. In a telephone system, a switch train comprising a selector repeater and a connector, a trunk line terminating in the selector repeater, means for extending calls of two classes to the trunk line, means for momentarily unbalancing the trunk line responsive to the extension of a call of one class thereto, and means in the selector repeater controlled by said momentary unbalance for determining the particular manner in which the selector repeater and connector will subsequently operate to further extend the call.

1,946,672

BUILDING CONSTRUCTION

John B. Cuneo, San Francisco, Calif.

Application June 12, 1933. Serial No. 675,467 2 Claims. (Cl. 20—1)



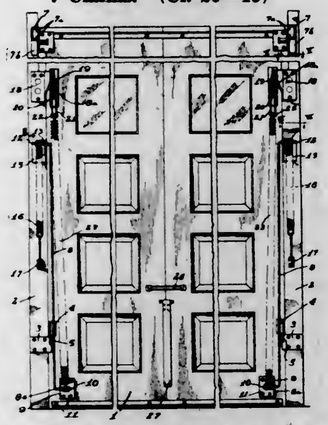
1. In a building construction, the combination with the joists, studding and mud-sill supporting said studding of a frame building, of a stringer extending the length of said building and connecting said studding to tie the same together and thereby strengthen said building, said stringer being applied to said studding directly under the ends of said joists to support the same; and a supplementary studding member applied to each stud, each member resting upon said mud-sill and engaging and supporting the portion of the stringer directly under the adjacent joist.

1,946,673

DOOR MOUNTING

Owen L. Dautrick, George H. Hufferd, Joseph E. Casse, and Charles U. Stephens, Detroit, Mich., assignors to Crawford Door Company, Detroit, Mich., a corporation of Michigan

Application September 15, 1930 Serial No. 481,894 7 Claims. (Cl. 20—19)



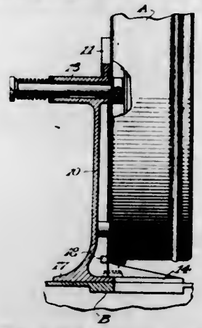
2. In a building having a tiltable and upwardly swingable door, hinge rods connecting said door and building, yielding means for normally urging said hinge rods downwardly, brackets upon said building, fulcrum members pivoted to said brackets and yielding means connecting said fulcrum members and door for urging the former against said door.

1,946,674

REEL AND MAGAZINE SUPPORTING PEDESTAL FOR MOTION PICTURE MACHINES

Augusto Dina, Elizabeth, N. J., assignor to International Projector Corporation, New York, N. Y., a corporation of Delaware

Application April 1, 1930. Serial No. 440,731 3 Claims. (Cl. 242—55)



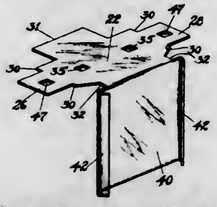
1. A reel pedestal for motion picture machines comprising a vertical post, an elongated journal extending from one side of the post at the top thereof, reel-bracing arms also extending from the top of the post, a pair of elongated spaced feet extending horizontally from the bottom of the post on the opposite side thereof, said feet being spaced apart to permit the passage therebetween of the film from the reel.

1,946,675

CLIP FOR STEEL PARTITIONS

Arthur S. Driver, New York, N. Y., assignor to Partitions, Inc., New York, N. Y., a corporation of New York

Application August 4, 1931. Serial No. 554,997 9 Claims. (Cl. 189—34)



1. A metal partition assembly device comprising a post-contour maintaining portion for preventing twisting of a metal post and having a rail supporting projection and a pilaster cam lock extending therefrom.

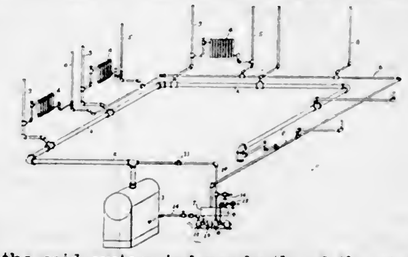
1,946,676

STEAM HEATING SYSTEM

Vincent Eaton, East Cleveland, Ohio

Application April 2, 1930. Serial No. 441,075 8 Claims. (Cl. 237—67)

1. In a device of the class described, the combination of a closed circulatory system including one or more radiating units, means for supplying steam thereto, means for sucking air from the atmosphere and for discharging the same



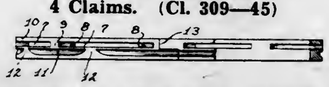
to the said system independently of the steam pressure in said system, and means for continuously circulating the steam and air and re-circulating the air through the said system.

1,946,677

PISTON RING FOR INTERNAL COMBUSTION ENGINES

Albert P. Fall, Toledo, Ohio

Application November 19, 1931 Serial No. 576,091 4 Claims. (Cl. 309—45)



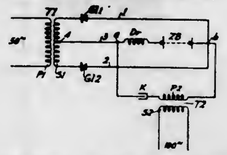
1. A piston ring for internal combustion engines having three vertically spaced ribs arranged with one rib at the bottom of the ring, another rib at the top and a third rib intermediate the top and bottom ribs, the surfaces of all of said ribs lying in the same cylindrical surface, said ring having a series of elongated oil drain openings extending through the ring between the top and middle ribs with said openings closely adjacent and spaced by bridges, said ring also having a plurality of elongated imperforate recesses formed between the middle rib and the bottom rib circumferentially spaced by bridges, the bridges separating the openings being out of register with the bridges separating the recesses, said bridges lying in the same cylindrical surface with said ribs, and the bottoms of said recesses being inclined downwardly and outwardly and meeting the top edge of the bottom rib for providing oil seals between the ring and a cylinder wall.

1,946,678

CURRENT GENERATING SYSTEM

Artur Flad, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany

Application July 18, 1932 Serial No. 623,035, and in Germany July 29, 1931 3 Claims. (Cl. 172—281)



1. In combination, a direct-current load, a source of alternating current of a given frequency, means for rectifying both half cycles of the alternating current from said source and for delivering the rectified current to said direct-current load, an impedance connected in series

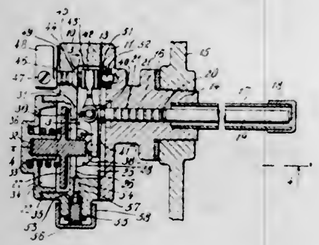
with said direct-current load to minimize the current variations to the load, a transformer, a condenser; and circuit connections placing the condenser and the primary winding of said transformer in series in shunt of the direct-current load and said impedance, whereby alternating current of double said given frequency is delivered by the secondary winding of said signal transformer.

1,946,679

THERMOSTATIC FUEL CONTROL DEVICE

Edward L. Fonseca, Newark, N. J., assignor to The Wilcolator Company, Newark, N. J., a corporation of Delaware

Application February 17, 1930. Serial No. 429,082
5 Claims. (Cl. 236—102)



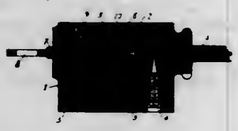
1. In a thermostatic valve, the combination of a valve body having inlet and outlet chambers, a valve controlling communication between said chambers, a thermostatic device connected to said valve body and displaced axially from said valve, a lever operatively connecting said thermostatic device and said valve, an adjusting screw journalled in said body and displaced axially from said valve and thermostatic device, a nut mounted upon said screw, a movable connection beween said lever and said nut and serving as a fulcrum for said lever, and means outside of said body connected to said screw for adjusting the same to move the fulcrum of said lever.

1,946,680

MEANS FOR PREVENTING INTERFERENCE

Charles Samuel Franklin, Buckhurst Hill, and Arthur William Whistlecroft, London, England, assignors to Radio Corporation of America, a corporation of Delaware

Application March 15, 1928, Serial No. 261,984, and in Great Britain April 6, 1927
3 Claims. (Cl. 250—20)



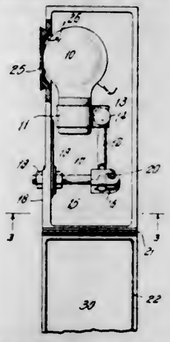
1. A choke coil to be used in electrical systems operating adjacent other electrical devices, including a cylindrical insulating base member having a groove in the periphery of said base member, an inductance in said groove, a connector in each end of an opening through said base member, an insulating spacing member between said connectors, a contact member connecting each end of said inductance to one of said connectors, and a cylindrical insulating member surrounding said inductance and base member.

1,946,681

SUPPORT AND HOUSING FOR PHOTOELECTRIC CELLS

Louis Simon Frappier and Ewald Boecking, Brooklyn, N. Y., assignors to International Projector Corporation, New York, N. Y., a corporation of Delaware

Original application March 30, 1929, Serial No. 351,393. Divided and this application July 24, 1930. Serial No. 470,354
6 Claims. (Cl. 250—27.5)



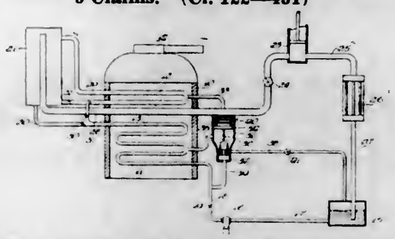
1. In combination, a photoelectric cell compartment having an aperture therein, a photoelectric cell, means for supporting said cell in said compartment and adjusting the position thereof into correct alignment with said aperture and a flexible washer mounted between said cell and said aperture to prevent injury to said cell and form a light seal.

1,946,682

STEAM GENERATING SYSTEM

Charles A. French, Riverside, Ill.

Application June 15, 1933. Serial No. 675,936
5 Claims. (Cl. 122—451)



1. In a boiler of the semi-flash type the combination of a storage drum a preheater coil, means for forcing feed water through the preheater coil, a vaporizing coil connected at both ends to the storage drum, means for connecting the preheater coil to the vaporizing coil including an ejector, said ejector means operative to circulate water from the drum through the vaporizing coil, a water storage container, means for delivering water from the storage drum to the storage container, and means operable by pressure differential between the preheater coil and the vaporizing coil for controlling the flow of water from the storage drum to the storage container.

1,946,683

EDUCATIONAL METHOD

Arthur R. Gabriel, New York, N. Y.

Application June 8, 1933. Serial No. 674,843
1 Claim. (Cl. 35—12)

A method for the aid of sculpturing with a plastic material which consists in shaping the plastic material into long thin strands, and laying said strands upon a backing bearing an outline of an article to be simulated lengthwise of



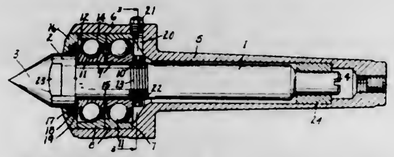
the outline and in conformity with said outline to provide the outer margin of the article to be built up.

1,946,684

LATHE CENTER

Walter W. Gairing, Kalamazoo Township, Kalamazoo County, Mich., assignor to Nielsen, Inc., Lawton, Mich.

Application June 12, 1930. Serial No. 460,564
3 Claims. (Cl. 82—33)



1. A lathe center comprising a spindle having a cylindrical head portion provided with a conical tip at its outer end and a radial bearing portion at its inner end, said spindle having a collar threaded for adjustment thereon and disposed in spaced relation to said head, a holder comprising an internally shouldered head portion and a tubular shank portion, a pair of main radial and thrust bearings arranged in said head portion of said holder and each comprising an inner bearing member arranged on said spindle, an outer bearing member within said holder head and coacting bearing balls, the outer bearing members being in edge to edge abutting relation, one of the inner bearing members being in supporting engagement with the head of the spindle and the other with said adjustable collar, said inner bearing members being normally spaced apart so that they are longitudinally adjustable by means of said collar to take up slack in said bearings, and a closure for said holder head provided with a packing coacting with the head of said spindle, said holder having an opening therein through which a tool may be engaged with said collar.

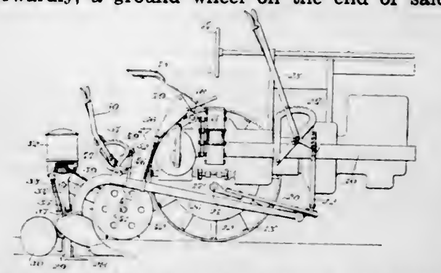
1,946,685

LISTER PLANTER ATTACHMENT FOR TRACTORS

William S. Graham, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application July 28, 1932. Serial No. 625,485
5 Claims. (Cl. 111—63)

1. In a planting attachment for tractors comprising beams connected to a draft frame on the tractor and means on the tractor for lifting and lowering the beams, the combination therewith of planting units mounted on the rear of the respective beams including seed dispensing hoppers mounted for fore and aft tilting movement, a cross-member rigidly connecting the hoppers, an arm fixed on the cross-member and extending forwardly, a ground wheel on the end of said



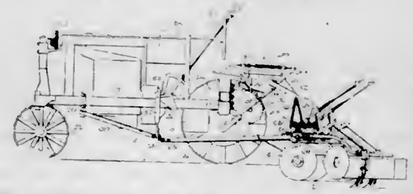
arm, and a driving connection between said wheel and the seed dispensing hoppers.

1,946,686

LISTER CULTIVATOR ATTACHMENT

William S. Graham and Glen J. Olson, Canton, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application April 28, 1933. Serial No. 668,328
6 Claims. (Cl. 97—47)



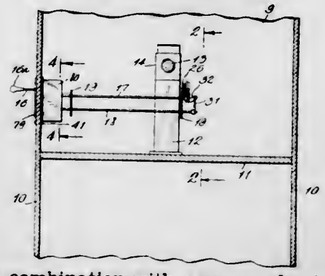
3. A four row lister cultivator comprising two pairs of interconnected furrow following units having the units of each pair arranged in transverse alignment and offset fore and aft from the other pair, the units of each pair being spaced apart and having one unit of the other pair positioned in said space, the connection between each pair of units consisting of a laterally extending bar secured at one end to the inner unit of one pair and having its other end mounted in laterally spaced bearings on the outer unit thereof for movement of said unit axially on the bar, and a draft connection for each unit including means for limiting movement of the units towards and away from one another.

1,946,687

OPERATING MECHANISM FOR CAMERAS

Garnet P. Grant, New York, N. Y.

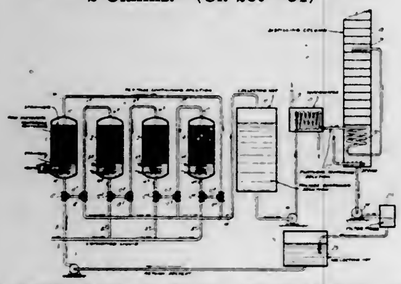
Application October 30, 1931. Serial No. 572,034
16 Claims. (Cl. 95—31)



1. In combination with a camera having rockable means to operate the camera, a mechanism to operate the rockable means comprising a mov-

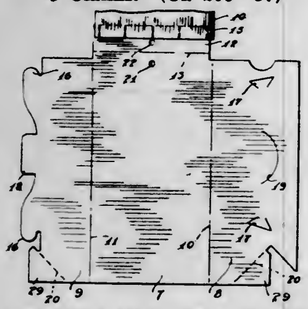
able member connected to the rockable means and provided with a slot and an actuating element disposed through the slot to move the movable member.

1,946,688
METHOD OF PRODUCING FURFURAL
Bertil Sixten Groth and Georg Henning Blomqvist, Stockholm, Sweden, assignors to Kemiska Kontrollbyrån Aktiebolag, Stockholm, Sweden, and Aktiebolaget A. Heyman, Vargarda, Sweden, Swedish joint-stock companies
Application September 25, 1930, Serial No. 484,275, and in Sweden April 28, 1930
2 Claims. (Cl. 260—54)



1. Method of producing furfural from pentosan-containing materials, which in a combined sequence of steps consists in directly producing a pentose-containing solution by lixiviation of the raw material with an aqueous solution at such a temperature that the pentosans are substantially transformed into pentoses, separating the pentose solution thus obtained from the residues of the raw material, then converting pentoses in said solution into furfural by heating at a temperature between 130 and 200° centigrade, and finally distilling off furfural from the furfural solution thus obtained.

1,946,689
SHEET PAPER PACKAGE
Harry S. Haggerty, Detroit, Mich.
Application August 26, 1932. Serial No. 630,569
6 Claims. (Cl. 206—57)



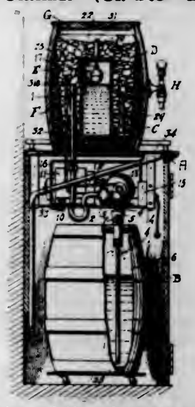
1. In a paper package of the class described: a central panel; an end flap projecting outwardly from one end of said panel and foldable thereupon; a plurality of sheets of paper secured along one of the end edges to said end flap; a side flap at each side of said panel adapted for overlapping with each other to provide a cover for said sheets of paper; and means for securing said side flaps in overlapped relation to each other; and a gromet securing said end flap in folded overlapped relation on said central panel and forming an eyelet for reception of a supporting body.

1,946,690
TILED CONSTRUCTION
George D. Haines, Park Ridge, Ill., assignor to Porcelain Tile Corporation, Wilmington, Del., a corporation of Delaware
Application February 28, 1931. Serial No. 518,977
5 Claims. (Cl. 72—19)



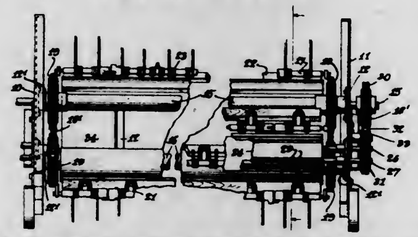
1. The combination of a metallic foundation sheet having rows of tile-locating formations, a multiplicity of sheet-metal tiles secured to the sheet, each tile having marginal formations that coact with the tile-locating formations of the sheet to position the tiles in correct alinement, and a sound-deadening and heat-insulating mineral facing for said sheet beneath the tiles.

1,946,691
BEER COOLING AND DISPENSING APPARATUS
Herman H. Harr, Newark, N. J., assignor, by mesne assignments, to Jack Cowan, Newark, N. J.
Application April 17, 1933. Serial No. 666,396
2 Claims. (Cl. 225—1)



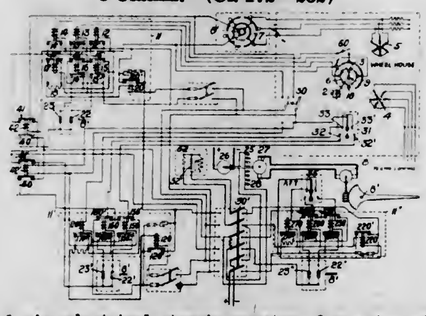
1. In apparatus of the character described, the combination with a liquid supply container, of a dispensing chamber having a draught faucet, means for forcing liquid under gas pressure from said supply chamber to said dispensing chamber and for maintaining pressure in said dispensing chamber, said dispensing chamber having a vertical vent opening, and a valve for closing said opening including a stem slidable in said opening and having a longitudinal passage communicating at its outer end with the atmosphere and a lateral port communicating with the inner end of said passage, a valve seat at the inner end of said opening within said chamber, a valve head on said stem inwardly of said lateral port and within said chamber having a face to engage said seat, means for limiting movement of said stem into said chamber whereby air within the chamber may escape through said lateral port and said longitudinal passage; a float directly connected to said stem inwardly of said valve head to force said valve head against said seat when the level of liquid in said chamber reaches a predetermined point, said valve having such weight and surfaces subject to pressure in said chamber that after said valve head has been moved against said seat by action of the float, said valve will be so held until the pressure in the chamber is reduced below a predetermined point.

1,946,692
GRAIN PICK-UP MECHANISM
Arthur J. Hartley, Peoria, Ill.
Application October 4, 1929. Serial No. 397,223
3 Claims. (Cl. 56—364)



1. In a grain pick-up machine, in combination, an endless carrier having a series of pick-up fingers spaced at intervals thereon normally operating to pick up the grain, and a grain distributing apron disposed in a manner to receive the grain elevated by the pick-up fingers, said grain distributing apron co-operating with the fingers to accomplish the stripping of the grain from the fingers during the movement of same thereover.

1,946,693
ELECTRICAL STEERING DEVICE FOR SHIPS
Frederick S. Hodgman, Glen Rock, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application November 25, 1930
Serial No. 497,993
3 Claims. (Cl. 172—282)



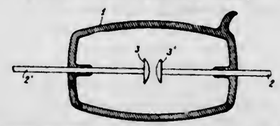
1. An electrical steering system for automatic steering for ships including a follow-up compass-controlled controller and an independent hard-over controller in the wheel house, multispeed contacts on each, an independent electrical control system between each controller and the steering motor, and means in the wheel house for throwing the control from one controller to the other.

1,946,694
ORNAMENTAL SHEET METAL STRUCTURE AND METHOD OF PRODUCING THE SAME
David E. Hunter, Muskegon, Mich., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application February 2, 1931. Serial No. 512,797
3 Claims. (Cl. 189—24)



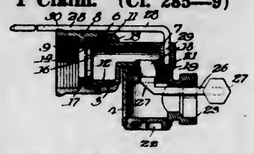
1. A sheet metal tubular structure comprising a plurality of sheet metal sections having substantially the same sectional contour and complementary marginal portions defined by a shoulder spaced inwardly from the edges thereof, said sections being joined by springing the margins of one section sufficiently to overlap the margins of the other section, the shoulder of the underlying marginal portion being accentuated by narrow rabbets extending along the bases thereof and adapted to effect tight, substantially seamless joints between the sections.

1,946,695
SPARK GAP
Waldemar Ilberg, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application May 6, 1931, Serial No. 535,392, and in Germany May 6, 1930
4 Claims. (Cl. 250—38)



1. An ultra short wave spark gap comprising a hermetically sealed barrel-shaped glass vessel, a pair of electrodes spaced substantially .1 mm. apart and supported within said vessel, an atmosphere of hydrogen within said vessel and surrounding said electrodes.

1,946,696
COMBINED NOZZLE AND SPRAYING DEVICE
Martin E. Johnson, Chicago, Ill.
Application August 21, 1931. Serial No. 558,459
1 Claim. (Cl. 285—9)



A swivel hose nozzle coupling comprising in combination, a body member adapted for connection to a hose, a delivery head member, and a pivotal frictional connection between said head and body permitting said head to be swung into various angular positions relatively to the body, said connection including a tubular projection on one of said members having an apertured end wall, a hollow screw having its head positioned in said projection and its shank extending through the aperture to be threaded into the remaining member, packing material disposed between the screw head and the end wall of said projection,

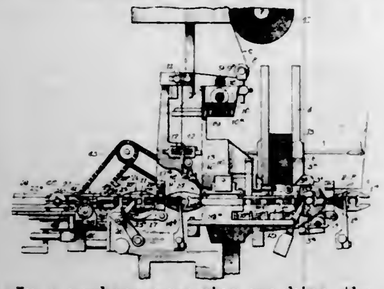
and resilient means for placing said material under compression and for compensating for wear in said material.

1,946,697

PACKAGE WRAPPING MACHINE

Arthur E. Johnson, Oak Park, and John F. Lindsey, Chicago, Ill., assignors to Wm. Wrigley Jr. Company, Chicago, Ill., a corporation of Delaware

Application March 19, 1931. Serial No. 523,692
11 Claims. (Cl. 93—7)



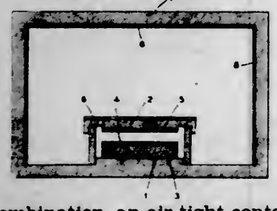
1. In a package wrapping machine, the combination of package feeding and wrapper applying mechanism, including means for feeding wrappers to said wrapper applying mechanism whereby the packages are discharged therefrom with the wrappers folded lengthwise around the same and with unfolded portions projecting beyond the ends thereof, means for transporting the partially wrapped packages from said wrapper applying mechanism, including folding members operative to fold the leading webs of the wrapper ends against the ends of the packages, a frame beyond said transport means having a passage adapted to receive the packages, folders loosely mounted at the entrance to said passage in line with the package wrapper ends and operative to fold the webs opposite the first folded webs against the ends of each package, and means on said frame and beyond said folders for applying adhesive to the remaining unfolded portions of the wrapper ends and folding and sealing the same against the package ends.

1,946,698

ARRANGEMENT FOR QUARTZ OSCILLATORS

Wilhelm Kummerer, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application April 14, 1932, Serial No. 605,142, and in Germany April 14, 1931
7 Claims. (Cl. 171—327)



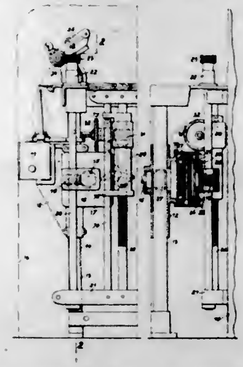
1. In combination, an air tight container coated on its inner surface with a heat absorbing substance, a piezo-electric crystal within said container and in direct contact therewith, an electrode spaced a slight distance away from said crystal, said electrode being coated on its upper and lower surfaces with a heat absorbing substance.

1,946,699

DEVICE FOR LIFTING AND LOWERING THE SPINDLE AND RING BEAMS OF SPINNING, TWISTING, AND THE LIKE MACHINES

Johann Jacob Keyser, Aarau, Switzerland

Application May 27, 1930, Serial No. 456,226, and in Germany and Switzerland July 25, 1929
5 Claims. (Cl. 74—14)



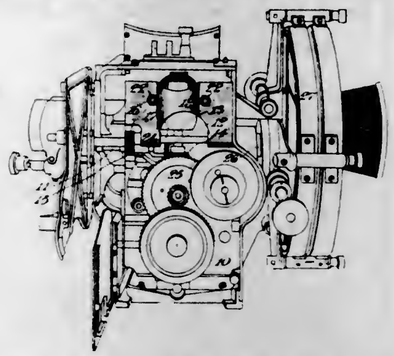
1. In a device of the character described, a stationary vertical beam guide, a support slidable on said beam guide, a horizontal beam carried by said support, a driving gear carried by said support and movable therewith, said gear comprising a rotary member engaging said beam and means cooperating with said member for driving it in different directions and with different speeds; and means cooperating with the first-mentioned means for actuating the same.

1,946,700

SHUTTER SHAFT SUPPORT

Albert Kindelmann, Floral Park, N. Y., assignor to International Projector Corporation, New York, N. Y., a corporation of Delaware

Application February 1, 1930. Serial No. 425,176
5 Claims. (Cl. 88—19.3)



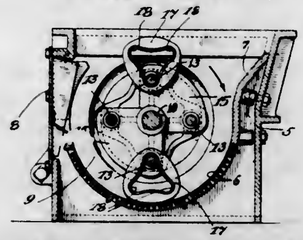
1. In a motion picture machine having a mechanism supporting partition, a detachable shutter shaft supportng plate disposed parallel to and spaced substantially from said partition shaft supporting journals on said plate, a plurality of spacing walls of substantial depth and extending from said plate to said partition to space said plate from said partition and by reason of their substantial depth insuring rigid positioning of said plate on said partition, and means to fasten the plate to the partition.

1,946,701

CRUSHING AND GRINDING MACHINE

Paul S. Knittel, Jersey City, N. J.

Application June 29, 1929. Serial No. 374,816
1 Claim. (Cl. 83—11)



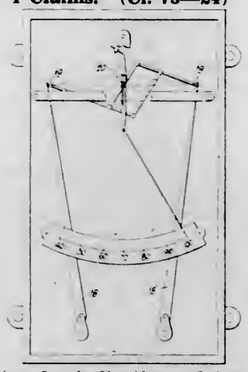
In a machine of the character described, a grinding chamber having a top feed opening extending across the entire width thereof, rotary grinding means mounted within said chamber and consisting of only two series of grinding sectors spaced apart 180°, said grinding chamber having a concave grate below said rotary means, and a breaker plate at one end of said grate extending above the axis of said rotary means, said grate at its other end terminating in spaced relation to the adjacent end wall of the grinding chamber and providing a bypass in line with the feed opening through whioh unground and finished material may fall by gravity from said chamber, said series of sectors acting upon the larger lumps of material fed to said chamber to first crush the same against said breaker plate and subsequently grind the crushed particles upon the surface of said grate to the required size for passage through said bypass.

1,946,702

APPARATUS FOR INDICATING THE RATIO BETWEEN THE LINEAR FUNCTION OF TWO TEMPERATURES

Roger Lanquetin, Neuilly-sur-Seine, France

Original application September 30, 1927, Serial No. 223,118, and in France October 2, 1926. Divided and this application November 1, 1928. Serial No. 316,473
4 Claims. (Cl. 73—24)



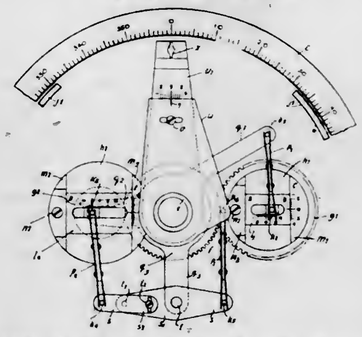
4. Apparatus for indicating relative humidity, comprising in combination, an expansible elongated member adapted to be influenced by the prevailing temperature, an expansible elongated member adapted to be influenced by the temperature of air saturated with moisture, means connected with said members and movable substantially in proportion to the variations of said temperatures, a deformable parallelogram, means for transmitting the movement of the first-mentioned means to said parallelogram, means for adjusting the position of said expansible members, the last-mentioned means being connected with the first-mentioned means, and a pointer connected with and movable by said parallelogram in proportion to the ratio between functions of said temperatures.

1,946,703

DIRECTION FINDER COMPENSATOR

August Leib, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application May 12, 1931, Serial No. 536,795, and in Germany May 13, 1930
5 Claims. (Cl. 250—11)



1. Means for the mechanical compensation of coarse direction-finding errors in electromagnetic direction finding, comprising a radiant absorbing means, a pointer and a scale, a concentric operating spindle and a plurality of planetary wheels, several eccentric drives arranged to rotate with said spindle so that each eccentric is displaceable upon its planetary wheel which revolves by a transmission gear corresponding to the frequency of the error component to be corrected, in two directions at right angles to each other corresponding to the two amplitudes of these components, one of said eccentrics controlling the direction-finder pointer carrier, while each of the other eccentrics controls a crank arm revolvable about the axis of the direction-finder scale upon which slide the next eccentric drive is supported revolvably.

1,946,704

VULCANIZATION OF RUBBER

George L. Magoun, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a corporation of Ohio

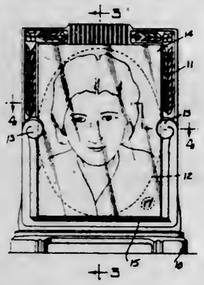
No Drawing. Application May 7, 1932
Serial No. 609,975
30 Claims. (Cl. 18—53)

1. The process of treating rubber which comprises heating rubber and sulfur in the presence of an accelerator comprising a reaction product of an acid amide-imido-halide having the structural formula of

$$R{-}\underset{\displaystyle X}{\underset{|}{C}}{=}N{-}R'$$

where R is a member of a group consisting in an unsubstituted alkyl radical and a hydrocarbon radical of the benzene series, R' is an aromatic hydrocarbon radical and X is a halogen atom and a mercaptothiazole as a constituent thereof.

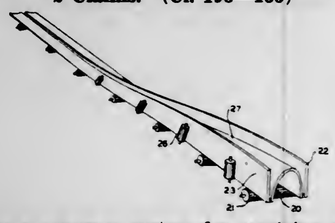
1,946,705
PICTURE FRAME
Jack Manoil, Brooklyn, N. Y., assignor to Man-O-Lamp Corporation, a corporation of New York
Application February 13, 1933. Serial No. 656,456
13 Claims. (Cl. 40—152)



1. A dual purpose picture frame adapted for simultaneously displaying two pictures and comprising a substantially flat, cast panel having an opening through which to view a picture from one face of the panel, and two glass-retaining lugs integral with the panel, carried on opposite sides of the opening and spaced from the other face of the panel and a transparent glass plate slidably received within the lugs and extending beyond the opening to hold the first picture between the panel and glass plate, the glass plate having its edges exposed except where concealed by the lugs and being also adapted to act as a cover glass for a second picture placed directly behind it, the opening being of generally oval shape, the plate being rectangular with one dimension equal to the corresponding dimension of the oval and the other dimension greater than the corresponding dimension of the oval.

13. A picture frame having a panel provided with an opening through which to view a picture, and integral glass-retaining lugs to hold a glass plate against said picture, a transparent glass plate held in the lugs and adapted to permit viewing a second picture through it, and two easel forming bases integral with the panel and disposed opposite one another so that the panel may be tilted either way from the vertical, one base acting as a counterweight for the panel when the other base acts as the support for the frame.

1,946,706
MESSAGE CONVEYER
Roger Mason, Westfield, N. J., assignor to International Communications Laboratories, Inc., Newark, N. J., a corporation of New York
Application November 3, 1931. Serial No. 572,798
2 Claims. (Cl. 198—185)

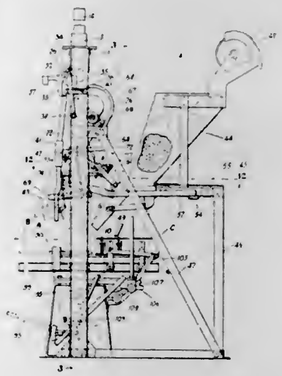


1. In a conveyer system for receiving and delivering a flat article such as a telegraph message, a continuously moving main belt member having auxiliary belt members secured to its edges and normally superposed on said main belt member, and guiding means associated with said main belt member contacting said auxiliary belt members to contract and bow said main belt member whereby the auxiliary belt members are spread apart to permit removal or insertion of articles.

1,946,707
PROCESS OF MANUFACTURING ACETIC ANHYDRIDE
Rudolf Meingast and Martin Mugdan, Munich, Germany, assignor to Consortium fur Elektrochemische Industrie, Munich, Germany
No Drawing. Application October 14, 1927, Serial No. 226,264, and in Germany October 18, 1926
24 Claims. (Cl. 260—123)

1. Process for the manufacture of acetic anhydride which comprises heating acetic acid vapor containing a small amount of a volatile inorganic weak acid as a catalyst for the formation of acetic anhydride to a temperature between 400° and 800° C.

1,946,708
MACHINE FOR MAKING BUILDING BLOCKS
Frank X. Muenzer, Elmore, Ohio, assignor to The Multiplex Concrete Machinery Company, Elmore, Ohio, a corporation of Ohio
Application April 27, 1931. Serial No. 533,021
10 Claims. (Cl. 25—41)



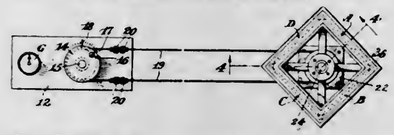
1. In a building block machine, material feeding means operable for successively delivering charges of material, automatic means for rendering said feeding means inoperative, adjustable means for regulating the operation of said automatic means for predetermining the amount of material delivered by said feeding means, means for alternately tamping the material delivered by said feeding means, and a unitary manual control to render inoperative either said feeding means or said tamping means without interrupting the operation of the other.

6. In a building block machine, a mold-supporting base, a material guide, a finishing tamp plate pivoted to said guide, relatively weak spring means normally holding said plate in inoperative position, said plate being adapted to remain by its own weight in operative position, and a mounting for said material guide for movement transversely of said base.

1,946,709
PROCESS FOR MAKING LEAD CARBONATE
Melville Fletcher Perkins, Tacoma, Wash., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 31, 1929
Serial No. 367,635
7 Claims. (Cl. 23—71)

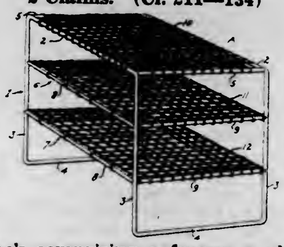
1. The process of producing lead carbonate from chlorine compounds of lead which comprises forming a suspension of said chlorine compound of lead and adding thereto calcium hydroxide in a quantity such that the calcium is slightly less than the theoretical equivalent of the chlorine to be removed, carbonating the mixture in the presence of a suitable oxidizing agent whereby lead carbonate is produced, and treating the carbonate with a small amount of alkali metal compound capable of reacting with the remainder of the chlorine to produce a water soluble chloride.

1,946,710
MAGNETIC COMPASS
Greenleaf Whittier Pickard, Newton Center, Mass., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application December 6, 1928. Serial No. 324,211
5 Claims. (Cl. 33—204)



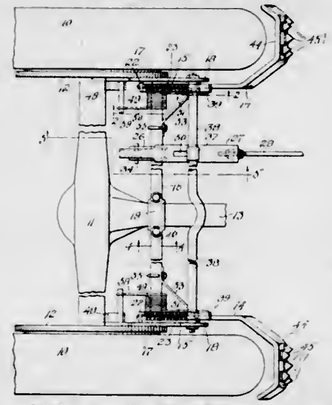
1. An electric ship-compass which includes a source of electric current, an electrical indicating instrument operated thereby, and a Wheatstone bridge varying the effect of said source on said instrument when the ship deviates from its course, at least one of the arms of said bridge including an oblong electrical conductor composed of material characterized by substantially different resistivity in various angular relations to the lines of the earth's magnetic field.

1,946,711
RACK
Olive Quisenberry, Springfield, Mo.
Application March 18, 1932. Serial No. 599,682
2 Claims. (Cl. 211—134)



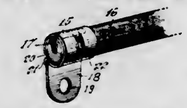
1. A rack comprising a frame; a plurality of vertically spaced shelves supported by said frame, said frame being formed of wire or equivalent material and comprising oppositely disposed, inverted U-shaped frame portions at opposite sides of the rack; and transversely extended frame portions at the bottom of said rack connecting said oppositely disposed, inverted U-shaped frame portions together, said frame being in the form of a one-piece structure, said shelves including longitudinally and transversely extended elements secured to said frame to which woven wire supporting surfaces are attached at the sides and ends thereof.

1,946,712
NONSKID MECHANISM FOR VEHICLES
Robert G. Reed, Dorchester, Mass.
Application June 13, 1932. Serial No. 617,002
7 Claims. (Cl. 188—4)



1. A vehicle provided with supporting wheels and having a nonskid mechanism comprising a ground-engaging brake member pivotally mounted on a fixed part of the vehicle and adapted to be swung up and down on an arcuate path that is in advance of its pivot; means for positively locking said member in an elevated inoperative position; manually actuated control mechanism operable to first adjust said locking means on said fixed part to free said member and thereafter to swing the latter downwardly into engagement with the ground.

1,946,713
CABLE TERMINAL
Charles A. Rowley, East Orange, N. J.
Application January 22, 1932. Serial No. 588,043
1 Claim. (Cl. 173—269)

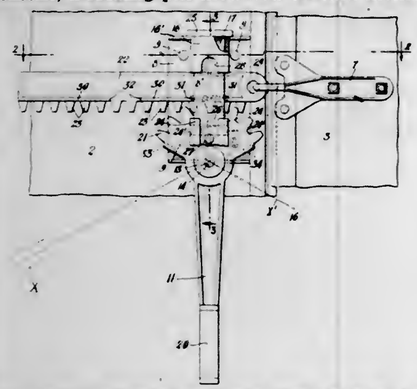


A device for making a cable terminal comprising a flat substantially rectangular metal sheet having an aperture at one end and a pair of spaced projections at the other end, said sheet having a notch in each of its side edges to receive said projections, said sheet having two spaced parallel slits to provide a section which may be readily forced out of the plane of the sheet.

1,946,714
CAR DOOR LOCKING AND OPERATING MEANS
James A. Shafer, East Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application January 14, 1929. Serial No. 332,337
10 Claims. (Cl. 268—44)

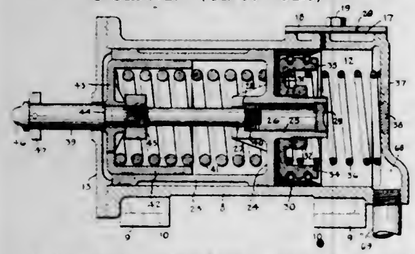
1. In a car door operating and locking mechanism, a supporting member, an operating element mounted on said member, a hasp adapted to be

mounted on said member for operation by said element, a locking pin mounted on said member,



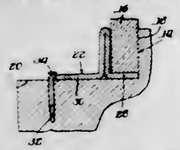
and means whereby said pin may engage both said operating element and said hasp.

1,946,715
HYDRAULIC OPERATOR
Paul S. Shield, Cincinnati, Ohio, assignor to Augustine Davis, Jr., Cincinnati, Ohio
Application February 5, 1931. Serial No. 513,560
5 Claims. (Cl. 60—54.6)



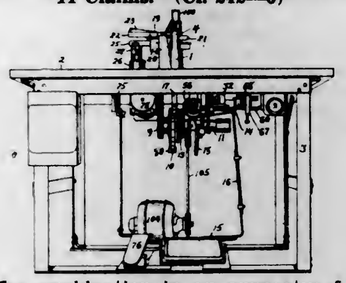
1. A hydraulic operator comprising a cylinder, a piston therein, a spring for returning the piston, an operating rod having operative connection with said piston, a collar on the rear portion of said rod, an automatic latch to engage with said collar when the rod is pushed in, an operating lever arranged to act on the rear end of said rod, said lever being unfastened to said rod, and a spring urging said lever away from said rod.

1,946,716
WINDOW PANE FASTENER AND THE LIKE
Arthur A. Smidt, Brookfield, Ill.
Application March 17, 1933. Serial No. 661,259
17 Claims. (Cl. 20—56.4)



1. In a window sash, the combination of frame members forming an opening, a pane of glass, and means for holding said pane of glass in said sash, said means being provided with a seat portion for said pane of glass, a glass engaging portion angularly disposed in relation to the face of said glass, and a sash engaging portion.

1,946,717
COIL TAPING MACHINE
Edward Snyder, Fort Wayne, Ind., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application February 17, 1930. Serial No. 429,090
11 Claims. (Cl. 242—6)



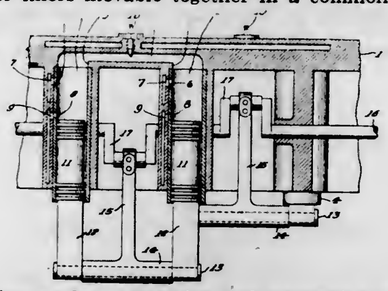
1. The combination in an apparatus for applying tape to electrical coils, of a taping appliance having a race-way and an annular shuttle therein, each provided with a gap; driving means for said shuttle including a control clutch; an arrester operatively associated with said clutch whereby said shuttle may be stopped in the race-way at a point when its gap registers with that in said raceway; means for supplying tape to said taping appliance; a shearing appliance for automatically severing the tape supplied from said last mentioned means; a controller for said shearing appliance; electrical means operatively associated with said arrester, shearing appliance and controller for actuating the same respectively; and manually operated means for controlling said electrical means.

9. The combination in apparatus having a tape applying means and an electrically operated tape severing appliance, of a controller for said appliance having a rotatable driving member operatively associated with said means; a shaft having rotatable and longitudinal movement, axially alined with said member; a clutch wheel fixed on said shaft and engageable with said member; a spring device disposed to restrain rotary and longitudinal movements of said shaft; an electro-magnet for causing engagement between said driving member and clutch wheel opposed by said spring device; an adjustable stop device and engaging means acting to limit rotary movement of said clutch wheel; a switch engaged and released by said clutch wheel; a second electro-magnet for moving said switch into engaged position; a circuit for said magnet; a second circuit for said first magnet closed by said switch only when in engaged position; a third circuit for said shearing appliance closed by said switch only when in released position; and a manually operated switch through which current may be supplied selectively to said first mentioned circuit and to the other circuits.

1,946,718
INTERNAL COMBUSTION ENGINE
John P. Stathas, Chicago, Ill.
Application February 12, 1930. Serial No. 427,732
1 Claim. (Cl. 123—53)

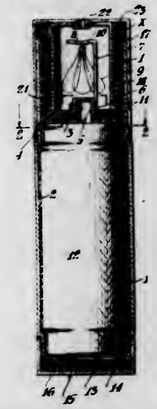
In an internal combustion engine, the combination of a cylinder casting, a plurality of open ended cylinder liners arranged in pairs, the members of each pair being spaced apart, a crankshaft in line with the longitudinal centers of said cylinder liners, said pairs of cylinder liners being disposed consecutively upon opposite sides of said crankshaft, the members of each pair of

cylinder liners being connected by a common combustion chamber, pistons in each pair of cylinder liners movable together in a common di-



rection, and a connecting rod connecting each pair of pistons with said crankshaft, said connecting rods being disposed between the members of the pairs of cylinder liners.

1,946,719
FLAMING LIGHTER
Donald A. Richards, Yonkers, N. Y., assignor to Emanuel Hammerling, New York, N. Y.
Application December 26, 1933
Serial No. 703,913
8 Claims. (Cl. 67—7)



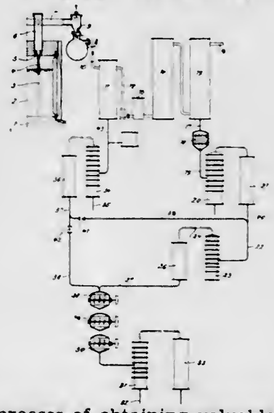
4. A lighter comprising a casing, a partition mounted in said casing and dividing the same into upper and lower parts, said partition having an upward projection, a frame borne by said projection, a catalyst supported by said frame, and a sleeve of absorbent material extending from the lower to the upper part of the casing, surrounding said catalyst in spaced relation therewith, to impart vapor thereto.

1,946,720
NOTCH PLATE
Pearl J. Stearns, Mount Carmel, Pa.
Application March 29, 1932. Serial No. 601,838
2 Claims. (Cl. 61—45)



1. A one-piece notch plate including a flat plate having an upturned outer end and a downturned inner end, each end having a fastener receiving opening, and a strip joined to the plate at the base of the down-turned inner end, said strip having upwardly diverging bendable end portions providing a saddle for embracing the bottom portion of a headpiece resting on the plate.

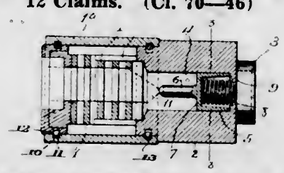
1,946,721
PROCESS OF OBTAINING VALUABLE LIGHT OILS FROM THE DISTILLATION OF COAL
Carl Still, Recklinghausen, Germany
Application August 26, 1931, Serial No. 559,573, and in Germany August 29, 1930
7 Claims. (Cl. 196—40)



1. The process of obtaining valuable light oils from the distillation of coal which consists in forming ducts in the interior of a coal charge, withdrawing the products of distillation by suction from said ducts, separating the light oils from the other distillation products, stabilizing the separated light oils with a polymerizing agent of moderate activity, and then washing with a polymerizing agent of greater activity.

3. A process according to claim 1, in which the light oil is first washed with sulphuric acid of approximately 80 per cent. concentration at ordinary temperature, and is then washed with sulphuric acid of approximately 90 per cent. concentration at a temperature between 30° and 35° C.

1,946,722
KEY EJECTING MEANS FOR CYLINDER LOCKS
Frank E. Thompson, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn.
Application May 27, 1927. Serial No. 194,721
12 Claims. (Cl. 70—46)



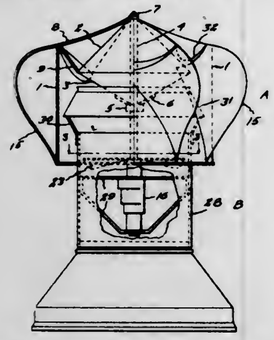
9. In a sliding tumbler cylinder lock, the combination with the plug having a keyway and having a bore at the rear of the keyway and axially alined and in communication therewith, the rear end of the bore being closed, of a hollow plunger mounted in said bore and having a stem extending toward the keyway to be engaged by an inserted key, and an expansion spring housed in the plunger and bearing between the head of the same and the rear closed end of the bore.

1,946,723
DEEP WELL PUMPING MEANS
Robert H. Thompson, Los Angeles, Calif., assignor to Leo M. Harvey, Los Angeles, Calif.
Application November 30, 1931
Serial No. 578,047
5 Claims. (Cl. 103—46)



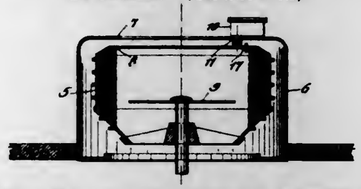
1. In a deep well pumping apparatus, a suspended tubing in which a column of fluid is maintained, a fluid pumping cylinder formed as an integral portion of said tubing contiguous with the lower end thereof, said tubing having an intermediate section of larger bore, a pneumatic pressure motor mounted within and concentric to the larger bore of said tubing and in alignment with said pumping cylinder, a valved plunger operatively mounted in said pumping cylinder and operatively connected to said pressure motor, and means for intermittently applying fluid pressure to the fluid column for actuating said motor.

1,946,724
ROTARY CROWN VENTILATOR
Abraham S. Weinstein, Brighton, Mass.
Application March 12, 1930. Serial No. 435,123
8 Claims. (Cl. 98—72)



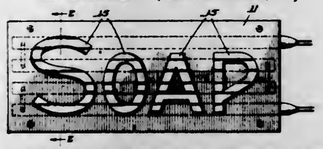
1. In a rotary ventilator of the crown type, the combination with a main spindle, of a plurality of cone-shaped members mounted on said spindle, a substantially cylindrical member spaced from and surrounding said cone-shaped members, and means for connecting said cylindrical member to said cone-shaped members, said connecting means including a plurality of foul air exhausting scoops and a plurality of wind pockets.

1,946,725
AUTOMATIC GYRATION CONTROL MEANS FOR CENTRIFUGAL EXTRACTORS
Nathaniel R. Andrews, Yonkers, and Jacob J. Neuman, New York, N. Y.
Application June 1, 1932. Serial No. 614,726
11 Claims. (Cl. 210—72)



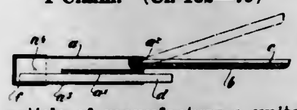
1. Gyration control means for centrifugal extractors, including movable means controlling the transmission of power to the centrifugal basket, means acting to move said movable means to a normal position, and means operatively connected with said movable means having a member engaged and actuated by a part connected with the basket upon gyratory motion of the latter, to shift said movable means from its normal position, said normal position corresponding to one rotary speed of the basket and the shifted position corresponding to another rotary speed of the basket.

1,946,726
SIGN
Robert E. Barclay, Chicago, Ill., assignor to Federal Electric Company, Chicago, Ill., a corporation of New York
Application March 31, 1932. Serial No. 602,130
12 Claims. (Cl. 40—130)



11. An electrical discharge device comprising a plurality of tubular glass portions, the cross-sectional configuration of which is of relatively narrow elongated form, said portions being arranged in adjacent parallel relationship and connected together at their opposite ends to form a tubular grid providing a serpentine channel, a gas within said channel capable of being electrically excited to glow, and means to electrically excite said gas.

1,946,727
MASCARA CASE
Isaac S. Beck, Brooklyn, N. Y.
Application May 25, 1933. Serial No. 672,828
1 Claim. (Cl. 132—79)

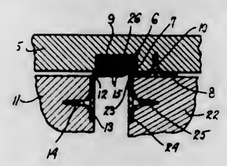


As an article of manufacture a unitary metal case for the purpose set forth having side walls and an end wall, the opposite end being open, interior ribs formed by crimping in the opposite side walls along the median line thereof and extending longitudinally of the case, a carrier slidably supported upon said ribs and occupying the space above said ribs, said carrier having a curved end wall, inwardly extending lugs carried by the case and engageable with said curved end wall

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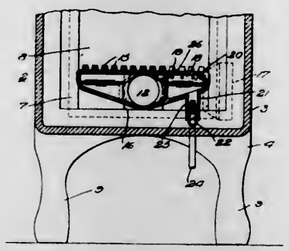
of the carrier to limit the outward movement of the carrier, said ribs and lugs being so related to the carrier as to permit rocking of the carrier on the ribs to disengage the curved end wall from said lugs, and a cap for the open end of the case.

1,946,728
WEATHER STRIPPING
Harold E. Bell, Spokane, Wash.
Application June 21, 1932. Serial No. 618,504
2 Claims. (Cl. 20—69)



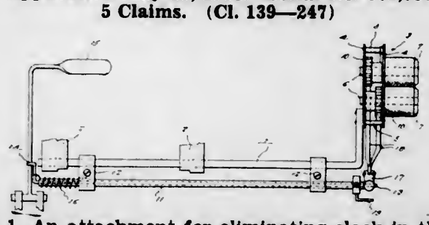
1. A weather stripping comprising a stationary stripping member having a hooked head fixed into a groove on each side of the window frame, a stripping member secured to side members of the upper sash and having a hooked flange slidably disposed within the hooked head of the stationary stripping member, a stripping member secured to the side members of the lower sash and having a right angular flange that is also slidably disposed within the hooked head of the stationary stripping member and in slidable engagement with the stripping member that is secured to the frames of the upper sash, and said lower sash stripping members having an upwardly projecting extension engaging the upper sash stripping members whereby said stripping members are retained in proper engagement when the sashes are closed.

1,946,729
GAS CONSUMING DEVICE
James S. Blackmore, Edgewood, Pa., assignor to Automatic Gas-Steam Radiator Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 10, 1929
Serial No. 391,571
1 Claim. (Cl. 158—115)



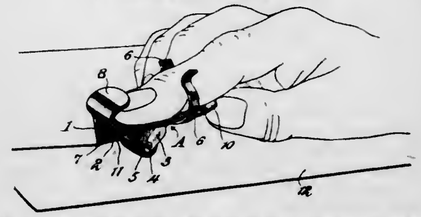
In a gas burner, a linearly extending duct having a connection for a gas supply pipe, arms extending at right angles from said duct at spaced points therealong, nozzles in said arms, and a transverse wall extending entirely across one of said arms for isolating it from the duct, the other arms communicating with said duct, and independent gas supply means for said isolated arm, whereby it constitutes a pilot burner, the nozzles of said last-mentioned arm being disposed to provide divergent flame jets for igniting gas issuing from the nozzles of adjacent arms.

1,946,730
LOOM ATTACHMENT
Perry A. Burnett, Allgood A. Fallis, and Daniel S. Pritchett, Experiment, Ga.
Application May 18, 1933. Serial No. 671,756
5 Claims. (Cl. 139—247)



1. An attachment for eliminating slack in the threads from the bobbins in the magazine of a loom comprising a pair of opposed, coacting rolls for the reception therebetween of the threads, a shaft mounted for oscillation on the loom, resilient means for actuating the shaft in one direction, means operatively connecting the shaft to the loom for actuation by said loom in the opposite direction, an arm on the shaft, relatively reversed ratchet wheels connected with the rolls, and pawls mounted on the arm and operatively engaged with the ratchet wheels for actuating said ratchet wheels in opposite directions when the shaft is actuated by the loom.

1,946,731
PAPER CUTTER
Douel Castain, New Orleans, La.
Application January 26, 1933. Serial No. 653,733
5 Claims. (Cl. 164—83)

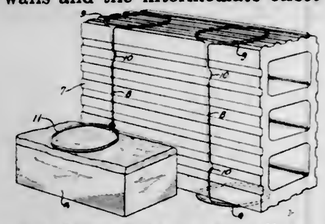


5. In a paper cutter, the combination of a frame; a knife blade extending downwardly from the bottom of said frame and having its cutting edge disposed longitudinally of the frame; a wide guide roller rotatably supported on the frame below the latter and with its axis normal to the plane of said blade; and means for attaching said frame to a finger; said means comprising a pair of opposed resilient finger-embracing clamp portions extending upwardly from the sides of said frame, a seat on said frame and longitudinally spaced from said clamp portions for receiving the end of the finger, said seat being constituted by an upturned end of said frame, and fixed spaced portions extending upwardly from the opposite end of the frame for engagement with a finger positioned within said finger-embracing portions for maintaining said frame and blade in alinement with said finger.

1,946,732
VENEER AND BACKING BOND AND ANCHOR
Daniel B. Danielson, Milwaukee, Wis.
Application April 11, 1931. Serial No. 529,329
2 Claims. (Cl. 72—103)

1. In a building construction, a pair of spaced walls, an elongated vertical rod formed with right angularly extended end portions, inter-

mediate portions of said rod being formed with offset portions, the right angular end portions of the rod both being secured within one of said inner walls and the intermediate offset portions



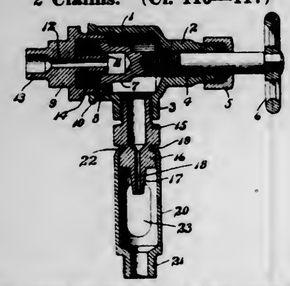
engaging a face of the same wall to space the major portion of the rod from said wall, and a bonding member anchored between adjacent units of the other wall and adjustably attached to said vertical rod.

1,946,733
COMBINATION UNIVERSAL CORNER, REVERSE, AND DIVISION BAR
Archibald H. Davis, Lincoln, Nebr.
Application April 20, 1931. Serial No. 531,519
4 Claims. (Cl. 189—78)



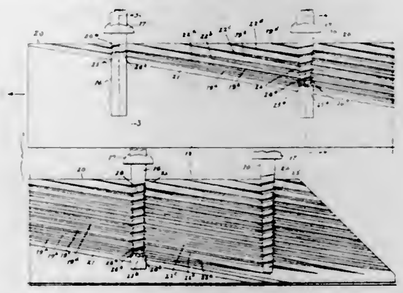
1. A combination or universal corner, reverse, and division window or store front bar provided with continuous, rounded bead-like contact parts extending lengthwise thereof constituting the sole means thereon to bear directly on the panes with which said bar is used, the bar being otherwise out of contact with the panes, said bar having at least its outer strip or section provided with clearance channels extending lengthwise thereof adjacent and disposed inwardly from said rounded bead-like parts and adapted to permit vibration of the panes or desired adjustment thereof to different angles to prevent contact of the panes with the outer section of the bar except at the rounded contact surfaces aforesaid.

1,946,734
LIQUID FLOW REGULATING VALVE
Martin De Lin, Holland, Mich., assignor to Holland Furnace Company, Holland, Mich., a corporation of Michigan
Application February 17, 1930. Serial No. 429,009
2 Claims. (Cl. 116—117)



1. The combination of a drip member and a hollow sleeve member, said drip member having a nozzle extending downwardly therefrom, means to revolubly mount said hollow sleeve member below and in alinement with said nozzle, said sleeve having an unobstructed opening in its side, the upper end of said opening being in substantially the same horizontal plane as the lower end of the said nozzle.

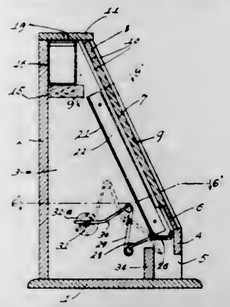
1,946,735
SCREW ROLLING DIE AND METHOD
Lee A. Frayer, Ravenna, Ohio, assignor to Roy H. Smith, Kent, Ohio
Application February 15, 1932. Serial No. 593,010
20 Claims. (Cl. 80—6)



1. The method of forming a screw thread upon a blank which consists in applying a groove and thread forming operation upon one side of said blank and simultaneously therewith applying a dissimilar but complemental groove and thread forming operation upon the opposite side of said blank.

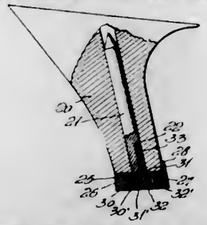
17. A pair of screw-thread forming dies, one of said dies having thread and groove forming grooves and ribs and the other having thread and groove forming grooves and rib unlike the former but complemental thereto.

1,946,736
PUNCH BOARD MACHINE
James P. Frey, Modesto, Calif.
Application October 11, 1932. Serial No. 637,300
2 Claims. (Cl. 273—139)



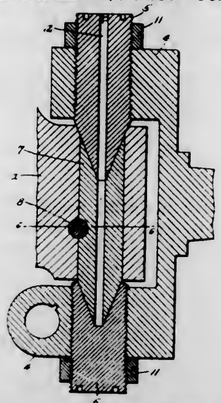
1. In a device of the character described, a pair of spaced side walls removably supporting a punchboard, a ticket chute disposed in spaced parallelism with said punchboard and supported by said side walls, a ticket-supporting shelf hinged to a lower portion of said ticket chute, and a connection between said ticket-supporting shelf and means projecting through one of said side walls, said means adapted for operating said connection and tilting said shelf relative to said chute.

1,946,737
REENFORCED HEEL LIFT AND ATTACHING MEANS THEREFOR
Benjamin Gilowitz, Bronx, N. Y., assignor of one-fourth to Morris Bousel, New York, N. Y.
Application May 4, 1932. Serial No. 609,211
8 Claims. (Cl. 36—34)



1. In a means for attaching a lift to a heel, a metal dowel pin embedded in the heel, said pin having a nail-receiving opening in its lower end and being provided on said end with a downwardly projecting stud, and a reenforcement embedded in the lift and apertured to receive said stud, said reenforcement being also apertured to receive an attaching nail to be driven into said nail-receiving opening.

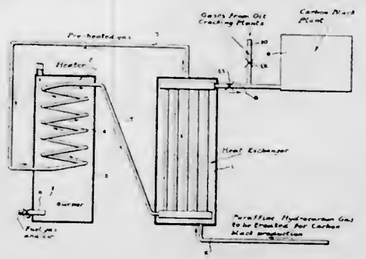
1,946,738
ADJUSTABLE SPINDLE PIN
Stanley Gulan, Sr. and Stanley Peter Gulan, Jr., Kenosha, Wis.
Application April 3, 1933. Serial No. 664,281
3 Claims. (Cl. 280—96.1)



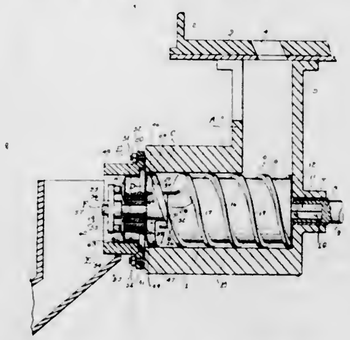
1. In combination with an axle and a spindle carrying member, a pin carried by the axle and having a conical recess in one end and a conical point at its other end, the point projecting from the axle, said spindle carrying member having upper and lower inwardly projecting lugs each provided with a vertical threaded hole, pins threaded in said holes, one pin having a point for engaging the recess in the first pin and the other pin having a socket for receiving the point of the first pin.

1,946,739
PROCESS OF TREATING HYDROCARBONS TO PRODUCE CARBON BLACK
Jesse A. Guyer, Bartlesville, Okla., assignor to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware
Application July 19, 1929. Serial No. 379,505
1 Claim. (Cl. 134—60)

In a process for the production of carbon black, subjecting a normally gaseous paraffin hydrocarbon fluid of the type of butane, propane or mixtures thereof to a controlled partial cracking at a temperature within the range 1250–1750° F. and at substantially atmospheric pressure and for a period of time within the range extending from somewhat less than 0.002 minutes to 0.02 minutes, whereby about 35–50% of olefins are produced, and then subjecting the resultant unsaturates-rich gaseous admixture to a partial combustion treatment to produce carbon black.



1,946,740
APPARATUS FOR MOLDING SUNDRY MATERIALS
Claude C. Hall, Portland, Oreg.
Application December 23, 1932
Serial No. 648,632
6 Claims. (Cl. 107—14)

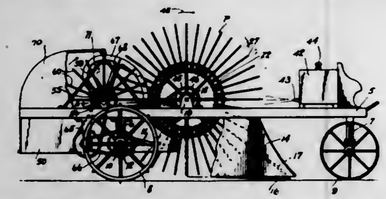


3. A feed worm to be used with a chamber and a die-plate of the class described comprising a body member having a plurality of helically disposed threads around its outer face and thus forming shallow grooves therebetween for the major portion of its length and deep grooves immediately in back of the front face of said member, said threads having the same pitch throughout their length, and means associated with the front face of said member for diminishing the pressure incident to the inner face of the die-plate and front face of said means.

1,946,741
COTTON HARVESTER
Richard Henry Hamme, Oxford, N. C., assignor to Deere & Company, Moline Ill., a corporation of Illinois
Application January 23, 1929. Serial No. 334,430
35 Claims. (Cl. 56—41)

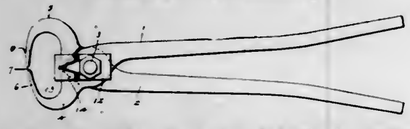
1. In a machine of the class described, a rotary picker mechanism including a plurality of radiat-

ing needles, means for revolving the needles about their axes, doffing mechanism, and means



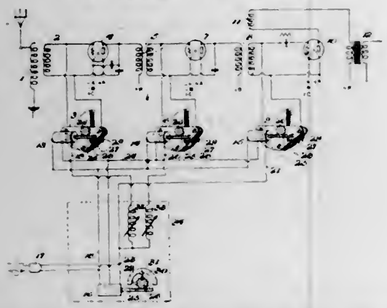
through which said needles pass, for supporting cotton displaced from the needles.

1,946,742
STAPLE PULLING TOOL
Henry W. Hingst, Emerson, Nebr.
Application June 10, 1933. Serial No. 675,304
2 Claims. (Cl. 254—28)



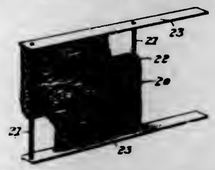
1. A tool of the character described, comprising a pair of pivotally connected handles, a head integral with each of said handles adjacent the pivoted end thereof, each of said heads describing a substantial semi-circle and having a free end located substantially upon the longitudinal center line of the tool, the said free ends of the heads being in opposed relation and constituting jaws, one of said jaws being formed to provide a single point, and the other of said jaws being formed to provide a central point opposing said single point and lateral points extending in the same direction as said central point.

1,946,743
CONTROL APPARATUS
Herman Hollerith, Jr., Riverton, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application December 17, 1927
Serial No. 240,861
20 Claims. (Cl. 250—40)



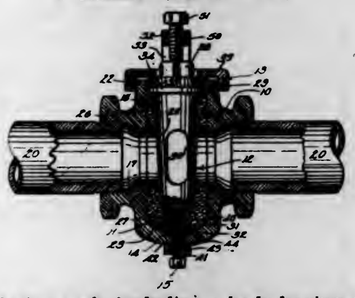
16. In a radio remote control system, the combination of a plurality of solenoids connected in parallel circuits across a source of alternating current, a movable core member for each of said solenoids, and means independent of said solenoids, for varying the circuit impedance of certain of said parallel circuits.

1,946,744
FILTER
Kenneth D. Jones and William R. Thomas, Munhall, Pa.
Application May 19, 1931. Serial No. 538,440
2 Claims. (Cl. 183—49)



1. In a filter, a housing, sheet metal guide channels extending transversely of the housing, and filtering elements having sheet metal frame members adapted to enter said channels, said members being longer than the effective width of said elements.

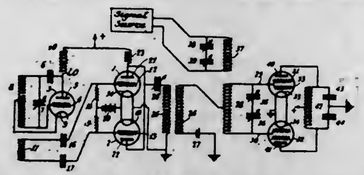
1,946,745
STOPCOCK
Randolph Jennings Johnston, Fresno, Calif.
Application November 18, 1929, Serial No. 407,918
Renewed August 18, 1933
2 Claims. (Cl. 251—113)



1. A stop cock, including a body having a fluid passage and having a transverse cylindrical opening, a body of packing in the opening sealing against the side walls and bottom of the opening, there being a longitudinal opening in the packing, a core in the opening in the packing operable to prevent the flow of fluid through the passage, an extension on the inner end of the core extending into a recess in the bottom of the said transverse opening, and an annular flange on the outer end of the core slidably fitting the transverse opening for compressing the packing.

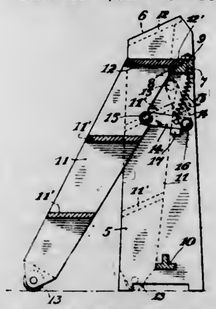
1,946,746
SUPERHETERODYNE RADIORECEIVER
Colin Gordon Kemp and Leslie George Kemp, Southampton, England, assignors to Radio Corporation of America, a corporation of Delaware
Application January 13, 1931, Serial No. 508,440, and in Great Britain January 25, 1930
8 Claims. (Cl. 250—20)

1. A superheterodyne receiver comprising in combination a source of signal energy, a local oscillator comprising an electron discharge tube having a tunable input circuit and an output circuit coupled to its input circuit to provide a feedback path, means for tuning the input circuit of said oscillator tube to a frequency relatively widely different from the frequency of a desired signal, a frequency multiplier circuit connected in the output circuit of said oscillator tube, said multiplier including at least two tubes having their grid circuits connected in said feed-back path, a frequency changer including a pair of tubes arranged in push pull, the common input circuit of said last mentioned tubes including means for tuning it to a desired signal frequency, and means in the common output circuit of said push-pull



connected tubes for resonating it to a desired beat frequency, said signal source and common tunable input circuit of said last mentioned push pull tubes being coupled, and means for coupling the common output circuit of said multiplier tubes and the common input circuit of said frequency changer tubes.

1,946,747
LADDER
Richard Laborda, Brooklyn, N. Y.
Application December 7, 1932. Serial No. 646,037
7 Claims. (Cl. 228—53)



1. A ladder of the kind described comprising spaced uprights and vertically spaced horizontal members rigidly connecting said uprights with each other, a movable ladder section, means directing said movable ladder section to an extended obliquely inclined position relative to said uprights or to a vertical folded position between the uprights, one of said connecting members between the uprights limiting movement of said ladder section to its extended position, and spring means automatically acting upon removal of vertical pressure from said ladder section to move said ladder section in its folded position between the uprights.

1,946,748
REVIVIFYING FILTER CLAY
Norman E. Lemmon and Arthur B. Brown, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application June 13, 1932. Serial No. 616,953
6 Claims. (Cl. 252—2)

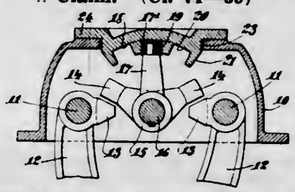
1. The process of regenerating spent filter clay, comprising washing the clay with an organic solvent to remove the adhering oil, sweeping the clay with an inert water-free gas to remove said solvent therefrom and leave the clay in a dry, water-free condition, and subsequently igniting the clay to destroy and remove adhering organic material.

1,946,749
STEERING MECHANISM FOR INDIVIDUALLY SPRUNG WHEELS
Alfred F. Masury, New York, N. Y., assignor to International Motor Company, New York, N. Y., a corporation of Delaware
Application June 21, 1932. Serial No. 618,441
5 Claims. (Cl. 280—91)



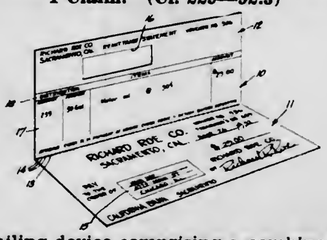
1. A vehicle having, at each side a plurality of individually mounted rear wheels, a plurality of individually mounted forward wheels, means to mount the forward wheels for steering motion, means to steer the forward wheels, and means to mount the rear wheels to trail individually with provision for floating movement thereof in horizontal planes.

1,946,750
GEAR SHIFT CONTROL MECHANISM
Joseph L. Matthews, Highland Park, N. J., assignor to International Motor Company, New York, N. Y., a corporation of Delaware
Application May 26, 1933. Serial No. 673,002
1 Claim. (Cl. 74—39)



A control device for gear shifting mechanism having a plurality of shifter forks and shifter fingers adapted to engage the forks including a selector arm movable with the shifter fingers, a roller on the arm, and a member having tracks formed therein to receive and guide the movement of the roller on the arm, the tracks in the last named member and the fingers and arm being formed to maintain the fingers out of engagement with the respective shifter forks except during the time that an operated fork is in its operative position.

1,946,751
BANK-CHECK POST-CARD FOLDER
Kellogg B. McCarthy, Sacramento, Calif.
Application October 5, 1932. Serial No. 636,266
1 Claim. (Cl. 229—92.3)



A mailing device comprising a combined check form and memorandum form identifying the subject matter for which the check is paid, there being a fold line between the aforesaid two forms whereby the forms may be folded face to face

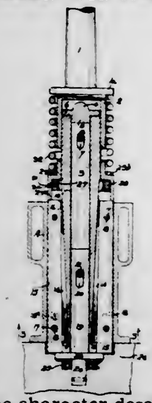
thereby constituting a mailing folder, the memorandum form having an opening therein through which in the folded condition that space on the check form which is designed to receive the name of the payee is exposed, the memorandum form being substantially the size, shape and area of the check form.

1,946,752
WIRE CONNECTING DEVICE
Herbert E. Miller, Allentown, Pa.
Application November 4, 1932. Serial No. 641,298
5 Claims. (Cl. 24—125)



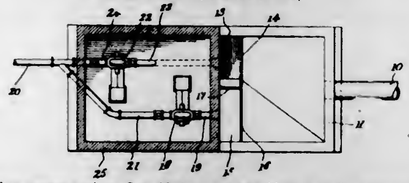
1. A wire clamp comprising a relatively wide flexible shank, a head carried by one end of said shank and provided with a depending portion spaced from and parallel to a portion of said shank to form a wire receiving space, a threaded stem carried by the other end of said shank, said head being bifurcated to form a cut out portion to receive said stem when said shank is bent around the wires in said space, and a nut threaded on said stem and movable thereon in engagement with said head to contract said shank around the wires, said depending portion having an upwardly and outwardly inclined lower face engageable with the last named end of said shank when the latter is bent around the wires.

1,946,753
TOOL
Walter E. Moberley, Detroit, Mich.
Application November 26, 1930
Serial No. 498,411
4 Claims. (Cl. 77—58)



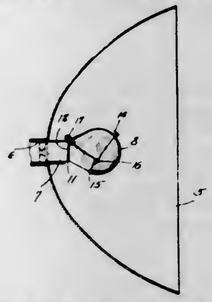
1. A tool of the character described comprising a body adapted to be moved axially and having substantially longitudinal slots in its periphery, blades seating in said slots and projecting outwardly therefrom, said blades having cutting edges formed along their outer margins, the bases of both the slots and the blades being longitudinally inclined so that as the blades are moved longitudinally in the slots the radial distance of their cutting edges from the body axis varies, a pilot movable longitudinally in one extremity of said body, a flange on said pilot against which one end of each blade rests, a sliding collar around said body one extremity of which rests against the end of each blade remote from said flange, spring means tending to move said collar and blades and through the latter to move said flange away from said body, means limiting the distance the flange may be moved from said body, and means for preventing longitudinal movement of said flange with said body after the latter has been moved axially a predetermined distance in one direction so that the adjacent extremity of the body moves nearer to said flange thereby moving said blades longitudinally and outwardly in their slots to bore work to a predetermined size, said spring means returning said blades longitudinally when said body commences to travel axially in the opposite direction, and means for maintaining said blades in seated position in their slots at all times so that as said blades are returned to their initial position their cutting surfaces are moved away from the bore of the work.

1,946,754
APPARATUS FOR THE PREPARATION OF SEWAGE FOR PUMPING
Walter Chase Munroe, Arnold, and Robert Brooks Morse, Hyattsville, Md.
Application April 27, 1931. Serial No. 533,288
1 Claim. (Cl. 210—2)



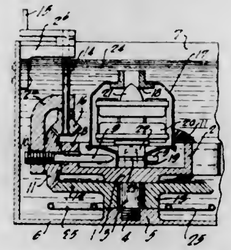
An apparatus for the preparation and economical pumping of sewage, a receiving basin in communication at one side with a sewer, water works and trash pumps connected at separate points with the other side of said receiving basin at a low point therein, a relatively fine screen in the receiving basin extending about the connection to the water works pump for separating from the sewage and maintaining within the screen enclosure a free flowing free body of liquid available at all times to the water works pump, and a coarser screen in the basin extending about the connection therewith of the trash pump for admitting sludge and larger bodies in suspension to the trash pump but withholding very large foreign bodies.

1,946,755
DIMMER DOUBLE REFLECTOR
Ebenezer Myers, Concord, N. C.
Application June 17, 1932. Serial No. 617,854
1 Claim. (Cl. 240—48.6)



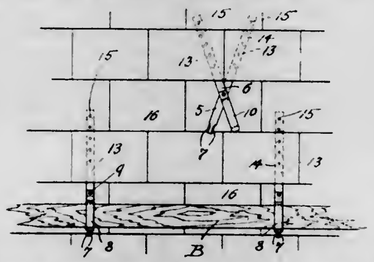
A headlight bulb shield comprising a curved body portion curved to fit over the outer end of a head light bulb, an outstanding ear formed on the body portion at the upper edge thereof, apertured ears extending downwardly and laterally from the lower edge of the body portion, the last mentioned ears being disposed below a line drawn horizontally through the center of the body portion, a wire looped around one end of the bulb, the opposite end of the wire being formed into a hook and extended through the apertured ear at the upper edge of the body portion, a wire having a coiled portion formed intermediate the ends thereof, the ends of the last mentioned wire being hooked into the last mentioned apertured ears, the coiled portion exerting a pull on the lower side of the body portion, securing the body portion in position on the headlight bulb, and drawing the lower portion of the shield inwardly.

1,946,756
METHOD OF AND MEANS FOR CALIBRATING VALVES
Clifford R. Oberg, Brockton, Mass., assignor to Barnes & Jones, Incorporated, Jamaica Plain, Mass., a corporation of Massachusetts
Application June 2, 1932. Serial No. 614,891
26 Claims. (Cl. 29—84)



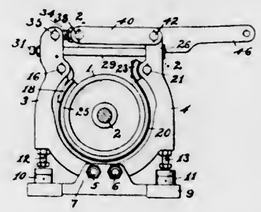
1. That method of making calibrated automatic trap valves, which comprises preparing a valve seat, a valve feather, and an actuator, assembling said parts in axial alignment and in proper relative order but so as to allow two at least of said parts freedom of relative motion in an axial direction, calibrating the assembled valve by subjecting the parts to predetermined operating conditions, and, while maintaining said conditions, fixedly uniting those parts which initially were allowed freedom of relative motion.

1,946,757
SCAFFOLD SUPPORT OR SNOWHOOK
Hallett C. Parker, West De Pere, Wis.
Application April 28, 1931. Serial No. 533,550
2 Claims. (Cl. 304—20)



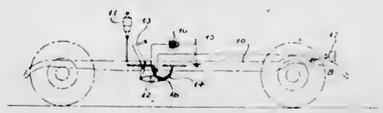
1. An article of the kind described, comprising a pair of flat bars, a loop at one end of one bar, said bars having reverse angularly disposed notches, each opening through one longer edge of the bar, and a pivot joining the bars together for relative swinging movements with respect to each other.

1,946,758
BRAKE
Stanley Powell, East Cleveland, Ohio
Application August 19, 1931. Serial No. 558,012
7 Claims. (Cl. 188—166)



1. In a brake, the combination with a brake wheel, of a flexible band adapted to engage the brake wheel, a pair of lever-arms, the band having one end connected to one of said lever-arms, a pull-member, the pull-member being movably supported by the other lever-arm, said band having its free end connected to said pull-member, means tending to draw together said lever-arms for moving said band towards said brake wheel and means for actuating said pull-member from the action of said lever-arms for causing a longitudinal movement of said band.

1,946,759
SIGNAL SYSTEM FOR MOTOR VEHICLES
Kenneth D. Preston, Hornell, N. Y., and Hamilton Ward Preston, Jacksonville, Fla., assignors, by direct and mesne assignments, of two-thirds to said Kenneth D. Preston and one-third to said Hamilton Ward Preston
Application May 18, 1929. Serial No. 364,266
8 Claims. (Cl. 177—352)

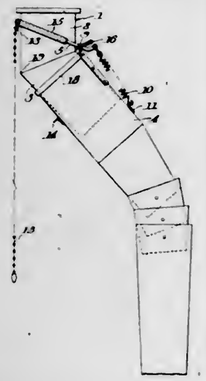


8. In an automobile, the combination of a hydraulic brake system dependent for its functioning upon a suitable liquid maintained therein, said system including brakes and a brake pedal operable to apply said brakes by hydraulic pressure, a signal, and means for controlling the operating of said signal which said means comprises a diaphragm having a liquid contact with the hydraulic brake system and positionable for causing the signal to be given upon the applying of the brake and for causing a discontinuance of the signal upon the release of the brakes.

1,946,760
EXTENSION SPOUT OR CHUTE
Wallace R. Rhine, Amenia, N. Dak.
Application August 26, 1933. Serial No. 686,977
17 Claims. (Cl. 193—2)

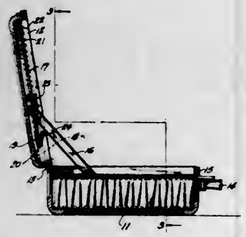
1. An extension conduit for attachment to a tubular outlet, said conduit having clamping means pivotally associated therewith adjacent its

attaching end and adapted to embrace said tubular outlet, and means normally urging said



clamping means to a position substantially parallel to the conduit.

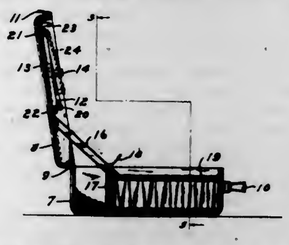
1,946,761
LUGGAGE CARRIER CASE
Julius Ritter, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin
Application October 15, 1930. Serial No. 488,715
6 Claims. (Cl. 190—41)



1. In a carrier case, a base section, a cover section movable relatively to said base section, a garment carrier formed of a rigid sheet of substantially the same size and shape as that of the cover section interior and having upper and lower edges the former of which is movable with respect to the latter entirely into and out of said cover section, and socket members located entirely within said cover section for confining the lower carrier edge within said cover section and for limiting the swinging movement of said carrier, said members being formed to permit free vertical removal of said carrier from said cover section when said carrier is swung away from said section.

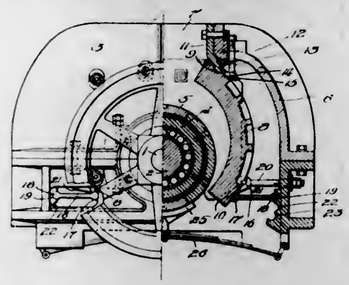
1,946,762
LUGGAGE CARRIER CASE
Julius Ritter, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin
Application October 20, 1930. Serial No. 489,768
6 Claims. (Cl. 190—41)

1. In combination, a main section having a removable partition therein, a cover section, and a garment carrier comprising an upper garment receiving portion and a lower bracing and garment confining portion movable away from said cover section into engagement with the upper



end of said partition to stabilize said cover section when in open position.

1,946,763
ROCK-CRUSHING MACHINE
William H. Sallwasser, Wheeling, W. Va.
Application June 3, 1931. Serial No. 541,796
6 Claims. (Cl. 83—53)



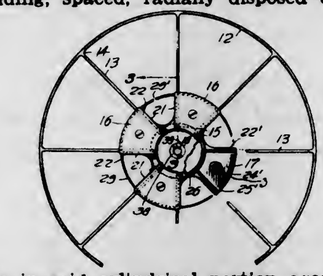
1. In a crushing machine, a rotatable eccentric member, a cylindrical crushing head surrounding said member and having a bearing thereon to permit relative rotary movements, a stationary breaker plate beside the head and having a concave face directed to the latter, the parts being so proportioned that there is a space between the head and the breaker plate narrowing gradually from one end to the other, and brake means engaging the head to prevent free rotary movement of said head.

4. In a crushing machine, a movable crushing head, a stationary frame member, a breaker plate between said head and said frame member, similar bearing seats at opposite ends of said breaker plate on the side toward the said frame member, elements extending from said frame member and fitting into either of said seats, said breaker plate being reversible so that it may be turned end for end as wear occurs said elements being mounted in the frame member whereby they fit into the seats in either position of the plate, and means extending between said plate and said frame member to draw said seats into intimate engagement with the aforesaid elements.

1,946,764
FILM REEL
Eugene J. Schaub, Corona, N. Y.
Application January 20, 1930. Serial No. 421,913
11 Claims. (Cl. 242—70)

1. A film reel including spaced wire spoked flanges, a hub assembly therefor, means to hold the spoked portions of said flanges against displacement on said hub portion, a cylindrical

portion between said flanges, said hub portion including, spaced, radially disposed extensions

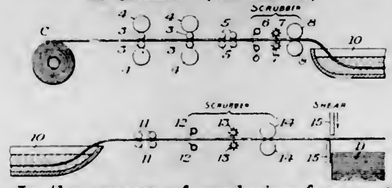


made in said cylindrical portion accessible for starting the winding of the film.

1,946,765
SHAVING SOAP
Victor Scheffer, Budapest, Hungary
No Drawing. Application January 26, 1931, Serial No. 511,433, and in Hungary January 22, 1930
1 Claim. (Cl. 87—16)

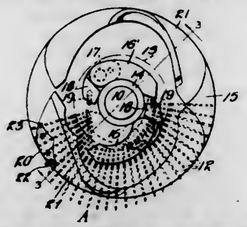
A shaving composition consisting of ammonium stearate and sodium soap, the percentage of sodium soap exceeding the percentage of ammonium stearate but not exceeding the quadruple and the composition being substantially anhydrous.

1,946,766
FINISHING FERROUS SHEET MATERIAL
Albert H. Shonkwiler and Donald M. Shanafelt, Steubenville, Ohio
Application April 8, 1933. Serial No. 665,186
11 Claims. (Cl. 148—4)



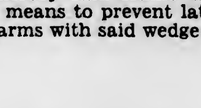
1. In the process of producing ferrous sheet material by first hot rolling, then cold rolling, and then finishing, the finishing steps consisting in etching the cold rolled material by treatment with a solution containing the nitric acid radical in active form, and then annealing the etched material.

1,946,767
KNITTING MACHINE
William L. Smith, Jr., Nashville, Tenn., assignor to May Hosiery Mills, Nashville, Tenn., a corporation
Application May 18, 1928. Serial No. 278,843
1 Claim. (Cl. 66—19)



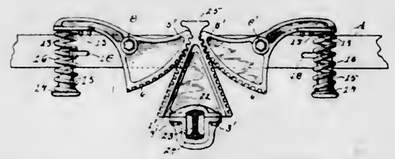
In a knitting machine, a needle dial having a set of radially movable latch needles therein, a dial plate, guard and retracting cams secured in fixed relation to the dial plate, one on the knitting side of and one on the casting off side of the dial, a latch controlling cam mounted on and secured to the guard and retracting cam on the knitting side of the dial and positioned outwardly from the inner edge of said guard and retracting cam, said latch controlling cam having oppositely directed points positioned to engage the latches of empty needles to hold them open to prevent breaking them as the needles are being moved inward to stitch forming position, substantially as set forth.

1,946,768
CLOSURE
Lyle K. Snell, Detroit, Mich., assignor, by mesne assignments, to Eaton Detroit Metal Company, Cleveland, Ohio, a corporation of Ohio
Application August 26, 1930. Serial No. 477,872
8 Claims. (Cl. 220—40)



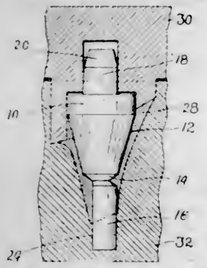
1. In closure devices the combination of a cast metal body member having a depending central boss and an annular shoulder portion, and a sheet metal body member having an annular flange in engagement with said annular shoulder portion and a central recess into which said boss extends, locking means associated with said sheet metal body member, a lug on said annular shoulder portion extending into a recess of said flange for preventing relative rotation between said body members, and means securing said sheet metal body member to said boss.

1,946,769
SPRING SUSPENSION FOR VEHICLES
Gay A. Stanton, Battle Creek, Mich.
Application March 15, 1932. Serial No. 598,947
9 Claims. (Cl. 267—20)



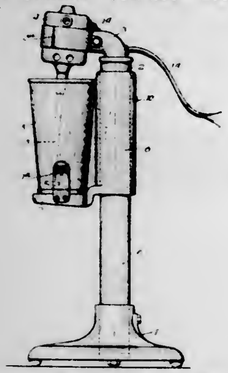
1. In a spring suspension for vehicles, the combination with a vehicle frame, its axle and a wedge-shaped member rigidly attached intermediate its base on the upper side of said axle, of ball ended studs extending from said frame one to the rear and one forward of said wedge-shaped member, opposing rocker arms having socket cups between their extremities suspended from said ball ended studs, said rocker arms having cam shaped ends adapted to cooperate with the inclined surfaces of said wedge-shaped member, and springs suspended from said frame near the outer ends of said arms and bearing upon the under surfaces of the outer ends of said arms whereby said frame will be free to oscillate, and means to prevent lateral displacement of said arms with said wedge-shaped member.

1,946,770
METHOD OF MAKING CORED HEELS
Herman L. Strongson, New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application March 14, 1929. Serial No. 347,116
5 Claims. (Cl. 18—59)



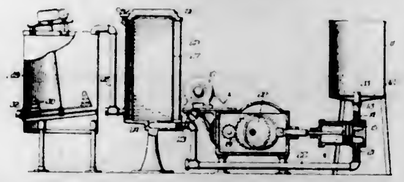
1. The method of making a cored heel which consists in providing a core longer than the height of the desired heel, holding the core by its ends, molding a heel shaped covering about the intermediate portion of the core while the core is thus held, and cutting off the ends of the core flush with the tread and attaching faces of the heel.

1,946,771
AUTOMATICALLY TIMED DRINK MIXER
Herman L. Strongson, New York, N. Y., assignor to L. Oser, New York, N. Y.
Application November 10, 1930
Serial No. 494,595
3 Claims. (Cl. 259—108)



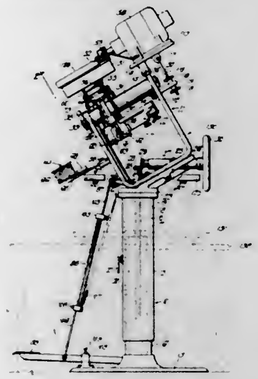
1. In a drink mixer, a supporting column, a cup support moving vertically upon said column, a depending motor-driven agitator mounted on said column and brought into and out of assembly with a cup by said movement of the cup support, a circuit controller for the motor of said agitator comprising an elongated terminal member and a coacting contact member, one of said controller members being mounted on the column and the other traveling with the cup support, and a retarder comprising an elongated member and a coacting member, one of which is mounted on the column and the other of which travels with the cup support; the elongated members of the circuit controller and retarder being terminated at points which cause them to separate from their coacting members before the cup support reaches its lower limit; and the end point of the elongated member of the retarder being located to cause separation of its coacting member prior to the separation of the coacting members of the circuit controller.

1,946,772
EGG FILTERING APPARATUS
Melville J. True, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Application July 7, 1933. Serial No. 679,307
7 Claims. (Cl. 210—154)



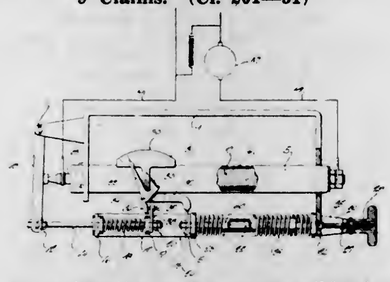
1. Egg filtering apparatus comprising in tandem intercommunicating arrangement a reception vessel, a reciprocatory pump, a cylinder of large capacity having therein a large-area filter cylinder of foraminous metal with sharp edged apertures, a stirring vessel, and a discharge outlet.

1,946,773
STAPLING MACHINE
Harrison B. Walter, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application July 31, 1929, Serial No. 382,337
Renewed July 28, 1933
6 Claims. (Cl. 1—11)



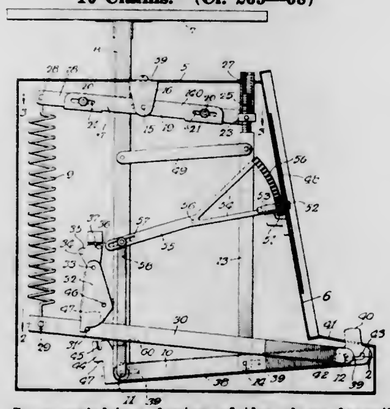
1. In a stapling machine, the combination of a frame, a staple driving mechanism thereon, a movable clenching block supported on said frame and adapted to be moved from operative to inoperative position relatively to said staple driving mechanism, a linkage system adapted to be controlled by an operator for moving said clenching block, control means for said staple driving mechanism, means operably connected to said linkage system for actuating said control means just prior to the movement of the clenching block to its final operative position, said linkage system including means for temporarily locking the clenching block in its operative position during the operation of the stable driving mechanism.

1,946,774
COMPRESSIBLE ELECTRICAL RESISTOR
Gustav O. Wilms, Milwaukee, Wis., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 21, 1931. Serial No. 517,533
9 Claims. (Cl. 201—51)



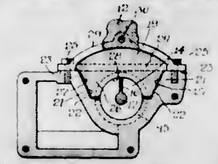
9. In combination with a compressible electrical resistor having a depressible plunger, a compression head engaging the plunger, means to apply force to the compression head to compress the resistor, comprising a rod connected to the compression head, a member having a part freely slidably connected with said rod, a spring confined between an abutment on said member and an abutment on the rod, actuating means connected with said member to draw the same away from the rod and apply force to the rod through the spring, said spring yielding during the application of such force to permit relative motion between the rod and said member which relative motion is directly proportional to the pressure on the resistor, and means to indicate the pressure on the resistor comprising a scale part and a pointer part movable relative to each other, means connecting one of said parts to said member, and means connecting the other part with the rod.

1,946,775
WEIGHING SCALE
Joseph R. Zwickl, Chicago, Ill.
Application December 11, 1931
Serial No. 580,257
10 Claims. (Cl. 265—68)



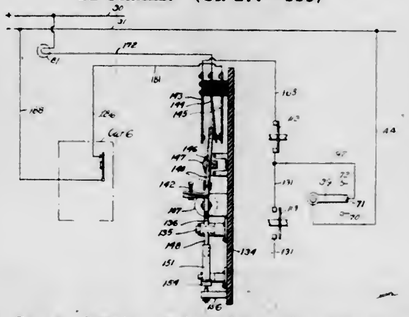
1. In a weighing device of the class described, the combination of a platform, a coil spring for yieldably supporting said platform, a post depending from said platform, lever means connecting said post to one end of said spring for applying stretching force to one end of said spring as an incident to downward movement of the platform; a lever connected to the other end of said spring, and selectively operable means for connecting said last mentioned lever to said post.

1,946,776
MECHANICAL STOKER
Warren Dean Burton, Goshen, Ind., assignor to Combustioneer, Inc., Goshen, Ind., a corporation of Illinois
Application August 15, 1931. Serial No. 557,301
8 Claims. (Cl. 198—64)



1. In a stoker, in combination, a fuel hopper having an upright wall at one end, said wall having an outlet aperture, a horizontal discharge duct having a passage with its inlet end in communication through said aperture with said hopper, a rotary conveyor extending from said hopper through said aperture into said passage, one portion of said aperture being enlarged to define a space along said convevor accessible from the exterior of said duct, a hollow bracket on the inlet end of said duct at a point adjacent said space, the interior of said bracket defining a space externally of the normal confines of said duct, said last mentioned space opening outwardly, opening inwardly into said inlet end of said passage and opening to said first mentioned space to define an opening therewith, closure means removably secured in position on said bracket for closing said spaces against access from the exterior of said hopper and duct, and a projection on the interior of said closure means substantially filling said last mentioned space.

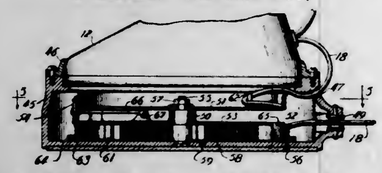
1,946,777
ELEVATOR CONTROL SYSTEM
Emil P. Butusov, Hollywood, Ill., assignor of one-half to Daniel Lewy, Chicago, Ill.
Application December 22, 1930
Serial No. 503,936
11 Claims. (Cl. 177—336)



1. In an elevator system for a plurality of cars and floors a car selector for each floor, an open signal circuit for each car, a contact for each of said circuits in each selector, a normally closed floor switch for each floor for inter-connecting said contacts from one floor to the next with the contacts for each car in a separate series, a signal switch operated by each car for energizing the related selector contacts at
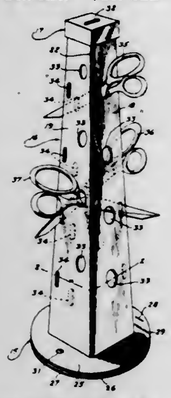
the floor adjacent the car, and a floor switch controller operated by each car to open said floor switches corresponding to the floors which the cars have passed, and manually operable means for each floor for operating the corresponding selector to successively wipe said contacts so that when connection is made with an energized contact the signal circuit related therewith will be completed to perform its function.

1,946,778
REEL FOR TELEPHONE CORDS
Allan J. Cline, Chicago, Ill.
Application April 14, 1930. Serial No. 444,009
2 Claims. (Cl. 242—107)



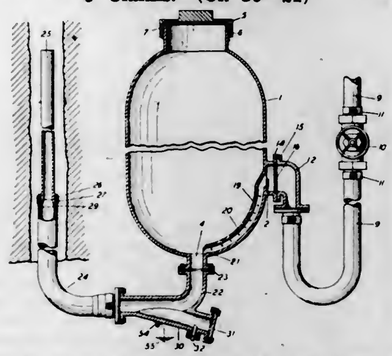
2. A take-up device for a telephone cord or the like comprising, a casing, a reel mounted in said casing, said reel including a fixed drum and a rotatable drum positioned in axial alignment with said fixed drum, a guide member movable circumferentially in said casing for simultaneously winding convolutions of cord onto each of said drums during the take-up operation, and a pivotally mounted support for said guide member.

1,946,779
MERCHANDISE DISPLAY STAND
John J. Conway, Bridgeport, Conn., assignor to The Acme Shear Company, Bridgeport, Conn., a corporation of Connecticut
Application March 8, 1933. Serial No. 660,017
6 Claims. (Cl. 211—13)



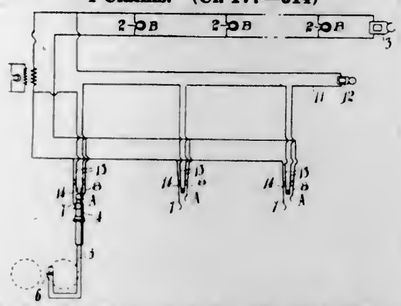
1. In a merchandise display stand, a hollow upright body including side walls, said side walls having openings therein for the insertion of portions of articles to be displayed whereby said articles may be supported and displayed by said upright body, the walls of said body having extensions at their lower ends for supporting the body in vertical position, a base including relatively movable top and bottom portions, said top portion of the base having an opening therethrough through which said body may be passed to dispose said extensions at the under side of the top portion of the base, and means for securing the top and bottom portions of the base together to secure said extensions between them.

1,946,780
POWDER LOADING DEVICE
Joseph C. Costello, San Francisco, Calif.
Application July 16, 1932. Serial No. 622,996
9 Claims. (Cl. 86—21)



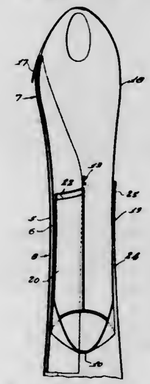
1. Means for the loading of bore holes with explosives including a detonating cartridge comprising a compressed air injector, a powder receptacle, a source of compressed air, a blow pipe for conveying said explosives from said receptacle to a bore hole by the action of said air, and means associated with said receptacle for injecting said cartridge into said blow pipe.

1,946,781
ALARM SYSTEM FOR BANKS AND THE LIKE
William H. Davidson, Toronto, Ontario, Canada, assignor of one-half to Frederick W. Hudson, Toronto, Canada
Application January 8, 1932. Serial No. 585,538
4 Claims. (Cl. 177—314)



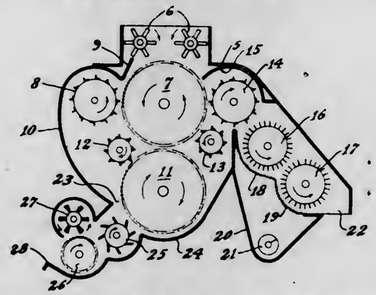
1. A hold-up alarm system for control by persons in the building to be protected comprising an alarm circuit including an alarm device; a warning circuit including a warning device; a control unit for conditioning the alarm circuit for operation including two conductors, a switch carried and operable by a person aforesaid to make and break a connection between said conductors, and a plug controllable by the person carrying the switch and having separate contact parts connected respectively with the two conductors; and a jack into which the plug is insertable, the said jack having separable contacts included in the warning circuit and normally tending to engage, and contacts included in the alarm circuit for engagement by the contact parts of the plug, the contacts of the jack being arranged so that the engagement of the contacts in the alarm circuit by the contact parts of the plug separates the contacts included in the warning circuit.

1,946,782
COMBINATION GARMENT
Ruth Hill Davis, Chicago, Ill.
Application December 27, 1932
Serial No. 648,972
4 Claims. (Cl. 2—71)



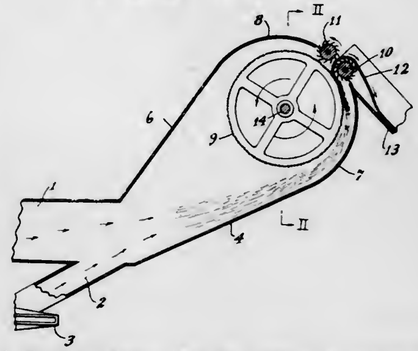
1. In a unitary garment, an integral waist and skirt open at the front, one front portion overlying the other when the garment is worn, said waist and skirt being separated adjacent the rear waistline portion of the garment, and an undergarment attached to said waist adjacent the separation between said waist and skirt.

1,946,783
HULL EXTRACTOR FOR COTTON
Frank E. Deems, Birmingham, Ala., assignor to Continental Gin Company, a corporation of Delaware
Application November 3, 1930. Serial No. 493,101
13 Claims. (Cl. 19—37)



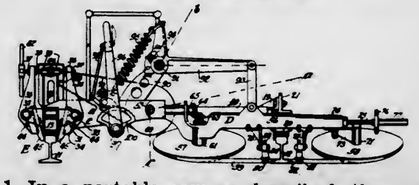
1. In a hull extractor, a pair of saw cylinders, means including a rotary element to cause the cotton to be treated by both cylinders in divided streams, and to combine on one of said cylinders before being finally doffed, means to strip one of the divided streams of cotton before they are combined and means to strip hulls from the combined streams and discharge same so as not to intersect the path of the cotton in its approach to said cylinders.

1,946,784
COTTON CONDENSER
Thomas Elliott, Birmingham, Ala., assignor to Continental Gin Company, a corporation of Delaware
Application May 9, 1930. Serial No. 451,127
4 Claims. (Cl. 19—156)



1. In a condenser for lint cotton, a condenser casing having an inlet for air borne cotton, an air outlet and top and bottom upwardly inclined walls that flare apart from said inlet and merge into a curved end wall, a foraminous drum rotatably mounted above the level of the inlet and in spaced relation to said curved wall, with its downgoing side toward said inlet, and rolls to discharge the lint in a bat.

1,946,785
PORTABLE METAL CUTTING SAW
Edward A. Everett, New York, N. Y.
Application July 1, 1927. Serial No. 202,945
8 Claims. (Cl. 29—68)

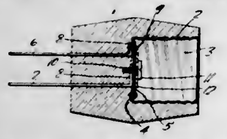


1. In a portable saw as described, the combination of a main frame supported on rollers to roll on the rails of a railroad track, a saw frame pivotally connected to said main frame substantially midway between the track rails, to extend over one of said track rails and to lift in a vertical direction, a pair of band saw wheels pivotally connected to said saw frame and so located that the outer edge of the inner wheel does not extend beyond the vertical plane of the pivot of said frame and a band saw carried by said wheels and arranged to saw one rail by the movement of said saw frame on its pivot.

1,946,786
ELECTRIC LAMP SOCKET
Marion L. Featherston, Anderson, Ind.
Application May 18, 1931. Serial No. 538,192
1 Claim. (Cl. 173—344)

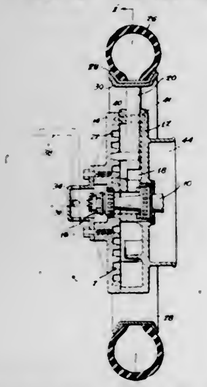
In a device of the kind described, an elongated body portion tapered circumferentially from a medial point toward each end and having a recess in one end, a threaded metallic socket seated in the recess and having an inwardly turned annular flange at its inner end, a circular disk of insulation placed in the socket over this flange, rivets passed through the margins of the disk and the flange, a prong ex-

tended longitudinally through the body portion and having an angularly bent attaching arm at its inner end resting against the flange of the socket, one of the said rivets passing also through the said attaching arm of the prong, another prong extended longitudinally through



the body portion in parallelism with the first mentioned prong and having an angularly bent attaching arm at its inner end disposed inwardly of the socket flange and against the insulation disk, and a contact screw threaded centrally through the said disk into the attaching arm of the prong.

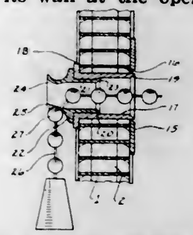
1,946,787
VEHICLE WHEEL
Marcus W. Feinberg, Chelsea, and Lester S. Feinberg, Brighton, Mass.
Application February 11, 1933. Serial No. 656,300
7 Claims. (Cl. 301—12)



2. In a vehicle wheel and an axle disposed centrally therethrough, an inner disk-like hub member having integral therewith a peripheral flange portion projecting in an outboard direction therefrom, an outer hub member, means on the axle and including a nut acting against the outer member for holding the members in face to face relation, a plurality of radially-extending and spoke-forming plungers carried by the inner member and respectively slidable in radial channels extending through and radially inward of said flange portion, means providing a plurality of inclined surfaces connected to the outer hub member and respectively cooperating with the plungers whereby to move the plungers radially outward when the outer member is rotated in one direction relative to the inner member, and means providing a releasable lock carried by one member and engaging the other member for preventing relative rotation of said members.

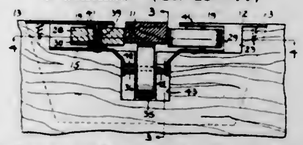
1,946,788
DAMPER CONTROL FOR WALL REGISTERS OR GRILLES
John A. Germonprez, Detroit, Mich., assignor to Uni-Flo Grille Corporation, Detroit, Mich., a corporation of Michigan
Application July 25, 1932. Serial No. 624,381
6 Claims. (Cl. 98—106)

1. In a grille having a damper associated therewith yieldably urged to open position, a pull member therefor flexible in character and having spaced portions thereof of greater size than intervening portions, a supporting element for said member provided in the grille including a rotatable tubular element, said element having a slot in its wall at the open end thereof



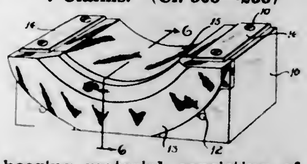
through which the pull member extends of a width to receive a portion thereof of smaller size and to prevent movement therethrough of a portion of the larger size providing a means for adjusting the extent of opening of the damper.

1,946,789
DRAWER GUIDE
Willy Carl Giesemann, Cleveland, Ohio
Application August 4, 1933. Serial No. 683,675
2 Claims. (Cl. 45—77)



1. A unitary guide member for the drawer of a piece of furniture, comprising a frame structure embodying a metal blank having its central portion cut out to form a T-shaped opening and its upper part bent to form a substantially rectangular loop including spaced supporting arms arranged in angularly related planes, and rollers, rotatably supported by said supporting arms.

1,946,790
COMPOSITE BEARING
Paul C. Haas, Mendon, Mich.
Application January 18, 1932. Serial No. 587,255
7 Claims. (Cl. 308—238)

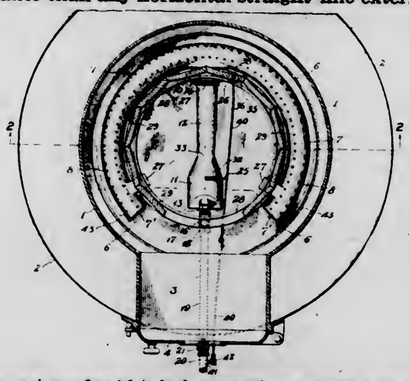


1. A bearing material consisting of a woven webbing impregnated with a fusible resin of a type that is incapable of being converted into an infusible state.

1,946,791
GAS BURNER
William G. Hagan, Shaker Heights, Ohio, assignor to The East Ohio Gas Company, Cleveland, Ohio, a corporation of Ohio
Application July 29, 1932. Serial No. 625,781
9 Claims. (Cl. 158—104)

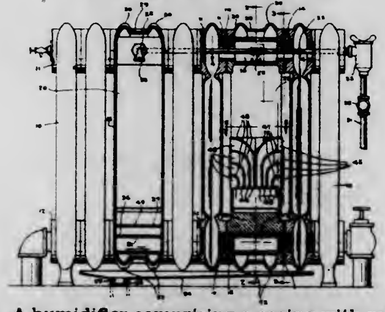
1. A gas burner adapted to be mounted removably in a furnace having a fire pot and a door opening whose largest dimension across the opening is smaller than any horizontal straight-line interior dimension of the part of the fire pot near

the door opening, said burner comprising a unitary tubular member of an incomplete substantially annular formation and of such size that the largest dimension across the door opening is smaller than any horizontal straight-line exterior



dimension of said tubular member, and the break which causes the substantially annular formation of said tubular member to be incomplete being sufficient in extent to permit insertion of said tubular member through the door opening into the fire pot.

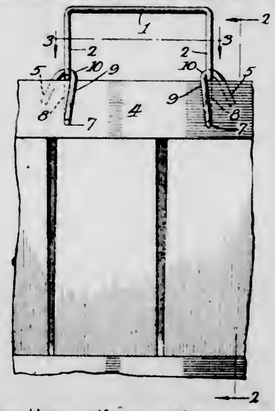
1,946,792
HUMIDIFIER
Daniel Handelan, Minneapolis, Minn.
Application December 13, 1930
Serial No. 502,062
3 Claims. (Cl. 261—116)



1. A humidifier comprising a casing with means for inserting the same into a steam or hot water radiator in communication with the upper and lower conveyor lines for the heating medium, a water pipe extending through said conveyor line and connecting with a nozzle within the chamber of the casing, and said nozzle spraying water through said chamber, and means for admitting air into said chamber adjacent said nozzle and for permitting it to escape from said chamber at another point whereby the air is caused to be drawn into the chamber and expelled therefrom in a moistened condition.

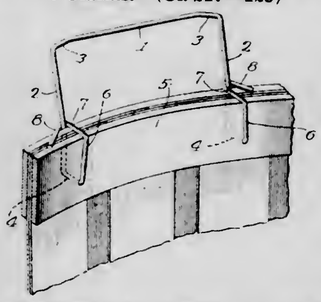
1,946,793
BASKET HANDLE
Leslie M. Hile, Benton Harbor, Mich.
Application February 13, 1931. Serial No. 515,533
6 Claims. (Cl. 217—125)

1. A wire basket handle formed by inserting the wire through the basket rim and bending the wire to attach the handle in place, comprising upright side portions for the handle disposed substantially or practically in the plane of the outer side of the basket rim, a top portion extending horizontally between the upper ends of the two side portions, horizontal portions extending inwardly from the lower ends of said side portions across the upper edge of the basket rim, upright portions extending downwardly from said horizontal portions inside the basket rim, horizontal portions extending outwardly from said inside upright portions through the basket rim, outer portions extending upwardly from said lower



horizontal portions, other portions extending inwardly across the basket rim from the upper ends of said outer upright portions, and inside portions extending downwardly from the inner ends of said last-mentioned inwardly extending portions, said handle thereby having two portions of wire bent across the upper edge of the basket rim at the lower end of each of said upright side portions, said upright inside portions that bear against the inner side of the basket rim being disposed between said down-turned inside end portions of the wire.

1,946,794
WIRE HANDLE FOR BASKETS
Leslie M. Hile, Benton Harbor, Mich.
Application November 7, 1931. Serial No. 573,548
7 Claims. (Cl. 217—125)



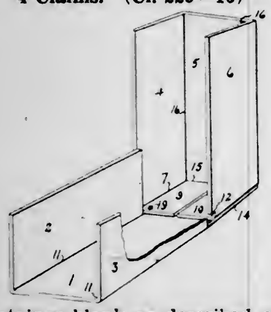
1. A wire handle for baskets or containers, of substantially bail-shaped form, having side portions attached to the rim of the container, and having a top portion or grip formed with a relatively long straight middle portion, and with relatively short portions interposed between said middle portion and the upper ends of said side portions, said short portions being oblique to the middle portion when viewed from above, and

also when viewed horizontally, whereby said middle portion is offset outwardly, and is thereby outside the plane of said side portions.

1,946,795
OPEN ENDED CONTAINER

Frank D. Jonas, East Williston, N. Y., assignor to Oxford Filing Supply Co., Brooklyn, N. Y., a partnership composed of Richard A. Jonas, Richard A. Jonas, Jr., Robert P. Jonas, Frank D. Jonas, and Edward F. Jonas

Application February 23, 1932. Serial No. 594,541
4 Claims. (Cl. 229—16)

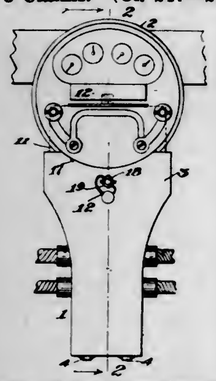


1. A container blank as described comprising a single piece of foldable stock having a definite width at one end, an intermediate portion slotted to define folds, which portion has an overall width equal to the width of the first mentioned portion plus twice the thickness of the stock, and a third portion having a width equal to the width of said first portion plus four times the thickness of the stock, the blank when folded forming a container having double thickness side walls which evenly distribute vertical compression loads.

1,946,796
METER WIRE COVER

Orla E. Juvinall, Danville, Ill., assignor of one-half to George R. Martin, Danville, Ill.

Application February 20, 1932. Serial No. 594,334
3 Claims. (Cl. 247—2)

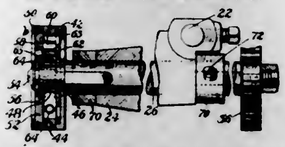


1. In a device of the class described, the combination with a meter provided with an outwardly extending bolt, of a casing having its upper end partly around the bottom of said meter, said casing provided with a top cover hingedly connected to its back and extending up behind said meter, said casing provided with a front cover, said front cover provided near its upper end with an opening registering with said bolt, and said bolt normally extending through said opening and adapted to receive fastening means.

1,946,797
CEMENTING MACHINE

Fay D. Kinney, Southbridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application December 13, 1930
Serial No. 502,173
15 Claims. (Cl. 91—67.8)

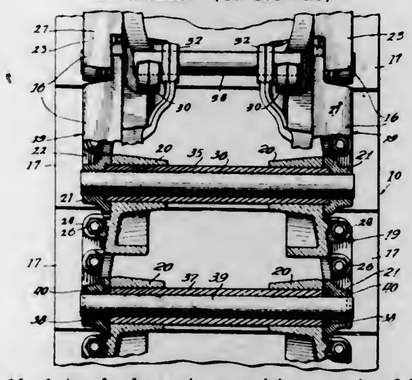


1. In a cementing machine, a rotatable support, a work-engaging roll carried by the support and having relatively movable sections, yieldable means arranged to permit movement between the sections, and a member removably secured to said support to which said yieldable means and one of the sections are movably attached, whereby said member, said yieldable means and a movable section of the roll are separable from the support and the associated section as a unit.

1,946,798
TRACK FOR TRACK LAYING WHEELS

Joseph Kuchar, Chicago, Ill., assignor to Forged-Trak Co., Chicago, Ill., a corporation of Delaware

Application November 16, 1931
Serial No. 575,177
14 Claims. (Cl. 305—10)



11. A track element comprising a pair of link elements having offset hubs at each end, a shoe plate to which the link elements are removably secured, arms carried by said link elements adapted to interlock with the arms of adjacent track elements, a pivoting member rigidly connecting said link elements together, and bridging means connecting a pair of opposite arms together.

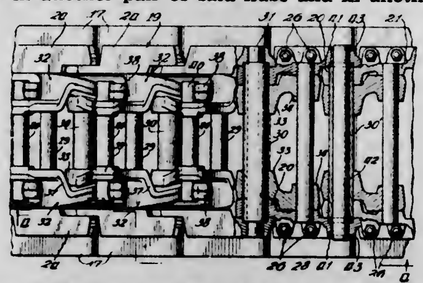
1,946,799
TRACK FOR TRACK LAYING WHEELS

Joseph Kuchar, Chicago, Ill., assignor to Forged-Trak Co., Chicago, Ill., a corporation of Delaware

Application May 6, 1932. Serial No. 609,608
8 Claims. (Cl. 305—10)

8. A track element comprising a shoe plate, a pair of link elements bolted thereto, said link elements being provided with three pairs of aligned hubs, a truss element located adjacent

said link elements, a sleeve having a pressed fit through one pair of said hubs and through a hub in the truss element, a pin having a pressed fit in another pair of said hubs and in another



hub of the truss element, and a pin carried by said truss element at an elevated position, said truss element being provided remote from said means with hooks adapted to engage the similar means of a similar track element.

1,946,800
BOLT

John A. MacLean, Chicago, Ill., assignor to MacLean-Fogg Lock Nut Company, Chicago, Ill., a corporation of Illinois

Application December 2, 1930. Serial No. 499,561
1 Claim. (Cl. 85—9)



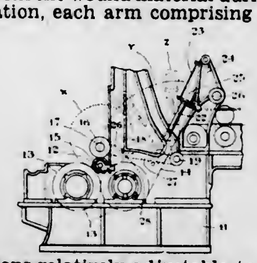
An article of manufacture, comprising a replacement bolt for wood holes comprising a bolt shank having a head, force multiplying means carried by the end of said shank for drawing the head into engagement with the food of a member secured by said bolt, said shank having a non-circular tapered portion adjacent said head, and having wedging surfaces, said tapered portion of the shank increasing in size from the shank to the head and being adapted to be wedged into a worn wood hole to contact the wood fibers surrounding the upper end of the hole, said head comprising a circular member tapering gradually from its center toward its outer edges and adapted to be drawn into the wood substantially flush with the upper surface thereof, and a non-circular ridge having its sides parallel to the said wedging surfaces, substantially V-shaped in cross-section, carried by the lower side of the head for effecting a water tight seal between the head of the bolt and the adjacent wood, said ridge being adapted to prevent rotation of the bolt and cooperating with the wedging surfaces to cam the intermediate wood fibers when being drawn up.

1,946,801
RIDING ROLLER FOR PAPER MAKING MACHINES

Bernard A. Malkin, Lachine, Quebec, and Frank McHenry, Beaupre, Quebec, Canada

Application February 5, 1930. Serial No. 426,087
2 Claims. (Cl. 242—66)

1. A winding machine of the character described including a riding roller and a pair of swinging arms supporting said roller and constraining it to move in an upwardly and laterally curving path as the said roller is displaced by contact with the wound material during the winding operation, each arm comprising complemen-

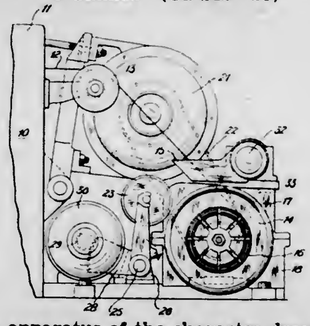


tary sections relatively adjustable to vary the effective length of the arm and means for securing said sections in their adjusted relation.

1,946,802
WINDING APPARATUS

Edwin J. McIlvried, Akron, Ohio, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio

Original application July 26, 1930, Serial No. 470,889. Divided and this application September 14, 1931. Serial No. 562,642
5 Claims. (Cl. 242—25)



1. In apparatus of the character described the combination of a rotatable spool carrier, driving means for rotating said carrier for winding material upon a spool, roller means mounted for movement relative to said spool, and means for pressing said roller means against the material wound on said spool including electromagnetic means adapted to be energized upon interruption of the supply of power to said driving means.

1,946,803
CEREAL FOOD

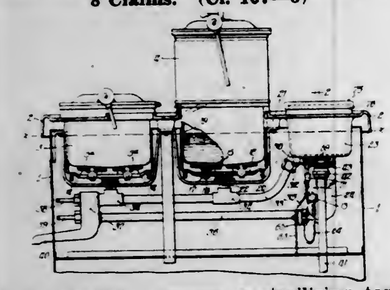
Eugene H. McKay, Battle Creek, Mich., assignor to Kellogg Company, Battle Creek, Mich., a corporation of Delaware

Application April 15, 1929, Serial No. 355,132
Renewed September 27, 1933
5 Claims. (Cl. 99—10)



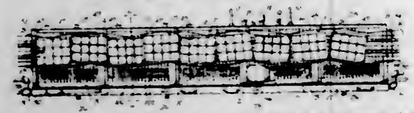
4. A process of making a ready-to-eat cereal food, comprising cooking in moisture rice, as whole kernels and/or broken kernels, partially drying the cooked rice, grinding the cooked partially dried rice into particles about $\frac{1}{16}$ to $\frac{1}{8}$ inch in diameter, forming the ground rice into a ribbon, drying the ribbon until hard and brittle, and then puffing fragments of the ribbon by subjecting the same to heat.

1,946,804
STERILIZING MEANS
Charles R. Meitzler, Rochester, N. Y., assignor to Oscar H. Pieper and Alphonse F. Pieper, Rochester, N, Y.
Application October 30, 1931. Serial No. 571,953
8 Claims. (Cl. 167—3)



5. In sterilizing means, a sterilizing tank, a water tank, a receptacle extending below the water tank and receiving water from the latter adjacent the bottom thereof, a drain pipe extending forwardly from the lower portion of the receptacle, a pipe extending forwardly from the upper portion of the receptacle and opening into the sterilizing tank for supplying water thereto, a valve casing at the forward ends of and common to the pipes, said casing including a drain spout extending therefrom, and valve means associated with the casing for selectively controlling the pipes.

1,946,805
WASHING APPARATUS
Julius J. Mojonnier, Oak Park, Ill., assignor to Mojonnier Bros. Co., a corporation of Illinois
Application November 27, 1931
Serial No. 577,559
7 Claims. (Cl. 141—1)



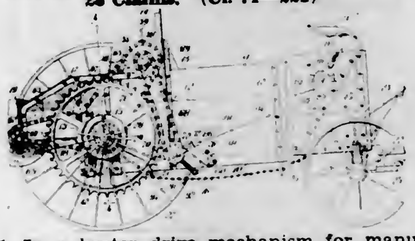
1. A washer for cases and the like, comprising a zigzag conveyor passageway along which the cases are adapted to pass in a zigzag path, said passageway having bottom members lying substantially in a plane and laterally undulating side wall members providing a zigzag channel of substantially uniform width capable of shifting the cases passing therethrough into different positions to properly expose the same for cleansing, a friction drag conveyor movable longitudinally along the bottom of said passageway and adapted to engage the bottoms of said cases and carry them along said passageway, and means for spraying the cases as they travel along said passageway.

1,946,806
TIRE VALVE CAP
George A. Morris, St. Louis, Mo.
Application March 11, 1931. Serial No. 521,627
2 Claims. (Cl. 152—12)



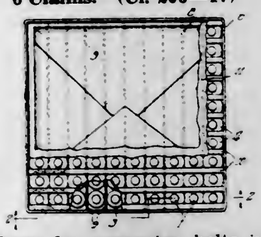
2. An external cap for the reduced threaded end of a tire valve tube, composed of elastic material and comprising a body of relatively large diameter constituting a handle, and a tubular portion of less diameter than and projecting from said body and having an unthreaded inner surface and an internal diameter slightly less than the external diameter of the reduced threaded end of the valve tube to which the cap is to be applied.

1,946,807
MANURE SPREADER
Leonard B. Neighbour, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 11, 1926. Serial No. 140,711
28 Claims. (Cl. 74—221)



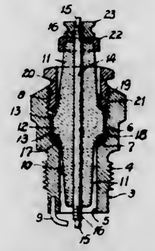
1. In a beater drive mechanism for manure spreaders of the type comprising a driving sprocket wheel, a driven sprocket wheel operatively connected with the beater, and an endless drive chain traveling over said driven wheel and arranged to swing into and out of engagement with said driving wheel, the combination of means for keeping said drive chain taut and for moving it into and out of operative engagement with said driving wheel, comprising an idler member engaging the bight of said drive chain and swinging therewith, a spring connected at one end with said idler member, and at the other end with the spreader frame, and swinging means mounted on the spreader frame to swing toward or from the driving wheel and operatively connected with said idler member, said swinging means being arranged to move said idler member further from the point of connection of said spring with said frame when said chain is swung to its inoperative position by said idler, to increase the tension of said spring.

1,946,808
PACKAGE
Ralph S. Peirce, Hinsdale, Ill.
Application October 27, 1930. Serial No. 491,342
6 Claims. (Cl. 206—47)



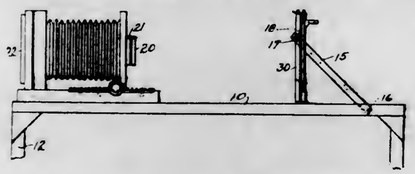
3. A package for expansion bolts including a plurality of bolts arranged abreast; slidable members disposed on the shanks of said bolts; filler strips between the portions of the shanks of said bolts not occupied by said slidable members, said filler strips preventing movement of said slidable members off said shanks; a keeper sheet transverse to said bolts and said filler strips to prevent displacement of said filler strips from between said bolts; and a container for the nuts of said bolts contacting with said keeper sheet.

1,946,809
SPARK PLUG
Walter W. Pillman, Richmond Heights, Mo.
Application June 23, 1933. Serial No. 677,213
1 Claim. (Cl. 123—169)



A spark plug comprising a hollow plug externally threaded near its inner end for engagement in an engine cylinder, the outer end being internally enlarged and threaded, an inclined seat being formed between the outer enlarged end and the inner end, and an electrical terminal secured to the inner end of said hollow plug and extending radially inwardly, an integral porcelain insulator, said insulator formed with two similar frusto-conical portions, these portions being joined by an enlarged cylindrical portion, the frusto conical portions and the cylindrical portion being joined by inclined faces, a metallic rod secured centrally in said insulator and extending beyond the ends of said insulator, the external ends of said rod being reduced in cross sections, so as to produce protruding terminals, the portions of said rod above the protruding terminal external to said insulator being threaded, washers positioned on the inclined seat of said plug in frictional engagement with the inclined faces of said insulator, and an externally threaded assembly lug in threaded engagement with the internal threads of said plug, so that the inner reduced end of said rod is in sparking relationship with the inner protruding terminal formed on said plug, a cap operatively secured over the outer end of said rod in contact with the outer end of said insulator, a nut in selective threaded engagement with the outer end of said rod external to said cap.

1,946,810
SHEET HOLDING FRAME FOR PHOTOGRAPHIC USE
George S. Rowell, Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del., a corporation of Delaware
Application August 26, 1931. Serial No. 559,515
6 Claims. (Cl. 88—24)



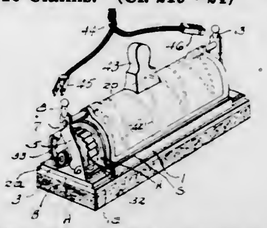
1. The combination of a base member, a surmounting member having a glass plate and hinged to the base member, means for removably hinging such frame to a support, means for holding the frame at substantially right angles to the support, and means for holding one member of the frame at various acute angles to the other member.

1,946,811
DISPLAY COVER
Jacob I. Russakov, Chicago, Ill.
Application September 14, 1931
Serial No. 562,619
1 Claim. (Cl. 220—82)



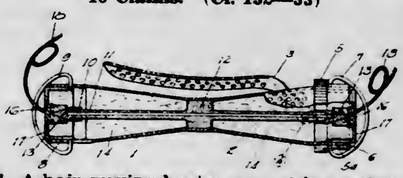
In display-cover construction, the combination with a display cover body formed of thin sheet metal and having an annular top surface defining an open interior, with a depending flange at the outer margin of said surface, a combined hinge-lug and stop member comprising a piece of thin metal formed with an elongated upstanding part serving as a stop for a hinged cover, and integral end parts formed substantially at right angles to the upstanding part and forming therewith a substantially U-shaped construction in top view, integral lugs extending from an edge of said U-shaped construction and extending through openings respectively in the top of the body and being bent over on the under surface of the body, and hinge-lugs for a cover integral with said U-shaped construction.

1,946,812
APPARATUS FOR WAVING HAIR
William G. Shelton, St. Louis, Mo., assignor to W. G. Shelton Company, St. Louis, Mo., a corporation of Missouri
Application April 25, 1930. Serial No. 447,241
10 Claims. (Cl. 219—24)



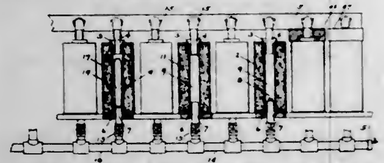
5. In a hair waving device, a clamp, an interior heating member about which a strand of hair may be wrapped, an exterior heating member adapted to be placed over said strand of hair after the same is wrapped on said interior heating member, and means on said clamp, said interior heating member and said exterior heating member for holding said clamp and said heating members in assembled position after the hair is wrapped on the interior heating member.

1,946,813
HAIR WAVING APPARATUS
William G. Shelton, St. Louis, Mo., assignor to W. G. Shelton Company, St. Louis, Mo., a corporation of Missouri
Application January 6, 1933. Serial No. 650,468
16 Claims. (Cl. 132—33)



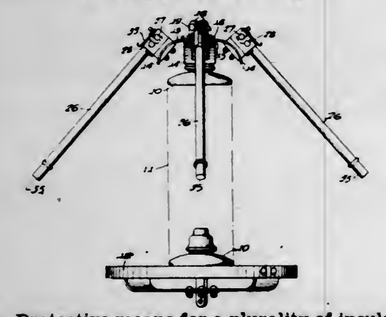
1. A hair-waving heater comprising a shell for receiving a wound strand of hair, heating means inside said shell, and moisture absorbent solid material between said means and shell.

1,946,814
HAY DRYING AND THE LIKE
Alfred Varley Sims, Brooklyn, N. Y.
Application August 20, 1929. Serial No. 387,112
10 Claims. (Cl. 34—24)



2. The process of curing green herbage to form hay which consists in compressing green herbage into a bale, forming an interior cavity in said bale and causing heated gases to percolate outwardly from said cavity through said bale.

1,946,815
ADJUSTABLE GAP PROTECTIVE DEVICE
Edward M. Skipper and Robert L. McCoy, Baltimore, Md., assignors to Locke Insulator Corporation, Baltimore, Md., a corporation of Maryland
Application June 6, 1931. Serial No. 542,675
15 Claims. (Cl. 175—30)

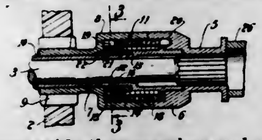


1. Protective means for a plurality of insulators for supporting a conductor, comprising an electrode mounted at one end of the plurality of insulators, and a carrier rotatably mounted at the other end and equipped with a plurality of fuses cooperating with said electrode to define air gaps providing paths for arcs in the event of a flashover.

15. A protective apparatus for insulating means supporting a conductor, comprising an electrode at one end of the insulating means, supporting means at the other end of the insulating means, a plurality of fuses mounted on said supporting means for cooperation with said electrode, and means for adjusting the distance between the fuses and said electrode.

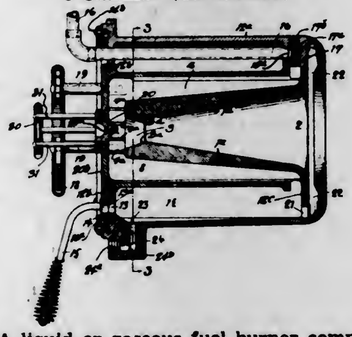
1,946,816
SPRING CLUTCH
William C. Starkey, Indianapolis, Ind., assignor to L. G. S. Devices Corporation, Indianapolis, Ind., a corporation of Indiana
Application January 7, 1931. Serial No. 507,061
7 Claims. (Cl. 192—41)

1. A spring clutch embodying therein two relatively rotatable coaxial members formed to provide a chamber, a main clutch spring located in said chamber and normally having a clearance with respect to the annular wall of said recess and operatively connected at one end to one of said members, means in said chamber mounted for a relative turning movement with respect to the other member and to which the other end of the clutch spring is operatively connected and a second and lighter clutch spring of a diameter smaller than that of the main clutch spring dis-



posed between said other member and said means and operating in one relative movement between said coaxial members to clutch said means to said other member to energize said main clutch spring from that end thereof connected thereto for clutching said two coaxial members together.

1,946,817
APPARATUS FOR GASIFYING COMBUSTIBLE ORGANIC SUBSTANCES
Frans Ivar Eugén Stenfors, Stockholm, Sweden
Application January 31, 1930, Serial No. 424,902, and in Sweden February 13, 1929
8 Claims. (Cl. 158—53)

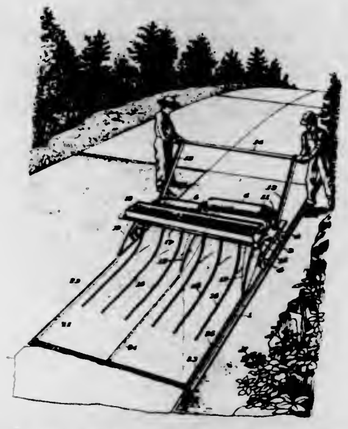


1. A liquid or gaseous fuel burner comprising a cylindrical casing having an annular air preheating chamber confined therein, a cylindrical combustion chamber coaxially mounted in the casing, a mixing chamber at the inner end of the combustion chamber, said combustion chamber having a burner mouth extending inwardly to the mixing chamber, air preheating conduits extending longitudinally of the combustion chamber, one which is selective to constitute a gasifying conduit, a fuel supply conduit adapted to communicate with the conduit selected as the gasifying conduit, said combustion chamber being rotatable in the casing to bring all conduits successively into communication with the fuel supply conduit, the remaining conduits being in communication with the preheating chamber.

1,946,818
WATER PURIFICATION PROCESS
Ralph A. Stevenson, Berkeley, Calif., assignor to Great Western Electro-Chemical Co., San Francisco, Calif., a corporation of California
No Drawing. Application July 21, 1931
Serial No. 552,290
4 Claims. (Cl. 210—28)

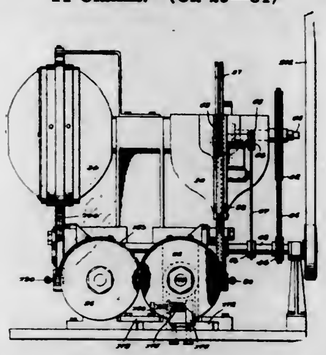
1. The process of water purification which includes the separate chlorination of sludge removed from a body of aqueous media and the application of such separately chlorinated sludge to the precipitation of undesirable suspended matter in water.

1,946,819
MACHINE FOR CURING CONCRETE
William N. Stevenson, Attleboro, Mass., assignor to American Reenforced Paper Company, Attleboro, Mass., a corporation of Massachusetts
Application July 8, 1931. Serial No. 549,390
6 Claims. (Cl. 94—39)



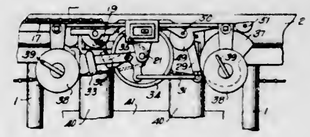
1. In a machine for curing concrete, the combination of a bridge or carriage movable along the roadway, a package of sheet material mounted on the bridge or carriage, and means supported on the bridge or carriage for delivering granular material from the bridge or carriage to the side edges of the sheet material as the bridge or carriage is moved along the roadway to bond the side edges of the sheet material to the concrete and prevent displacement of the sheet material by air currents during the concrete curing period.

1,946,820
COUPLING MECHANISM FOR NUTS AND WASHERS
Albert Stoll, Detroit, Mich., assignor to National Machine Products Company, Detroit, Mich., a corporation of Michigan
Application July 13, 1932. Serial No. 622,343
14 Claims. (Cl. 29—84)



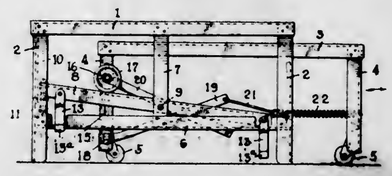
1. In a mechanism for coupling nuts and washers, a pair of rotatable carriers arranged in edge to edge relation and having nut and washer conducting means, feeding devices to furnish nuts and washers to said rotatable carriers, and retaining devices associated with said carriers.

1,946,821
MECHANISM OPERATOR
Russell Stover, Chicago, Ill.
Original application February 23, 1929, Serial No. 342,278. Divided and this application July 24, 1930. Serial No. 470,413
2 Claims. (Cl. 74—53)



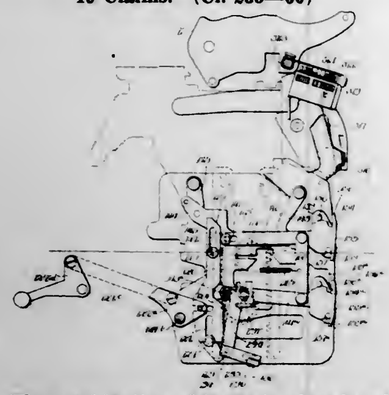
1. In a device of the character described, the combination with a rotatable driving shaft, of a cam fixed for rotation with said shaft, a bell crank member pivoted in the path of said cam for oscillation responsive to the rotation thereof, a driven wheel member, a counter weighted lever member pivoted relative to said wheel member, a friction shoe pivoted to said lever member for engagement with the periphery of said wheel member, link means interposed between said bell crank and lever members to oscillate said lever member in periodic engagement with said wheel member through the medium of said friction shoe, and adjustable means in the path of said bell crank to regulate the oscillatory throw thereof, thereby controlling the extent of motion imparted to said wheel member with each oscillation of said pivoted lever member.

1,946,822
STUDIO COUCH FRAME
Clark Hamrick Turner, Baltimore, Md., assignor to Foster Brothers Manufacturing Company, Inc., Baltimore, Md., a corporation of Maryland
Application June 17, 1933. Serial No. 676,352
5 Claims. (Cl. 5—18)



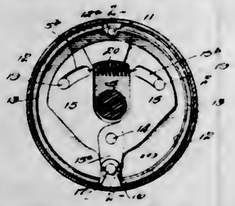
1. An extensible couch frame comprising a movable section and a stationary section in telescoping relation, said stationary section having ends each comprising a pair of legs and a stationary trackway supported by said legs, a tiltable trackway carried by one of the ends of said stationary section, a fixed roller carried by the movable section of said couch frame and adapted for engagement with said stationary trackway, and a movably mounted roller also carried by said movable section, spring means yieldingly urging said movably mounted roller into engagement with said tiltable trackway, said rollers and trackways cooperating, when said tiltable trackway is shifted, to cause movement of said movable section relatively to said stationary section, and operating means located adjacent one leg of the stationary section for causing tilting of said tiltable trackway.

1,946,823
AUTOMATIC COUNTER CONTROL
Oscar J. Sundstrand, Bridgeport, Conn., assignor to Sundstrand Corporation, Wilmington, Del., a corporation of Delaware
Application April 17, 1929. Serial No. 355,747
Renewed November 15, 1933
19 Claims. (Cl. 235—60)



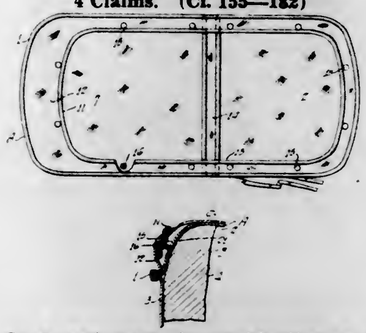
4. The combination of two sets of racks which face each other, two counters mounted on parallel axes between said sets of racks, and means to control the engagement of the counters with said sets of racks, said means including automatically actuated mechanism to control the engagement of a certain one of the counters with said sets of racks.

1,946,824
CENTRIFUGAL CLUTCH
Alan C. Ward, Ada, Ohio, assignor to W. C. Ward, Warren, Ohio
Application May 1, 1931. Serial No. 534,429
7 Claims. (Cl. 192—105)



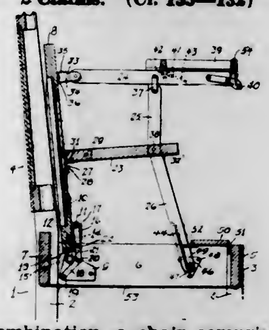
1. In a centrifugal clutch for establishing driving connection between adjacent rotatable members, a plate carried by one of said members, a cup-like member rigidly secured to the other member, said plate being disposed within the confines of said cup flange, a post carried by said plate member at one side of said shaft and adjacent the flange of said cup, oppositely extending laterally swinging arcuate shoes journalled upon said post at their adjacent ends, and being disposed adjacent and within the flange of said cup, weights disposed about said shaft, a second post carried by said plate at the opposite side of said shaft and remote from said first post and pivotally supporting said weights, said weights having substantially alined actuating arms adjacent said last mentioned post, and extending radially beyond said post toward the adjacent portion of the flange of said cup, each of said shoes having its free end provided with upstruck bearing portion, the upstruck bearing portions of said shoes being disposed in substantial alinement and in overlapping relation with the end portions of said actuating arms, each actuating arm being pivoted to one of said upstruck portions, and friction material interposed between said shoes and the flange of said cup.

1,946,825
SEAT COVER
Edward Wittcoff, University City, Mo., assignor to Evr-Kleen Seat Pad Company, St. Louis, Mo., a corporation of Missouri
Application December 14, 1932
Serial No. 647,127
4 Claims. (Cl. 155—182)



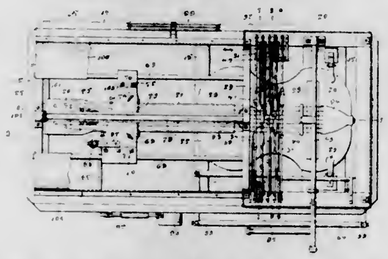
1. In a seat-cover, in combination, a fabric body-member for protectingly overlying a seat, means on the under face of said member for detachably securing the body-member upon a seat, a flexible flap fixed at its outer margin to, and extending around and overlying the marginal portion of the upper face of, said member, a matting section marginally throughout its contour interposed between said flap and body-portion and marginally concealed by the flap, and co-operable members on the section and flap for removably securing the section to the flap in flatwise overlying relation both to the body-member and to the seat.

1,946,826
COMBINATION CHAIR AND HIGH CHAIR
Giovanni Agati, San Francisco, Calif.
Application June 27, 1933. Serial No. 677,926
2 Claims. (Cl. 155—132)



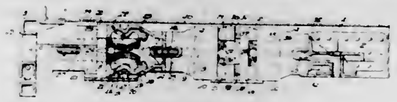
1. In combination, a chair comprising a seat box, legs supporting the same, a back, a seat and means for hinging the seat to the seat box arranged to effect a slight forward movement of the seat when the latter is raised, the latter means comprising a single link having pivoted connection with the seat and the box respectively, a pair of links having pivotal connections with the seat and the box respectively and having a floating pivot between the same and an arm pivoted coaxially with one of the single link pivots and pivotally engaging that one of the pair of links which is pivoted to the seat for swinging the seat engaging end of the latter link and the seat forward when the seat is raised.

1,946,827
MECHANICAL PLAYER FOR STRINGED INSTRUMENTS
Edward W. Bach, Rose Lake, British Columbia, Canada
Application August 14, 1933. Serial No. 685,127
9 Claims. (Cl. 84—320)



1. In an apparatus of the kind described, a support, a plurality of carriers movably held in said support, means for clamping a stringed musical instrument in the support, picker fingers on said carriers and movable into and out of engagement with the strings of the instrument, pedals having connection with the fingers and operably controlling the same and the said carriers, a fret device manually controlled, a knee operated device for actuating said fret device, and a key stick manually movable and cooperating with the fret device.

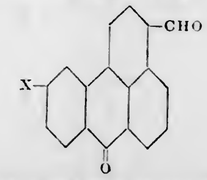
1,946,828
DRAFT RIGGING
Donald S. Barrows, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a corporation of Maryland
Application April 20, 1931. Serial No. 531,549
6 Claims. (Cl. 213—22)



3. In railway draft rigging, in combination with draft sills, a backstop rigidly connected to said sills, a drawbar, a plurality of cushioning units disposed longitudinally of one another between said drawbar and said backstop and acting in series to yieldingly resist buffing movement of the drawbar, one of said cushioning units being intermediate others and each of said units involving a friction casing and a plurality of friction elements cooperating therewith, said backstop engaging and serving to prevent rearward movement of the friction casing of the rearmost cushioning unit, means acting as a forward stop for an intermediate cushioning unit, yoke-acting means operatively connected to the drawbar, disposed forwardly of said rearmost unit, and embracing and serving to communicate draft force to said intermediate cushioning unit, and carry iron means supporting the adjacent ends of the friction casings of the intermediate and rearmost units.

1,946,829
BENZANTHRONE-1-ALDEHYDE AND PROCESS OF MAKING SAME
Otto Bayer, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application April 5, 1933, Serial No. 664,667, and in Germany April 15, 1932
6 Claims. (Cl. 260—61)

4. The benzanthrone-bz-1-aldehydes which may contain in 6-position a halogen atom and which correspond to the formula



wherein X means hydrogen or halogen, said compounds representing yellowish crystals having a definite melting point, forming intensely colored vats.

1,946,830
TAKE-UP CONNECTER FOR ANCHOR RODS AND GUY WIRES
Jasper Blackburn, Webster Groves, Mo.
Application August 6, 1932. Serial No. 627,739
3 Claims. (Cl. 24—123)

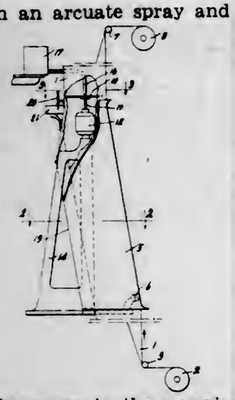


1. In a device of the kind described, the combination with an elongated frame having two elongated, oppositely located side openings and an aperture formed through one end of the frame, there being lips upstanding at the outer edges of this apertured end, across the open sides of the frame, thereby forming a seat at said apertured end, of a link extended through the apertured end of the frame, the said link having a laterally enlarged head seated within the frame upon the said seat.

1,946,831
APPARATUS FOR COATING PAPER OR THE LIKE
Russell S. Bracewell, South Hadley, Mass.
Application December 11, 1931
Serial No. 580,369
8 Claims. (Cl. 91—44)

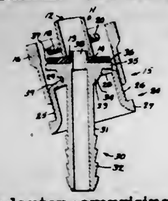
4. Apparatus for coating paper or the like which comprises, means for projecting the coat-

ing matter in an arcuate spray and means for



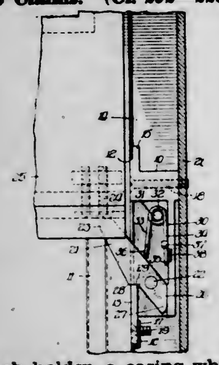
presenting the paper to the spraying means in an arcuate form concentric with the spray.

1,946,832
FAUCET ADAPTER
Arthur H. Brandon, Los Angeles, Calif.
Application March 11, 1931. Serial No. 521,672
5 Claims. (Cl. 285—163)



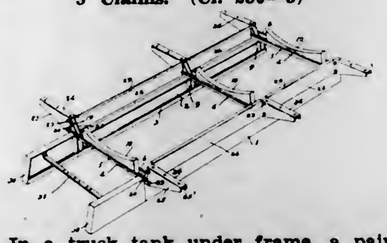
1. A faucet adapter comprising a hose connector having a guide tube and a packing washer surrounding the tube, means to attach the connector to a faucet with the washer bearing against the discharge end of the faucet, said means forcing the connector to accommodate itself to various angles of the end of the faucet in reference to the axial line of the faucet adjacent its end.

1,946,833
SASH HOLDER
Ralph Brown, Wilmette, Ill., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois
Application February 15, 1932. Serial No. 592,887
5 Claims. (Cl. 292—228)



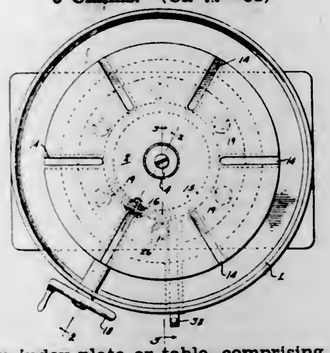
1. In a sash holder, a casing which is open at the front and is also open at one side, a dog which is pivotally mounted in the casing and is movable through the open front of the latter, a stud in the casing terminating at the open side of the latter in a plain free end, a spring which is supported on the stud with one end projecting into engagement with the back of the dog and with the other end projecting into engagement with the rear wall of the casing, and means for preventing removal of the spring from the free end of the stud until after the last mentioned end of the spring has been pried away from the rear wall of the casing.

1,946,834
TRUCK TANK UNDERFRAME
Walter V. Brown, Brandon, Manitoba, Canada
Application March 9, 1931, Serial No. 521,179, and in Canada June 30, 1931. Renewed July 21, 1933
5 Claims. (Cl. 280—5)



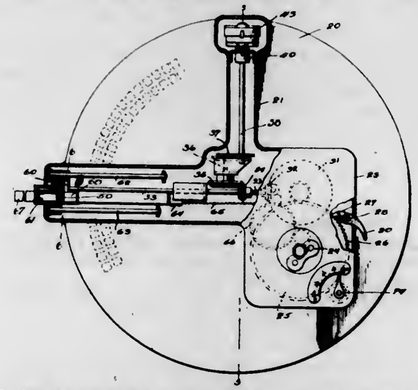
1. In a truck tank under frame, a pair of opposing longitudinally extending sheet metal sills of channel iron cross section, spaced similar sheet metal bolsters of channel iron cross section having their ends resting on the top flanges of the sills, said bolters having the side flanges thereof up turned and provided with out turned reinforcing lips, sheet metal reinforcing saddles welded to the sills between the flanges of the sills and located directly underneath the overlying ends of the bolsters and fastening bolts securing the bolsters to the sills, the bolts passing through the saddles.

1,946,835
TABLE INDEX MECHANISM
Joseph F. Buhr, Ann Arbor, Mich., assignor to Buhr Machine Tool Co., Ann Arbor, Mich., a corporation of Michigan
Application November 14, 1929
Serial No. 407,034
6 Claims. (Cl. 77—64)



1. An index plate or table, comprising a base, a table rotatably supported thereby and adapted for the positioning of work thereon at several points about its periphery, means for turning the table comprising a rotatable gear mounted in the base, a companion gear connected with the table, manual means for rotating the first named gear and thereby turning the table, and means for stopping the table at successive points of its rotation determined by the positions occupied by the work comprising a series of equi-distantly positioned recesses corresponding in number to the number of stations occupied by the work, a spring-pressed plunger riding the under surface of the plate to engage in the successive recesses, the under surface of the plate being so constructed that, as a recess is brought toward the plunger, the end of the plunger arises above the surface traversed between the recesses before it enters the recess, the side of the recess opposite the side entered by the plunger providing a strike or stop for the plunger at the time the recess and plunger are in registration, the said recess having a coned aperture and the plunger having a coned end portion complemental thereto whereby engagement of the plunger in the recess accurately centers the same, and manual means for withdrawing the plunger to permit rotation of the table to bring successive recesses to be engaged by the plunger.

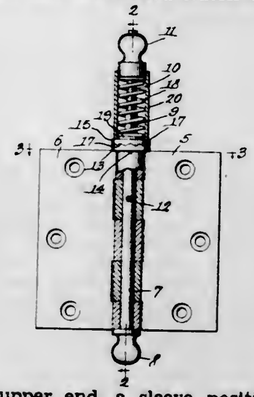
1,946,836
CAMERA
Curtis D. Chase, Philadelphia, Pa., assignor to Chase Rights Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application April 27, 1929. Serial No. 358,617
22 Claims. (Cl. 88—18.3)



1. In apparatus of the character described, in combination, a casing adapted to contain a disk film, a motor associated with said casing adapted intermittently to rotate the film within the casing, a lens whose optical axis extends at right angles to the axis of rotation of the film, means for continuously moving the lens radially with respect to the film, and means associated with the lens to direct the image at right angles to the optical axis of the lens and on to the film.

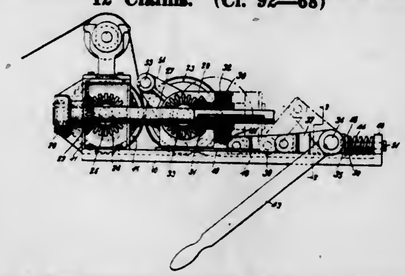
1,946,837
DOORCHECK
Walter Clayton, Belmar, N. J.
Application October 13, 1932. Serial No. 637,639
1 Claim. (Cl. 16—141)

A hinge of the class described, comprising leaves, a pivot pin for the leaves, a pin connecting one of the leaves to the pivot pin, one of the leaves having a recess in the upper edge thereof, a clutch disk having a lug fitted in the recess, securing the clutch disk to the hinge leaf having the recess, said pivot pin extending an appreciable distance above the upper end of the hinge, a portion of the pivot pin above the clutch disk being square in cross section, said pivot pin having threads above the square portion, a clutch disk having a square opening accommodating the square portion of the shaft, locking the shaft and last mentioned clutch disk together, the last mentioned clutch disk having



a reduced upper end, a sleeve positioned over said reduced upper end of the clutch disk, a coiled spring surrounding the upper end of the pivot pin, and a tensioning head having a threaded opening to accommodate the threaded portion of the pivot pin, said tensioning head bearing directly against the spring, tensioning the spring, and said tensioning head being of a diameter to closely fit within the sleeve, and held against lateral movement by the sleeve.

1,946,838
EMBOSSING ATTACHMENT FOR PAPER MAKING MACHINES
Austin E. Cofrin, Green Bay, Wis.
Application June 13, 1932. Serial No. 616,995
12 Claims. (Cl. 92—68)

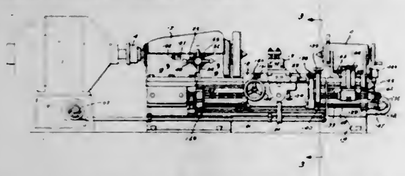


1. A device for embossing paper, comprising in combination: coacting embossing rolls bearing on their surfaces complementary raised and depressed embossing elements; and means for widely separating and approximating said rolls whereby to permit paper to be threaded through the same when separated.

1,946,839
LATHE
Lyndon C. Cole, Hamilton, Ohio, assignor to General Machinery Corporation, Hamilton, Ohio, a corporation of Delaware
Application March 27, 1931. Serial No. 525,735
25 Claims. (Cl. 82—2)

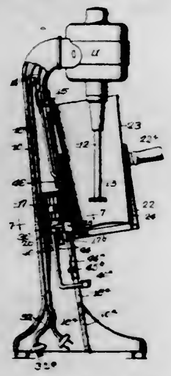
1. In a lathe, in combination, a bed, a carriage movable thereon, a feed and rapid traverse shaft

rotatably mounted on said bed, means rotatably mounted on the carriage for continuous rotation by said shaft, feed mechanism operated by said means, additional means on said carriage having threaded engagement with said shaft for traversing said carriage, electric motor means for driving said shaft, and means for varying the speed of said electric motor means.



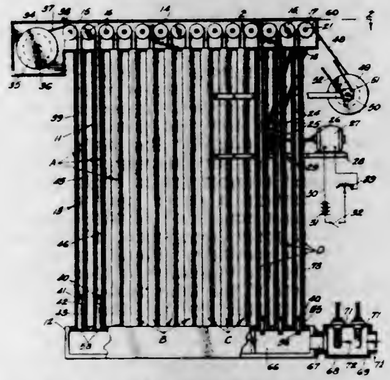
12. In a lathe, in combination, a bed, a carriage movable thereon, a work spindle, a main motor driving said spindle, switch means on said carriage for starting and stopping said main motor, a rotatable shaft mounted on said bed, mechanism on said carriage cooperating with said shaft for rapidly traversing said carriage in either direction and for feeding the carriage in either direction, control means for said mechanism, a variable speed motor, a constant speed motor, differential mechanism connecting said motors to said shaft, switch means on said carriage for starting and stopping all said motors, and switch means on said carriage controlled by rapid traverse movements of said control means for automatically starting said constant speed motor if the main motor is stopped and for automatically stopping said variable speed motor if it is running.

1,946,840
DRINK MIXER
John W. Cox, Newark, N. J., assignor to The Gilchrist Company, Newark, N. J., a corporation of New Jersey
Application August 11, 1930. Serial No. 474,382
31 Claims. (Cl. 219—41)



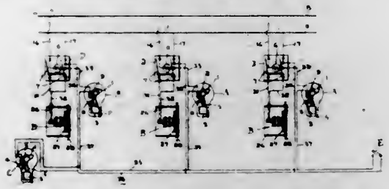
1. In an electric drink mixer, the combination of a supporting column, an electric motor mounted on the upper end of the column and adapted to drive a depending agitator, means for supporting a container in operative position around the agitator, a switch for controlling the motor, a pair of contacts for closing a heater circuit for the container, carried by the column, and movable into and out of position to engage contacts on the heater, and means, carried by the column, for shifting said pair of contacts.

1,946,841
TENSION-OPERATED MOTION-PICTURE FILM DEVELOPING MACHINE
Vincent C. de Ybarrondo, Los Angeles, Calif., assignor to Patco, Inc., Los Angeles, Calif., a corporation of California
Application October 27, 1930. Serial No. 491,403
17 Claims. (Cl. 95—94)



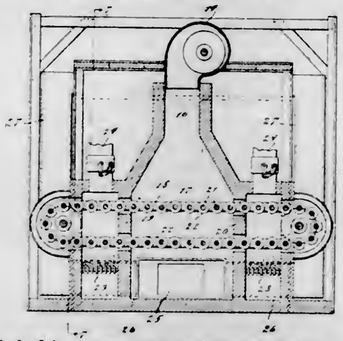
1. In an apparatus for developing motion-picture film, which includes walls forming a plurality of treating chambers in consecutive arrangement, said treating chambers being adapted to contain fluids for accomplishing the complete development of a motion-picture film, the combination of: guide means for conducting a film into the first of said treating chambers; means for guiding a film through said chambers; a puller sprocket near the exit of the last of said treating chambers, having sprocket teeth positively engaging said film; and means for driving said sprocket so as to pull said film through said plurality of treating chambers.

1,946,842
TEMPERATURE CONTROL SYSTEM
Earnest J. Dillman, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application May 29, 1930. Serial No. 456,959
12 Claims. (Cl. 236—47)



1. A control system comprising a unit heat exchange means having air blast means and a motor for driving said blast means, an electric circuit for energizing said motor, an electric switch controlling said circuit, a thermostat connected to said switch and operable when satisfied to open said switch, a second electric switch controlling said circuit, a second thermostat connected to said second-named switch and operable when satisfied to open said second-named switch, said first-named switch and said second-named switch being connected in series circuit whereby either of said thermostats is operable to break said motor circuit, and means operable to short-circuit said second-named switch.

1,946,843
BAKING OVEN
Irwin Elliott, Harmon, N. Y., assignor to Universal Oven Company, Incorporated, New York, N. Y., a corporation of New York
Application August 7, 1930. Serial No. 473,574
9 Claims. (Cl. 107—57)



1. A baking oven comprising a baking chamber, a heating chamber adjacent said baking chamber and separated therefrom by a heat conducting wall, means to supply hot gases to said heating chamber, said means comprising a passage for said gases, an endless metallic heat exchange device adapted to move through said passage, and means to heat said device at opposite sides of said passage.

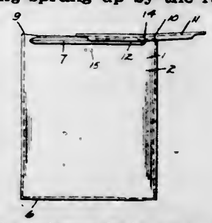
1,946,844
NECKTIE PRESS
John P. Ernster, Beverly Hills, Calif.
Application April 8, 1930. Serial No. 442,499
3 Claims. (Cl. 219—19)



3. In combination, a frame for stretching a tie, said frame consisting of a front ironing plate having a marginal flange, and a back plate, the plates being united by said flange, the back plate being formed with a socket at one end and a heating chamber extending centrally from the said socket to near the opposite end; a heater in said chamber, and a handle secured in said socket.

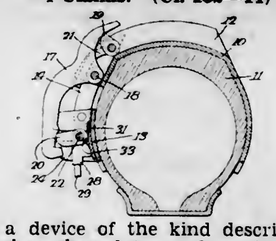
1,946,845
TOBACCO BOX
Oliver P. Fisher, Rochester, N. Y.
Application March 26, 1930. Serial No. 439,180
1 Claim. (Cl. 206—41)

A box made of sheet material having two parallel sides, grooves formed in said sides near the top thereof, the ends of the box being raised up above the sides, a flat cover for said box having inturned flanges along the edges thereof adapted to engage the grooves in the sides, the ends of the cover being sprung up by the raised ends of



the box and the intermediate part of the box being sprung down by the engagement of the flanges with the grooves in the sides of the box, said cover having a projection on the under side thereof adapted to engage with the ends of the box and limit the travel of the cover.

1,946,846
TRACTION SHOE
Richard G. Gebhart, Chicago, Ill.
Application October 26, 1933. Serial No. 695,230
4 Claims. (Cl. 152—14)



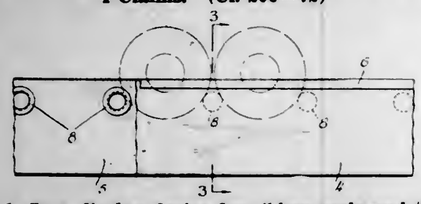
1. In a device of the kind described, a segmental shoe shaped to conform to a tire and to overlap the tread face and one side face thereof, a segmental plate for engaging a side face of a tire and connected to the shoe by a link pivoted to each of the named parts, a lever pivoted to one of the named parts and a cam reacting between one of the parts and the lever for urging the lever against the other part.

1,946,847
HAIR WAVING APPARATUS
Henry Gerken, Oakland, Calif.
Application September 5, 1933. Serial No. 688,222
8 Claims. (Cl. 132—36)



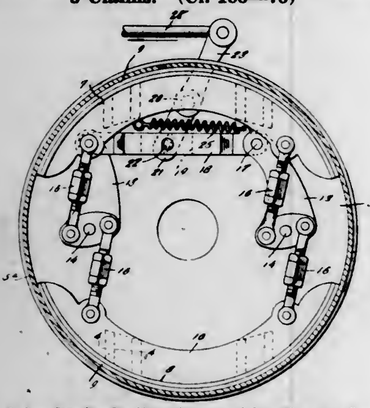
1. A hair-waving appliance, comprising in combination, a body having a heating chamber therein and a semi-circular wall, said body being formed with outwardly extending flanges upon opposite sides thereof, an electric heating element contained within said chamber, a pair of covering-plates whose inner surfaces are of circular configuration conforming to said wall of the body and being complementary thereto to form a substantially cylindrical treating chamber, said plates being pivotally and detachably mounted upon said flanges, a spool upon which the hair to be waved is coiled, said spool having cylindrical ends of substantially the diameter of said treating chamber upon which said plates are supported when in closed condition, and means to yieldingly close said plates.

1,946,848
DISPLAY DEVICE
Bertram J. Goldsmith, Allentown, Pa.
Application October 22, 1931. Serial No. 570,337
4 Claims. (Cl. 206—72)



1. In a display device for ribbon reels and the like, a trough-like body portion, an inner liner therefor having flanges engageable over the upper edges of said body portion, and bearing members carried by said inner liner for engagement by the ends of a reel to support the latter in a position wherein a part thereof extends above said body portion.

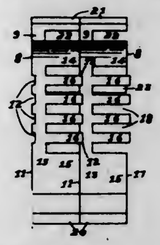
1,946,849
BRAKE
Herman E. Golliner, Buffalo, N. Y.
Application July 23, 1932. Serial No. 624,264
3 Claims. (Cl. 188—78)



1. A brake including in combination a drum, a cover plate for said drum provided with ribs, a pair of oppositely disposed brake shoes arranged in said drum, channel members on said brake shoes engaging said ribs whereby said shoes are constrained to shift radially of said drum, a pair of levers pivotally mounted in said drum at diametrically opposite sides of the center of said drum, relatively rigid adjustable means pivotally connecting said levers with said brake shoes, spring means normally urging said levers to rotate in one direction, and means for rotating said levers in a relatively opposite direction against the action of said spring means.

1,946,850
TUYÈRE
John C. Goss and Harry L. Crispen, Pittsburgh, Pa.
Application August 7, 1931. Serial No. 555,788
1 Claim. (Cl. 110—44)

In combination, a tuyère block comprising a vertically disposed wall provided with a large opening, a plurality of spaced bars extending laterally from one side of said wall and being disposed forwardly of said opening, the upper and lower of said bars being enlarged, the free ends of the bars disposed intermediately of said upper and lower bars projecting beyond the free ends of the latter, the other side of said wall being formed with a plurality of recesses horizontally aligned with and extending parallel to respective intermediately disposed bars, the depths of said recesses corresponding to the lengths of the pro-



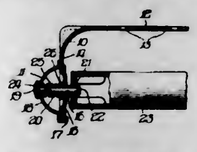
jecting portions of said intermediately disposed bars, a substantially L-shaped tying lip extending laterally from said wall, the vertical portion of said tying lip being spaced from and disposed directly back of the said upper bar providing a passage therebetween, a laterally extending top bar carried by said wall and being disposed over but spaced from said passage, and a connecting lip depending from said lower bar, substantially as described and for the purpose set forth.

1,946,851
METHOD OF VAPORIZING MERCURY
John J. Grebe, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application July 31, 1930. Serial No. 472,026
5 Claims. (Cl. 122—40)



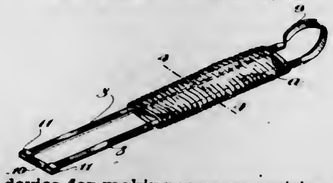
1. The method of vaporizing mercury which comprises causing a current of mercury vapor to traverse a heating zone wherein the same is superheated by transfer of heat from an external source and simultaneously injecting into said current successive small portions of liquid mercury, whereby such liquid is vaporized by the superheat of the vapor.

1,946,852
CURTAIN ROLLER BRACKET
William S. Hamm, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois
Application December 27, 1932
Serial No. 648,889
11 Claims. (Cl. 156—24)



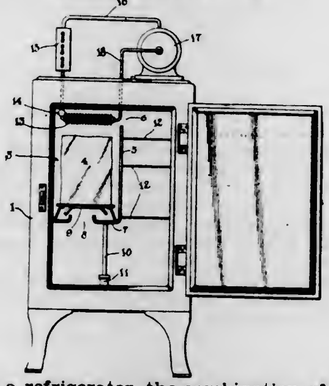
1. In a curtain roller bracket, a head, and an axially retractable roller-supporting member which is secured in the head and is designed for coaction with an aperture in one end of a curtain roller.

1,946,853
PROCESS AND APPARATUS FOR MAKING RUGS
Charlotte A. Hollister, Minneapolis, Minn.
Application November 9, 1931. Serial No. 573,731
3 Claims. (Cl. 112—9)



1. A device for making rugs comprising spaced parallel bars connected at one end by a loop that is raised above the plane of the parallel bars so that a foot of a sewing machine may pass under the same.

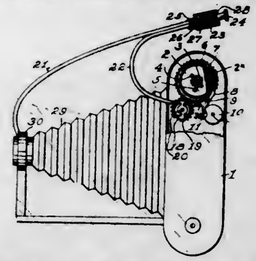
1,946,854
METHOD AND APPARATUS OF REFRIGERATION
Robert K. Horner, Flint, Mich.
Application January 4, 1933. Serial No. 650,158
4 Claims. (Cl. 62—116)



1. In a refrigerator, the combination of a heat insulated casing; means for supporting ice within said casing and for directing either a thermosiphon or forced air circulation through said refrigerator and in contact with said ice; a mechanical heat absorbing unit also mounted in said refrigerator in the path of such circulation; and constantly operating means for withdrawing heat from said heat absorbing unit and serving to maintain the same at a substantially uniform temperature approximating but above the freezing temperature of water.

1,946,855
CAMERA
Edward H. Horns, Waterloo, Iowa, assignor of one-half to Winfield F. Horns, Bemidji, Minn.
Application September 15, 1932
Serial No. 633,317
4 Claims. (Cl. 242—71)

2. In a camera, in combination, manually operable mechanism for carrying and rolling up a film and including a spring barrel carrying an annular ratchet-wheel thereon, a rotatable disk having a single edge notch, a medially pivoted double end dentated pawl between said disk and ratchet-wheel normally engaging both and having an offset arm, a manually actuable resiliently controlled means including a hook releasably engageable with the offset arm of said pawl to disengage the pawl from the disk and ratchet-wheel,



and operating connections between the film and said disk to rotate it into position to reengage the pawl.

1,946,856
PORTABLE INDOOR CLOTHES-DRYING RACK
Cecil L. Houston, Dallas, Tex.
Application April 5, 1933. Serial No. 664,641
4 Claims. (Cl. 211—155)

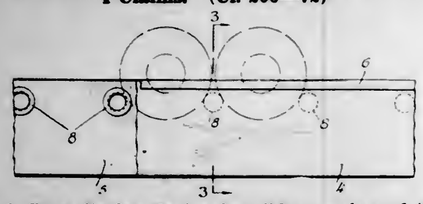


1. A clothes-drying rack including a base, a standard rising therefrom and provided with a head having a lateral arm, a frame having side and end bars connected at their ends, a cross bar extending between certain of the former bars, means rotatably connecting the cross bar with said arm, and suspending devices carried by the frame for connecting clothes thereto.

1,946,857
AIR COMPRESSOR
James M. Jones, Manchester, Ky., assignor of one-fifth to Roy W. House, one-fifth to William Marcum, Jr., and one-fifth to J. M. Lyttle, Manchester, Ky.
Application November 10, 1932
Serial No. 642,085
6 Claims. (Cl. 230—174)

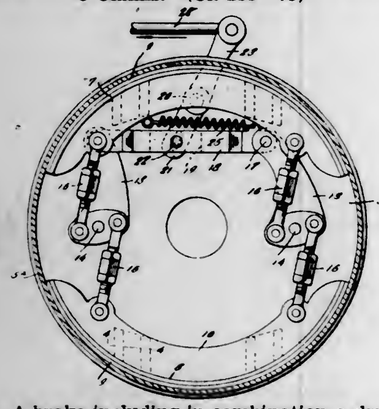
1. An air compressor, comprising channeled members angularly arranged, tubular members slidably mounted in said channeled members, a piston member slidably mounted in adjacent ends of said tubular members, means to actuate said piston and tubular members, the channeled members provided with intake and exhaust ports, spring closed valves mounted on said channeled members for controlling the intake ports, means controlled by the tubular members to open said valves, other spring closed valves mounted on

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Application October 22, 1931. Serial No. 570,337
4 Claims. (Cl. 206—72)



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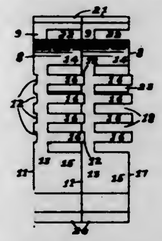
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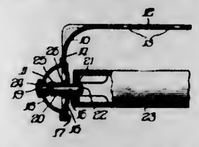
jecting portions of said intermediately disposed bars, a substantially L-shaped tying lip extending laterally from said wall, the vertical portion of said tying lip being spaced from and disposed directly back of the said upper bar providing a passage therebetween, a laterally extending top bar carried by said wall and being disposed over but spaced from said passage, and a connecting lip depending from said lower bar, substantially as described and for the purpose set forth.

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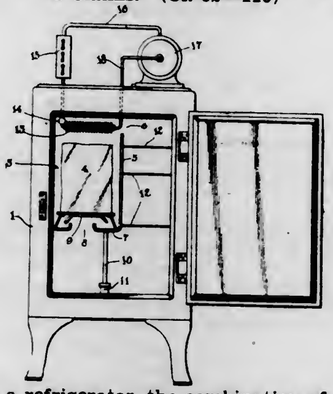
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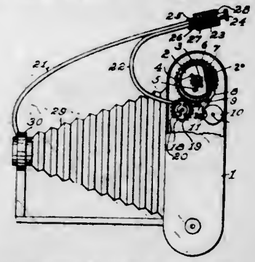
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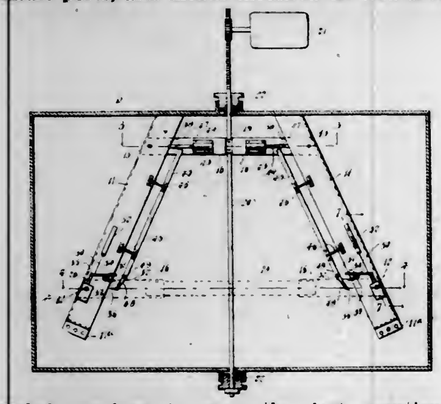


1. A clothes-drying rack including a base, a standard rising therefrom and provided with a head having a lateral arm, a frame having side and end bars connected at their ends, a cross bar extending between certain of the former bars, means rotatably connecting the cross bar with said arm, and suspending devices carried by the frame for connecting clothes thereto.

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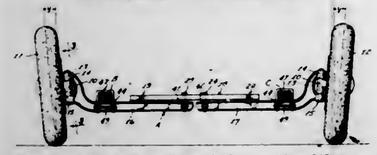
1. An air compressor, comprising channeled members angularly arranged, tubular members slidably mounted in said channeled members, a piston member slidably mounted in adjacent ends of said tubular members, means to actuate said piston and tubular members, the channeled members provided with intake and exhaust ports, spring closed valves mounted on said channeled members for controlling the intake ports, means controlled by the tubular members to open said valves, other spring closed valves mounted on

said tubular members for controlling the exhaust ports, and means mounted on said chan-



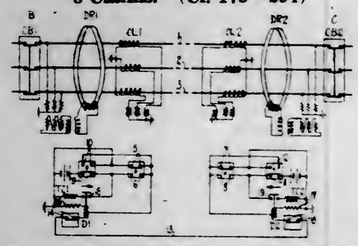
neled members to open the last mentioned valves.

1,946,858
ADJUSTABLE FRONT AXLE FOR AUTOMOBILES AND THE LIKE
Frank J. Kahle, Huntington Park, and Rudolph W. Baer, Los Angeles, Calif.
Application April 13, 1931. Serial No. 529,664
11 Claims. (Cl. 280—95)



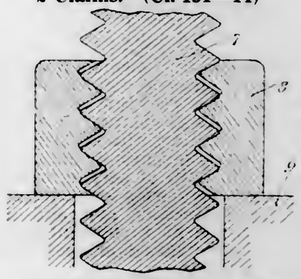
1. For use in an automobile or the like: a front axle divided into two sections, each having a wheel-supporting spindle on its outer end; means including a connection plate for rigidly connecting said sections; and means for angularly adjusting each of said sections relative to the other.

1,946,859
PROTECTIVE ARRANGEMENT FOR ELECTRIC POWER LINES
Reginald Otto Kapp and Charles George Carrothers, London, England
Original application May 23, 1929, Serial No. 365,527, and in Great Britain May 23, 1928. Divided and this application November 9, 1932, Serial No. 641,940
8 Claims. (Cl. 175—294)



1. In an electric power transmission system an electric cable having power conductors and a pilot wire embedded therein, a source of electrical energy for supplying power to the power conductors of said cable, apparatus located at one end of the cable for controlling the disconnection of said cable from the system at that end in the event of a fault occurring therein including a directional relay responsive to current flowing in the power conductors at that end, an electromagnetic relay, a circuit-breaker and a tripping coil for said circuit breaker, a second apparatus located at the other end of said cable including a directional relay responsive to the current flowing in the power conductors at said other end of said cable, an electromagnetic relay, a circuit-breaker and a tripping coil for said circuit breaker, auxiliary sources of electrical energy independent of said first source one at each end of said cable, a circuit extending between the two ends of said cable and including said pilot wire and said auxiliary sources of electrical energy to enable the directional relay of one apparatus to control the electro-magnetic relays of the other apparatus and means controlled by the directional relay at one end in response to particular current conditions in said power conductors for closing a point in the circuit of the local tripping coils simultaneously with it exerting a control over said pilot wire tending to cause the electromagnetic relay at the distant end to close a circuit in the said tripping coil at said distant end and means controlled by the directional relay at the other end in response to particular current conditions in the power conductors at said other end for closing a point in the circuit of a local tripping coil simultaneously with it exerting a control over said pilot wire tending to cause the electromagnetic relay at the distant end to close a point in the circuit of the tripping coil at the distant end, the circuit arrangements being such that in the event of a fault in the power line both switching devices will operate to cause the circuit of the tripping coils at each end to be completed.

1,946,860
SELF LOCKING THREAD SYSTEM
Jakob de Rytter Kielland, Vinderen, near Oslo, Norway
Application April 20, 1932, Serial No. 606,498, and in Norway May 27, 1931
2 Claims. (Cl. 151—14)



1. In combination with a normal or standard thread bolt, a self-locking nut having a thread the profile of which is formed by the superposition of two normal thread profiles having different bottom diameters and being axially displaced with regard to each other a fraction of a full pitch of the thread whereby a stepped surface is obtained upon one side of the modified thread.

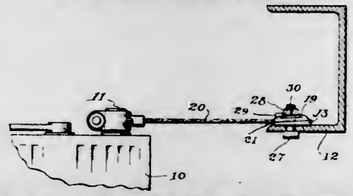
1,946,861
DEVICES FOR SUPPORTING ADVERTISING MATTER IN TIRES
Herman E. Kistler, Wheeling, W. Va.
Application June 5, 1933. Serial No. 674,419
3 Claims. (Cl. 40—125)

1. A device for retaining advertising matter on tires comprising an expansible ring having a flange to engage the tire, means for retaining the split ring in expanded or contracted position, a second ring received within the first ring, a sheet of fibrous material having its peripheral portion located between the interfitted rings, means for



retaining the second ring in expanded or contracted position within the first ring so that it will clamp the peripheral portion of the sheet against the first ring, one edge of the second ring being provided with an inturned flange for supporting the sheet of material.

1,946,862
GROUND TERMINAL
Louis A. Koch, Jr., Louisville, Ky.
Application December 10, 1931
Serial No. 580,147
2 Claims. (Cl. 173—269)



2. In a ground connection, a member constituting a ground and having a flat surface, a plate having its bottom face flat and in continuous contact with the flat surface of the member, a ribbon cable, a tongue integral with the plate and bent to clamp one end of the cable between it and the plate, a bolt extending through the member, plate, cable and tongue, a nut threaded on the bolt, and a lug on the tongue coacting with one member of the bolt and nut to lock the latter against rotation.

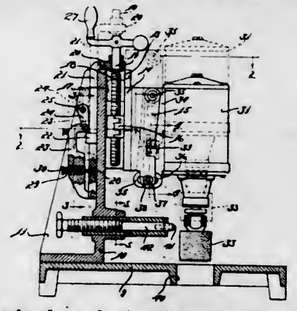
1,946,863
FRIABLE CAUSTIC SODA AND METHOD OF PRODUCING SAME
John W. Koenders, Midland Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 7, 1931
Serial No. 567,524
6 Claims. (Cl. 23—184)

1. Solid caustic soda having a fibrous crystalline structure the crystals of which exhibit a preferred orientation and possess a definite fibre axis as shown by an X-ray diffraction pattern, such caustic soda being characterized by being softer and more easily crushed than the ordinary product.

6. In a method of filling molten caustic soda into a container, the step which consists in adding a relatively small amount of an oil to the container prior to introducing the molten caustic soda thereinto.

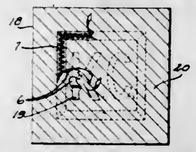
1,946,864
GRINDING MACHINE
Herman F. Koestlin, Detroit, Mich., Orville H. Foster, Jr., and Theodore J. Richter, administrators of said Herman F. Koestlin, deceased
Application March 17, 1930. Serial No. 436,348
6 Claims. (Cl. 51—166)

2. A grinding machine of the class described, comprising: a supporting standard; a grinder; means for mounting said grinder on said standard swingable relatively thereto; and means for moving said mounting means vertically relatively to



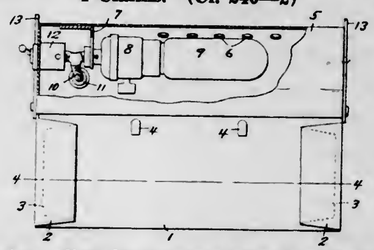
said standard; and a toggle mechanism for simultaneously moving said moving means and said mounting means vertically relatively to said standard.

1,946,865
TRANSFER AND PROCESS OF PREPARING AND APPLYING DESIGNS
Frank Kubin, Wauwatosa, Wis.
Application January 12, 1931. Serial No. 508,085
2 Claims. (Cl. 41—33)



1. The method of decorating a surface, which consists in forming a transfer film upon a backing sheet, rendering said film adherent to the surface to be decorated, coloring said surface and the exposed portion of the backing sheet, and removing the backing sheet whereby to expose said film.

1,946,866
READING LAMP
Fred M. Machold, Pleasantville, N. Y.
Application July 28, 1933. Serial No. 682,710
4 Claims. (Cl. 240—2)



1. A reading lamp comprising a transversely elongated plate engageable with the back of the reading matter, forwardly and inwardly directed flanges integral with the ends of the plate, said flanges terminating in substantially reversely directed resilient tongues engageable with the reading matter for securing the plate in position thereon, an integrally forwardly inclined shade rising from the plate, said shade being co-extensive with the plate, an incandescent lamp mounted in the shade, switch controlled means for sup-

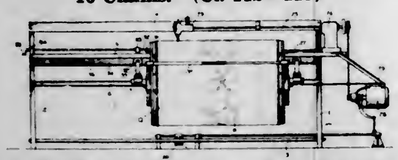
plying electric current to the lamp, and supporting legs pivotally mounted on the ends of the shade, said shade having ventilating openings therein, the shade constituting a reflector for projecting light rays from the incandescent lamp on to the reading matter.

1,946,867
FOUNTAIN SHAVING BRUSH
Isaac S. Mathieu, Rockford, and Frank B. Springer, Loves Park, Ill.
Application November 13, 1931
Serial No. 574,808
15 Claims. (Cl. 15—137)



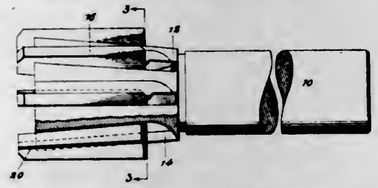
1. In a fountain brush comprising a head carrying a brush into which material is to be dispensed through a passage provided in the head, an adapter on said head at the inlet end of said passage for threaded connection therewith of different sized necks of different containers of material to be dispensed, said adapter comprising a plurality of inter-threaded bushings mounted in the head, said bushings being internally and externally threaded and threaded on one another whereby to provide a plurality of internal threads of different diameters in the different bushings for reception of different sized necks, said bushings being removable from one another to make available for use any particular sized internal thread desired.

1,946,868
SEWING MECHANISM FOR QUILTS AND THE LIKE
Walter H. May, Pelham Manor, N. Y., assignor to Carlin Comforts, Inc., New York, N. Y., a corporation of New York
Application October 20, 1930. Serial No. 489,838
16 Claims. (Cl. 112—118)



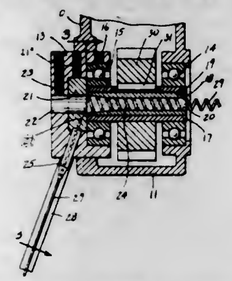
1. In a sewing machine of the character described, a main frame, a central track rail, a quilt supporting frame, means for mounting said quilt supporting frame for free optional rotation and/or longitudinal movement about the track rail, a main beam passing through the quilt frame, and means guided for longitudinal movement on said main beam and connected to the quilt supporting frame to partially support the same.

1,946,869
ROTARY CUTTER
Frank P. Miller, Meadville, Pa., assignor to McCrosky Tool Corporation, Meadville, Pa., a corporation of Pennsylvania
Application September 16, 1930
Serial No. 482,327
11 Claims. (Cl. 77—75.5)



1. In a rotary cutter, a head having a slot, a blade in said slot in advance of the rear end thereof and having a ledge on one side thereof, that portion of the head contiguous to the ledge being pressed into binding engagement with the ledge and into that portion of the slot rearward of the blade for pressure and restraining engagement with the rear end of the blade.

1,946,870
HELICAL SPRING COILING DEVICE
William H. Moon, Muncie, Ind.
Application April 9, 1932. Serial No. 604,214
6 Claims. (Cl. 153—66)

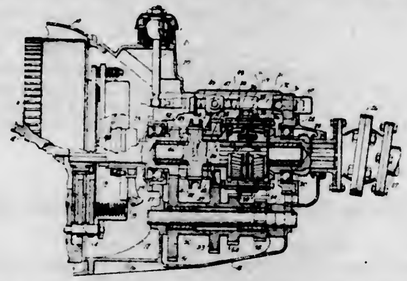


5. A spring coiling device including a mandrel having a larger diameter at one end than at the other, a rotatable sleeve surrounding said mandrel, means for guiding spring wire between said mandrel and sleeve at the large end of said mandrel, and means for rotating said sleeve to wind said wire about said mandrel.

1,946,871
MOTOR VEHICLE TRANSMISSION
Alfred Moorhouse, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application May 14, 1929. Serial No. 362,984
22 Claims. (Cl. 74—57)

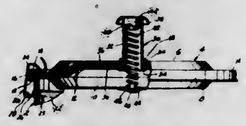
1. In transmission mechanism, the combination of driving, driven and intermediate shafts and a lay shaft, a direct drive coupling between the driving and intermediate shafts, constant mesh gears between the driving and lay shafts, a constant mesh gear connection between the lay and intermediate shafts, a single shiftable gear splined on

the driven shaft for connecting the lay and driven shafts for either forward or reverse driving, and a



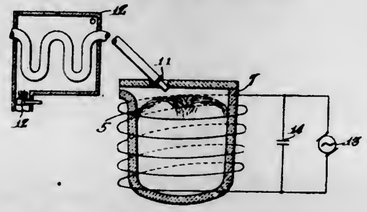
one-way clutch device driving from the intermediate to the driven shaft.

1,946,872
VACUUM CONTAINER
Henry W. Muhleisen, Los Angeles, Calif.
Application October 5, 1931. Serial No. 566,901
6 Claims. (Cl. 99—8)



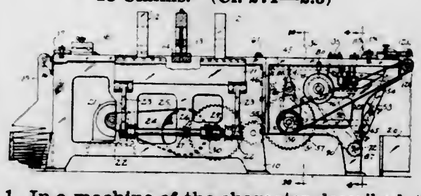
1. In a vacuum container, a plunger therefor, plunger means external of said cover for placing said container under vacuum conditions, means extending through said plunger means and into said cover for opposing the movement of said plunger means, manual means for operating said plunger means, and means for breaking said vacuum conditions.

1,946,873
METHOD FOR MAKING STAINLESS STEEL
Heinrich Neuhauss, Dusseldorf, Germany, assignor to The Ajax Metal Company, Philadelphia, Pa., a corporation of Pennsylvania
Continuation of application Serial No. 306,746, September 18, 1928. This application October 16, 1928. Serial No. 312,758
2 Claims. (Cl. 75—22.5)



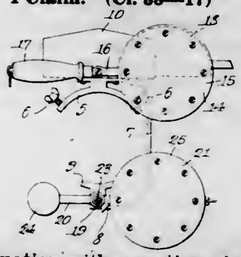
1. The method of making stainless steel from a blast furnace iron having a high chromium content, which consists in electromagnetically superheating the molten metal, in electromagnetically stirring it in vertical planes rapidly to produce a rapid change of metal at the surface of the bath and coincidentally applying preheated air to the surface of the bath while keeping the surface treated free from slag covering, thereby oxidizing carbon without excessive loss of chromium.

1,946,874
PERFORATING MACHINE
Herbert T. Nicholas, Sandusky, Ohio, assignor to The Rotary Printing Company, Norwalk, Ohio, a corporation of Ohio
Application November 18, 1931
Serial No. 575,736
13 Claims. (Cl. 271—2.5)



1. In a machine of the character described, the combination of material pulling mechanism, means for manually adjusting the length of the stroke of the pulling mechanism, and other means for automatically resetting the adjusting means before the completion of the pulling stroke.

1,946,875
MOTION PICTURE APPARATUS
Nicholas A. Nicholson, Johnstown, Pa.
Application January 22, 1930. Serial No. 422,606
1 Claim. (Cl. 88—17)

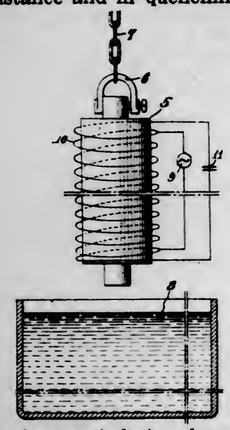


The combination with a motion picture apparatus and the projector tube thereof, of a fire shutter including a bracket embodying a lower gripping member and an upper bracket member, said gripping member and bracket member being curved to conform to the curvature of the projector tube, screws extending through the upper bracket member and engaging the projector tube securing the bracket in position on the projector tube, an arm connecting the bracket member and the gripping member, shafts mounted on the bracket member and gripping member, shutters on the shafts and movable therewith, a housing on the upper bracket member, a magnet within the housing and an armature on the shaft of the upper bracket member and attracted by the magnet operating one of the shutters.

1,946,876
HEAT TREATING METHOD
Edwin Fitch Northrup, Princeton, N. J., assignor to Ajax Electrothermic Corporation, Trenton, N. J., a corporation of New Jersey
Application August 7, 1928. Serial No. 298,101
11 Claims. (Cl. 148—10)

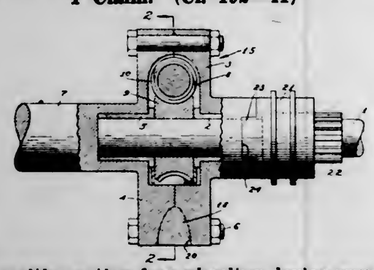
1. The method of controlling the heat gradient preparatory to tempering a charge so as to give maximum hardness at a surface with maximum strength in the adjoining supporting body structure, which consists in delivering the energy into the metal of the charge adjacent its surface at a high rate of heat input in order to heat the surface rapidly in selecting the time element of

heating with respect to conduction of heat within the body to allow the heat to enter to a predetermined distance and in quenching the charge



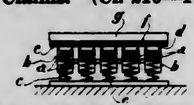
when the heat generated at and near the surface has had time by conduction, normally to travel to the predetermined distance.

1,946,877
FREEWHEELING DEVICE
Frederic W. Parker, Lovelock, Nev.
Application June 29, 1931. Serial No. 547,717
1 Claim. (Cl. 192—41)



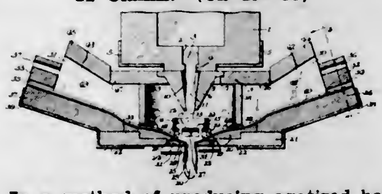
A positive action free wheeling device comprising a rotatable cage composed of two parts, a shaft rotatably mounted in the cage, a worm gear carried by the shaft, worms carried by the cage and meshing with the gear, clutches composed of two parts, one being secured to each worm and the others being carried by the cage, and fastening means for securing the two parts of the cage together, said means also preventing rotation of the clutch parts carried by the cage.

1,946,878
PROCESS AND APPARATUS FOR CONSTRUCTING FABRIC PATTERN CARDS
Auguste Passiani and Albert Chalut, Geneva, Switzerland
Application October 29, 1932, Serial No. 640,324, and in Switzerland November 3, 1931
2 Claims. (Cl. 216—14)



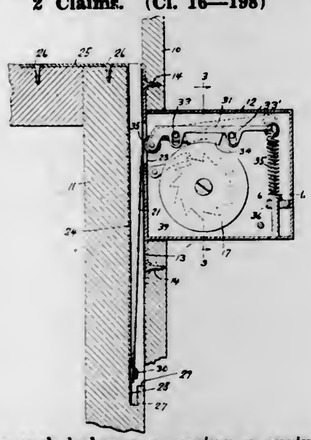
1. A process for the construction of fabric sample cards consisting in placing in contact with the uppermost one of a stack of fabric samples one surface of a sheet of adhesive material, placing the other surface of said sheet in contact with one face of a sheet of cardboard, and superposing on the other surface of said sheet of cardboard a heating and pressing plate, maintaining the cardboard and adhesive sheet between the stack of fabric samples and the heating and pressing plate until the uppermost sample of the stack adheres to said adhesive sheet and until the latter dries, and finally removing said plate and sample card.

1,946,879
MEANS FOR AND METHOD OF MAKING AGATIZED BODIES
Sellers H. Peltier, Ottawa, Ill.
Application February 6, 1931. Serial No. 513,907
11 Claims. (Cl. 49—55)



1. In a method of producing agatized bodies, the steps of forming a pool of molten vitreous material over an orifice, flowing a stream from said pool through said orifice, and supplying a coloring substance to the border of said pool to form colored portions in the surface of said stream.

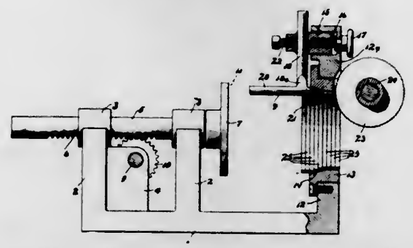
1,946,880
SASH BALANCE
John F. Peterson, New York, N. Y.
Application April 1, 1933. Serial No. 664,009
2 Claims. (Cl. 16—198)



1. In a sash balance, a casing, a spring drum rotatably mounted in the casing and a spring contained in the drum for rotating the same, a tape winding on the drum, a pair of spaced pins mounted between the sides of the casing, a plate supported by said pins and having slotted depending lugs engaged with said pins, said pins serving as fulcrums for the plate, a brake shoe on the under side of the plate intermediate its ends and engageable with the drum for applying a braking action thereto, said plate having depending ears at one end, a roller journalled between said ears over which said tape is trained, a spring engaged at one end with the free end of said

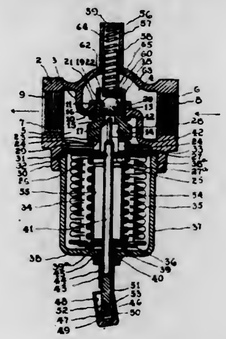
plate, and a spring tensioning device connecting the free end of said spring with the bottom of said casing.

1,946,881
PISTON RING JOINT MILLER
Jay E. Porter, Muskegon, Mich.
Application July 13, 1931, Serial No. 550,349
Renewed July 19, 1933
5 Claims. (Cl. 90—11)



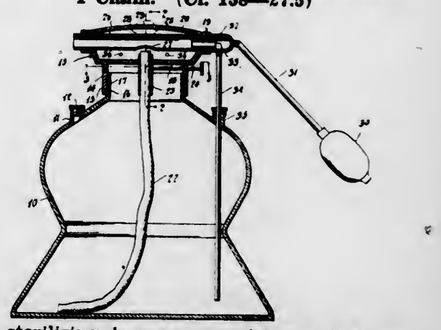
1. In a construction of the class described, a guide sleeve having an outwardly enlarged and tapered entrance end for receiving parted piston rings, a ring carrier located adjacent said sleeve for carrying a plurality of parted piston rings thereon with the partings of all of the said rings in alinement, means for forcing the rings to and through said guide sleeve, and a driven cutter mounted adjacent the outer end of said sleeve in alinement with the partings in said rings operating to finish said rings at said partings as the same are forced to the cutter.

1,946,882
VALVE
Philip Sherman Russel, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application September 6, 1928. Serial No. 304,200
11 Claims. (Cl. 50—4)



1. A valve comprising a hollow casing having an inlet port and an outlet port, a partition within said casing between said ports, said partition having a valve port, a valve adapted to close said port, said casing being open at one side of said partition, resilient means sealing the open side of said casing, valve opening means carried by said resilient means and adapted upon inward movement to open said valve, and means normally locking said valve opening means against inward valve opening movement.

1,946,883
TOOL STERILIZER
Joe Russo, Cleveland, Ohio
Application April 9, 1931. Serial No. 528,882
1 Claim. (Cl. 158—27.5)



A sterilizing burner comprising a fuel container having an open top and a burner head secured thereon, said burner head comprising a chambered member, the bottom wall of which forms a closure for the fuel container and has a wick carrying means therein, a wick secured in said means and extending from a point in said chamber downwardly into the container, an open ended tube extending through said chamber and having an aperture in its lower wall portion immediately above said wick, and an atomizing fuel pump operatively associated with said fuel container and secured to said head with its discharge nozzle in axial connection with one end of said tube to direct a stream of atomized fuel and air therethrough, said chamber having its top and side walls apertured to provide a combustion chamber for the wick flame.

1,946,884
SOAP HOLDER
Robbins S. Rutherford, New York, N. Y.
Application January 13, 1933. Serial No. 651,561
5 Claims. (Cl. 45—28)

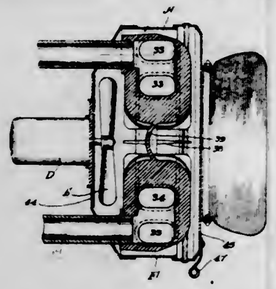


1. In combination, a liquid container having an open top, a boundary flange therefor; an endless wire member conforming in shape with said flange at the inner portion thereof; cooperating spaced wires of relatively small diameter disposed in the top opening for supporting a tablet of soap after use thereof, said wires having their ends engaged on and extending below said member whereby to space the latter from said flange, so that liquid descending from the soap or from the hand of a user to said flange may flow into the container.

1,946,885
INTERNAL COMBUSTION ENGINE EXHAUST HEATER
Carl A. Schmidt and Avon B. Ashton, St. Paul, Minn., assignors to Ashco Corporation, St. Paul, Minn., a corporation of Minnesota
Application July 7, 1930. Serial No. 466,182
17 Claims. (Cl. 257—137)

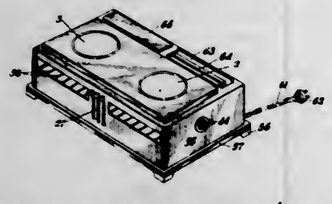
1. An exhaust gas radiator for automobiles including, a circular body having circular passageways formed therethrough, an intake opening and an exhaust opening in said circular body, a series of radially extending heat dispensing

flanges, an axially disposed baffle extending at right angles to the plane of said flanges, and a casing surrounding said radiator and spaced



therefrom to provide an air passageway thereabout through which a draft of air may be passed for heating an automobile.

1,946,886
ELECTRIC HEATING UNIT
August F. Schramm, Jr., New York, N. Y.
Application March 13, 1930, Serial No. 435,396
Renewed July 19, 1932
20 Claims. (Cl. 219—20)



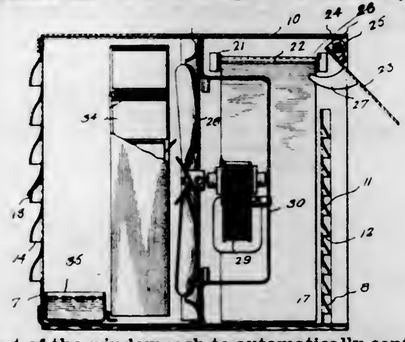
1. The combination of a plurality of resistance elements, a switch mechanism having a plurality of positions which in one position connects a resistance element across the line and breaks the circuit to the succeeding element and in another position breaks the circuit to said first resistance element and completes the line circuit to the succeeding element, and a timing mechanism adapted to operate the switch mechanism after a predetermined interval of time.

5. The combination of a plurality of resistance elements, a line circuit, an element circuit for each element, an individually adjustable timing device for each element, each timing device except the last one being adapted to cut its element out of the circuit and complete the line circuit to the succeeding element after a predetermined interval of time.

13. The combination of a plurality of heating elements with individually adjustable time controls for each except the last one, arranged so that no more than one element is in circuit at one time, and so that when the time control of one puts it out of circuit, it begins the timing period of the next element.

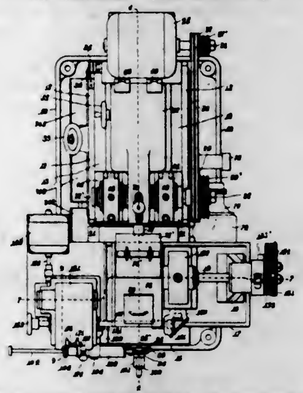
1,946,887
VENTILATOR
George H. Sipe, Philadelphia, Pa.
Application June 29, 1932. Serial No. 619,933
9 Claims. (Cl. 98—94)

1. In combination with a window sash, a ventilator having a plurality of inlet louvers at one end thereof and a damper operatively connected to said window sash to be operated in the move-



ment of the window sash to automatically control the amount of air passing through said louvers.

1,946,888
MACHINE FOR DRESSING EMERY HOBS
Emile E. Tougas, Wollaston, and Martin T. Schumb, Milton, Mass., assignors to Boston Gear Works, Inc., Quincy, Mass., a corporation of Massachusetts
Application July 7, 1930. Serial No. 466,026
20 Claims. (Cl. 125—11)

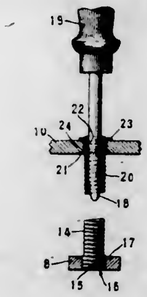


1. In a machine of the class described provided with stationary bearings for a revoluble shaft to which is secured a disk of abrasive material having a formed periphery; a supporting table on which is mounted a revoluble grinding hob adapted to be operated upon by said disk; means for moving said table in a path parallel with said shaft; a support for said table; a screw for moving said support to position said hob in contact with said disk; a ratchet on said screw; a pawl engaging said ratchet; a plunger for actuating said pawl; a piston on said plunger; a cylinder in which said piston is positioned; and means for admitting compressed air to said cylinder behind said piston.

1,946,889
ELECTRICAL CONNECTER
Howard H. Wessel, New Britain, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application May 2, 1931. Serial No. 534,477
5 Claims. (Cl. 173—324)

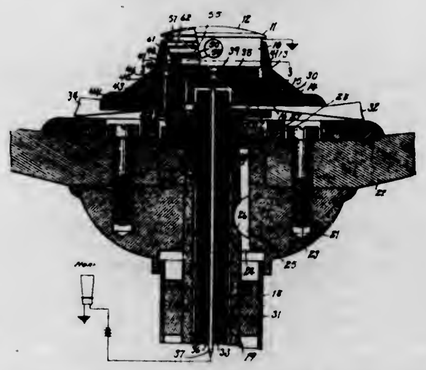
2. A plug board construction including a conducting bar, a helical spring sleeve having its

front end secured in said bar and having its rear end projecting rearwardly of said bar and resilient laterally and an electric socket supported



in the rear of said spring and spaced apart therefrom, said spring sleeve and socket being adapted to be electrically connected by a plug connecter inserted through the sleeve into said socket.

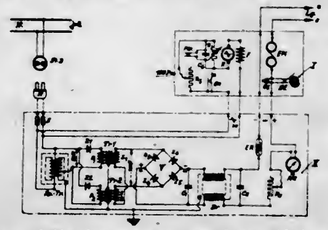
1,946,890
CLOCK-MECHANISM FOR AUTOMOBILES AND THE LIKE
Richard H. Whitehead and Wilson E. Porter, New Haven, Conn., assignors to The New Haven Clock Company, New Haven, Conn., a corporation
Application December 4, 1930. Serial No. 499,983
8 Claims. (Cl. 58—46)



1. The combination with the steering-apparatus of an automobile or the like; of a spring-driven clock; and a winding-connection between the said steering-apparatus and the said clock; whereby the winding of the latter will be automatically effected as an incident to steering.

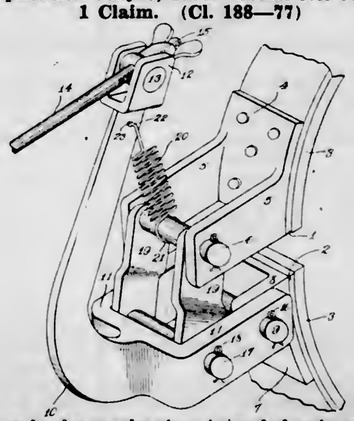
1,946,891
EQUIPMENT FOR SUPPLYING CURRENT IMPULSES
Max Amann, Frankfort-on-the-Main, Germany
Application July 8, 1932. Serial No. 621,503, and in Germany July 8, 1931
8 Claims. (Cl. 178—2)

1. An impulse apparatus, comprising in combination with alternating current conductor mains, a driving motor adapted to be connected directly with said mains, means for multiplying the frequency of the current from said mains, and means for rectifying the current after the multi-



plication of its frequency; said rectifying means producing direct current for the impulses.

1,946,892
BRAKE MECHANISM
Harold B. Benson, Brooklyn, N. Y.
Application May 5, 1933. Serial No. 669,494
1 Claim. (Cl. 188—77)

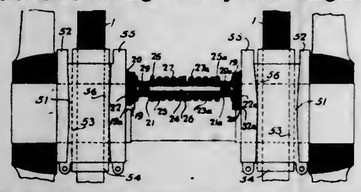


In a brake mechanism intended primarily for a truck jack shaft, a brake rod and a split brake band having upper and lower lugs carried by the respective ends of the brake band and projecting rigidly outwardly in substantially parallel relation beyond the circumference of the brake band with the upper lug longer than the lower lug, in combination with a pivot pin carried by the upper lug, links pivoted on and depending from said pin, a fulcrum pin supported by the lower end of said links, said links being free and unrestricted between the pins, a lever having a forked end straddling said links and perforated to receive the opposite ends of the fulcrum pin, a pin extending through the lower lug and through the forked end of the lever to pivotally attach said forked end of the lever to the lower portion of the brake band, and said lever having a relatively long power arm projecting in a direction substantially perpendicular to the forked end thereof and pivotally connected to the brake rod, and a tension spring stretched between the power arm of the lever and the upper lug to normally hold the brake band in non-breaking position.

1,946,893
LATERAL MOTION CUSHIONING DEVICE
James G. Blunt, Schenectady, N. Y.
Application January 30, 1932. Serial No. 589,807
14 Claims. (Cl. 105—80)

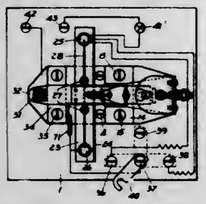
1. A lateral motion resisting device for railway vehicles comprising a pair of aligned thrust elements having longitudinal bores; a guide shaft

extending into said bores and having a washer disposed thereon, centrally thereof, between said thrust elements, said shaft permitting relative movement of said elements axially thereof, and said elements having radially extending flanges



formed thereon inwardly spaced from their outer ends; and a pair of helical springs one disposed around each of said thrust elements, said springs bearing at their inner ends against said washer and at their outer ends against the flanges of their respective thrust elements.

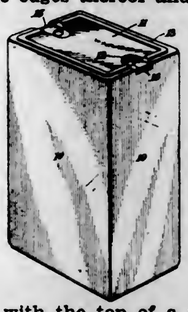
1,946,894
ELECTRICAL CURRENT RESPONSIVE DEVICE
Ivar W. Brogger, West Orange, N. J., assignor to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application May 14, 1932. Serial No. 611,426
15 Claims. (Cl. 200—113)



1. An electric current responsive device including; a base, a bracket carried by the base, a magnet fastened to the bracket, a member of magnetic material flexibly attached intermediate its ends to one end of the magnet, a screw of magnetic material fastened by a nut of magnetic material in one end of the magnet and extending through a clearance hole in said member of magnetic material, at least a second nut of magnetic material positioned on said screw on the side of said member opposite to the first-mentioned nut, a contact carried by said member, a cooperating contact carried by said bracket a support carried by the bracket, an element responsive to the passage of current therethrough attached to opposite ends of said support, means for anchoring said element at its center to said member of magnetic material, and a biasing spring carried by an arm on said bracket and having one end attached to said member of magnetic material at least near where said anchoring means is attached thereto.

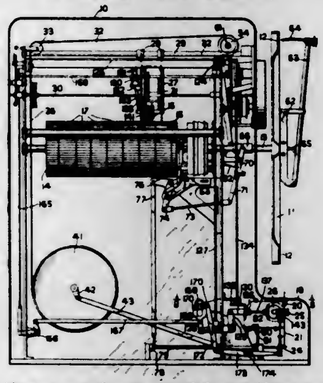
1,946,895
HOLDER
William F. C. Brooker, Paramus, N. J., assignor to Enoch Morgan's Sons Co., New York, N. Y., a corporation of New York
Application May 3, 1933. Serial No. 669,093
3 Claims. (Cl. 221—61)

1. A holder for a package of cleaning powder or the like comprising a rigid casing of substantially the same interior cross-sectional dimensions as the exterior cross-sectional dimensions as the package, said package being yieldable whereby a friction fit exists between said casing and package, and recesses in the top of the casing leading to the edges thereof and being adapted



to cooperate with the top of a package in the casing to form delivery channels.

1,946,896
TIME RECORDER
James W. Bryce, Bloomfield, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 16, 1928. Serial No. 254,795
7 Claims. (Cl. 234—43)

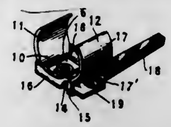


1. A time recorder comprising a time controlled printing device, mechanism for loosely insertably receiving and removably supporting without bending flat record cards each individual to a single workman, each card having a plurality of successively disposed "in and out" columns in position to receive an imprint from said printing device, means for effecting relative movement of said printing device and a record card to print a registration on said card, means extraneous of the record card supporting mechanism and operated by said first-named means for locating said registration in the proper "in and out" column of the record card, said means preventing registration in the same "in and out" column of the record card upon a succeeding operation of said first-named means.

1,946,897
ELECTRIC FUSE CLAMP
John E. Carlson, Forestville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application May 20, 1932. Serial No. 612,428
4 Claims. (Cl. 200—134)

1. A fuse clamp comprising a base portion, an integral stationary jaw projecting from one side

of the base, a movable jaw hinged to the other side of the base and a cam rotatably carried by



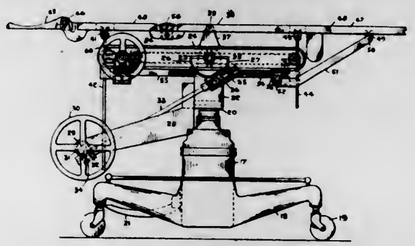
the hinged jaw to engage the base and having a finger lever extending parallel with the clamp for forcing said hinged jaw toward the other jaw.

1,946,898
FUSE CLAMP
John E. Carlson, Forestville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application May 20, 1932. Serial No. 612,429
5 Claims. (Cl. 200—134)



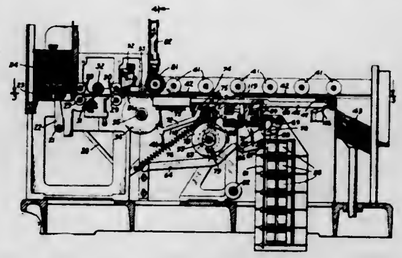
1. A fuse clamp comprising a base portion having a fuse holding contact jaw integrally connected therewith, a movable jaw hinged to said base and a screw coacting with a part of the hinged jaw for forcibly tilting and clamping the movable jaw against the terminal of a fuse.

1,946,899
PEDESTAL BASE OPERATING TABLE
Josiah S. Ciachko, Springfield, N. Y., assignor, by mesne assignments, to American Sterilizer Company, Erie, Pa., a corporation of Pennsylvania
Application June 17, 1930. Serial No. 461,667
13 Claims. (Cl. 45—50)



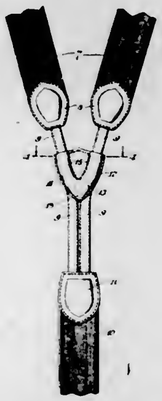
1. In a pedestal base operating table the combination of a base having legs mounted on casters, a plunger shaft mounted therein under foot pedal control, a yoke mounted on the upper end of said shaft, a pair of frames pivoted on said yoke, and connected by shafts so that they move together, a semi-circular gear mounted on one of said frames, a hand wheel connected through a shaft and gears to said semi-circular gear, a sectional operating table top pivotally mounted on said frames, a second hand wheel mounted on said frames on a shaft and connected through intermeshing gears, shafts, pinions, rack bars and a chain to operate said sectional top to all operating positions.

1,946,900
ELECTRIC INTERPRETER
George F. Daly, Johnson City, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 22, 1930. Serial No. 438,092
12 Claims. (Cl. 101—93)



1. A printing apparatus comprising means for successively feeding a series of perforated cards having index points in a column, means for successively reading the index points of a column in each passing card, means for printing corresponding printed records on each passing card indicative of the perforations therein and means for suppressing at will the printing of records from certain index point positions in a card column while printing from other index point positions in the same card column.

1,946,901
SUSPENDERS
James T. Duffy, Jr., Wynnewood, Pa., assignor to Pioneer Suspender Company, a corporation of Pennsylvania
Application May 10, 1933. Serial No. 670,231
5 Claims. (Cl. 241—22)



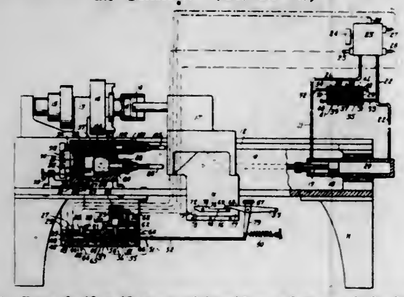
1. A suspender comprising a pair of shoulder straps, a single vertical back strap, a pair of relatively narrow flat straps, each connected to a shoulder strap, and both connected at their other ends to the single back strap and a flat sliding formation comprising layers of flexible material having channels formed therein with parallel margins, to provide passages for the narrow flat straps.

1,946,902

HYDRAULIC FEED MECHANISM

Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

Application April 5, 1926. Serial No. 99,800
12 Claims. (Cl. 82—2)



1. In a lathe the combination of a work holder, a tool carrier movable toward and from the work, driving means therefor, means controlled by said carrier for controlling said driving means to normally regulate the speed and direction of movement of said carrier, means for opposing said driving means to retard the advance of said carrier adjacent the end of its movement toward the work, and means controlled by the advance of said carrier for varying the effectiveness of said retarding means.

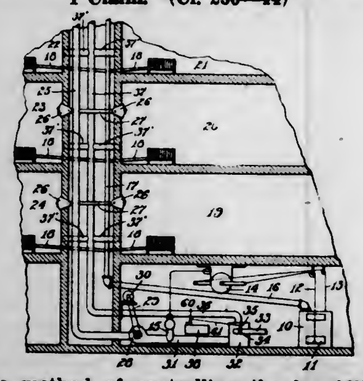
12. In a machine tool or the like the combination of members for supporting the work and tool, hydraulically actuated means for advancing and retracting one of said members at controlled rates relative to said other member, means opposing said means to retard the advance of said driven member, means automatically operable to regulate said opposing means to vary the effect thereof on said advancing means, and a positive stop for accurately limiting said advance.

1,946,903

HUMIDITY AND TEMPERATURE CONTROL

George H. Fisher, Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Wabash, Ind., a corporation of Delaware

Application October 23, 1930. Serial No. 490,580
1 Claim. (Cl. 236—44)



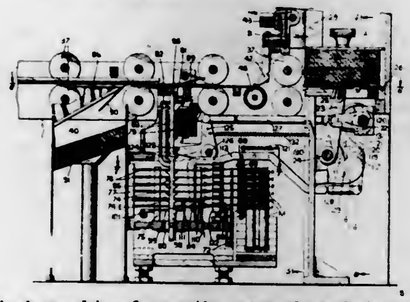
The method of controlling the humidity of the atmosphere of a plurality of chambers which consists in passing a flow of air through humidifying apparatus to all of said chambers, preparing a mixture of quantities of air from said chambers by drawing greater quantities from chambers of optimum temperature than from warmer or cooler chambers, and controlling the flow of water to said humidifying apparatus in accordance with the humidity of such mixture.

1,946,904

COMBINATIONAL INDEX POINT SORTER

Eugene A. Ford, Scarsdale, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application April 29, 1927. Serial No. 187,511
34 Claims. (Cl. 209—110)



4. A machine for sorting record cards bearing combinational index point designations comprising an analyzing device, a plurality of guides for leading said cards to their several destinations, members for controlling the opening of said guides, and magnetic devices controlled by said analyzing device for controlling said members, each of said magnetic devices including an armature normally latched to only one of said members and releasable to permit movement of said member.

6. A sorting machine for record cards having a plurality of designation fields each field comprising a plurality of columns and each column a plurality of index point positions, electrical analyzing means for successively searching the index point positions of successive columns of different fields, a distributing mechanism and magnetic controlling means therefor including a plurality of magnetic elements one being provided for each index point position of one column of one field, means to connect said magnetic elements with said analyzing means in accord with searching of successive index point positions of one field by said analyzing means and means to selectively adjust said connecting means to make it responsive to only one field of said record card.

1,946,905

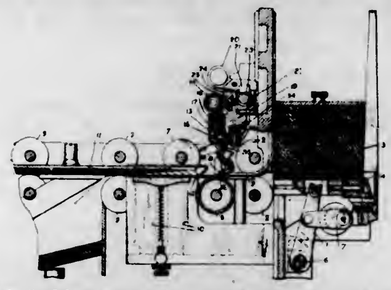
BRUSH HOLDER FOR SORTING MACHINES

Eugene A. Ford, Scarsdale, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application September 24, 1928
Serial No. 307,823
3 Claims. (Cl. 200—166)

1. An analyzing mechanism for a record controlled machine comprising a holder having an analyzing brush mounted thereon, a support for said brush holder and means for adjustably mounting said brush holder to said support, a second supporting member for holding said brush holder support comprising a member having pocket-like portions at the lower edge for receiving the brush holder support and bifurcated projections at the upper end and latching members

on the brush holder support adapted to cooperate with said projections to releasably secure said



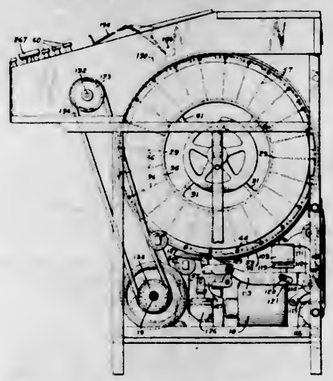
brush holder support to said second supporting member.

1,946,906

SORTING MACHINE OF THE MANUAL CONTROL TYPE

Frederick L. Fuller, West Orange, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Original application October 21, 1930, Serial No. 490,155. Divided and this application February 6, 1932, Serial No. 591,275, and in Canada September 25, 1931
41 Claims. (Cl. 214—11)



1. A machine of the class described comprising in combination, a rotatable drum, a plurality of radially arranged sorting compartments in said drum, a corresponding number of selecting keys, means independent of the keys for rotating said drum, manually controlled means for feeding material to the selected compartment, and means under control of said keys for causing the differential rotation of said drum to bring the selected compartment into association with the feeding means.

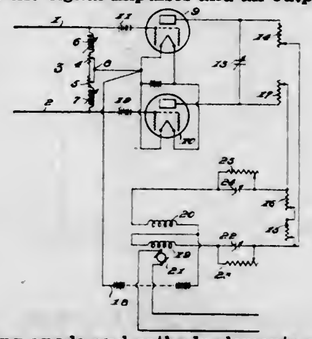
1,946,907

SYSTEM FOR REPEATING OR RELAYING TELEGRAPH SIGNALS

Hakon H. Haglund, Flushing, and Ronald V. Morgenstern, Irvington, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application February 28, 1931. Serial No. 519,206
5 Claims. (Cl. 178—70)

1. In a signaling system, an input circuit, an output circuit, a repeater element comprising a dynamo having an armature connected to the output circuit and a field winding associated with the input circuit, means including an electrostatically controlled gas discharge tube having an input circuit including a grid element connected to receive the signal impulses and an output circuit



including anode and cathode elements connected and arranged to energize said field winding in accordance with incoming signals, said grid, anode and cathode elements being so constructed and arranged that the output circuit is unaffected by the grid potential after being started

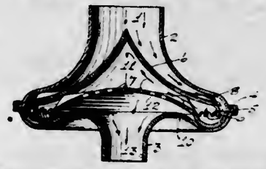
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1,946,908

MUFFLER FOR INTERNAL COMBUSTION ENGINES

Soren S. Hanson, Brooklyn, N. Y.

Application September 16, 1931
Serial No. 563,071
5 Claims. (Cl. 137—160)



3. A muffler comprising opposed connected casing members, one being a frusto-conical inlet member having an axial inlet and the second being an outlet member having an axial outlet and an inner annular marginal concave area, a deflecting cone within the casing and having its apex directed toward the inlet and provided with a series of short marginal vanes contacting with the inlet member of the casing and a disc perforated with a plurality of perforations said disk being disposed within the casing below the cone and provided with short upwardly directed marginal vanes in contact with the inner wall of the cone, and means securing the inlet and outlet casing members together and thereby holding the cone and the perforated disk in separated relationship, the cone vanes contacting with the inlet casing member at the margin of the latter, and the cone being supported upon the vanes of the disk.

1,946,909

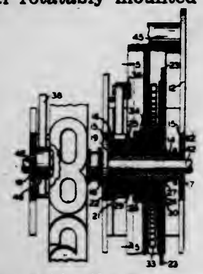
STOCK QUOTATION BOARD

Ray Hoover and Evan R. Wheeler, New York, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application April 3, 1931. Serial No. 527,588
28 Claims. (Cl. 178—24)

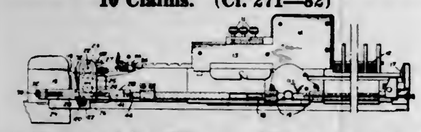
1. An integral type wheel unit comprising a framework embodying a side, a hollow shaft sup-

ported at one end in the side of the framework, a type wheel rotatably mounted on said shaft,



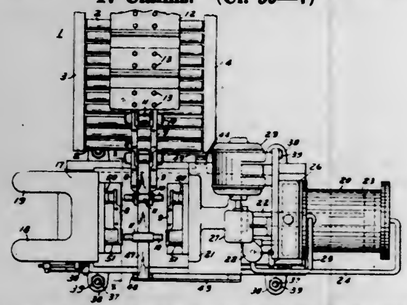
and means carried by the framework for rotating said type wheel into printing position.

1,946,910
CARD HANDLING MACHINE
Clair D. Lake, Binghamton, and Paul Shores, Johnston City, N. Y., assignors, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 23, 1932. Serial No. 618,846
10 Claims. (Cl. 271—82)



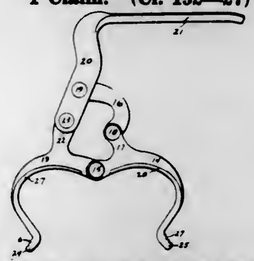
1. In a card handling machine, a pair of card receptacles, a carriage for feeding record cards, gripping means controlled by said carriage and adapted to remove a card from said carriage and deposit it in one of said receptacles and further means coordinated with said gripping means for advancing the card to the second receptacle.

1,946,911
METHOD OF AND APPARATUS FOR ASSEMBLING CHAIN STRUCTURES
Ivar F. Lindberg, West Allis, Wis., and William E. Yunker, Springfield, Ill., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 11, 1931. Serial No. 536,328
17 Claims. (Cl. 59—7)



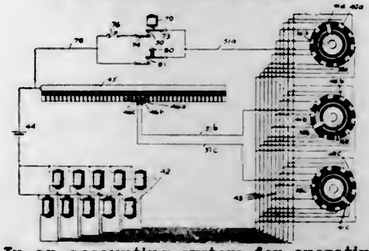
1. In combination, a structure providing a longitudinally extending support for a series of interconnected chain links, a device for joining another link to said series of chain links by pressing two opposite side members upon the ends of a hinge pin embraced by a bushing at the end of said series of chain links, and means permitting said structure and said device to reciprocate relative to each other in the direction in which said side members are moved relative to each other by said device in order to press them upon the ends of said hinge pin.

1,946,912
TIRE TOOL
Milton Miles Lory, Sioux City, Iowa
Application February 12, 1932. Serial No. 592,513
1 Claim. (Cl. 152—27)



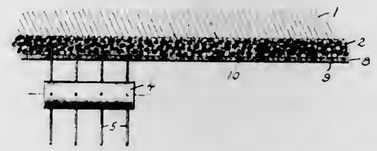
In a tire tool, means for spreading a tire casing comprising a pair of arcuate members pivotally connected and including outwardly extending lips at their lower portions, levered means for causing outward and inward movement of the arcuate members, said levered means including an arm and an arc-shaped link, the arm being pivotally connected to one of the arcuate members and the link to the other, the arm and the link being pivotally connected together with the arc-shaped link adapted to receive the pivotal connection between the arm and the arcuate member causing locking of the tool when fully opened, and a lengthened integral arm substantially at right angles to the arm.

1,946,913
AUTOMATIC PUNCHING MACHINE
Michael Maul, Berlin, Germany, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 16, 1928, Serial No. 285,809, and in Germany February 28, 1928
10 Claims. (Cl. 235—92)



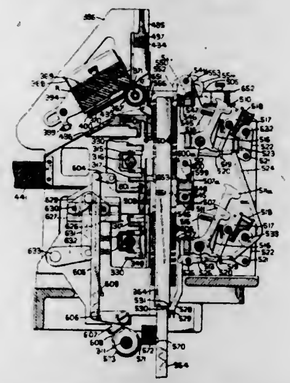
9. In an accounting system for operating on groups of records bearing items; the combination of a column of punch pins, dies therefor, a device for feeding a control card to position an allocated column thereof between the punch pins and dies with each of the index point positions of the card column opposite a corresponding punch pin of the punch pin column, punch selecting means automatically controlled in accordance with the resultant of items on a group of said records for selecting punch pins for operation, and group-change sensing means for rendering the punch selecting means operative to select the punch pins only upon a group change in the records.

1,946,914
SOUND ABSORBING AND INSULATING COMPOSITION
Gustave Adolphe New, Lakewood, Ohio, assignor, by mesne assignments, to National Gypsum Company, Buffalo, N. Y., a corporation of Delaware
Application March 30, 1931. Serial No. 526,574
3 Claims. (Cl. 72—17)



3. A sound absorbing wall including a layer of a cementitious material, asbestos and mineral wool, and a second layer comprising Portland cement, mineral fibre and aluminum stearate.

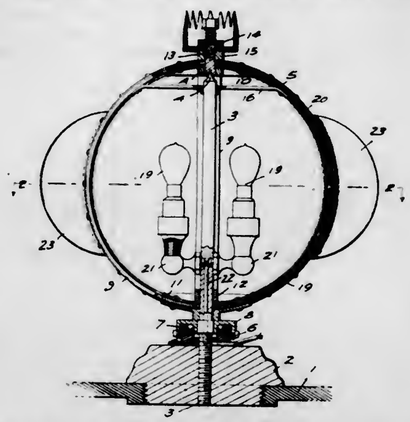
1,946,915
PERFORATED RECORD-CONTROLLED ACCOUNTING MACHINE
John Royden Peirce, New York, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 27, 1929
Serial No. 410,057
47 Claims. (Cl. 101—93)



1. In a billing machine, means for reading debit and credit amounts in a perforated record card, means for ascertaining the relative values of such amounts and means for stopping the machine when the credit amount is greater than the debit amount.

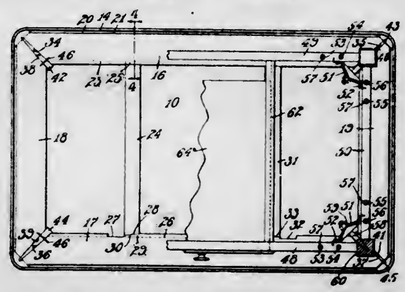
1,946,916
ILLUMINATOR FOR AUTOMOBILES
Columbus Rizzo, Detroit, Mich.
Application August 25, 1932. Serial No. 630,415
4 Claims. (Cl. 240—8.11)

1. In an illuminator for vehicles comprising a base mounted on said vehicle, a spindle mounted on said base, a sleeve mounted on said spindle, a frame mounted on said sleeve, a hollow globular light transmitting body mounted on said frame, wind vanes carried on said body, a plurality of brackets mounted on said spindle, a plurality of electric lamps respectively carried on said brackets, means for carrying an electric current from the exterior to the interior



of said body, and means hingedly mounted to provide access to the interior of said body.

1,946,917
FURNITURE CONSTRUCTION
Taylor W. Ross, Madison, Ind., assignor to Thomas Graham & Co. Inc., Madison, Ind., a corporation of Indiana
Application June 22, 1931. Serial No. 545,975
8 Claims. (Cl. 45—31)

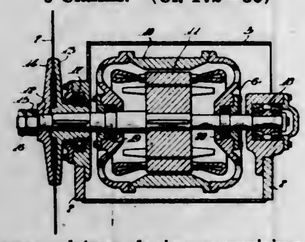


1. The combination of a metal table top provided with a pair of parallel inwardly-opening grooves adjacent its opposite edges, a pair of rails entered in said grooves, and a cross-brace cooperating with said rails, said brace being formed with a cam face spaced inwardly from one end thereof, and one of said rails being formed with a cooperating wedging cam face.

1,946,918
HYDROGENATION OF CO TO METHYL FORMATE AND METHANOL IN LIQUID PHASE WITH ALCOHOLATE CATALYSTS
Norman D. Scott, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application May 13, 1932. Serial No. 611,237
12 Claims. (Cl. 260—106)

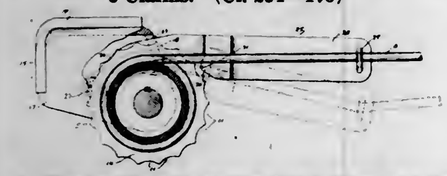
1. Method of hydrogenation of CO which comprises absorbing carbon monoxide and hydrogen in an alcohol solution containing a plurality of alcoholates, one of said alcoholates being that of an alkali-forming metal.

1,946,919
CUTTING MACHINE
John A. Smitmans, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1932. Serial No. 624,009
6 Claims. (Cl. 172—36)



1. A power-driven device comprising an electric motor having a stator and a rotor provided with a shaft extending through said stator, means comprising bearings for rotatably supporting said shaft, bearings for supporting said stator upon the rotor shaft, means for rigidly preventing rotation of said stator while freely permitting transverse movement thereof, and a driven element rigidly secured to said rotor shaft.

1,946,920
MEANS FOR CONTROLLING THE SLACK OF CABLES
Frank E. Stahl, Tonawanda, N. Y., assignor to Columbus McKinnon Chain Company, Tonawanda, N. Y., a corporation of New York
Application June 23, 1933. Serial No. 677,298
5 Claims. (Cl. 254—175)



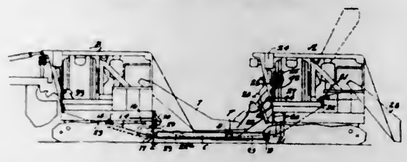
1. The combination with a hoist drum and the cable thereof, of means for controlling the slack of such cable comprising a fluted flange carried by and rotatable with the drum, pivotally mounted cam means engageable with the flutes of the flange, and means carried by the cam means for engagement with the cable, whereby when fullness occurs in the cable, the cam will operate to lock the drum.

1,946,921
MEANS OF PREVENTING SPINNING IN AIRCRAFT
Edward A. Stalker, Ann Arbor, Mich.
Application February 16, 1931. Serial No. 515,961
10 Claims. (Cl. 244—12)



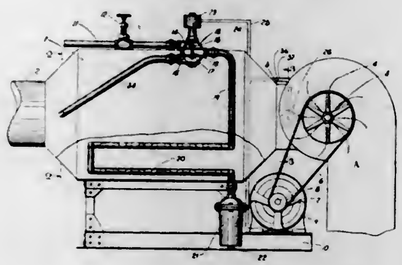
3. In combination in an aircraft, a wing possessing a perforated surface and subdivided into spanwise compartments, a pumping means driven by a prime mover, means of communication between the pumping means and the compartments, automatic means to seal the compartments from each other when the pumping means fails to function.

1,946,922
TIE MEMBER FOR TANDEM PAVERS
Emil L. Tranaas, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation
Application September 11, 1931
Serial No. 562,402
4 Claims. (Cl. 83—73)



1. A concrete mixing apparatus comprising a combination of a plurality of pavers arranged in tandem, mixing, charging and discharging instrumentalities for each paver and operating connections between the charging and discharging instrumentalities of the pavers, a tie member for pivotally connecting the pavers together in spaced relation, said tie member constituting supporting means for one of the charging instrumentalities, and a housing for the operating connections.

1,946,923
DRYING OVEN
Carl C. Wilcox, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of New Jersey
Application October 27, 1930. Serial No. 491,520
13 Claims. (Cl. 34—18)

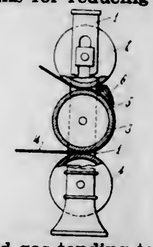


1. A proces for eliminating fire hazards in the drying of highly combustible materials comprising heating a heating chamber for a drying oven by indirect heat exchange with a heating fluid, circulating air through the heating chamber, and introducing into the heating chamber upon failure of proper air circulation, the fluid from said heat exchange which will create in the heating chamber an atmosphere which will not support combustion.

1,946,924
CALIPERING MECHANISM
Albert Allen, Winchester, and John G. Callan, Cambridge, Mass., assignors to Atlantic Precision Instrument Company, Boston, Mass., a corporation of Massachusetts
Application February 18, 1928. Serial No. 255,364
9 Claims. (Cl. 33—125)

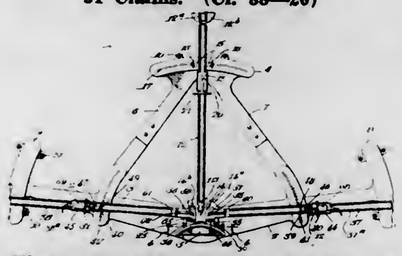
6. A calipering element having a face formed to lie closely against a surface of material to be calipered, said element having a perforation therethrough through which a gas under pressure may be introduced between said face and surface, and means for reducing the component

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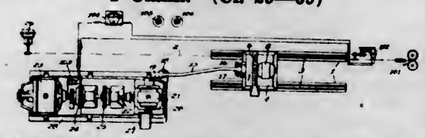
of pressure of said gas tending to drive said element and material away from each other.

1,946,925
CLINICAL OPTICAL MENSURATION INSTRUMENT
Adelbert Ames, Jr., Hanover, N. H., assignor to trustees of Dartmouth College, Hanover, N. H., a corporation of New Hampshire
Application April 23, 1928, Serial No. 272,027
Renewed October 14, 1933
31 Claims. (Cl. 88—20)



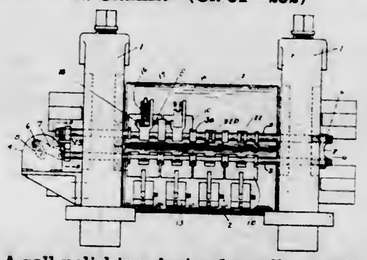
1. The combination in a clinical optical mensuration device, of light transmitting plane reflectors with means for positioning a visual object at a convergence point for the eyes of a subject, means for positioning a reflector in the line of vision of each eye, a bright-point object positioned for superposition of its ocular image by reflection on the ocular image of said visual object, and means for measuring the distance by reflection of said bright-point object in relation to the principal points of the eyes and the angular position thereof in relation to the center of rotation of each eye.

1,946,926
FLYING SAW
James M. Barton, Butler, Pa., assignor to Fretz-Moon Tube Company, Inc., Butler, Pa., a corporation of Pennsylvania
Application February 24, 1931. Serial No. 517,852
1 Claim. (Cl. 29—69)



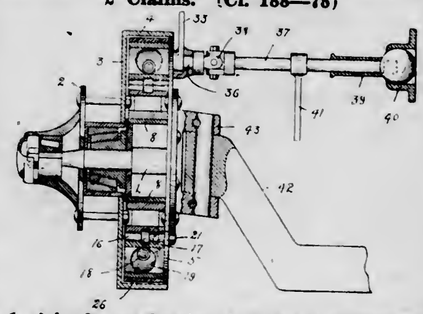
A flying saw comprising a carriage, a motor for moving the carriage, a magnetic clutch disposed to connect the motor to the carriage, a magnetic brake connected to stop the carriage, a tubing guide disposed parallel to the direction of motion of the carriage, means for indicating the relative speeds of the carriage and of tubing in the guide, means for regulating the motor to synchronize the carriage with the tubing, a saw pivotally mounted on the carriage, means for tilting the saw into cutting engagement with the tubing, and a control system coordinated with the carriage-moving means for releasing the brake and engaging the clutch to cause the carriage to move and the saw to cut the tubing, said control system operating to so actuate the saw that the tubing is cut to predetermined lengths.

1,946,927
ROLL POLISHING MECHANISM
Howard W. Bradley and Paul H. Long, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application February 18, 1932. Serial No. 593,828
12 Claims. (Cl. 51—252)



1. A roll polishing device for rolling mills comprising a plurality of abrasive blocks, one face thereof adapted to engage a roll, independent means for holding each of the said blocks against the roll with an independently adjustable yielding pressure, and means for reciprocating the blocks relative to the roll.

1,946,928
BRAKE MECHANISM
William R. Brewer, Duluth, Minn.
Application January 24, 1931. Serial No. 511,015
2 Claims. (Cl. 188—78)

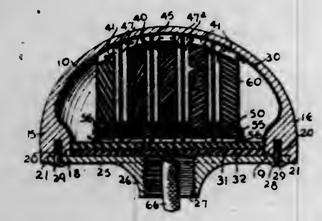


1. A brake mechanism for vehicle wheels, comprising a brake drum, expandable brake shoe segments within the drum, a collar within said segments, said segments having central aligned longitudinal recesses therein and a plurality of spaced inclined planes thereupon and said collar having a central longitudinal recess therein, and roller means having an enlarged central portion registrable within said recesses for expanding said segments by traversing said planes.

1,946,929
PUFF-IRON
Ida Chapatte, Buffalo, N. Y.
Application August 5, 1932. Serial No. 627,638
5 Claims. (Cl. 219—21)

1. In a puff-iron, a casing providing a chamber, a pair of spaced apart upright supports within said chamber of electrical insulating material,

said supports provided with transverse air passageways at their upper and lower edges, a sheet of insulating material between the confronting faces of said supports and spaced apart from each providing a pair of air passageways between the confronting faces of said supports, electrical in-

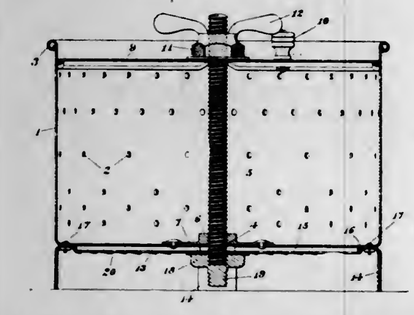


sulating means holding said sheets and supports spaced apart, said means located above the passageways at the lower edges of said supports, and an electrical resistance element carried on the exterior of said supports and passing through said passageways.

1,946,930

CULINARY UTENSIL

Anna S. Charlebois, Toronto, Ontario, Canada
Application June 25, 1931, Serial No. 546,721, and in Canada June 26, 1930. Renewed July 7, 1933
2 Claims. (Cl. 146—177)



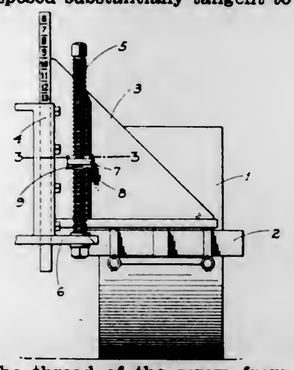
1. In a culinary utensil, in combination, a vessel having perforations throughout its surface, a substantially cross-shaped base removably secured to the bottom of said vessel, the arms of said base being serrated to provide grating surfaces, an upright worm shaft positioned centrally within said vessel and extending through the bottom thereof and through said base, a retaining nut secured on the inner face of said bottom and receiving said worm shaft, a nut having an internally threaded recess adapted to receive the lower end of said screw, said nut also having an exteriorly threaded plug adapted on the removal of said worm to be threaded into said retaining nut, a cover slidable vertically on said worm, and a pressure nut operating on said worm above said cover.

1,946,931

SELF-CLEANING DEVICE FOR ADJUSTMENT SCREWS

Look L. Chong, Isleton, Calif.
Application October 7, 1932. Serial No. 636,637
3 Claims. (Cl. 74—40)

1. A self-cleaning means for an adjustment screw comprising, with a screw, a boss through which the screw is threaded, and scraper elements disposed substantially tangent to and en-

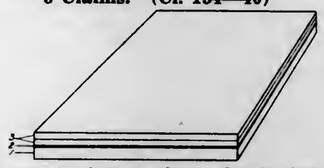


gaging the thread of the screw from opposite directions and at both ends of the boss.

1,946,932

LAMINATED PRODUCT

Robert P. Courtney, Maplewood, N. J., assignor to Bakelite Corporation, New York, N. Y., a corporation of Delaware
Application June 8, 1929. Serial No. 369,532
3 Claims. (Cl. 154—40)

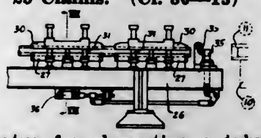


1. A process of preparing a laminated article which comprises applying a cement obtained in the treatment of rubber with sulfuric acid to a base material, superimposing thereon a composition containing a resinoid in reactive condition, and applying heat and pressure to the resulting product to set the resinoid and simultaneously bond the resinoid composition to the base material.

1,946,933

TUBE-MAKING APPARATUS

August P. Diescher, Pittsburgh, Pa., assignor to Diescher Tube Mills, Inc., Pittsburgh, Pa., a corporation of Delaware
Application March 31, 1932. Serial No. 602,145
25 Claims. (Cl. 80—13)

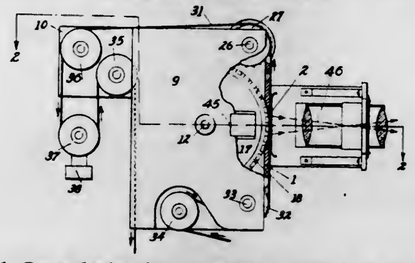


1. Apparatus for elongating a tubular blank around a mandrel to produce a tube, comprising, in combination, cross-rolls, a support on the feeding side of said cross-rolls for receiving a blank and a mandrel contained therein, a guide cooperating with said support and movably associated therewith to permit lateral feeding of a blank to said support, and a pusher adapted to engage the end of the blank and enter between said support and said guide, the engaging end of said pusher being provided with a recess for receiving the end of the mandrel, whereby said pusher is guided by said support and guide and guides the trailing end of said mandrel.

1,946,934

DEVICE FOR TAKING AND PROJECTING MOTION PICTURES

Paul William Dorst, Cincinnati, Ohio, assignor of one-tenth to Allen & Allen, Cincinnati, Ohio, a firm composed of Marston Allen, Erastus S. Allen, and Gibson Yungblut
Application March 9, 1929. Serial No. 345,809
15 Claims. (Cl. 88—16.8)

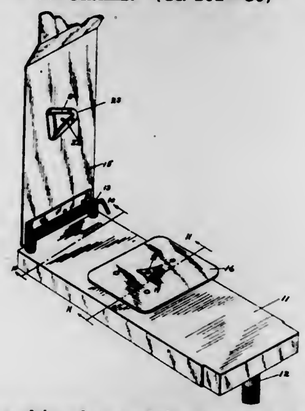


1. In a device for projecting motion pictures, means for moving a film steadily past an opening, and a slitted drum moving with relation to said film, said slits lying transverse to the line of movement of said film, and interspaced one-half the desired height of pictures upon said film, and means for moving said drum at a peripheral speed which is one-half the linear speed of said film.

1,946,935

SHOE ORNAMENTING MECHANISM

Benjamin W. Freeman, Cincinnati, Ohio
Application June 6, 1929. Serial No. 368,780
11 Claims. (Cl. 101—30)



1. A machine for applying imitation stitch indentations to a shoe part comprising a gauge for receiving and positioning an ornamental cut-out pattern in a shoe part and an indenting die having means for aligning same relative to said gauge to insure proper registry of the indented parts with the cut out pattern.

1,946,936

GALVANIZING METAL SHEETS

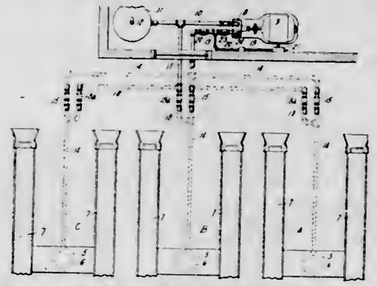
Ralph O. Griffis, Ashland, Ky., assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application June 4, 1929. Serial No. 368,322
5 Claims. (Cl. 91—70.2)

1. That process of galvanizing metallic sheets which comprises coating said sheets with a molten galvanizing metal, promptly cooling said sheets to substantially 125° F., and then roller leveling said sheets, all during the substantially continuous travel of said sheets.

1,946,937

HYDRAULIC LIFT FOR AUTOMOBILES AND THE LIKE

Ion Von Kert Hott and Warren E. Webster, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a corporation of Ohio
Application November 7, 1930. Serial No. 494,104
4 Claims. (Cl. 138—9)



1. In an operating mechanism for an automobile lift comprising a cylinder and a piston, a liquid supply reservoir, a pump connected with said reservoir, said pump and said reservoir being mounted at points remote from said lift, a pressure line leading from said pump directly to said cylinder and adapted to deliver liquid under pressure from said pump to said cylinder, a return line leading from said cylinder to said reservoir, separately operable valves in said pressure line and said return line, each valve having means under the control of the operator for opening the same and having means for automatically closing the same when released by said operator, a stop to positively limit the outward movement of said piston, an electric motor to operate said pump, an automatic switch connected in circuit with said motor and having pressure operated means connected with said pressure line to close the switch when the valve in said pressure line is opened and to open the switch when said piston engages said stop and pressure builds up in said cylinder, and pressure controlled means connected with said pressure line to permit a continued movement of said pump and said motor by momentum after the flow of liquid through said pressure line has been interrupted and the circuit for said motor has been broken.

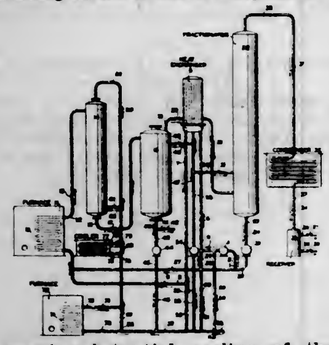
1,946,938

CONVERSION OF HYDROCARBON OILS

Lyman C. Huff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 27, 1932. Serial No. 613,876
6 Claims. (Cl. 196—58)

1. In a cracking process of the character wherein hydrocarbon oil is heated to cracking temperature under pressure while flowing in a restricted stream through a heating zone, thence discharged into the upper portion of an enlarged vertical reaction zone maintained under cracking conditions of temperature and pressure, both vapors and unvaporized oil passed downwardly through the reaction zone whereby conversion of the vapors occurs in the reaction zone, and the vapors and unvaporized oil are withdrawn from the lower portion of the reaction zone; the improve-

ment which comprises passing a washing oil, other than said unvaporized oil, downwardly over the inner surfaces of the reaction zone, the washing oil being at an elevated temperature such as



to prevent substantial cooling of the vapors whereby the conversion of the vapors in the reaction zone is not interfered with but said elevated temperature being insufficient to cause substantial coking of the washing oil in the reaction zone.

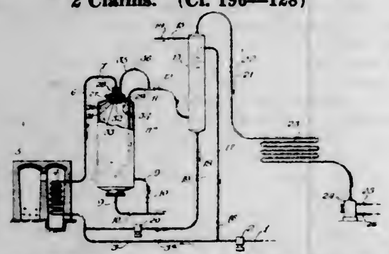
1,946,939

CRACKING HYDROCARBON OILS

Alphonsus W. Jurrissen, Wilmington, Albert B. Cox, Walnut Park, Calif., and Andrew McGregor Wood, Miri, Sarawak, Borneo, assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Original application September 14, 1928, Serial No. 306,024. Divided and this application March 15, 1933. Serial No. 660,932.

2 Claims. (Cl. 196—128)



1. In combination with an enlarged reaction chamber of an oil cracking system, a hot oil inlet pipe extending downwardly into and terminating adjacent the upper portion of said chamber, a non-rotatable flange fixed to the end of said pipe, an imperforate baffle beneath, spaced from and fixed to said flange, said flange and baffle being disposed substantially at right angles to the direction of discharge of oil from said pipe, and means for removing vapors and residual oil from the chamber.

1,946,940

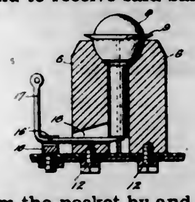
SAFETY DEVICE

Richard V. Lee, Calistoga, Calif.

Application August 18, 1932. Serial No. 629,388

4 Claims. (Cl. 200—52)

1. An electric safety device, comprising a pair of metallic bodies mounted in spaced relation, said bodies having the opposing faces recessed to form a central chamber, means for attaching electrical wires to the bodies to place the latter in series in an electric circuit, an elongated member of insulation material slidably disposed in said chamber, said bodies at the upper end of said chamber being formed to provide a semi-spherical pocket, and a metallic ball disposed in said pocket and electrically connecting the first two bodies, said elongated member being formed at its upper end to receive said ball, said ball be-



ing raised from the pocket by and upon the raising of said elongated member, and means for manually raising said last mentioned member to lift the ball from contact with the first mentioned bodies.

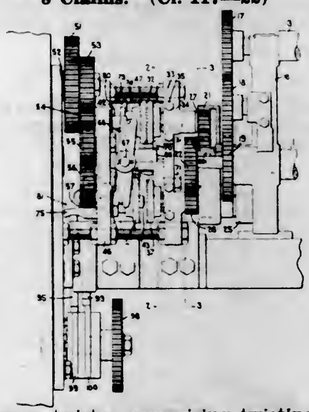
1,946,941

YARN TWISTING APPARATUS FOR FANCY YARNS

Harry A. Leonard, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application July 18, 1933. Serial No. 680,930

8 Claims. (Cl. 117—22)



1. A yarn twister comprising twisting means, two sets of delivery rolls for the yarn strands leading to the twisting means, a shaft for driving each set of delivery rolls, an internal gear and a concentric external gear for and having a driving connection with each of said shafts, a pinion for and meshing with each internal gear, a second pinion for and meshing with each external gear, driving means, clutching means between the driving means and the four pinions, and pattern-controlled means for operating the clutching means simultaneously to clutch either pinion of one set of delivery rolls and either pinion of the other set of delivery rolls to the driving means in each case for predetermined periods.

1,946,942

CALCULATING MACHINE

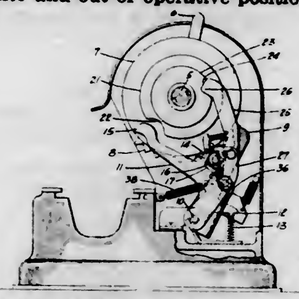
Gustav Lerch, Oakland, Calif., assignor to Marchant Calculating Machine Company, a corporation of California

Application March 9, 1931. Serial No. 521,077

2 Claims. (Cl. 235—130)

1. In a calculating machine, having an actuator and settable selectors therefor; latching means engaging therewith, a member spring

urged into blocking relation with said latching means, a manipulable element for moving said member into and out of operative position, fric-



tional means for retaining said member in inoperative position, and means operable in time with the actuator for disabling said retaining means.

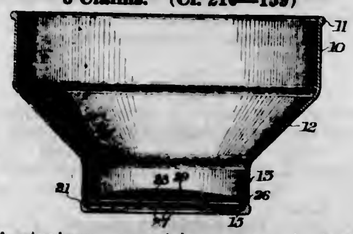
1,946,943

STRAINER

William F. Lewis, Canandaigua, N. Y., assignor to Lisk Manufacturing Company, Canandaigua, N. Y., a corporation of New York

Application August 30, 1930. Serial No. 479,036

5 Claims. (Cl. 210—159)



1. A strainer comprising a receptacle having a cylindrical portion provided with an external shoulder and an inwardly extending annular flange defining an opening, a clamp adapted to grip a strainer cloth against the outside of said cylindrical portion and having its lower edge adapted to grip said cloth against said shoulder, a grid resting on said annular flange and adapted to support a filter, a perforated dome-shaped plate having its lower peripheral surface resting on said filter, the edge of said plate forcing said filter against the inner surface of said cylindrical portion to form a seal between the edge of said plate and said cylindrical portion.

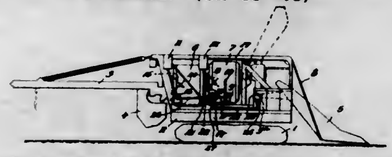
1,946,944

AUTOMATIC TANDEM DRUM PAVER

Erich H. Lichtenberg, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation

Application October 6, 1930. Serial No. 486,755

4 Claims. (Cl. 83—73)



1. In a concrete mixing machine, in combination, a support, a charging device, a plurality of mixing drums carried by the support, one of which is arranged to receive unmixed aggregates from the charging device, a discharge for said one of the mixing drums, a discharge for the other of said mixing drums, batchmeters associated with the mixing drums, one of said batchmeters being settable from the charging device and controlling the time of mixing of materials in the drum charged from said charging device, the other batchmeter being settable from the discharging device of the last mentioned drum for, controlling the time of mixing of the materials in the second drum, a discharge operating device for each drum, and connections between each discharge operating device and the batchmeter associated with its drum, the discharge operating device of the drum charged by the charging device being arranged to discharge the contents of said drum into the second drum under control of the batchmeter associated with the first drum.

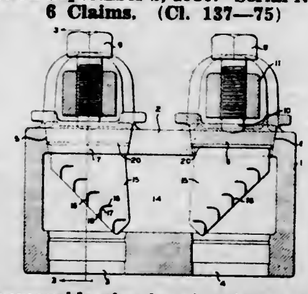
1,946,945

RETURN BEND PLUG DEFLECTOR

Lev A. Mekler, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Application September 2, 1930. Serial No. 479,409

6 Claims. (Cl. 137—75)



1. A removable plug in a box type return bend fluid conduit, comprising in combination, a depending support member associated with said plug, and a plurality of angularly bent deflecting vanes carried by said support member for diverting the flow of fluid through said conduit.

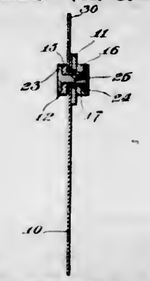
1,946,946

SEAL FOR AUTOMOBILE LICENSE PLATES

Maurice R. Phinney, Hyannis, Mass., assignor to Numpad Incorporated, Hyannis, Mass., a corporation of Massachusetts

Application July 18, 1933. Serial No. 680,935

4 Claims. (Cl. 40—125)



4. A device for preventing unauthorized attachment or removal of registration number plates for vehicles comprising hollow members between which a number plate is clamped, one of said members having a body portion insertable through the openings in the number plate and a bracket carried by the vehicle, said body portion

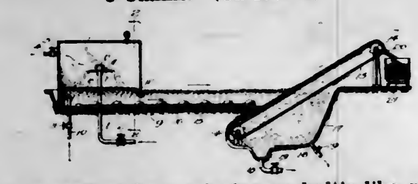
being adapted to receive and serve as a bearing for the other member, each of said members having a recess in its outer face, soft metal disks adapted to fit in the recesses in said members and receive the impression of a seal, one of said disks having a passage tapered outwardly at its outer end, the other of said disks having a body portion adapted to extend through said members and said passage and be spread into the tapered portion of said passage, and a tab secured to the inner face of one of said members and having an inturned ear adapted to engage one edge of the opening in the number plate.

1,946,947

PROCESS FOR TREATING RESIDUE OF HYDROCARBON OIL DISTILLATION

Clifton J. Pratt, Tulsa, Okla., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Application July 8, 1926, Serial No. 121,067
Renewed July 11, 1931
8 Claims. (Cl. 196—1)



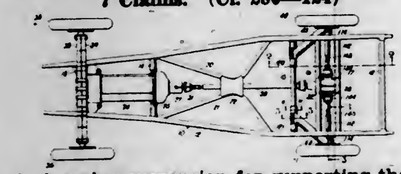
1. A method for producing asphaltic-like materials from hydrocarbon oil residue resulting from the cracking of hydrocarbons under heat and pressure comprising passing the hydrocarbon oil residue while at a temperature above 450° F. into the vapor space of a zone containing water maintained under substantially atmospheric pressure, removing volatilized constituents of the residue from said zone in vaporous form, causing the unvaporized portions of the residue to accumulate in that portion of the zone containing the water, continuously removing water and unvaporized oil constituents from said zone, causing said unvaporized oil constituents to solidify forming asphaltic-like substances, and thereafter separating such asphaltic-like substances from the water.

1,946,948

VEHICLE SPRING SUSPENSION

Delmar G. Roos, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of New Jersey

Application June 8, 1932. Serial No. 615,991
7 Claims. (Cl. 280—124)



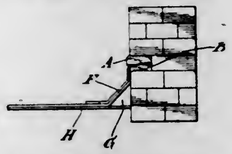
1. A spring suspension for supporting the rear portion of the chassis frame of an automotive vehicle upon the rear wheels of the vehicle comprising, a cross member extending transversely across the rear portion of the chassis frame and rigidly secured thereto, elastic bushings on said cross member, a pair of arms pivotally mounted on said bushings adjacent to the ends of said cross member and extending diagonally beneath the side members of said chassis frame provided at their free ends with wheel carrying sleeves, and a leaf spring centrally pivotally connected to the free end of each of said pivoted arms, the ends of said spring being connected to the corresponding side frame member of said chassis frame.

1,946,949

RAGGLE BLOCK

Jones P. Stagg, Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company, a corporation of Ohio

Application July 5, 1929. Serial No. 376,002
4 Claims. (Cl. 108—26)



1. A raggle block composed of two members, each of said members provided with surfaces adapted to be brought adjacent to each other and to enclose between them a flexible sheet material, each of said surfaces provided with a plurality of longitudinally extended grooves and tongues so arranged that the grooves and tongues of opposite members register, whereby the members are prevented from independent transverse movement when the block is assembled.

1,946,950

MANUFACTURE OF 1-IODO-8-HYDROXY-NAPHTHALENESULPHONIC ACIDS

Arthur Stoll, August Binkert, and Walter Kussmaul, Basel, Switzerland, assignors to firm Chemical Works formerly Sandoz, Basel, Switzerland

No Drawing. Application February 17, 1933, Serial No. 657,310, and in Switzerland February 29, 1932
9 Claims. (Cl. 260—155)

1. A process for the manufacture of 1-iodo-8-hydroxynaphthalene sulphonic acids, consisting in heating in an aqueous medium the diazonium iodides of 1-diazo-8-hydroxynaphthalene sulphonic acids.

1,946,951

AZO-DYESTUFF CONTAINING CHROMIUM AND PROCESS OF MAKING THE SAME

Fritz Straub and Hermann Schneider, Riehen, near Basel, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application February 13, 1933, Serial No. 656,621, and in Switzerland February 20, 1932
14 Claims. (Cl. 260—12)

1. A manufacture of chromiferous azo-dyestuffs which comprises reacting in a medium whose pH-value is not greater than 7, azo-dyestuffs of the general formula

$$\begin{matrix} R_1\text{—}N{=}N\text{—}R_2 \\ | \\ OH \end{matrix}$$

wherein R_1 means a sulfonated naphthalene radicle and R_2 a naphthol radicle, and wherein the hydroxyl group of the naphthalene radical R_1 stands in o-position to the azo-bridge, with agents yielding chromium, making said medium alkaline, and then completing the chroming without separating the chromiferous intermediate products.

1,946,952

PROCESS FOR PRODUCING SYNTHETIC LUMBER THAT IS NOT ATTACKED BY MOLDS

Orland R. Sweeney, Ames, Iowa, assignor to Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa, a corporation of Iowa

No Drawing. Original application May 27, 1929, Serial No. 374,274, now Patent No. 1,803,737, dated May 5, 1931. Divided and this application April 13, 1931. Serial No. 529,884
5 Claims. (Cl. 92—21)

1. The process of manufacturing and producing a synthetic insulating lumber from cornstalks consisting in the breaking up of the cornstalks into comparatively fine pieces, commingling the pieces with water, treating the mass with copper sulphate solution, and then forming the mass into lumber by pressing and drying.

1,946,953

PROCESS FOR PRODUCING SYNTHETIC LUMBER THAT IS NOT ATTACKED BY MOLDS

Orland R. Sweeney, Ames, Iowa, assignor to Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa, a corporation of Iowa

No Drawing. Original application June 27, 1929, Serial No. 374,274. Divided and this application April 16, 1931. Serial No. 530,736
3 Claims. (Cl. 92—40)

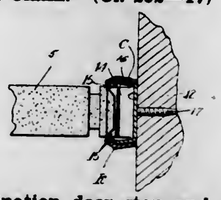
1. The process of manufacturing and producing a synthetic lumber from cornstalks consisting of the breaking up of the cornstalks into comparatively fine pieces, commingling the pieces with water, forming the mass into lumber by pressing and heat drying, and lastly spraying said lumber with a solution of copper sulphate, while said lumber is still warm from said heat drying.

1,946,954

COMBINATION DOOR CUSHION AND DOOR-CATCH

Joseph L. Ventura, Park Ridge, Ill.

Application November 19, 1932
Serial No. 643,448
1 Claim. (Cl. 292—17)



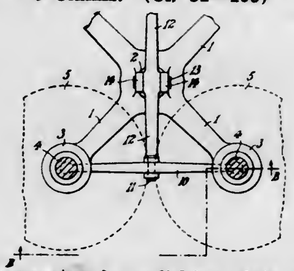
In a combination door stop and cushion, an elongated cushion body substantially rectangular in cross section and provided at one end with means for securing it to a wall, and at a relatively opposite end with a head, non-circular in cross section, together with a groove behind the head and beveled faces at the marginal edge of the head on the side thereof opposite to the groove, and a socket to engage said head comprising a metallic plate provided at the center thereof with means for securing it to a door, said plate having integral sides projecting forwardly therefrom, said sides being arranged at substantially right angles to one another about the plate to provide a wall for the socket, and said sides being also mutually separated at the corners of the socket, and integral curved jaw flanges on the free edges of said sides to engage in the groove in the cushion block behind said head upon inter-engagement of said head and socket; and an endless elastic sleeve engaging the outer faces of said sides and having an end edge portion engaging said jaws.

1,946,955

GLASS POLISHING TOOL

Frederic Barnes Waldron, Prescot, England, assignor to Pilkington Brothers Limited, Liverpool, England, a British company

Application September 9, 1933, Serial No. 688,723, and in Great Britain September 22, 1932
6 Claims. (Cl. 51—195)



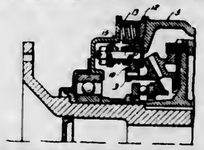
1. In apparatus for polishing plate glass, the combination of a plurality of polishing tools, a rotatable frame in which the tools are supported with a capacity for movement in a direction perpendicular to the surface of the glass, and a linkage system pivotally connected at one point to the frame, said linkage system comprising arms, the ends of which are adapted to bear against the respective tools and whereby pressure applied to any one tool is transmitted to the other tools of the plurality.

1,946,956

DRIVING MECHANISM

Charles Raymond Waseige, Rueil, France, assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Application February 14, 1931, Serial No. 515,868, and in France February 25, 1930
5 Claims. (Cl. 74—34)



1. In combination with a member to be driven, a shaft for driving said driven member, a gear drivably connected to said shaft, traction means for said gear including a plurality of yielding torque absorbing clutch units actuated by said gear, a series of bolts disposed in parallelism and corresponding in number to the number of said clutch units, each of said bolts extending through the corresponding clutch unit, and means on each of said bolts for adjusting the frictional pressure thereon.

1,946,957

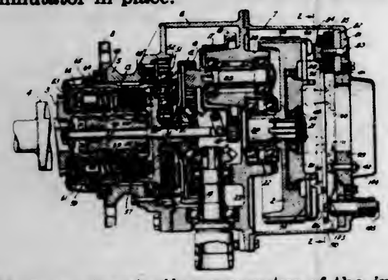
ENGINE STARTER

Joseph W. Allen, East Orange, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Application June 28, 1932. Serial No. 619,757
20 Claims. (Cl. 290—38)

1. In engine starting apparatus of the inertia type, in combination with an engine engaging

member and a gear train drivably connected thereto, a casing, a shaft rotatably supported therein and drivably connected to the high speed end of said gear train, a combined armature and inertia member comprising a hub drivably connected to said shaft and externally threaded, a rim of relatively great mass integral with said hub, a recessed portion intermediate said hub and rim, a commutator positioned about said hub and within said rim, and means threadedly engaging both said hub and rim for retaining said commutator in place.



13. In engine starting apparatus of the inertia type, in combination with an engine engaging member and a gear train drivably connected thereto, a casing, a shaft rotatably supported therein and drivably connected to the high speed end of said gear train, a combined armature and inertia member comprising a hub in driving relation with said shaft, a rim of relatively great mass integral with said hub, a recessed portion intermediate said hub and rim, a commutator positioned about said hub and within said rim, brushes engageable with the outer end surface of said commutator, and means for moving said brushes into and out of engagement with said end surface.

1,946,958

WELDING ELECTRODE AND FLUX THEREFOR

Loulis G. Anastasiadis, Cleveland, Ohio, assignor to Una Welding, Incorporated, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application June 25, 1932
Serial No. 619,280
5 Claims. (Cl. 219—8)

1. An electrode for arc welding comprising a base rod consisting predominantly of aluminum and a flux or coating applied uniformly to said rod, said flux comprising from 55% to 65% of potassium chloride, from 2% to 5% of sodium fluoride to cause the flux to adhere to the base rod without causing cracks in the flux during the welding operation, from 22% to 26% of lithium fluoride, and from 10% to 14% of sodium aluminum fluoride so that the melting point of the flux will be substantially the same or slightly higher than the melting point of the base rod.

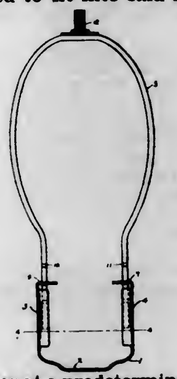
1,946,959

ADJUSTABLE LAMP SHADE SUPPORT

Maurice J. Auerbach, Cleveland, Ohio, assignor of one-half to M. S. Greenwald

Application June 16, 1933. Serial No. 676,191
7 Claims. (Cl. 240—148)

1. In an adjustable lamp shade support, the combination of a base, upwardly extending side members on said base, a cap on each of said side members, said caps having key slots therein, an open ended loop spring member set in said key slots and along said side members, means for retaining said loop spring member along said side members, and key grooves in said loop spring member adapted to fit into said key slots to re-



tain said member at a predetermined height above said base.

1,946,960

ACCELERATOR FOR RUBBER VULCANIZATION PROCESSES

Oswald Behrend, Woodhaven, N. Y., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application September 2, 1931
Serial No. 560,879
10 Claims. (Cl. 18—53)

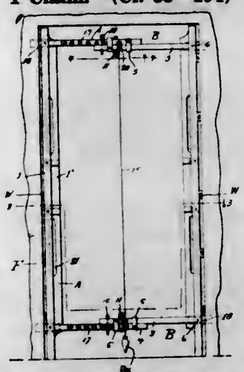
1. The process of vulcanizing rubber which comprises heating rubber and sulfur in the presence of an accelerator comprising the reaction product of substantially three molecular proportions of mercapto-benzo-thiazole and substantially one molecular proportion of benzotrichloride.

1,946,961

ADJUSTABLE TEMPLATE FOR JAMBS AND FRAMES

Axel Blade, Racine, Wis.

Application June 5, 1931. Serial No. 542,425
1 Claim. (Cl. 33—194)



A template for setting the filler blocks of a door or window frame in a door or window opening comprising a pair of side members each consisting of a pair of spaced straight edges for engaging the filler blocks, upper and lower pairs of horizontal cross members having their outer ends connected with the side members and extending between the said straight edges, means for adjustably connecting the members of each pair of horizontal cross members together to adjust the

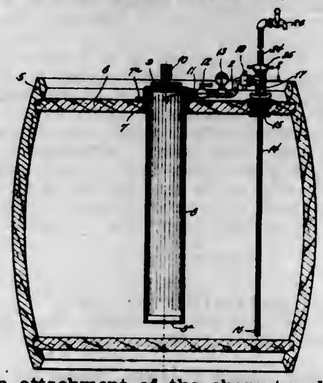
side members towards or away from each other, each horizontal member having a longitudinal slot therein and one member of each pair of horizontal members having a scale thereon and a zero mark on the other member of the pair, a slotted bracket fastened to the under face of the lower horizontal member of the upper pair and a bob line held in the slot of said bracket and passing through the slots of the members of the lower pair.

1,946,962

COOLING AND CARBONATING ATTACHMENT FOR RECEPTACLES

Fred A. Block, Detroit, Mich.

Application June 21, 1933. Serial No. 676,967
4 Claims. (Cl. 225—18)



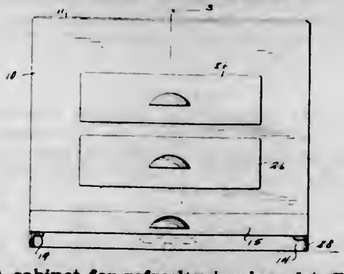
1. An attachment of the character described comprising, in combination, a tubular refrigerant receptacle which is closed except at its upper end; a screw cap closing and sealing the upper end of the receptacle; a pipe secured to the screw cap; a cock for controlling the flow of gas through said pipe; a straight pipe adapted to extend through a barrel head; a fitting for connecting the upper end of said straight pipe, outside the barrel, with the pipe which is secured to the screw cap; and a discharge pipe also connected to the fitting.

1,946,963

CABINET FOR REFRESHENING BISCUITS, ROLLS AND THE LIKE

Wilfred A. Brouillet, Sr., San Luis Obispo, Calif.

Application February 5, 1931. Serial No. 513,768
4 Claims. (Cl. 126—20)



1. A cabinet for refreshening breadstuffs comprising an outer casing having openings in its front wall, an inner casing having its side walls abutting the front wall but spaced at its sides, bottom and top, from the like walls of the outer casing, the inner casing being imperforate, pairs of flanges extending out from the side walls of the inner casing and forming guides, drawers insertible through the openings in the front wall of the outer casing on to said guides and fitting between the pairs of guides, webs extending inward from the openings of the front wall and extending between said guides and spaced from the lateral walls of the inner casing to form passages, the flanges defining the tops and bottoms of said passages being apertured whereby moisture evaporated from the breadstuffs in the drawers may be carried downward through said passages and condensed therein and discharged upon the floor of the inner casing.

1,946,964

MAGNETIC MATERIAL AND PROCESS OF MAKING THE SAME

Howard L. Cobb, Boonton, N. J., assignor to Boonton Research Corporation, Boonton, N. J., a corporation of New Jersey

Application July 11, 1933. Serial No. 679,945
20 Claims. (Cl. 175—21)



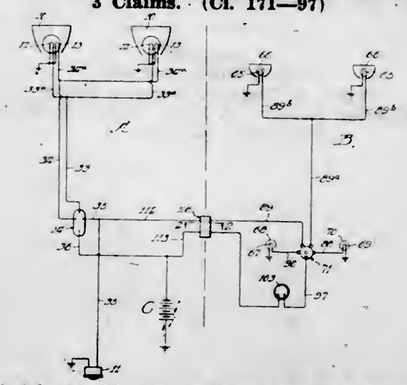
1. Magnetic core material comprising a sintered mixture of ferric oxide and a monoxide of another metal capable of chemically combining with said ferric oxide.

1,946,965

LIGHTING SYSTEM FOR AUTOMOTIVE VEHICLES

Harry A. Douglas, Bronson, Mich.

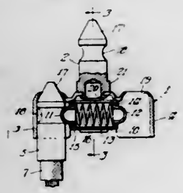
Application October 14, 1931. Serial No. 568,667
3 Claims. (Cl. 171—97)



3. The combination with an automotive vehicle having a chassis and a body; of a group of lighting circuits on the chassis including a tail light and two selective pairs of driving lights; a group of circuits on the body including a pair of parking lights; a common source of current for the circuits; a hand operated switch in controlling relation with the body circuits, said body switch having a contact in permanent electrical connection with the source of current and a bridge member in permanent connection with the first contact and movable to simultaneously place in circuit therewith the tail light and parking lights; a foot operated switch in controlling relation with the chassis circuits, said chassis switch having a contact in normally permanent connection with the source of current and with the tail light and a movable member in permanent electrical connection with the first contact of the chassis switch and movable alternately to place in circuit there-

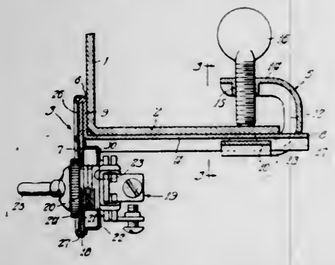
with one or the other of the pairs of driving lights; and means for discontinuing the circuit from the source of current through the first mentioned contact of the chassis switch.

1,946,966
ELECTRICAL CONNECTER
Harry A. Douglas, Bronson, Mich.
Application May 9, 1932. Serial No. 610,008
1 Claim. (Cl. 173—328)



A two-way electrical connecter comprising a sheet metal member bent to form two parallel sockets, said sockets each having an apertured end wall; a bulbous metallic terminal plug snugly received in each socket and having a cone-shape tip projecting through the said aperture; detents carried by the member to yieldingly retain the plugs in the sockets; and a third metallic terminal plug similar to the first mentioned plugs fixedly secured to the member between the sockets and projecting in the same direction beyond the first mentioned plugs, whereby the first mentioned plugs are in overlapping relation with each other and with the third plug.

1,946,967
ASSEMBLING MEANS
Harry A. Douglas, Bronson, Mich.
Application October 14, 1932. Serial No. 637,720
5 Claims. (Cl. 248—20)



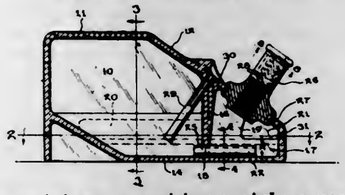
1. The combination with a support having angularly related portions; of a T-shape bracket, one of the branches of the head of the T lapping one of the portions and the leg of the T lapping the other portion, said leg being of channel cross-section; a U-shape jaw having a slot therein adjacent one of its sides receiving the said leg and having said side invertedly channeled to nest said leg therein; a screw passing threadedly through the other side of the jaw and adjustably clamping the portion of the support lapped by the said leg, which is also received in said jaw, and said leg together; a separable plate covering the head of the T; and a switch structure secured in the other branch of the head of the T opposite the first branch and clamping said plate thereto.

1,946,968
OILSTONE SHARPENING APPARATUS
Francis E. Gallagher, Troy, N. Y., assignor to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts
Application May 6, 1933. Serial No. 669,784
14 Claims. (Cl. 51—213)



1. A sharpening apparatus comprising a base having an oil reservoir formed therein, a frame extending longitudinally of the base, shaft extensions at opposite ends of said frame, a plurality of oilstones carried by said frame in fixed relation thereto, said frame being supported at its opposite ends on said base by said shaft extensions, said extensions and base having angular, interfitting surfaces adapted to prevent rotational and longitudinal movement of the frame, but permitting free lifting movement thereof relative to the base, said shaft extensions being provided with handles disposed outwardly beyond the angular supporting surfaces.

1,946,969
RESERVOIR INKWELL
Joseph Clarence Gilbert, Dallas, Tex., assignor of one-third to R. F. Gildehaus, Jr., Dallas, Tex.
Application August 27, 1928. Serial No. 302,389
10 Claims. (Cl. 120—59)

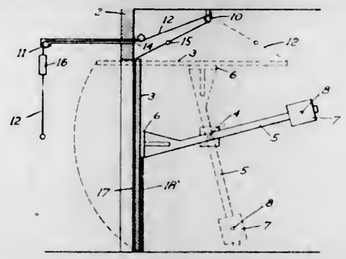


1. A container comprising mainly a reservoir and a dip well, having a flood chamber communicating with said reservoir through the dip well, said flood chamber being formed by an enlargement of said dip well arranged adjacent to a portion of said reservoir, said flood chamber of such size relative to capacity of said reservoir as to maintain the rise of liquid in the dip well within a desirable limit, when the said container is subjected to normal range of temperature change.

1,946,970
DOOR AND OPERATING MEANS THEREFOR
Louis Grandgent, Freeport, N. Y., assignor, by mesne assignments, to Louis Grandgent, Freeport, N. Y., and D. Douglas Demarest, Little Neck, N. Y.
Application February 10, 1932. Serial No. 591,972
2 Claims. (Cl. 268—30)

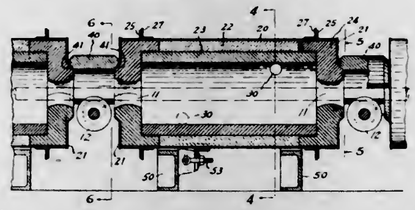
1. The combination with a garage, of a door mounted for limited rotary movement about a horizontal axis; a main counterweight connected thereto and having limited rotary movement about the same horizontal axis, said counterweight in the closed position of the door being located above a horizontal plane passing through said axis and behind the vertical plane passing through said axis, and in the fully open position

of the door being also substantially behind said vertical plane; and means for swinging the door from closed to open position and vice versa, said means comprising a pulley mounted at a point above said axis, a pull rope attached to said door and extending over said pulley to a point out-



side of the garage, and a secondary counterweight attached to said pull rope; both the main and secondary counterweights moving downward during the initial stage of opening movement of the door, the secondary counterweight opposing the pull of the main counterweight when said door is in fully open position.

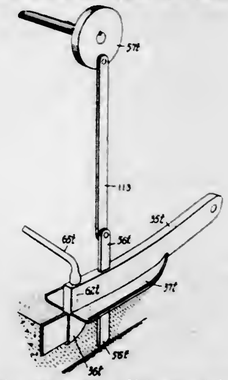
1,946,971
HEATING FURNACE
Isaac Harter, New York, N. Y., assignor to The Babcock & Wilcox Tube Company, West Mayfield, Pa., a corporation of Pennsylvania
Application October 6, 1932. Serial No. 636,433
14 Claims. (Cl. 263—6)



14. A heating furnace, comprising a plurality of direct heating furnace units mounted end to end in spaced relation, and conveyor rolls between the furnace units outside the heating chambers mounted independently of the furnace units, the furnace units being formed for the passage therethrough of the articles to be heated supported by the conveyor rolls and to discharge hot substantially inert gases from the furnace chambers to envelope the articles as they pass between the furnace units and each unit being removable independently of the other units and independently of the adjacent conveyor rolls.

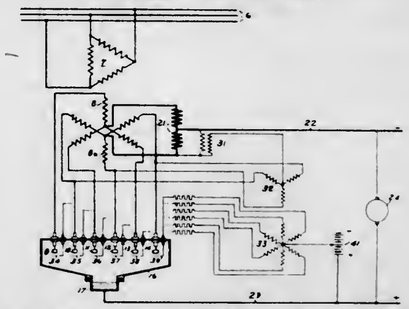
1,946,972
MACHINE FOR AND METHOD OF PRODUCING JOINTS OR TRAFFIC LINES IN CONCRETE
John N. Heltzel, Warren, Ohio
Application April 21, 1925, Serial No. 24,801
Renewed May 28, 1930
53 Claims. (Cl. 94—45)

1. A machine for producing a joint or traffic line in concrete comprising a carriage movable over the concrete, a depositor carried by the carriage and movable longitudinally in the concrete to form a groove therein and having provision for the discharge of material therefrom into said groove, and means carried by the carriage to work in the concrete in advance of the depositor for



deflecting stones and solid particles out of the path of the depositor.

1,946,973
RECTIFIER CONTROL SYSTEM
Hans Keller, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application January 14, 1932, Serial No. 586,543, and in Germany January 7, 1931
8 Claims. (Cl. 175—363)

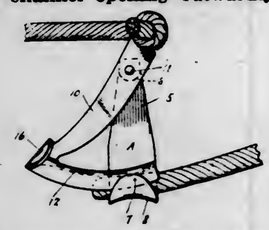


8. In an electric current rectifying system including an alternating current supply line connected with a transformer for supplying alternating current to the anodes of an electric current rectifier of the metallic vapor arcing type having control electrodes associated with the anodes to control the establishment of arcs thereon and having a cathode, a transformer supplying a potential of fundamental frequency to the control electrodes, an auxiliary transformer connected with the primary winding of said transformer supplying fundamental frequency potential to the control electrodes, said auxiliary transformer being connected with the transformer supplying the anodes and impressing an uneven numbered harmonic potential on the control electrodes, the harmonic potential being in constant phase relation with the control electrodes, and means for impressing a direct current potential on the control electrodes.

1,946,974
CORN SHOCK SNUBBER AND LIFTER
Levi O. Koch, Soldiers Grove, Wis.
Application May 15, 1933. Serial No. 671,219
1 Claim. (Cl. 100—31)

A fodder or grain binder comprising a curved lever having an eye at one end thereof, a rope

having one end fastened in the eye with the rope extending in the same direction as the curve of the lever, a cross bar having its central portion connected to the other end of the lever on the concaved edge of the lever, said bar forming a finger hold, an arcuate shaped channel member having one end connected to the last mentioned end of the lever and extending outwardly from the convex edge of the lever, said channel member having its channel opening outwardly, a pivot



pin passing through the lever adjacent the eye carrying end and the channel member being eccentrally arranged to the pivot pin, a shank having one end pivoted to the pin and its other end formed with a curved hook for receiving another part of the rope, the channel-shaped member passing through the space formed by the hook for clamping the rope in the hook, and a thumb engaging projection on the hook end of the shank extending in an opposite direction from the hook, the bight part of the hook being inwardly bowed.

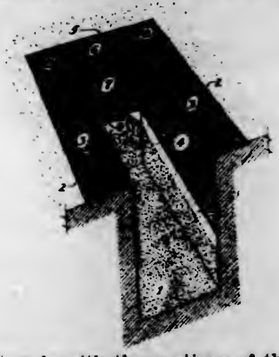
1,946,975
COMBINATION JACK FOR TWO LASTS
Andrew R. Kosma, Bayonne, N. J.
Application March 7, 1933. Serial No. 659,963
5 Claims. (Cl. 12—123)



1. An apparatus of the class described including a hollow post, a pair of bracket arms diverging upwardly from the post, socket blocks in the brackets having last receiving sockets therein, last ejecting hammers rockably mounted in the brackets below said socket blocks, and means extending through the post to actuate the hammers.

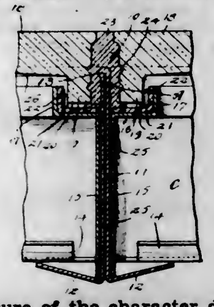
1,946,976
GRAVE LINING
Morris Lange, Cleveland, Ohio
Application October 11, 1933. Serial No. 693,162
9 Claims. (Cl. 27—29)

1. An artificial grass grave lining comprising rectangular sheets of fabric adapted to overlie the sides and ends of a grave, rectangular tabs attached to the tops of said sheets, adapted to com-



plete a rectangle with the portions of the sheets outside the grave, and similar tabs attached to the bottoms of said sheets.

1,946,977
SUPER GLASS VAULT LIGHT CONSTRUCTION
George H. Lenke, Cicero, Ill., assignor of one-third to Julius J. Ohlis and one-third to James H. Old, both of Cicero, Ill.
Application April 28, 1931. Serial No. 533,493
7 Claims. (Cl. 94—27)

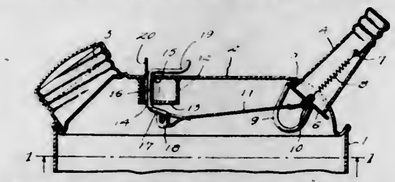


1. A structure of the character described, including longitudinal elements, and transverse elements extending between the longitudinal elements, the longitudinal elements being formed at their lower edges with upwardly and laterally extending flanges, the transverse elements being less in depth than the longitudinal elements and having outwardly and upwardly extending flanges resting upon the flanges of the transverse elements and constituting gutters discharging into the gutters formed by the upwardly and outwardly extending flanges on the longitudinal elements.

1,946,978
VALVE FOR THE POURING NOZZLES OF LIQUID CONTAINERS
Anton O. Lien, Louisburg, Minn., assignor of one-half to William Lee Nelson, Minneapolis, Minn.
Application June 11, 1932. Serial No. 616,712
6 Claims. (Cl. 221—15)

1. In a receptacle having a pouring nozzle, a valve seat formed at the inner end of the nozzle and constituting a continuation of the same through the attached receptacle wall, a valve disk normally resting against said seat, a contractile spring disposed within the nozzle and having one

end secured thereto and having its other end secured to the disk, a pair of guard members mounted on the receptacle and projecting inwardly and disposed with the disk therebetween, a shaft oscillatably mounted in the top of the receptacle and having an outer end portion formed to provide an arm and an inner end portion formed to provide a crank, coupling means



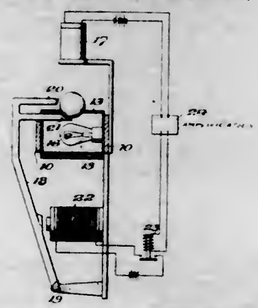
between the crank and the disk whereby upon oscillation of the shaft the disk will be drawn from its seat, said guard means guiding the movement of the disk and preventing it shifting laterally from the seat, and a hollow receptacle surrounding the shaft and disposed within the receptacle, for retarding the leakage of the receptacle contents about the shaft when the receptacle is upset.

1,946,979
ARTIFICIAL BAIT
Ernest Liotta, Cleveland, Ohio
Application October 24, 1932. Serial No. 639,337
7 Claims. (Cl. 43—45)



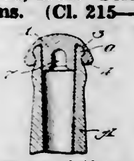
1. A casting spoon having its line end transversely bifurcated to define upper and lower lips of substantially the same width at the vertex thereof, one or more of said lips comprising means for securing a line thereto.

1,946,980
APPARATUS FOR SEGREGATING EGGS
Lowell Loomis, Oakland, Md.
Application December 28, 1931
Serial No. 583,558
2 Claims. (Cl. 209—111)



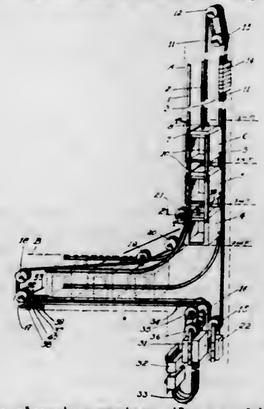
1. In an apparatus for segregating eggs dependent upon their translucency, a carrier having a series of recesses therein in which a series of eggs are supported, a selenium cell and an alined source of light adjacent opposite surfaces of the carrier, means for moving said carrier to pass eggs thereon between said cell and light, and means engageable with eggs above and below the carrier for removing from said carrier eggs through which insufficient light rays pass to maintain the normal conductivity of said cell.

1,946,981
BOTTLE STOPPER
Melvin S. Lower, Barberton, Ohio, assignor to The Sun Rubber Company, a corporation of Ohio
Application July 14, 1930. Serial No. 467,725
2 Claims. (Cl. 215—47)



1. A bottle stopper consisting of a single piece of rubber having the form of a plug and a bell-shaped cup larger in diameter at the bottom than the top of the plug rising from the top of the plug in an upright position, the annular wall of the cup being in the form of a thin web adjacent to the bottom of the cup and increasing gradually in thickness in the outward direction toward the top to form at the top a heavy bead whose under slope forms the outer face of said annular wall, said plug having peripheral grooves extending around the same and a deep cavity extending upwardly therein through the bottom face past the planes of the several grooves.

1,946,982
ELEVATOR SYSTEM
Frank V. McPeak, Los Angeles, Calif., assignor, by mesne assignments, to Patrick J. Campbell, New York, N. Y.
Application October 10, 1929. Serial No. 398,793
18 Claims. (Cl. 187—16)



1. In an elevator system, the combination with a building having a vertical shaft connecting the floors of the building, and a horizontal shaft merging in a gradual curve with the lower end of the vertical shaft, of a plurality of connected cages adapted to move as a unit in both of the shafts and from one to the other, a counterbalance for the unit of cages, and means for varying the counterbalancing load for the cages as the same enter or depart from the horizontal shaft.

1,946,983
COMBINATION ASH TRAY AND BRIDGE SCORE PAD HOLDER
Frank Howard Mellon, Pittsburgh, Pa.
Application February 26, 1932. Serial No. 595,376
3 Claims. (Cl. 281—44)

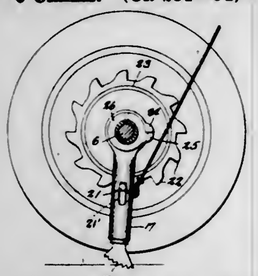
1. A device of the character described comprising a base having a vertical opening therethrough a portion of which constitutes a journal bearing,

said opening having an enlarged portion at its lower end defining with the remainder of the opening a shoulder, an inclined rotatable table, a shaft depending from the table and journalled in the said opening and having a reduced threaded portion located below the said shoulder and defining a shoulder on the shaft on a level with said shoulder in the said opening, a washer in the



enlarged portion of the opening and engaged with the shoulder in the opening and provided with an opening through which the reduced threaded portion of the shaft is received in a manner to engage the washer also with the shoulder on the shaft, and a nut threaded on the reduced threaded portion of the shaft below and engaging the washer for preventing relative longitudinal movement of said shaft in said opening in the base.

1,946,984
AUTOMOBILE JACK
Nicholas A. Nicholson, Johnstown, Pa.
Application October 25, 1932. Serial No. 639,523
6 Claims. (Cl. 254—94)

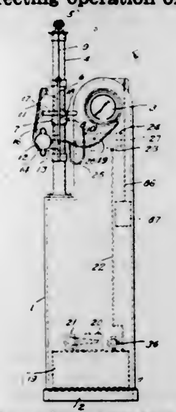


4. The combination with the axle housing and drive wheels of a motor vehicle, of a jack for each wheel, each jack comprising telescoping sections, means for normally holding the telescoping sections in their extended positions, cooperating means on the jacks and wheels connecting the jacks and wheels when the telescoping sections are in their retracted positions, and means for restricting movement of the motor vehicle with respect to the jacks.

1,946,985
BLOOD PRESSURE REGISTERING MACHINE
James F. Parker, Jr., Raleigh, N. C., and James L. Parker, Charleston, S. C.
Application August 21, 1930. Serial No. 476,745
8 Claims. (Cl. 73—44)

1. In a machine of the character described a frame, an arm pivoted to the frame, a bar connected with the arm and slidable through the frame, means for fixing the bar with relation to the frame, opposed bags carried by the frame and arm respectively, tubes connecting said bags together and means for leading fluid under pressure into and away from one of the bags

4. A blood pressure indicating machine comprising a bag for application to an artery of a limb of the anatomy, an indicating device having a movable indicator, means connecting said bag and indicator to render said indicator responsive to pressure in the bag, means for supplying the bag with an elastic fluid under pressure until a predetermined maximum pressure is attained, means for bleeding the bag, means for automatically effecting operation of the bleeding



means when said maximum pressure is reached to start recession of the indicator, and means to automatically stop said indicator during such recession in response to recurring pressure in the artery of the limb engaged by the bag.

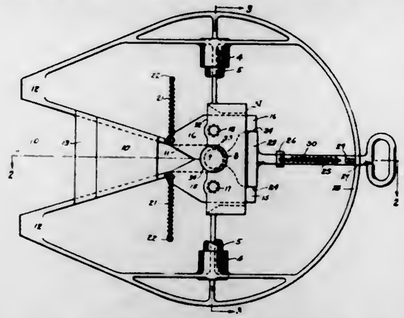
1,946,986
VENTILATED SHOE
Harvey D. Reed, Abington, and Harrison H. Kent, Whitman, Mass., assignors to Regal Shoe Company, Whitman, Mass., a corporation of Massachusetts
Application July 19, 1930. Serial No. 469,145
5 Claims. (Cl. 36—3)



1. A shoe upper comprising in its construction a vamp member for the forepart, a quarter member for the rear part, said members being united to each other by lines of stitches, one member being provided with extensions on opposite sides of the shoe projecting beyond said stitches and united at their farther edges to the other member by additional lines of stitches, the lapped area of one member being provided with ventilating perforations in communication with relatively offset perforations in said extensions.

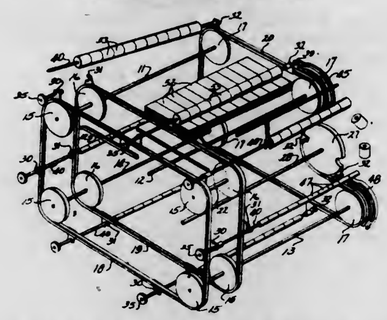
1,946,987
FIFTH WHEEL
Francis I. Rogers, Albion, Pa., assignor to Rogers Brothers Corporation, Albion, Pa., a corporation of Pennsylvania
Application June 6, 1932. Serial No. 615,569
6 Claims. (Cl. 280—33.1)

6. In a tractor-trailer combination, a fifth wheel connection, comprising complementary bearing members on the respective vehicles, a vertically disposed king pin on one of said vehicles a pair of jaws mounted on upright pivots on the other member, said jaws being oppositely recessed for receiving the pin radially therebetween, said pin moving said jaws about their respective pivots into pin-engaging position consequent upon radial movement of the pin therebetween, means movable radially toward and away from the pin for latching said jaws in pin-engaging position, a spring for moving said latch-



ing means to active position, and means operable by the same spring for latching said jaw latching means in active and idle positions selectively while the jaws are in pin-engaging position.

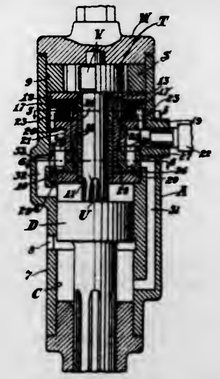
1,946,988
PACK HOLDING MECHANISM
Frederick C. Schueler, Green Bay, Wis., assignor to Hudson-Sharp Machine Company, Green Bay, Wis., a corporation of Wisconsin
Original application June 28, 1930, Serial No. 464,482. Divided and this application August 29, 1931. Serial No. 560,149
9 Claims. (Cl. 271—62)



1. In a pack holder, the combination with a plurality of individual supports for packs of sheets, of an end guide for each pack and lateral guide means in a single plane between each pair of packs, means for mechanically feeding the individual pack supports toward the point of sheet delivery, and means for automatically controlling the operation of said mechanically feeding means, said automatic control means including said lateral guide in one stack of each pair and a separate control finger in the adjacent stack of each pair.

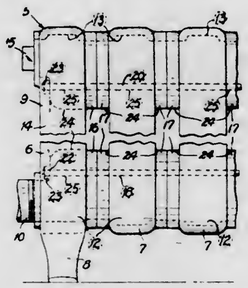
1,946,989
VALVE FOR ROCK DRILLS
William A. Smith, Sr., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application December 17, 1931
Serial No. 581,599
1 Claim. (Cl. 121—20)

In a fluid actuated rock drill, the combination of a cylinder having a piston chamber and a piston therein, rotation mechanism for the piston including a rifle bar extending into the piston chamber, rotor and valve chambers encircling the rifle bar, a supply reservoir between the chambers, inlet passages leading from the valve cham-



ber to the piston chamber, a valve in the valve chamber to effect communication between the supply reservoir and the inlet passages, and a rotor in the rotor chamber and being connected to the valve to rotate said valve.

1,946,990
RADIATOR
Rudolph Strothmann, Belleville, Ill.
Application July 31, 1933. Serial No. 682,935
5 Claims. (Cl. 257—151)



3. A radiator comprising end and intermediate sections, each section having tubes formed therein, lateral nipple bosses formed on said sections exteriorly, the inner portions of the bosses being enlarged and having holes passing therethrough, bolts passing through the holes in said inner enlarged bosses and held in frictional engagement with the end sections.

1,946,991
MACHINE TO PIERCE A PLURALITY OF HOLES IN A WHEEL HUB SHELL FOR SHORT SPOKES
Herman Tormyn and Frank F. Wiethoff, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 29, 1932. Serial No. 625,990
16 Claims. (Cl. 164—90)

1. In a machine for punching spoke holes in the hub of a wire wheel, a die shoe, a punch holder

slide yieldably mounted in said shoe, a top die reciprocable relative to the die shoe, means on the slide to receive a wheel hub, means on said top die cooperating with the hub receiving means to hold the hub rigidly in position, a plurality of punch holders slidably mounted in said slide for movement transversely to the movement of the



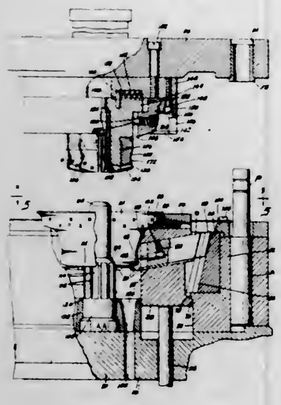
slide, a plurality of punches mounted in said holders, means for causing said holders to move toward the wheel hub to cause the punches to punch a plurality of spoke openings entirely around the periphery thereof, said last named means being operative only when the top die is moved to cause the holder slide to move.

1,946,992

MACHINE TO PIERCE TWENTY HOLES IN A WHEEL HUB SHELL FOR LONG SPOKES

Herman Tormyn and Frank F. Wiethoff, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application July 29, 1932. Serial No. 625,993
15 Claims. (Cl. 164—90)



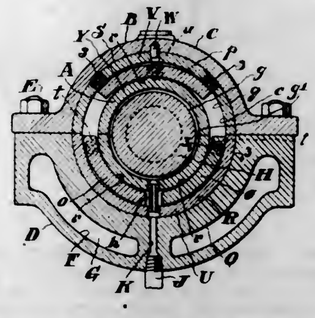
1. In a machine of the class described, a die shoe, a plurality of cams mounted on said shoe, a slide holder slidably mounted in said shoe, a plurality of punch holders mounted in said slide holder and having a part thereof in engagement with and operated from said cams, punches mounted in said punch holders, a wheel hub adapted to be received in said holder, a reciprocable top die, the downward movement of said top die pushing said slide holder downward and causing the cams to act to push the punch holders inwardly to cause the punches to punch spoke openings in the hub.

1,946,993

BEARING

William E. Trumpler, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application December 30, 1932
Serial No. 649,511
7 Claims. (Cl. 308—26)



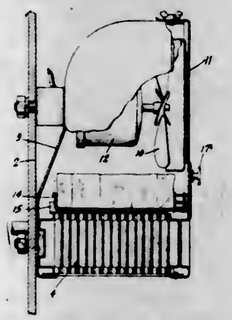
1. A bearing comprising a shell, a housing for the shell, a plurality of flexible devices for holding the shell suspended within the housing, adjustable means for flexing the devices, and means carried by the housing and being adjustable therein for shifting the flexible devices longitudinally of the housing.

1,946,994

CAR COOLER

Benjamin A. Waderlow, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 21, 1932
Serial No. 634,109
3 Claims. (Cl. 257—7)



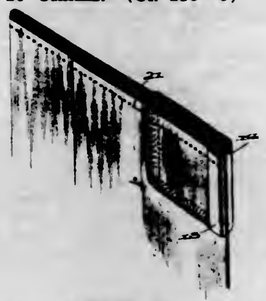
1. In a motor vehicle, the combination with an engine having a liquid cooling system and an enclosed body, of a casing located within the body and provided with air entrance and discharge openings communicating with the interior of the body, a fan at the air entrance opening for recirculating air from within the body through said casing, a heat exchanger between the fan and said discharge opening, inlet and outlet connections between said heat exchanger and the engine cooling system, and a tray adapted to receive a supply of dry ice and position the same within the casing and in the path of the air current produced by the fan.

1,946,995

MULTI-PLY BAG

Brenton Bigelow Weaver, Westmount, Quebec, Canada, assignor to Bagpak, Inc., a corporation of Delaware

Application December 15, 1932
Serial No. 647,297
10 Claims. (Cl. 150—9)



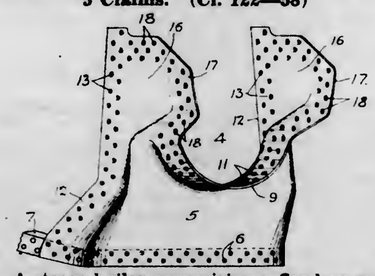
2. A multi-ply valve bag having a valve sleeve embedded in a side wall and extending diagonally inward, the sleeve having flaps extending outward and adhered to the outer bag-ply.

1,946,996

LOCOMOTIVE BOILER THROAT SHEET CONSTRUCTION

George M. Wilson, Schenectady, N. Y.

Application October 14, 1933. Serial No. 693,691
5 Claims. (Cl. 122—58)



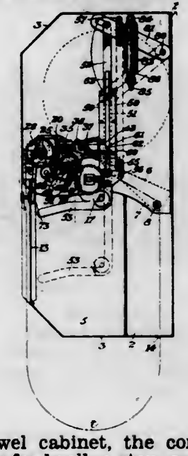
1. A steam boiler comprising a fire box section; a barrel section disposed forwardly of said fire box section with its bottom higher than the bottom of said fire box section; and a throat sheet connecting said sections having a body portion transversely disposed at the forward end of said fire box section and extending upwardly from the bottom thereof to said barrel section, side flanges at the opposite sides of said body portion extending upwardly beyond said body portion, said side flanges extending rearwardly of said body portion and being connected with the respective sides of said fire box section, and a curved flange at the top of said body portion having side portions extending upwardly beyond said body portion adjacent the upper portions of the respective side flanges, said curved flange extending forwardly of said body portion and being connected with the bottom and sides of said barrel section, said side portions of said curved flange and the respective adjacent rearwardly extending side flanges approaching alignment with each other as they approach the horizontal center line of said barrel section and said throat sheet being widened between each of said side portions of said curved flange and its adjacent side flange above said body portion to provide relatively gradually diminishing curves therein from the body portion upwardly.

1,946,997

TOWEL CABINET

Joseph H. Addler, Brooklyn, and Herbert W. Crowson, New York, N. Y., assignors to Pulliclean Manufacturing Corporation, Bridgeport, Conn., a corporation of Delaware

Application December 20, 1932
Serial No. 648,067
16 Claims. (Cl. 312—38)



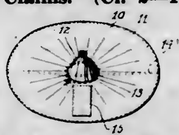
1. In a towel cabinet, the combination of a towel delivery feed roll, a stop, a slidably mounted bolt carried by said roll for engagement with the stop, means normally holding the stop in inoperative position out of the path of the bolt, means for moving the stop to operative position in the path of the bolt, and means for further moving the stop to effect disengagement of the bolt therefrom.

1,946,998

BATHING BEACH ACCESSORY

Vernon W. Armstrong, Chicago, Ill.

Application October 17, 1932. Serial No. 638,089
2 Claims. (Cl. 2—192)



1. An accessory for bathing beaches, consisting of the combination of a circular sheet of fabric, a hoop of spring material secured to the edge of said sheet and tending to hold said sheet in flat condition, said sheet having a central aperture, a crown portion of fabric extending from the edge of said aperture, a draw string around said aperture for changing the size thereof, said hoop being of strip material overlapped at its end portions, and slide members carried by said end portions facilitating relative movement thereof longitudinally, said end portions having interengaging conformations tending to hold said end portions in desired adjustment.

1,946,999

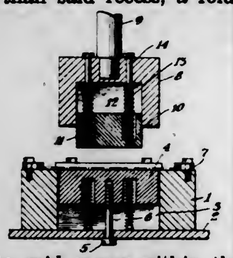
MACHINE FOR TURNING THE EDGES OF FLEXIBLE MATERIAL

Maurice M. Balsam, New York, N. Y.

Application June 27, 1933. Serial No. 677,916
1 Claim. (Cl. 69—1)

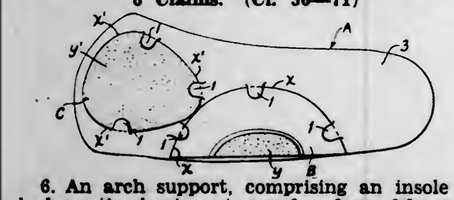
In a machine for turning the edges of nonmetallic flexible material, a bending element having a recess therein, a lower pad movable

within the recess and of substantially the same dimensions as the recess, an upper pad movable toward and with the lower pad to clamp the work to the lower pad, the upper pad being of lesser dimensions than said recess, a folding element



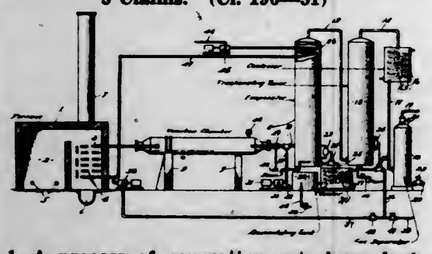
movable into said recess within the space between the upper pad and the bending element to fold the material against the lower pad, and means for positively supporting the lower pad during the folding operation.

1,947,000
ARCH SUPPORT
Ralph T. Benning, St. Louis, Mo.
Application August 6, 1932. Serial No. 627,695
6 Claims. (Cl. 36—71)



6. An arch support, comprising an insole or body portion having a top surface formed from an imperforate piece of celluloid or the like and a bottom surface formed from a piece of non-metallic sheet material that is stiff but slightly flexible, an arch pad positioned on the underside of said insole, and integral prongs on said bottom piece, produced by forming slits in said bottom piece, that lap over the edge portion of said pad.

1,947,001
PROCESS FOR CONVERTING PETROLEUM HYDROCARBONS
Albert G. Davis, Elizabeth, N. J., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a corporation of Delaware
Application January 18, 1926. Serial No. 81,915
5 Claims. (Cl. 196—51)

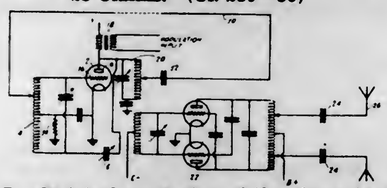


1. A process of converting petroleum hydrocarbons, comprising the steps of subjecting the oil to cracking conditions of temperature and pressure in a heating stage, passing the oil to a digesting stage wherein it is maintained at a cracking temperature while under pressure, passing the cracked products to a zone of reduced pressure wherein the lighter fractions are distilled off, introducing into the zone of reduced pressure a hydrocarbon medium substantially none of which will volatilize in the reduced pressure zone.

1,947,002
TREATMENT OF ORGANIC DERIVATIVE OF CELLULOSE FABRIC
Camille Dreyfus, New York, N. Y.
No Drawing. Application August 28, 1930
Serial No. 478,542
7 Claims. (Cl. 8—20)

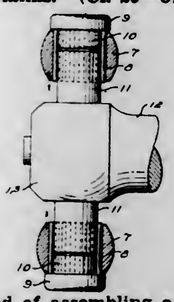
1. The method of delustering fabrics containing unsaponified yarns of organic derivatives of cellulose comprising thoroughly wetting out the fabric containing the unsaponified organic derivative of cellulose yarns by prolonged treatment with non-saponifying aqueous liquids and then subjecting the same while thoroughly wetted out to the action of a delustering agent.

1,947,003
OSCILLATION GENERATION
James L. Finch, Patchogue, and James W. Conklin, Rocky Point, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application December 3, 1930. Serial No. 499,642
23 Claims. (Cl. 250—36)



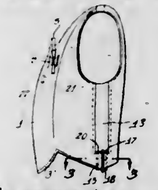
1. In electrical apparatus of the character described, the combination of a pair of electron discharge devices arranged in pushpull fashion and having input and output circuits, one of which circuits is tuned approximately to a desired operating frequency, and long line means comprising transmission lines, long relative to the operating wave length for coupling the control electrode and anodes of the devices together for accurately stabilizing the frequency at which the devices operate to the desired operating frequency.

1,947,004
METHOD OF ASSEMBLING ROLLER BEARINGS
Paul B. Goddard and Frank Ketcham, Dearborn, Mich., assignors to Universal Products Co. Inc., a corporation of Delaware
Application March 18, 1933. Serial No. 661,445
3 Claims. (Cl. 29—84)



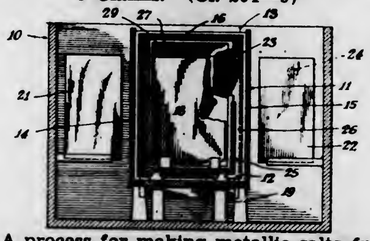
1. The method of assembling a roller bearing which comprises the arranging and positioning of a plurality of rollers around the inner face of an outer bearing member, inserting a headed plug of less length than the rollers axially into the assembly for holding the rollers in position, the head of the plug overlapping the adjacent ends of the rollers, positioning the assembly adjacent the end of a trunnion in substantially axial alignment therewith and then moving the outer bearing member with its rollers and the trunnion relative to each other axially so as to cause the trunnion to abut and eject the plug.

1,947,005
SAFETY BATHING GARMENT AND LIFE PRESERVER
Konrad Gunther, Detroit, Mich.
Application November 19, 1932
Serial No. 643,354
3 Claims. (Cl. 9—20)



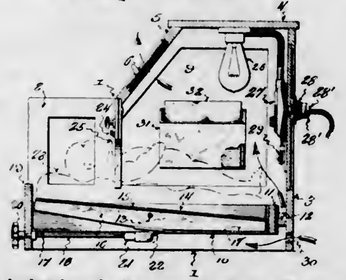
1. An inflatable garment comprising two plies of material, the outer ply of which material is larger than the inner, stays secured to and between said plies to limit expansion of the outer ply on inflation, joints formed in said garment and substantially dividing the interior thereof into a plurality of compartments while leaving comparatively small areas of communication between such compartments, and detachable clasps applicable to said areas for completely obstructing communication therethrough.

1,947,006
PROCESS AND APPARATUS FOR THE PREPARATION OF METALLIC SALTS
William P. Heineken, Dongan Hills, and Meyer L. Freed, New York, N. Y., assignors to Rufert Chemical Company, Dover, Del., a corporation of Delaware
Application February 14, 1931. Serial No. 515,781
9 Claims. (Cl. 204—9)



1. A process for making metallic salts from a metallic mass of substantially unknown composition containing two known metals and for recovering said known metals in a substantially pure state, comprising forming an anode from said mass, electrolyzing said anode in a solution of soluble salts of the metals of said anode, segregating the cathode from the anode and providing means including a flow of electrolyte from said cathode toward said anode to prevent migration of ions from said anode to said cathode but permitting migration of ions from said cathode to said anode, the electrolyte adjacent said cathode being a solution of a salt of the relatively electronegative of said known metals, maintaining the electrolyte adjacent said cathode in a substantially pure state and in a condition compatible with the deposition of its metal, providing a supplementary cathode removed from said first mentioned cathode, said supplementary cathode adapted for unrestricted interchange of ions with said anode, and maintaining the electrolyte adjacent said supplementary cathode in a condition compatible with the deposition of the other of said known metals.

1,947,067
BABY INCUBATOR
Erwin F. Hoffman, Madison, Wis.
Application March 24, 1933. Serial No. 662,459
5 Claims. (Cl. 128—1)

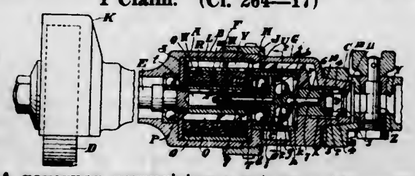


3. A baby incubator comprising a cabinet having an open and closed compartment, a movable partition between said compartments, a lower support extending through both of said compartments, thermostatically controlled heating means for said closed compartment, means for ventilating said closed compartment, and a humidifier positioned in said closed compartment.

1,947,008
CELLULOSE DERIVATIVE COMPOSITION
Emmette F. Izard, Elsmere, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application May 19, 1931, Serial No. 538,613. Divided and this application May 14, 1932. Serial No. 611,437
8 Claims. (Cl. 106—40)

1. A composition comprising a cellulose derivative and an ester formed by esterifying a halogenated fatty acid having from 2–4 carbon atoms, inclusive, with a polyhydric alcohol having from 2–6 carbon atoms, inclusive.

1,947,009
GOVERNOR
Francis A. Jimerson, Athens, and Frank V. Allen, Sayre, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application September 3, 1932. Serial No. 631,650
1 Claim. (Cl. 264—17)



A governor comprising a rotary guide member having a pair of mutually perpendicular grooves in an end thereof, a projection on the other end

of the guide member and being threaded externally for engagement with a rotating member, a cover for the grooves, a finger on the cover slidably interlocked with the guide member, an inclined surface on the cover overlying the outer ends of the grooves, balls in the grooves and being actuated centrifugally against the inclined surface to move the cover longitudinally of the guide member, a stem on the cover extending slidably through the guide member and the projection to retain the cover in coaxial relationship with the guide member, a nut on the stem, and a spring acting against the nut and the projection to resist the centrifugal force of the balls and interlockingly engaging the nut and the projection to maintain the nut in adjusted position.

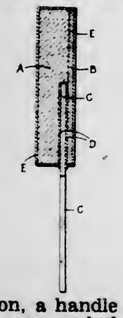
1,947,010

FROZEN CONFECTION

Robcliff V. Jones, Bronxville, N. Y., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey

Application February 27, 1932. Serial No. 595,469

5 Claims. (Cl. 99—16)



1. In a confection, a handle member, a wafer of pastry enveloping one end of said handle member, and a block of edible material having a side equal in area to one side of said wafer, said block of edible material being secured to said wafer by adhesion.

1,947,011

CHUTE FOR MATERIAL TO BE SHOT

Bruno Karthäuser, Berlin, Germany, assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania

Application November 18, 1932, Serial No. 643,266, and in Germany November 13, 1931

2 Claims. (Cl. 193—2)



1. In a chute for materials, comprising sloping substantially conical top and bottom walls and diverging side walls, said top and bottom walls terminating at their lower ends in slightly inclined front and rear walls respectively, a substantially cylindrical extension provided at the upper end of said chute, and said bottom wall of said chute making a greater angle with the horizontal than the said top wall thereof whereby clogging of the chute by materials passing therethrough is prevented.

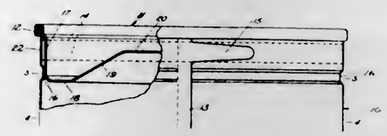
1,947,012

KEY OPENING SANITARY CAN

Paul H. Lange, Bridgeport, Conn.

Application July 1, 1932. Serial No. 620,371

1 Claim. (Cl. 220—54)



A can comprising a body having a top secured thereto, said body having an inwardly disposed side seam, said body having scoring providing a tear-off strip to permit severance of the body beneath said top, said body having an internal bead below said top and extending around the can starting and stopping at the side seam thereof and of a depth equal to the height of the side seam on the inner surface of the can whereby the inner surfaces of the bead and seam form a continuous line, said top including a countersunk portion providing a wall extending into the can, and said top adapted to be used as a slip cover for said can and have its wall snugly engage the inner surface of said bead after the removal of said tear-off strip.

1,947,013

WINDSHIELD HEATER

George Y. Lauchin, Milwaukee, Wis.

Application August 7, 1933. Serial No. 683,995

2 Claims. (Cl. 15—250)



1. In a windshield wiper, a wiper blade including an elongated body having spaced parallel side walls and a connecting outer wall, the side walls being compressed adjacent to the opposite ends of the body into relative close position whereby to form a housing open at its inner face only, wiper members disposed in close engagement with the inside walls of the body and projecting beyond the free longitudinal edges of the same, and a clamping block removably held between said side walls for holding the wiper members in position against accidental displacement.

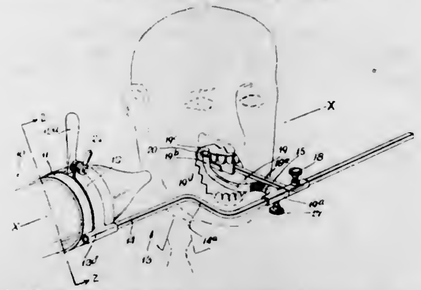
1,947,014

X-RAY APPARATUS

Roman J. Levy, New York, N. Y., assignor to Antonina Levy, New York, N. Y.

Application January 17, 1927. Serial No. 161,502

16 Claims. (Cl. 250—34)



1. A device of the character described comprising an elongated member having one end adapted to mount the device to extend from an X-ray apparatus, a carrier having one end slidably mounted on said member, the other end of said carrier terminating in a film engaging means, an indicator having an end slidably mounted on said member, the free end of said indicator being formed with a surface adapted to be applied and conform to a portion of the contour of the region to be photographed to aid in producing undistorted pictures on a film in said engaging means.

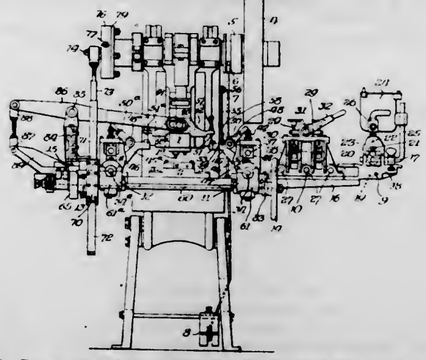
1,947,015

STRIP STOCK FEED FOR PRESSES

Frederick J. Littell, Chicago, Ill., assignor to F. J. Littell Machine Co., Chicago, Ill., a corporation of Illinois

Application April 28, 1928. Serial No. 273,500

10 Claims. (Cl. 271—2.4)



1. In a machine for feeding punch presses, a feeding unit adapted to draw stock into the machine and present it to the press, said feeding unit comprising a lower shaft carrying a feed roll, an upper shaft carrying a feed roll, said upper roll being movable vertically relatively to the lower roll to interrupt the feed, a quick opening lifting arm for raising said upper roll, a detent for holding down said lifting arm when said roll is voluntarily raised, means automatically moving said detent to release position, and a vertically reciprocating member adapted to engage said lifting arm during the operation of the press.

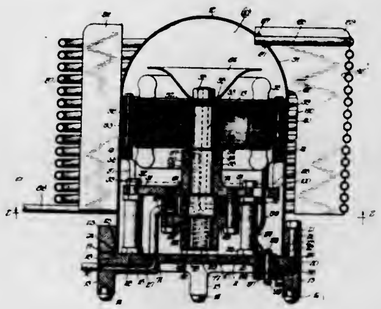
1,947,016

COMPRESSION UNIT

Edward B. Mallory, Tenafly, N. J., assignor, by mesne assignments, to Lipman Patents Corporation, Chicago, Ill., a corporation of Delaware

Application June 27, 1929. Serial No. 374,015

4 Claims. (Cl. 230—207)



2. A refrigerating machine comprising, a closed container, a compressor in said container having a shaft and having a discharge port extending axially through said shaft, said discharge port discharging into said closed container from the end of said shaft at a point eccentric to the center of said shaft and serving as an oil separator.

1,947,017

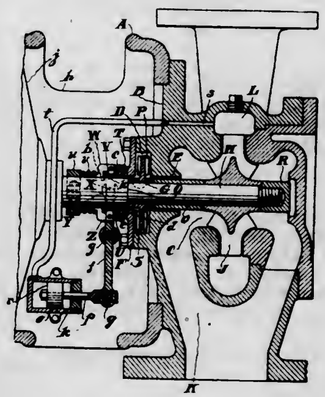
SEALING DEVICE

Anthony L. McHugh, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application December 22, 1932

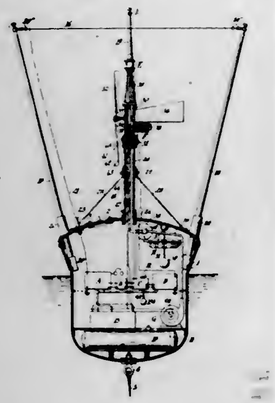
Serial No. 648,377

5 Claims. (Cl. 286—9)



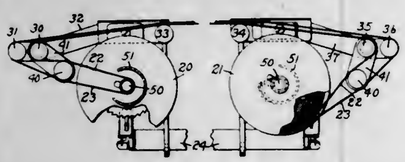
1. A sealing device for a pump casing having a bore, a shaft in the bore, a packing device cooperating with the casing to seal the bore and being rotatable with and slidable upon the shaft, pressure fluid actuated means for maintaining the sealing device out of contact with the casing during the operative period of the pump, and means for actuating the sealing device into sealing relationship with the casing during the idle period of the pump.

1,947,018
COURSE INDICATING AND SIGNALING APPARATUS
Rubino Plastino, New York, N. Y.
Application November 26, 1927
Serial No. 235,879
5 Claims. (Cl. 250—2)



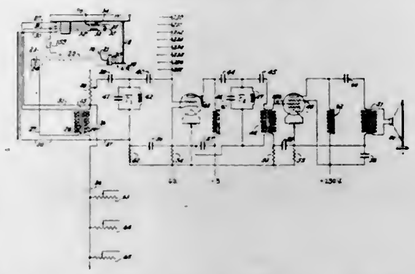
1. Apparatus for aiding aerial and marine navigation, said apparatus including a wireless transmitter, automatic signal timing mechanism adapted to cause said transmitter to send out a succession of signals, a wireless receiver, a relay controlled by signals received by said receiver and controlling the output of said transmitter whereby incoming signals will be relayed by such transmitter, an electric circuit connecting said automatic signal timing mechanism with said transmitter, a self-closing contact controlling said circuit, retarding means to delay the closing of said circuit by said contact, and electromagnetic means controlled by the said energy output of the receiver and adapted to move said contact to disconnect the automatic signal timing mechanism from the transmitter when a signal is received by the receiver, the disconnection being maintained by said retarding means whereby signals received within predetermined intervals one of the other may be relayed by the transmitter without interference by the said automatic signal timing mechanism.

1,947,019
DOUBLE RIBBON MECHANISM
Ernest Racz, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application February 27, 1931. Serial No. 518,607
10 Claims. (Cl. 197—153)



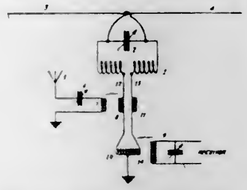
1. In a machine of the class described, a pair of ribbon reels, plural webs of ribbon extending from one reel to the other, means guiding said webs past the printing line of the machine, means for winding said webs from one reel to the other, and means for translating the tension of one web to the other for automatically maintaining the tension of said webs substantially equal while they are being wound from one reel to the other.

1,947,020
ELECTRICAL MUSIC SYSTEM
Richard Howland Ranger, Newark, N. J.
Application May 29, 1931. Serial No. 541,062
18 Claims. (Cl. 84—1)



1. In an electrical music system, a plurality of generators of complex tones equal in number to the notes of the system, a plurality of tone-filtering devices each capable of segregating the fundamental tone of a single one of said generators, as well as those upper partial tones of other generators which approach said fundamental tone more closely in frequency than they do any other fundamental tone, from all other tones of the system, and means for reproducing simultaneously the tones passed by said tone-filtering devices.

1,947,021
DIRECTIONAL AERIAL
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 1, 1929. Serial No. 343,710
2 Claims. (Cl. 250—33)

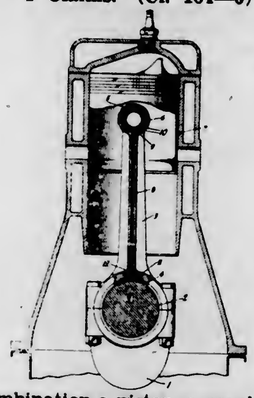


1. In a directional aerial system the combination of a loop aerial of appreciable axial length, and a pair of crossed open ended linear conductors parallel with the axis of said loop, opposite ends of said conductors being connected to the ends of said loop aerial.

1,947,022
MINER'S LAMP
Otto Schneider, Dresden, Germany, assignor, by mesne assignments, to Marshall Van Winkle, Jr., Jersey City, N. J.
Application November 4, 1930, Serial No. 493,318, and in Germany November 15, 1929
12 Claims. (Cl. 240—11.3)

8. In a miner's lamp, an incandescent lamp bulb, an opalescent glass protector therefor having a dome-shaped top, and a concave reflector spaced above the top of the protector and conforming substantially to the curve of the top of the protector.

1,947,023
PISTON PIN LUBRICATION SYSTEM
Fred G. Shoemaker, Ferndale, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
Application April 5, 1933. Serial No. 664,504
4 Claims. (Cl. 184—6)



1. In combination a piston, a crank shaft with a crank pin, a connecting rod with a small end bearing in the piston and a big end bearing on the crank pin, the small end bearing being continuously loaded in one direction by a cyclically varying load, a zone of maximum oil film pressure in the big end bearing at a maximum pressure greater than that which is required to support the load on the small end bearing when this is at its lowest value in any cycle, an oil duct leading from this zone to the continuously loaded zone of the small end bearing, and means to accumulate oil in the duct at a pressure higher than the loading on the small end bearing when this is at its lowest value in any cycle, the oil pressure in the duct tending to be equal to the maximum oil film pressure of the big end bearing, whereby the load on the small end bearing is lifted off the continuously loaded zone of the bearing by the oil in the duct at least once in each cycle of load variation, and an oil film thereby maintained between the continuously loaded zone of the small end and the load thereon.

1,947,024
CHEMICAL TREATMENT OF FABRICS
Edgar A. Slagle, Cranford, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 22, 1930
Serial No. 422,676
5 Claims. (Cl. 91—68)

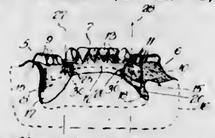
2. The process of treating woolen fabric which comprises subecting said fabric to a colloidal solution of barium sulphate.

1,947,025
TOY WHEEL
John C. Turner, Dayton, Ohio
Application July 26, 1930. Serial No. 471,043
1 Claim. (Cl. 287—52)



In a toy wheel, the combination with a split axial bushing with its free axial edges punched to provide a pair of oppositely disposed U-shaped notches, a spindle insertible in said bushing, and an ear on said spindle, the notches in the bushing adapted to close around said ear to form a rectangular slot to tightly receive it.

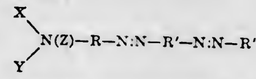
1,947,026
DENTURE
Charles H. Wharton, Chicago, Ill.
Application November 27, 1931
Serial No. 577,478
8 Claims. (Cl. 32—4)



6. A sectionalized denture comprising right and left hand posterior denture parts carrying posterior teeth, an anterior denture part carrying anterior teeth and disposed between and constituting with said posterior parts a full lower denture, said denture parts having abutting ends with slots adjacent said ends and crank-like connectors between said parts and provided with eccentric pins engaging in said slots.

1,947,027
AZO DYES
Harold Edward Woodward, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 1, 1931
Serial No. 578,420
12 Claims. (Cl. 260—83)

1. A chemical compound having the probable general formula:



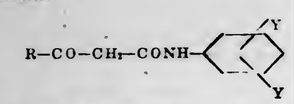
wherein R is an aromatic radical of the benzene series containing no sulfonic or carboxylic groups, R' is an aromatic residue of the benzene or naph-

thalene series with the azo groups para to each other and containing no sulfonic or carboxylic groups, R'' is a naphthol containing no sulfonic or carboxylic groups, X is a member of the group consisting of an alkyl radical and hydrogen, Y is a member of the group consisting of an alkyl radical and an aromatic radical of the benzene series, and Z is a member of the group consisting of

$$-\overset{|}{C}=O \text{ or } O=\overset{|}{S}=O.$$

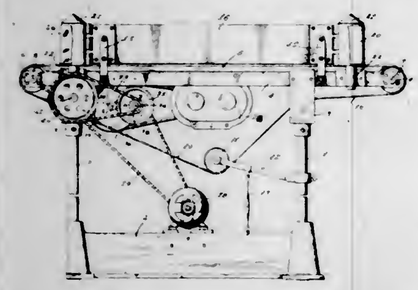
1,947,028
AZO DYES AND METHODS FOR THEIR PREPARATION
Harold Edward Woodward, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 2, 1932
Serial No. 631,504
12 Claims. (Cl. 260—86)

1. A process for producing insoluble azo dyes which comprises coupling diazotized nitro-aniline which has substituted thereon a member of the group consisting of halogen, alkoxy, and benzyl-oxy, with a compound having the following general formula:



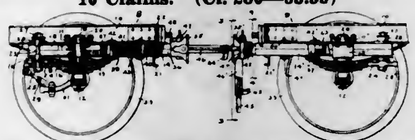
in which R represents an alkyl, phenyl, or benzyl radical, and Y represents an alkoxy, benzyl-oxy, or benzyl radical.

1,947,029
VIBRATING MACHINE FOR SETTLING CONTENTS OF BAGS
Charles F. Allison and Paul Naeher, Chicago, Ill., assignors to B. F. Gump Co., Chicago, Ill., a corporation of Illinois
Application July 6, 1931. Serial No. 548,911
1 Claim. (Cl. 259—1)



In a machine for settling and packing the contents of a container, an elongated resilient platform, means fixedly supporting said platform near its ends, a conveyor belt supported for traveling movement slidable on the platform, spaced guide walls above said platform, means for adjusting said guide walls, a pair of vertical pulleys at each end of said guide walls, vertical belts trained over said pulleys for traveling movement along the inner surfaces of said guide walls, and vibratory means suspended supported by said elongated platform for vibrating the same.

1,947,030
TRAILER COUPLING
Eugene Scott Baber, Indianapolis, Ind.
Application April 25, 1932. Serial No. 607,364
10 Claims. (Cl. 280—33.55)



10. In a coupling for a plurality of vehicles, a drawbar for each vehicle, a member pivoted to one of said drawbars to swing vertically said member having a coupling eye on its outer end, the other of said drawbars being recessed to receive the coupling eye without lateral play and a coupling pin passing vertically through the recess and eye.

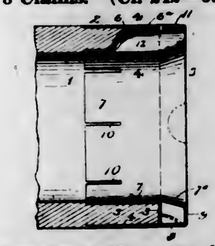
1,947,031
INSOLE AND PROCESS OF MAKING SHOES THEREWITH
William H. Bain, University City, Mo.
Application August 19, 1932. Serial No. 629,420
5 Claims. (Cl. 12—142)



1. An insole comprising a forepart of relatively thin and flexible material, a shank piece of relatively thick and inflexible material, and a backing piece removably secured to said forepart, said backing piece being made of a material having a greater tensile strength and stiffness than said forepart.

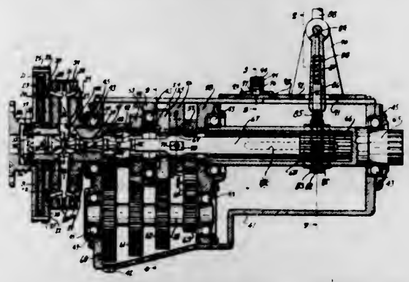
4. The process of making shoes having an insole with a relatively thick and inflexible shank piece and a relatively thin and flexible forepart of single thickness which comprises temporarily securing to the forepart of said insole a backing piece of relatively greater tensile strength and stiffness than said forepart, placing said insole on a last with said backing piece in engagement therewith, cementing a shoe upper to said insole, laying on an outsole, removing said last and said backing piece and then sewing said outsole to said upper and said shank piece.

1,947,032
EXTENSION CORE CAP
Edwin W. Bebie, Hawthorne, N. J., assignor to International Paper Company, New York, N. Y., a corporation of New York
Application December 10, 1931
Serial No. 580,069
8 Claims. (Cl. 242—68)



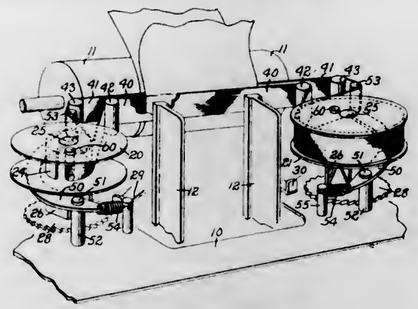
2. In combination with a core for paper rolls, a core cap applied to the end thereof to adapt the core for mounting and operation in a machine, said core cap having its external surface extending flush with the external surface of the core, and an extension cap applied to the main cap to increase the overall length of the core structure, and having its external surface extending flush with the external surface of the main cap.

1,947,033
CLUTCH AND TRANSMISSION MECHANISM
Eugene S. Bush, St. Louis, Mo., assignor to Bush Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application January 9, 1932. Serial No. 585,683
20 Claims. (Cl. 192—3.5)



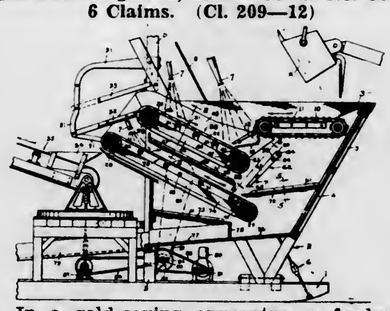
1. In an assembly including a friction clutch and a gear-type transmission, a gear-driven member, movable along its axis for speed-change control purposes, a control element common to said clutch and member, and a plurality of gear-engaging and clutch-actuating projections on said member, said projections being so arranged and spaced as to coordinate, in a definite sequence, the control movements of the clutch and transmission, as the control element is moved in one direction.

1,947,034
DOUBLE RIBBON MECHANISM
Thomas M. Butler, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application February 26, 1931. Serial No. 518,412
11 Claims. (Cl. 197—153)



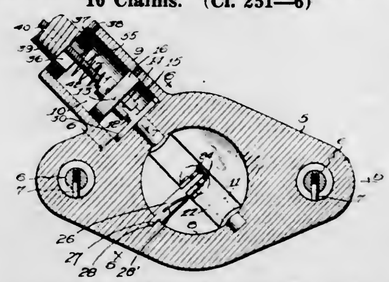
11. In a duplicating machine having a plurality of pairs of ribbon guides, a pair of ribbon spools and a ribbon, the ends whereof are attached to one spool and the loops carried through said respective pairs of guides with the bight of said ribbon being slidably secured to the other of said ribbon spools.

1,947,035
GOLD-SAVING APPARATUS
General L. Covington, Chehalis, Wash.
Application August 1, 1931. Serial No. 554,440
6 Claims. (Cl. 209—12)



1. In a gold-saving apparatus, a feeder for placer material, a traveling grizzly screen device operative on said material in screening the workable portions from the unworkable portions, a diverting pan for receiving and discharging the screened material, an inclined sluice floor for receiving the screened material from said pan, an assembly of grizzly bars operative on the screened material, a second sluice floor disposed below said bars and inclined in a direction reversely of the first sluice floor, a second traveling grizzly screen device for receiving the material from said bars and the second sluice floor and separating said material so as to provide finer workable portions, a third sluice floor disposed below said second device and inclined in a direction reversely of the second sluice floor, and gold-saving elements mounted on one or more of said floors.

1,947,036
AUTOMOBILE LOCKING MECHANISM
Thomas F. Cullinan, Johnson City, Tenn.
Application March 2, 1933. Serial No. 659,357
10 Claims. (Cl. 251—6)

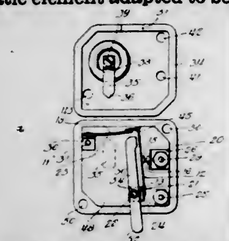


1. A motor lock of the character described, comprising a valve mounting adapted to be arranged between a manifold and a carbureter, a butterfly valve arranged in said mounting, a shaft bearing in said valve, a latch carried by said shaft, a recess in the wall of the mounting to be engaged by said latch, and means for operating the valve and shaft.

1,947,037
CIRCUIT BREAKER
James C. Daley, Chicago, Ill., assignor to Jefferson Electric Company, Chicago, Ill., a corporation of Illinois
Application July 2, 1930. Serial No. 465,328
6 Claims. (Cl. 200—116)

1. In an automatic circuit breaker, in combination, a stationary contact member, a movable contact member adapted to contact with said sta-

tionary contact member and tending to move out of contact with said stationary contact member, a thermostatic element adapted to be positioned to



hold said movable contact member in contact with said stationary contact member, and a spark terminal spaced from said thermostatic element and forming a spark gap therebetween.

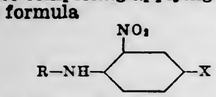
1,947,038
COLORATION OF MATERIALS MADE WITH OR CONTAINING CELLULOSE ACETATE

George Holland Ellis and Henry Charles Olpin, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application October 8, 1928, Serial No. 311,252, and in Great Britain November 7, 1927

3 Claims. (Cl. 8—5)

1. Process for dyeing materials comprising cellulose acetate comprising applying thereto a body having the formula



where R is a benzene ring containing an alkyl group or an acetyl amino group and X is a halogen.

1,947,039
TREATMENT OF TEXTILE MATERIALS

George Holland Ellis, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application July 14, 1930, Serial No. 467,967, and in Great Britain August 13, 1929

10 Claims. (Cl. 8—5)

1. Process for avoiding creasing in the liquid treatment of textile fabrics in folded form comprising unsaponified filaments of an organic derivative of cellulose, comprising first subjecting the materials to a treatment with non-saponifying aqueous liquids for at least two hours while in unfolded form and then subjecting them to the desired liquid treatment in folded form.

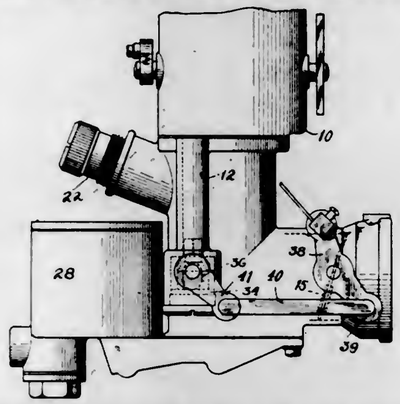
1,947,040
AUTOMATIC BY-PASS VALVE

David Firth, Flint, Mich., assignor to Marvel Carbureter Co., Flint, Mich., a corporation of Illinois

Application August 12, 1929. Serial No. 385,195

6 Claims. (Cl. 123—119)

1. In combination with a carbureter, a choke valve, and a throttle valve therefor, a bypass passage around said throttle valve location, the discharge end of said passage being subjected to the suction above the throttle while the inlet end of said passage is positioned adjacent the normal carbureter mixture producing arrangements to draw a fuel and air mixture therefrom, an automatic valve so positioned in said bypass passage as to be closed by extreme suction therein, and



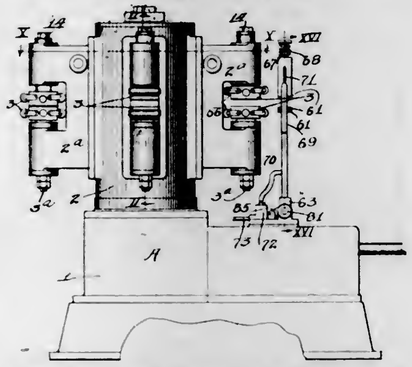
means operated in unison with the choke valve for preventing the closing of said automatic valve upon a partial closure of said choke valve.

1,947,041
TAB APPLYING MACHINE

Victor Gideon, Chicago, Ill., assignor to Wilson-Jones Company, a corporation of Massachusetts

Application October 5, 1929. Serial No. 397,577

8 Claims. (Cl. 93—1)



1. In a machine of the class described, a rotatable turret, horizontal sheet gripping devices carried by said turret, means for periodically heating said gripping devices, means for separating said gripping devices for receiving a sheet, and a movable cam for closing said gripping devices upon receiving a sheet, and mechanism for seizing and discharging the sheet at a predetermined point.

1,947,042
MASSAGE DEVICE

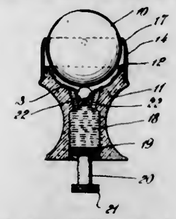
William S. Glennan, Norfolk, Va.

Application July 10, 1930. Serial No. 466,961

5 Claims. (Cl. 128—57)

1. In a massage device, the combination of a hollow ball containing a separate heat-responsive material, a holder therefor having a cup adjacent said ball, a supply of massaging material in engagement with said ball, and a ring on the

holder enclosing the ball and removable for replenishment of the massaging material, where-



by rotation of said ball over a surface supplies massaging material thereto.

1,947,043
HEADLIGHT SYSTEM FOR AUTOMOTIVE VEHICLES

Hayner H. Gordon, Washington, D. C., assignor, by direct and mesne assignments, to Lite Watchman Corporation, New York, N. Y., a corporation of Delaware

Application December 11, 1929
Serial No. 413,296
5 Claims. (Cl. 240—7.1)



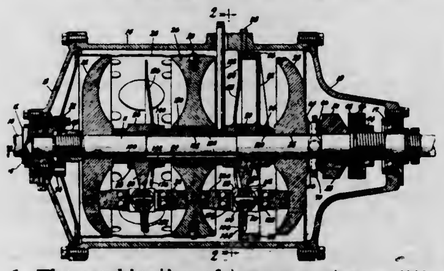
1. In a headlight system for automotive vehicles, the combination with a pair of headlights, of prismatic means formed on said headlight lenses for deflecting a beam of light from each headlight to the other and then reprojecting said light substantially parallel with the normal beam of light projected from the latter headlight.

1,947,044
FRICTION TRANSMISSION

Winfield D. Gove, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware

Application June 11, 1931. Serial No. 543,633

12 Claims. (Cl. 74—200)



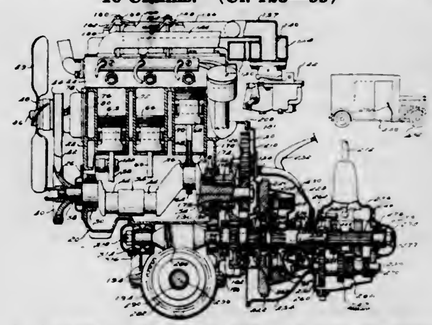
1. The combination of two power transmitting members comprising a race and a roller; elastic means yieldable in response to the tractive force applied to the roller for positioning the roller with its periphery in tractive engagement with one face of the race and its axis of power transmitting rotation normally in a plane including the roller center and the race axis, said roller being freely movable to vary its path of tractive contact with the race; and external control means, responsive to any yielding movement of the roller positioning means causing displacement of the roller axis out of said plane, effective to incline said roller and roller axis in a sense that will cause said roller to assume a position wherein it transmits a lower output speed.

1,947,045
POWER PLANT

Roscoe C. Hoffman, Detroit, Mich.

Application October 9, 1931. Serial No. 567,783

18 Claims. (Cl. 123—55)



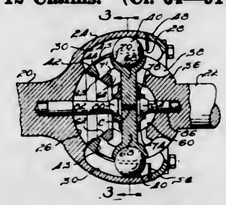
1. A power plant including, in combination, a unitary internal combustion having a pair of spaced, parallel crank shafts, a hollow drive shaft operatively connected to both of said crank shafts for receiving driving movement therefrom, a speed change mechanism at one end of said hollow shaft and operatively connected thereto, and a drive mechanism at the other end of said hollow shaft interconnected with said speed change mechanism through said hollow shaft.

1,947,046
UNIVERSAL JOINT

Roscoe C. Hoffman, Detroit, Mich.

Application February 20, 1933. Serial No. 657,694

12 Claims. (Cl. 64—91)



1. A universal joint comprising a pair of shaft sections, a shell fixed to one of said sections provided with a partially spherical inner surface, a hollow ball member fixed to the other of said sections within said shell in concentric relation therewith, the opposed surfaces of said shell and said ball member having a plurality of axially disposed opposed grooves therein, a ball received by each opposed pair of said grooves, and means for maintaining said balls in proper operative relationship including retainers each having a shank disposed radially of said ball member and projecting into the hollow interior of said ball member, opposed fingers on the outer end of each of said retainers movable in said grooves in said ball member and engageable with opposite faces of the corresponding of said balls, a socket member within the hollow interior of said ball member slidably receiving the shanks of said retainers, and means cooperating between said shell, said socket and said ball member for moving said socket member through one-half of the angle through which one of said shafts is displaced relative to the other thereof.

1,947,047
VAT DYESTUFFS OF THE DIBENZANTHRONE SERIES AND PROCESS OF PREPARING THE SAME

Edward T. Howell, Milwaukee, Wis., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, a corporation of Delaware

No Drawing. Application November 21, 1929
Serial No. 408,939
17 Claims. (Cl. 260—61)

1. The process of producing vat dyestuffs, which comprises etherifying hydroxy derivatives of dibenzanthrones with an alkylating agent of the general formula

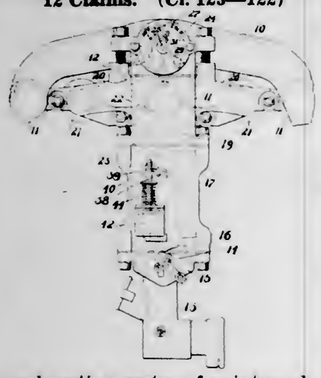
$$Y—CH_2—CH_2—X—CH_2—CH_2—Z,$$

wherein X is an oxygen atom, an imine group or a sulfur atom, and wherein Y and Z both stand for the same or different strong acid radicals, or where one of the substituents Y or Z stands for a strong acid radical while the other stands for an ether or ester radical.

1,947,048
VACUUM CONTROLLED CARBURETOR HEATER

Charles H. Kirby, Flint, Mich., assignor to Marvel Carbureter Company, Flint, Mich., a corporation of Illinois

Application August 12, 1929. Serial No. 385,383
12 Claims. (Cl. 123—122)



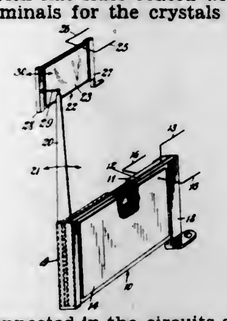
1. A carbureting system for internal combustion engines including a carbureting device, a manifold forming a mixture passage connected to said device, heating means enveloping a portion of said mixture passage, means subdividing said passage into concentric heated and unheated zones, and means for diverting the mixture from one zone to the other to vary the heating effect of said heating means.

1,947,049
AMPLIFYING SYSTEM

Earl L. Koch, Chicago, Ill., assignor, by mesne assignments, to Earl L. Koch Holding Corporation, New York, N. Y., a corporation of New York

Application April 16, 1932. Serial No. 605,647
3 Claims. (Cl. 179—171)

1. In an amplifier in combination, an electronic device having a crystal connected to the output circuit thereof, a second electronic device having a crystal connected to the input circuit thereof, said crystals each having one end secured to a rigid support and each opposite end movable, each of said crystals having a flat rectangular formation with flat sides coated with metal foil forming terminals for the crystals whereby the

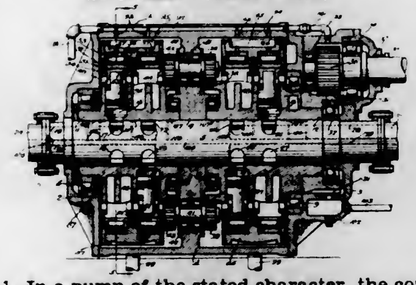


same are connected in the circuits aforesaid and means connecting the movable ends of said crystals.

1,947,050
MULTISTAGE REVERSIBLE VARIABLE DISCHARGE PUMP

Albert R. Kuzelewski, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 18, 1931. Serial No. 545,298
21 Claims. (Cl. 103—161)

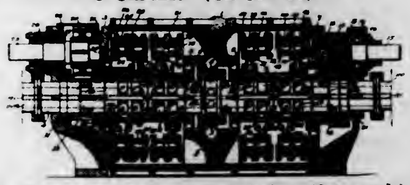


1. In a pump of the stated character, the combination with a housing, of cylindrical valve means supported within said housing, a pair of cylinder bodies concentric with said valve and each having a series of radial cylinders, said valve means having ports respectively cooperative with the cylinders of the respective bodies, and means for rotating the cylinder bodies in the housing including a geared transmission operatively connecting said bodies, said geared transmission being mounted independently of and in spaced relation with said valve.

1,947,051
HYDRAULIC TRANSMISSION

Albert R. Kuzelewski, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 16, 1932. Serial No. 605,737
9 Claims. (Cl. 60—53)

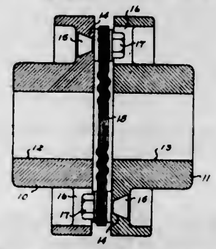


1. In an hydraulic transmission, the combination with a pump, of a fluid motor comprising a plurality of units, one or more pistons operating in each of said units, means for maintaining the pistons of one of said units on a predetermined fixed stroke, means for operatively connecting said units to the pump for joint actuation, and means for varying the stroke of the pistons of another of said units to thereby regulate the speeds and torques delivered by said motor.

1,947,052
POWER TRANSMISSION COUPLING

Arnold S. Lack, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application July 17, 1929. Serial No. 378,871
7 Claims. (Cl. 64—96)

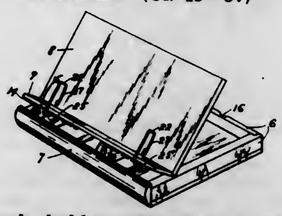


1. A flexible member for connecting the shaft-mounted portions of a flexible coupling, and including an assembly of substantially radially corrugated sheet-metal laminations disposed in incompletely nested relation, the adjacent corrugations of each lamination being contiguously grouped and reversely curved, said assembly constituting an angularly and laterally flexible annular ring, each lamination thereof provided with peripheral plane portions between the groups of its corrugations, the laminations being assembled with the corrugations of corresponding groups in frictional relation over spaced zones within each group and normally spaced from each other between such zones, and means connecting the plane portions adjacent each group of corrugations, to opposite shaft-mounted coupling portions.

1,947,053
BOOKHOLDER

Ray W. Mason, Spokane, Wash.

Application June 19, 1933. Serial No. 676,458
4 Claims. (Cl. 45—57)

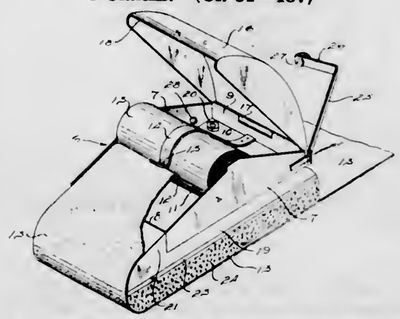


1. A book holder comprising a base board having upstanding flanged edges, a major and a minor book rest member pivotally connected together and to said upstanding flanged edges, said two book rest members serving as a closure for the base and its flanged edges in their lowered position, a bracket support hinged to the base and foldable therein, and the top edge of said support cut in V-form whereby same is adapted to support the book rest members in a pivotally raised position when said bracket support is raised to a vertical position.

1,947,054
ABRADING AND POLISHING DEVICE

William E. McReynolds, Detroit, Mich., assignor to Hugh E. Woodard, Detroit, Mich.

Application September 12, 1931
Serial No. 562,487
3 Claims. (Cl. 51—187)

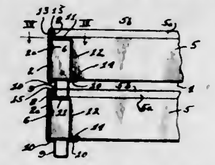


1. An abrading and polishing device including a flexible pad, a backing for said pad, a container secured to said backing, a roll of abrasive or polishing material rotatably disposed in said container, spring means for maintaining said roll in position, a cover hinged to said container and adapted to clamp the abrasive and polishing material against the forward edge of the container to prevent unrolling of the material when the cover is closed and a spring clamp hinged at the rear of the container to releasably secure one end of the abrasive and polishing material at the rear portion of the pad after it has been extended over the rubbing surface of the pad.

1,947,055
STARCH TRAY

Charles L. Moorman, Chicago, Ill., assignor to Wepsco Steel Products Co., Blue Island, Ill., a corporation of Illinois

Application July 5, 1932. Serial No. 620,901
7 Claims. (Cl. 220—97)



1. A starch tray comprising a box-like structure, two opposite sides of said structure being hollow, the outside wall of each side having an opening for receiving one's hand whereby the tray may be carried about without danger of disturbing the contents of the tray or of soiling the hands therewith.

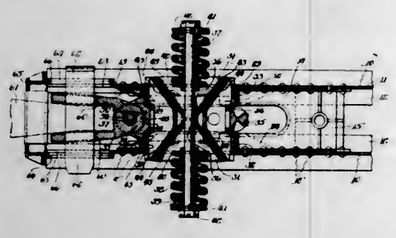
1,947,056
DRAFT GEAR

Alfred H. Oelkers, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application January 21, 1929. Serial No. 333,757
9 Claims. (Cl. 213—38)

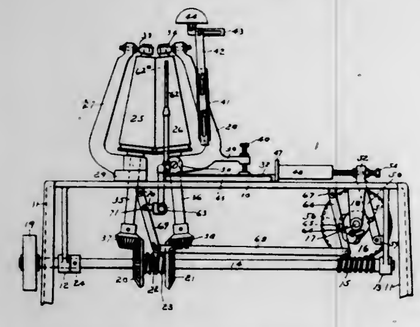
7. In a draft rigging, the combination of draft sills, a draft appliance therebetween, said appliance including a draft gear, a yoke associated with said draft gear, said yoke and draft gear being interlocked to prevent relative lateral movement, and means for maintaining said draft

gear against lateral displacement, said means including members secured to said sills and having



inwardly disposed flanges engageable with said yoke.

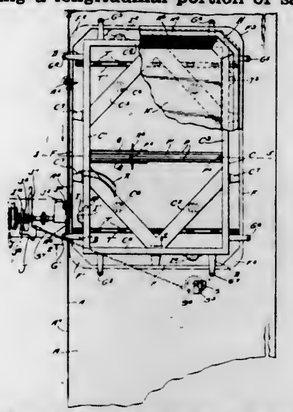
1,947,057
SIZING OR STIFFENING MACHINE
William J. Ollinger, New York, and Charles Niedhammer, Sunnyside, N. Y.
Application November 23, 1931
Serial No. 576,778
3 Claims. (Cl. 223—32)



1. In a hat sizing machine comprising a stand on top of which is mounted a pair of tapered, coacting, vertical sizing rollers rotatable in opposite directions by means of driving members mounted on a continuously-rotating shaft and one of which rollers is slidingly movable in relation to the other roller; co-acting clutch members associated with the driving members mounted on the continuously-rotating shaft, the driving member which drives the slidingly mounted roller being free to rotate on the continuously-rotating shaft, and spring means tending to separate the driving members so as to disengage the clutch members and stop the rotation of the slidingly mounted roller.

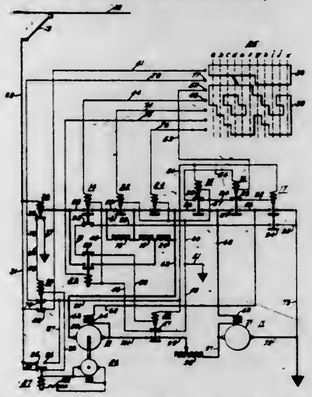
1,947,058
MACHINE FOR SEWING MATTRESS COVERS
Louis E. Pittoni, Jamaica, N. Y., assignor to The Rome Company, Inc., Rome, N. Y., a corporation of New York
Application April 26, 1929. Serial No. 358,240
8 Claims. (Cl. 112—3)

1. A mattress stitching machine comprising in combination with a mattress supporting table, a carrier supporting said table, and a stitcher mechanism located at one side of said carrier, means for moving said carrier and table relative to said stitcher mechanism, means for guiding said carrier during a longitudinal portion of said move-



ment, and separate means for guiding said carrier during another portion of said movement.

1,947,059
MOTOR CONTROL SYSTEM
Amos A. Ponsonby, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application September 1, 1931. Serial No. 560,561
5 Claims. (Cl. 172—179)

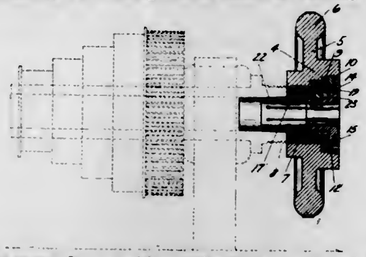


1. In a control system for an electric vehicle in combination, a plurality of propelling motors, a source of power for the motors, a plurality of switches for controlling the operation of the motors, a controller for normally controlling the switches to accelerate the motors, and means responsive to the speed of the vehicle for automatically actuating said switches to establish dynamic braking connections for the motors independently of the position of the controller to prevent the vehicle from being operated above a predetermined speed.

1,947,060
COLLET CHUCK
Anton Reimers, Davenport, Iowa
Application June 1, 1931. Serial No. 541,340
4 Claims. (Cl. 279—49)

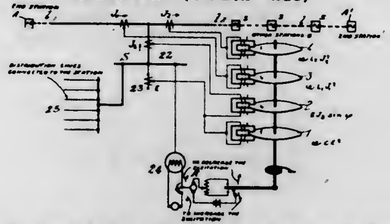
1. The combination with a hollow threaded member, of a chuck having a body portion with an opening therethrough threaded to engage with

said member so as to move lengthwise along the same upon rotation of said chuck relative to said member, said body portion having a recess in the end face thereof surrounding said opening and constituting an enlargement thereof facing out-



wardly away from said member, means in said recess providing an abutment projecting into said opening, and a flanged collar detachably mounted in said recess to provide an abutment spaced from said first mentioned abutment.

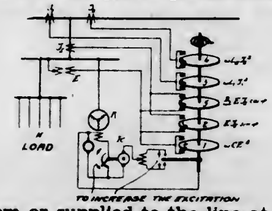
1,947,061
ALTERNATING CURRENT LONG DISTANCE LINE
Reinhold Rudenberg, Berlin - Grunewald, Germany, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania
Application January 31, 1929, Serial No. 336,405, and in Germany December 5, 1928. Renewed August 10, 1933
6 Claims. (Cl. 172—246)



1. A long distance line connected to a source of alternating current, comprising at least one station having means for compensating the wattless energy in the line, an indicator adapted to control said compensating means and comprising three distinct means severally and independently responsible, respectively, to three segregated values, viz. the inductive wattless output of the currents traversing said long line, the wattless output fed into said line at the place of the compensating means, and an output corresponding with the capacitive wattless power of said long line.

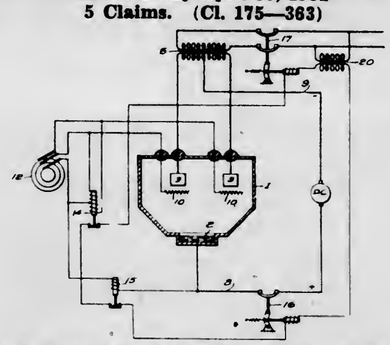
1,947,062
ALTERNATING CURRENT LONG DISTANCE LINE
Reinhold Rudenberg, Berlin-Grunewald, Germany, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application February 8, 1929. Serial No. 338,435, and in Germany December 21, 1928
9 Claims. (Cl. 172—246)

3. An alternating-current transmission line, power-supply and load circuits connected thereto, wattless-current generating means intermediately connected to said line, and means for regulating said wattless-current generating means, characterized by the fact that said regulating means comprises means segregatively responsive to the in-phase power current with-



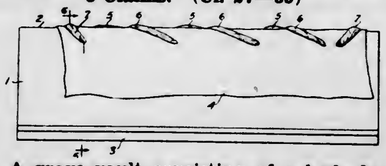
drawn from or supplied to the line at any wattless-current station for causing the supply of a wattless-current component substantially proportional to said in-phase power current.

1,947,063
PROTECTION OF CONTROLLED RECTIFIERS
Moritz Schenkel, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application April 27, 1932, Serial No. 607,761, and in Germany April 30, 1931
5 Claims. (Cl. 175—363)



4. A protective system for a control rectifier comprising an A. C. supply circuit, a D. C. load circuit, a vapor electric device for supplying current to the D. C. circuit from the A. C. circuit, a grid in the vapor electric device for controlling the voltage of the D. C. circuit, a source of potential for the grids, an under voltage relay connected to said source and a breaker in the A. C. circuit responsive to operation of the relay to disconnect the device from the supply circuit.

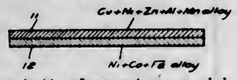
1,947,064
GRAVE VAULT
Elisha Harrison Scott, Richmond, Ind., assignor to W. N. Johnson Automobile Sheet Metal Works, Richmond, Ind., a corporation of Indiana
Application May 25, 1933. Serial No. 672,851
3 Claims. (Cl. 27—35)



1. A grave vault consisting of a body having ends, sides and a top, a reinforcing portion bounded by a raised margin on each side extending

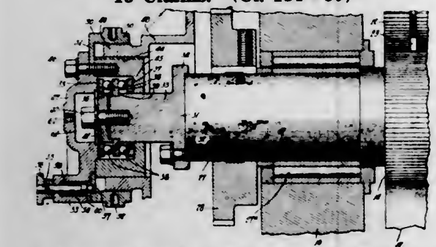
longitudinally along each side intermediate the ends of the vault and the bottoms of the sides, each of said longitudinal margins being joined by transverse raised margins located adjacent the ends of the vault, the portion of the vault lying intermediate said longitudinal and transverse margins constituting said reinforcing portion.

1,947,065
BIMETAL THERMOSTAT
Howard Scott, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application April 23, 1930. Serial No. 446,779
5 Claims. (Cl. 297—15)



1. A thermostatic element comprising a pair of cooperating metallic members having different temperature coefficients of expansion, the member having the higher temperature coefficient of expansion being an alloy including from 20% to 40% nickel, 60% to 25% copper and 20% to 35% zinc and the member having the lower temperature coefficient of expansion being an iron alloy including from 30% to 39% nickel, from 2% to 10% cobalt and traces of manganese and carbon.

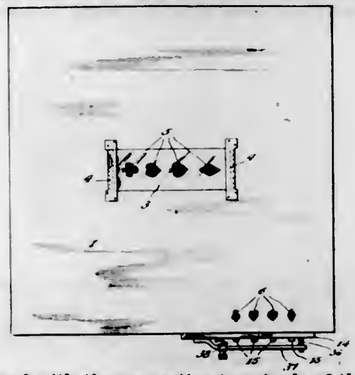
1,947,066
CORRUGATOR
Karl Sieg, Philadelphia, Pa., assignor to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey
Application December 14, 1932
Serial No. 647,160
13 Claims. (Cl. 154—30)



1. A corrugator including a pair of intermeshing corrugating rollers, one having circumferential grooves therein, guide members extending into said grooves, and means for adjusting one of said corrugating rollers axially in respect to the other to bring different portions of one corrugating roller opposite to the circumferential grooves of the other.

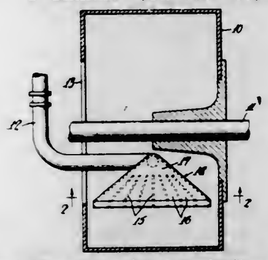
1,947,067
INDICATOR FOR CARD TABLES
William Smith, Omaha, Nebr.
Application June 6, 1932. Serial No. 615,751
1 Claim. (Cl. 273—148)

An indicator for card tables comprising a playing surface having a transparent plate disposed centrally thereof and having card pips displayed thereon, the entire playing surface around the transparent plate being opaque and devoid of surface projections, a battery supported beneath the playing surface, lamps arranged adjacent the transparent plate and each disposed to illuminate one of the pips on the plate, there being a row of opaque card pips disposed adjacent one edge of the playing surface and corresponding to the pips on the transparent plate, electrical connections between the battery and the several lamps including longitudinally and pivotally adjustable arms



engaged with the respective terminals of the battery, and means interposed in the electrical connections and arranged opposite the opaque pips for selectively closing circuits through the lamps.

1,947,068
CENTRIFUGAL SEPARATOR
Gustav ter Meer, Munich, Germany, assignor to Albert T. Otto & Sons, New York, N. Y., a corporation of New York
Application April 14, 1932, Serial No. 605,153, and in Germany May 7, 1931
5 Claims. (Cl. 210—63)

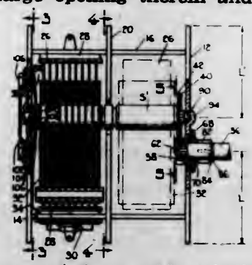


1. A centrifugal machine including a rotatable drum, a supply pipe therefor, and a distributing member in said drum, comprising a fan shaped tubular member having the smaller inlet end thereof connected to said pipe, and having the outlet end thereof extending over substantially the entire width of the drum, said member being divided into a plurality of adjacent diverging tubular channels with the inlet ends thereof adjacent to the outlet end of said pipe, whereby the material supplied through said pipe is uniformly distributed to said diverging channels, and delivered into the interior of the drum substantially uniformly along substantially the entire width of the drum.

1,947,069
VARIABLE CONDENSER
Leslie G. Thomas, Englewood, N. J., assignor to De Jur-Amsco Corporation, New York, N. Y., a corporation of New York
Application March 9, 1933. Serial No. 660,120
5 Cla'ms. (Cl. 74—7)

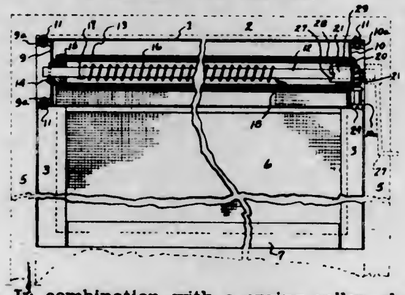
1. A radio condenser comprising a frame having metallic end plates, stator plates insulatedly mounted in said frame, a rotor shaft terminating

at both ends at the end plates of the frame, means mounting the same in the frame, rotor plates on said shaft interleaving with the stator plates, a control shaft projecting from one of said end plates at a point offset from the rotor shaft, the inner end of said control shaft terminating just inside of the end plate, said end plate having a relatively large opening therein and a bushing



detachably mounted on said end plate at said opening and carrying said control shaft, and reduction gearing interconnecting the control shaft and the condenser shaft, said gearing including a pinion mounted at the inner end of the control shaft and a gear mounted on the adjacent end of the rotor shaft, said pinion being sufficiently small in diameter to pass through the aforesaid opening in the end plate.

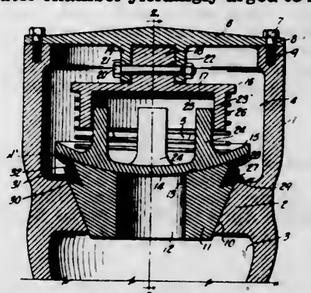
1,947,070
DEVICE FOR CONTROLLING TENSION OF SPRING ROLLERS
Clifford Traut, Newport, Ky., assignor to The Higgin Manufacturing Company, Newport, Ky., a corporation of West Virginia
Application July 29, 1932. Serial No. 625,849
5 Claims. (Cl. 156—39)



5. In combination with a spring roller, shaft and housing, a gear, a ratchet connection between said gear and said shaft, said connection being releasable, and a tension spring connecting said roller and said shaft so as to urge said shaft into contact with said gear.

1,947,071
VALVE
George W. Walton, Dallas, Tex.
Application October 26, 1931. Serial No. 571,102
3 Claims. (Cl. 251—144)

1. A valve including a housing having a partition dividing the interior of the housing into inner and outer chambers and having a through opening, a ring fitted to the partition opening and extending into the outer chamber having a valve seat on its outer end and having a groove in its extension shaped to form an outwardly diverging side wall, a packing ring in said groove having an inner lip overlying the joint between the seat ring and partition and an outer lip forming an extension of the valve seat, and a valve in the outer chamber yieldingly urged to said seat,



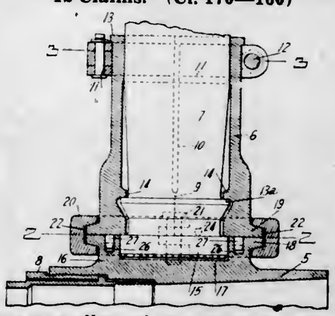
the lips of the packing ring being responsive to fluid pressure in the outer chamber to seal the joints between the seat ring and the partition and between the valve and its seat.

1,947,072
EXPANSION JOINT
Robert C. Walton and Herbert T. Gudgen, Coffeyville, Kans.
Application October 19, 1932. Serial No. 638,545
4 Claims. (Cl. 285—162)



1. An expansion joint including an outer tubular member, an inner tubular member slidable in the outer tubular member and of smaller diameter to form an annular space therebetween, a packing stop means fixed relatively to one of the tubular members and slidable relatively to the other of said members, a packing element in said space and seated against said stop means, a second packing element in the annular space, means spacing said packing elements to provide an annular lubricant-containing chamber therebetween protected against leakage of a fluid thereinto from the interior and exterior of the expansion joint by said packing elements, means for supplying lubricant to said chamber, and a compressing element adjustably fixed to the tubular member which fixes said packing stop means to compress said packing elements into sealing relation with said tubular members.

1,947,073
PROPELLER
John Mark Wilson, Osborn, Ohio
Application February 11, 1933. Serial No. 656,227
12 Claims. (Cl. 170—160)



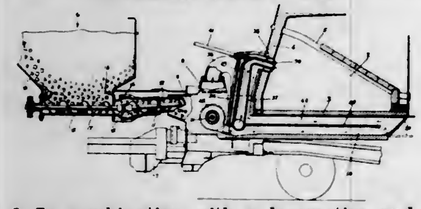
1. In a propeller, a hub comprising a body portion and a blade socket separate from said body portion, said body portion having an annular

boss on which said socket is seated, said socket having an opening through the inner end thereof of a diameter less than the interior diameter of said boss, a blade having at its inner end a head, means for securing said blade in said socket with said head arranged beyond and overlapping the inner end of said socket, and means for detachably securing said socket to said body portion with the blade head seated in said boss.

1,947,074
FUEL-FEEDING APPARATUS FOR LOCOMOTIVES

Henry Yoerg, St. Paul, Minn.

Application April 27, 1931. Serial No. 533,168
11 Claims. (Cl. 110—104)

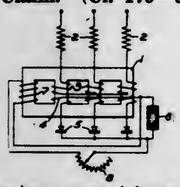


3. In combination with a locomotive and its fire box, fuel pulverizing means, means for conveying pulverized fuel from said pulverizing means to the locomotive fire box, said conveying means including a nozzle positioned to project the fuel into the locomotive fire box, a steam pipe connected with said nozzle and adapted to project steam therethrough, whereby pulverized fuel is drawn through said conveying means and projected into the fire box, an air jacket surrounding portions of the walls of said conveying means, means for heating the air circulated through said air jacket to preheat the fuel passing through said conveying means, and said nozzle being surrounded by a coaxial air passage communicating with said air jacket and from which heated air may be discharged into the fire box to intermix with the fuel and steam discharging from said nozzle.

1,947,075
DRY RECTIFIER

Friedrich Bauer and Eduard Wilhelm Kafka, Berlin-Charlottenburg, Germany, assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania

Application April 2, 1931, Serial No. 527,140, and in Germany April 4, 1930
1 Claim. (Cl. 175—363)

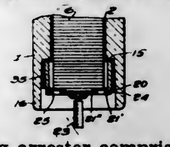


A rectifier system comprising a reactor having a plurality of legs, a polyphase alternating current input circuit having coils on the legs except one of said reactor, inductance means in series with said alternating current input circuit, an output circuit connected to said reactor, rectifying means in series with said output circuit, and means in shunt with said output circuit for finely varying the degree of saturation of the magnetic circuit of the reactor comprising a direct current coil on the leg of said reactor that does not have an alternating current coil thereon and means for regulating the value of the direct current through said coil.

1,947,076
LIGHTNING ARRESTER

Russell V. Beckett and Charles L. Jones, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania

Application May 28, 1930. Serial No. 456,347
19 Claims. (Cl. 175—215)

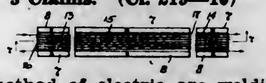


2. A lightning arrester comprising an insulating casing-assembly having a chamber therein, lightning-arrester means in said chamber, a solder-receiving glaze about the mouth of said chamber, a closure composed of a plurality of parts soldered to said glaze, a conductor secured to said closure, said parts being in good thermal contact for detaching at least a portion of said closure upon continued current-flow through the arrester means.

1,947,077
ARC WELDING

Everett Chapman, Cleveland, Ohio, assignor to The Lincoln Electric Company, Cleveland, Ohio, a corporation of Ohio

Application April 30, 1930. Serial No. 448,756
3 Claims. (Cl. 219—10)

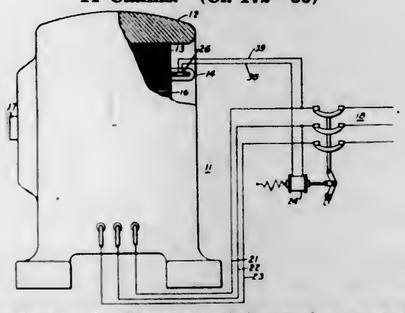


1. The method of electric arc welding which consists in presenting a suitable electrode in arcing relation to the work, relatively moving such work and electrode to cause the latter to follow the line to be welded, and directing the blow of the arc by establishing a flow of magnetic flux transversely of the direction of such relative movement, the intensity of such flux being greatest at the ends of the work than at intermediate points.

1,947,078
MOTOR THERMAL RELAY

Harold E. Cobb, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application November 11, 1931
Serial No. 574,277
11 Claims. (Cl. 172—36)

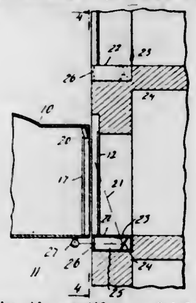


1. In a motor having a stator and an energizing winding including overlapping end turn portions, a thermal relay having a thermally-actuable element mounted within the end turn portions and supported thereby outside of the stator.

1,947,079
SAFETY DEVICE FOR VEHICLE DOORS

Charles E. Ellis, Jr., New York, N. Y., assignor, by mesne assignments, to Westinghouse Electric Elevator Company, Chicago, Ill., a corporation of Illinois

Application May 31, 1929. Serial No. 367,581
3 Claims. (Cl. 187—52)

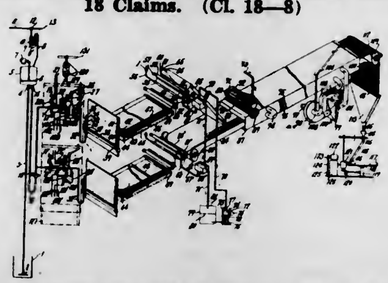


1. In combination with a vehicle door, a source directing a beam of light across the doorway, a light sensitive cell in said beam of light, mechanism for moving said door, means connecting said cell and said mechanism whereby the cell controls the mechanism, and means responsive to the closing operation of the door near its closed position for rendering said cell ineffective to control said mechanism.

1,947,080
METHOD AND APPARATUS FOR MAKING ELASTIC FILAMENTS

Willis A. Gibbons, Montclair, N. J., Eardley Hazell, New York, N. Y., and Alexis W. Keen, Passaic, N. J., assignors to Revere Rubber Company, Providence, R. I., a corporation of Rhode Island

Application March 11, 1931. Serial No. 521,640
18 Claims. (Cl. 18—8)



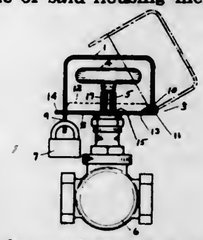
1. A process for making rubber articles which comprises streaming a water dispersion of rubber into a coagulant under an automatically controlled constant hydrostatic head, continuously withdrawing coagulated streams of rubber from the coagulant, washing said streams free of coagulant, dusting same to render them non-adhesive, and drying in a heated gaseous medium.

1,947,081
GUARD FOR VALVES

Thomas Grady and Frank E. Wochley, Pittsburgh, Pa.

Application April 8, 1933. Serial No. 665,156
6 Claims. (Cl. 70—125)

1. A guard for a valve having a handle secured to the tip of its operating stem, said guard comprising a housing formed of two members hinged together and adapted to be assembled upon said valve stem and closed over said handle, said housing including means opposite the point of hinging adapted to be interlocked by a padlock, whereby the valve is protected against tampering, said means comprising a tongue integrated with the wall of one of said housing members, and a co-

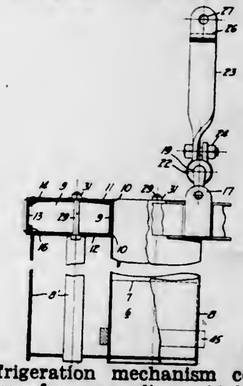


operating element integrated with the wall of the second of said housing members, and a flange integrated with one of said housing members and extending peripherally thereof, whereby in service the line of meeting of said housing members is located within and protected by said flange.

1,947,082
REFRIGERATION MECHANISM

Alfred B. Haslacher, San Francisco, Calif.

Application November 2, 1931. Serial No. 572,457
7 Claims. (Cl. 62—169.1)

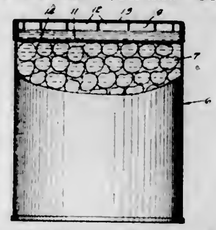


1. A refrigeration mechanism comprising a frame, means for suspending said frame, a pair of plates mounted on said frame, a collar clamped between said plates, and a container mounted on said collar.

1,947,083
CONTAINER

Alfred B. Haslacher, San Francisco, Calif.

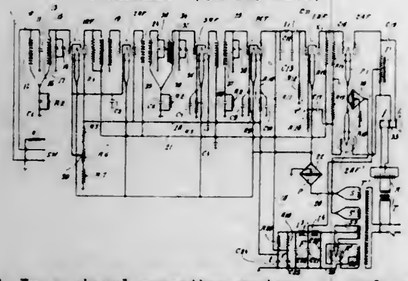
Application August 9, 1930. Serial No. 474,116
3 Claims. (Cl. 220—93)



1. The combination with a cylindrical container of a perforated plate axially movable in

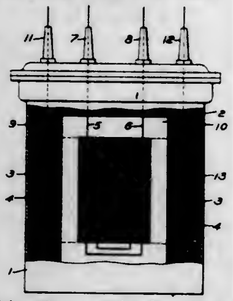
said container and having an upturned edge forming a substantially continuous flange frictionally engaging the wall of said cylindrical container to hold said plate in any axial position, and a separate cover engaging one end of said container and limiting the axial movement of said plate in one direction.

1,947,084
SIGNAL REPEATING SYSTEM
Harold R. Hayden, New York, N. Y.
Application September 30, 1932
Serial No. 635,509
7 Claims. (Cl. 179—171)



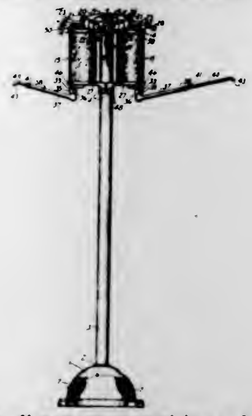
1. In a signal repeating system, a push pull stage comprising two vacuum tubes, a stage preceding said push pull stage comprising a vacuum tube having impedances in its plate supply and plate return circuits, a connection between a point of relatively negative potential of the former of said impedances and the grid of one of said push pull tubes, a connection between a point of relatively positive potential of the later of said impedances and the grid of the other of said push pull tubes, means for supplying a plate circuit electrode of said preceding tube with current subject to variations, and means for supplying the grid of said preceding tube with variations of substantially the same frequency and bearing a predetermined relation in phase and magnitude to said first named variations so as substantially to reduce disturbing variations in the output of the system.

1,947,085
ELECTRICAL APPARATUS
Charles F. Hill, Edgewood, and James T. Goff, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania
Application September 22, 1931
Serial No. 564,280
6 Claims. (Cl. 175—361)



1. In combination, a tank, electrical apparatus contained therein, and heat conducting and insulating material disposed between said apparatus and said tank comprising a mixture of quartz sand and an impregnating jelled vegetable oil.

1,947,086
SOAP DISPENSER
Newton S. Hillyard, St. Joseph, Mo.
Application February 15, 1932. Serial No. 593,021
13 Claims. (Cl. 221—94)



1. A soap dispenser comprising a base, a hollow standard carried thereby, a pair of containers carried by the upper end of said standard, an outlet port for each container, an independently operable valve for each of said ports, and means including a pair of rods extending longitudinally through the standard and operatively connected to the respective valves for actuating said valves.

1,947,087
GAS TORCH
Edward S. Huff, Dearborn, Mich.
Application July 25, 1928. Serial No. 295,235
1 Claim. (Cl. 158—109)

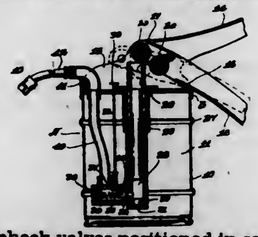


The combination of a pair of couplings 4 and 11 having bores therethrough, a screwed pipe 2 joining said couplings, a casing 3 engaging said couplings at its ends and surrounding same, a nipple in the delivery end of said pipe 2, a supply nipple engaging in the bore of one of said couplings 11, a delivery pipe engaging in the bore of the other of said couplings 4, an aperture through said casing and an aperturne through the wall of the last named coupling 4 opening into the bore of said coupling at the delivery end of said nipple at one end and to the chamber formed between the casing 3 and pipe 2 at the other end.

1,947,088
ADJUSTABLE AND RELEASABLE PRESSURE GREASE GUN
John S. Johnson and August Johnson, Fargo, N. Dak.; Theodore L. Johnson, administrator of said John S. Johnson, deceased, assignors to Jiffy Lubricator Company
Application July 7, 1930. Serial No. 465,807
16 Claims. (Cl. 221—47.3)

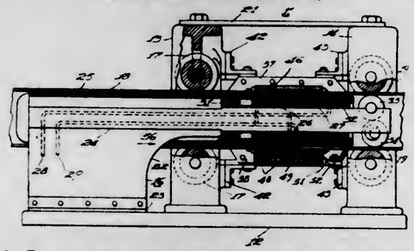
1. An adjustable, releasable pressure grease gun including, a grease receptacle, a cover for said receptacle, a pump having check valves associated

therewith carried as a unit by said cover and extending into the lower part of said receptacle, an inlet and an outlet from said pump each open throughout the stroke of the pump in one direc-



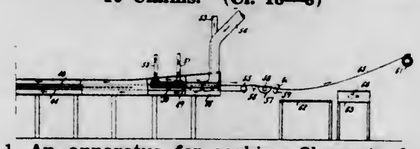
tion, said check valves positioned in said inlet and outlet, an adjustable operating lever for said pump adapted to be positioned for low and high pressure and anti-friction means on said lever for engagement with said pump.

1,947,089
PIPE WELDING
Carl G. Jones, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application February 17, 1931. Serial No. 516,296
15 Claims. (Cl. 219—6)



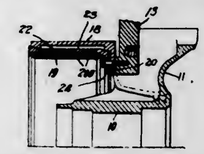
1. In a system for heating a piece of material, a main coil traversed by an al ernating current and positioned to supply energy to heat the piece of material inductively, an auxiliary coil disposed in inductive relation to the main coil and circuit means connecting the auxiliary coil to the piece of material to conduct current thereto.

1,947,090
APPARATUS FOR MAKING RUBBER FILAMENTS
Alexis W. Keen, Passaic, N. J., assignor to Revere Rubber Company, Providence, R. I., a corporation of Rhode Island
Application July 24, 1931. Serial No. 552,850
10 Claims. (Cl. 18—8)



1. An apparatus for making filaments from aqueous dispersions of rubber comprising, in combination, a coagulant bath, means for delivering an aqueous dispersion of rubber in a continuous stream of uniform quality and cross section into the coagulant bath, a hot gas drier, a hot gas vulcanizer, a continuously advancing conveyor in said dryer and vulcanizer, and means for conducting the coagulated s'ream directly from said coagulant bath onto said conveyor.

1,947,091
BRAKE
Charles G. Keller, Poughkeepsie, N. Y.
Application June 28, 1927. Serial No. 201,990
4 Claims. (Cl. 188—218)



2. A brake drum comprising an inner rim and an outer rim, one of said rims having a flange at its open edge engaging the other rim for spacing the inner rim peripherally from the outer rim, and means for securing the rims together.

1,947,092
SOLUBLE INK FOUNTAIN PEN
Russell B. Kingman, Orange, N. J.
Application July 8, 1933. Serial No. 679,507
4 Claims. (Cl. 120—42)

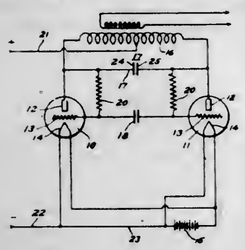


1. In a soluble ink fountain pen, a solvent reservoir, a feed means to deliver writing fluid to the pen nib, means intermediate said feed means and said solvent reservoir adapted to provide a mixing chamber, ink-pellet admission means communicating with the upper end of said solvent reservoir through which an ink-pellet may be passed to descend through said reservoir and into said mixing chamber, means to normally close said admission means, said mixing chamber having means to trap a pellet entered therein against escape therefrom.

1,947,093
CONVERTER
Dewey D. Knowles, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application November 21, 1929
Serial No. 408,789
7 Claims. (Cl. 250—36)

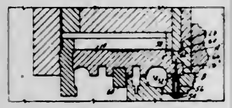
1. In a converter system, a plurality of electric-discharge devices of the grid-glow type, an oscillatory output circuit comprising a condenser connected between the anodes of the devices, a connection including a coupling condenser between the grids of the devices, and a resistor connected between the anode and the grid of each of the devices, whereby the devices are caused

to become alternately conductive and non-conductive upon the application of direct-current



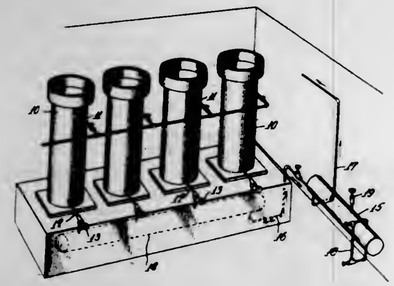
potentials between an intermediate point on said output circuit and the cathodes of said devices.

1,947,094
WINDOW FRAME CONSTRUCTION
Sern Madsen, Clinton, Iowa, assignor to Curtis Companies, Incorporated, Clinton, Iowa, a corporation of Iowa
Application February 23, 1932. Serial No. 594,575
12 Claims. (Cl. 20—11)



9. In a window frame construction, a jamb, an inside stop applied thereon, said stop having parallel front and rear faces, a groove formed in the rear face thereof and a rib formed on said jamb to coact with said groove to provide limited lateral adjustment of said stop relative to said jamb.

1,947,095
APPARATUS FOR PURGING REFRIGERATING SYSTEMS
Edward B. McCabe, Carbondale, Pa., assignor to Carbondale Machine Company, Carbondale, Pa., a corporation of Pennsylvania
Application August 11, 1932. Serial No. 628,303
5 Claims. (Cl. 62—115)

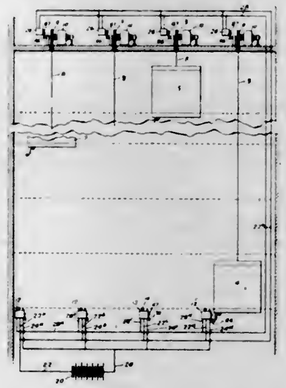


1. A refrigerating apparatus including a condenser, a main receiver for the liquefied refrigerant, an auxiliary receiver, a pipe connection between the lower part of said main receiver and the lower part of said auxiliary receiver for delivering all of the liquid refrigerant to said auxiliary receiver, a main liquid delivery conduit from the lower part of said auxiliary receiver, and a gas vent valve connected to the upper part of said auxiliary receiver.

1,947,096
INSULATING MATERIAL
Leon McCulloch, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
No Drawing. Application December 14, 1928
Serial No. 326,153
3 Claims. (Cl. 154—2.6)

1. An insulating material comprising a plurality of layers of asbestos paper which have been rolled to crush conducting particles, each layer of paper comprising asbestos bound together with a partially carbonized organic material.

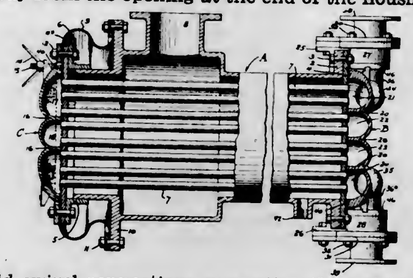
1,947,097
ELEVATOR SIGNALING MECHANISM
Robert A. Neuschotz, New York, and William Leibfried, Jamaica, N. Y.; said Leibfried assignor to said Neuschotz
Application January 15, 1926. Serial No. 81,373
18 Claims. (Cl. 177—336)



1. In combination with a plurality of elevator shafts and elevators movable therein, a dispatching system including individual signaling devices for said elevators positioned adjacent a predetermined landing, means actuated by the approach of the corresponding elevator to a point near said landing for preparing said signaling devices for operation, means controlled by the approach of another of said elevators within a predetermined distance of said landing for operating said signaling device after the same has been prepared for operation and means for delaying operation of said signaling device until the elevator to receive the signal has remained at said landing a predetermined time.

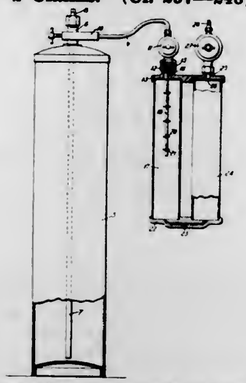
1,947,098
HEAT EXCHANGER
Edward M. O'Donnell, San Francisco, Calif.
Application May 22, 1933. Serial No. 672,241
5 Claims. (Cl. 257—240)

1. In a heat exchanger a cylindrical housing having an open end, a closure for said open end, said closure being formed with inlet and outlet ports, a fluid conduit connecting with each of said ports, and a swivel joint in each of said conduits whereby the closure may be swung to and away from the opening at the end of the housing,



said swivel connections supporting the weight of the end closure.

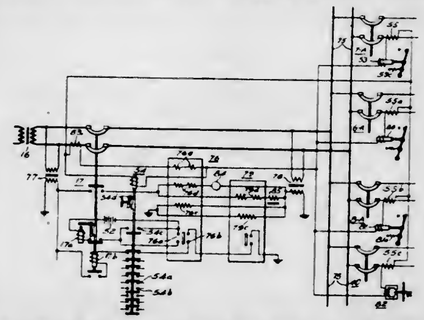
1,947,099
LIQUID GAS VAPORIZER
Maurice E. Painter, Dayton, Ohio
Application July 6, 1931. Serial No. 548,847
2 Claims. (Cl. 257—248)
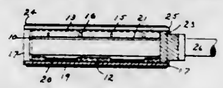


1. An apparatus for converting liquefied hydrocarbon gases comprising a pair of hollow members, a base for said members, a passageway formed in said base and communicating at its ends with the interior of said hollow members, a top for said hollow members, an inlet port formed in said top and communicating with the interior of one of said members, a spray pipe removably carried by said top, said spray pipe being in communication with said inlet port, an outlet port formed in said top and communicating with the interior of the remaining hollow member, and pressure regulating means carried by said top for regulating the pressure of liquid entering into and gases passing from said hollow members.

1,947,100
MEDIUM VOLTAGE NETWORK DISTRIBUTION SYSTEM
John S. Parsons, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 1, 1933. Serial No. 654,637
6 Claims. (Cl. 175—294)

2. In an alternating current distribution system of the network type, a plurality of network mains arranged and connected to form a closed mesh, a plurality of transformers for supplying power to a plurality of intersections of said mesh, a transformer circuit breaker for controlling the connection of each of said transformers to the corresponding intersection of said mesh, a pair of network circuit breakers for each of said mains for controlling the connection of the corresponding main and the adjacent intersections of said mesh, opening means for each of said network circuit breakers, each of said opening means including an over-current relay of a type operable with increasingly short time delay in response to increasingly severe over-current conditions, said relays being effective to cause opening of the corresponding network circuit breaker in response to a fault on the corresponding main in advance of the attainment of opening conditions for the relays of adjacent mains if the said transformer circuit breaker for the intervening intersection is closed, time-controlled voltage-responsive reclosing means for each of said network circuit breakers, each of said reclosing means being effective to reclose the corresponding network circuit breaker after a time delay of at least a predetermined magnitude when either the adjacent intersection or the corresponding main is energized, and means for locking out each of said network circuit breakers after one reclosure thereof and a subsequent opening thereof within a predetermined short time interval, whereby upon the occurrence of a non-clearing fault on any of said mains, a plurality of said network circuit breakers are opened and closed in a sequence which leaves the faulted main disconnected and the remainder of said mains energized, regardless of the number of said transformer circuit breakers closed at the time of the fault.

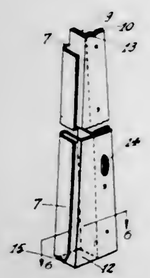


1,947,101
BREAST BUFFER
Vincent Pascuzzi, Brooklyn, N. Y.
Application May 16, 1932. Serial No. 611,617
5 Claims. (Cl. 51—194)



1. In a buffer of the class described; a pair of hinged, semi-circular, sheet metal halves comprising a body member mountable on an arbor having a longitudinal groove; inwardly extending, co-acting flanges for clamping the edges of an abrasive sheet; a piece of resilient material secured on the outside of the body member; an abrasive sheet encircling the resilient material and having its edges held between said flanges; and the flanges of the body member insertable in said groove, so as to cause them to securely clamp the edges of the abrasive sheet and to cause the whole buffer to rotate with the arbor when that is rotated.

1,947,102
DEVICE FOR INSTALLING WINDOW SCREENS
Edward W. Pendery, Newport, Ky., assignor to The Higgin Manufacturing Company, Newport, Ky., a corporation of West Virginia
Application April 16, 1928. Serial No. 270,255
17 Claims. (Cl. 156—14)



1. A screen application device comprising a U-shaped member adapted to grip a window frame, a member adapted to form a seat for a screen edge, and a connection of varying width between said members, whereby said members are closer together at one end of the device than at the other.

1,947,103
METHOD OF PRODUCING ABSORBENT OR RESILIENT FELT
Joseph E. Plumstead, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa., a corporation of Massachusetts
No Drawing. Application August 22, 1931, Serial No. 558,826. Renewed May 27, 1933
76 Claims. (Cl. 92—9)

1. The method of treating cellulosic fibrous material for producing an absorbent felted product, comprising employing finished or prepared cellulosic fibrous pulp which has been previously cleansed by neutralizing and dissolving the cementaceous intercellular substances, and treating said finished or prepared cellulosic fibrous pulp with a fibre curling or kinking agent and with material having the function of stepping up the reactivity of the fibre curling or kinking agent.

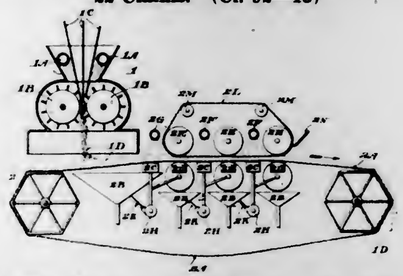
1,947,104
FIBROUS FELTING OR FELTED PAPER PRODUCT AND PROCESS OF MAKING SAME
Joseph E. Plumstead, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa., a corporation of Massachusetts
Application September 9, 1932. Serial No. 632,454
14 Claims. (Cl. 92—21)

1. The hereindescribed process comprising treating artificially curled or kinked copper compound impregnated cellulose fibres with an ammonia compound to form a mucilaginous coating on the fibres simultaneously with the production of the felted sheet so that a finished product of increased strength is formed.

1,947,105
METHOD OF PRODUCING ABSORBENT OR RESILIENT FELT
Joseph E. Plumstead, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa., a corporation of Massachusetts
No Drawing. Application August 19, 1931 Serial No. 558,185
8 Claims. (Cl. 92—9)

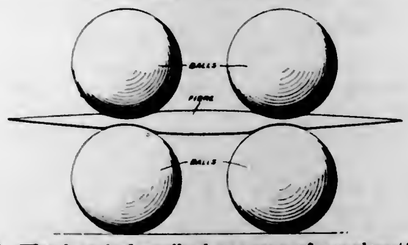
1. The method comprising treating finished or prepared cellulosic fibrous pulp material with sodium sulfide solution, producing kinking, curling, or crimping of the pulp fibres which had been previously finished or cleansed of cementitious inter-cellular substances.

1,947,106
METHOD OF PRODUCING ABSORBENT FELT
Joseph E. Plumstead, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa., a corporation of Massachusetts
Application August 19, 1931. Serial No. 558,184
Renewed November 23, 1933
22 Claims. (Cl. 92—13)



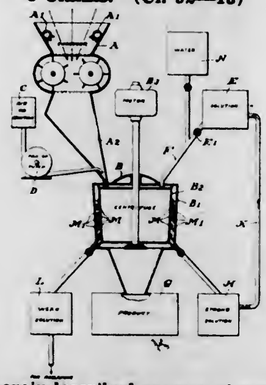
1. The hereindescribed process of producing curled pulp for the production of a highly absorbent felted sheet, consisting in showering fibrous cellulosic pulp with treating solution, shredding and defelting the pulp in the presence of the treating solution, delivering the shredded defelted showered pulp material to a screen for flushing the treating solution therethrough and therefrom by gravity, passing the shredded impregnated material between presser rolls to flush the treating solution therethrough in intimate contact with the separated individual fibres and to remove treating solution by pressure.

1,947,107
METHOD OF PRODUCING ABSORBENT OR RESILIENT FELT
Joseph E. Plumstead, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa., a corporation of Massachusetts
Application September 4, 1931. Serial No. 561,242
41 Claims. (Cl. 92—13)



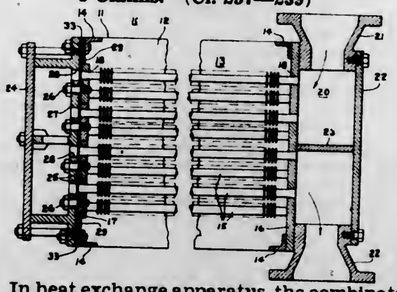
1. The hereindescribed process of accelerating the kinking, curling, and crimping of finished or prepared cellulosic fibres consisting in bruising the individual fibres at one or more points on the length of the fibre, and treating the fibres with a physico-chemically reactive treating solution, thereby causing selective or pronounced reactivity of the treating solution at the bruised points, and consequent accelerated curling of the fibres.

1,947,108
METHOD OF PRODUCING ABSORBENT AND RESILIENT FELT
Joseph E. Plumstead, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa., a corporation of Massachusetts
Application September 5, 1931, Serial No. 561,479
Renewed January 8, 1934
8 Claims. (Cl. 92—13)



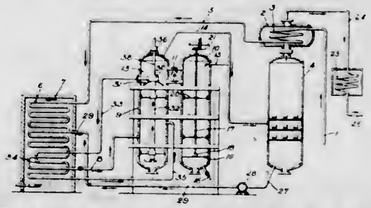
1. The hereindescribed process of curling fibres for making absorbing paper comprising introducing finished or prepared cellulosic paper felting fibrous material into a centrifuge, building up a layer of said fibres in pulp form on the wall of the centrifuge by the centrifugal action thereof, and flushing caustic soda solution of non-mercerizing strength through the fibres by said centrifugal action, said fibres being free from restraint tending to retard or prevent them from curling, substantially as described.

1,947,109
HEAT EXCHANGE APPARATUS
John A. Potter, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 20, 1932
Serial No. 634,041
3 Claims. (Cl. 257—239)



1. In heat exchange apparatus, the combination of a shell structure defining a heat transfer chamber; tube sheets disposed at opposite sides of the chamber and having openings therethrough; tubes extending through the chamber and having their ends extending within the openings in the tube sheets; the ends of the tubes being rigidly secured to their respective tube sheets; a header structure rigidly secured to one of the tube sheets and defining a chamber for supplying fluid to or receiving fluid from the tubes; and means for securing the header structure to the shell structure comprising an elastic gasket member interposed between the structures and disposed in a plane normal to the longitudinal dimension of the tubes, a stud member passing through the gasket member and connected to the shell and header in such a manner as to permit relative movement therebetween; and means on the stud member for limiting the movement of the header and shell away from each other so as to prevent breaking of the fluid-tight seal provided by the gasket member.

1,947,110
APPARATUS FOR CRACKING HYDROCARBON OILS
Ross C. Powell, Forest Hills, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 9, 1931. Serial No. 514,412
3 Claims. (Cl. 196—107)

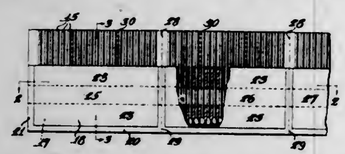


1. In apparatus of the coil and drum type for cracking hydrocarbon oils, a heating coil, a cracking vessel having an inlet pipe from the heating coil, a conduit extending from a point near the bottom of the cracking vessel to a point near the top thereof, a pump having its suction end connected to the upper section of the conduit, a second heating coil separate from the first coil thru which the pump forces oil drawn in thru the conduit, a pipe connection for returning the reheated oil from the said coil to the vessel at a point substantially removed from the point of connection between said vessel and the said inlet pipe leading thereto from said first-named coil, means for taking off and condensing vapors from the vessel, a second cracking vessel, liquid overflow conduit means interconnecting the said vessels at points a substantial distance above the bottoms thereof, whereby oil overflows from the first vessel into said second vessel and is subjected to further cracking in the latter and means for discharging the forming tarry constituents from said second vessel.

1,947,111
MATCH PACKAGE
Rodney S. Pullen, Akron, Ohio, assignor to Pullenlite Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application December 7, 1928, Serial No. 324,414. Divided and this application January 30, 1931. Serial No. 512,269
7 Claims. (Cl. 206—29)

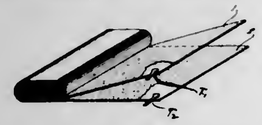
1. A match packet including a transverse row of matches having match heads all on the same side of the row, a match casing enclosing the

match heads and a portion of the match sticks and individual cover sheets upon opposite sides of the matches, a flap extension from and integral with one of the cover sheets and lying across one side of the match stick portions that project beyond the match casing, the flap being



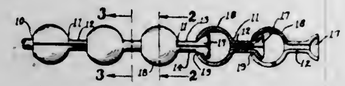
scored along its connection to the casing, and the flap having one or more lines of perforations intermediate its length outwardly from the said scoring in order that successive portions of the flap may be more easily torn off when the matches at said portions have been used.

1,947,112
ELECTRIC CONDENSER
Samuel Ruben, New Rochelle, N. Y., assignor to Ruben Condenser Company, New Rochelle, N. Y., a corporation of Delaware
Application June 13, 1932. Serial No. 616,862
6 Claims. (Cl. 175—41)



1. A condenser having a dielectric spacer consisting of a homogeneous mixture of a finely divided inorganic dielectric material, a water insoluble resinous binder and an inorganic binder comprising a boron compound.

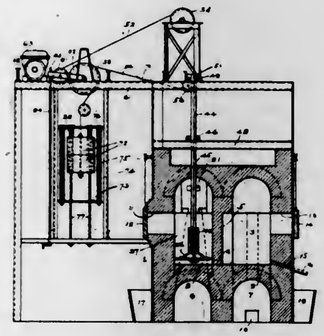
1,947,113
BEAD CHAIN
Theodore Russell, Naugatuck, Conn.
Application October 12, 1931. Serial No. 568,235
11 Claims. (Cl. 59—35)



1. In a bead chain, a series of flexibly connected hollow links, each link being made from an individual blank, and having an intermediate split neck portion, a spherical split head connected to one end of said neck portion, and a smaller semi-spherical enlarged split shoe connected to the other end of said neck portion and fitted within the interior of the head of the next adjacent link, the entire length of each link being hollow to permit the insertion of an elongated flexible member therewithin.

10. The process of constructing a bead chain which comprises bending up a series of links successively from a series of flat blanks, each having connected heads, necks, and shoe sections, into the form of a connected hollow split head, a hollow split neck, and a hollow split shoe section, and said links being formed in such a manner that the neck and shoe of each link is fitted into the interior of the head of the next adjacent link to form a continuous flexible chain.

1,947,114
METHOD AND APPARATUS FOR METAL WORKING AND PRODUCT RESULTING THEREFROM
John Schmeller, Sr., Lakewood, Ohio, assignor to Schmeller Holding Company, Cleveland, Ohio, a corporation of Ohio
Application April 30, 1930. Serial No. 448,740
4 Claims. (Cl. 263—21)



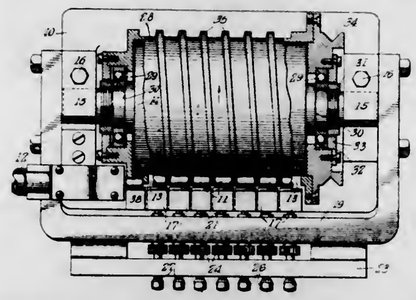
1. An apparatus of the character described having in combination a furnace structure having agitating, melting, and casting chambers, a fenestrated grid substantially filling said agitating chamber transversely and adapted to be moved through the molten metal in said chamber to sub-divide the same and to act thereon with friction and impact to disrupt oxide coatings over particles of metal and to deoxidize the molten mass and passageways below the surface of the metal bath communicating with said melting and casting chambers and connecting each, individually with said melting chamber.

1,947,115
TREATMENT OF INSECT-INFESTED FRUIT IN PREPARATION FOR MARKET
Bronson Cushing Skinner, Dunedin, Fla., assignor to Brogdex Company, Los Angeles, Calif., a corporation of Florida
No Drawing. Application December 24, 1929
Serial No. 416,301
6 Claims. (Cl. 99—8)

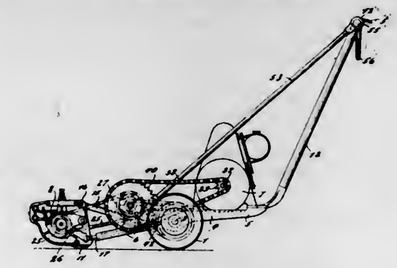
6. In the preparation for market of fresh fruit actually or supposedly carrying insect infestation of the character described, the process which comprises providing such fruit with a thin film-like coating comprising waxy material adequate to reduce wilt and shrinkage, and then steaming the fruit around four to six hours at a temperature approximating 110° to 115° F.

1,947,116
GRADING MACHINE
John W. Smith, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application November 13, 1930
Serial No. 495,346
13 Claims. (Cl. 209—99)

2. In a grading machine, a plurality of gates, one wall of each gate being adjustable to and from the opposite wall thereof, a spiral thread for moving articles to be graded over said gates, a portion of each turn of said thread being straight instead of spiral, whereby each article will be conveyed to and passed over said gates successively until it reaches the gate adapted to pass the same.



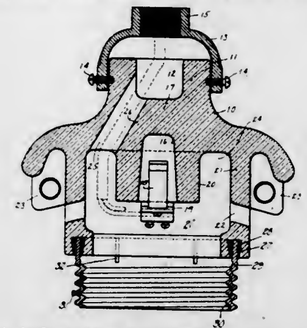
1,947,117
POWER DRIVEN LAWN MOWER
Henry J. Stegeman, Fairfield, and Sylvanus D. Locke, Bridgeport, Conn., assignors to The Locke Steel Chain Company, Bridgeport, Conn., a corporation of Connecticut
Application August 15, 1931. Serial No. 557,238
36 Claims. (Cl. 56—26)



1. In a power-driven lawn mower, ground-engaging rolls connected by an axle, a frame pivotally mounted and freely movable circumferentially of said axle and extending forwardly and rearwardly therefrom, a cutter mounted on said frame forwardly of said axle and comprising a ground-engaging shoe, a motor mounted on said frame rearwardly of said axle and counterbalancing the weight of said cutter to partly remove said weight from said shoe, means to drive said rolls from said motor, and means to drive the cutter from the motor.

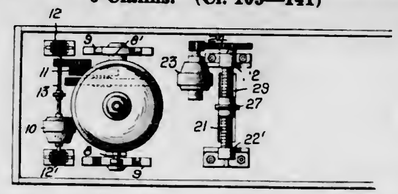
1,947,118
LIGHTING FIXTURE
Noah T. Thomas, Hartford, Conn., assignor to Hartford Faience Company, Hartford, Conn., a corporation of Connecticut
Application December 24, 1931
Serial No. 583,041
4 Claims. (Cl. 240—85)

1. In a lighting fixture, an insulator body having a depending annular skirt provided with an annular groove in its lower end, a ring fitting at its upper end in said groove, and a body of cement in the groove for anchoring said ring to the insulator body, said ring having an internal thread for receiving the threaded member of a shade, said ring also having a plurality of longitudinally extending slots each of which begins in the upper edge of the ring and extends downwardly to



a point below the horizontal plane containing the lower edge of the walls of said groove.

1,947,119
MONORAIL CAR AND THE LIKE
Hollis Walter, Baldwin, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application May 14, 1932. Serial No. 611,309
6 Claims. (Cl. 105—141)

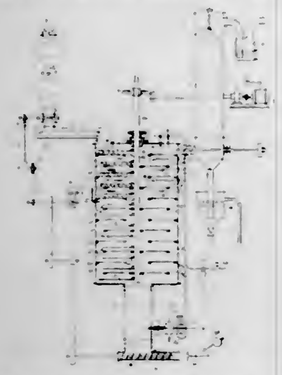


1. In a mono-rail car, means for shifting laterally the center of gravity thereof with respect to the rail support, a stabilizing gyroscope mounted on the car for precession upon tilting of the car, means for accelerating the precession, and means responsive to a preponderance of precessional movements of said gyroscope to one side or the other for operating said shifting means in a direction to restore equilibrium.

1,947,120
APPARATUS FOR PREPARING ACETYLENE AND SIMULTANEOUSLY PRODUCING SUBSTANTIALLY DRY CALCIUM HYDROXIDE
Karl Weibezahn and Felix Walter, Knapsack, near Cologne-on-the-Rhine, Germany, assignors to Aktiengesellschaft für Stickstoffdünger, Knapsack, near Cologne-on-the-Rhine, Germany
Application September 24, 1930, Serial No. 484,112, and in Germany February 14, 1928
6 Claims. (Cl. 48—38)

1. In an apparatus for preparing acetylene and simultaneously producing substantially dry calcium hydroxide by the action of water on calcium carbide, comprising a vertical cylindrical reaction chamber provided with a series of superimposed fixed plates in staggered relation and stirring arms adapted to agitate the calcium carbide and the calcium hydroxide obtained therefrom on said plates and feed them from one plate to another, in combination, a collection chamber at the lower end of the reaction chamber for receiving the calcium hydroxde produced, means operated by the difference in pressure between said collection chamber and the reaction cham-

ber for indicating the amount of calcium hydroxide in said collection chamber, and gas-tight



means for removing calcium hydroxide from said collection chamber.

1,947,121
ALUMINUM BASE ALLOYS
Walter Bonsack, Cleveland, Ohio, assignor to The National Smelting Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application October 4, 1932
Serial No. 636,186
12 Claims. (Cl. 75—1)

1. An aluminum base alloy having a low thermal coefficient of expansion comprising a predominant amount of aluminum 7% to 20% silicon, .2% to 6% magnesium, and from .1% to 5% manganese, said alloy being comparatively free from other elements having a higher specific gravity than aluminum.

1,947,122
SURFACE TREATMENT OF MAGNESIUM AND MAGNESIUM BASE ALLOYS
Edward C. Burdick and William H. Gross, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 28, 1932
Serial No. 608,130
12 Claims. (Cl. 148—6)

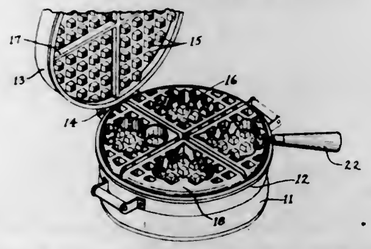
1. A method of treating the surfaces of magnesium or magnesium base alloys which comprises subjecting said surfaces to the action of a solution of a dihydrogen phosphate and a compound of an acid from the group consisting of chromic, tungstic, and meta-vanadic acids.

1,947,123
HARVESTER FINGER BAR
Oscar F. Carlson, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 29, 1932. Serial No. 630,849
1 Claim. (Cl. 56—307)



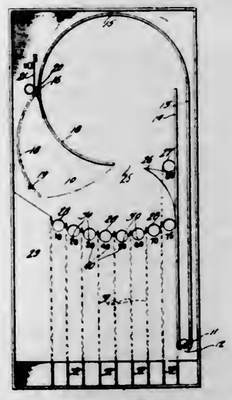
The combination with a harvester finger bar, of a tension rod on the upper side of said bar, means connecting the ends of said bar to the ends of said rod, said connecting means including means for adjusting the tension in said rod whereby the outer end of said bar may be caused to curve upwardly relatively to the inner end and the degree of such upward curvature varied, and one or more brackets on said bar contacting said rod to hold the latter in close proximity to said bar meanwhile permitting even distribution of strain in said rod when the tension thereof is adjusted.

1,947,124
INSERT FOR WAFFLE IRON
Charles A. Clauss, Fairfield, Conn.
Application July 30, 1932. Serial No. 626,877
4 Claims. (Cl. 53—10)



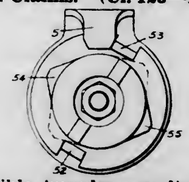
1. In a cooking utensil, a perforated insert shaped to fit closely between the leaves of a waffle iron, the perforations having contours corresponding to the outlines which it is desired to impart to finished waffles, said perforations being tapered to permit the waffles to be easily removed.

1,947,125
GAME
Chester C. De Pew, Keyport, N. J., assignor to Whirlpool Incorporated, a corporation of New York
Application August 17, 1931. Serial No. 557,581
7 Claims. (Cl. 273—124)



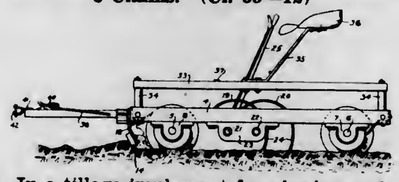
1. In apparatus of the class described, in combination, a flat bottom member disposed at an angle to the horizontal, a substantially straight guiding means on the upper surface of said member, a circular guide having one end connecting with the first said guiding means, an extension element to the circular guide having one end pivoted and the other end swingable about said pivot in a manner as to be actuated by the centrifugal force of a ball, and a spring means opposing the swinging of said extension element.

1,947,126
REVERSIBLE IMPULSE COUPLING
Leroy S. Dunham, East Orange, and Arthur F. Robertson, Belleville, N. J., assignors to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application October 15, 1932. Serial No. 637,960
14 Claims. (Cl. 123—149)



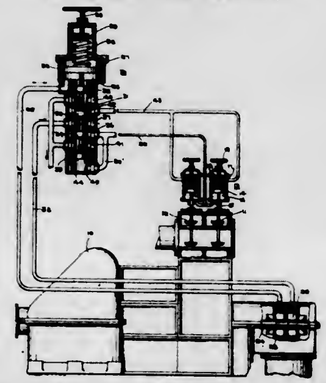
1. A reversible impulse coupling for an ignition generator including driving and driven members, a pair of L-shaped pawls arcuately spaced and pivotally mounted on the driven member, one arm of the L extending over the outer periphery of the driving member to engage a stop carried by the generator, one pawl engaging the stop when the coupling is slowing turned in one direction, and the other pawl to engage the stop when the coupling is slowly turned in the opposite direction, a spring housed within said members and put under tension by the driving member when the driven member is stopped by one of the pawls engaging said stop, and a cam for releasing the pawl engaged by the stop, whereby said spring under tension will deliver a sudden impulse to the driven member.

1,947,127
TILLAGE COMBINE
Ray E. Dunham, Berea, Ohio, assignor, by mesne assignments, to The Dunham Company, Berea, Ohio, a corporation of Ohio (1931)
Application March 23, 1931. Serial No. 524,723
3 Claims. (Cl. 55—12)



1. In a tillage implement for plowing and pulverizing soil to a substantially uniform predetermined depth, a main frame comprising laterally spaced side portions and forwardly and rearwardly spaced end portions, a pair of forwardly and rearwardly spaced rigid parallel shaft elements disposed transversely of the frame and connected at opposite end portions to the frame side portions, a gang of ground-engaging discs having peripheries generally of V-shape in cross-section on each shaft element, the discs being independently rotatably mounted upon the shaft elements and supporting the frame above the ground, a rigid transverse bar element disposed between the disc gangs and supported at opposite ends upon the frame above the ground, a gang of plowing tools secured to and supported on the bar element comprising each a body portion slightly rearwardly resiliently yieldable, connected to the bar element, and comprising pointed ground penetrating and plowing portions, operable means for moving the bar element to adjustably move the tools to dispose their several pointed portions at a uniform predetermined depth in the ground or to raise them out of the ground, the frame side and end portions being rigidly united in a non-warpable non-yielding rigid unitary frame, and the weight of the frame, frame-supported parts, shaft elements and discs depressing the V-shaped peripheries of the discs into interlocked relation with the ground to prevent lateral shifting thereof and lateral shifting of the frame and of the plowing tools, and holding the tool pointed portions at substantially a constant depth in the soil against the tendency to be pushed out of the soil or laterally in the soil upon encountering hard portions thereof, to effect breaking, turning and pulverizing of a soil layer of substantially uniform thickness leaving unbroken the solid earth thereunder.

1,947,128
FLUID PRESSURE GOVERNING MECHANISM
Clarence C. Franck, Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application August 25, 1930. Serial No. 477,747
11 Claims. (Cl. 264—14)

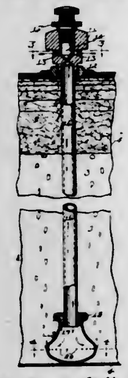


1. The combination with a prime mover having a valve, a device having a movable element connected to the valve for opening and closing the latter, a spring acting on the element to move the valve in a closing direction, means for applying fluid under secondary pressure to said element to move the valve in an opening direction against the force of said spring, means for developing primary pressure of fluid in accordance with an operating characteristic of the prime mover, means responsive to a change in primary pressure for producing an opposite change in said secondary pressure, and means responsive to a predetermined maximum value of the primary pressure to apply a force to said element assisting the spring moving the valve in a closing direction.

1,947,129
CARBURETOR DEVICE
Abe Hyma, Grand Rapids, Mich., assignor of one-fourth to George Yonkman, one-fourth to Charles F. Fordham, and one-fourth to Herbert F. Johnson, all of Grand Rapids, Mich.
Application July 16, 1932. Serial No. 622,847
1 Claim. (Cl. 261—121)

In a carburetor device of the character described for an internal-combustion engine: a liquid fuel tank; means for drawing air through the liquid fuel in said tank by the suction of the engine to create combustible fumes above the liquid level in the tank, said means including a cap threaded through the top of the tank having an air passage therethrough controlled by a threaded conical valve, a communicating

air tube extending downwardly into the liquid fuel and having at its lower end an annular rib, and a hollow discharge member crimped over said rib and having a plurality of circularly ar-



ranged air vents; a conduit leading from said tank to the engine for drawing said fumes from above said liquid level in the tank to the engine by the suction of the engine.

1,947,130

SEPARABLE SNAP FASTENER STUD

Gustav Johnson, West Roxbury, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application May 8, 1930. Serial No. 450,736

6 Claims. (Cl. 24—213)



4. A snap fastener stud formed from a single piece of sheet metal and having a yieldable base 1, and a pair of projections 4—4 extending from said base 1 and each having a width substantially greater than its thickness to stiffen said projections, said projections having outer edges 5—5 shaped and cooperating to provide a stud head 6 and neck 7 and said projections being so positioned with respect to each other as to have a "scissors-like" action due only to the flexibility of said base when engaged with or disengaged from a socket having an aperture of fixed dimensions.

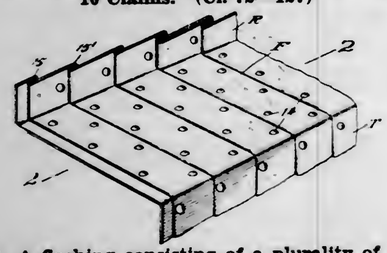
1,947,131

INTERLOCKING METAL FLASHING

David Levow, New York, N. Y., and Abraham Ratner, East Orange, N. J., assignors, by mesne assignments, to The Cheney Company, a corporation of Massachusetts

Application December 6, 1930. Serial No. 500,586

10 Claims. (Cl. 72—127)



1. A flashing consisting of a plurality of continuous strips of sheet metal bent to form saw-edge shaped corrugations, the alternate faces of said strips being parallel, the end sections of adjacent strips being adapted to be superimposed one with respect to the other, to form an interlock, and the surfaces of said strips having thereon stamped projections in formation for the purpose specified.

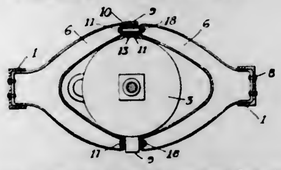
1,947,132

MOUNTING

Thomas Lord, Erie, Pa., assignor to Hugh C. Lord, Erie, Pa.

Application June 11, 1931. Serial No. 543,650

4 Claims. (Cl. 248—14.2)



4. In a mounting, an instrument having rotating elements producing torque vibrations; and supports comprising mountings for the instrument above and below the axis of the instrument with a preponderance of the mountings arranged more nearly adjacent to a vertical plane through the axis of the instrument than to a horizontal plane through the axis of the instrument and comprising tangentially extending surfaces and rubber between the surfaces and bonded thereto, the rubber being so disposed and associated with the surfaces to accommodate the torque thrusts in shear and the gravity thrusts by direct non-shear stress of the rubber.

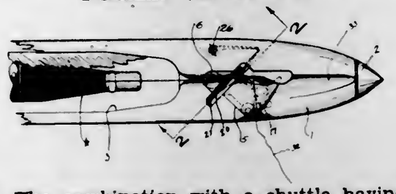
1,947,133

TENSION DEVICE FOR AUTOMATIC LOOM SHUTTLES

William E. Lundgren, Auburn, Mass., assignor to Percy H. McMullen, Worcester, Mass., as trustee

Application April 29, 1932. Serial No. 608,198

4 Claims. (Cl. 139—215)



1. The combination with a shuttle having a longitudinal thread passage through which a thread is normally directed, said shuttle having a diagonal groove therein intersecting said passage, of a tension member in said groove, resilient means for holding said member in thread tensioning position, and means for pivotally supporting said member with the center of gravity thereof spaced from the pivotal support to procure swinging movement of said member to inoperative position upon the picking of said shuttle.

1,947,134

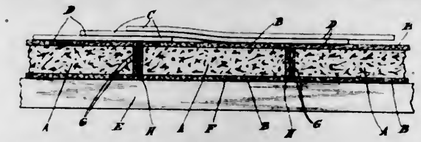
ROOFING

George W. Mills, Jr., Cincinnati, Ohio, assignor to Construction Materials Patents, Inc., a corporation of Ohio

Application July 5, 1929. Serial No. 376,007

3 Claims. (Cl. 108—6)

1. In a roofing construction, the combination of an upper continuous layer of waterproofing, a lower continuous layer of waterproofing spaced apart from said upper layer, slabs of insulating material disposed between said two layers of



waterproofing and means for spacing said slabs of material, said means with the upper and lower layers forming a plurality of moisture-proof pockets.

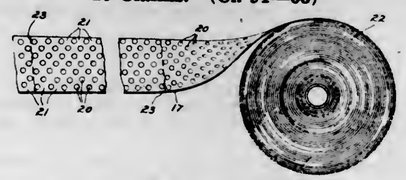
1,947,135

FLOOR POLISHING MATERIAL

Albert E. Moorhead, Oakland, Calif., assignor to Moorhead Development Co., Inc., Oakland, Calif., a corporation of Nevada

Application August 4, 1930. Serial No. 473,090

10 Claims. (Cl. 91—68)



9. As an article of manufacture, a flexible fibrous floor treating material impregnated in localized areas with predetermined amounts of a floor polishing material, said polishing material being adapted to add a layer of the polishing material to a floor.

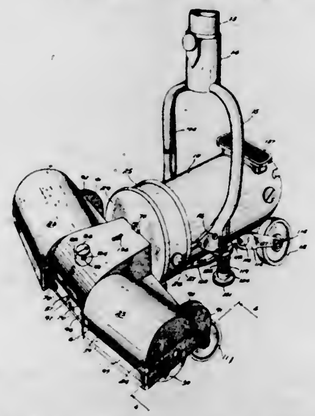
1,947,136

FLOOR CLEANING DEVICE

Albert Edward Moorhead, Oakland, Calif., assignor to Moorhead Development, Co., Inc., Oakland, Calif, a corporation of Nevada

Application December 5, 1930. Serial No. 500,227

9 Claims. (Cl. 91—39)



2. In a floor polishing device, a brush, and removable means in said brush for holding the advance end of a floor treating medium, said means comprising a member having a longitudinal slit formed by opposed serrated edges.

1,947,137

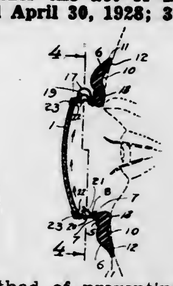
GOGGLES

Charles E. Fraser, Brooklyn, N. Y., assignor to Willson Products Inc., Reading Pa.

Application March 8, 1927. Serial No. 173,665

51 Claims. (Cl. 2—14)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The method of preventing the fogging in low temperatured atmosphere of the inner surface of the lens of a goggle while affording a comfortable temperature at the eyes of the wearer, comprising the steps of maintaining in a relatively quiescent state a volume of air between the lens and the eye and in contact with and receiving heat and moisture from features of the wearer; flowing a limited volume of said atmosphere across the line of vision and between the lens and the quiescent volume; entraining in said flowing volume moisture condensed in the quiescent volume; and discharging from the goggle said flowing volume bearing the condensate.

1,947,138

FERTILIZER

Beverly Ober and Edward H. Wright, Baltimore, Md., assignors to The Oberphos Company, Baltimore, Md., a corporation of Maryland

Application February 27, 1931. Serial No. 518,851

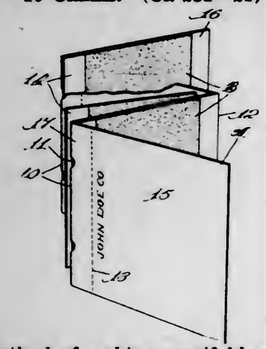
13 Claims. (Cl. 71—7)



1. As a new product, a phosphate fertilizer in porous discrete nodular encrusted and indurated globoid particles, having a crushing strength in excess of several times as great as fully cured den superphosphate.

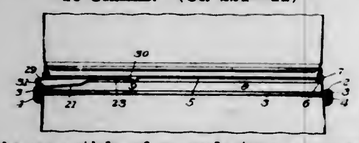
13. As a new product, a phosphate fertilizer in porous discrete nodular encrusted and indurated globoid particles, having a crushing strength in excess of several times as great as fully cured den superphosphate and containing potash and nitrogenous material.

1,947,139
SNAP-OUT FORM AND METHOD OF MANUFACTURING THE SAME
Oscar P. Peters, Cleveland, Ohio, assignor to United Autographic Register Co., Chicago, Ill., a corporation of Illinois
Application October 15, 1932. Serial No. 638,021
10 Claims. (Cl. 281—21)



1. A method of making manifold sets of forms which comprises: forming a web which comprises the record-slips of a set of forms with a line of folding having adhesive-admitting perforations thereat and lines of weakening in said slips parallel with and on opposite sides of the line of folding, thus providing marginal binding-strips; folding the web along the line of folding; introducing a relatively narrow transfer-slip between said record-slips; and applying adhesive at the line of folding and through the adhesive-admitting perforations thereat.

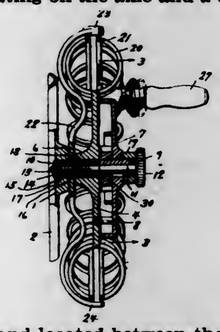
1,947,140
CONTAINER
Charles H. Rollason, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware
Application June 2, 1932. Serial No. 614,871
16 Claims. (Cl. 221—11)



1. As an article of manufacture, a receptacle comprising a closure having a depression formed therein and provided with a pouring opening and a pouring spout cooperating with said pouring opening, said pouring spout having a pouring lip, the pouring plane of which is above the plane of the bottom of the depression and below the plane of the main body of the closure, said pouring opening being initially sealed by a rupturable diaphragm.

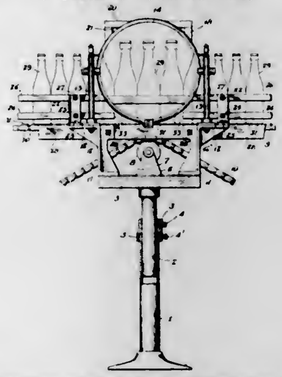
1,947,141
FLY CASTING BASKET REEL
Elmer J. Sellers, Kutztown, Pa.
Application April 26, 1933. Serial No. 668,132
2 Claims. (Cl. 242—84.6)

1. A reel of the class described comprising a base, an axle connected with the base and having a chamber therein, a spring in the chamber, a non-rotatable member in the chamber, a screw passing through the axle and threaded to the member for moving the same longitudinally as the screw is turned, a reel disk rotatably arranged on the axle, a basket line container of annular form connected to the disk, a casing fastened to the outer face of the disk for rotating therewith and also rotating on the axle and a collar carried



by the axle and located between the head of the screw and the casing, turning of the screw in one direction causing the compression of the spring by the member for exerting a drag on the reel.

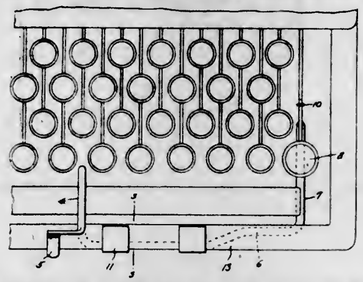
1,947,142
INSPECTION APPARATUS
Walter J. Ward, Lakewood, Charles E. Bauerle, Cleveland, and Ferdinand H. Dalrymple, Bedford, Ohio
Application August 22, 1933. Serial No. 686,256
7 Claims. (Cl. 88—14)



1. Inspection apparatus comprising a support, a perforated conveyor movable relatively thereto, means forming upwardly-extending guide rails adjacent to and along the opposite sides of the pathway of the conveyor, a light cabinet mounted upon the support adjacent the path way of the conveyor and having light-reflecting walls, means for diffusing light from the cabinet upon an upper portion of the pathway of the conveyor and into the space adjacently beneath said pathway portion, and a magnifying lens mounted upon the support and having its field within the diffused light area.

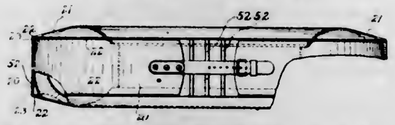
1,947,143
THUMB SHIFT FOR TYPEWRITERS
Noah A. Young, Duluth, Minn.
Application February 28, 1933. Serial No. 659,607
1 Claim. (Cl. 197—78)

An attachment for a typewriter comprising a bar having a substantially straight intermediate part, clamping means engaging the front part of the typewriter frame and rotatably supporting said intermediate portion of the bar under the lower edge of said front part of the frame, said bar, at one end, being bent to form an inwardly extending arm having an upstanding part connected with its inner end and a forwardly and upwardly sloping part connected with the upper end of the upstanding part, with a flattened forwardly and downwardly extending hook-shaped part connected with the upper end of the



forwardly and upwardly sloping part, said flattened part forming a thumb engaging part, the opposite end of the bar being bent to provide an inwardly extending arm and means for connecting the extremity of the last mentioned arm with the shank of the shift key of the typewriter, with the parts of the first mentioned arm forming a space through which passes the space bar of the typewriter.

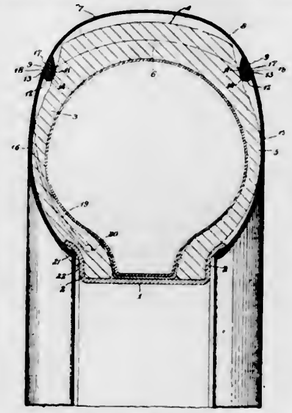
1,947,144
TIRE COVER
Oscar U. Zerk, Cleveland, Ohio
Application July 23, 1931, Serial No. 552,636
Renewed July 31, 1933
12 Claims. (Cl. 150—54)



1. A tire cover composed of resiliently flexible material of a size normally insufficient to receive therein the tire to be covered thereby and comprising a tread covering portion and side wall covering portions, said portions being resiliently distorted during placement on the tire and after positioning thereon, resiliently embracing the tire therewithin, and an outer band portion constrictingly engaging at least a portion of the tread covering portion of the cover, and annular ribs on the cover engaging the annular opposite edges of the band portion.

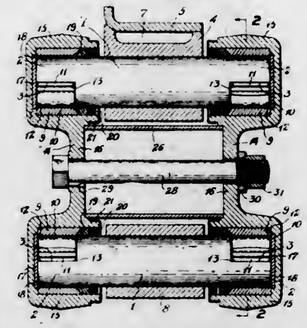
1,947,145
TIRE COVER
Oscar U. Zerk, Cleveland, Ohio
Original application July 23, 1931, Serial No. 552,636. Divided and this application April 2, 1932, Serial No. 602,816. Renewed July 31, 1933
20 Claims. (Cl. 150—54)

1. A tire cover comprising a metal inwardly contractible strip for embracing a tire tread portion and an annular resiliently flexible rubber side portion joined thereto along an annular edge of the metal portion, said side portion being reinforced at its inner border and so dimensioned that when the cover is placed on a tire of appropriate size the inner border is subjected to a stretching tensile stress sufficient in degree to subject all other portions to a strong inwardly directed stretching pull communicated thereby



to the said metal portion to hold the metal portion onto the tire.

1,947,146
SHACKLE MECHANISM
Oscar U. Zerk, Cleveland, Ohio
Application April 12, 1932. Serial No. 604,776
50 Claims. (Cl. 267—54)

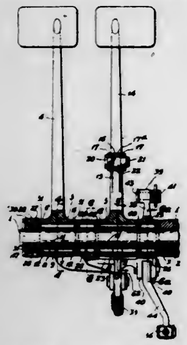


1. In a shackle bearing construction, a pair of spaced parallel links having at their ends opposite confronting recesses, a cylindrical shackle pin adapted to be press-fitted into the eye of a hanger or the eye of a spring, its ends projected into the recesses and having coaxial bearing surfaces wholly within the recesses, a sector-form knife edge bearing element in each recess having a substantially knife edge rockingly engaging the bearing surface and having a generally cylindrical surface opposite the edge engaging the inner wall of the recess.

1,947,147
LEVER
Oscar U. Zerk, Cleveland, Ohio
Application April 12, 1932. Serial No. 604,778
12 Claims. (Cl. 308—189)

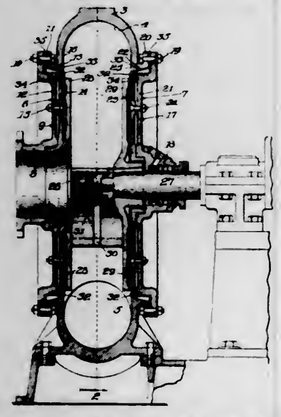
1. A lever mechanism comprising a lever provided with a fulcrum portion having a transverse bore, a fulcrum shaft projected through said bore, a plurality of rolling bearing elements disposed intermediate the walls of said bore and said shaft and making rolling engagement with the shaft, means retaining all of said bearing ele-

ments in operative positions always at one side of a plane including the shaft axis, from which



side of the shaft the operative thrust of said lever against said fulcrum shaft is directed.

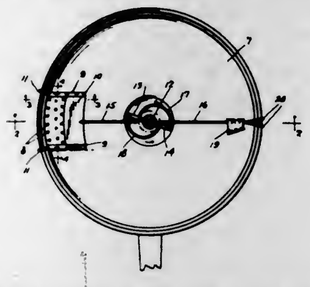
1,947,148
PUMP
Oscar W. Andersen, Oak Park, Ill., assignor to Pettibone Mulliken Company, Chicago, Ill., a corporation of Delaware
Application October 2, 1930. Serial No. 485,984
5 Claims. (Cl. 103—114)



3. A pump comprising metal parts forming an impeller casing structure with a joint between said parts surrounding the axis about which the impeller rotates and located closely adjacent the outer margin of the impeller, the metal of said parts being exposed at the interior surfaces thereof at opposite sides of said joint to form a space of varying diameters, and resilient packing means compressed in said space at the interior surfaces of said parts and sealing said joint against entry thereto of fine particles in the material operated on by the pump.

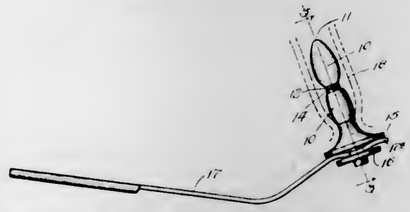
1,947,149
LID AND RETAINING MEANS THEREFOR
Benjamin H. Aupke, Pittsburgh, Pa.
Application October 21, 1932. Serial No. 638,952
3 Claims. (Cl. 53—8)

3. As a new product of manufacture, a cooking utensil lid provided with an opening, means for closing the opening, means for locking the lid on a utensil, and means actuatable simultaneously to operate the means for closing the



opening and releasing the means for locking the lid on a utensil.

1,947,150
RECTAL SYRINGE OR DOUCHE NOZZLE
Joseph B. Bacon, Macomb, Ill.
Application January 23, 1933. Serial No. 653,197
1 Claim. (Cl. 128—239)



A nozzle of the character described; including an elongated member with a rounded closed end and an annular recess on the side, said member having a main bore therein leading to its outer end, a cross bore extending from the bottom of said recess to the main bore, and a pair of flanges on its outer end; in combination with an inserting handle having means for detachably securing one end of said handle to the nozzle, said means including a part on the handle adapted to be held frictionally between the flanges on the nozzle.

1,947,151
SHEET-METAL-PILING WALL STRUCTURE
William G. Caples, Chicago, Ill.
Application December 27, 1932
Serial No. 649,057
7 Claims. (Cl. 61—39)



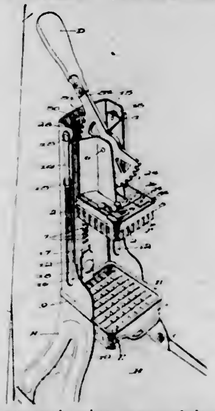
1. In a structure of the character set forth, the combination of a wall formed of sheet piles, wales and anchor elements engaging said wales, those of said piles which are located at said anchor elements being formed of separate sections arranged in vertical series, with the anchor elements located between adjacent ends of said sections.

1,947,152
CARPET MATERIAL
Frank W. Clark, Sanford, Maine, assignor to Sanford Mills, Sanford, Maine, a corporation of Maine
Continuation of applications Serial Nos. 491,639, October 27, 1930, 571,669, October 28, 1931, and 601,510, March 28, 1932. This application January 2, 1934. Serial No. 704,919
24 Claims. (Cl. 154—49)



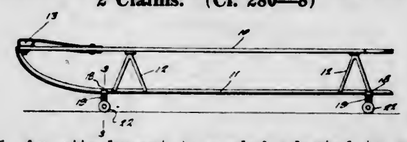
1. A carpet material comprising a layer of pile fabric having a ground too flimsy for a carpet back, a second layer of fabric, and an intermediate layer of flexible, adhesive binding material penetrating the adjacent surfaces of, and adhesively securing together, the ground of the pile fabric and the second fabric and forming therewith a unitary body of sufficient thickness and transverse stiffness to present the qualities required for a carpet back.

1,947,153
FOOD CHOPPER
Martin Cope Dellinger, Lancaster, Pa., assignor of one-half to Harry W. Kulp, Lancaster, Pa.
Application August 3, 1931. Serial No. 554,869
3 Claims. (Cl. 146—169)



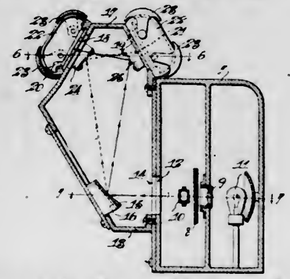
1. A food comminuter comprising a frame having a guideway of channel form with parallel vertical sides formed with registering vertical guide slots, a carriage extending between the sides of said guideway and having side portions of substantial vertical length disposed closely adjacent, and substantially parallel, to said sides of said guideway, in combination with vertical guide plates of substantially the same vertical length as the respective sides of said carriage disposed closely adjacent, and parallel, to the outer side faces of said sides respectively and extending for their full lengths in said guide slots respectively, outer plates disposed on the outer faces of the sides of the frame in registry with said guide plates and having portions extending over and in sliding engagement with, the outer faces of said sides of the frame adjacent said guide slots respectively, and pairs of securement means extending through the respective outer plates and side portions of said carriage and the respective intervening guide plates.

1,947,154
CASTER ATTACHMENT FOR SLEDS
Christian A. Fox, Trenton, N. J.
Application June 2, 1933. Serial No. 674,108
2 Claims. (Cl. 280—8)



1. An attachment to a sled adapted to convert the sled into a wheel supported vehicle, said attachment comprising clamps for engaging the runners of the sled, an axle carried by each clamp and wheels journaled on the axle, and each of said clamps being formed of spring metal and including integral oppositely inclined shanks, having at their converging ends straight portions and channel shaped jaws integral with the straight portions and extending laterally therefrom for engagement with the opposite edge portion of the sled runner, and bolt and nut means engaging the straight portions of the shanks for drawing the jaws into clamping engagement with the sled runner.

1,947,155
SCALE LOAD INDICATING PERISCOPE
Louis W. Fuller, Rutland, Vt., assignor to Howe Scale Company, Rutland, Vt., a corporation of Vermont
Application August 6, 1930. Serial No. 473,433
4 Claims. (Cl. 88—24)

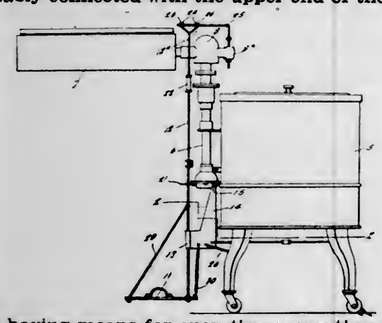


1. In a scale, the combination of scale load indicating means including a movable scale strip having thereon a plurality of sets of load indicating markings, individual display screens disposed at the same side of the scale, a reflector set associated with each set of load indicating scale markings, light projecting means associated with said scale strip and common to all sets of markings thereon and including projecting lens equipment by which said sets of markings are respectively projected to said individual reflector sets, said reflector sets including a pair of reflector units arranged side by side at different angles to the projecting axis of said lens equipment whereby said sets of scale markings are individually and simultaneously displayed on the individual display screens individually associated with the respective reflector sets.

1,947,156
CLUTCH CONTROL FOR MANGLES
Alex Glock, Gardnerville, Nev.
Application April 22, 1932. Serial No. 606,957
2 Claims. (Cl. 192—99)

1. In a clutch operator of the character described, a sectional rod mounted for vertical

movement, and an adjustable connection between the sections of the rod, fixed guide means in which the rod is operable and thereby constrained to move vertically, angular means adjustably connected with the upper end of the rod



and having means for operative connection with a clutch, a pedal on the lower end of said rod, and an elastic connection between said pedal and guide means for normally urging the rod to move vertically upwardly.

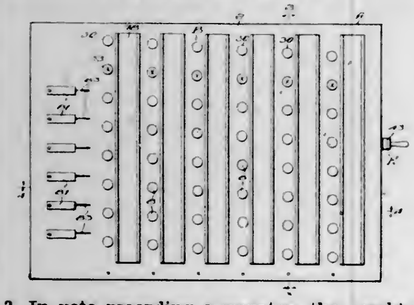
1,947,157

VOTING AND COUNTING MACHINE

Joseph P. Harris, Madison, Wis.

Application December 6, 1929. Serial No. 412,161

7 Claims. (Cl. 235—50)



3. In vote recording apparatus, the combination of a stationary frame, a plurality of depressible punch keys mounted in said frame, notches in said keys, locking strips slidably mounted in said frame, apertures in said strips through which said keys pass, mechanism means operable to slide said strips to engage the said notches of all of said keys when the same are in raised position to prevent the unauthorized use of said keys, and mechanism means operable to disengage said locking strips from said notches to permit the authorized use of said apparatus for voting purposes.

1,947,158

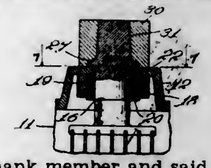
BATTERY TERMINAL

Harry H. Henry, Chicago, Ill., assignor to Monark Battery Company, Inc., Chicago, Ill., a corporation of Delaware

Original application June 9, 1932, Serial No. 616,310. Divided and this application February 10, 1933. Serial No. 656,171

5 Claims. (Cl. 22—203)

5. The method of securing a battery terminal to a wall of a battery case, which comprises forming an aperture in said wall and notches in the periphery of said aperture, inserting a shank member in said aperture, and molding a head member on said shank member in such a manner that a bead and lugs are formed integral



with said shank member and said head member, said bead engaging the outer surface of said wall and lugs engaging said notches.

1,947,159

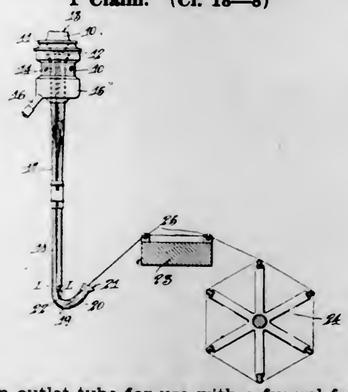
APPARATUS FOR THE PRODUCTION OF ARTIFICIAL THREADS AND THE LIKE

Hugo Hofmann, Johnson City, Tenn., assignor to American Bemberg Corporation, New York, N. Y., a corporation of Delaware

Application December 16, 1931

Serial No. 581,475

1 Claim. (Cl. 18—8)



In an outlet tube for use with a funnel for the production of artificial filaments, a straight tube portion, the lower end of which is bent to form a U and the exit orifice of which is flared, the said tube at the beginning of the bend being depressed to provide an inwardly extending curved portion, the convex side thereof facing the beforementioned flared orifice whereby the filaments passing downwardly through the straight tube portion are held out of contact with the sides thereof, the U-portion having a guiding and constricting surface serving to compact the filaments.

1,947,160

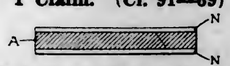
TREATING PHOTOGRAPHIC FILM

Charles Holzwarth, Parlin, N. J., assignor to Du Pont Film Manufacturing Corporation, New York, N. Y., a corporation of Delaware

Application September 26, 1930

Serial No. 484,643

1 Claim. (Cl. 91—69)



The method of cockle-proofing photographic film of cellulose acetate containing moisture repelling agents so that the combustion retarding properties of said film will not be materially diminished by said method, comprising thoroughly and carefully drying the film, and subsequently applying to both sides thereof a relatively thin coating resulting from a solution containing by weight not more than 10% nitrocellulose, approximately 1% camphor, approximately 10% each of acetone, butyl alcohol, and mono ethylether ethylene glycol, and approximately 60% methyl alcohol, and subsequently re-drying the thus coated film.

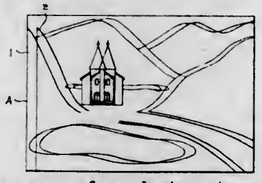
1,947,161

PROCESS OF AND APPARATUS FOR PRODUCING STEREOSCOPIC MOTION PICTURES

Ciro Fidel Méndez, New York, N. Y.

Refiled for abandoned application Serial No. 466,564, July 8, 1930. This application April 13, 1933. Serial No. 666,050

3 Claims. (Cl. 88—16.6)



1. The process of producing stereoscopic motion pictures which consists in producing simultaneously two stereoscopic images, each image being in a color complementary to the color of the other image; and then producing simultaneously two stereoscopic images identical in form with said first two images and in reversely complementary colors to the colors of the said first two images, and repeating the above described steps for successive duplicate pairs of images delineating the moving object.

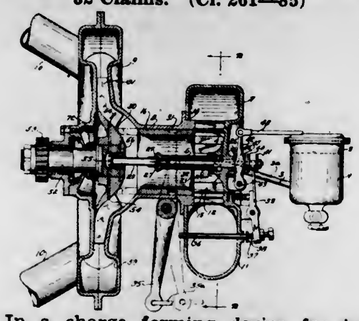
1,947,162

CARBURETOR

Frank C. Mock, East Orange, N. J., assignor to Bendix Research Corporation, East Orange, N. J., a corporation of Indiana

Application December 4, 1930. Serial No. 500,049

32 Claims. (Cl. 261—85)



1. In a charge forming device for internal combustion engines, in combination with a rotary impeller disposed in the path of the combustible charge as it moves toward the intake chambers of the engine, a cylindrical casing for said impeller, said casing having a centrally formed extension constituting a confining tubular conduit for the column of air moving toward said impeller, a sleeve slidable along the inner surface of said conduit to regulate the amount of air drawn toward said impeller, a manually operable sleeve actuating member, a fuel supply tube supported within said air conduit in coaxial relation to said impeller, a valve in said tube adapted to regulate the flow of fuel therein, and means movable by said sleeve actuating member to vary the setting of said fuel regulating valve.

21. In a fuel feed system for an internal combustion engine, a main passage, a throttle valve, a suction chamber on the atmospheric side of said throttle valve, and connected to said main air passage so as to possess a suction depending on the entering air flow, a jet located in said suction chamber, a by-pass channel from said suction chamber to the engine side of said throttle valve and means for adjusting the distance between the entrance of said by-pass and said jet, to vary the suction through said by-pass channel.

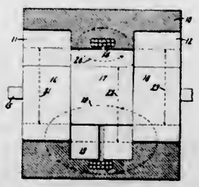
1,947,163

ONE POLE MOTOR

Wayne J. Morrill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application August 31, 1933. Serial No. 687,612

11 Claims. (Cl. 172—275)



1. A one pole reluctance motor comprising relatively rotatable primary and secondary elements, said elements being composed of magnetic material, and one element surrounding the other in telescoping relation parallel to the axis of rotation, a winding on the primary member for producing a flux which links the primary and secondary elements in an axial direction, the relatively rotatable adjacent peripheral surfaces of said members being so shaped and disposed with respect to the axis of rotation that the reluctance of the flux path between primary and secondary varies between maximum and minimum values only once per revolution and means for exciting said winding with regularly recurring current pulsations.

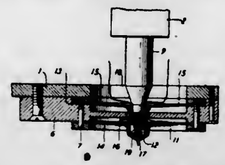
1,947,164

PHONOGRAPH REPRODUCER

Louis A. Morrison, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

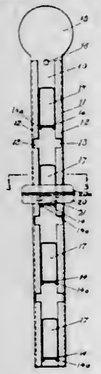
Application June 6, 1930. Serial No. 459,586

3 Claims. (Cl. 179—100.41)



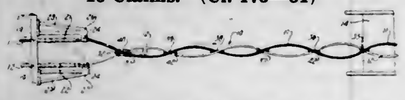
2. In a phonograph reproducer, a magnetic circuit including an air gap, a generating element in the gap, a stylus, supporting means for the element and the stylus comprising elastic members disposed in adjacent parallel planes, and auxiliary resilient means cooperating with one of the elastic members to reduce the effective stiffness of the supporting means.

1,947,165
DISPLAY FIXTURE
David L. Nelke, New York, N. Y.
Application October 5, 1932. Serial No. 636,323
3 Claims. (Cl. 211—88)



1. A display fixture including a body portion, integral flanges formed on the side edges of said body portion and extending outwardly and across said body portion, the edges of said flanges being spaced apart, said flanges having notches cut in the portion extending across the body portion for the reception of a protuberance on a box of shoe polish or the like, and a shelf formed integrally with said body portion and extending outwardly therefrom between the edges of said flanges for supporting said box or the like.

1,947,166
STRANDS AND METHOD OF HANDLING THEM
Roland R. Nydegger, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 13, 1931. Serial No. 508,471
18 Claims. (Cl. 173—81)

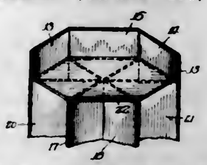


17. The method of handling strands which consists in maintaining a pair of strands in the same plane, crossing them without twisting, and applying a tying member encircling each of the crosspoints of the strands lengthwise of the pair of strands and between the same.

1,947,167
ALLOYS
Burt Howell Payne, Westfield, N. J., assignor to Stulz-Sickles Company, Newark, N. J.
No Drawing. Application August 23, 1932
Serial No. 630,055
2 Claims. (Cl. 75—1)

1. A manganese nickel steel for parent metal in welding operations comprising carbon, manganese, nickel and silicon, in which the carbon content present is in excess of .60% and less than .85%; the nickel content present is in excess of 2.50% and less than 3.50%, and is substantially four times the amount of carbon present; the manganese content present is in excess of 11% and less than 13.5%; and the silicon content present is in excess of .6% and less than .95%, and the balance is iron.

1,947,168
DISPLAY STAND
Earl C. Potter, Chicago, Ill., assignor, by mesne assignments, to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application May 29, 1930. Serial No. 457,183
1 Claim. (Cl. 211—156)

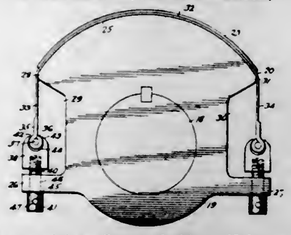


A display stand comprising a collapsible tubular body formed from a plurality of hingedly connected side wall sections, a floor piece for supporting articles to be displayed, said floor piece lying within said tubular body and in a plane below the upper edge of at least one of said side walls, a bracing means within said body for preventing collapsing of said tubular body and providing a support for maintaining said floor piece in fixed position, and a flap extension on said last mentioned side wall adapted to be bent inwardly of the tube and engage the upper portion of said side wall, said floor piece having an edge bearing against said flap extension whereby it will be held in bent over relationship against said side wall without other securing means.

1,947,169
INSECTICIDE
William Kelley Price, Selah, Wash.
No Drawing. Application March 14, 1930
Serial No. 435,955
2 Claims. (Cl. 167—32)

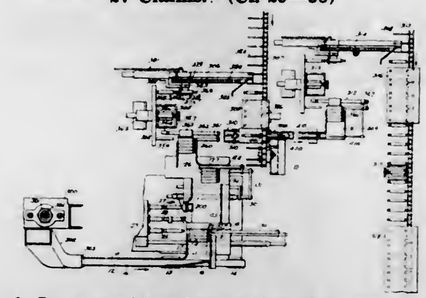
1. The method of repelling codling moths, which comprises spraying fruit trees and the like with a mixture containing naphthalene and a carrier therefor that is less readily vaporizable than the naphthalene, but which will permit vaporization of the naphthalene, the mixture being applied in an atomized condition and at such pressure that a film thereof is formed on the fruit.

1,947,170
PRINTING PLATE FOR COLLAPSIBLE TUBES
Walter Prussing, Brooklyn, N. Y.
Application February 12, 1931. Serial No. 515,231
13 Claims. (Cl. 101—415.1)



1. In a machine for printing thin collapsible tubes, a revoluble support for a printing plate, said support having a segmental cylindrical surface on one side of the axis of rotation of the support, a pair of opposed arms, each having openings therethrough, extending from the support in spaced relation to the surface and on the other side of the axis, said support having a recess therein between each arm and the surface, threaded adjusting and securing members passing through the perforations of the arms, a pair of engaging members each having a substantially cylindrical recess along one edge thereof, said recess being constricted at the top, the threaded members being screwed into said engaging members, a resilient copper printing plate bent to fit the segmental surface of the support and having depending sides, the peripheral portions of said sides being of greater thickness than the remainder of the sides, and terminating in thickened cylindrical eyes inserted into the recesses of the engaging members and held therein by the engagement thereof with the constricted parts of the recesses, and stiffening rods in said eyes.

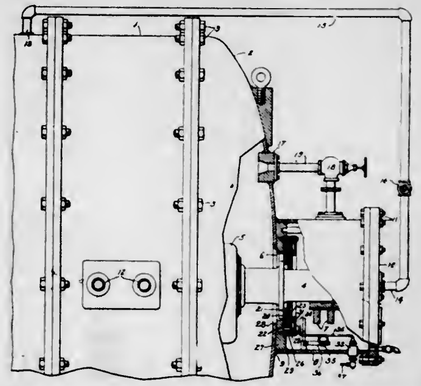
1,947,171
TUBE MAKING, CAPPING, PRINTING AND ENAMELING MACHINE
Walter Prussing, Brooklyn, N. Y.
Application December 31, 1931, Serial No. 584,047, and in Canada May 1, 1931
27 Claims. (Cl. 29—38)



1. In a machine for making thin metal collapsible tubes, means for extruding a tube from a blank, means for trimming the ends of the tube, for threading the neck thereof, and for applying a cap to the threaded neck, means for advancing the tube from the extruding means to the trimming and capping means, means for enameling the tube, means for dismounting the capped tube from the trimming and capping means, and for mounting the capped tube on the enameling means, means for removing the capped and enameled tube from the enameling means, means for advancing and drying the enameled tube, means for removing the tube from the advancing means and for mounting said tube on a printing means, means for printing the tube, means for removing the printed tube from the printing means, and means for again advancing and drying the printed tube.

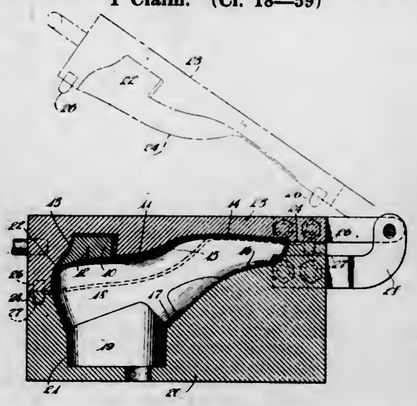
18. In a machine of the character described, a conveyor, spaced members on the conveyor each adapted to be inserted into a collapsible tube for holding and carrying said tube, a mandrel spaced from said members, and means for removing the tube from the conveyor and for mounting said tube on the mandrel comprising a reciprocating rod, a plate on said rod for engaging a tube on one of the pins and for pushing on the open end of the tube to remove it from the supporting member therefor, a chute for receiving the tube thus removed from the pin, said chute being shaped to receive the threaded end of the tube first and to turn said tube through an angle of 180°, a cross member in the path of the removed tube and at the chute entrance for controlling the movement of the removed tube, means at the discharge end of the chute for advancing the tube longitudinally and for aligning a series of tubes in a row with the corresponding ends thereof in one direction, and a reciprocating rod for engaging the end of the tube and for mounting the tube upon the mandrel.

1,947,172
SHAFT SEAL
Leland W. Riggs, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 30, 1932. Serial No. 589,899
3 Claims. (Cl. 286—11)



2. A shaft seal comprising a rotatable disk, a stationary plate adjacent said disk, an annular flexible diaphragm secured to said plate and normally out of contact with said disk, and means for supplying fluid to said diaphragm to extend the same into contact with said disk and thereby close said seal.

1,947,173
METHOD OF MAKING A MOLDED RUBBER SHOE
Ralph E. Riley, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 24, 1932. Serial No. 613,202
1 Claim. (Cl. 18—59)



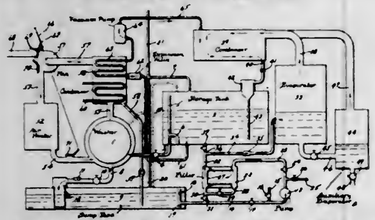
The method of making a molded rubber shoe which comprises completely enclosing a heel filler and an arch stiffener by molding a rubber

composition about them, excess rubber being permitted to escape along a parting line following the path of maximum horizontal bulging of the shoe, and simultaneously forming an ornamental band along the line of parting to mask the parting line.

1,947,174
APPARATUS FOR CLEANING FABRICS

Joseph B. Sando, Norwood, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio

Application March 25, 1931. Serial No. 525,204
7 Claims. (Cl. 68—38)

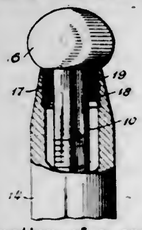


1. Apparatus for treating fabric with a volatile detergent, comprising a fabric treating compartment wherein the fabric is subjected to liquid detergent, a condenser operatively connected with said treating compartment for recovering liquid detergent from the vapor leaving said treating compartment during a cleaning operation, and means for passing a part of the volatile detergent used in fabric treating operations through said condenser as a refrigerant to thereby render said condenser effective as a condensing means.

1,947,175
THERMOMETER

Ralph F. Schneider, Jersey City, N. J.

Application October 1, 1932. Serial No. 635,739
3 Claims. (Cl. 206—16.5)



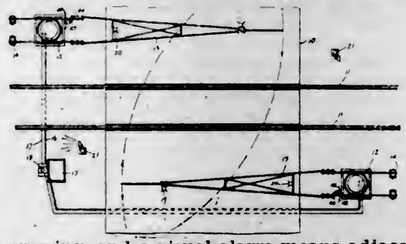
1. The combination of a casing open at one end and provided with internal screwthreads at said open end, a thermometer adapted to be encased in said casing, a head located at one end of said thermometer and forming an integral part thereof, and a screwthreaded collar independent of said head in fixed position upon said thermometer in proximity to said head for co-operation with said internal screwthreads to removably fasten said thermometer in said casing with said head located exteriorly thereof.

1,947,176
GATE CONSTRUCTION

John Frederick Schrontz, Indianapolis, Ind., assignor, by mesne assignments, to Ralph R. Scheidler, Marion County, Ind.

Application May 31, 1930. Serial No. 458,682
4 Claims. (Cl. 246—128)

1. In combination with a crossing gate for protecting a road and track crossing, an initiating circuit automatically operated by a track supported vehicle when approaching a crossing, crossing gate closing mechanism operable by said circuit, alarming means immediately adjacent the crossing for simultaneously warning the vehicle operators upon both track and road at

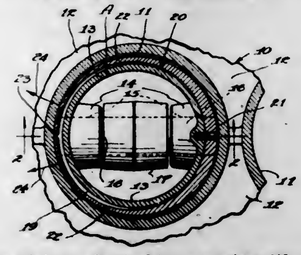


the crossing, and a visual alarm means adjacent the track and operable by the circuit and sufficiently remote from the crossing for warning the operator of the vehicle upon the track of the general operative condition of the mechanism in the vicinity of the crossing.

1,947,177
PISTON

Harold H. Timian, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia

Application March 19, 1931. Serial No. 523,753
23 Claims. (Cl. 309—5)

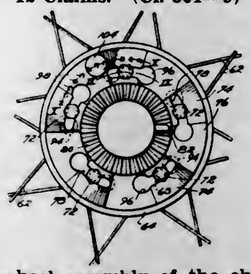


1. In a piston adapted to operate with clearance in an engine cylinder, a wrist pin, said piston having a circumferentially extending groove therein, and a spring ring secured in said groove and adapted for yielding engagement with the cylinder wall adjacent one end of said wrist pin for yieldingly urging the piston across the cylinder in a direction axially of said wrist pin, said ring having clearance with respect to the cylinder adjacent the point where same is secured to the piston.

1,947,178
INTERLOCKING WHEEL

Francis Condry Wilson, North Kansas City, Mo.

Application July 11, 1932. Serial No. 621,881
12 Claims. (Cl. 301—9)



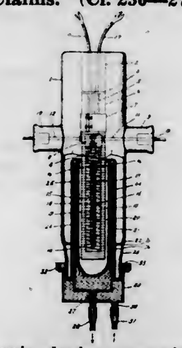
1. In a wheel assembly of the character described, an axle attachment; a slotted shell re-

movably carried by the attachment; a bolt through each slot respectively and entering said axle attachment; a locking plate, having inclined faces underlying the heads of said bolts; and an annular rack formed on the face of said plate whereby force is imparted to said plate to move the inclined faces along beneath said bolt heads, said slots being disposed in an annular path concentric with the annular rack and circumscribing the same.

1,947,179
ELECTRON DISCHARGE APPARATUS

Marcus A. Acheson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application February 21, 1929. Serial No. 341,781
6 Claims. (Cl. 250—27.5)



1. A thermionic device comprising an evacuated envelope closed by a metal member adapted to serve as an electrode, one portion of said member constituting a rectilinear extension of the envelope and another portion of said member being oppositely directed with respect to said one portion, said oppositely directed portion comprising a double-walled member adapted to receive a cooling fluid, and a partition mounted between the walls of said double-walled member for directing the flow of cooling fluid through said member.

1,947,180
TARNISH RESISTING SILVER

Blasius Bart, East Orange, N. J., assignor to Precious Metals Developing Company, Inc., a corporation of New Jersey

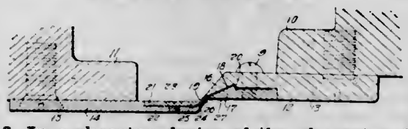
No Drawing. Application January 21, 1931
Serial No. 510,271
5 Claims. (Cl. 204—13)

3. A silver article having thereon successive electro-deposited coatings of nickel, palladium and rhodium.

1,947,181
SHEARING DEVICE FOR LOOMS AND BLADES THEREFOR

Marcus B. Behrman, Brooklyn, N. Y., assignor to The Lox Seal Corporation, New York, N. Y., a corporation of New York

Application May 15, 1930. Serial No. 452,559
18 Claims. (Cl. 164—34)

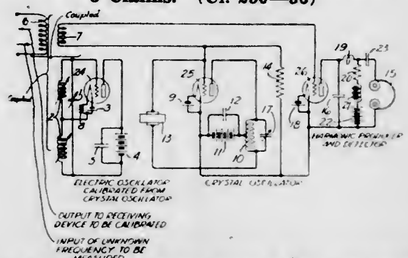


13. In a shearing device of the character described, an elongated shearing member having an operative, curved, longitudinal edge, said member being provided with a longitudinal slot adjacent and substantially parallel to said edge and coextensive in length therewith, said slot having a uniform transverse cross-section with an enlargement at the inner or rear end of the slot, and an elongated, wafer-type blade having a normally straight cutting edge and a uniform transverse cross-section conforming to the cross-section of said slot, whereby the blade may be removably inserted endwise into said slot; said blade having a width so small with respect to its length that the engagement of the blade with said enlargement will cause the blade to flex substantially in its own plane to conform said cutting edge with said curved operative edge of said shearing member.

1,947,182
CONSTANT FREQUENCY APPARATUS

Philander H. Betts, Belmar, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 7, 1930. Serial No. 459,772
3 Claims. (Cl. 250—36)



1. A crystal calibrated wave meter comprising an electric oscillator, a crystal oscillator, a detector, and means for receiving a wave of unknown frequency, in combination with means for impressing waves from said electric oscillator and said crystal oscillator on said detector, means for impressing the wave from said electric oscillator and said unknown wave on said detector, and means for observing a beat note produced in said detector.

1,947,183
UPPER FOR FOOTWEAR AND METHOD OF MAKING SAME

Virgil H. Bodle, Newton, Mass., assignor to Hood Rubber Company, Inc., Watertown, Mass., a corporation of Delaware

Application April 11, 1933. Serial No. 665,487
6 Claims. (Cl. 36—47)



1. A shoe upper comprising integral vamp, quarters, eyelet-stay, and tongue, cut from a single sheet of material.

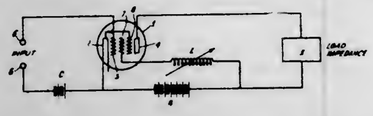
1,947,184
PENTODE OUTPUT CIRCUITS

Rene A. Braden, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 20, 1931. Serial No. 517,154
12 Claims. (Cl. 179—171)

1. In combination, a pentode tube including a cathode, a control electrode, a screen grid, an

anode, and a shield grid at cathode potential disposed between the screen grid and anode, a load in the external circuit connected to the anode



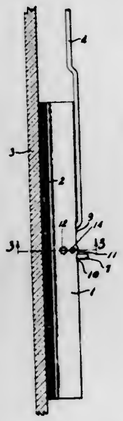
whose impedance decreases with increasing frequency, and a reactive impedance in the screen grid circuit of the tube to counteract said load impedance decrease.

1,947,185

WINDSHIELD WIPER BLADE

Frank Browett, Cleveland, Ohio

Application December 26, 1931
Serial No. 583,186
2 Claims. (Cl. 15—250)



1. A windshield wiper blade for detachable connection to the generally hook-shaped end portion of an actuating arm, said blade comprising a generally U-shaped holder having arranged between the legs thereof a yielding windshield wiping element, said holder being provided with a socket for detachably receiving the generally hook-shaped end portion of such an actuating arm, whereby said holder is detachably connected with said arm for actuation thereby, and means in said socket for providing a bearing support for said arm end portion, through which bearing support pressure is applied by said arm to said blade for causing the wiping element thereof to yieldingly but firmly engage the windshield to be wiped, said means being of such size and shape that said arm end portion has substantially point contact with said bearing support.

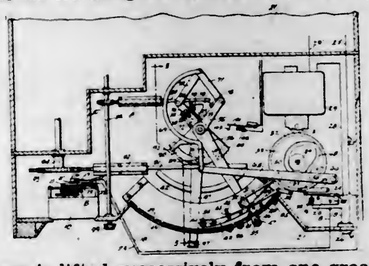
1,947,186

AUTOMATIC RADIO TUNING APPARATUS

Roy B. Bryant, Dallas, Tex.

Application May 22, 1930. Serial No. 454,790
2 Claims. (Cl. 250—20)

1. In an automatic radio tuning apparatus, a panel board having transverse grooves, a plunger slidable in said grooves, a ratchet bar for engaging said plunger, automatic means for engaging the ratchet bar with the plunger, and automatic means for elevating the ratchet bar, whereby the



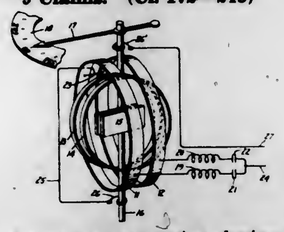
plunger is lifted successively from one groove to the next groove of the board.

1,947,187

TEMPERATURE COMPENSATION FOR ELECTRICAL DEVICES

Earl W. Clark, East Lynn, and Ernest Gilbertson, Lynn, Mass., assignors to General Electric Company, a corporation of New York

Application October 30, 1931. Serial No. 572,204
9 Claims. (Cl. 172—245)



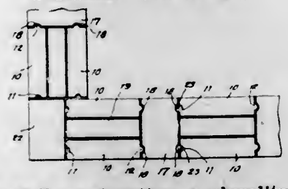
9. In a frequency responsive device a pair of electric circuits carrying currents which vary relatively to each other in accordance with variations in frequency, at least one of said circuits including capacitative reactance, one of said circuits including a reactance which varies in magnitude with variations in temperature to compensate said circuits for changes in temperature.

1,947,188

INTERLOCKING BRICK-BLOCK CONSTRUCTION

Frank E. Clark, Bridgeport, Conn.

Application May 4, 1931. Serial No. 534,921
2 Claims. (Cl. 72—38)



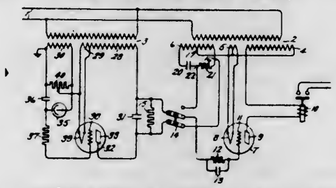
1. In a wall construction, a plurality of block units having vertical end surfaces adapted to oppose each other in spaced relation to provide a vertical mortar joint, one of said end surfaces having a vertically disposed rib, and a tie block unit of a width at least corresponding to the width of two of said block units having vertical end surfaces, each of said end surfaces having a plurality of vertical grooves substantially deeper and wider in cross-sectional area than the depth and width of the cross-sectional area of said rib of the other block units and adapted to receive said rib with the vertical edges of said grooves outwardly spaced from the edges of said ribs; whereby a plurality of vertical pillars of mortar are provided in said joint, said pillars being of greater thickness than the remainder of said joint, the surface engagement of said pillars with said grooves being of relatively large extent and the surface engagement of said pillars with said ribs being of relatively small extent.

1,947,189

CONTROL APPARATUS FOR VAPOR ELECTRIC DISCHARGE DEVICES

William D. Cockrell, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 26, 1933. Serial No. 682,231
7 Claims. (Cl. 250—41.5)



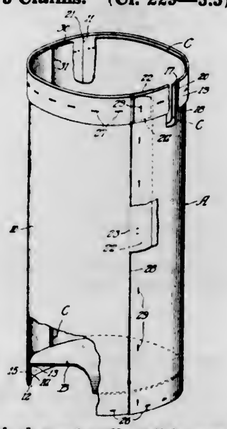
1. In combination, a source of alternating current supply, a grid controlled vapor electric discharge device connected to be energized from said supply and operative on the positive half cycles thereof, a reactance device, rectifying means for supplying current thereto from said supply during the negative half cycles, means for supplying a bias voltage from said source and means for applying to said grid the voltage across said reactance device combined with said bias voltage.

1,947,190

COLLAPSIBLE CONTAINER

Richard J. Cody, Evanston, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware

Application December 31, 1930, Serial No. 505,781
Renewed September 5, 1933
5 Claims. (Cl. 229—5.5)



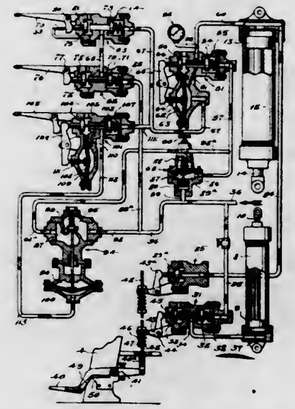
1. A barrel-shaped collapsible container, composed of impregnated box board, comprising an outer wall suitably scored vertically to permit collapsing, an inturned flange formed integral with the outer wall to provide an inner shoulder, an outwardly turned reinforcing flange at the opposite end forming a shoulder serving as a hand hold, a disc supported upon the inner shoulder to hold the outer wall in expanded condition, and an inner liner separate from the outer wall, fitting within the same and resting flush upon the outer edge of the disc, said liner having its edges loosely slidable with reference to each other without any fastening means whatever, whereby, when the container is filled, the contents thereof force the inner liner to conform to the outer wall, and the lower edge of the liner is maintained in fixed contact with the upper edge of the disc to maintain it from upward displacement.

1,947,191

POWER PRESSING MACHINE

Ernest Davis and Lester C. Kienzle, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York

Application August 4, 1930. Serial No. 473,027
16 Claims. (Cl. 68—9)



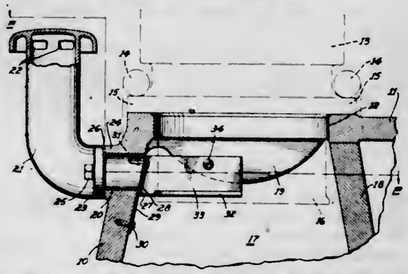
1. In a pressing machine cooperative pressing elements, one of which is movable with respect to the other; operating means for the movable pressing element; control means for said operating means, including mechanism for regulating the pressure exerted by the operating means, and means for controlling the operating means independently of the mechanism for regulating the pressure.

1,947,192

INTERNAL COMBUSTION ENGINE

Herbert C. Edwards, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application June 1, 1931. Serial No. 541,256
6 Claims. (Cl. 121—194)



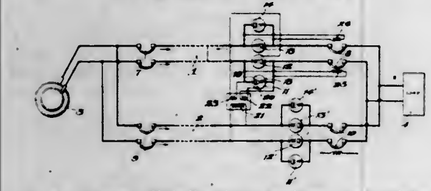
1. In an internal combustion engine, a crank case having a breather opening in the upper por-

tion of its wall, a cylinder extending into the crank case in spaced relation from the opening, and baffle means forming an imperforate wall extending across the space between the crank case wall and the cylinder beneath the opening.

1,947,193
ELECTRICAL POWER DISTRIBUTION SYSTEM

Earl R. Evans, Washington, D. C.

Application February 25, 1931. Serial No. 518,277
15 Claims. (Cl. 175—294)

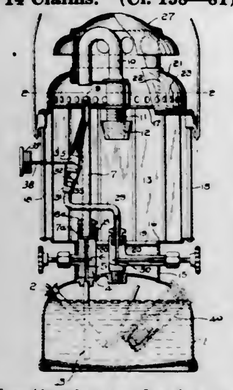


1. A power distribution system comprising a plurality of parallel-connected alternating-current feeder circuits; space-discharge means in one feeder for preventing reverse-energy flow in said feeder; and means connected to another feeder for controlling the space-discharge means in said one feeder.

1,947,194
PREHEATING DEVICE FOR HYDROCARBON BURNERS

Walter B. Engh, Chicago, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois

Application August 1, 1930. Serial No. 472,318
14 Claims. (Cl. 158—81)



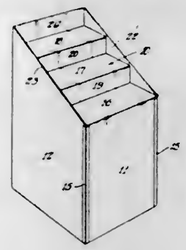
1. A pre-heating burner having means for sustaining a wick, including a source of high-pressure air, and an opening disposed between said source and said wick-sustaining means through which low-pressure air may be entrained by and supplement the volume of said high-pressure air.

1,947,195
DISPLAY STAND

Roy L. Flynn, Philadelphia, Pa., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware

Application April 28, 1931. Serial No. 533,475
4 Claims. (211—156)

1. A collapsible terraced display stand comprising three blanks, one of said blanks forming the rear and side walls, another blank secured by suitable means to the first mentioned blank and forming the front wall of the stand, said second mentioned blank provided with a terrace forming extension, another blank forming V-shaped bracing means, said bracing means when

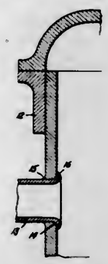


in place within the stand, adapted at an intermediate portion to abut the front wall and at its edges to abut the corners formed by the rear and side walls, and provided with off-set cutaway portions on the upper edge to provide staggered supporting means for said terrace forming extension of the front wall.

1,947,196
ENCASED ELECTRICAL APPARATUS WITH EXTERNAL HEAT RADIATOR AND METHOD OF MAKING THE SAME

John J. Frank, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application July 15, 1931. Serial No. 551,012
4 Claims. (Cl. 29—157.5)



1. The method of assembling a radiator pipe connection and an electrical apparatus casing, said method including the steps of punching an opening through said casing from the inner surface thereof, whereby the inner edge of said opening is rounded, inserting said pipe connection through said opening, flanging said pipe connection over said rounded edge of the opening, and welding said flange to said casing.

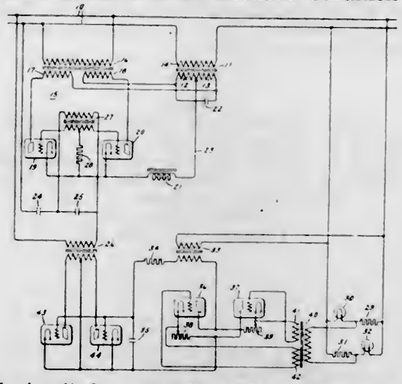
1,947,197
REGULATING SYSTEM

George W. Garman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application April 17, 1931. Serial No. 530,881
9 Claims. (Cl. 171—119)

1. The combination of an alternating current circuit, a booster transformer connected to said circuit, a pair of primary windings for said transformer, means for alternately energizing said

windings including a pair of electric valves, and means responsive to an electrical condition of

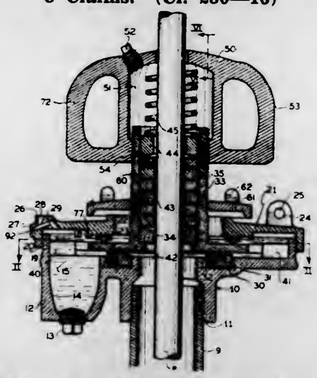


said circuit for controlling the conductivity of said valves.

1,947,198
FLOATING STUFFING BOX

Bert G. Goble, Tulsa, Okla., assignor to W. A. Quigley

Application February 10, 1930. Serial No. 427,236
8 Claims. (Cl. 286—16)



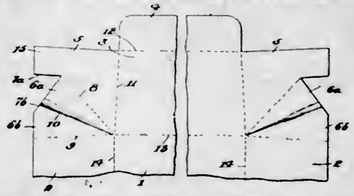
1. A floating stuffing box comprising a body member having a threaded opening adapted to be screwed onto tubing, said body member having a groove concentric about the threaded opening, a packing ring in said groove, a circular exteriorly threaded flange formed integrally with the body member, a threaded cover plate adapted to be screwed onto the aforesaid threaded flange in adjustable relationship thereto, a stuffing box member having a radially extending bottom plate portion adapted to slidably rest upon the packing ring and anti-friction means inserted between the cover plate and the radial extending bottom plate portion.

1,947,199
BOX

Charles H. Goodnow, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware

Application November 3, 1930. Serial No. 492,889
6 Claims. (Cl. 229—31)

1. A suit box having gussets connected to its sides and ends, the lines connecting the gussets and ends being out of line with the lines connecting the sides and bottom, and the gusset members adjacent the sides each having a flexible fold-



ing line to assist bulging when the sides are folded inwardly to lie against the bottom.

1,947,200
METHOD OF REDUCING OIL CONTENT OF SOYA

Louis W. Haas and Herbert O. Renner, Chicago, Ill., assignors, by mesne assignments, to J. R. Short Milling Company, Chicago, Ill., a corporation of Illinois

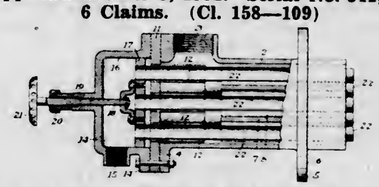
No Drawing. Application June 15, 1932
Serial No. 617,474
12 Claims. (Cl. 99—11)

1. The improvement in methods of treating soya which comprises adjusting the moisture content of ground soya meal to approximately 10%, preliminary to pressing the meal.

1,947,201
LUMINOUS FLAME GAS BURNER

Frank J. Hacker, Leetsdale, Pa., assignor to Tate-Jones & Company, Incorporated, Leetsdale, Pa., a corporation of Pennsylvania

Application June 3, 1931. Serial No. 541,858
6 Claims. (Cl. 158—109)

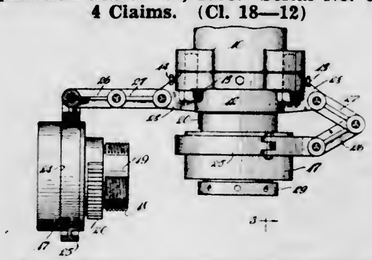


2. In a burner, a burner body, a gas chamber in alinement with said body, a guide tube sheet intermediate said chamber and body and carrying a series of guide tubes projecting into said body, a burner tube sheet in said chamber carrying a series of burner tubes in alinement with said guide tubes, means for adjusting said burner tubes, and means providing an air chamber within said body for each burner tube.

1,947,202
EXTRUDING MACHINE HEAD

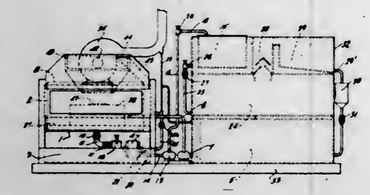
Otto F. Homeier, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application March 24, 1933. Serial No. 662,463
4 Claims. (Cl. 18—12)



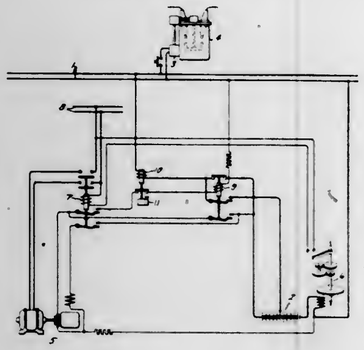
1. An extruding machine comprising an extruding cylinder, a die-supporting head therefor, a pair of dies hinged to said head for selective engagement with said head, and means for detachably locking said head to either of said dies.

1,947,203
APPARATUS FOR TREATING FABRIC
Russell A. Hetzer, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application January 19, 1931. Serial No. 509,615
1 Claim. (Cl. 202—178)



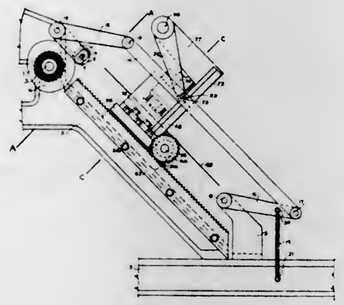
Apparatus of the character described, comprising a solvent filter, an evaporator, a condenser, and a storage tank, all of said parts being operatively interconnected together and arranged in a single container, with the filter at the top, the storage tank at the bottom, and the evaporator intermediate the filter and the storage tank, the bottom wall of the evaporator being adjacent the top wall of the storage tank and the evaporator being directly below said filter and serving as a means for pre-heating the solvent passing therethrough, means for conducting liquid from said filter to said evaporator, an open passage connection from said evaporator to said condenser positioned thereabove, and baffle means in said open passage serving to spread the vapor arising out of said evaporator and as a water condensing means for removing the water from the solvent vapor stream for return to said evaporator, and means for conducting condensed liquid from said condenser to said storage tank.

1,947,204
CONTROL SYSTEM
Earle A. Hoxie, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application August 27, 1931. Serial No. 559,743
4 Claims. (Cl. 171—314)



1. In combination, a load circuit, a storage battery connected thereto, charging means for said battery, and independent means responsive respectively to the simultaneous occurrence of relatively light load conditions on said circuit and to the charging of said battery for jointly causing disconnection of a portion of said battery from said circuit.

1,947,205
PAPER MANUFACTURING MACHINE
Edward T. Jaeger, Rockville Center, N. Y., assignor to Oneida Paper Products Incorporated, Brooklyn, N. Y., a corporation of New York
Application December 21, 1932
Serial No. 648,166
5 Claims. (Cl. 164—12)



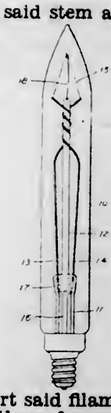
1. In combination, a punch; a strip of continuous material fed intermittently past said punch; a source of power; means controlled by said source of power for feeding said material intermittently past said punch; cam means controlled by said source of power for operating said punch; a rack for said punch; means including said rack for moving said punch; and means whereby the cam maintains control of said punch continuously as said punch is moved along said rack.

1,947,206
CEMENTED COLUMBIUM CARBIDE
Floyd C. Kelley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application February 14, 1931
Serial No. 515,897
2 Claims. (Cl. 75—1)

1. A sintered composition containing about 3% to about 25% of a metallic binder material, the remainder of said composition consisting substantially of columbium carbide, said binder material having a lower melting point than said carbide and consisting mainly of metal of the iron group.

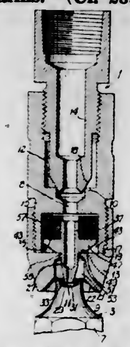
1,947,207
ELECTRIC INCANDESCENT LAMP
Gottfried Lessmann, Rehbrucke, Zauche, Germany, assignor to General Electric Company, a corporation of New York
Application November 26, 1930, Serial No. 498,367, and in Germany February 8, 1930
3 Claims. (Cl. 176—38)

1. In an electric incandescent lamp, the combination of an elongated bulb, a glass stem therein comprising an arbor, a filament, and inner leads extending from said stem and connected to and



serving to support said filament, said inner leads having portions thereof wound around said arbor.

1,947,208
COUPLING
William Z. Linders, Normandy, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application April 20, 1933. Serial No. 666,969
3 Claims. (Cl. 285—161)

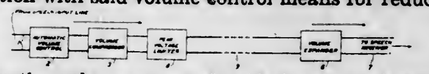


1. A coupler comprising a body having a hollow interior and an exterior opening communicating therewith, a hollow nipple extending into said opening, said nipple having a flange within the opening, a seat on the body portion beneath said flange, and resilient packing means between said nipple and the walls of said hollow interior, the seat and the flange being relatively flat at the region of the engagement, the seat being formed to permit passage therethrough of the nipple and rocking of the flange on said flat seat, said flange having a conical relieved portion adapted to permit rocking about a point substantially within the periphery of the flange and hence without excessive lifting of the packing.

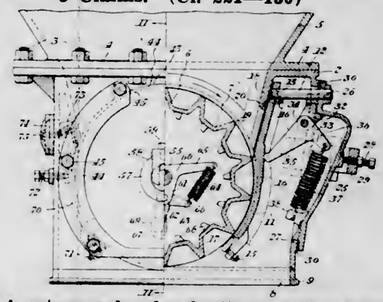
1,947,209
SPEECH AMPLITUDE CONTROL
Robert C. Mathes, Wyoming, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 30, 1932, Serial No. 620,156, and in Great Britain February 27, 1932
6 Claims. (Cl. 178—44)

1. In a transmission system, an input circuit supplied with signals having substantially the same volume range and different average volume

levels, volume control means for maintaining a constant maximum speech level for said received signals, volume compression means in series relation with said volume control means for reducing the volume range of said signals, and peak voltage limiting means in series relation with said volume compression means for reducing the ratio of maximum and minimum speech power of said signals.
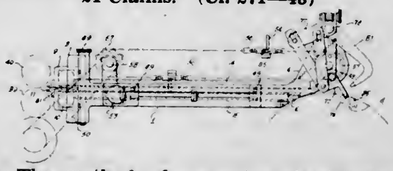


1,947,210
ROTARY VALVE
Harold E. McCrery, Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa., a corporation of New Jersey
Application January 23, 1932. Serial No. 588,478
5 Claims. (Cl. 221—130)



1. A rotary valve for feeding powdered material, comprising a casing open at the top and bottom, a rotor provided with pockets inside the casing, and a sliding side plate for maintaining the material in the pockets, the side plate being yieldably held in position adjacent the rotor but bodily movable therefrom in order to pass obstructions through the valve.

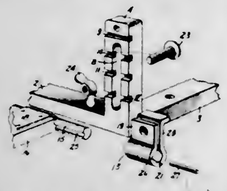
3. A rotary valve for feeding powdered material, comprising a hollow rotor having pockets in its periphery, lugs spaced around the inside of the rotor, a pivoted striker positioned to contact with a lug as the rotor is rotated, and a spring secured to the striker for returning it to proper position for striking another lug upon further rotation of the rotor.

1,947,211
METHOD OF AND APPARATUS FOR CONVEYING SHEET MATERIAL
Edwin C. McFarlane, Pearl River, N. Y.
Application August 27, 1931. Serial No. 559,624
21 Claims. (Cl. 271—48)



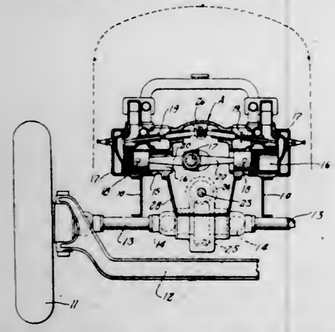
1. The method of conveying sheet material, which consists in placing a sheet of material in substantially horizontal position, directing blasts of fluid against both its upper and lower surfaces in angular relation to the surfaces of the sheet and in the same general direction to cause the sheet to travel edgewise at a speed in excess of that desired, and restraining the sheet to cause it to travel at the speed desired.

1,947,212
CHAIR AND FOOT REST THEREFOR
Walter R. Malcolm, Albany, N. Y.
Application May 26, 1932. Serial No. 613,646
7 Claims. (Cl. 155—172)



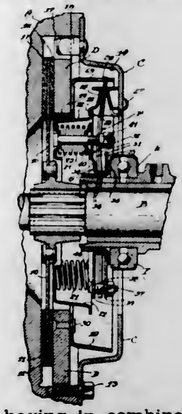
7. In combination with a rocking chair, a foot-rest device, said device comprising a foot element with trunnions projecting therefrom, an angle element for each rocker, each element having two arms, one secured to the corresponding rocker and the other projecting upwardly in front of its rocker, a clamp bearing supporting each trunnion between the jaws thereof and the foot element in front of the rocker, means for securing each lamp bearing as a whole to a corresponding one of said upwardly projecting arms in any one of several positions along the length of the latter, and tongue and groove means between one of said trunnions and its clamp whereby the foot element may be adjusted in different positions.

1,947,213
INTERNAL COMBUSTION ENGINE
Andre J. Meyer, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application October 9, 1930. Serial No. 487,404
28 Claims. (Cl. 180—42)



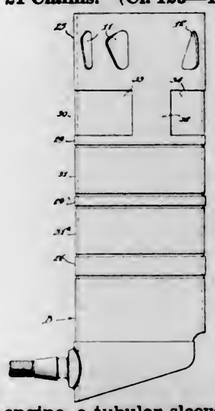
1. In a vehicle of the character described, the combination of a chassis and engine supported thereby, said engine provided with aligned cylinders having axes inclined with respect to the vertical central longitudinal plane of the vehicle, said engine being further provided with a crankshaft having an axis contained in said vertical central longitudinal plane of the vehicle, front vehicle wheels adapted to be driven by said engine, power transmission means positioned rearwardly of said engine, and driving means extending from said power transmission means and operatively connected to drive said front vehicle wheels, said driving means including a wheel driving shaft and a power shaft positioned in said vertical central longitudinal plane of the vehicle and in a horizontal plane below the crankshaft axis and above the horizontal plane containing the axis of the wheel driving shaft.

1,947,214
CLUTCH
Andre J. Meyer, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application July 6, 1931. Serial No. 548,795
15 Claims. (Cl. 192—68)



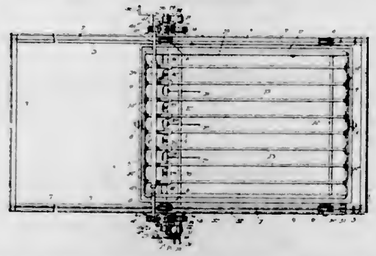
1. A clutch having in combination, a driving member, a driven shaft, a disc connected to the shaft, a pressure plate driven by said driving member and movable for engagement and disengagement with said disc, laminated levers adapted to move the pressure plate, said pressure plate having an opening through which said shaft extends, an abutment within said opening, and a plurality of springs spaced around said shaft operating intermediate said abutment and said levers.

1,947,215
ENGINE
Andre J. Meyer, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application February 6, 1932, Serial No. 591,251
Renewed July 27, 1932
21 Claims. (Cl. 123—196)



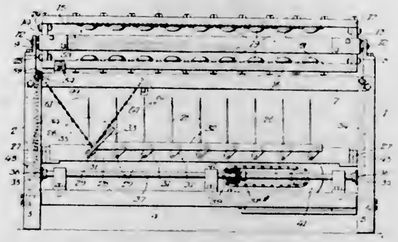
1. In an engine, a tubular sleeve valve adapted for movement in a cylinder of the engine, said sleeve having a plurality of longitudinally spaced cylinder bearing portions with intermediate clearance portions of less diameter than that of said bearing portions, one of said clearance portions being constructed to control oil travel outwardly of the sleeve.

1,947,216
APPARATUS FOR COVERING MATTRESSES
David Micon, Milwaukee, Wis.
Application February 9, 1931. Serial No. 514,425
4 Claims. (Cl. 112—3)



1. A mattress covering apparatus comprising a frame, a carrier for retaining a mattress and being movable along said frame, a shaft having fixed thereon two rows of spaced apart needles for piercing said mattress, said rows lying in planes at least 90° apart, and means for rotating said shaft for selectively aligning either row in position for piercing of the mattress.

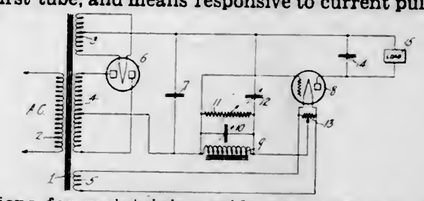
1,947,217
MATTRESS TUFTING MACHINE
David Micon, Milwaukee, Wis.
Application October 29, 1931. Serial No. 571,716
6 Claims. (Cl. 112—3)



1. A mattress tying machine comprising a frame and a mattress holder mounted thereon for movement about a horizontal axis, means including a plurality of needles for piercing the mattress from below simultaneously at all tying positions, means for withdrawing said needles simultaneously, the axis of said holder being close enough to the top of said needles when the latter are in vertical but withdrawn position so that the needles prevent rotation of the mattress holder about said axis, and means for inclining the needles simultaneously to lower their points sufficiently to permit of rotation of said holder about said axis.

1,947,218
ELECTRICAL FILTER SYSTEM
Benjamin F. Miessner, Short Hills, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application May 3, 1929. Serial No. 360,042
17 Claims. (Cl. 179—171)

14. In combination, a source of uni-directional pulsating current, an electron discharge tube provided with signal input and output circuits, a filter system, including an amplifier tube having its input circuit coupled to said signal output circuit, through which said current flows to said first tube, and means responsive to current pulsations for maintaining said current flow to the first tube free of pulsations.

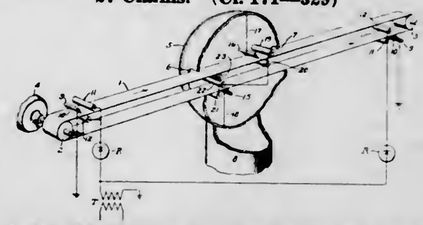


1,947,219
TREATMENT OF MOTOR FUEL
Paul I. Murrill, Norwalk, Conn., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 21, 1931
Serial No. 539,134
15 Claims. (Cl. 44—9)

1. The process of treating cracked gasoline, which comprises mixing therewith before the formation of any substantial amount of gum in the gasoline, a diaryl arylene diamine in an amount sufficient to inhibit gum formation.

15. A motor fuel comprising gum-forming constituents produced by the cracking of petroleum compounds at a high temperature and diphenyl-p-phenylene-diamine in an amount sufficient to inhibit gum formation.

1,947,220
ELECTROSTATIC MACHINE
Clifford A. Nickle, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 2, 1932. Serial No. 596,187
27 Claims. (Cl. 171—329)

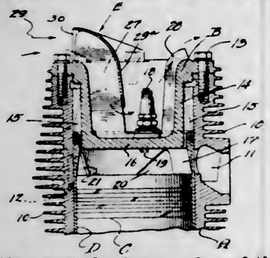


1. An electrostatic machine having an insulating belt, means for supporting said belt in the form of an elongated loop, a charge accumulating body surrounding both sides of said belt-loop intermediate the ends thereof, means for driving said belt, and means utilizing both ends of said belt-loop for charging said body.

1,947,221
INTERNAL COMBUSTION ENGINE
Archie Macphail Niven, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Original application March 23, 1928, Serial No. 264,265, now Patent No. 1,739,255, dated December 10, 1929. Divided and this application September 9, 1929. Serial No. 391,127
15 Claims. (Cl. 123—171)

1. In an air cooled internal combustion engine of the sleeve valve type, a cylinder structure, a piston, sleeve valve means, a cylinder head structure having a recessed portion depending within the cylinder, a cooling fin within the recessed portion of the cylinder head, and an air deflector cooperating with said cooling fin and said cylinder

head structure for deflecting the cooling air in a defined path bounded by the wall of said re-



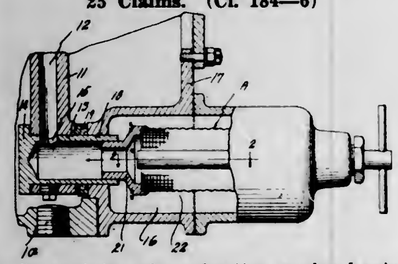
cessed portion and the inner edge of the fin into contact with the cooling fin.

1,947,222

INTERNAL COMBUSTION ENGINE

Archie M. Niven, Detroit, Mich., assignor, by mesne assignments, to Continental Aircraft Engine Company, a corporation of Delaware

Application November 26, 1929
Serial No. 409,974
25 Claims. (Cl. 184—6)



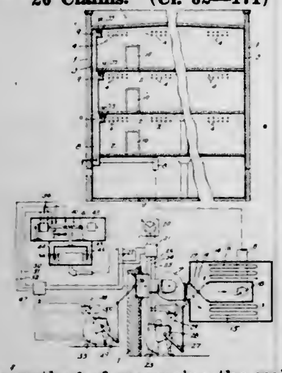
1. In an internal combustion engine having a crankcase and a gear case secured thereto, said crankcase provided with means for supporting one or more mechanisms to be lubricated, and with means for conducting oil to said mechanism, an oil filter assembly therefor, which comprises, a nipple detachably supported by said crankcase and communicating with said oil conducting means, and an oil filter including a casing therefor secured to said gear case and connected with said nipple.

1,947,223

REFRIGERATING ROOMS AND BUILDINGS

Fred Ophuls, Brooklyn, N. Y.

Application January 6, 1930. Serial No. 418,728
20 Claims. (Cl. 62—171)



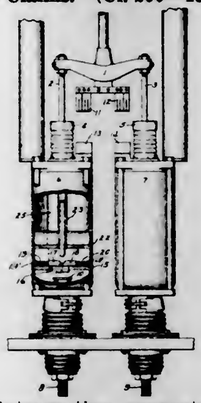
1. The method of preserving the wall structure of refrigerated spaces against the effects of moisture, which consists in maintaining an average air pressure in such space higher than the average external air passage, and sufficiently high to prevent intrusion of water vapor into the wall structure, from outside the space, to a point within the wall structure where the vapor can condense.

1,947,224

CIRCUIT INTERRUPTING APPARATUS

William E. Paul, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 26, 1929
Serial No. 395,412
10 Claims. (Cl. 200—150)



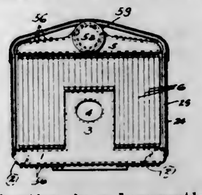
1. Circuit interrupting apparatus comprising stationary and movable contacts, an insulating partition through which the movable contact is withdrawn from the stationary contact, said partition defining upper and lower chambers in one of which the stationary contact is mounted, metallic conducting means resiliently biased so as to close the opening in said partition through which the movable contact is withdrawn subsequent to said withdrawal, and means directing the pressure developed by the initial part of the arc in the stationary contact chamber to effect a blast of extinguishing fluid from the last-named chamber across the arc between said metallic closing means and the movable contact in the other chamber.

1,947,225

LOCOMOTIVE BOILER

Harry M. Pflager, St. Louis, Mo., and Augustine R. Ayers, Cleveland, Ohio; said Pflager assignor of his entire right to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application January 11, 1932. Serial No. 585,978
16 Claims. (Cl. 122—235)



14. In combination in a locomotive fire box, a one piece hollow header of substantially inverted T shape having a cross bar extending from side to side of the fire box and a wide upright intermediate the end of said cross bar, there being alined openings in the front and rear walls of said upright with a continuous integral web extending through the upright at the edges of said openings to form a fire door, a header extending transversely of the fire box and spaced a substantial distance above said first-mentioned header, and a plurality of water tubes extending between said upper header and the upper walls of the cross bar and upright of said first-mentioned header.

CARNEGIE LIBRARY OF ATLANTA

1,947,226

PROCESS FOR MAKING TITANIUM WHITE

Hartmut W. Richter, Elizabeth, N. J.

No Drawing. Application September 9, 1932
Serial No. 632,392
6 Claims. (Cl. 23—202)

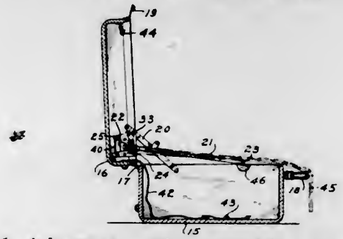
1. In the hydrolysis of highly acid solutions of titanium dioxid in sulfuric acid to produce a precipitate suitable for conversion into pigment the method of lowering the temperatures and pressures necessary for hydrolysis which comprises adding to such a highly acid solution a solution of more basic titanium sulfate containing sulfuric acid and TiO_2 in a weight ratio of less than 1.8:1.

1,947,227

LUGGAGE CARRIER

Julius Ritter, Jr., and William C. Chesnut, Racine, Wis., assignors to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin

Application January 12, 1933. Serial No. 651,264
5 Claims. (Cl. 190—41)



1. A luggage carrier comprising, hingedly connected main and cover sections, a frame pivotally mounted for swinging movement into and out of one of said sections, a bracket removably supported directly within said section, a plurality of removable garment carrier bars carried by said bracket, means for locking said bracket in its support by pivotal movement of said frame into said section, and means operable by the swinging movement of said frame for confining said garment bars on said bracket.

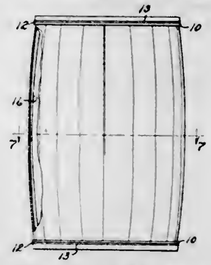
1,947,228

BARREL

Charles J. Robinson, Savannah, Ga.

Application January 17, 1933. Serial No. 652,217
1 Claim. (Cl. 220—5)

A barrel comprising a metallic blank bent into a barrel-like body and having adjacent ends bent to form attaching elements, a key connecting said elements, reinforcing elements formed on the blank and arranged within the barrel-like body and having ends thereof flattened, closures received in the ends of the barrel-like body, said closures extended to form flanges engaging with the outer face of the barrel-like body, said flanges and body having interfitting grooves, tongues struck from the flanges, and split bands fitting in the grooves of the flanges and having



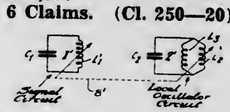
their ends bent to form hooks to engage the tongues.

1,947,229

HETERODYNE RECEIVING SYSTEM

Wilhelm Runge, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie mit beschränkter Haftung, Berlin, Germany

Original application November 6, 1925, Serial No. 67,206, now Patent No. 1,890,302, dated December 6, 1932, and in Germany November 15, 1924. Divided and this application August 22, 1932. Serial No. 629,837
6 Claims. (Cl. 250—20)



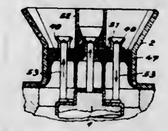
1. In a heterodyne receiving system, the combination of a receiving circuit and a local oscillation circuit, one of said circuits including a condenser, a fixed inductance and a variable inductance and the other of said circuits including only a condenser and an equal variable inductance, said variable inductances being of substantially similar characteristics throughout the range of variation, and common means for adjusting said variable inductances by equal amounts, the values of said fixed and variable inductances being so related that a beat frequency of substantially constant value is produced by adjustment of said variable inductances, the condenser in one of said circuits being greater than the condenser in the other.

1,947,230

ELECTRIC CIRCUIT BREAKER

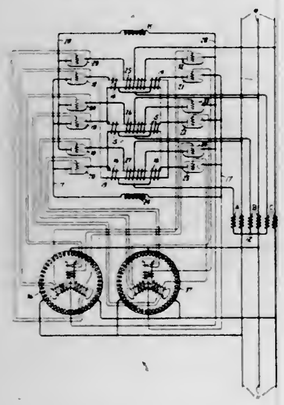
Sigwart Ruppel, Frankfort-on-the-Main, Germany

Application July 29, 1929, Serial No. 381,945, and in Germany August 6, 1928
5 Claims. (Cl. 200—148)



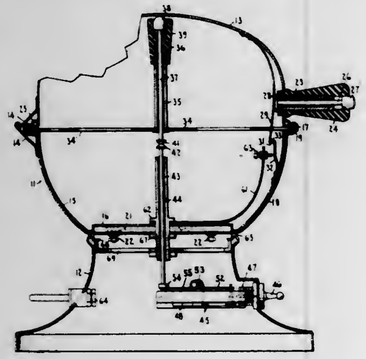
1. A multiple break circuit interrupter of the gas-blast type comprising relatively movable contacts forming breaks in series mounted within a main gas passage, and insulating structure coacting with said contacts forming separate gas passages within said main passage for each break, said insulating structure isolating said breaks and preventing flash-over between the same.

1,947,231
ELECTRIC TRANSLATING CIRCUITS
Camil A. Sabbah, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 16, 1932. Serial No. 587,144
Renewed July 8, 1933
7 Claims. (Cl. 172—246)



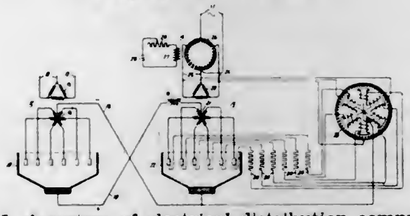
1. In combination, an alternating current circuit, electric valve means connected in series circuit relation with said alternating current circuit, and means for controlling the phase of the current transmitted by said valve means to determine the phase of the current in said alternating current circuit.

1,947,232
COOKING APPLIANCE
John E. Smith, Belleville, Ill., assignor to Knapp-Monarch Company, Belleville, Ill., a corporation of Missouri
Application January 13, 1932. Serial No. 586,339
22 Claims. (Cl. 219—43)



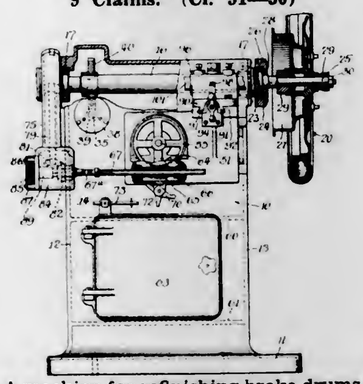
1. A cooking appliance comprising a bowl, a cover hingedly connected to said bowl, a heating element for said bowl, a switch therefor, a rod extending toward said cover, a guide therefor, and a food carrier having means engaging said rod when the carrier is positioned in said bowl and which is engaged by the cover when closed to press the rod to actuate the switch.

1,947,233
ELECTRICAL DISTRIBUTION
Max Stöhr, Berlin-Spandau, Germany, assignor to General Electric Company, a corporation of New York
Application May 28, 1932, Serial No. 614,203, and in Germany July 22, 1931
3 Claims. (Cl. 172—281)



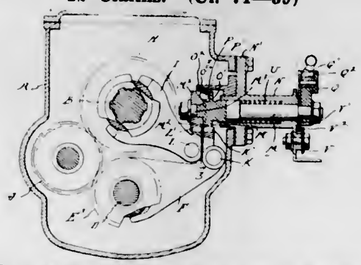
3. A system of electrical distribution comprising a polyphase alternating current supply circuit, a variable frequency single phase alternating current load circuit, an intermediate polyphase alternating current circuit of the frequency of said single phase circuit, an electric valve converting apparatus for transmitting energy from said supply circuit to said intermediate circuit and a rotary phase converter interconnecting said intermediate and single phase circuits for absorbing and releasing instantaneous differences between the steady power of said supply circuit and the pulsating power of said single phase system.

1,947,234
MACHINE FOR TRUING BRAKE DRUMS
Gustaf David Sundstrand, Rockford, Ill., assignor, by mesne assignments, to Mattison Machine Works, Rockford, Ill., a corporation of Illinois
Application December 21, 1928
Serial No. 327,628
9 Claims. (Cl. 51—50)



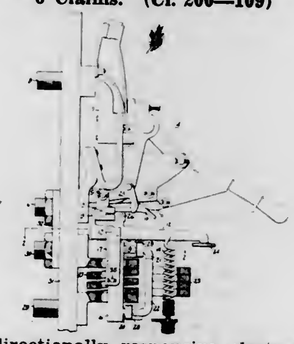
1. A machine for refinishing brake drums without the removal of the drums from the wheels, said machine comprising, in combination, a pedestal adapted to be secured in upright position on a floor, a horizontal spindle rotatably mounted in said pedestal and projecting therefrom at substantially the height of a workman's waist so as to facilitate the mounting of a wheel with its drum on said spindle, a motor mounted on one side of said pedestal and having a driving connection with said spindle, a carriage supported and guided on the forward side of said pedestal for movement parallel to said spindle, a finishing tool mounted on said carriage for manual adjustment transversely of said spindle, manually operable means for traversing said carriage parallel to the spindle, and automatically disengageable means operable by said motor to move said carriage parallel to said spindle at a feeding speed.

1,947,235
TRANSMISSION CONTROL MECHANISM FOR MOTOR VEHICLES
Horace T. Thomas and Albert B. Hays, Lansing, Mich.
Application December 27, 1932
Serial No. 649,102
12 Claims. (Cl. 74—39)



1. In a gear shifting mechanism, the combination of a rock shaft, a mounting for said rock shaft permitting axial and rocking movements thereof, a gear segment on said rock shaft, a rack bar longitudinally and rockably supported on said mounting and engaging said gear segment to actuate the same rotatively by its longitudinal movement and axially by its rocking movement, a gear shifter selected by the axial movement of said rock shaft and actuated by the rotative movement thereof, an operating handle at a remote point and a flexible shaft connecting said operating handle and said rack bar.

1,947,236
ELECTRORESPONSIVE DEVICE
Ludwig S. Walle, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application April 12, 1933. Serial No. 665,711
6 Claims. (Cl. 200—109)

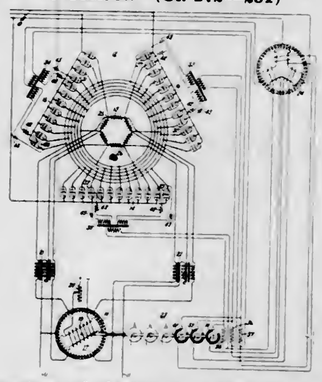


1. A directionally responsive electromagnetic device comprising an armature biased for movement in one direction, a cooperating magnetic structure including two polar projections for engaging and holding said armature, a permanent magnet cooperating with said magnetic structure to polarize said projections, a winding for energizing said magnetic structure and armature operative when energized by current in one direction to produce a flux in a direction to assist said permanent magnet in polarizing said projections whereby to maintain said armature in the attracted position and upon a reversal of current to oppose the polarizing action of said permanent magnet whereby to effect the release of said armature and a closed circuit winding on one of said polar projections.

1,947,237
PROCESS OF MANUFACTURE OF UNFERMENTABLE FRUIT JUICES
Silvere Cyril Vandecaveye, Pullman, Wash., assignor to State College of Washington, Pullman, Wash.
No Drawing. Substitute for application Serial No. 447,782, April 26, 1930. This application March 6, 1933. Serial No. 659,831
2 Claims. (Cl. 99—11)

1. The process which comprises treating saps and juices from edible fruits by means of generations of yeasts derived from the yeast naturally present in such fruits as follows: (1) keeping the saps and juices from edible fruits at any temperature favorable for yeast development, allowing such development to proceed until foam bubbles indicate carbon dioxide production and consequently the beginning of ethyl alcohol formation; (2) checking further development of the yeasts and precipitating them by heating the above mentioned saps and fruit juices at and above 45° C. for 30 to 40 minutes and then cooling them to 25° C. for the purpose of promoting a new generation of yeast by means of inoculation with fresh saps and fruit juices from edible fruits; (3) allowing the precipitates of the above treated saps and fruit juices to settle, and separating the clearer from the settled portion of these saps and fruit juices; (4) repeating inoculation, precipitation, and separation of the clearer from the precipitated portion of the saps and fruit juices as above described for the purpose of removing substantially all nitrogen and phosphorus therefrom.

1,947,238
SYSTEM OF ELECTRICAL DISTRIBUTION
Clodius H. Willis, Princeton, N. J., assignor to General Electric Company, a corporation of New York
Application May 28, 1932. Serial No. 614,177
3 Claims. (Cl. 172—281)



3. A system of electrical distribution comprising a polyphase alternating current supply circuit, a variable frequency single phase alternating current load circuit, an intermediate six phase alternating current circuit of the frequency of

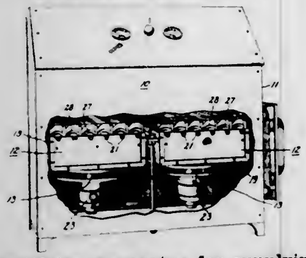
said single phase circuit, an electric valve converting apparatus for transmitting energy from said supply circuit to said intermediate circuit, a rotary phase converter interconnecting said six phase and single phase circuits, and a pair of reactance devices, each provided with three windings interposed in three adjacent phase connections to said rotary converter, said windings being so connected that, under balanced load conditions on said polyphase circuit, the resultant magnetization of said devices is substantially zero.

1,947,239
BUILDING CONSTRUCTION
Edgar G. Zack, Sheffield, Ill., assignor to Sheffield Shale Products Company, Sheffield, Ill., a corporation of Illinois
Application February 27, 1933. Serial No. 658,780
9 Claims. (Cl. 72—19)



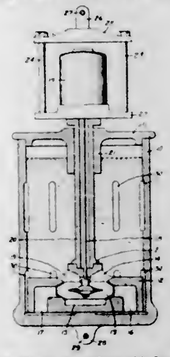
1. In a veneer construction for frame buildings having sheathing secured to the studding thereof, the combination of means including a planar surface spaced outwardly from the sheathing of said building, said surface having openings therethrough, a layer of mortar applied over said surface, and bricks keyed in said motor and having driven means for securing mechanical bonding engagement in said surface, said bonding engagement being effected by driving said bricks into position in said mortar, in a direction substantially normal to the surface of the wall.

1,947,240
RECTIFIER FOR MOTION PICTURE PROJECTORS
Ralph D. Amsden, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application October 12, 1932. Serial No. 637,459
4 Claims. (Cl. 175—366)



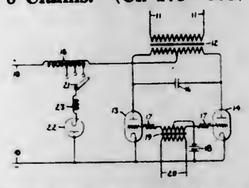
2. A rectifying apparatus for supplying direct current to high intensity arc projectors and the like comprising an apparatus casing, a plurality of rectifier units mounted therein, each of said units including a plurality of rectifier assemblies of the dry disc type mounted side by side closely adjacent in substantially the same plane, each of said assemblies including a plurality of active elements and heat radiating fins, a plurality of blowers each connected below a different one of said rectifier units to cause air to flow through said casing in contact with said units, and baffle means assocated with said units to cause the air blast from said blowers in passing through said rectifier units to flow only over said active elements and said fins.

1,947,241
ELECTROHYDRAULIC OPERATING MECHANISM
Joseph Bardin, Versailles, France, assignor to General Electric Company, a corporation of New York
Application October 8, 1932, Serial No. 636,876, and in France October 30, 1931
15 Claims. (Cl. 200—82)



13. In combination, a circuit breaker biased to open position, an electro-hydraulic operating mechanism therefor for closing said circuit breaker including a cylinder having fluid therein, a piston in said cylinder connected to said circuit breaker and movable between two positions, an electric motor-driven pump for transferring fluid from one side of said piston to the other side of said piston for creating a pressure in the fluid for moving said piston from one of said positions to the other position to close said circuit breaker, means for by-passing part of said fluid around said piston during movement thereof from said one position to said other position, said by-passing means being rendered ineffective by said piston at the instant said circuit breaker is closed, whereby the kinetic energy of said pump transmitted to said fluid is transformed to static pressure to instantaneously increase the thrust exerted by said piston on said circuit breaker.

1,947,242
ELECTRIC VALVE CONVERTING APPARATUS
Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 16, 1932
Serial No. 642,925
8 Claims. (Cl. 175—363)



1. Apparatus for transmitting energy from a direct-current supply circuit to an independent

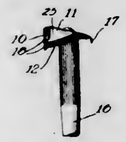
alternating-current load circuit subject to substantial load variations, comprising an inductive winding, a plurality of electric valves interconnecting said circuits through said winding, means for successively rendering said valves alternately conductive and nonconductive, means for commutating the current between said valves, impedance means interposed between said supply circuit and said apparatus, and means for independently loading said apparatus only during the commutating period under predetermined load conditions.

1,947,243
ELECTRIC LAMP
Fritz Born, Berlin-Tempelhof, Germany, assignor to General Electric Company, a corporation of New York
Application July 11, 1933, Serial No. 679,978, and in Germany July 28, 1932
3 Claims. (Cl. 176—34)



1. An electric lamp for vehicles comprising a bulb, a pair of light sources disposed in the longitudinal axis of said bulb, a concave reflector disposed below the forward light source, and an opaque screen on the upper front portion of said bulb adapted to intercept upwardly directed rays from said forward light source.

1,947,244
SAFETY RAZOR
Clifford C. Bradbury, Glencoe, Ill., assignor, by mesne assignments, of one-third to Louis J. Gordon, Chicago, Ill.
Application May 27, 1932. Serial No. 613,844
3 Claims. (Cl. 30—12)



1. A safety razor, comprising a wafer blade, a clamping plate, a guard plate, and means securing said plates together, said plates comprising a flat triangular portion extending along one cutting edge of the blade and having an apex on the other cutting edge of the blade and said plates comprising correspondingly curved portions on each side of said flat portion, whereby the last said cutting edge is curved.

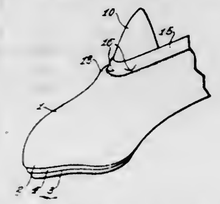
1,947,245
PROCESS AND APPARATUS FOR FORMING THE HEEL SEAT OF A SHOE
Arthur J. Brauer and Frederick P. Wagner, St. Louis, Mo.
Application December 15, 1930
Serial No. 502,343
20 Claims. (Cl. 12—31.5)

1. The process of forming the heel seat of a shoe having a turned-over upper, comprising, applying a localized heavy forming pressure and high heat to a narrow band on the outside margin of the upper where it turns over, to an extent and at a temperature sufficient to form and set



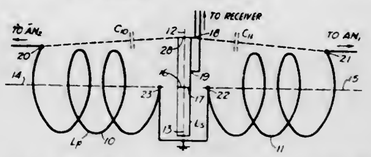
the upper along that narrow band for the reception of the margin of a heel.

1,947,246
PROCESS OF MAKING SHOES
Arthur J. Brauer and Frederick P. Wagner, St. Louis, Mo., assignors to Brauer Bros., Inc., St. Louis, Mo., a corporation of Missouri
Application May 20, 1932. Serial No. 612,426
5 Claims. (Cl. 12—142)



1. In the art of making shoes in which the lining extends beyond the throat during lasting, the process comprising, slitting the extended lining, alining the slit with an indicant on a last, and lasting the shoe while the alinement is maintained.

1,947,247
HIGH FREQUENCY TRANSMISSION SYSTEM
Edmond Bruce, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 5, 1929. Serial No. 390,440
4 Claims. (Cl. 250—11)



1. In a radio frequency system, a directive receiving antenna comprising a principal antenna and an auxiliary antenna each a half wave length long, said auxiliary antenna being a quarter wave length farther away than the principal antenna from a cooperating station, a three-winding transformer having substantially any given point in the turns of one winding positioned equidistant from and symmetrically with respect to the other two windings, said other two windings being similar in design and electrically connected to a common ground terminal and to the principal and auxiliary antennae, and a receiver associated with the first mentioned winding.

1,947,248

METHOD OF REGENERATING AND WASHING A ZEOLITE BED

Dana Burks, Jr., Urbana, Ill., assignor to Board of Trustees, University of Illinois, Urbana, Ill., a corporation of Illinois

No Drawing. Original application June 19, 1930, Serial No. 462,401. Divided and this application June 13, 1931. Serial No. 544,288
2 Claims. (Cl. 210—24)

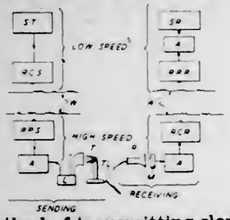
1. A water treating system operating in a cycle of three stages comprising an exchange stage wherein water is caused to flow through a zeolite bed to effect an exchange of the salts in the water for the salts in the bed, a regenerating stage wherein a brine solution is passed through the bed to regenerate the bed, and a washing stage wherein water is passed through the bed in the same direction as during the exchange stage but at a faster rate, the regenerating brine comprising approximately the last two thirds of the effluent of a previous regenerating stage and the first part of the effluent of a previous washing stage, said parts being mixed together and concentrated by the addition of regenerating salt, the shift from the washing stage to a following exchange stage being effected by reducing the rate of flow of water through the zeolite bed.

1,947,249

TELEPHONIC TELEGRAPHY

Vannevar Bush, Belmont, Mass.

Application January 10, 1930. Serial No. 419,872
8 Claims. (Cl. 179—4)



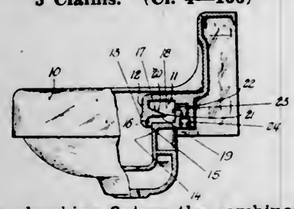
1. The method of transmitting slow speed electric impulses which comprises the conversion of said electric impulses into high speed aerial sound waves of like characteristics, the transmission of said converted impulses by suitable electric transmission means, and the reconversion of the latter impulses into electric impulses which are substantially like the original impulses.

1,947,250

PLUMBING FIXTURE

Samuel W. Davison and Morgan J. Thompson, Milwaukee, Wis.

Application May 23, 1932. Serial No. 612,964
5 Claims. (Cl. 4—166)



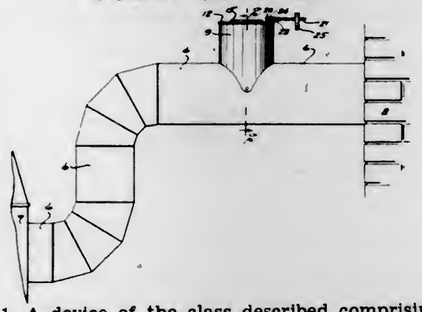
1. In a plumbing fixture the combination of a receptacle having an upright wall, and means for supplying water to said receptacle comprising a horizontally extended chamber, a baffle projecting from one wall of said chamber and extending lengthwise thereof to divide the same into upper and lower communicating compartments, means for discharging water into said upper compartment through the opposite wall of said chamber, said lower compartment being open to said receptacle, and a horizontal lip extending lengthwise of said lower compartment and spaced from said wall to deflect the water discharged from said lower compartment and to direct the same in a flat, wide stream against said wall.

1,947,251

AUTOMATIC DRAFT STABILIZER

Otto W. Dressler, Minneapolis, Minn.

Application September 22, 1932
Serial No. 634,275
2 Claims. (Cl. 236—45)



1. A device of the class described comprising a pipe section having a substantially radial pipe extension, said pipe section being applicable to a flue or other connection for turning movement about its axis to position the pipe extension at different points in a circle substantially concentric with the pipe section, a cap applied to the pipe extension and having an air passage, and a damper plate for the air passage having a radially projecting weight-equipped arm, said arm being intermediately hinged to the cap and positively holding the damper plate except for opening and closing movements, said weight-equipped arm being under strain to close the damper plate and said damper plate being arranged to open by suction produced in the pipe extension, said cap being mounted on the pipe extension for turning movement substantially about its axis, whereby when the pipe extension is not in a vertical position the center of gravity of the damper plate and its arm may be changed, at will, by turning the cap on the pipe extension.

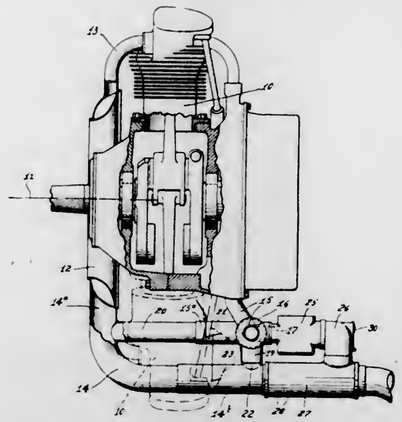
1,947,252

INTERNAL COMBUSTION ENGINE

Ralph N. Du Bois, Detroit, Mich., assignor, by mesne assignments, to Continental Aircraft Engine Company, a corporation of Delaware

Application November 15, 1929
Serial No. 407,322
8 Claims. (Cl. 123—55)

1. In a manifold assembly for an air cooled internal combustion engine having a crankshaft and a plurality of cylinder structures having intake and exhaust ports and whose axes extend radially with respect to the crank shaft axis and comprising, an intake manifold provided with a gas intake port, an exhaust collector ring connected with the cylinder exhaust port, means for conducting the exhaust gases in proximity to said intake manifold, a carburetor positioned substantially equidistant from the crankshaft axis as the inlet port of said intake manifold, the component parts of said manifold assembly compactly assembled and confined within the limits



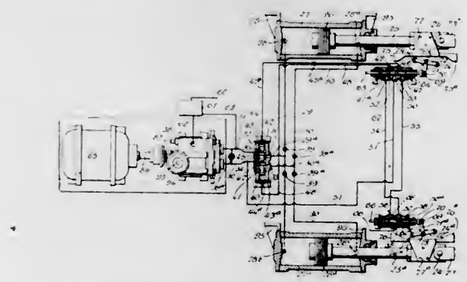
as defined by the outer extremities of the cylinder structures to minimize air resistance.

1,947,253

RECIPROCATING DRIVE MECHANISM

Arthur L. Ellis, Deep River, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut

Application June 29, 1932. Serial No. 619,884
9 Claims. (Cl. 60—52)



9. A reciprocating drive mechanism comprising a pair of cylinders, a piston in each of said cylinders, said pistons being coincidentally movable in the same direction by an applied pressure medium, a hydraulic pump connected with the opposite ends of said cylinders for developing a flow of said pressure medium, means for regulating the flow of said pressure medium to said cylinders whereby the sequence of operation of said pistons is predetermined, a single pressure actuatable reversing valve in said connections, interconnected devices connected with said pump and with said single reversing valve, and means controlled by said pistons for operating said interconnected devices in predetermined sequence corresponding to the operative sequence of said pistons to direct pressure medium to and from said single reversing valve whereby the latter is pressure actuated to direct the flow of pressure medium to opposite ends of both of said cylinders for reversing the direction of movements of the pistons therein.

1,947,254

METHOD OF MAKING A FINGER RING

Tony E. Foster, Indianapolis, Ind., assignor to Herff Jones Company, Indianapolis, Ind., a corporation

Application December 1, 1932
Serial No. 645,199
4 Claims. (Cl. 29—160.6)



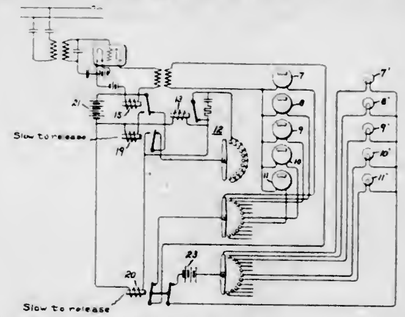
1. A method of making a finger ring consisting in forming a flat blank of precious metal with a recess in one side thereof, securing a filler within said recess having a thickened central portion provided with a curved recess therein, stamping said combined blank and filler to reverse the formation thereof whereby the thickened portion with the central recess will be extended to the other side of the filler with the precious metal covering the surface thereof, and thereafter bending the ends of the blank to provide a finger band, causing the recessed portion to be straightened out to provide a substantially flat surface.

1,947,255

TELEMETRIC SYSTEM

Charles S. Franklin, Hollywood, Calif., assignor to General Electric Company, a corporation of New York

Application October 5, 1929. Serial No. 397,613
7 Claims. (Cl. 177—351)



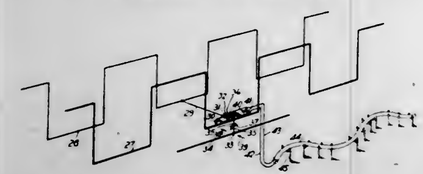
7. The combination, in a telemetric system wherein carrier current impulses are transmitted through a telemetric channel, each impulse being modulated with current having a frequency determined in accordance with the position of an element to be remotely indicated, of a carrier current detector, a plurality of frequency responsive indicating devices, step-by-step switching means for successively connecting said indicating devices to said detector during the time interval between said impulses, means energized upon initiation of said impulses and responsive to a time interval greater than that between said impulses, an additional time responsive means, a stepping magnet for said switch, and means responsive to the termination of an impulse for energizing said stepping magnet and said additional time responsive means, said additional time responsive means operating to deenergize said magnet after a predetermined time interval and before initiation of a succeeding impulse, said first means in cooperation with said additional time responsive means operating to restore said switch to its original position in response to a time interval in excess of that between said impulses.

1,947,256

ANTENNA COUNTERPOISE SYSTEM

Harald T. Friis, Rumson, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 11, 1930. Serial No. 420,082
9 Claims. (Cl. 250—33)



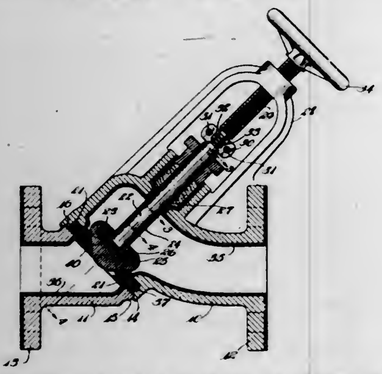
1. In combination, a directional antenna designed for a particular operating wave length, a counterpoise connected thereto and comprising a conductor, a half wave length long, or an odd multiple thereof, the counterpoise being positioned in a plane perpendicular to the known direction of an incoming undesired wave traversing said counterpoise and having a wave length equal, substantially, to the operating wave length.

1,947,257

VALVE STRUCTURE

Howard E. Fritz, Barberton, and John R. Hoover, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application April 25, 1933. Serial No. 667,798
2 Claims. (Cl. 251—156)



2. A rubber lined valve body provided with a valve seat, a rubber covered valve stem extending through a wall of the body, and a soft rubber plug member movable as a unit with the valve stem and resiliently and removably retained thereby for cooperation with the seat to close the valve.

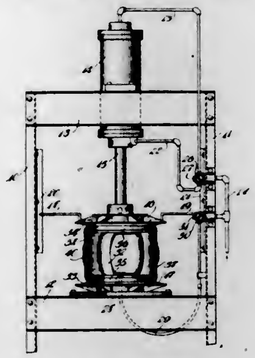
1,947,258

METHOD AND APPARATUS FOR FORMING TIRES

Vincent B. Gay, Clinton, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application May 3, 1932. Serial No. 608,915
4 Claims. (Cl. 154—9)

1. Apparatus for forming tires, said apparatus comprising a pair of forming plates adapted to confine the bead portions of a tire without clamping the same, means for positively moving them toward each other, an elastic forming bag located between said plates and confined only by said



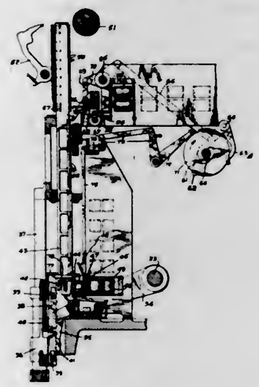
plates and the tire, and means for inflating the bag.

1,947,259

PRINTING MECHANISM FOR TABULATORS

Alvin E. Gray, Binghamton, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application April 23, 1932. Serial No. 607,145
12 Claims. (Cl. 101—93)



1. In an accounting machine comprising in combination, a movable printing bar carrying a plurality of type, means for moving said bar, card analyzing means, means controlled by said analyzing means in response to the analysis of a perforation in an index point position for causing said bar to move with said moving means and further means for subsequently causing relative movement between said bar and said moving means.

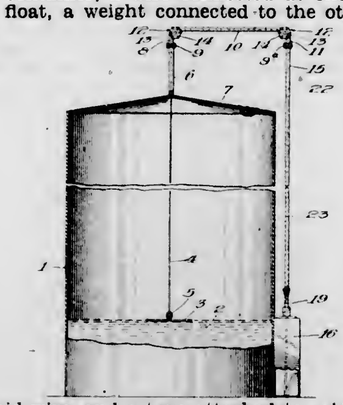
1,947,260

TANK GAUGE

Ray E. Hall and Clide W. Hall, Webster City, Iowa, assignors to Hall Brothers Company, Webster City, Iowa, a firm composed of Ray E. Hall, Forest F. Hall, Clide W. Hall, and Rube McFerren

Application December 2, 1929. Serial No. 410,978
10 Claims. (Cl. 73—82)

1. A gauge for measuring the depth of fluid in a storage container, comprising a float in said container, a wire connected at one end to said float, a weight connected to the other end



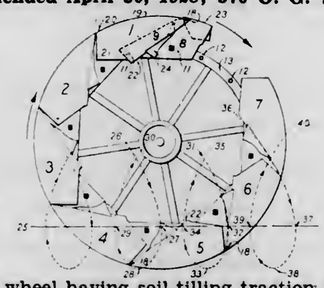
of said wire, and a tape attached to said weight for indicating the depth of said fluid.

1,947,261

WHEEL

Charles P. Hartley, Washington, D. C., dedicated to the free use of the Public

Application July 14, 1933. Serial No. 680,384
3 Claims. (Cl. 97—212)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A wheel having soil tilling traction improving members comprising segmental flat plates adapted to be detachably secured to the rim of said driving wheel with their width disposed radially and with their outer edges extending radially outward; means for securing the segmental plates to said driving wheel rim; pointed, acutely tapering, approximately semi-conoidal soil-penetrating members having a length comparable to the radius of said driving wheel, each secured, along one of its longitudinal edges, to the outer edge of a segmental plate, on the outer side of the same, with the concave surface of the semi-conoidal soil penetrating member facing radially outward, with its unattached outer edge of greater length than the attached inner edge and disposed radially to form a helical edge coaxial with and of greater diameter than the driving wheel, with the pointed end of the soil penetrating member disposed substantially in the plane of the driving wheel rim and pointing in the direction of normal forward rotation of said driving wheel and adapted to be forced, by the tractive action of said driving wheel, pointed end first into arable soils traversed by said driving wheel and to displace portions of the soil by an oblique wedging action, sidewardly, upwardly and rearwardly so as to loosen and stir the soil displaced and cause the broader, concave, overarching surfaces of the soil penetrating members to be carried below the surface of the soil to such a depth that the portions of the soil compressed under these surfaces by the weight of the implement upon which the said driving wheel is mounted, will be below the surface of the surrounding soil and will be covered by the loosened soil falling back upon them as the soil penetrating members are lifted from the ground by the further rotation of the driving wheel; and flat, approximately triangular members disposed obliquely between the segmental plates and the soil penetrating members and suitably secured to each of the same, by such means and in such a manner as to form a strut adapted to stiffen and reinforce the soil penetrating member against distortion and to increase its capacity to support weight upon its outer, helical edge.

1,947,262

SETTING TOOL

James H. Howard, Houston, Tex., assignor to J. H. McEvoy & Company, a corporation

Application March 24, 1933. Serial No. 662,560
10 Claims. (Cl. 166—10)



1. In combination with a tubular member to be set in a well, and having an interior threaded seat adjacent the upper end of said member, a setting tool comprising a tubing, a mandrel, a coupling connecting said tubing to said mandrel, a retaining sleeve non-rotatably mounted on said mandrel and threaded within said seat, and thrust means on said mandrel engaging the upper end of said member.

1,947,263

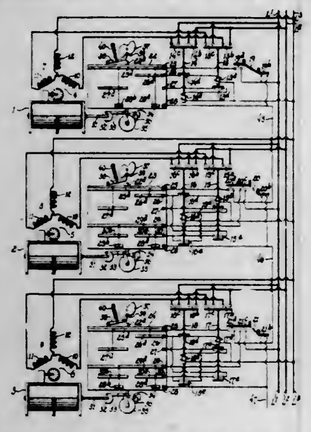
MOTOR CONTROLLER

Richard B. Hunter, Shorewood, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application August 31, 1931. Serial No. 560,290
5 Claims. (Cl. 172—240)

1. In a controller for a plurality of electric motors to be supplied with energy from a common source, in combination, a plurality of reversing means, one for each motor, each of said reversing means including a pair of electromagnetically operable switches, a control drum comprising stationary and movable contact elements, said drum being operable unidirectionally by its respective motor to insure energization of said switches in sequence with respect to each other, and a push button switch having normally open and normally closed contacts, said normally open contacts when closed being adapted to render said drum effective to complete the energizing circuit of one or the

other of said switches to initiate operation of its respective motor, the control drums associated with certain of said motors and the push button switches associated with other of said motors hav-



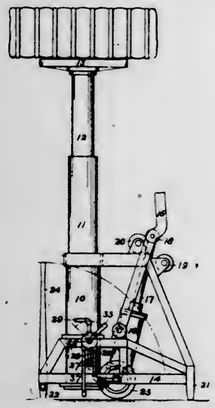
ing additional contacts cooperatively related to each other to provide for starting and subsequent reversal of operation of all of the active motors at equally timed intervals relatively to each other.

1,947,264

SELF LOADING, PORTABLE ELEVATOR

John M. Johnson and Henry L. Sinclair, Houston, Tex., assignor to Houston Compress Company, Houston, Tex.

Application December 12, 1932
Serial No. 646,834
1 Claim. (Cl. 214—95)



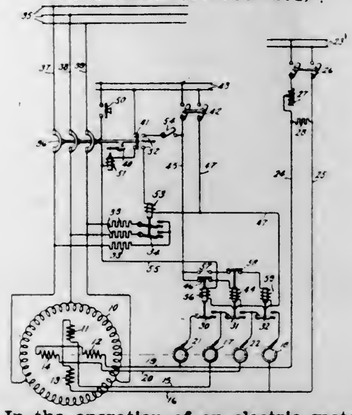
In a self loading elevator the combination of a main frame, a vertically disposed cylinder supported thereon, a co-acting plunger, one end of which projects outwardly above the cylinder, and a platform secured to the projecting end of the plunger; a loading frame hinged near one end to the main frame, an oscillating cylinder also hinged to the main frame at a point below the hinge point of the loading frame, and a co-acting plunger hinged to said loading frame near the free end thereof, said oscillating cylinder and co-acting plunger thereby forming means to lift the free end of the loading frame for the purpose specified.

1,947,265

SYSTEM OF MOTOR CONTROL

Charles E. Kilbourne, Schenectady, N. Y., and Theodore Dreier, Winter Park, Fla., assignors to General Electric Company, a corporation of New York

Application August 6, 1932. Serial No. 627,780
15 Claims. (Cl. 172—274)



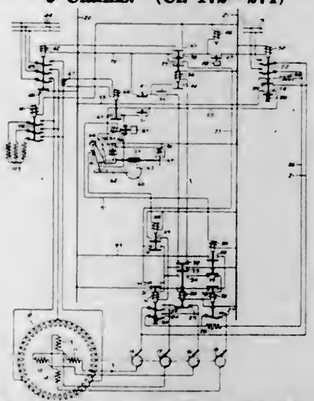
1. In the operation of an electric motor provided with a group of north pole field windings and a group of south pole field windings, the method of changing the connections of said field windings to give increased motor excitation while maintaining normal field excitation during such change which consists in applying double excitation to one of said groups of windings and then disconnecting the other group and connecting it in parallel with the first group for double excitation.

1,947,266

SYSTEM OF MOTOR CONTROL

Charles E. Kilbourne, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 6, 1932. Serial No. 627,781
9 Claims. (Cl. 172—274)



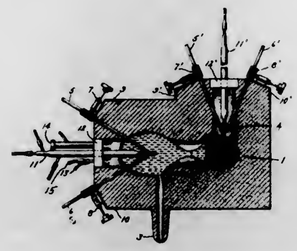
1. The combination with a motor provided with at least two field windings, a normally closed series switch between said field windings, parallel switches for establishing parallel circuits around said series switch and the respective field windings, a current limiting device in one of said parallel circuits, and means responsive to the load on the motor for effecting the operation of said switches in a predetermined sequence.

1,947,267

HEATING PROCESS AND APPARATUS

Irving Langmuir, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 30, 1924. Serial No. 729,185
11 Claims. (Cl. 219—14)



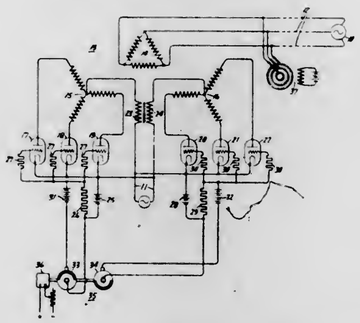
8. The method of usefully conveying high temperature heat to a body which consists in supplying heat to molecular hydrogen by an electric arc, passing the hydrogen directly from the arc to said body and maintaining the arc at such voltage and current as to cause substantial quantities of atomic hydrogen to be formed from the molecular hydrogen and to pass to such a point that energy is liberated by the recombination of substantial quantities of atomic hydrogen in the neighborhood of said body and usefully heats said body.

1,947,268

ELECTRICAL DISTRIBUTION

Hans Laub, Berlin-Wilmersdorf, Germany, assignor to General Electric Company, a corporation of New York

Application May 28, 1932, Serial No. 614,207, and in Germany June 13, 1931
3 Claims. (Cl. 172—281)



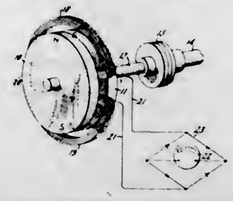
3. A system of electrical distribution comprising a polyphase alternating current circuit, a single phase alternating current circuit, electric valve frequency changing apparatus for transmitting energy between said circuits, and a synchronous condenser connected to said polyphase circuit immediately adjacent said frequency changing apparatus for absorbing and releasing instantaneous differences between the average power transmitted by said converting apparatus and the pulsating power of said single phase system.

1,947,269

MAGNETO-ELECTRIC MACHINE

Joseph K. Leibing, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application December 29, 1932
Serial No. 649,345
18 Claims. (Cl. 171—252)



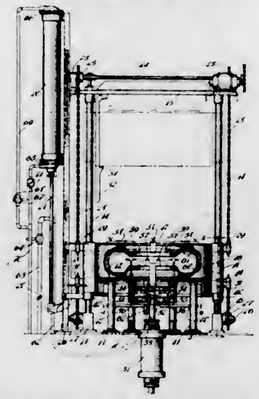
2. A magneto-electric machine comprising a rotatable permanent disc magnet magnetized along its diameter to have at least two arc-shaped magnetic poles of opposite polarities around its periphery, a rotatable magnetic element separated from said magnet by an air gap and arranged to form a return path for the magnetic flux of the magnet, and a stationary armature winding in said air gap so arranged that rotation of said permanent magnet and magnetic element causes it to be threaded by a magnetic flux of varying intensity from the permanent magnet.

1,947,270

APPARATUS FOR INSERTING CURING BAGS IN TIRES

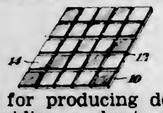
Charles W. Leguillon, Akron, and William H. Slabaugh, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application December 29, 1932
Serial No. 649,244
9 Claims. (Cl. 18—2)



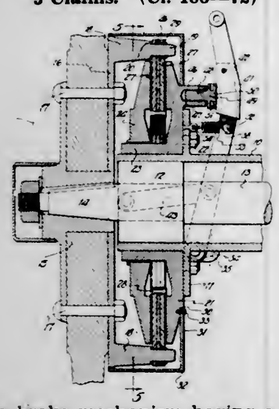
9. Apparatus for inserting curing bags in tires, said apparatus comprising an annular box adapted to enclose the outer wall of a tire and having a movable sidewall, means carried by opposite walls of the box for sealing the sidewall of a tire thereto, means for holding the beads of the tire in widely spaced relation with the side walls of the tire engaging said sealing means, means for evacuating the box to circumferentially stretch the tire as the bag is inserted therein, and means for moving said movable side wall to reduce the spacing of the beads as the tire is circumferentially stretched.

1,947,271
PROCESS FOR PRODUCING DECORATIVE MATERIAL
Royal Mattison, Ambler, Pa., assignor to Ambler Asbestos Shingle & Sheathing Company, Ambler, Pa., a corporation of Pennsylvania
Application May 9, 1932. Serial No. 610,277
3 Claims. (Cl. 41—29)



3. A process for producing decorative effects comprising providing a sheet of asbestos-Portland cement material waterproofed by an impregnating oil, forming grooves in said sheet to simulate decorative lines, filling said grooves with a plastic material not penetrating the sheet material and permitting said material to set in place in said grooves, coating the surface of said sheet and material, finishing the surface of said coating, and then removing said material from said grooves to restore said decorative lines.

1,947,272
VEHICLE BRAKE
Gene Napolitan, Brooklyn, N. Y.
Application September 9, 1932. Serial No. 632,324
5 Claims. (Cl. 188—72)



1. In a brake mechanism having a stationary plate, a movable plate, and a friction plate interposed between said stationary plate and said movable plate, lever actuated means for moving said movable plate in a direction toward said stationary plate, said lever actuating means including a pivoted yoke lever, an actuating lever pivoted to said yoke lever, a stop extending from said stationary plate, and spring means acting upon said yoke lever to normally cause the same and one end of said actuating lever to abut said stop whereby the abutting end of said actuating lever may fulcrum against said stop upon the exertion of a pull upon the opposite end of said actuating lever to move said yoke lever to operating position against the action of said spring means.

1,947,273
CALF WEANER
Chris O. Myhre, Spring Grove, Minn.
Application December 5, 1931, Serial No. 579,270
Renewed July 26, 1933
1 Claim. (Cl. 119—130)

A calf weaner comprising an arcuate plate for attachment across the nose of a calf and having openings therein, a second plate pivotally mounted on the first plate, pointed pins on the second plate arranged to pass through said openings when said second plate is pressed against a cow, resilient means on the pivot of the second plate

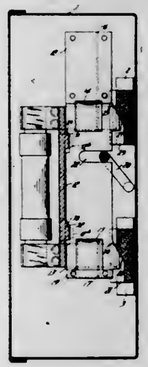


for normally urging the pins out of contact with the calf, and flexible members connecting the second plate with the arcuate plate for limiting the movement of the former plate under the influence of said resilient means.

1,947,274
PERMANENT MAGNET AND METHOD OF MAKING IT
William E. Ruder, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application February 1, 1933
Serial No. 654,764
6 Claims. (Cl. 175—21)

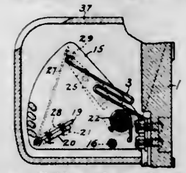
1. An age hardened magnet consisting substantially of about 6% to 15% aluminum, about 20% to 30% nickel with the remainder iron.

1,947,275
ELECTRIC SWITCH
Joseph Sachs, West Hartford, Conn.
Application May 20, 1931. Serial No. 538,688
13 Claims. (Cl. 200—164)



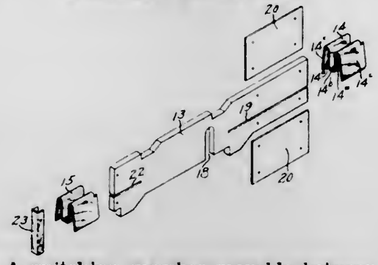
1. The combination in an electric switch, of a stationary switch contact, a movable switching member having a contact, an operating member for moving the switching member along a predetermined rectilinear path to bring the movable contact into at least approximate engagement with the stationary contact, and means serving upon continued movement of the operating member to move the switching member in a direction at an angle to the said path to bring the movable contact into firm and final engagement with the stationary contact.

1,947,276
ELECTRIC CIRCUIT CONTROLLING APPLIANCE
Joseph Sachs, West Hartford, Conn.
Application September 16, 1931
Serial No. 563,149
19 Claims. (Cl. 200—144)



1. In a device of the class described, the combination of a stationary contact, a contact movable in a fixed path to engage or disengage the stationary contact and thereby close or open the circuit, and an insulated conducting element movable in fixed relationship with the movable contact and spaced therefrom by a distance less than the extent of movement, the said conducting element upon movement in the circuit-opening direction traveling beyond the stationary contact in a path closely adjacent thereto.

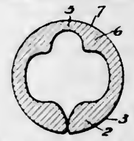
1,947,277
SWITCHING MEMBER FOR ELECTRIC SWITCHES
Joseph Sachs, West Hartford, Conn.
Original application May 20, 1931, Serial No. 538,688. Divided and this application October 28, 1932. Serial No. 640,065
6 Claims. (Cl. 200—166)



1. A switching member movable between opposite spaced stationary switch contacts and comprising in combination, a metallic contact element provided with oppositely facing contact faces and having substantially parallel spaced portions with a transverse connecting portion between them, a unitary flat insulating plate having a thickness approximating the spacing between the parallel portions of the contact, the said plate being provided with an opening extending entirely therethrough and of such size and shape as to permit the previously formed contact element to be put in place with the connecting portion thereof extending through the opening and with the parallel portions thereof located at opposite sides of the insulating plate and means connected with the plate adjacent the said opening for holding the contact element in place.

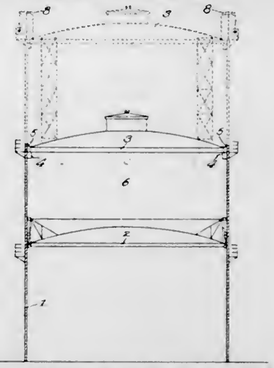
1,947,278
CONNECTING ROD
Frederic Schaefer, Pittsburgh, Pa.
Application April 24, 1930. Serial No. 446,841
5 Claims. (Cl. 74—17)

5. A connecting rod comprising a tubular body having an oblong cross section rounded at the ends of its major axis and provided with bifurcated channel-shaped connecting ends and a smooth exterior surface, a pair of stiffening ribs arranged adjacent the edges of a split running throughout the length of said body in the mid-



section of one of said rounded sides, and a second pair of stiffening ribs arranged in relatively close relationship on the interior of the opposite rounded side.

1,947,279
METHOD OF INCREASING THE HEIGHT OF A GAS HOLDER WHILE IN SERVICE
Friedrich Schürmann, Dortmund, Germany, assignor to The Stacey Bros. Gas Construction Company, Cincinnati, Ohio, a corporation of Ohio
Application May 26, 1931, Serial No. 540,187, and in Germany May 30, 1930
1 Claim. (Cl. 48—176)

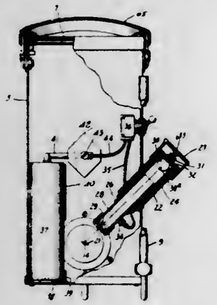


The method of increasing the height of a waterless gas holder while in service, the holder of a type consisting of a cylindrical shell having a movable closure piston therein and a roof at the top of the shell consisting in sealing the roof to the shell below the top edge thereof and venting the upper portion of the shell below the roof by holes, adding plates to the top of the shell for increasing its height using the roof as a working platform, and after completion of the increased height of the shell closing the said vent holes in the shell, before elevating the roof, bodily elevating the roof for the addition of the shell and securing the same as its new position at the top of the shell.

1,947,280
PORTABLE VIBRATION INDICATOR
Ernest L. Thearle, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 20, 1930. Serial No. 462,649
6 Claims. (Cl. 73—51)

1. A portable vibration indicator comprising a thin walled casing, a relatively massive weight secured to the lower end of a casing wall to hold the casing stationary on a fixed support, a needle extending parallel to the base of the casing and mounted within the weight for longitudinal vibration when brought into direct contact with the body being examined, a guide for the outer end

of the needle, a mirror pivotally mounted on the weight for oscillatory movements with one degree of freedom, means located within the weight for converting the longitudinal movements of the needle into oscillatory movements of the mirror,



a scale plate mounted on the casing above the mirror upon which a beam of light is projected by the mirror, a lamp supported by the casing at a point above the mirror, and a lens, said mirror and lens focusing an image of the lamp filament on the scale plate.

1,947,281
TRANSFORMER
Elmer J. Temple, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 6, 1932. Serial No. 621,043
5 Claims. (Cl. 171—119)



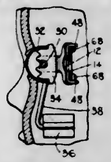
1. An auto transformer including three magnetic core winding legs, a winding on each of said legs, one end of each of said windings being connected to a common neutral, a low voltage terminal connected to an intermediate point of each of said windings, a second winding on each of said legs, and means for connecting each winding of said second set of windings in series with either of two windings of said first set, said means being arranged to connect one end of each winding of the second set to the winding of the first set on the same core leg with their voltages accumulative or to connect the other end of each winding of the second set to a winding of the first set on another core leg, each winding of one of said sets having taps for reducing the number of effective turns therein when connected in series with a winding of the other set on the same core leg.

1,947,282
MANIPULATING DEVICE
Amos H. Theis, Lawrenceburg, Ind.
Application December 24, 1932
Serial No. 648,821
7 Claims. (Cl. 292—347)



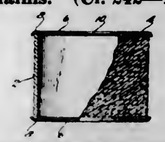
7. In a device of the class described, a knob, an axial mounting for said knob adapting the knob to be moved longitudinally on said mounting, spring means on the mounting urging said knob axially in one direction, a latch member adapted to secure said knob against said urging means, and release means between the latch member and knob fully effective by moving said knob axially and non-rotatively on its mounting against the urging means slightly beyond the latched position.

1,947,283
EYE SET FOR DOLLS
John H. Wilhelm, Hamilton Beach, N. Y., assignor to Margon Corporation, New York, N. Y., a corporation of New York
Application March 2, 1932. Serial No. 596,190
14 Claims. (Cl. 46—40)



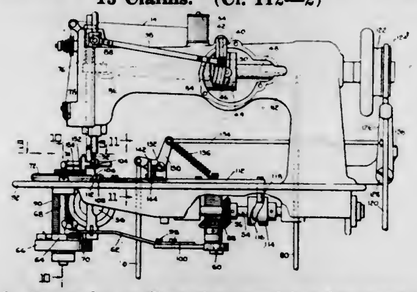
1. A bridge for supporting a doll's eye set, said bridge comprising an elongated member having means for attaching said member within a doll's head, and a resilient saddle mounted on said member between said member and the front wall of a doll's head, said saddle being formed from spring metal appropriately bent and shaped to form forwardly extending means for receiving and supporting the eye set, and additional rearwardly extending means freely compassing the member, the spring material of the saddle providing yieldability of the eye set toward the member, and said saddle and compassing means being slidable as a unit along said member.

1,947,284
THREAD PACKAGE
George K. Anderson, Fall River, Mass., assignor to The American Thread Company, Jersey City, N. J., a corporation of New Jersey
Application May 25, 1931. Serial No. 539,796
2 Claims. (Cl. 242—119)



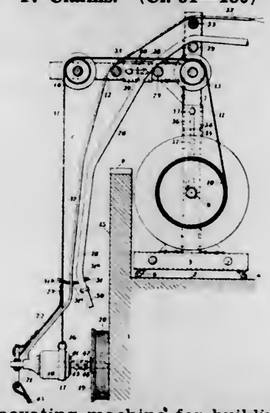
1. A spool of the class described comprising a tubular core of paper and disks of paper secured to the ends of the core, the core being of a thickness substantially greater than that of the disks and each disk having a counter-sunk portion set into the end of the core and a reinforcing concave rim portion fitted over and glued to the end of the core, with the inwardly directed edges of the concave rim portions extending slightly beyond the periphery of the core to provide a thread retaining flange.

1,947,285
APPARATUS FOR MANUFACTURE OF POWDER PUFFS
Roger Bihler, College Point, N. Y., assignor to Michael A. Belkoff, College Point, N. Y., and Allen A. Slade, Rye, N. Y.
Application June 23, 1930. Serial No. 463,007
13 Claims. (Cl. 112—2)



1. A powder puff sewing machine for machine stitching the opening left in the puff after turning the same, comprising stitching mechanism, means to transversely reciprocate said mechanism at alternate stitches so that one stitch will be taken through the material of the puff at the opening therein and the next stitch externally of the puff, and means to push the edges of the plies of the material at the puff opening inwardly during the stitching operation, in simulation of a turned seam.

1,947,286
RENOVATING MACHINE FOR BUILDING FACADES
Mortimer Bitterbaum, New York, N. Y.
Application May 20, 1931. Serial No. 538,767
17 Claims. (Cl. 51—180)



5. A renovating machine for building facades having the combination of cable hoisting mechanism for location upon the roof of a building, means to convey the cable from said mechanism to the facade of the building including pulleys, means to adjust the elevation of said pulleys, a motor suspended by said cable, and a renovating device operated by said motor.

1,947,287
SOUND ABSORBING SYSTEM
Philip G. Caldwell, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 7, 1933. Serial No. 674,660
5 Claims. (Cl. 181—30)



1. In an enclosure having a wall adapted to reflect a sound wave projected thereagainst, a sheet of sound absorbing material spaced from said wall a distance substantially one quarter the wave length of said projected sound wave.

1,947,288
SHOE AND METHOD OF MAKING SAME
Claude H. Daniels, Wellesley Hills, Mass.
Application May 27, 1933. Serial No. 673,280
16 Claims. (Cl. 12—142)



1. A boot or shoe, including a sole, an upturned marginal flange on said sole provided with spaced apertures adjacent to its outer edge, upper materials provided with spaced pairs of slits or slots, each pair of said slits or slots being in register with one of said apertures, and a lacing uniting said upper materials and said flange.

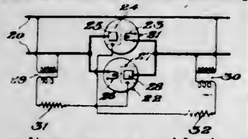
7. The improved method of manufacturing soles for use in boots or shoes, which includes the steps of channelling a sole to provide a marginal flange completely therearound, providing said flange with a plurality of spaced apertures intermediate its edges, providing said flange with slits or slots intermediate said apertures and the inner marginal edge of said flange, bending said flange upwardly from said sole, and removing a portion of the margin remaining on said sole.

8. The improved method of manufacturing boots or shoes, which includes the steps of supplying a sole having a marginal flange completely therearound, said flange having a plurality of spaced apertures intermediate its edges, said flange being bent upwardly from said sole, providing upper materials with spaced pairs of slits or slots adjacent to their lower marginal edge, assembling said upper materials and flange, with said spaced pairs of slits or slots in register with the apertures in aid flange, and uniting the same by a lacing extending through said apertures and said pairs of slots.

1,947,289
POWER DIRECTIONAL SYSTEM
Earl R. Evans, Washington, D. C.
Application February 15, 1930. Serial No. 428,819
6 Claims. (Cl. 175—294)

1. An alternating-current electric system comprising a distribution circuit, an arc-discharge device embodying a cathode, an anode and a control electrode, the cathode-anode circuit of

said device being connected directly in series in said circuit, and means for applying to said control electrode an alternating potential which has at all times a substantially constant phase rela-



tion to the voltage across said circuit whereby the impedance of said arc-discharge device depends upon the direction of the flow of energy in said circuit.

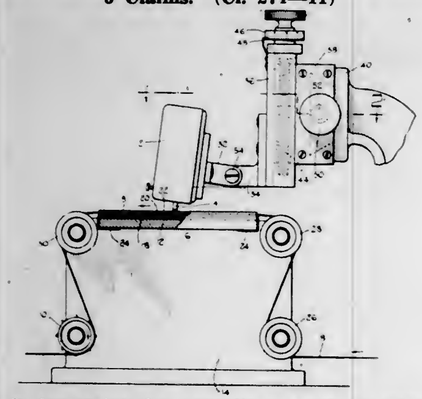
1,947,290

SOUND RECORDING ON MOTION PICTURE FILM

Jay Charles Fonda, Sheepshead Bay, N. Y., assignor of one-half to Fred T. Roberts, New York, N. Y.

Application October 27, 1930. Serial No. 491,436

3 Claims. (Cl. 274—11)



3. Apparatus for recording sound on motion picture film comprising a stationary yieldable bed made of soft and resilient material, a recorder unit provided with a sharply pointed stylus, and means to move the film between the bed and stylus.

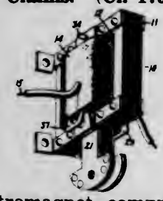
1,947,291

ELECTROMAGNET

John B. Ford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 21, 1933. Serial No. 681,505

6 Claims. (Cl. 175—341)



1. An electromagnet comprising a magnetic frame, an operating coil provided with an opening through its center, means for securing said coil to said frame comprising a guide extending through said coil opening and provided with a resilient end, and means for securing said guide to said frame after said resilient end has been forced against said coil a predetermined amount.

1,947,292

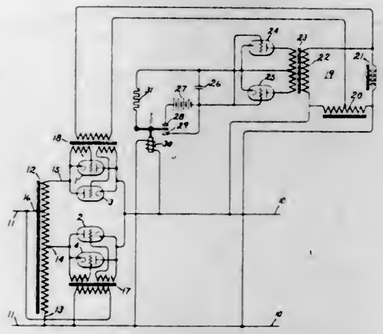
ELECTRICAL REGULATING APPARATUS

George W. Garman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application April 27, 1931, Serial No. 533,157

Renewed February 8, 1933

5 Claims. (Cl. 171—119)



1. In a system of regulation including a regulated circuit and an electric valve provided with a control grid, means for exciting said control grid with a potential variable in phase in response to variations in an electrical condition of said regulated circuit comprising an impedance phase shifting circuit, means including an electric valve provided with a control grid for varying the impedance of an element of said phase shifting circuit, an energy storage element connected to determine the potential of said last mentioned control grid and means including an electromagnetic device responsive to an electrical condition of the regulated circuit for controlling the storing and dissipating of energy of said energy storage element.

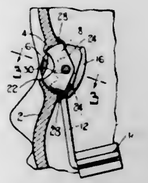
1,947,293

EYE SET AND RUBBER DOLL'S HEAD UTILIZING THE SAME

Leo J. Grubman, Belle Harbor, N. Y., assignor to Margon Corporation, New York, N. Y., a corporation of New York

Application April 16, 1932. Serial No. 605,671

19 Claims. (Cl. 46—40)



1. In combination, a doll's head having eye openings, an eye set comprising a cross rod, oscillatable eye shells mounted thereon, and additional eye socket members also mounted on said cross rod and surrounding said eye shells and providing clearance for free oscillation of the eye shells, and means for so mounting the cross rod of the eye set in the head as to maintain the eye socket members in tight frictional engagement with the eye openings in the doll's head.

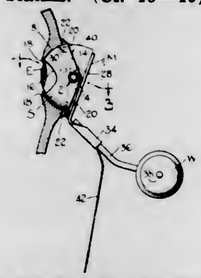
1,947,294

MOVABLE EYE SET FOR DOLLS

Leo J. Grubman, Belle Harbor, N. Y., assignor to Margon Corporation, New York, N. Y., a corporation of New York

Application April 16, 1932. Serial No. 605,673

23 Claims. (Cl. 46—40)



1. An eye set adapted to be subsequently inserted and mounted in a doll head, said eye set comprising a cross member, a pair of eye shells loosely mounted thereon, a pair of eye socket members surrounding said eye shells and also mounted on said cross member, a gravity weight for operating said eye shells, and means loosely mounted on said cross member and connected to said weight for engaging and causing oscillation of the eye shells.

1,947,295

STARCH PASTE

Stephen Józsa, New York, and Herbert C. Gore, Scarsdale, N. Y., assignors to Standard Brands Incorporated, Dover, Del., a corporation of Delaware

No Drawing. Application January 11, 1930

Serial No. 420,286

9 Claims. (Cl. 127—32)

1. A method of preparing a starch paste having high stability and low viscosity, which comprises cooking starch in water to gelatinize the same, and thereafter subjecting the hot starch paste to the action of a high speed mixer until its viscosity has been lowered to an extent such that the outflow time of a 5% cold solution thereof from a standard 100 cc. pipette is approximately 200 seconds or lower.

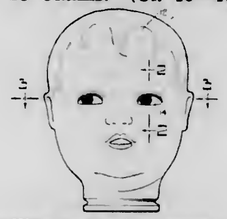
1,947,296

ROLLING EYE SET FOR DOLLS

Alexander Konoff, New York, N. Y., assignor, by mesne assignments, to Margon Corporation, New York, N. Y., a corporation of New York

Application February 27, 1931. Serial No. 518,621

13 Claims. (Cl. 46—40)



1. In a rolling eye set, a cross support comprising a central horizontal bearing, end vertical bearings for the eyes, means interconnecting the end and central bearing located rearwardly of the same to permit swiveling of the eyes, and additional means rigidly joining the rearwardly set interconnecting means but spaced from and clearing the central bearing which also joins the interconnecting means, whereby the cross support is made rigid and strong despite its irregular shape and assembled construction.

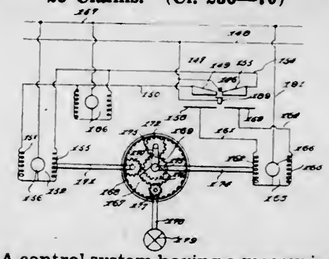
1,947,297

CONTROL APPARATUS

Anker E. Krogh, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 16, 1928. Serial No. 312,923

29 Claims. (Cl. 236—70)



15. A control system having a measuring device, a first set of contacts, a second set of contacts, said sets of contacts being relatively movable, said first set of contacts being engageable by said measuring device, means operable by engagement of said measuring device with said first set of contacts for adjusting the relation between said sets of contacts, contacting means associated with said first set of contacts for engaging said second set of contacts, a first control mechanism operable by engagement of the measuring device with the first set of contacts, and a second control mechanism operable by engagement with said contacting means with said second set of contacts, said first control mechanism operating in accordance with the direction and extent of change of the measuring device relative to the first set of contacts.

1,947,298

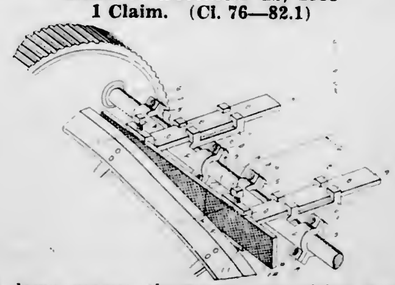
LAWN MOWER SHARPENER

Arthur Licht, Fulton, S. Dak.

Application March 24, 1931. Serial No. 524,909

Renewed December 12, 1933

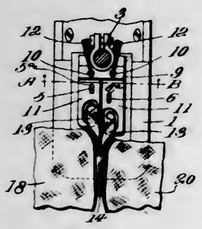
1 Claim. (Cl. 76—82.1)



A lawn mower sharpener comprising a plurality of members, means for attaching said members to a lawn mower and adjacent to the blades of the mower, an arm extending from each of said members in a direction away from the blades of the mower, inwardly disposed clips carried by the opposite end portions of the arm, an elongated member slidably mounted on the arm, said clips coacting with said elongated member to hold the same in applied position, a member threaded through the arm for engagement with

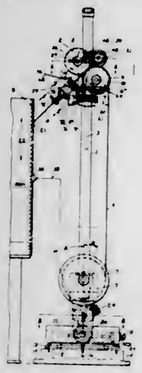
the elongated member and coacting with the clips for holding said elongated member against sliding movement, a plate carried by the forward extremity of the sliding member, and means for holding a sharpening element to said plate.

1,947,299
MACHINE FOR SIMULTANEOUSLY FORMING INDEPENDENT STITCHED SEAMS
Karl Maier, Stuttgart, Germany, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany
Application January 23, 1928, Serial No. 248,878, and in Germany February 1, 1927
2 Claims. (Cl. 112—136)



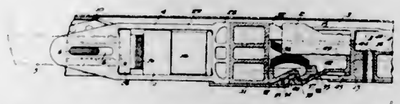
1. A sewing machine including in combination, a suspended cylindrical work supporting arm, two stitch forming devices for forming independent lines of stitching, said stitch forming devices being located relatively close together, a guide located in advance of the stitch forming devices for separating the edge portions of the fabric sections presented to said stitch forming devices, a fabric directing member at each side of said guide for receiving and directing the edge portions of a fabric section encircling the work arm to the respective stitch forming devices and for receiving and superimposing on each edge portion the edge portion of an independent fabric section and directing the same to the respective stitch forming devices.

1,947,300
WELDING APPARATUS
Frank H. Mayoh, Springfield, Mass.
Application June 28, 1932. Serial No. 619,725
19 Claims. (Cl. 219—8)



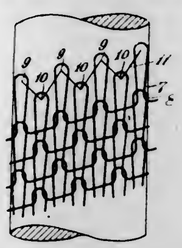
6. An electric welding apparatus including a welding head, a column and means to traverse said head along said column, a pivot adapted to incline the head and column at an angle with the base, cross-ways adjustment means, a swivel socket and base, all co-actional to place said welding head in position to operate on work placed adjacent thereto.

1,947,301
CUSHIONING MECHANISM
Ernest F. Mechlin, Washington, D. C., assignor to The Symington Company, New York, N. Y., a corporation of Maryland
Application February 24, 1931. Serial No. 517,968
6 Claims. (Cl. 213—22)



4. In combination with the draft sills of a railway vehicle, a casting comprising a transversely extending portion with a forward face serving as a backstop, arms extending forwardly therefrom and connected to said sills, a cushioning device mounted between said arms and normally abutting said forward face, and a front follower for said cushioning device, said casting having rearwardly facing shoulders on said arms cooperating with said follower to limit forward movement thereof.

1,947,302
CORD-SHAPED KNITTING-COVERED BODIES AND METHOD OF MAKING SAME
Franz Meiwald, Vienna, Austria
Application September 3, 1931, Serial No. 561,066, and in Germany August 11, 1931
2 Claims. (Cl. 66—190)

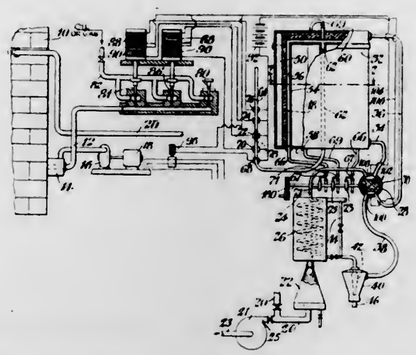


1. The combination with a central strand element of a knitted fabric surrounding said element and being composed of a plurality of threads formed into a plurality of individual spiral rows of circumferentially spaced loops with floats between the adjacent loops, the loops of each successive row extending part way into the spaces between the adjacent loops of the next adjacent row and overlying the floats between said adjacent loops whereby the loops of adjacent rows form a circumferential zigzag line around the element.

1,947,303
GAS ANALYZING PROCESS AND APPARATUS
John D. Morgan, South Orange, N. J., assignor to Doherty Research Company, New York, N. Y., a corporation of Delaware
Application March 14, 1932 Serial No. 598,607
15 Claims. (Cl. 236—15)

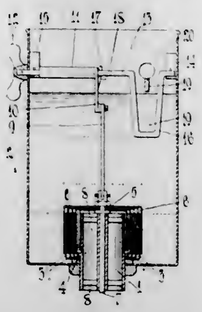
1. In a porous diaphragm gas analyzer containing an analyzer cell, automatic intermittently

operating means for periodically purging the ana-



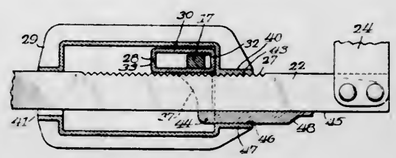
lyzer cell, and automatic means for regulating analyzing periods.

1,947,304
RETENTION OF LIQUIDS IN CISTERNS AND THE LIKE
Norman Andrew Morro, Remuera, Auckland, and Colin Stuart Scott, Herne Bay, Auckland, New Zealand
Application December 10, 1931, Serial No. 580,210, and in New Zealand April 21, 1931
2 Claims. (Cl. 137—21)



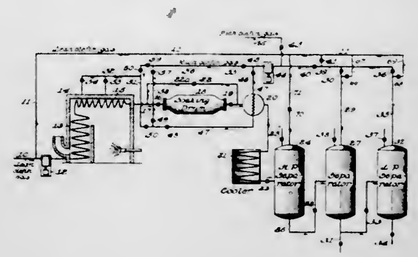
1. Apparatus for sealing liquid in containers, comprising an outlet for said container, a fitting disposed about said outlet and fixed thereto, and comprising a plurality of substantially concentric upstanding annular members, a second fitting movable with respect to said first fitting, and comprising a plurality of downwardly extending, substantially concentric annular members cooperating with said first mentioned annular members to form a tortuous path, an arm extending upwardly from said second fitting, a manually rotatable hollow shaft extending transversely of the container, a crank extending from said hollow shaft and connecting with said arm, for lifting said fitting, a second crank, having one bearing arm fitting loosely in said hollow shaft, the said first mentioned crank, during movement thereof, causing rotation of said second crank, a float arm cooperating with said second mentioned crank for actuating the first mentioned crank to restore the movable fitting to its sealing position upon fall of the liquid level to a selected point.

1,947,305
SLACK ADJUSTER
Charles J. Nash, Chicago, Ill., assignor to Universal Draft Gear Attachment Co., a corporation of Illinois
Application September 24, 1928, Serial No. 307,842
Renewed February 27, 1931
24 Claims. (Cl. 188—200)



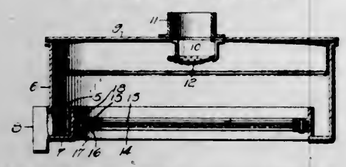
1. In a brake mechanism, a normally fixed buttress adjustable to regulate the mechanism, a fulcrum element having free movement relative to the buttress limited to a distance corresponding to normal brake shoe clearance, and means associated with the fulcrum element for positively holding the buttress fixed during movement of the fulcrum element preliminary to a regulating adjustment of the buttress.

1,947,306
POLYMERIZATION OF OLEFINIC GASES
William B. Plummer, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 24, 1932. Serial No. 630,285
4 Claims. (Cl. 196—10)



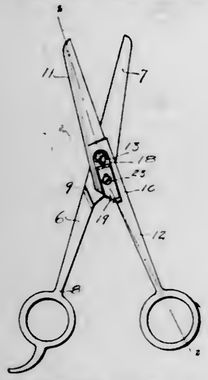
1. In the process of converting olefinic gases to higher boiling liquid hydrocarbons by polymerizing them at pressures of 500 to 3,000 lbs. per square inch and temperatures of from 750–1250° F. in a system which comprises a preheating zone, a heating zone, a soaking zone, and a recovery system for separating liquid hydrocarbons, high olefin content gases and low olefin content gases, the method of increasing the polymerization efficiency and increasing the yields of polymerized liquid products, which comprises passing low olefin content gases through the preheating zone, heating zone, soaking zone and product recovery means, separately recovering high olefin content gases and low olefin content gases, introducing said low olefin content gases into the system prior to the preheater whereby it will have an extended period of time in the heating coils, and introducing said high olefin content gas into said system prior to the soaking zone and subsequent to said preheating zone.

1,947,307
MEANS FOR SUPPORTING WIRE CLOTH
Harold Robert Rafton, Andover, Mass., assignor to Rafton Engineering Corporation, a corporation of Massachusetts
Application January 21, 1931, Serial No. 510,268
Renewed September 2, 1933
11 Claims. (Cl. 209—401)



1. In a screening device, in combination, a wire screening cloth, and reinforced rubber foraminate supporting means for said cloth having areas of substantial size contacting with one face thereof.

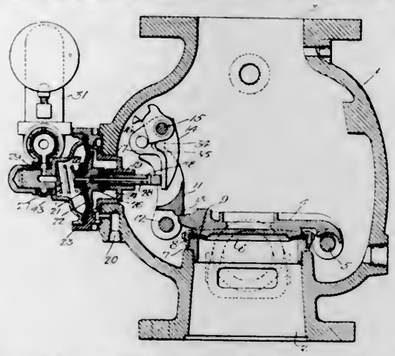
1,947,308
SELF-ADJUSTING SCISSORS
Joseph Paul Richardson, Catlettsburg, Ky.
Application October 12, 1932. Serial No. 637,531
4 Claims. (Cl. 30—13)



1. Scissors or the like having a pair of intersecting blade members, a pivot pin loosely screw-threaded in one of said members, an enlarged peripherally toothed head on the end of the pin remote from said member, the second blade member loosely surrounding the pin between its head and the first blade member, said pin being rotatably adjustable relative to said surrounding blade member, said blade member having a recessed portion, a lock bar releasably held in said recessed portion of the second blade member and engaging the head of the pin to cause the latter to draw the members together as the blades are moved into coincidence.

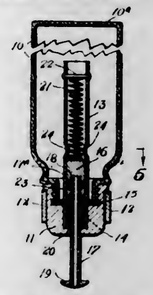
1,947,309
VALVE FOR FIRE-EXTINGUISHING SYSTEMS
Arthur C. Rowley, Philadelphia, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 24, 1931. Serial No. 532,571
6 Claims. (Cl. 251—167)

2. In a valve structure, a valve element and a seat therefor, said element being adapted for displacement from its seat by a predominating fluid pressure on the seating side thereof, means for normally retaining the valve element seated against said pressure, and flexible means operative at the seating side of said valve and by said



pressure for sealing the valve around the seat opening.

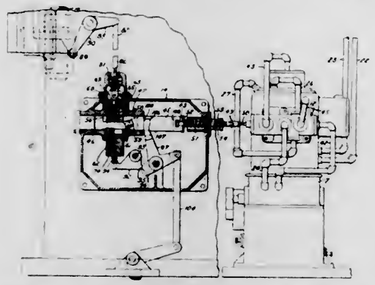
1,947,310
LIQUID DISPENSER
Warren M. Sample and Otho Olo Langdon, Muncie, Ind.
Application April 7, 1933. Serial No. 664,978
7 Claims. (Cl. 221—103)



1. In a liquid dispenser, a liquid container, a closure cap therefor, and dispensing mechanism carried by the cap and including a cylinder, having side openings therein, a regulable piston abutment in the cylinder inwardly of the openings, a tensioned piston in the cylinder constituting a valve closure for the openings when engaged with the abutment and a tubular plunger rod carried by the piston, extending through the closure cap and having openings therein forming communication between the cylinder inwardly of the piston and the interior of the plunger rod.

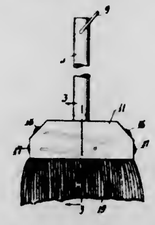
1,947,311
TRIP MECHANISM FOR HYDRAULICALLY CONTROLLED GEAR UNIT
Robert A. Schafer, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a corporation of Indiana
Application September 26, 1930
Serial No. 484,691
16 Claims. (Cl. 60—52)

1. A machine tool combining a frame; a head translatably mounted thereon; a hydraulic transmission for translating said head; control valve means therefor; manually shiftable means operable in an extreme positively limited point of movement to locate said valve means in a neutral position wherein said transmission is ineffective to translate said head; and means automatically operable upon release of said manual means to move said valve to an operative posi-



tion wherein said transmission is effective to translate said head.

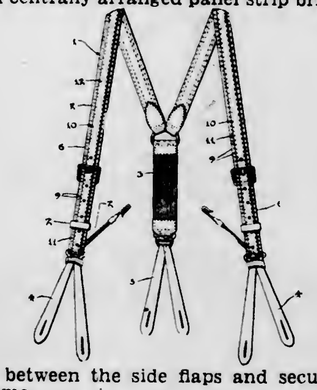
1,947,312
MOP
Solomon Schulman, Brooklyn, N. Y.
Application May 6, 1930. Serial No. 450,072
5 Claims. (Cl. 15—229)



1. A mop comprising an elongated block having a handle projecting therefrom at one side thereof, said block having a groove extending along one of its longitudinal edges and having other grooves formed in the end edges communicating with opposite ends of the first groove, a body of mop threads extending transversely across the first groove free of said second grooves, a clamp strip for holding said mop threads tightly within said first groove, said clamp strip being of U shape the connecting portion of the U extending along said first groove overlying said mop threads, the legs of the U extending upwardly along said second mentioned grooves away from and free of said mop threads and being of a size with respect to said second mentioned grooves so as to be snugly received within and against the walls of said second grooves, and a plurality of fastening pins extending through apertures of said legs into engagement with said block.

1,947,313
LEATHER BRACE
Lowell W. Shields, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York
Original application July 25, 1933, Serial No. 682,151. Divided and this application October 25, 1933. Serial No. 695,181
2 Claims. (Cl. 241—12)

1. Braces having body portions each comprising a main strip of material having its side portions folded inwardly along longitudinal lines to form side flaps spaced apart to provide an intervening space, longitudinal cores arranged between the flaps and the body portion of the main strip to form exterior projecting beads, and a raised centrally arranged panel strip bridging the



space between the side flaps and secured upon the same.

1,947,314
CONTINUOUSLY LOADED SUBMARINE SIGNALING CABLE
Willoughby Statham Smith, Benchams, Newton Poppleford, Henry Joseph Garnett, Sevenoaks, and John Norman Dean, Orpington, England
Application March 28, 1931, Serial No. 526,114, and in Great Britain April 11, 1930
7 Claims. (Cl. 178—45)



1. In a continuously loaded submarine signaling cable having a pressure equalizing medium surrounding the loading material, an outer layer of insulation for which the pressure equalizing medium has an affinity or vice versa, and an intermediate layer of insulation which does not react with the outer insulation disposed between and separating the pressure equalizing medium from the layer of insulation, said intermediate layer comprising a mixture of the material of the outer insulation and the material of the pressure equalizing medium.

1,947,315
SEPARATION OF VITAMINS FROM SAPONIFIABLE OILS
Walter O. Snelling, Allentown, Pa.
No Drawing. Renewal of forfeited application Serial No. 150,620, November 24, 1926. This application October 24, 1928. Serial No. 314,846
11 Claims. (Cl. 167—81)

1. As a step in the separation of vitamins from saponifiable oils the process which comprises heating a mixture of a saponifiable oil and pentane with an aqueous nonalcoholic solution of a caustic alkali.

1,947,316
DRAFT RIGGING
Frederick G. Suckow, Bowmansville, N. Y., assignor to The Symington Company, New York, N. Y., a corporation of Maryland
Application May 14, 1931. Serial No. 537,428
9 Claims. (Cl. 213—8)

9. In railway draft rigging, in combination with draft sills, an inner cushioning unit operable on buffing only, a plurality of outer cushion-

ng units disposed at opposite ends of the inner cushioning unit, means for associating a drawbar with each outer cushioning unit, stop means respectively associated with each of said outer units



for transmitting draft forces therefrom to said sills, and stop means associated with said inner unit for transmitting buffing forces from either of the outer cushioning units and said inner unit to the sills.

1,947,317

COMBINED COLLAR AND NECKTIE HOLDER

Caleb Stickney, Newburyport, Mass., assignor of one-half to George E. Stickney, Newburyport, Mass.

Application April 17, 1933. Serial No. 666,433
4 Claims. (Cl. 24—60)



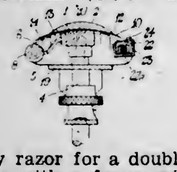
1. A combined collar and necktie fastener comprising an elongated body of rigid material, having means at one end for detachably connecting the same to the inner portion of the collar adjacent one of its ends and at the inner side thereof, and having a rigid, sharp pointed pin at its opposite end projecting perpendicularly therefrom and arranged to be passed outwardly through the overlapped inner end portions of the collar above the point where said portions are normally connected.

1,947,318

SAFETY RAZOR

George Taylor, Hollinghurst, Kingsway, Penwortham, Preston, England

Application June 11, 1932, Serial No. 616,714, and in Great Britain September 22, 1931
12 Claims. (Cl. 30—12)



1. In a safety razor for a double edged blade, the combination with a frame with end plates, a blade carrier mounted to reciprocate between the end plates, and means for reciprocating the carrier including a face roller mounted between the end plates so as to be adjacent the operative edge of the blade when assembled, of a sharpening surface of substantially flat form and a bearing for the said surface mounted on and between the end plates so as to cause the said surface to engage with the inoperative edge of the blade when assembled and to present the said surface at a correct angle for the sharpening of the inoperative edge.

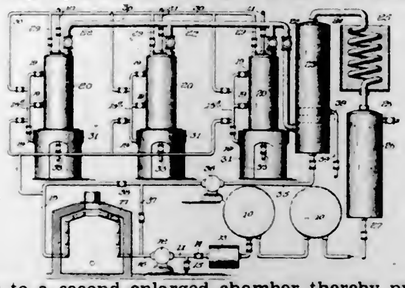
1,947,319

PREHEATING CHAMBER

Ernest W. Thiele, Chicago, Ill., assignor to Standard Oil Company, Indiana, Whiting, Ind., a corporation of Indiana

Application January 14, 1929. Serial No. 332,541
9 Claims. (Cl. 196—58)

1. The method of distilling hydrocarbon oils which comprises passing a stream of heated oil undergoing distillation into an enlarged chamber wherein vapors are evolved, passing the vapors from said chamber into a fractionating tower diverting a portion of the vapors from said cham-



ber to a second enlarged chamber thereby preheating the same, and thereafter diverting the said stream of heated oil from said first-named chamber and passing the said stream of oil to said preheated second chamber.

1,947,320

REMEDY FOR COMBATING DISEASES OF PLANTS AND IN A PROCESS FOR APPLYING SAME

Georges Truffaut, Versailles, and Isaak Pastak, Viroflay, France, assignors to the firm of Societe Anonyme Etablissements et Laboratories Georges Truffaut, Versailles, France

No Drawing. Application August 7, 1930, Serial No. 473,758, and in France August 16, 1929
2 Claims. (Cl. 167—22)

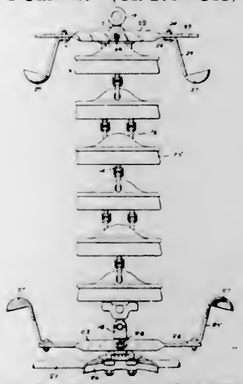
2. A remedy for combating diseases of plants comprising a mixture of a water soluble organic coloring matter and a wetting agent comprising a substituted amide of a fatty acid.

1,947,321

ARCING HORN FOR INSULATORS

Harold Blanchard Vincent and Harold Parker Sleeman, East Liverpool, Ohio, assignors to The R. Thomas & Sons Company, East Liverpool, Ohio, a corporation of Ohio

Application May 26, 1926. Serial No. 111,821
4 Claims. (Cl. 173—318)



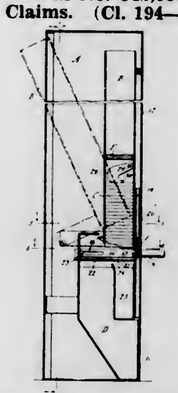
1. An arcing horn for a high tension insulator comprising a twisted flat bar, and an independent arcing terminal having a supporting arm adapted to be bolted to said bar, and provided at its free end with a concavo-convex terminal area of materially greater width than its supporting arm, the concave surface of the terminal being faced toward said bar.

1,947,322

VENDING MACHINE

Benjamin Wachs and Murray A. Wachs, Brooklyn, and David H. Colin, New York, N. Y.

Application November 14, 1932
Serial No. 642,664
3 Claims. (Cl. 194—80)



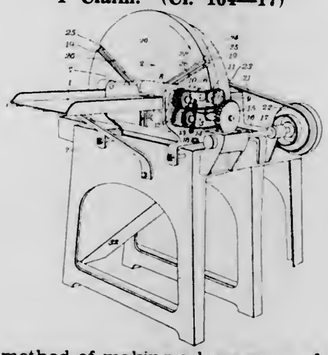
1. A coin controlled mechanism for vending machines, including a casing having a vertical coin guide leading to an outlet of the casing, a coin box secured to a wall of said guide intermediate the ends of the latter, a coin shelf at the top of the coin box, a horizontally sliding plunger normally intersecting the coin guide and having an inclined coin slot therein normally holding a coin at an angle across the coin guide and supported on the coin shelf to eject an article when the plunger is operated, means to hold back a coin from the plunger when the casing is empty, said means operated by the plunger to free the coin and permit the same to fall down the coin guide to the outlet of the casing.

1,947,323

METHOD OF SHREDDING PAPER AND THE LIKE

William J. Winston, Saginaw, Mich., assignor to Mitts & Merrill, Saginaw, Mich., a corporation of Michigan

Application November 21, 1932
Serial No. 643,569
1 Claim. (Cl. 164—17)



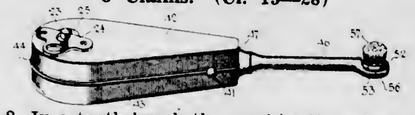
The method of making a loose mass of confusedly entwined long narrow strips of flexible material which consists in imparting continuous advancing movement under pressure applied to both top and bottom of a flat pack of material sheets and simultaneously cutting off swatches from the end of the pack by progressively shearing from a given corner of the pack cross sectionally to its diagonally opposite corner during the said advancing movement of the pack, the operative step which consists of imparting to the swatch, immediately upon its severance from the pack as above described, a sliding throw in the direction of the length of the severed swatch and outwardly from the axis of said shearing movement, whereby further separation of the individual strips of the swatch is attained by air impact on the advancing portion of the swatch.

1,947,324

TOOTHBRUSH

Alfonso F. Zerbee, New Rochelle, N. Y.

Application March 9, 1932. Serial No. 597,851
3 Claims. (Cl. 15—28)



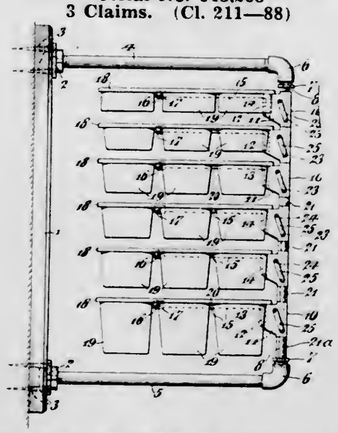
2. In a tooth brush the combination of a hand grip; a tubular extension carried by said hand grip; a circular cup-like socket mounted at the end of said extension, with its bottom in a plane substantially parallel with the axis of said extension and its concave side toward said axis; a pivot in said socket; a gear having a hub rotatable on said pivot, and having an annular channel between said hub and the teeth of the gear; a drive shaft rotatable in said extension; a pinion on said shaft housed in said extension and meshing with said gear; and a brush having a base removably mounted on the hub of said gear, and seated in said annular channel.

1,947,325

MULTIPLE REVOLUBLE TRAY RACK

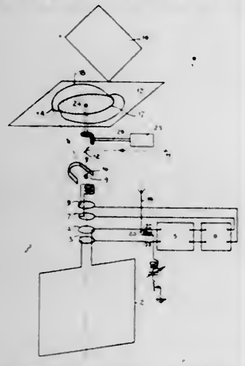
William J. Bailey, Narberth, Pa.

Application November 18, 1932
Serial No. 643,268
3 Claims. (Cl. 211—88)



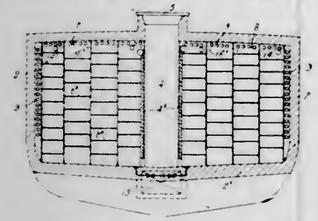
1. In a multiple tray rack, a laterally projecting supporting rack including a vertical element, a plurality of axially aligned sleeves mounted for swivel movement on the element, a plurality of trays provided with means to cooperate with the sleeves for supporting them on the sleeves, and cooperative means carried by the sleeves and the vertical element for retaining the trays instantly laterally removable from superimposed positions directly one above the other.

1,947,326
DIRECT-READING RADIO-COMPASS
Raymond Braillard and Jean Marique, Uccle, Belgium
Application March 31, 1932, Serial No. 602,350, and in Belgium April 3, 1931
6 Claims. (Cl. 250—11)



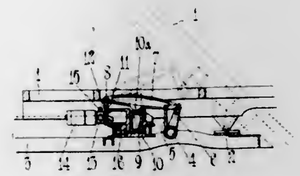
1. A direct-reading radio-compass, comprising a rotatable direction-finder exploring system, means for continuously rotating said system at a speed at the minimum equal to about ten revolutions per second, a mirror galvanometer, means for rotating the said galvanometer synchronously and in phase with the said exploring system, means for causing high frequency current generated in said system by incoming electromagnetic waves to act on said galvanometer so as to deviate the same, a source of light disposed so as to project a beam of light on the mirror of the galvanometer, and a screen disposed so as to receive the beam of light reflected by the mirror of the galvanometer, the surface of said screen being intersected by the axis of rotation of the galvanometer.

1,947,327
PRESERVATION OF FISH IN TRAWLERS OR MARINE CARRIERS
William George Brettell, Liverpool, England
Application November 16, 1931, Serial No. 575,396, and in Great Britain November 17, 1930
1 Claim. (Cl. 62—104)



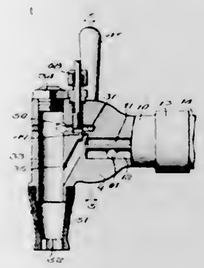
In a fish vessel in which fish are stored and preserved, means comprising a plurality of heat insulated chambers having cooling surfaces within same for maintaining the atmosphere at the required low temperature; liquid atomizing nozzles for creating and supplying a cold wet fog within the chambers at a low temperature for reducing the temperature of the fish to that required; and a multiplicity of separate liquid atomizing nozzle devices for supplying atomized liquid to the atmosphere during the storing of the chilled fish for maintaining the atmosphere in a saturated or super-saturated condition.

1,947,328
TIPPING GEAR FOR BODIES OF MOTOR VEHICLES
Stanley Burrows, Petone, Wellington, New Zealand, assignor of one-half to Charles Lawrence Neilsen, Petone, Wellington, New Zealand
Application September 30, 1930, Serial No. 485,504, and in New Zealand October 9, 1929
3 Claims. (Cl. 298—22)



1. A tipping gear for bodies of motor vehicles comprising a beam pivoted at one end to a fixture upon said vehicle, means pivotally connecting the other end of said beam to the tipping body, a fixed vertically reciprocating hydraulic ram engaging said beam for moving said beam in order to move said body to a load discharging position, a fitting provided upon the vehicle under the frame thereof, said ram being mounted in said fitting, an oil reservoir in said fitting, a pump for forcing oil from said reservoir to said ram, a wearing portion provided upon said beam intermediate the ends thereof and said ram being so disposed in said fitting as to contact said wearing surface.

1,947,329
FAUCET
William C. Buttner, Chicago, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application October 16, 1930. Serial No. 489,083
11 Claims. (Cl. 225—26)

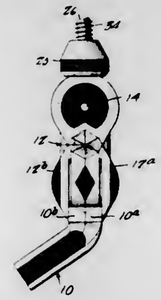


1. A faucet including a main body having a syrup supply passage and a water supply passage, said body also having a syrup outlet passage and two independent water outlet passages both adapted to receive water from the water supply passage, means for controlling syrup and water flow through said faucet, means for operating the controlling means to effect simultaneous flow of syrup and water through all of the passages therefor, means regulating the volume of flow of syrup, and other means regulating the volume of flow of water through one of the independent water outlet passages.

1,947,330
PROCESS OF PRODUCING PREPARATIONS OF OPIUM
Paul Casparis, Basel, and Kurt Siegfried, Zofingen, Switzerland
No Drawing. Application September 12, 1931, Serial No. 562,600, and in Switzerland October 28, 1930
3 Claims. (Cl. 167—67)

1. A method of producing a preparation of opium which is almost completely free of ballast matter and contains a quantity of each of the alkaloids of opium, which comprises first separating morphine and narcotine from an opium solution by means of ammonia, and extracting the other alkaloids by means of chloroform from the mother-liquor.

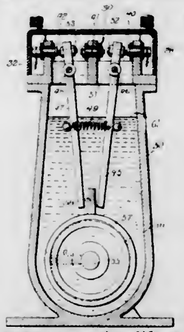
1,947,331
UNIVERSAL ELECTRIC PLUG
Russell L. Chadwick, Greensburg, Pa.
Application March 1, 1932. Serial No. 596,079
5 Claims. (Cl. 173—324)



1. A universal plug comprising a body composed of two correspondingly-shaped parts of which the terminal portions are arranged in angularly spaced relation, spaced blocks disposed between said terminal portions, fasteners passing through the terminal portions of the body parts and securing the same together with the terminal portions in spaced relation, a plug member having a pivotal connection with the body at one end between the terminal portions thereof, a ring member having a corresponding mounting with the body at the other end between the terminal portions thereof, jacks mounted in the plug member, binding posts mounted in the ring member, and conductor strips connecting the jacks with the binding posts and extending through the body and formed with spirals encircling the spacer blocks.

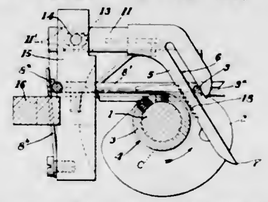
1,947,332
DEVICE FOR INDICATING DIRECTION OF ROTATION OF PROPELLER
Albert Christen, Hastings, N. Y., assignor to Consolidated Shipbuilding Corporation, New York, N. Y., a corporation of New York
Application June 11, 1931. Serial No. 543,717
3 Claims. (Cl. 200—6)

1. A switch including two spaced switch members electrically connected with each other and each pivotally mounted between its ends, three fixed contacts, two of said contacts being disposed respectively adjacent said members for engagement thereby, and the third contact being disposed between said members for engagement thereby, resilient means connecting said members which engages them respectively with said two contacts, and rockable means disposed for operatively engaging either one of said members



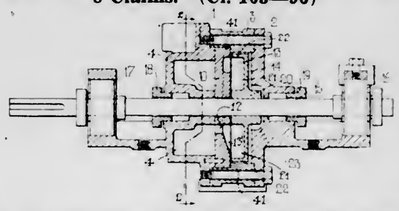
to move it into engagement with said third contact independently of the other member.

1,947,333
ROTARY TAKE-UP FOR SEWING MACHINES
Andrew B. Clayton, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application February 20, 1932. Serial No. 594,167
5 Claims. (Cl. 112—248)



1. In a rotary take-up, a shaft, spaced disks on said shaft, said disks defining an intermediate groove having a circular bottom concentric with said shaft, thread-guides cooperatively related with said disks, and cast-off means including a slotted thread-guiding element in the space between said disks having a toothed under portion adjacent the bottom of said groove.

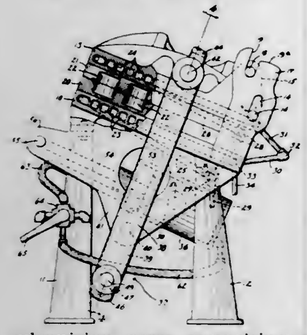
1,947,334
ROTARY FLUID-PRESSURE ENGINE
Eric Crewdson, Kendal, England, assignor of one-half to Gilbert Gilkes and Gordon Limited, Kendal, England, a British Company
Application February 19, 1932, Serial No. 594,126, and in Great Britain February 27, 1931
8 Claims. (Cl. 103—96)



1. A pump comprising a casing having suction and delivery passages therein, a diaphragm having a fluid entraining channel therein, and a pair of ports communicating with the ends of said channel and positioned nearer the center of the pump than the mean diameter of said channel, an imperforate rotor mounted in said casing,

vanes rounded on their trailing edges on said rotor and inclined in the direction of rotation of said rotor to entrain fluid along said channel, and a priming pocket to retain liquid when the pump is stopped and located between said suction passage and the suction port on said diaphragm.

1,947,335
VULCANIZING PRESS
Barthold De Mattia, Passaic, N. J.
Application December 17, 1929
Serial No. 414,649
2 Claims. (Cl. 18—17)



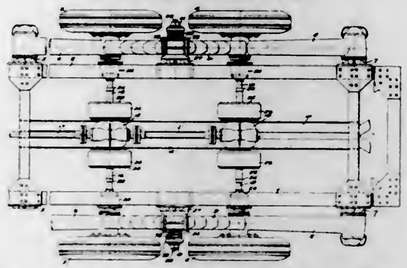
1. A vulcanizing press comprising a pair of opposed platens, one fixed and the other movable, extensions at the opposite sides and adjacent the rear edge of the fixed platen, said extensions being each provided with a pair of parallel slots which are substantially perpendicular to the opposing faces of the platens and one of said slots in each extension being open at one end while the other slot in each extension is closed, hinge pins extending laterally from the movable platen and disposed in the closed slots of said extensions, guide pins also extending laterally from the movable platen and adapted for movement into and out of the open-ended slots, and means for moving said movable platen to open and close the press.

1,947,336
SOUND PRODUCING MECHANISM
Wilfred A. Eaton, Pittsburgh, Pa., assignor to Bendix Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application May 4, 1932. Serial No. 609,225
6 Claims. (Cl. 116—142)



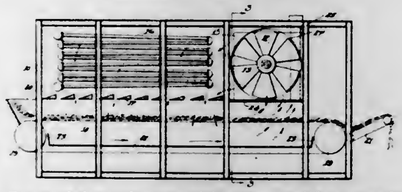
1. A sound-producing device adapted to be operated by differences in fluid pressure, comprising a body member, means dividing said body member into two chambers, a horn device extending through said dividing means and opening into one of said chambers, means connecting the other of said chambers to a source of fluid pressure, said dividing means being so formed as to provide an annular passage between said chambers.

1,947,337
MOTOR VEHICLE
Rollie B. Fageol, Los Angeles, Calif, assignor, by mesne assignments, to Automotive Engineering Corporation, a corporation of Delaware
Application February 11, 1925, Serial No. 8,356
Renewed April 12, 1932
18 Claims. (Cl. 180—22)



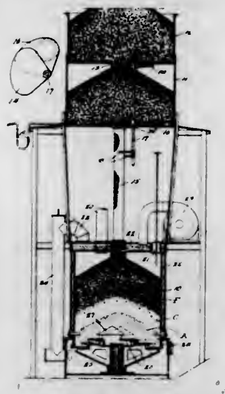
1. In a motor vehicle, a frame, two differentially driven flexible driving axles disposed one behind the other at the rear end of the frame, springs interposed between the axles and the frame, a link pivoted to the frame at each side thereof, the outer ends of the front drive axle being journalled in the free ends of said links, and an independently mounted second link pivoted to the frame at each side thereof, the outer ends of the rear drive axle being journalled in the free ends of the latter links.

1,947,338
DRIER
Frank L. Furbush, Graniteville, Mass., assignor to C. G. Sargents' Sons Corporation, Graniteville, Mass., a corporation of Massachusetts
Application May 11, 1931. Serial No. 536,431
2 Claims. (Cl. 34—12)



1. In a drier, the combination with a casing, an air inlet thereto, a conveyor for the material to be dried located in said casing near the bottom and heating coils in the casing near the top, of a horizontal stationary partition in the casing between the carrying strand and the return strand of the conveyor, to conduct currents of heated air under said strand close thereto for further drying the materials thereon, a horizontal perforated partition under the air inlet for permitting the air to pass from the lower part of the casing upwardly from one end of the conveyor, a blower located in position to receive this air and re-circulate part of it, and an air exit extending upwardly from the perforated partition out of the influence of the blower.

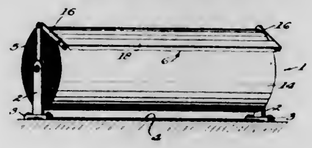
1,947,339
GAS PRODUCER
Albert Leet Galusha, Caldwell, N. J.
Application July 17, 1930. Serial No. 468,635
9 Claims. (Cl. 48—86)



1. In a gas producer, a producer gas generating chamber, a feed bin and a storage bin arranged to provide a working space between the feed bin and chamber, and a continuous chute passing from the feed bin to the chamber through the working space in combination with gate valves mounted to be operated simultaneously from the working space to control the flow of fuel from the storage bin to the feed bin, and from the latter to the chute, one valve being closed when the other is open.

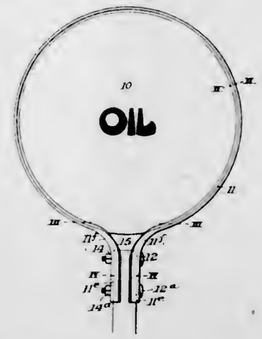
7. In a producer plant, a gas producer having a rotary grate comprising a number of annular horizontal plates of progressively smaller size from bottom to top and vertically spaced to receive ash between them for discharge over their inner margins and a cap member spaced above and arranged over the opening in the plate beneath it, said grate having a conical outline, and an overhead fuel feed means comprising a bin and a single chute directly connecting said bin and gas producer discharging substantially centrally of said producer whereby the operation of said grate regulates the supply of fuel by said chute.

1,947,340
PAPER CUTTING MECHANISM
Thomas H. Hallwood, Columbus, Ohio, assignor of one-half to William D. Belknap
Application May 9, 1932. Serial No. 610,101
7 Claims. (Cl. 242—55.5)



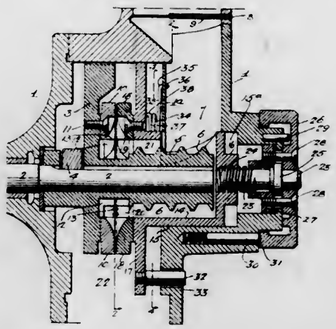
1. A paper roll support comprising a pair of longitudinally spaced brackets adapted for attachment to a supporting surface, a pair of adapter members having one of their ends pivotally secured to the outer ends of said brackets, means formed with said adapter members for the rotative support of a paper roll therebetween, and a paper cutting mechanism pivotally carried by the outer free ends of said adapter members.

1,947,341
SIGN CONSTRUCTION
Howard T. Hallowell, Jenkintown, Pa., assignor to Standard Pressed Steel Co., Jenkintown, Pa., a corporation of Pennsylvania
Application June 3, 1932. Serial No. 615,240
9 Claims. (Cl. 40—125)



9. In a sign structure, the combination of a sign plate, a rim or frame in which the same is supported; said rim or frame having free ends extending outwardly from the same, a bolt for connecting those portions of said free ends immediately adjacent the sign plate whereby the later may be clamped to the frame after assembly before mounting, a support to which said frame may be connected with said free ends embracing the same; said support having a slotted end receiving said bolt, and means independent of said clamping bolt for securing said free ends to the support.

1,947,342
GRINDING MILL
Frederick P. Hess, Philadelphia, Pa., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania
Application December 31, 1931
Serial No. 584,199
10 Claims. (Cl. 83—8)



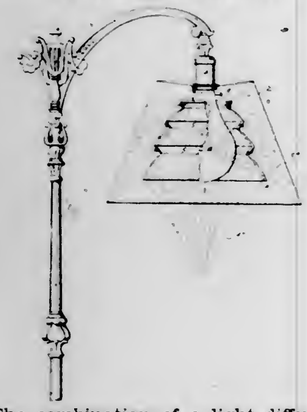
7. The combination in a grinding mill, of a pair of opposed grinding discs; resilient means tending to adjust one of said discs to a normal position spaced from the other; and means operative by the coupling action on said discs of the material to be ground for relatively adjusting said discs toward each other from said normal position.

1,947,343
TOY
Boniface Raven Kloeb and Ruby Kloeb, Portsmouth, Ohio
Application December 12, 1932
Serial No. 646,916
2 Claims. (Cl. 46—40)



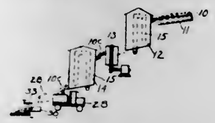
1. A toy comprising a pair of like gravitationally translatable members including bodies, heads formed with said bodies and being provided with bores transversely arranged therein at a downward angle from the inner sides of the heads to the outer sides thereof, feet connected with said bodies and having curved lower surfaces, means extending into said bores for pivotally associating the members at an inclination with each other and in side by side relation and a flexible element extending through the bodies of the members for connecting them together and for limiting the pivotal movement thereof.

1,947,344
REFLECTOR
Niels Lang, Lakewood, Ohio
Application October 30, 1930. Serial No. 492,256
2 Claims. (Cl. 240—81)



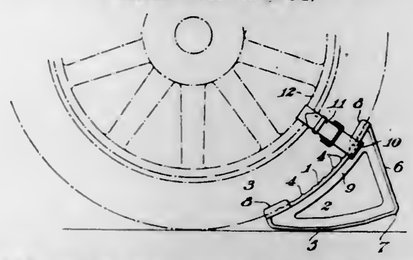
2. The combination of a light-diffusing lamp shade, a reflector within the shade, and a lamp arranged within the reflector, said reflector comprising a body of generally frusto-conical form and having a plurality of coaxially arranged annular frusto-spherical light-reflecting surfaces having their centers of curvature arranged at different points along the direction of the longitudinal axis of the reflector, whereby the reflected rays are directed through the enlarged end of the reflector body for the illumination of a given area, said reflecting surfaces being connected by annular co-axially arranged reversely disposed light-transmitting portions of such dimensions and configuration as to illuminate substantially the entire inner surface of the shade.

1,947,345
CONCRETE MIXING METHOD
William W. Lillard, Englewood, N. J.
Application April 3, 1930. Serial No. 441,224
4 Claims. (Cl. 83—73)



1. The method of preparing concrete for building a structure consisting of thoroughly drying concrete aggregate, mixing dry cement with the dry aggregate in a central mixing plant distant from said structure, storing the mixture of dry cement and dry aggregate in a dry bin, applying heat to said mixture to maintain it in a dry condition, transporting said mixture in bulk in a dry container to a point adjacent said structure, conveying said dry mixture from said adjacent point to said structure by conveying and agitating means, and sprinkling water on said mixture as it is agitated and moved from said adjacent point toward said structure.

1,947,346
MEANS FOR LIFTING OR JACKING-UP AUTOMOBILES OR OTHER ROAD VEHICLES
Thomas Ernest Charles Lintern, Cardiff, Wales
Application March 30, 1933, Serial No. 663,475, and in Great Britain February 22, 1932
1 Claim. (Cl. 254—94)



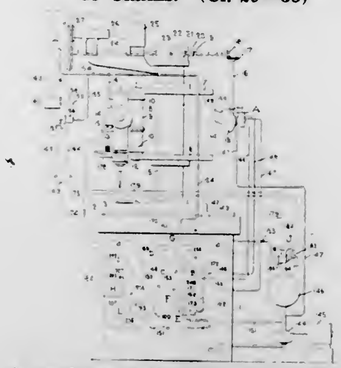
A device for jacking-up automobiles comprising a metallic shoe in the form of an open triangular frame which is of T-shape in cross-section, the web of the T being inwardly directed, and continuous around the shoe, the longest member of said triangle being inwardly curved from end to end to conform with the peripheral contour of a road-wheel tyre, a plurality of projecting transverse ribs on the outer surface of the said longest member, a plurality of lugs outwardly projecting from and disposed at the sides of the said longest member, for ensuring correct lateral positioning of the shoe on the tyre, a slot formed through the web of the said longest member adjacent the junction of the shortest and longest members, and an adjustable strap engaged in said transverse slot and adapted to pass transversely around the wheel rim and tyre, the third side of the frame, which forms a rocking surface for contact with the ground, having a configuration composed of a multiplicity of straight portions angularly disposed in relation to one another.

1,947,347
METHOD OF MAKING TUBULAR TURBINE BLADES
Christian Lorenzen, Berlin-Treptow, Germany, assignor, by mesne assignments, to Bendix Aviation Corporation, Chicago, Ill., a corporation of Delaware
Application January 17, 1930, Serial No. 421,423, and in Germany January 26, 1929
8 Claims. (Cl. 29—156.8)



1. The method of making tubular turbine blades, which consist in producing, at one end of a blank of circular cross section which is tubular from end to end, an external annular flange of circular outline surrounding such tubular end of the blank, and then transforming the body of said blank and said flange into non-circular forms of similar outline or cross section.

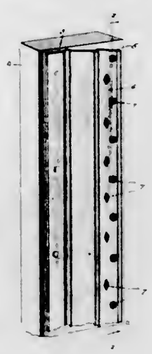
1,947,348
INDEXING MECHANISM FOR AUTOMATIC DRILLING MACHINES AND THE LIKE
Ralph M. Lovejoy, Boston, Mass.
Application December 26, 1930
Serial No. 504,798
19 Claims. (Cl. 29—38)



2. A machine of the class described having a hollow base constituting a liquid reservoir, a top therefor provided with an upwardly extending column or boss, a work carrier having a hub mounted upon said column or boss, and provided with pawl-engaging members, a pawl-actuating ring mounted upon said hub having a pawl engaging said boss, a support depending from said top into the chamber of said hollow casing, a rock shaft mounted in said support having an arm connected to said ring, a fluid-actuated motor pivotally mounted upon said support having a piston and piston rod, means connecting said piston rod to said rock shaft operable by the movement of said piston rod to actuate said rock shaft and thereby to rotate said carrier, an auxiliary motor mounted upon said support having a piston provided with a rack, a pinion on said rock shaft, and means for releasing pressure from said fluid-actuated motor, and means operable thereafter to supply fluid under pressure to said auxiliary motor to restore said rock shaft to normal position.

14. In a machine of the class described having a plurality of tool stations and a travelling work carrier, a fluid-operated motor for indexing said carrier to present the work successively to said tool stations, a yieldable stop including a dash pot operable gradually to arrest said carrier and to position the work at said stations, fluid-operated means for locking the carrier when arrested, fluid-operated means for restoring said stop to operative positions, means for supplying fluid under pressure to said locking means, a main control valve selectively operable to control the supply of fluid under pressure to said locking means or to by-pass said fluid under pressure therefrom, means operable by the by-passed fluid under pressure to release the fluid under pressure from said locking means, a controlling valve for said carrier-indexing motor, means operable by fluid under pressure when supplied to said locking means by said main control valve to retain said motor-controlling valve in exhaust position and operable upon release of fluid under pressure from said locking means to cause said motor-controlling valve to supply fluid under pressure to said motor and thereby cause the same to index said carrier, and means operable by said dash pot just before the completion of its carrier-arresting movement to restore said motor-controlling valve to exhaust position.

1,947,349
WEATHER STRIP
Louis A. Macklanburg, Oklahoma City, Okla.
Application March 21, 1932. Serial No. 600,305
1 Claim. (Cl. 20—69)



A flexible metallic weatherstrip comprising: a strip portion adapted to be secured to a frame member, and a free contact strip portion flexibly connected to the attaching portion, said free strip being provided with embossments spaced apart lengthwise thereof and staggered in relation to each other to strengthen the said free portion and to dampen the vibration thereof.

1,947,350
SECURING MEANS FOR WEATHER STRIPS
Louis A. Macklanburg, Oklahoma City, Okla.
Application March 21, 1932. Serial No. 600,306
1 Claim. (Cl. 20—69)

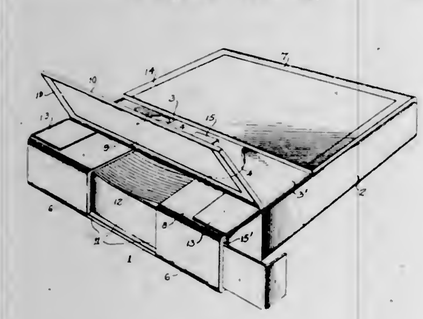
A sheet metal weatherstrip having a part extending lengthwise thereof and adapted to be secured to a frame member, said part being substantially U-shaped in cross section and having brad receiving apertures spaced apart along the center thereof, said part being stamped to form annular beads concentric with and of

greater diameter than said apertures and adapted to form with said part recessed seats for the



heads of brads used to secure said part to a frame member.

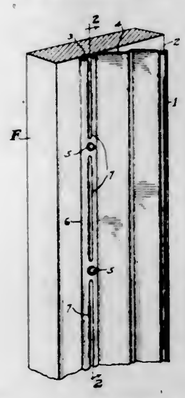
1,947,351
PACKING, DISPLAYING, AND DISPENSING DEVICE
Louis A. Macklanburg, Oklahoma City, Okla.
Application May 16, 1932. Serial No. 611,684
3 Claims. (206—52)



2. A shipping, displaying and dispensing container for coiled weatherstripping and the like comprising a rectangular carton conforming in size to that of the coil to be handled and having a cut-out portion across one of the end walls of the carton and partly across one of the side walls adjacent to the said end wall to expose the convolutions of the coil, whereby an operator may grasp the exposed convolutions to rotate the coil bodily in the carton.

1,947,352
WEATHER STRIPPING
Louis A. Macklanburg, Oklahoma City, Okla.
Application August 29, 1932. Serial No. 630,922
2 Claims. (Cl. 20—69)

1. A sheet metal weather strip having an edge part extending lengthwise of the strip and adapted to be secured by spaced apart brads driven therethrough to a frame member, said part having a depression formed lengthwise



thereof to hold said part rigid between securing brads.

1,947,353
ATOMIZER
Robert Mueller, Yonkers, N. Y.
Application August 17, 1932. Serial No. 629,214
1 Claim. (Cl. 299—90)

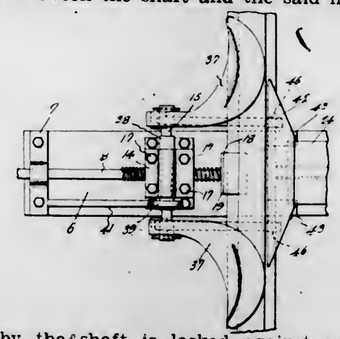


In an atomizer, a structure simulating a container and consisting of a rubber bulb, a rigid part, said bulb having a solid end portion disposed in a recess in said rigid part, and means securing said rigid part to said end portion, said rigid part forming a base for the atomizer, and said bulb being manipulatable to force fluid therefrom.

1,947,354
CAR STOP
Chester Patrick Mullen, Montgomery, W. Va.
Application March 31, 1931. Serial No. 526,743
2 Claims. (Cl. 104—257)

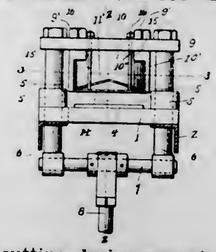
1. A stop for railroad rolling stock comprising a base, a rotatable shaft mounted on the base, a swingable abutment secured to the shaft and being swingable to a position over a railroad track, a member through which the shaft is freely rotatable, said member being provided with an arm, a projection on the base against

which one end of the arm can engage, and means between the shaft and the said member



whereby the shaft is locked against rotation when the arm is abutting the projection.

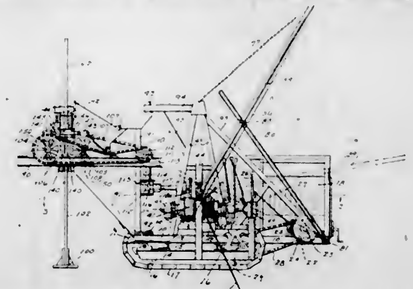
1,947,355
CUTTING DEVICE
Edward J. O'Neill, Syracuse, N. Y.
Application September 28, 1931
Serial No. 565,609
4 Claims. (Cl. 164—47)



1. A pad cutting device comprising a stationary block formed with an I-shaped slot having spaced portions of each side wall thereof upon an outwardly directed curve, a pair of spaced parallel die plates seated on said block, of less length than that of said slot, having the opposed edges thereof flush throughout with said side walls and for supporting a portion of a web of material from which the pads are cut, a reciprocatory rectangular knife element having a portion conforming in contour to that of said slot, said portion being formed with a pair of oppositely disposed flared transversely extending end cutting edges and a lengthwise extending central cutting edge merging at its ends into the transverse centers of said end cutting edges, each of the said end cutting edges inclining upwardly from each end thereof to its transverse center, said central cutting edge inclining upwardly from each end thereof to its transverse center, said portion being adapted for passage through the material, between said die plates and through the slot for severing the web at successively spaced points to provide a pad with rounded corners.

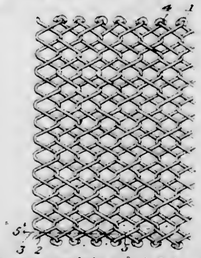
1,947,356
TAMPER BACKFILLING MACHINE
Augustus J. Penote, Shaker Heights, Ohio
Application June 20, 1931. Serial No. 545,791
11 Claims. (Cl. 37—144)

1. A machine of the character described comprising a main frame, a driving mechanism supporting the frame, a tamper mechanism supported on said frame, a boom pivoted to said frame, and a scraping device supported by the boom, means to positively operate the scraping



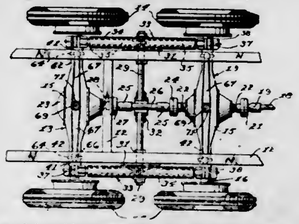
device towards and from the machine, and a motor carried by the frame and adapted to operate simultaneously or individually the tamping and scraping mechanisms.

1,947,357
FABRIC
Clarence E. Pink, Cambridge, Md.
Application July 17, 1933. Serial No. 680,847
8 Claims. (Cl. 245—6)



1. A fabric comprising right and left hand coil strands, said right hand coil strands spirally fed one into another and the left hand coil strands spirally fed one into another, and the right and left hand coil strands interlocking with one another to prevent separation.

1,947,358
TORQUE-RESISTING ARRANGEMENT FOR VEHICLES
Alden G. Rayburn, Sausalito, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation, a corporation of Delaware
Application April 2, 1930, Serial No. 441,119
Renewed July 10, 1933
16 Claims. (Cl. 180—22)



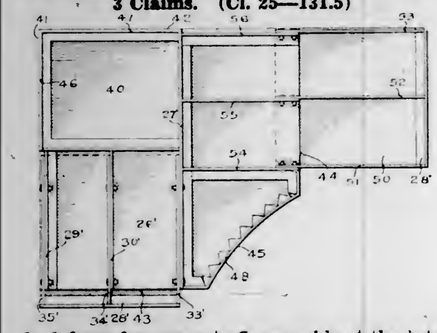
1. In combination with a vehicle frame, an axle; means supporting the frame upon said axle, said means including nonrotatable elements individual to the ends of said axle and surrounding the latter; and nondeformable means inter-

connecting both ends of said axle with said elements and encompassed by the latter in a manner to resist torque reactions while permitting universal movement between said axle and said nonrotatable elements.

1,947,359
DEWAXING PETROLEUM OILS
Ernest W. Reid, Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application April 2, 1931
Serial No. 527,343
5 Claims. (Cl. 196—19)

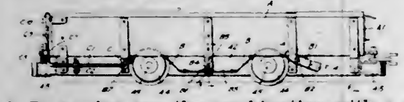
5. The method of dewaxing petroleum oils which comprises dissolving said oil in a solvent comprising isopropyl ether and acetone in the proportion of about 60 parts to about 40 parts by volume; cooling the solution to precipitate the wax; and separating the wax from the solution.

1,947,360
APPARATUS FOR FORMING CONCRETE FLOORS
Henry W. Roos, Cincinnati, Ohio
Application March 13, 1930. Serial No. 435,469
3 Claims. (Cl. 25—131.5)



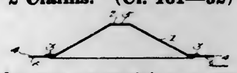
1. A form for concrete floor molds at the intersection of a beam and a column head, comprising a body portion substantially rectangular in form but having a corner cut away to form a curvilinear edge, a part adjustable on the body portion between the curvilinear edge and one of its longer sides, a plurality of spaced bars secured at their ends to the under surface of the adjustable part but spaced therefrom at their other ends to provide a clearance for said body portion, a plurality of spaced bars secured to the under surface of said body portion and adapted to overlap said first mentioned bars, and means for securing said overlapping bars to each other for retaining the parts in adjusted position.

1,947,361
MINE-CAR BRAKE
Hugh W. Sanford, Knoxville, Tenn.
Application August 8, 1932. Serial No. 627,947
16 Claims. (Cl. 188—57)



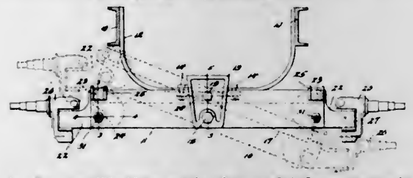
1. In a mine car, the combination with a plurality of wheels at a side of the car, a brake band extending into operative relation with said wheels, means for applying a pulling action to an end portion of said brake band, and means for applying approximately equal braking action to the wheels when the end portion thereof is pulled.

1,947,362
DIAPHRAGM
Harry E. Schoenhut, Philadelphia, Pa.
Application January 23, 1930. Serial No. 422,764
2 Claims. (Cl. 181—32)



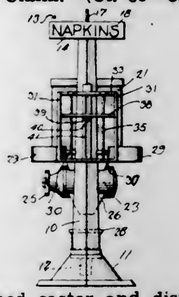
1. A diaphragm comprising a seamless truncated conical portion of paper and an integral web extending across the apex end thereof, said web being relatively flexible as compared to the conical portion.

1,947,363
OSCILLATING AXLE FOR VEHICLES
John Q. Shunk, Bucyrus, Ohio
Application April 9, 1931. Serial No. 528,943
7 Claims. (Cl. 280—111)



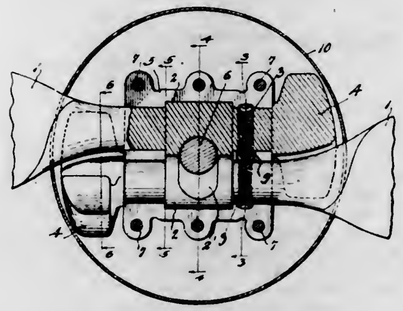
1. An oscillating axle for vehicles comprising spaced flat, wide front and rear axle bars, an equalizing bar between them, the axle bars being on opposite sides of the equalizing bar, wheel brackets, the said bars being pivoted at their ends to the wheel brackets and intermediate their ends to the vehicle frame, the said wheel brackets being provided with an elongated extension that fits between the said axle bars to transmit the impact on the wheels of the vehicle to the said axle bars.

1,947,364
DISPENSING DEVICE AND CONDIMENT HOLDER
Leon Spino, Clyde, N. Y.
Application February 14, 1933. Serial No. 656,712
1 Claim. (Cl. 65—55)



In a combined castor and dispensing device, a rotatably mounted standard, holders on the standard for articles, one of the holders being adapted for supporting napkins and including a U-shaped frame, a cross bar at the upper rear edge thereof, guide rods between the cross bar and bottom of the holder, a slotted channel member forming a part of the holder and attached at its lower end to the standard and a follower guided on the rods and slotted channel member.

1,947,365
AIRPLANE PROPELLER
John E. Thompson, Paisley, Ontario, Canada
Application November 25, 1931
Serial No. 577,323
1 Claim. (Cl. 170—163)



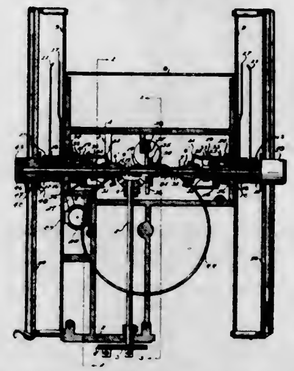
A variable pitch propeller comprising a pair of blades, the shank portions of which are arranged in overlapping relation, a counter-balance weight connected to the end of each shank and having spaced wing portions coacting with the adjacent blade shank to limit the rotative movement thereof, common means for connecting the shanks to the propeller shaft, and means for rotating the blades to vary the pitch of the same.

1,947,366
GAS AND FLUID SEPARATOR
Harry A. Ward, Shreveport, La.
Application October 3, 1931. Serial No. 566,768
7 Claims. (Cl. 137—103)



1. In a gas and fluid separator the combination with a casing having a supply inlet and gas and fluid outlets, of a frame mounted in the casing, a float, a tube vertically guided in the frame and extending thru the float, said tube being open at its upper end and having openings communicating with the lower interior of the float, a fluid discharge opening providing a valve seat, and a valve stem carried by the lower end of said tube for engaging upon said seat to control discharge of fluid thru the fluid outlet.

1,947,367
REGISTERING FLUID METER
Harry G. Weymouth, Pittsburgh, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 12, 1929
Serial No. 413,602
11 Claims. (Cl. 235—94)



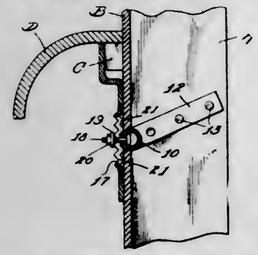
3. In a fluid metering indicator, a unit drive shaft carrying a pointer, an angularly disposed hub mounted on and normally rotatable with said shaft, a nutating gear journalled on said hub, a sleeve journalled on said drive shaft and carrying a pointer, a second gear journalled on said sleeve and engaged with said nutating gear, and a friction drive between said second gear and said sleeve.

1,947,368
SLIDE BUCKLE
Paul W. White and Paul Heinze, Chicago, Ill., assignors to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application November 25, 1933
Serial No. 699,646
7 Claims. (Cl. 24—73)



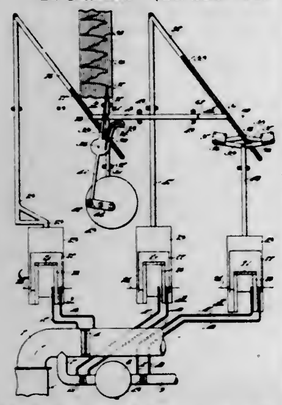
1. A slide buckle, comprising a pair of slidably engaged frames each having side bars and cross bars connecting said side bars defining a slot for receiving a strap threaded therethrough, a cross bar of one of said frames cooperating with a cross bar on the other of said frames and being spaced a sufficient distance apart to receive a strap threaded therebetween when in an unclamped position, and means on said last mentioned cross bars cooperating with said strap to effect a snap engagement therewith when said frames are moved in opposite directions upon the tensioning of said strap whereby said strap is clamped in adjusted positions.

1,947,369
MOVABLE AND ADJUSTABLE PLUMBING FIXTURE HANGER
Otto Witzleb, Dixon, Ill.
Application July 1, 1931. Serial No. 548,187
4 Claims. (Cl. 248—30)



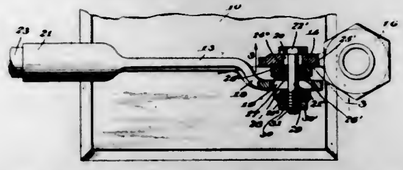
1. Means for supporting plumbing fixtures having mounting elements thereon, comprising a slotted stationary horizontal support, a plurality of bracket members mounted against the support, bolts extending through the slot and the bracket members for securing the latter, said bracket members having sockets thereon adapted to receive the mounting elements of the fixtures, said bracket members having vertically elongated slots for the passage of the bolts whereby the bracket members may be adjusted vertically, and other means on the bracket members cooperating with the support for positively maintaining a vertically adjusted position.

1,947,370
APPARATUS FOR MEASURING GASES
Maurice B. Zoll, Fort Wayne, Ind., assignor to The Western Gas Construction Company, a corporation of Indiana
Application February 1, 1930, Serial No. 425,180
Renewed April 18, 1933
14 Claims. (Cl. 234—34)



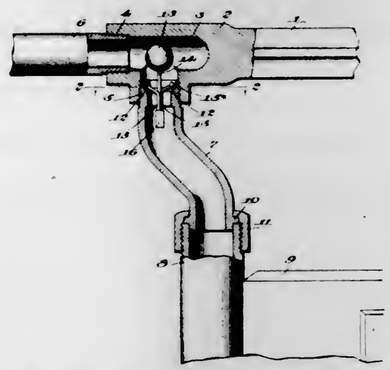
1. Apparatus for determining the amount of corrected gas in a stream of raw gas comprising an orifice meter for said stream, means for diverting a continuous sample of the mixture from said stream, an orifice meter for said continuous sample, means for correcting the continuous sample, an orifice meter for the corrected sample, mechanism positioned by the relative readings of the continuous sample and corrected sample meters, and means for reducing the reading of the first-named meter in accordance with the position of said mechanism.

1,947,371
GAS METER BAR
Charles Tyler Bard, Norwich, Conn.
Application December 8, 1931. Serial No. 579,805
3 Claims. (Cl. 285—3)



1. In a device of the class described, fittings adapted for attachment to the inlet and outlet pipes of a meter, integral opposed extensions on said fittings, one of said extensions having an offset portion to receive the extension of said other fittings and having a single elongated slot, said other extension having a circular aperture arranged to register with the slot, a ball and socket member interposed between said extensions, a bolt extended through the aperture and slot of said extensions and through said ball and socket members, a second socket member carried by said bolt and contacting one of said extensions, and a ball member in loose engagement with said bolt for seating engagement within said last named socket member.

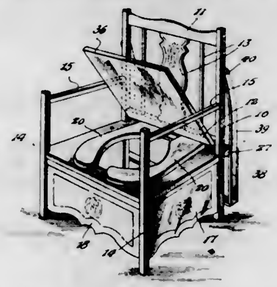
1,947,372
AUTOMATIC GAS SHUT-OFF
Charles Tyler Bard, Gales Ferry, Conn.
Application September 2, 1933. Serial No. 688,050
3 Claims. (Cl. 137—162)



3. An automatic gas shut off comprising a pipe, a nipple having a threaded end connected with the pipe and being provided with a valve seat near said threaded end, a ball valve, a stem for supporting the ball valve, and retaining members soldered to the stem within the nipple and having portions arranged to engage the valve seat for holding the ball valve above the seat while permitting the flow of gas through the nipple.

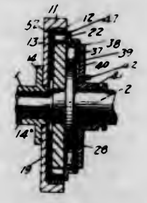
1,947,373
COMMODE CHAIR
Leon R. Bickel, Upper Darby, Pa.
Application May 20, 1931. Serial No. 538,808
8 Claims. (Cl. 155—31)

2. In a commode chair, a back rail having a rabbet formed therein, uprights connected to the ends of the rail, a pair of relatively movable seat sections, a rod housed in said rabbet and journaled at the ends in said uprights, screw



threads on said rod, and nuts carried by said sections projecting into said rabbet and engaging said screw threads.

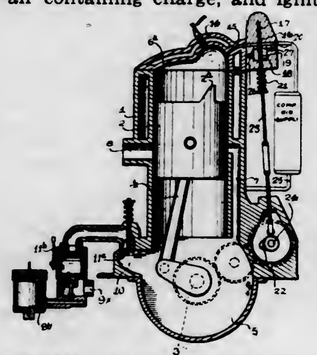
1,947,374
SEMIAUTOMATIC ROLLER CLUTCH TRANSMISSION
Gibbs Blackstock, Toronto, Ontario, Canada
Application July 9, 1931. Serial No. 549,748
8 Claims. (Cl. 192—47)



1. In a roller clutch transmission device, the combination with main driving and driven parts, of a floating member to which one of the said main parts is adjacent, these floating and adjacent members having a limited arc of mutual freedom, roller clutch parts between the floating member and the other of the said main parts adapted to assume a driving condition in which they can transmit the drive and a released condition in which they cannot, mechanism controlled by the position of the floating member in the said arc for maintaining the roller clutch parts in the driving condition when the floating member is in the drive position at one end of the arc and in the released condition when it is at the other end of the arc in the release position, means for locking the floating member in the drive position, and means by which an operator can unlock it to allow the advance of the main driving part to carry it to the release position.

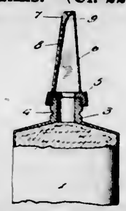
1,947,375
METHOD OF OPERATING AN INTERNAL COMBUSTION ENGINE AND AN ENGINE EMPLOYING SUCH METHOD
Neil O. Broderson, Rochester, N. Y.
Application January 30, 1929. Serial No. 336,246
16 Claims. (Cl. 123—32)

1. The method of operating internal combustion engines which consists in adding fuel charges of a fixed or constant amount under pressure to successive compressed air-containing charges in the combustion chamber of the engine to cause such added fuel charges to stratify in the compressed air containing charge, and igniting the



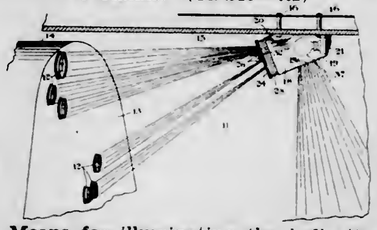
compressed added charge to cause it to burn and ignite the air containing charge.

1,947,376
COLLAPSIBLE TUBE
Matthew M. L. Burrell, Millheim, Pa.
Application February 10, 1932. Serial No. 592,139
2 Claims. (Cl. 221—60)



1. A container comprising a collapsible tube having a neck, a delivery spout substantially U-shaped in cross section extending from the neck in alinement therewith, and a resilient sealing spring forming a closure for the open side of the spout and having one end thereof fixed relative to the spout and its other end curved inwardly and the outer edge thereof normally bearing against the back wall of the spout at the outer end thereof whereby the spout will be normally sealed.

1,947,377
LIGHT PROJECTING LAMP FOR LOCOMOTIVE CABS
Frederick W. Blanchard, Montreal, Quebec, Canada, assignor to T. McAvity & Sons Limited, Montreal, Quebec, Canada
Application February 15, 1932. Serial No. 593,070
5 Claims. (Cl. 240—7.1)



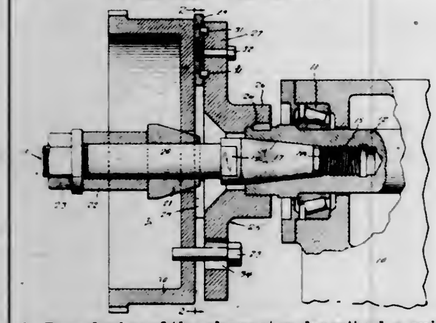
1. Means for illuminating the indicating instruments mounted on the back boiler head of a locomotive cab comprising a lamp casing mounted in the upper rear portion of the cab and having a source of light mounted therein, said cas-

ing presenting a bottom wall sloping downwardly towards the front of the casing and a generally horizontal top wall having a portion thereof at the forward end sloping downwardly at an angle corresponding to the slope of the bottom wall, and a front plate closing the forward end of the casing and inclined so that its lower edge is disposed rearwardly of its upper edge, said plate being provided with openings through which beams of light are projected downwardly and forwardly onto the aforesaid instruments.

1,947,378
LATHE ATTACHMENT

John Y. Blazek, Cleveland, Ohio, assignor to Lempco Products, Inc., Bedford, Ohio, a corporation of Ohio

Application February 25, 1932. Serial No. 594,979
4 Claims. (Cl. 82—40)

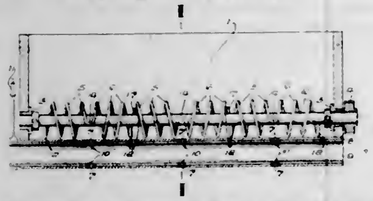


1. In a device of the character described, a spindle, a bore extending into said spindle a short distance, an arbor detachably secured in said bore, a face plate non-rotatably mounted on said spindle independently of said arbor and carrying thin blocks positioned flat thereagainst and adapted to engage a flywheel, means for centering said flywheel with respect to said arbor and face plate and urging it against the blocks, and means for preventing rotation of the flywheel with respect to said face plate.

1,947,379
LIME AND MANURE DISTRIBUTOR

Arthur Weir Cargill, Waitawa, New Zealand

Application September 1, 1932, Serial No. 631,415, and in New Zealand September 3, 1931
5 Claims. (Cl. 221—130)

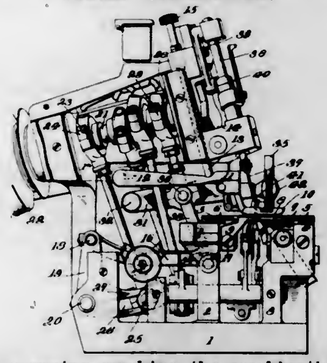


1. A distributor comprising a hopper having its longitudinal sides arranged in converging relation and connected by a bottom, a rotatable spindle extending longitudinally through the lower part of the hopper, a series of right and left-handed helices mounted alternately end-to-end on said spindle to rotate therewith, said helices being adapted to cooperate in pairs during rotation to convey material to the spaces between the two individual helices of each pair, a tube secured in the bottom of the hopper and extending longitudinally thereof and having outlet openings arranged in line with the spaces between the helices, and an angularly displaceable member disposed axially within said tube and having openings therein movable into registration with the first mentioned openings.

1,947,380
FEEDING MECHANISM FOR SEWING MACHINES

Norman V. Christensen and Frederick F. Zeier, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois

Application April 16, 1930. Serial No. 444,771
7 Claims. (Cl. 112—215)



1. In a sewing machine, the combination of a work support, a shaft, a feed bar beneath the work support, a feed dog carried thereby, means actuated by said shaft for moving the feed dog back and forth, a trimming blade, means independent of the feed bar for supporting said trimming blade, and means actuated by said shaft for raising and lowering said feed dog and for imparting a substantially vertical right-line movement to said trimming blade, said last-named means including a member so disposed as to give to said feed dog a substantially flat path of travel during the feeding of the fabric.

1,947,381
REFRIGERATION PROCESS AND ADSORBENTS THEREFOR

Gerald C. Connolly and Ernest B. Miller, Baltimore, Md., assignor, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland

No Drawing. Application December 6, 1930
Serial No. 500,666
24 Claims. (Cl. 62—179)

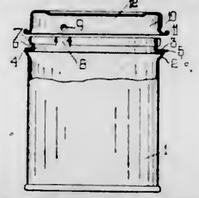
1. A method of refrigeration consisting in evaporating liquid amo and adsorbing the gaseous amo, in the substantial absence of permanent gases, in a sorbent consisting of a gel impregnated with a substance capable of combining with said amo to form an amo compound.

1,947,382
CAN, BOX, CANISTER, AND THE LIKE

John Francis Crowley, London, England

Application August 24, 1932, Serial No. 630,302, and in Great Britain August 26, 1931
3 Claims. (Cl. 220—40)

1. A container including a body part having a horizontal packing flange and a neck portion upstanding therefrom, said neck portion comprising a lower vertical portion adjacent said packing flange and an upper vertical portion of larger diameter than said lower vertical portion, whereby a circumferential groove is provided on said neck portion adjacent said packing flange, said upper vertical portion being provided with vertical grooves which merge into said circumferential groove, and a cap part having a depending skirt portion and a flange adapted to cooperate with

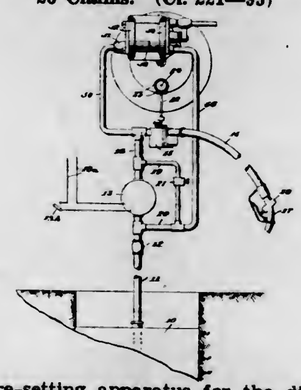


said horizontal packing flange, said depending skirt portion having projections adapted to fit within said vertical grooves when the container is hermetically sealed and adapted to be sprung over said upper vertical portion on said neck portion when the cap part has been removed and slightly turned whereby said projections may engage the circumferential groove to provide a friction closure.

1,947,383
AUTOMATIC RESETTING APPARATUS FOR DISPENSING INDICATORS

James M. Dayton, Torrington, Conn.

Application November 12, 1932
Serial No. 642,450
26 Claims. (Cl. 221—95)



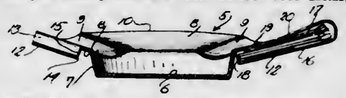
1. A re-setting apparatus for the dispensing indicator of a dispensing structure, comprising a rack and means for reciprocating the same, a pinion in the path of normal re-setting movement of said rack, means including a friction clutch for connecting said pinion with the indicator, and devices for maintaining the rack and pinion out of driving relationship with said indicator during the return movement of the rack.

1,947,384
COMBINATION ASH TRAY AND PAPER MATCH PACKAGE HOLDER

André de Marcillac, New Orleans, La.

Application December 29, 1932
Serial No. 649,433
2 Claims. (Cl. 131—51)

1. In a one piece portable combination ash tray and paper match package holder, an ash tray including a continuous flaring marginal flange having depressions for the reception of cigars, and bars partially struck out from the flange for

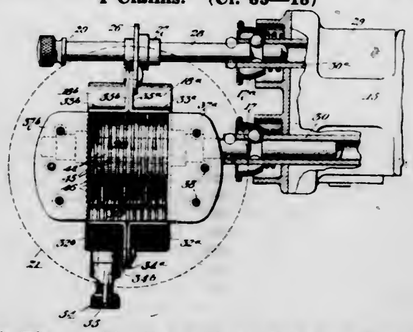


the interlocking support of a paper match package.

1,947,385
GRINDING MILL ATTACHMENT FOR AN ELECTRIC UTILITY DEVICE

Patrick J. Fitzgerald, Torrington, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a corporation of Connecticut

Application February 6, 1933. Serial No. 655,508
4 Claims. (Cl. 83—18)

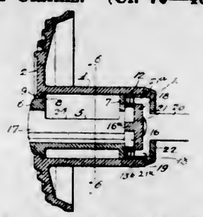


1. The combination with an electric utility device having a motor assembly including a plurality of tool driving chucks and a frame on which said motor assembly is mounted, of an attachment therefor, said attachment including a rotating grinding member and an adjustable stationary grinding member, said rotating grinding member having an operating shaft inserted in one of said chucks, and means for supporting a second shaft adapted to be inserted in another of said chucks whereby to properly support said attachment in fixed relation to said motor assembly.

1,947,386
NIGHT LATCH CYLINDER

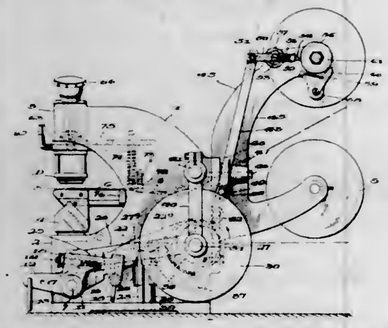
Samuel R. Fraim, Lancaster, Pa.

Application February 2, 1933. Serial No. 654,955
8 Claims. (Cl. 70—46)



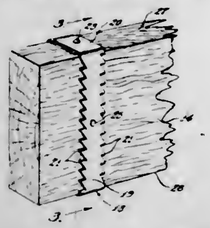
1. The combination of a night latch cylinder; a key bearing mounted within the cylinder; a disk mounted at the back of the key bearing, said disk having a reduced portion bearing against the end of the key bearing; a coil spring surrounding the reduced portion, one end of the spring being secured to the key bearing and the other end being secured to the casing; and a stop to limit the movement of the key bearing so that when the key is inserted in the key bearing and the bearing turned it will place tension upon the spring and when the bearing is released the spring will return the bearing to its normal position.

1,947,387
CUT-OUT MACHINE
Benjamin W. Freeman, Cincinnati, Ohio
Application January 18, 1932. Serial No. 587,431
29 Claims. (Cl. 164—25)



19. An ornamenting machine for operating on shoe upper materials comprising a fixedly mounted die, a work support movable toward and from said die, a power actuated mechanism including a driven shaft, a source of power and a clutch effective to connect said shaft to said source of power, a treadle shaft having an offset portion connected to said work support, a treadle lever mounted on the treadle shaft, a clutch key positioned to make and break connection between said clutch and said driven shaft, a clutch lever mounted on said treadle shaft and extending in proximity to said clutch key, a sleeve keyed to and extending from said treadle shaft, an eccentric strap mounted on said driven shaft and having a spindle mounted in telescopic relation to said sleeve, and means to move said treadle lever thereby to rotate the treadle shaft and produce by means of said offset portion, a movement of the work support toward the die, a further movement of said treadle shaft being effective to actuate said clutch lever and cause said clutch key to connect the clutch to the driven shaft whereby said eccentric strap, spindle portion and sleeve are effective to provide a further movement of the work support toward the die.

1,947,388
ANTISHRINKING DEVICE
Frank W. Frey, Chicago, Ill., assignor of one-fourth to Joseph S. Paluch, Norwood Park, Ill.
Application August 28, 1931. Serial No. 560,018
3 Claims. (Cl. 20—0.5)



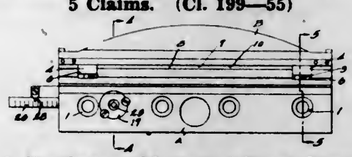
1. In combination with a building including wooden joists, metallic bands encircling said joists at intervals throughout their extent, and substantially flat relatively long piercing prongs on said bands possessed of sufficient rigidity to be driven into the joists between the fibers thereof so as to prevent shrinkage of the joists.

1,947,389
DENTAL AND SURGICAL EJECTOR
Earl Roy Fried, Seattle, Wash.
Application January 18, 1932. Serial No. 587,406
3 Claims. (Cl. 32—33)



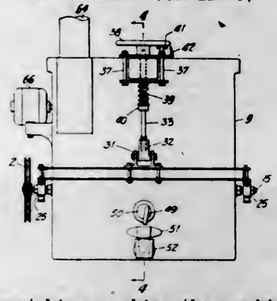
1. A dental and surgical ejector comprising a fluid conveying tube open at its opposite ends and having an intake opening adjacent one end, a removable closing plug for said one end, and adjustable means for regulating the capacity of intake of said opening, said means comprising a coiled spring mounted on the exterior of the inlet end of the tube and having the convolutions at the opposite ends thereof contracted to snugly engage said tube for holding said spring in various adjusted positions.

1,947,390
LINERLESS MOLD
Arthur L. Gagné, San Francisco, and Joseph A. Snyder, Mayfield, Calif., assignors to Intertype Corporation, Brooklyn, N. Y.
Application January 20, 1932. Serial No. 587,772
5 Claims. (Cl. 199—55)



1. A linerless mold comprising a lower half, an upper half movable with respect to the lower half, end blocks carried by one half and movable transversely of the other half of the mold for defining the ends of the casting cavity therein, and cam means carried by the lower half for positively raising or lowering the upper half for predetermining the point size of the slug to be cast.

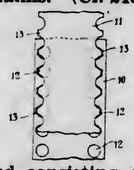
1,947,391
ETCHING MACHINE
William Guenst, Philadelphia, Pa.
Application December 2, 1932. Serial No. 645,350
21 Claims. (Cl. 41—9)



1. In an etching machine, the combination of a receptacle to contain the etching liquor, a shaft extending horizontally within the receptacle above

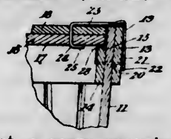
the liquor level thereof, means for rotatably supporting the shaft, a liquid spreader carried by the shaft and provided with paddles alined for rotation in a common path, one of said paddles extending a greater distance from the axis of the shaft than another, and a baffle wall extending from said side wall above the spreader.

1,947,392
HOLLOW ROD
Wilhelm Guntermann and Karl Stoll, Berlin, Germany
Application April 15, 1933, Serial No. 666,387, and in Germany March 2, 1931
12 Claims. (Cl. 248—30)



1. A hollow rod consisting of strips of resilient metal, one of said strips having openings along each edge spaced longitudinally of the strip, another of said strips having cooperatingly spaced teeth projecting from its edges and coplanar with the adjacent portions of said strip, said last strip being transversely bent and the teeth thereon being inserted in said openings and holding the last strip in transversely bent condition.

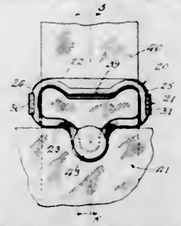
1,947,393
BASKET COVER FASTENER
Willis W. Hargroves, Portsmouth, Va., assignor to Planters Manufacturing Co., Inc., Portsmouth, Va., a corporation of Virginia
Application January 10, 1933. Serial No. 651,037
3 Claims. (Cl. 217—124)



1. In a basket, a cover carrying fastening elements, said cover being adapted to expose the top edge of the basket at least at points adjacent said fastening elements, each of said fastening elements consisting of a U-shaped wire having the open end thereof secured to said cover and having the closed end thereof projecting beyond said cover but not beyond the outside top edge of the basket body, and additional wire members secured to the upper portion of the basket body, each of said additional wire members extending upwardly on the inside thereof and between the closed end of each of said U-shaped wires and the edge of said cover, said additional wire members cooperating with said U-shaped wires and being adapted to guide the cover into proper position on the basket body and being adapted to be bent downwardly on the outside of the basket body to clamp the closed end of said U-shaped wires against the top edge of the basket body.

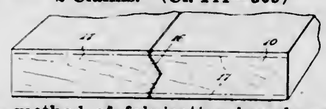
1,947,394
BUCKLE
Paul Heinze, Chicago, Ill., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application July 3, 1933. Serial No. 678,783
7 Claims. (Cl. 24—73)

3. A slide buckle, comprising a pair of slidably engaged frames each having side bars and cross bars connecting said side bars defining a slot for receiving a strap threaded therethrough, a cross bar of one of said frames having an outwardly extending button-retaining loop having a passage leading to the slot in the interior of the frame for receiving a button acting to support a garment or other article and the other cross bar



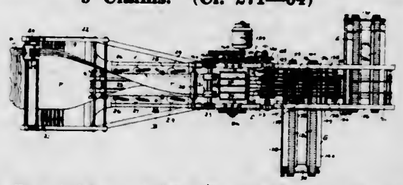
engaging said strap, said passage and slot being of sufficient width to permit said button to pass through said slot and the shank thereof into said loop, and a cross bar of the other of said frames cooperating with said strap engaging bar of said first mentioned frame to clamp said strap in adjusted positions therebetween automatically upon the tensioning of said strap.

1,947,395
FABRICATING BOARD
Edward W. Hutchings, Perry, Fla.
Application January 12, 1932. Serial No. 586,219
2 Claims. (Cl. 144—309)



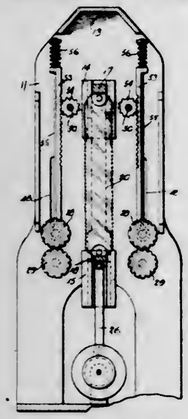
1. A method of fabricating boards consisting of forming on the confronting edges thereof interfitting tongue and groove surfaces which merge at the ends into glue lips disposed at substantially a right angle to the plane of the board, applying glue to the surfaces and glue lips, uniting the glued surfaces and lips under pressure, and dressing the boards to the depth of the glue lips.

1,947,396
MACHINE FOR MAKING PAPER BAGS
Roy W. Jaite, Lakewood, Ohio
Application June 19, 1931. Serial No. 545,408
5 Claims. (Cl. 271—64)



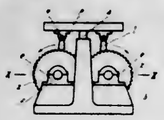
1. In a tubing machine for making tubular sections for valved paper bags including means for consecutively cutting and separating said tube into tubular sections, a main track for guiding the sections cut from said tube, a side track extending from said main track, a shiftable switch member for connecting said main track with said side track, coupling means between said switch member and said cutting means for timing the shifting of said switch member with respect to said cutting means, intermittently advanced conveyor means on opposite sides of the machine at the end of said main track and said side track and driving means for said conveyor means timed to advance same during shifting of said switch member.

1,947,397
WOOD SAWING MACHINE
Martin Kassay, Tarentum, Pa., assignor of one-half to Edward Cimbora, Avoca, N. Y.
Application April 6, 1933. Serial No. 664,825
1 Claim. (Cl. 143—84)



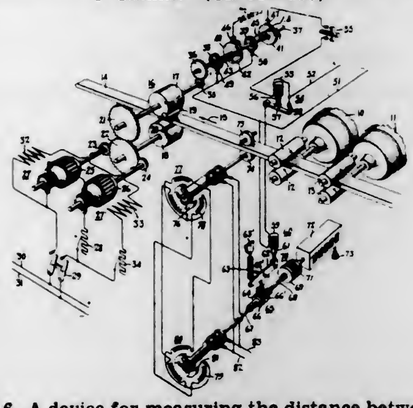
In a wood sawing machine, a frame, a saw vertically reciprocable therein, a pair of work-guide feed rollers at each side of the frame, means for reciprocating the saw and rotating the feed rollers, vertically adjustable means for the upper feed roller of each pair including a vertical rack bar adjacent each end of the upper rollers, a tensioned rod slidable on the rack bar and supporting the rollers and a cross-shaft adjacent each pair of rack bars, a pinion on each end of the shafts engageable with a rack bar, a lever pivoted on each shaft and having an extension abuttingly engaging the opposite shaft, a gear on each shaft adjacent a lever and a manually operable pawl on each lever engageable with the associated gear for rotating the shafts and pinions for raising the rack bars and rollers.

1,947,398
AGITATING MACHINE
Martin Stühler, Cologne, Germany
Application August 4, 1932, Serial No. 627,477, and in Germany August 18, 1931
3 Claims. (Cl. 259—91)



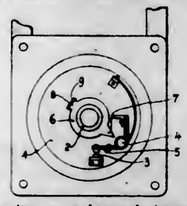
1. In an agitating machine for producing concrete bodies in molds, the combination of a frame, a heavy agitating plate horizontally arranged above said frame, rods for vertically guiding said plate relative to said frame, four bearings firmly connected with said frame, two spindles disposed parallel in said bearings and rotating in opposite directions, a common drive for said spindles, said spindles carrying each in symmetrical arrangement a connecting means, an eccentric and a flywheel, and connecting rods and links for transmitting the motion of said eccentrics to said agitating plate, all moving parts cooperating so as to cause all forces to balance each other to keep the center of gravity of the machine fixed during the motion thereof.

1,947,399
LENGTH MEASURING INDICATOR
Leonid A. Umansky, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 30, 1930. Serial No. 492,249
9 Claims. (Cl. 33—130)



6. A device for measuring the distance between two spaced apart points on a strip at which operations are performed by apparatus provided with a mechanism for intermittently performing an operation on the strip and with means for producing a relative movement between the strip and the mechanism, said device comprising an indicator, two separate engageable driving members for operating said indicator, one of said driving members being mounted on said indicator, means for actuating the other of said driving members at a speed which is subtantially directly proportional to the rate of the relative movement between said strip and said mechanism, biasing means for normally maintaining said driving members in a disengaged condition, power operated means for overcoming the effect of said biasing means and for effecting engagement of said driving members, and means responsive to the operation of said mechanism for effecting the operation of said power operated means during a period which is substantially equal to that elapsing between two successive operations performed by said mechanism on said strip.

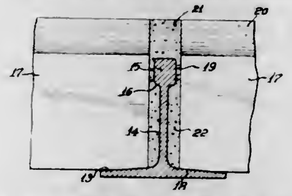
1,947,400
LUBRICATING ARRANGEMENT FOR MAGNETO-ELECTRIC IGNITION APPARATUS
Fritz Allendorff, Stuttgart, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany
Application December 5, 1931, Serial No. 579,335, and in Germany December 19, 1930
6 Claims. (Cl. 200—19)



1. In a magneto, a rotary interrupter plate, a bearing cover, a hub thereon, a stationary cam on said hub, a rocking lever on said plate, a pivot carrying said lever, a pair of contacts one of which

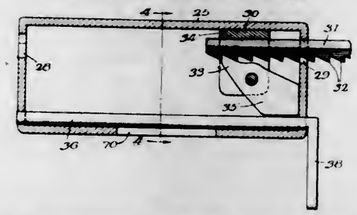
is operated by said lever, a disc rotating with said plate and a feed projection on said disc directed towards said pivot.

1,947,401
FLOOR AND CEILING CONSTRUCTION
Charles R. Birdsey and Herbert W. Reel, Hinsdale, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application November 26, 1928
Serial No. 321,847
6 Claims. (Cl. 72—68)



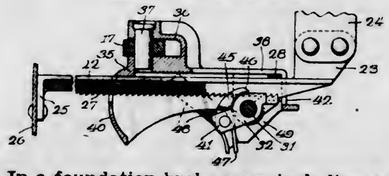
1. In a roof construction, a plurality of substantially parallel bulb T's comprising base, web and elongated bulb portions, the total height of the bulb T being substantially equal to the total width of the base, said web being solid, comparatively thin and of considerable depth and said bulb being flat sided and having a vertical dimension equal to about one-third the depth of said web, means for supporting said bulb T's, said bulbs forming shoulders along the lower edge of each bulb adjacent the web, precast gypsum tiles having substantially square ends supported by the bases of said bulb T's, said tiles having a thickness greater than the height of said T's and having their ends adjacent to and spaced from said bulbs, and grout poured about said bulb T's between said tiles so as to anchor said tiles to said shoulders.

1,947,402
SLACK ADJUSTER
Percy B. Camp, Maywood, Ill., assignor to Universal Draft Gear Attachment Co., a corporation of Illinois
Application May 17, 1928, Serial No. 278,518
Renewed March 3, 1932
10 Claims. (Cl. 188—200)



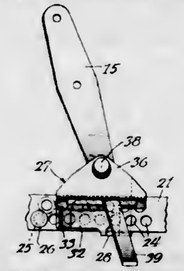
8. In foundation brake gear including a dead cylinder lever, the combination therewith of a manual adjuster associated with the fulcrum of said lever and adapted to take up excess slack in the gear, said adjuster comprising a rack, a pawl engageable with the rack, means for automatically advancing the pawl along the rack upon manual actuation of the adjuster if and only if there is excess slack in the gear, and means apart from the rack acting directly on the pawl for lifting the pawl from the rack for the insertion of new brake shoes when the parts are substantially at their normal operative position.

1,947,403
SLACK ADJUSTER FOR RAILWAY BRAKES
Percy B. Camp, Maywood, Ill., assignor to Universal Draft Gear Attachment Co., a corporation of Illinois
Application July 12, 1928. Serial No. 292,085
17 Claims. (Cl. 188—200)



2. In a foundation brake gear, including a live cylinder lever and a dead cylinder lever, the combination of means to adjust the brake gear to compensate for wear including a relatively fixed rack, a saddle movable along the rack, a pawl carried by the saddle and engaging the rack, a pawl lock pivotally mounted on the pawl, a rider having limited movement with respect to the saddle and a fulcrum on the rider for the dead cylinder lever.

1,947,404
BRAKE ADJUSTER
Percy B. Camp, Maywood, Ill., assignor to Universal Draft Gear Attachment Company, a corporation of Illinois
Application April 22, 1931. Serial No. 531,966
6 Claims. (Cl. 188—197)

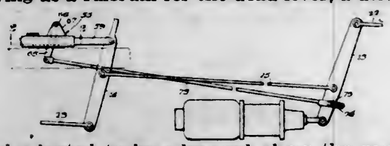


1. A manual slack adjuster for the foundation brake gear of railway cars comprising a fixed bar having a plurality of apertures, a pin insertable in one of the apertures, an adjustable dead lever fulcrum adapted to be supported by the bar and held against movement in one direction by the pin but freely movable at all times in the opposite direction, without removing the pin, to apply the brake shoes to the car wheels, and means locking the pin in the aperture until the lever fulcrum has been moved in the opposite direction a distance corresponding to normal brake shoe clearance, said means also indicating the appropriate aperture for the pin to secure proper brake slack.

1,947,405
AUTOMATIC SLACK ADJUSTER
Percy B. Camp, Maywood, Ill., assignor to Universal Draft Gear Attachment Company, Chicago, Ill., a corporation of Illinois
Original application May 17, 1928, Serial No. 278,518. Divided and this application April 22, 1931. Serial No. 531,924
6 Claims. (Cl. 188—200)

1. In a brake system for railway cars including a live cylinder lever, a dead cylinder lever and an air cylinder for operating said levers,

the combination of means for shifting the fulcrum of the dead lever to regulate the slack in the system and correct excessive piston travel comprising a casing fixed to the car underframe, a rack slidably mounted within the casing and serving as a fulcrum for the dead lever, a driving



pawl adapted to be advanced along the rack a fractional part only of the excess piston travel whenever such excess occurs, a spring in the casing associated with the driving pawl and returning the driving pawl to normal position upon release of the brakes, and a holding pawl for holding the rack in adjusted position.

1,947,406

PACKAGE OF TEXTILE MATERIAL AND MODE OF MAKING SAME

Angus M. Cox, Enka, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware

Application March 10, 1933. Serial No. 660,302

5 Claims. (Cl. 24—17)



1. A package securing device consisting of a strip of tearable material having one end folded to extend laterally from the body of the strip and the other end overlapping the first end and secured thereto.

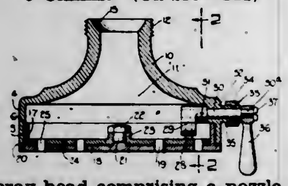
1,947,407

SHOWER HEAD

Edward S. Cornell, Jr., Larchmont, N. Y.

Application January 7, 1933. Serial No. 650,708

6 Claims. (Cl. 299—144)



1. A spray head comprising a nozzle provided with a discharge member having a plurality of discharge passages, a member associated in relative rotative relation with said discharge member, said second-named member being provided with discharge passages correspondingly disposed relative to said plurality of discharge passages of said discharge member to form sets of complementary discharge passages, certain of the walls of each of said sets of discharge passages being in substantial alignment with one another, and projecting elements extending from said discharge member and said second-named member in opposing directions through the discharge passages of each of said sets, said elements having faces extending planarly within each said discharge passage and means for effecting relative rotation between said second-named member and said discharge member.
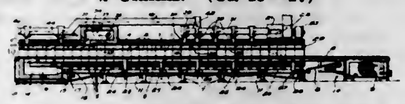
1,947,408

METHOD OF AND APPARATUS FOR ANNEALING GLASSWARE

Harold L. Eastman, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Application February 11, 1932. Serial No. 592,340

2 Claims. (Cl. 49—47)



1. Apparatus for annealing glassware, comprising an elongate tunnel, means for moving articles of glassware therethrough, a longitudinally extending flue in heat transferring relation with a predetermined zone of said tunnel adjacent to the ware-entering end thereof, means for supplying a heating medium to said flue at a point spaced a material distance from the ware-entering end of said tunnel, means for supplying a cooling medium to said flue adjacent to the ware-entering end of said tunnel, means for withdrawing media from said flue intermediate the points of supply of the heating and cooling media respectively, and means for selectively passing desired volumes of said heating or cooling media through at least one zone of said flue intermediate the ware-entering end of said tunnel and the point at which the heating medium may be supplied to said flue to compensate for differences between the temperature at which the ware arrives at the lehr and a predetermined desired temperature as to direction and amount, so as to present the ware on its arrival at a predetermined intermediate point in the lehr at said predetermined desired temperature irrespective of its temperature on being initially placed in the lehr.

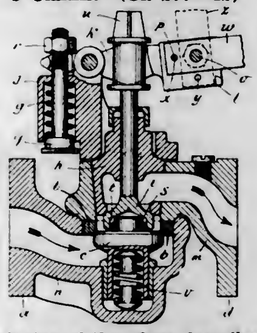
1,947,409

BLOW-OFF VALVE

Alfred P. Elten, Bremen, Germany, assignor to Gustav F. Gerdts, Bremen, Germany

Application April 23, 1929. Serial No. 357,545

3 Claims. (Cl. 277—42)



1. In a device of the class described having in a casing a check valve in axial alinement with a main valve, means for substantially simultaneously operating the valves comprising a lever hinged to the casing and engaging the stem of the main valve, an extension of the lever pivotably held thereon and a pin or rivet for yieldably interlocking said lever with its extension adapted to be sheared off by too violent an actuating force impulse, to thereby protect the device.

3. In a device of the class described having in a casing a check valve in axial alinement with a main valve, means for substantially simultaneously operating the valves comprising a lever hinged to the casing and engaging the stem of the main valve, a spring exteriorly held within a recess on the casing for closing the main valve, a bolt for transmitting the closing force of the spring to the end of the lever and a nut on the said bolt for regulating the closing force of the said spring, and a second spring interiorly held within a recess of the check valve for closing the latter.

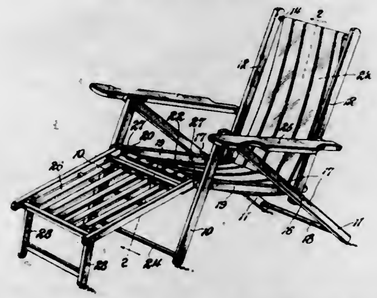
1,947,410

FOLDING CHAIR

Lilley W. Emerson, Derry, N. H., assignor of one-half to Harry A. Freeman, Brooklyn, N. Y.

Original application March 16, 1933, Serial No. 661,149. Divided and this application January 9, 1934. Serial No. 705,960

2 Claims. (Cl. 155—119)



1. In a collapsible chair, a back rest portion and a seat portion including strip members held in spaced relationship by elements including cross pieces at the juncture of the back rest portion and seat portion and the opposite end of each, a strip of fabric continuous between the remote ends of the back rest and seat portions, and forming a bite between two cross pieces at the juncture of the back rest and seat portions, a rod, thicker than the space between the last named cross pieces, and enveloped by the bite.

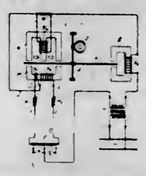
1,947,411

ELECTRICAL INTEGRATING DEVICE

Wilhelm Geyger, Dusseldorf, Germany

Application May 27, 1932, Serial No. 613,933, and in Germany May 25, 1931

9 Claims. (Cl. 171—264)



3. A device for the electrical integration of measured quantities, comprising an alternating current meter fitted with driving and braking magnets, a resistance distance transmitter consisting of an electric resistance and a sliding contact moving thereon, two branch lines connected to said resistance and being invariable as to their total resistance, a transformer having two opposing primary coils, said coils being inserted in said branch lines, a secondary winding and a coil on one of said driving magnets of said alternating current meter, said coil being connected to said secondary winding.

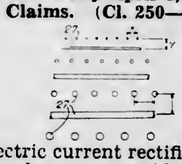
1,947,412

CONTROL GRID STRUCTURE FOR RECTIFIERS

François Hallopeau, Paris, France, Willi Boveri, Mannheim, Germany, and Arthur Gaudenzi, Baden, Switzerland, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland

Application April 26, 1930, Serial No. 447,744, and in Germany April 4, 1929

6 Claims. (Cl. 250—27.5)



1. In an electric current rectifier, the combination of an anode, an arc guide arranged about said anode, and a control grid structure comprising a plurality of rod-like members divided into a plurality of groups supported within the said arc guide in different parallel planes extending transversely to the longitudinal axis of said guide, the respective members of each of said groups being arranged in spaced parallel relation and extending transversely to the members of the next adjacent groups.

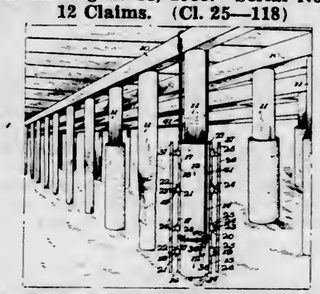
1,947,413

APPARATUS FOR FORMING A COVERING OR SLEEVE OF PLASTIC MATERIAL UPON A WOODEN PILE

Percy D. Hay, Charleston, S. C., assignor to Coastal Contracting Co. Inc., Charleston, S. C., a corporation of South Carolina

Application August 14, 1933. Serial No. 685,107

12 Claims. (Cl. 25—118)



1. Apparatus for forming a covering or sleeve of plastic material upon a wooden pile, comprising a form divided longitudinally into form sections which are adapted to surround the pile, means for detachably connecting the form sections, a bottom member for surrounding the pile and having detachable connections with the form sections, the arrangement being such that the bottom member is held by the form sections against longitudinal movement with relation thereto and freed from the connections with the form sections when such form sections are shifted laterally from the bottom member.

1,947,414

MANUFACTURING COATING COMPOSITION

Adolf Heck, Kansas City, Mo., assignor to Cook Paint & Varnish Company, Kansas City, Mo., a corporation of Delaware

No Drawing. Application January 6, 1931 Serial No. 506,980

17 Claims. (Cl. 134—26)

1. As new compositions of matter having improved solubility, the reaction products of an oxidized drying oil with about equal amounts of

a phenol and with an aldehyde in the presence of an alkaline catalyst, the molecular ratio of the aldehyde to the phenol being less than one and greater than one fourth, the said products being soluble in toluol, xylol and like hydrocarbon oils.

1,947,415
COATING COMPOSITION AND METHOD OF MAKING THE SAME

Adolf Heck, Kansas City, Mo., assignor to Cook Paint & Varnish Company, Kansas City, Mo., a corporation of Delaware

No Drawing. Application January 6, 1931
Serial No. 506,981
10 Claims. (Cl. 134—26)

1. As new compositions of matter, the reaction products, in the presence of an alkaline catalyst, of an oxidized drying oil with about equal amounts of a phenol, with a natural resin and with an aldehyde, the molecular ratio of the aldehyde to the phenol varying from about one to one fourth, the products being soluble in light hydrocarbon oils and in drying oils.

1,947,416
DIENE RESINS AND METHODS OF MAKING THE SAME

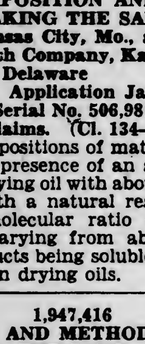
Adolf Heck, Kansas City, Mo., assignor to Cook Paint & Varnish Company, Kansas City, Mo., a corporation of Delaware

No Drawing. Application July 16, 1931
Serial No. 551,293
3 Claims. (Cl. 260—8)

1. As an improvement in the manufacture of resins from phthalic anhydrid, glycerin and fatty acid to form special resins soluble in coal tar hydrocarbons, the improved process which comprises distilling castor oil fatty acids under a reduced pressure of approximately 30 mm. at temperatures of about 260 to 270° C., collecting the distilled fatty acids thus obtained, mixing between 50 and 100 parts of said distilled fatty acids with about 100 parts of phthalic anhydrid and 50 parts of glycerin, heating the mixture to between 180 and 230° C. until the mixture becomes clear continuing the heating until an elastic, light-colored, substantially non-tacky resin is obtained upon cooling and then cooling the mixture to obtain the resin, said resin being soluble in benzene, toluene and like coal tar oils.

1,947,417
ELECTRIC DISCHARGE TUBE

Gilles Holst, Eindhoven, Netherlands
Application February 29, 1932, Serial No. 595,928, and in the Netherlands September 15, 1922
5 Claims. (Cl. 250—27.5)

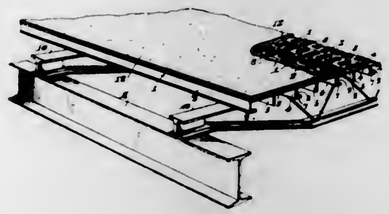


1. An electric discharge tube having an envelope comprising metal and glass members, the metal being chrome iron and forming a substantial part of the envelope and being firmly fused to the glass, at least one surface of which chrome iron member is exposed to the discharge space of the tube.

1,947,418
FLOOR CONSTRUCTION

Julius Kahn, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan

Application September 18, 1931
Serial No. 563,630
2 Claims. (Cl. 72—70)



1. A load carrying structure for floors, roofs, etc. comprising spaced supports, a series of elongated metal supporting members located side by side and extending across the supports, said members comprising top walls and depending flanges along their side margins that rest on the supports and stiffen the top walls between the supports, the top walls having upstanding tie elements struck therefrom, and a continuous body of plastic material covering a plurality of the top walls and extending across the joints between them and having the tie elements embedded therein.

1,947,419
TREATING CELLULOSE ESTERS

Martin Marasco, Parlin, N. J., assignor to Dupont Film Manufacturing Corporation, a corporation of Delaware

No Drawing. Application May 1, 1931
Serial No. 534,437
8 Claims. (Cl. 18—51)

6. The method of rapidly seasoning transparent film base containing cellulose acetate which includes the steps of bathing in methanol and subsequently drying said base under only enough tension to prevent wrinkling during said drying.

1,947,420
CLUTCH MECHANISM

John Mikulasek, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware

Application September 9, 1929. Serial No. 391,167
15 Claims. (Cl. 192—103)

1. A clutch mechanism comprising relatively movable members, means carried by one of said members and for frictional engagement with the other member, pivotal means movable by said other member for moving said first mentioned means to operate said members in unison, and manual means for moving said other member into engagement with said pivotal means, said pivotal

means automatically releasing said frictional



means upon a reduction in the speed of one of said members below normal.

1,947,421
CONNECTING LINK FOR CHAINS

George G. Mize, Indianapolis, Ind., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind., a corporation of Indiana

Application August 1, 1928. Serial No. 296,810
4 Claims. (Cl. 74—254)

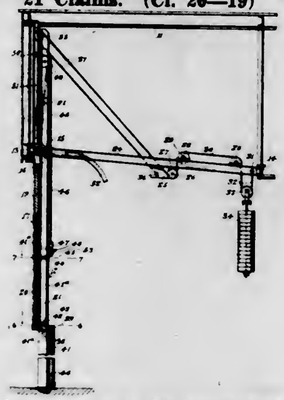


1. A retaining clip for retaining in place the removable side-bar of a chain connecting link, comprising a single piece of wire which when unstressed is of a general U-shape one leg of which is longer than the other, the two legs being provided with out-turned ends and one leg being provided with an offset portion to permit the two legs of the clip to be crossed when in place on the connecting link.

1,947,422
DOOR STRUCTURE AND OPERATING MEANS THEREFOR

David H. Morgan, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan

Application March 28, 1931. Serial No. 526,098
21 Claims. (Cl. 20—19)

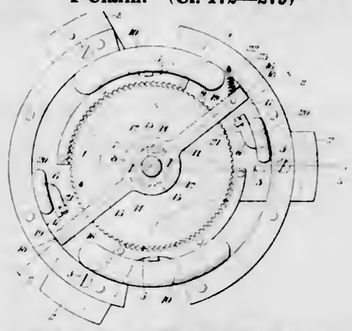


1. In a door structure, the combination with a pivotally mounted upper section, of a lower section slidable upon the upper section in a path substantially parallel thereto, means for swinging the upper section, and means for causing the lower section to slide on the upper section as the latter swings.

1,947,423
SELF-STARTING SYNCHRONOUS MOTOR

James M. Naul, Fanwood, N. J., assignor to Diehl Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application January 7, 1932. Serial No. 585,245
1 Claim. (Cl. 172—279)

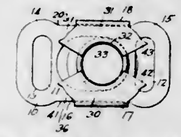


The combination with an alternating current synchronous motor including a stator-core ring having main internal polar projections, an internal starting polar projection, a shaft, and a toothed rotor embraced by the main polar projections, of means for starting such motor including an overrunning clutch connected to the motor-shaft, and a clutch-arm within the range of attraction of said internal starting polar projection.

1,947,424
ADJUSTABLE SLIDE FASTENER

Daniel I. Reiter, New York, N. Y., and George W. Lane, Providence, R. L; said Lane assignor to said Reiter

Application January 5, 1933. Serial No. 650,218
16 Claims. (Cl. 24—77)



2. In a fastener slide, a main slide member having a longitudinal slot therein, an auxiliary slide member arranged on one face of the main slide member and having arms each bent about an edge portion of the main slide member on to the other face thereof and extending inwardly past the adjacent side edge of the slot to partially cover the slot, and a resilient ring arranged between said members and in the longitudinal slot, and confined in the slot by said arms.

1,947,425
BUNG FIXTURE FOR SHEET METAL CONTAINERS

Theodore W. Rieke, Auburn, Ind., assignor to Rieke Metal Products Corporation, a corporation of Indiana

Original application October 1, 1928, Serial No. 309,651, now Patent 1,783,927, December 2, 1930. Divided and this application October 17, 1930. Serial No. 489,425
3 Claims. (Cl. 285—49)

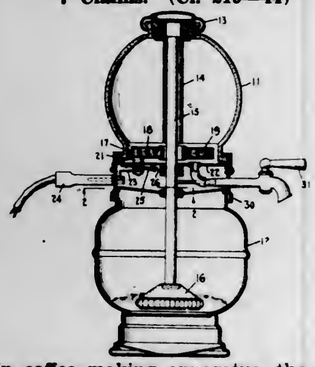
1. In a bung fixture for the bung opening of a sheet metal container, an embossment made in

the sheet forming the container concentric with the bung opening therein to provide a gasket seat and contiguous axial wall having an annular series of radially disposed pockets, a threaded bung ring having an external flange the outer perimeter of which has a series of teeth that pro-



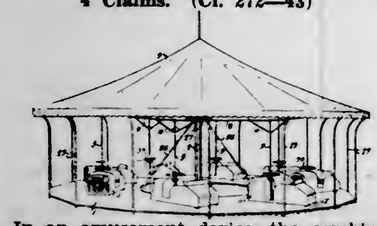
ject respectively into said pockets and bear with sustained outward pressure against said wall when the ring is in place, and a gasket disposed between said flange and adjacent top portion of the embossment to form a tight joint therebetween.

1,947,426
ELECTRICAL COOKING APPARATUS
John E. Smith, Belleville, Ill.
Application December 12, 1931
Serial No. 580,589
7 Claims. (Cl. 219—44)



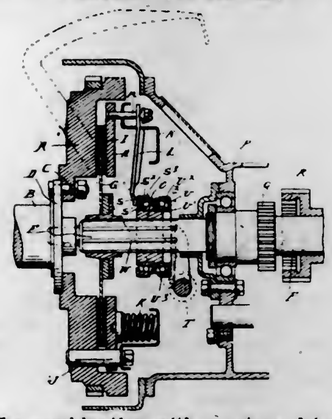
1. In coffee making apparatus, the combination comprising a vessel for containing the brewed coffee, a heating element having a thermal lag factor and mounted in said vessel so as to be out of substantial contact therewith but in complete contact with the contents of said vessel, and a thermostat for controlling the operation of the heating element and mounted so as to maintain a desired temperature for the brewed coffee.

1,947,427
PASSENGER CARRYING AMUSEMENT DEVICE
Albert Spillman, North Tonawanda, N. Y.
Application August 5, 1932. Serial No. 627,629
4 Claims. (Cl. 272—43)



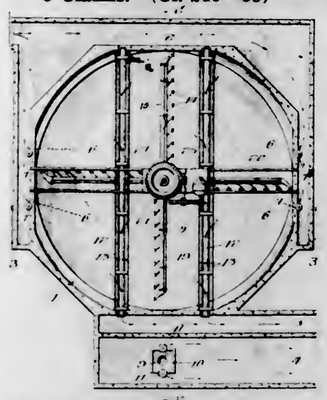
1. In an amusement device, the combination with a stationary circular platform and a rotating structure concentric therewith and mounted above the platform, of a plurality of passenger carrying cars positioned underneath the rotating structure and each pivotally supported at one end by the structure and rolling at the other end upon the platform, and means carried by the structure independently of the cars and adapted to be grasped by the passengers to swing the cars as they rotate.

1,947,428
CLUTCH THROW-OUT BEARING
Horace T. Thomas, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a corporation of Michigan
Application June 20, 1932. Serial No. 618,353
4 Claims. (Cl. 192—13)



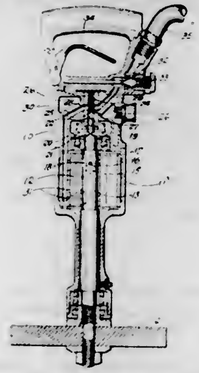
1. The combination with a rotary drive member, a rotary driven member and a friction clutch therebetween, of clutch releasing means including a member mounted on said driven member rotatively fixed but longitudinally slidable thereon, means for actuating said member in a direction to release the clutch and an anti-friction rotary bearing on said member engaging said actuating means and rotative about an axis eccentric to the axis of said driven member whereby said eccentric rotation will cause a relative oscillation between the same and said actuating member and will frictionally retard said driven means when the clutch is released.

1,947,429
SLUDGE REMOVER
Darwin W. Townsend and James Brower, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 4, 1929. Serial No. 411,532
9 Claims. (Cl. 210—55)



1. A separator, comprising a tank wherein separation of sediment-bearing liquid into sludge and clarified liquid takes place, means to insure a relatively dense bed or layer of sludge being deposited uniformly upon the bottom of the tank, and means operating in cycles for withdrawing the accumulated sludge continuously and at a substantially uniform rate from the entire area of the tank bottom, without preliminary disturbance thereof tending to re-disseminate it throughout the body of the liquid in the tank, during each complete cyclic operation thereof, the deposit of the sludge and its removal taking place simultaneously.

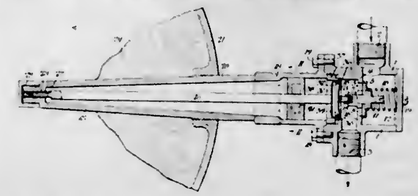
1,947,430
LUBRICATOR
John De Mooy, Cleveland, Ohio
Application September 15, 1930
Serial No. 481,823
12 Claims. (Cl. 184—55)



1. A lubricator for a fluid actuated machine having a rotative element comprising a lubricant injector including a plunger having an aperture therein, means for projecting said injector into the stream of the actuating fluid for injecting a charge of lubricant into said fluid stream during operation of said machine for transmission by the fluid to the moving parts of the machine, and means for retracting said injector from lubricant injecting position, the actuation of said projecting means being dependent upon a predetermined speed of operation of said machine.

1,947,431
THERMOSTATICALLY OPERATIVE VALVE
Robert J. Dougherty, Ambler, Pa., assignor to John Wood Manufacturing Company, Conshohocken, Pa., a corporation of Pennsylvania
Application October 12, 1931. Serial No. 568,325
5 Claims. (Cl. 236—48)

1. In a thermostatically operative valve structure, the combination with a casing having a fluid inlet and a fluid outlet with a valve port between them; of a valve for controlling said port; a spring stressing said valve to close said port; a thermostatic couple for opening said valve against the stress of said spring and including a rod of thermostatically invariable length mounted in said casing in coaxial relation with said valve and a tubular member on said casing of thermostatically variable length, in coaxial relation with said rod; a concavo-convex snap disk in said casing and having its center normally spaced away from said valve to permit the latter to be closed by its spring; an annular ledge in said casing forming a fulcrum for the perimeter of said snap disk in coaxial relation with said valve and rod; a clamp ring for holding the perimeter of said disk on said ledge; a thrust ring mounted to reciprocate in said clamp ring in coaxial relation with said valve, rod, and disk, and having an annular edge bearing against said snap disk in spaced relation with its perimeter; a thrust disk mounted to reciprocate in said clamp



ring and interposed between said rod and thrust ring; and means for axially adjusting said rod in said casing to normally maintain said snap disk under stress of said thrust ring and thrust disk, nearly sufficient to snap it; whereby slight decrement of temperature of said thermostatic couple effects relative movement thereof to snap said disk and open said valve against the stress of its spring.

1,947,432
STABLE VITAMIN PREPARATION
Ralph C. Huston, East Lansing, Mich., and Howard D. Lightbody, Pittsburgh, Pa., assignors to The State Board of Agriculture of the State of Michigan, a corporation of Michigan
No Drawing. Application January 31, 1930
Serial No. 425,070
4 Claims. (Cl. 99—11)

3. A stable vitamin preparation comprising a vitamin containing fish liver oil and a relatively small amount of hydroquinone as a stabilizing agent.

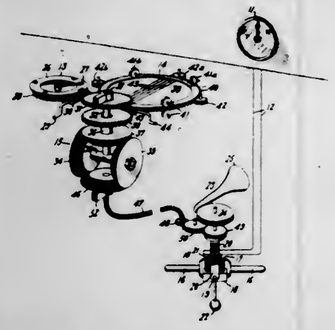
1,947,433
MANUFACTURE OF SOLUBLE COMPOSITIONS AND THEIR USE IN DYEING AND PRINTING
Mordecai Mendoza, West Didsbury, Arthur George Murray, Whitefield, and Herbert Bradley Briggs, South Reddish, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application March 19, 1932, Serial No. 600,072, and in Great Britain March 11, 1931
11 Claims. (Cl. 8—6)

1. A composition for use in dyeing and printing, comprising a salt of the formaldehyde-bisulfite compound of a primary arylamine free from azo groups, an alkali nitrite, and an arylamide of 2:3-hydroxy-naphthoic acid, all in approximately stoichiometric proportions.

1,947,434
NAVIGATIONAL APPARATUS
Thomas R. Rhea, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 20, 1931. Serial No. 531,401
7 Claims. (Cl. 33—224)

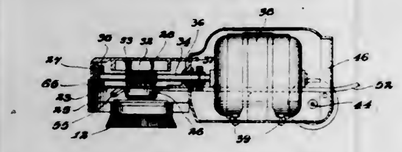
1. Course indicating apparatus for aircraft comprising in combination, an electrical indicating instrument, direction sensitive means having a movably mounted magnetic member for supplying a voltage to said indicating instrument, course setting means for varying the position of

said member to control said voltage and sighting means for further varying the position of said



members to vary said voltage in accordance with the drift of the craft.

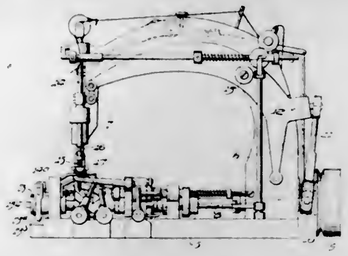
1,947,435
ELECTRIC SCRUBBING, WAXING AND STEEL WOOLING MACHINE
Burton Ira Richmond, St. Paul, Minn., assignor to Adams Wax Products Mfg. Inc., St. Paul, Minn., a corporation of Minnesota
Application May 26, 1930. Serial No. 455,650
2 Claims. (Cl. 15—50)



1. A floor finishing device including, an electric motor, a frame and housing for inclosing said motor, caster wheels on one end of said housing for supporting the same on the floor, an operating finishing head projecting from said housing opposite to said supporting wheels, finishing brush members carried by said head adapted to be rotated in a horizontal plane, shafts for supporting said brushes, bearings for said shafts, gears carried by said shafts in the upper part of said head, a worm gear operable by said motor interposed between said gears operating said brushes, a cover for said gears and worm, and reinforcing and grease directing ribs formed on the inner surface of said cover adapted to cause the grease to work toward said supporting shafts and the center of said gears.

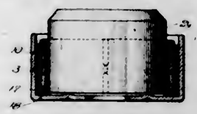
1,947,436
SEWING MACHINE
Julian Guy Russell, North Chattanooga, Tenn., assignor, by mesne assignments, to Carter Brothers, Incorporated, Chattanooga, Tenn., a corporation of Tennessee
Original application December 9, 1929, Serial No. 412,821, and in Great Britain May 27, 1931. Divided and this application September 6, 1932. Serial No. 631,907
4 Claims. (Cl. 112—210)

1. In a tufting machine comprising a base, a power shaft, a reciprocating needle actuated by said shaft, and a fabric feeder intermittently movable transversely of the direction of movement of said needle, means for actuating said fabric feeder, said means comprising a frame mounted to rock on said base on an axis at substantially a right angle to the direction of movement of the needle, an arm supporting the fabric feeder and pivotally connected to said frame, means actuated by said power shaft for imparting vertical movement to said feeder supporting arm, a plurality of cams of different eccentricities



rotatable on a common axis outwardly of one end of said base and actuated by said power shaft and a yoke pivotally connected to said frame on an axis substantially parallel to the direction of movement of the needle and selectively engageable with any one of said cams for varying the length of horizontal movement of said feeder supporting arm.

1,947,437
RHEOSTAT AND THE LIKE
Newton C. Schellenger, Elkhart, Ind., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana
Application October 26, 1931. Serial No. 571,101
6 Claims. (Cl. 201—55)

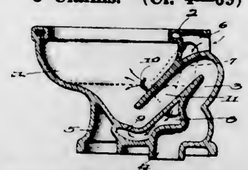


1. A rheostat comprising a cup-like metallic shell, a plurality of corrugations projecting radially outward from said shell, an insulating member lining said shell, a resistance strip slightly longer than the inner perimeter of said insulating lining disposed within said shell and being compressed to cause abutment of its ends against its own arch strength by compression in said shell and corrugations to lock the strip and insulating member in place in the shell, and a contactor pivotally mounted on said shell and engaging said resistance strip.

1,947,438
WOOD FILLER
James F. Walsh, South Orange, N. J., assignor to Celluloid Corporation, a corporation of New Jersey
No Drawing. Application January 11, 1930
Serial No. 420,153
3 Claims. (Cl. 106—37)

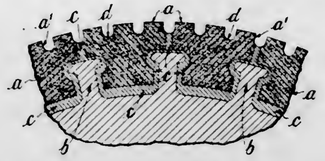
1. Wood filler comprising 100 parts cellulose ester, 35 to 60 parts substantially non-volatile liquid modifier, 35 to 65 parts resin, 250 parts comminuted organic filling material and 600 to 640 parts volatile solvent.

1,947,439
CLOSET BOWL
Raymond E. Crane and David E. Gulick, Ford City, Pa.
Application December 28, 1931
Serial No. 583,490
2 Claims. (Cl. 4—69)



1. In a siphonic closet bowl, the combination with a common water supply chamber, of a rim flush, a substantially horizontal tangentially directed jet located approximately at the water line of the bowl and an upwardly directed ejector jet at the lower part of the up leg of the bowl trap, all simultaneously operated to produce a vortex action in the bowl and a siphonic action in the up and down leg of the bowl trap.

1,947,440
BEATER ROLL
Samuel Milne, Edinburgh, Scotland
Application July 21, 1933, Serial No. 681,495, and in Great Britain February 16, 1932
3 Claims. (Cl. 92—22)



1. In a paper pulp beating engine, refining engine, or the like, a pulp treating element having a peripheral surface of stone-like abrasive material composed of abutting sections, the outer surface of said element being provided with a multiplicity of similarly shaped substantially uniformly spaced longitudinal grooves, said grooves being arranged substanially parallel to the axis of said element.

Patents Nos. 1,947,441 to 1,948,481

THE

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February 20, 1934

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Prints	5—No.	14,599 to No.	14,603, inclusive.
Reissues	7—No.	19,086 to No.	19,092, inclusive.
Designs	95—No.	91,507 to No.	91,601, inclusive.
Patents	1,041—No.	1,947,441 to No.	1,948,481, inclusive.
Total	1,327		

Disclaimers

1,513,139.—*Harlan L. Trumbull*, and *John B. Dickson*, Akron, Ohio. METHOD FOR THE DISPERSION OF GUM INTO A COLLOIDAL SUBSTANCE. Patent dated October 28, 1924. Disclaimer filed January 30, 1934, by the assignee, *The B. F. Goodrich Company*.

Hereby enters the following disclaimer, to wit:

Your petitioner disclaims the inclusion of all colloids or colloidal substances except organic colloids or colloidal substances in each and every one of the claims in said Patent No. 1,513,139.

1,749,536.—*Jay J. Hogan*, Erie, Pa. SWITCH. Patent dated March 4, 1930. Disclaimer filed January 16, 1934, by the assignee, *The Bryant Electric Company*.

Hereby enters his disclaimer to that part of the claim in said specification which is in the following words to wit:

"9. In a switch, the combination of a contact arm closing and opening the switch by its movement; a spring operating the arm to open the switch; a manual means operating the arm to close the switch; two latches locking the arm in closed position; a manually actuated mechanism tripping one latch to open the switch; electrically responsive devices tripping the other latch to open the switch; and means operated upon the opening of the switch through the tripping action of the electrically responsive devices for tripping the first-mentioned latch and re-setting the last-mentioned latch."

1,790,643.—*Stanton U. McGary*, *Walter F. Rogers*, and *Stanley Gill*, Houston, Tex. METALLIC PROTECTIVE COATING. Patent dated February 3, 1931. Disclaimer filed January 20, 1934, by the assignee, *Gulf Research & Development Corporation*.

Therefore disclaims claim 1 of said Letters Patent No. 1,790,643, said claim being in the following words:

"1. A protective covering for an object designed to prevent injury of said object by corrosion comprising a coating of plastic adhesive material covering the surface of the object and a sheet of resistant metal having a thickness greater than .0005" and less than .010" pressed into intimate contact with said coating and held thereto by the adhesive property thereof, said resistant sheet having such inherent flexibility and said adhesive coating having such inherent plasticity as to be capable of relative movement under differential thermal expansion and contraction without separation from each other or from said protected object."

1,822,085.—*William F. Eames*, Wilkinsburg, Pa. SELECTIVE SIGNAL SYSTEM. Patent dated September 8, 1931. Disclaimer filed February 3, 1934, by the assignee, *Westinghouse Electric & Manufacturing Company*.

Hereby enters this disclaimer to claims 8 and 9 which are in the following words, to wit:

"8. In a signaling system for an elevator car operable past a floor, passenger-operated call-registering means at the floor for registering calls for service at said floor, and means operably responsive to the car answering a registered call for cancelling said registered call and for rendering the call-registering means ineffective to register calls until completion of the answer to said registered call.

"9. In a signaling system for an elevator car operable past a floor, passenger-operated call-registering means at the floor for registering calls for service at the said floor, actuable means for cancelling said calls for service, and means operably responsive to the elevator answering a registered call for actuating said cancellation means and maintaining it in its actuated condition for rendering the said call-registering means ineffective to register calls until completion of the answer to said registered call."

Notice

U. S. PATENT OFFICE, *Washington, Feb. 8, 1934.*

The Patent Office is now issuing design cases in approximately two weeks after the date of allowance. All cases allowed by the Examiner of Designs on Fridays will be printed and in the issue two weeks from the following Tuesdays.

In order to carry out this program, it is necessary that assignments that are to affect the issue of design patents should be presented to the Patent Office promptly for record, for unless these assignments are in the Assignment Division at the time that the assignment search is made, it will not be possible to put them on the file. In view of the short time elapsing between the allowance and the issuance of these design patents, it is not possible to bring these files back from the Government Printing Office for any purpose whatever.

RICHARD SPENCER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business February 3, 1934

(Total number of applications awaiting action, exclusive Trade-Mark Division, 40,899; Trade-Mark Division, 1,094. Oldest new case, September 12, 1933; oldest amended, September 9, 1933. The dates given are 1933 except where † indicates 1934.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Oct. 16	Oct. 17	432
6208	2. HERRMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Oct. 10	Oct. 11	695
4003	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Nov. 3	Nov. 3	653
7063	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Oct. 26	Oct. 25	381
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Nov. 3	Nov. 6	472
4816C	6. LEWERS, A. M., Carbon Chemistry	Oct. 2	Oct. 12	913
5725	7. JARBOE, C. G., Optics; Photography	Oct. 27	Oct. 27	812
3267	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Dec. 4	Dec. 7	272
4424	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Dec. 1	Dec. 5	412
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Sept. 23	Oct. 24	509
5077B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Oct. 6	Oct. 5	582
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	Oct. 18	Oct. 18	509
5696	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 29	Nov. 28	456
5697	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Dec. 6	Dec. 4	330
4697	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 22	Oct. 22	925
5412	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 22	Nov. 22	439
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Oct. 11	Oct. 7	817
4412	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 7	Dec. 5	282
4406	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Oct. 5	Oct. 3	1,007
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Oct. 20	Oct. 14	189
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Oct. 4	Oct. 4	835
5724	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Oct. 5	Oct. 5	900
7902	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Oct. 3	Oct. 4	519
5263	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 7	Nov. 13	498
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Oct. 4	Oct. 4	794
5893	26. ADAMS, W. M., Electricity, Generation; Motive Power	Dec. 11	Dec. 11	246
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Nov. 4	Nov. 4	452
4628	28. BENSON, A. R., Internal-Combustion Engines	Oct. 5	Oct. 5	524
5262	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Nov. 28	Dec. 1	241
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 3	Nov. 3	545
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Oct. 4	Oct. 3	1,016
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 16	Nov. 17	392
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Oct. 14	Oct. 16	731
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Oct. 3	Oct. 3	876
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Oct. 11	Oct. 16	685
7624	36. McFAYDEN, A. D., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Sept. 12	Sept. 9	1,203
5696B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 10	Nov. 8	403
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Walls; Hydraulic Cement and Lime; Roads and Pavements.	Oct. 3	Oct. 7	706
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Oct. 20	Oct. 27	647
7680	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Oct. 17	Oct. 19	950
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Oct. 21	Oct. 23	434
4882	42. CUTTING, H. O., Electric Signaling	Oct. 3	Sept. 27	821
4696B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Oct. 7	Oct. 7	658
4067B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Oct. 3	Oct. 3	731
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Sept. 21	Sept. 28	404
3613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Nov. 15	Nov. 15	332
7600	47. BARKER, H., Clutches; Brakes; Motors	Oct. 9	Oct. 9	1,002
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Oct. 14	Oct. 11	609
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Oct. 3	Oct. 3	669
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Oct. 9	Oct. 9	956
3628	51. BACKUS, C. D., Radiant Energy	Nov. 8	Nov. 8	697
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Nov. 7	Nov. 24	472
3697	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Nov. 20	Nov. 20	401
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Oct. 18	Oct. 17	795
3887	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	Sept. 21	Sept. 21	756
	Designs	†Jan. 5	†Jan. 12	344
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Oct. 9	Oct. 9	739
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Nov. 3	Nov. 6	293
5905	58. DOWELL, E. F., Abrading	Dec. 1	Dec. 4	266
4709	59. RICHARD, V. L., Chemistry; Fertilizers	Oct. 15	Oct. 16	602
5906	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Oct. 3	Oct. 3	819
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus	Oct. 20	Oct. 24	393
3678	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Oct. 4	Oct. 9	1,072
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Oct. 10	Oct. 11	706
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Nov. 4	Nov. 3	901
5824	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Oct. 4	Oct. 4	773
3099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—Trade-Marks	†Jan. 5	†Jan. 18	913
	Labels and Prints	†Jan. 3	†Jan. 20	181

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ARNOLD

No. 3,170. Decided December 28, 1933

PATENTABILITY—SUSPENDERS.

Certain claims for suspenders *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Vernon E. Hodges and *J. Preston Swecker* for Arnold.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

BLAND, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office, affirming that of the Examiner in refusing to allow, for want of patentability over the prior art, claims 1, 2, 5, 7, 12, 13, 14, and 15 of appellant's application for a patent relating to suspenders.

Claims 3, 4, 6, and 11, which were allowed by the Examiner, are drawn to cover certain modification features in the application and also an additional cross strip, which may be used with the suspenders, if desired.

Claim 1 is illustrative of the claims on appeal, and follows:

1. In suspenders, two shoulder straps; each having garment supporting buttonholes at one end; a single series of step adjusting openings in the strap, a therein freely swinging hook loop with an open loop; a thereon sliding one piece reversible suspender end having, at each of its free ends, varisble button boles which support a plurality of garments, and which reduce the wearing out of the suspender end.

The references relied upon are: Hamburger, 360,772, April 5, 1887; Krouse et al., 487,149, November 29, 1892; Arnold (German), 31,626 of 1884.

Appellant's application relates to suspenders, and discloses a pair of shoulder straps integrally united where they join on the back, and having on each of the shorter ends two garment-supporting buttonholes, and at the other ends a series of step-adjusting holes or openings. A hook loop with a horizontal base and with an opening in said loop is attached to swing freely and selectively in one of the aforementioned holes. A one-piece flat strap, attached to move slidingly on the base of the hook loop is provided at each of the front ends of the suspenders, and on each end of each of said one-piece flat straps are two garment-supporting buttonholes. A modification of the metal loop is shown in appellant's separate drawings. An additional feature, the use of which is optional, is shown, consisting of an adjusting strap, which may be worn on the front part of the body, and connecting one of said metal loops with the other so as to prevent the shoulder straps from slipping off the shoulder.

The structure of appellant's suspenders is very similar to that disclosed in the German patent to Arnold. Corresponding to the six step-adjusting holes for the insertion of the hook loop in applicant's suspender, we find in Arnold a series of seven step-adjusting openings in each shoulder strap, which holes are formed by making for each step four parallel slits in the strap which slits run parallel to the length of the shoulder strap. In the Arnold suspenders, the adjusting hook is inserted into the strap by sidewise threading the hook under and over certain of the slits. The openings in both disclosures, however, are to receive the hook loop, and are so arranged as to shorten or lengthen the main suspender straps, and are substantially in the same location on the straps.

Appellant urges that a greater flexibility is obtained by his construction than can be obtained by the Arnold device. The said type of hook connection employed by appellant, however, is old in Hamburger, in which there is a series of single openings which selectively receive a hook to which is attached a link chain carrying the garment-supporting attachment.

The integral structure of the shoulder straps at the point of crossing is shown in Krouse et al.

Claims 1, 5, 7, and 13 were accordingly rejected on Arnold in view of Hamburger. Claims 2 and 15 were rejected on the ground of aggregation, all features of the same being shown in the references, and there being no mutual cooperation between the parts. Claims 12 and 14 were rejected as being fully met by the structure in Arnold.

The Board and the Examiner regarded the allowed claims sufficient to cover any advance that applicant had made in the art. We concur in the views expressed, and the conclusion reached by the Board of Appeals in its affirmance of the Examiner's rejection of the appealed claims, and its decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE WITHERHEAD AND HANDY

No. 3,187. Decided December 28, 1933

PATENTABILITY—ATTACHMENT FOR CHRISTMAS TREE LIGHT SETS.

Claims for an attachment for Christmas tree light sets *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

GARRETT, *J.*, and LENROOT, *J.*, dissenting.

Mr. Thomas Howe for Witherhead and Handy.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

BLAND, *J.*:

The Examiner in the United States Patent Office denied all of appellants' claims in their application for a patent relating to Christmas tree lighting, on the ground that there was no invention therein over that shown in the prior art. The Board of Appeals affirmed the Examiner, and appeal has been taken to this court.

The application relates to an attachment for use in electrically lighting Christmas trees. The Board

of Appeals, in referring to the application, described the alleged invention as follows:

> * * * Such sets as ordinarily supplied comprise eight sockets of small size containing lamps which are connected in series, the two terminals of the series being connected to a plug which will fit an ordinary lighting fixture. In decorating a Christmas tree with such a set it frequently happens that after disposing the lights about a tree it will be found that some portion or portions are not receiving the proper amount of illumination. Under these circumstances it is admitted it has been customary to cut the wires and connect in an additional light or lights with sufficient wire so that they may be disposed in the desired location. To avoid this cutting and splicing of wires appellants propose to provide a second series set of lights similar to the first but containing a lesser number of lights and provided terminally with a socket adapted to replace one of the lamps on the original series. By this expedient the extension or attachment may replace any lamp in the original set and extend the illumination to points in proximity to such lamp. It is urged that because of the excess number of lights in the system after the application of such an extension there is considerably less likelihood of a lamp's burning out. * * *

The appellants claim that their alleged invention is so constructed that it may be attached to any one of the miniature lamp sockets in any set, and that when so connected the lights will be arranged in series and may be so placed on the Christmas tree as to be of most advantage; that the use of their device prevents burning out of lamps, since the placing of more lights in the series so divides the electric current as to lessen the amount of current in each lamp. It is claimed by appellants that in the prior art each lamp was necessary to complete the circuit, and that the failure of one of the lights to function broke the circuit and occasioned much loss of time in locating the defect.

Claims 5 to 9, inclusive, being all the claims, were rejected and are now before us for consideration. We think claim 5 is illustrative and is as follows:

> 5. An attachment for Christmas tree lighting sets of the type involving a standard connector plug, a conductor connected to the plug and a plurality of miniature bulb-receiving sockets connected in series with the conductor, said attachment including a plug adapted for removable electrical connection with any one of said receiving sockets, a conductor connected with the plug, and a plurality of miniature bulb sockets in series with the last named conductor, the bulb sockets of the attachment and of the Christmas tree lighting set being designed for the reception of similar lamps whereby the attachment provides for an extension of the lighting area of any Christmas tree set in any direction from any one socket of such Christmas tree set, the connection of the attachment to any one socket of the set providing for the connection in series of a number of lighting bulbs in excess of that ordinarily employed with the set to thereby reduce the individual voltage on the employed bulbs.

The references relied upon are: Eckstein, 1,622,708, March 29, 1927; Eckstein et al., 1,722,737, July 30, 1929; Kirschstein, 1,728,938, September 24, 1929; Seghers, 1,758,982, May 20, 1930.

In affirming the examiner, the Board of Appeals had the following to say:

> * * * Appellants' extension no doubt increases the utility of the usual Christmas tree lighting set and enables a more uniform distribution of light to be effected. If the reduction of voltage on the individual lights is desirable rather than merely incidental, that could be readily accomplished by adding sockets to the original outfit.
>
> The Kirschstein patent shows it old to provide illuminating outfits of the type here involved with special sockets into which an additional series of lights may be plugged. The same result is effected in Eckstein, 1,722,737 by providing one special socket into which an additional series may be plugged. Eckstein 1,622,708 provides sockets which are distinct from the lamp sockets. The Seghers patent shows an organization which permits connection in series two lighting outfits.
>
> It is a common expedient in house-lighting and other similar systems to provide extensions which may be plugged into any lamp socket for the purpose of making illumination available in otherwise poorly illuminated locations. Appellants' attachment is of this general sort. We see nothing inventive in applying this common practice to a system designed particularly for Christmas tree illumination. We are not impressed by the fact that the voltage on the various lights is reduced by the expedient. In our opinion this would ordinarily deter one from adopting it in the particular situation involved. If any considerable movement of lights were carried by the extension, or if more than one extension were used, as might frequently be desirable, the brilliance of the lamps would be reduced beyond a practical value.

Appellants have argued here, at great length, that none of the references shows their arrangement of lights, nor do any of them provide attachments which will accomplish the results which may be accomplished by their alleged invention.

An examination of the references shows this is true, and that appellants' device saves time, inasmuch as it obviates the necessity of cutting wires and making additional connections, or resorting to other expedients where lamps burn out.

We agree, however, with the Board that, in view of the prior art, it did not require invention to accomplish what appellants have accomplished, and that what appellants here claim as inventive is within the skill of the mechanic.

The decision of the Board of Appeals is affirmed.

Affirmed.

GARRETT and LENROOT, *J. J.*, dissent.

U. S. Court of Customs and Patent Appeals

IN RE RANDELL

No. 3,169. Decided December 23, 1933

1. CLAIMS—MULTIPLICITY—INVENTION COVERED BY ALLOWED CLAIMS.

Where claims including a certain feature and fully protecting the invention applicant has made over the prior art had been allowed, "the failure to allow a multiplicity of claims for the same feature works no hardship upon him, nor deprives him of any legal right to which he was entitled. Even were it found that some of the claims disallowed did embrace this feature clearly and distinctly and that the Board of Appeals erred in holding otherwise, it would not be reversible error, his invention in this respect being already fully protected."

2. PATENTABILITY—PROCESS OF MEASURING FLUID FLOW IN OPEN OR NONPRESSURE CHANNELS.

Certain claims for a process of measuring fluid flow in open or nonpressure channels *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Ralph R. Randell, pro se.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.:*

Appellant's application relates to "Improvements in art of measuring fluid flow in open or nonpressure channels." Five claims stand allowed, one of these apparently being allowed by the Examiner and four by the Board of Appeals of the United States Patent Office, the Examiner's decision as to these four being reversed by the latter tribunal. The Board affirmed the Examiner's rejection of claims 1, 2, 5, 6, 7, 8, 9, 11, 12, and 14, and appellant here seeks review of the Board's decision so rejecting them.

It is proper to state that appellant, who prepared his own brief and acted as attorney for himself in the proceedings before this court, says, in a special communication filed before the hearing, that he concedes "reasonable room for difference of opinion" relative to claims "such as claims 1 or 2," which concession was reiterated by him in his short oral statement at the hearing before us, the concession being "because so general" in character.

Of the ten claims rejected and here upon appeal, appellant does not select any particular one or ones as being typical. The Board of Appeals quoted Nos. 1 and 13 of the application, the former being for the apparatus and the latter being for the method employed. No. 13 stands allowed. No. 14, which was rejected, is also a method claim. We, therefore, quote it with claims Nos. 1 and 6:

> 1. In an apparatus for approximately determining fluid flow, the combination of a main open channel, a secondary channel connecting two places in the main channel, means for gradually changing the hydraulic characteristics of flow in the main channel between said places approximately in a stream-line manner so as to cause a flow in the secondary channel approximately proportional to the flow in the main channel and at the same time to conserve substantially without unnecessary loss the mechanical energy of the flowing fluid, and a meter actuated by the flow in the secondary channel.
>
> 6. In an apparatus for approximately determining fluid flow, the combination of a main open channel the size of a part of which differs from that of the adjacent parts, a secondary channel connecting two places in the main channel one of which is at the cross-section containing such part so that the difference of size causes a flow in the secondary channel approximately proportional to the flow in the main channel, and a meter actuated by the flow in the secondary channel.
>
> 14. In open channel proportional fluid-metering, the method of maintaining proportionality between the flows through the measured and the unmeasured channels which consists in maintaining a free fluid surface in the measured channel at its control section for substantially all conditions of flow within the range to be metered.

The references relied upon are: Tilden, 783,486, February 28, 1905; Tuttle, 816,280, March 27, 1906; Englebright, 1,080,052, December 2, 1913; and Stevens, 1,418,032, May 30, 1922.

The application may be generally described as relating to the measurement of the flow of fluid, water being the most common example, in open or nonpressure channels. By means of appellant's device and plan, the main channel is provided with a constricted portion and a by-pass, the latter having a meter placed therein which is connected with the constricted portion in such a manner as that the meter can be calibrated to give the flow in the main channel.

The Examiner gives a detailed description of the operation in his statement which it is not deemed necessary to repeat here. The calibration of the meter to indicate the flow in the main channel is made possible, according to the opinion of the Board of Appeals, by the arrangement whereby the flow in the secondary channel, or by-pass, is always approximately a predetermined proportion of the flow in the main channel.

The principal reference is Stevens, the other references being cited, as stated in the brief of the Solicitor for the Patent Office—

> merely as examples of meters located in by-passes around constrictions to give a reading proportional to the flow in the main channel.

The devices in Tilden and Tuttle seem to be for use only in pipes, while that in Englebright is for use in open top channels, but teaches the proportional dividing of the water, the smaller proportion to flow through a pipe and meter placed therein.

The patent to Stevens is stated in the specification thereof to be—

> directed broadly to a water meter for measuring the volume of flow in an open channel or flume, such as used for irrigation, water power, sewage, and so forth.

A constricted area is formed in the channel or flume by depressing a cover member placed thereover, which increases the velocity of the water. Two members, or features, designated as "wells" are provided, one of which is connected to the flume "just above the meter of constricted area" and the other connected thereto "at the constricted area or throat." It is stated that:

> The difference in the water levels between the open flume just above the meter and that in the well at the throat is an index of the velocity of the water passing the throat.

In connection with the wells there are devices such as floats, cables, and guide pulleys which operate a recording device.

In brief, the appealed claims were rejected on the ground that there would be no invention involved in connecting the two wells of Stevens by means of a pipe containing a meter as disclosed by Englebright, Tilden, or Tuttle, and it was held by the Board of Appeals, in substance, that even if the limitations relied upon by appellant to differentiate from the prior art were construed to exist in his appealed claims, they are all amply covered by the claims which were allowed him.

Appellant in his brief argues that there are two fundamental respects in which the references fail to anticipate his invention.

The first of these is, in substance, that the main channels in the prior art are not open but closed and that, therefore, they are—

> inherently incapable of functioning, as appellant's, to pass floating débris without clogging and interfering with the flow of the water, and stoppage or impairment of the operation of the measuring device itself.

Appellant insists that his claims—

> specify with sufficient clearness and definiteness an open channel adapted to pass floating débris.

[1] As we understand the decision of the Board of Appeals, that tribunal agreed with appellant upon this contention, insofar as allowed claims 3, 4, 10, and 13 were concerned, and allowed them for that reason. It would seem that as to this feature, therefore, appellant is fully protected by such allowance, and the failure to allow a multiplicity of claims for the same feature works no hardship upon him, nor deprives him of any legal right to which he was entitled. Even were it found that some of the claims disallowed did embrace this feature clearly and distinctly and that the Board of Appeals erred in holding otherwise, it would not be reversible error, his invention in this respect being already fully protected. *In re Pondelicek*, 18 C. C. P. A. (Patents) 1008, 47 F.(2d) 353, 408 O. G. 591; *In re Einstein*, 18 C. C. P. A. (Patents) 885, 46 F.(2d) 373, 406 O. G. 287.

The second claimed fundamental difference between the prior art and appellant's claims is alleged by him to lie—

> in the control-section which controls the flow through the by-pass channel so as to keep it proportional to the total flow to be measured.

The Board of Appeals did not specifically discuss any of the contentions relative to the particular structure of appellant's control-section but states that—

> it is the Examiner's view that it is patentably immaterial whether the stream be constricted from the sides and bottom or from the top,

and, we assume, agreed therewith.

[2] Careful consideration has been given to appellant's argument on this point and the rejected claims have been carefully scrutinized and analyzed in connection with the allowed claims, as was necessary in this case, with this argument in mind. We fail to find in the rejected claims any elements of structure designated which, in our opinion, differentiates from the prior art in any manner not fully covered by such designations as appear in the allowed claims. It seems to us that the allowed claims cover all the invention which appellant discloses, and we find no reversible error in the rejection of the claims brought here for review.

After the Board had rendered its decision in the case appellant filed a request for reconsideration of rejected claims 6, 9, 11, 12, and 14, and sought to amend same "so as to clearly specify strictly *open* channels" arguing that in the Board's decision the effectiveness of the language of said claims to so specify had been for the first time questioned. Apparently, it was insisted that the Board's expressions upon that element of the stated claims constituted a new ground of rejection.

The Board, holding that it was not a new ground of rejection, for the reasons by it stated, "entitling applicant to continue the prosecution of the case," declined to recommend entry and allowance of the proposed claims, citing *ex parte Moorse*, 1933 C. D. 13.

Appellant's tenth reason of appeal alleges this refusal to have been error.

Under the facts of this case we do not think there was any error in this action of the Board, nor any violation of rule 139 of the Patent Office. The expressions in the original decision of the Board we regard as being sufficient to disclose that this was not a ground of rejection advanced for the first time by it.

It may be added that, even had the amendment been granted as to the feature sought, that feature seems to be fully covered in the allowed claims, and no additional protection would result to appellant from a grant of matter already cared for.

The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,223,659, W. S. Barnickel, Treatment of crude oil, filed Dec. 12, 1933, D. C., W. D. Okla. (Oklahoma City), Doc. E 1565, *The Tretolite Co.* v. *Indian Territory Illuminating Oil Co.*

1,231,764, F. Lowenstein, Telephone relay; 1,618,017, same, Wireless telegraph apparatus; 1,239,852, F. K. Vreeland, Receiver of electrical impulses; 1,544,081, same, Transmitting intelligence by radiant energy; 1,103,475, H. D. Arnold, Vacuum tube circuit; 1,465,332, same, Vacuum tube amplifier; 1,403,932, R. H. Wilson, Electron discharge device; 1,573,374, P. A. Chamberlain, Radio condenser; 1,702,833, W. S. Lemmon, Electrical condenser; 1,811,095, H. J. Round, Thermionic amplifier and detector; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation; Re. 18,916, J. G. Aceves, Supply circuit for radio sets, filed Dec. 13, 1933, D. C., E. D. N. Y., Doc. E 7142, *Radio Corp. of America et al.* v. *Powrad, Inc.*

1,231,764. (See 1,239,852.)

1,234,137, J. S. Copeland, Back pedaling brake, D. C., N. D. Ohio, E. Div., Doc. E 4391, *The New Departure Mfg. Co.* v. *The Musselman Hub-Brake Co. et al.* Dismissed Dec. 11, 1933.

1,237,850, W. Wills, Adjustable chair, D. C., W. D. Mich., S. Div., Doc. E 2639, *American Seating Co.* v. *Ideal Seating Co.* Dismissed on plaintiff's motion Dec. 11, 1933.

1,239,852. (See 1,231,764.)

1,239,852, F. K. Vreeland, Receiver of electrical impulses; 1,544,081, same, Transmitting intelligence by radiant energy; 1,573,374, P. A. Chamberlain, Radio condenser; 1,702,833, W. S. Lemmon, Electrical condenser; 1,811,095, H. J. Round, Thermionic amplifier and detector; Re. 18,916, J. G. Aceves, Supply circuit for radio; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation; 1,618,017, F. Lowenstein, Wireless telegraph apparatus; 1,231,764, same, Telephone relay; 1,403,932, R. H. Wilson, Electron discharge device; 1,465,332, H. D. Arnold, Vacuum tube amplifier; 1,896,780, F. B. Llewellyn, Modulating device; 1,507,016, L. de Forest, Radiosignaling system; 1,507,017, same, Wireless telegraph and telephone system, filed Dec. 12, 1933, D. C., E. D. Mich. (Detroit), Doc. 6182, *Radio Corp. of America et al.* v. *Detrola Radio Corp. et al.*

1,251,377 (*a*), A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,297,188, I. Langmuir, System for amplifying variable currents, filed Dec. 12, 1933, D. C., E. D. Mich. (Detroit), Doc. 6181, *General Electric Co.* v. *Detrola Radio Corp. et al.*

1,251,377 (*b*), A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,297,188, I. Langmuir, System for amplifying variable currents; 1,728,879, Rice & Kellogg, Amplifying system; 1,820,809, E. W. Kellogg, Electrical system, filed Dec. 13, 1933, D. C., E. D. N. Y., Doc. E 7141, *General Electric Co.* v. *Powrad, Inc.*

1,271,529. (See 1,855,168.)

1,297,188. (See 1,251,377 (*a*) and (*b*).)

1,315,585, C. Weizman, Production of acetone and alcohol by bacteriological process, filed Nov. 6, 1933, D. C., E. D. Pa., Doc. 7955, *Guaranty Trust Co. of New York et al* v. *Publicker Commercial Alcohol Co.*

1,321,150, H. C. Root, Controlling valve for vacuum operated power means, D. C., S. D. N. Y., Doc. E 70/281, *Bragg-Kliesrath Corp.* v. *Fink, Dumont & White, Inc.* Dismissed (notice Dec. 14, 1933).

1,378,604. (See 1,721,663.)

1,392,197, H. W. Morgan, Sewage treatment, filed Nov. 10, 1933, D. C., E. D. Pa., Doc. 7959, *The Dorr Co., Inc.*, v. *Link-Belt Co.*

1,399,561, Imhoff & Blunk, Process of treating sludge, filed Nov. 10, 1933, D. C., E. D. Pa., Doc. 7965, *The Dorr Co., Inc.*, v. *Link-Belt Co.*

1,403,475. (See 1,231,764.)

1,403,932. (See 1,231,764 and 1,239,852.)

1,423,956, Mitchell & White, Tipless incandescent lamp, filed Dec 13, 1933, D. C., E. D. N. Y., Doc. E 7143, *General Electric Co.* v. *Ampleo Electronic Products, Inc., et al.* Doc. E 7144, *General Electric Co.* v. *H. C. Bohack Co., Inc.* Same, D. C., S. D. N. Y., Doc. E 77/62, *General Electric Co.* v. *Continental Theatre Accessories, Inc.*

1,454,616, E. E. Ayres, jr., Process for resolving emulsions, filed Dec. 12, 1933, D. C., W. D. Okla. (Oklahoma City), Doc. E 1566, *The Tretolite Co.* v. *Indian Territory Illuminating Oil Co.*

1,465,332. (See 1,231,764 and 1,239,852.)

1,468,601, M. Loughead, Hose fitting; 1,525,942, same, Fluid operated brake system; 1,847,402, same, Brake mechanism; 1,740,728, B. S. Floraday, Fluid operated brake system; 1,758,671, Loughead & Loweke, Pressure mechanism for brake system, D. C., E. D. N. Y., Doc. E 7024, *Hydraulic Brake Co.* v. *H. Krieger & Son, Inc.* Decree for plaintiff Dec. 14, 1933.

1,507,016. (See 1,239,852.) 1,507,017. (See 1,239,852.)

1,525,942. (See 1,468,601.)

1,544,081. (See 1,231,764 and 1,239,852.)

1,573,374. (See 1,239,852 and 1,231,764.)

1,596,590, M. de Groote, Process for breaking petroleum emulsions, filed Dec. 12, 1933, D. C., W. D. Okla. (Oklahoma City), Doc. E 1567, *The Tretolite Co.* v. *Indian Territory Illuminating Oil Co.*

1,618,017. (See 1,231,764 and 1,239,852.)

1,618,417. Feeney & Godoy, Fire preventing apparatus for motion picture projecting machines, filed Oct. 11, 1933, D. C., E. D. Pa., Doc. 7923, *Sentry Safety Control Corp.* v. *Chestnut Street Theatre Corp.*

1,630,195, M. Margolith, Vending machine; 1,801,100, J. F. Meyer, Delivery chute for vending machines; 1,861,384, C. Fleischer, Coin controlled switch, filed Dec. 13, 1933, D. C., E. D. Pa., Doc. 7987, *J. F. Meyer* v. *J. J. Wanisko et al.*

1,702,833. (See 1,231,764 and 1,239,852.)

1,716,424, E. Conti, Tube forming machine, D. C., S. D. N. Y., Doc. E 51/212, *Herz Straw Co., Inc.*, v. *The Garr Mfg. Corp.* Dismissed without prejudice (notice Dec. 13, 1933).

1,721,663, A. Holzhauer, jr., Heating attachment for windshields; 1,378,604, J. W. Murphy, Condensation preventing device; Re. 17,821, H. H. Steinman, Anti-frost device for windows, filed Dec. 16, 1933, D. C. Conn. (New Haven), Doc. E 2327, *Holzhauer Products Corp.* v. *Casco Products Corp.*

1,728,879. (See 1,251,377 (*b*).)

1,740,728. (See 1,468,601.) 1,758,671. (See 1,468,601.)

1,801,100. (See 1,630,195.)

1,811,095. (See 1,231,764 and 1,239,852.)

1,820,809. (See 1,251,377 (*b*).)

1,821,902, W. A. Baum, Manometer, filed Dec. 4, 1933, D. C., E. D. Pa., Doc. 7979, *W. A. Baum & Co.* v. *Taylor Instrument Co.*

1,830,768, I. M. Rod, Art of making garments, filed Oct. 20, 1933, D. C., E. D. Pa., Doc. 7933, *Rokap Corp.* v. *C. H. Liebman et al.* Doc. 7935, *Rokap Corp.* v. *I. R. Swartz.*

1,847,402. (See 1,468,601.)

1,855,168, C. L. Farrand, Loudspeaker; 1,271,529, M. C. Hopkins, Acoustic device, filed Sept. 21, 1933, D. C., E. D. Pa., Doc. 7881, *Lektophone Corp.* v. *Philadelphia Storage Battery Co. et al.*

1,861,384. (See 1,630,195.) 1,864,265. (See Re. 18,949.)

1,868,440, E. A. Arp, Boring machine and method; 1,906,241, same, Method and apparatus for pre-determining the size of reborded cylinders; Re. 18,832, same, Tool attachment device, filed Oct. 18, 1933, D. C., E. D. Pa., Doc. 7929, *Van Norman Machine Tool Co.* v. *Gaul, Derr & Shearer Co.*

1,892,648, S. I. Bousman, Sedimentation device, filed Nov. 10, 1933, D. C., E. D. Pa., Doc. 7961, *The Dorr Co., Inc.*, v. *Link-Belt Co.*

1,906,241. (See 1,868,440.) 1,896,780. (See 1,239,852.)

1,909,763, Harlow & Everngam, Method of waterproofing masonry, filed Dec. 15, 1933, D. C., S. D. N. Y., Doc. E 77/65, *A. C. Horn Sales Corp.* v. *H. J. Liebmann (Superior Waterproofing Co.).* Doc. E 77/66, *A. C. Horn Sales Corp.* v. *A. Serzner.* Same, filed Dec. 19, 1933, D. C., S. D. N. Y., Doc. E 77/74, *A. C. Horn Sales Corp.* v. *Davis-Kennedy Corp.*

1,920,162, Amy & King, Radio Aerial attachment, filed Sept. 26, 1933, D. C., E. D. Pa., Doc. 7887, *Amy, Aceves & King, Inc.*, v. *Snyder, Inc.*

Re. 16,082, A. Madson, Shoe and method of making same, D. C., E. D. Mo. (St. Louis), Doc. 9048, *Norway Welt Patents Trust et al.* v. *International Shoe Co.* Claims 5, 6 and 7 held invalid; bill dismissed (notice Dec. 12, 1933).

Re. 17,821. (See 1,721,663.)

Re. 18,301, J. Peebles, Apparatus for cleaning sand filter beds and the like, filed Nov. 10, 1933, D. C., E. D. Pa., Doc. 7963, *The Dorr Co., Inc.*, v. *Link-Belt Co.*

Re. 18,579. (See 1,231,764 and 1,239,852.)

Re. 18,593, A. R. Locke, Selective circuit system and remote control, filed Dec. 13, 1933, D. C. Mo. (Kansas City), Doc. 2427, *Hub Electric Co., et al.* v. *F. Adam Electric Co.*

Re. 18,832. (See 1,868,440.)

Re. 18,916. (See 1,231,764 and 1,239,852.)

Re. 18,949, W. H. Ve Relle, Tie, filed Oct. 20, 1933, D. C., E. D. Pa., Doc. 7931, *W. H. Ve Relle* v. *P. Rose, et al.* (*The Specialty Neckwear Co.*).

Changes in Classification

Order No. 3,261, January 30, 1934, directs:

In *class 62, Refrigeration,* (Division 44), establish the following subclass and definition:

Processes
Liquefaction of gases
175.5 Separation.

175.5. PROCESSES, LIQUEFACTION OF GASES, SEPARATION. Processes for separating gaseous mixtures in which one or more of the gases of the mixture are liquefied during the course of separation.

The patents contained in this subclass have been taken from class 183, Gas Separation, subclass 115.

In *class 183, Gas Separation,* (Division 32), modify the definition of subclass 115, by adding thereto: *not involving a step of liquefaction of one or more of the gases,* and the following note:

Note.—See class 62, REFRIGERATION, subclasses 175 and 175.5.

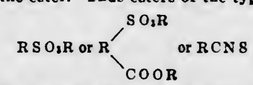
In *class 122, Liquid Heaters and Vaporizers,* (Division 46), change the definition of subclass 31 to read:

Limited to boilers in which the fluid to be heated is heated by the injection of a hot fluid.

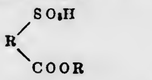
In *class 260, Chemistry, Carbon Compounds,* (Division 6), establish the following subclasses and definitions:

Esters
99.10 Sulphur containing acids
99.11 Dithio acids.
99.12 Sulphuric acid,
99.20 Phosphorus containing acids,
99.30 Nitriles,
99.40 Hydroaromatic acids.

99.10. ESTERS, SULPHUR CONTAINING ACIDS. Esters which contain sulphur in the acid radical entering into the ester. Thus esters of the type



where R is any ester-forming group, will be found here, but those of the type



will be found with the carboxylate ester.

99.11. ESTERS, SULPHUR CONTAINING ACIDS, DITHIO ACIDS. Esters containing two S atoms in the acid radical, such as esters of the xanthate or dithio-carbamate types.

99.12. ESTERS, SULPHUR CONTAINING ACIDS, SULPHURIC ACID. Esters having SO_4 in the acid radical.

99.20. ESTERS, PHOSPHORUS CONTAINING ACIDS. Esters containing phosphorus in the acid radical. This includes the phosphatides, such as lecithin.

99.30. ESTERS, NITRILES. Esters of the type RCN.

99.40. ESTERS, HYDROAROMATIC ACIDS. Carbon compounds containing an ester-forming group combined with an acid residue containing a partially or wholly hydrogenated hydroaromatic nucleus. Includes rosin acid esters, e. g., abietic acid esters and naphthenic esters.

The patents contained in these subclasses have been taken for the most part from class 260, subclasses 98, 106, and 108

In *class 260, Chemistry, Carbon Compounds,* (Division 6), make the following changes in the definitions:

In the main class definition, in the seventh paragraph, line 4, after "etc.," insert: *or esters in which the only oxygen ring is formed by double esterification of a polybasic acid.*

In subclass 98, cancel the existing definition and examples and substitute the following definition:

Any compound of an organic acid which acid is not classified above or of any inorganic acid in which the dominating element in the acid radical is a non-metal, in either of which an acid hydrogen has been replaced by an ester-forming group, which group consists of the radical of a compound not classified above.

Note.—Does not include esters in which the sole acid radical is NO_3 or a halogen, which are classified in in this class, subclasses 142–148 or 160–166, respectively.

In subclasses 103–105, change the definitions to read as follows:

103. ESTERS, AROMATIC CARBOXYLIC ACID. Esters in which an ester-forming group replaces the hydrogen of a carboxyl group attached directly or indirectly to an aryl nucleus.

104. ESTERS, AROMATIC CARBOXYLIC ACID, PHENOL. Esters conforming to the definition of subclass 103 containing an OH group attached directly to the aryl nucleus.

105. ESTERS, AROMATIC CARBOXYLIC ACID, NUCLEO AMINO. Esters conforming to the definition of subclass 103 containing an amino group attached directly to the aryl nucleus; and add to the example:

esters of phenyl glycine



In subclass 106, change "alcohol residue" to *ester-forming group.*

In subclass 109, insert *a* before "constituent" and change "carboxyl groups" to *group.*

In subclass 142, insert *or the nitrate group* NO_3 after "NO_2."

In subclasses 144–148, insert *or the nitrate group* after "nitro group."

In *class 149, Hides, Skins, and Leather,* (Division 11), change the title of subclass 23, Apparatus, Rolling and embossing, to read:

	Apparatus
23	Rolling.

Transfer of Classes

(ORDER No. 3,259)

U. S. PATENT OFFICE, *Washington, Jan. 8, 1934.*

The following transfers, to take effect at once, are hereby ordered:

Classes 8, 52, and 127 from Division 63 to Division 43.
Classes 3, 32, 128, and Subs. 3 and 12, Class 167, from Division 43 to Division 55.
Class 107 from Division 55 to Division 63.
Class 259 from Division 25 to Division 63.
Class 18, Subs. 49, 50, 52, and 53, from Division 15 to Division 50.
Class 106, Subs. 1–12, 14–21, 36.1–36.3, 38 and 39, from Division 50 to Division 38.
Class 174 from Division 43 to Division 54.
Class 249 from Division 36 to Division 20.
Class 185 from Division 47 to Division 45.
Class 293 from Division 34 to Division 10.
Classes 186 and 243 from Division 34 to Division 4.
Class 123, Subs. 90–96, 170–178, and 196, from Division 28 to Division 45.
Class 165 from Division 55 to Designs Division, which is hereby created.

RICHARD SPENCER,
Acting Commissioner.

Adjudicated Patent

(D. C. Mass.) Rancourt reissue patent, No. 17,122, for tap-splitting machine, claims 1, 2, 15, and 16, *Held* invalid. *Rancourt* v. *Panco Rubber Co.,* 5 F. Supp. 185.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,834,414, B. F. Miessner, Electrical amplifying system, decided January 31, 1934, claims 7, 8, 9, and 10.

Pat. 1,864,455, Dominic Mazzie, Thermostatic control apparatus, decided January 29, 1934, claims 1, 2, and 5.

Pat. 1,878,778, H. E. Huntington and W. A. Boos, Automatic answering and recording telephone device, decided January 27, 1934, claim 5.

Pat. 1,907,723, L. G. Bostwick, Sound-reproducing device, decided January 27, 1934, claims 13, 14, 15, 16, and 17.

Trade-Marks Canceled

182,663. Water softener and grease solvent. The Tromite Corporation, New York, N. Y. Registered April 15, 1924. Canceled January 17, 1934.

192,680. Alimentary pastes. Kansas City Macaroni & Importing Co., Kansas City, Mo. Registered December 9, 1924. Canceled January 17, 1934.

236,927. Certain named canned foods, wheat flour, and macaroni, and tomato sauce. Giacomo Foti, Philadelphia, Pa. Registered December 27, 1927. Canceled January 17, 1934.

275,427. Protein compound of sulphonated hydrocarbon sulphur bodies. Thiophene Products Company, Chicago, Ill. Registered September 23, 1930. Canceled February 1, 1934.

288,018. Wallpaper. Paul Fulton, Burlington, Iowa, assignor, by mesne assignments, to R. S. Blakeslee. Registered October 20, 1931. Canceled February 1, 1934.

300,273. Handkerchiefs. Graemiger Bros. Inc., New York, N. Y. Registered January 10, 1933. Canceled February 1, 1934.

305,522. Boots and shoes. Sawyer System, Inc., Lynn, Mass. Registered August 22, 1933. Canceled February 1, 1934.

Attorneys—Disbarment

(ORDER No. 3,253)

U. S. PATENT OFFICE, *Washington, Oct. 2, 1933.*

Acting under the provisions of section 487 of the Revised Statutes of the United States (U. S. C., title 35, sec. 11), John Edwin Burch, of Chicago, Ill., whose registration is Number 9,448, has this day been disbarred from practice before the United States Patent Office.

CONWAY P. COE,
Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 20, 1934

[VOL. 439. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 343,349. FIRMAET A. HANSEN, Kastrup, Denmark. Filed Nov. 7, 1933.

REGAMA

For Vegetable Seed.
Claims use since August, 1929.

CLASS 2

Receptacles

Ser. No. 345,578. WORTENDYKE MANUFACTURING CO., Richmond, Va. Filed Jan. 2, 1934.

COLORTONE

For Paper Bags and Paper Sacks.
Claims use since Dec. 8, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 345,008. COWLES DETERGENT COMPANY, Cleveland, Ohio. Filed Dec. 16, 1933.

DESOIL

For Chemical Detergent with or without Soap or Other Emulsifying Agent for Use with Water.
Claims use since Dec. 1, 1933.

Ser. No. 345,433. NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Dec. 28, 1933.

Hi-Lite

For Metal Polishes, Glass Cleaners, and Polishes and Dry Cleaners.
Claims use since Nov. 6, 1933.

Ser. No. 345,609. THE ODORONO COMPANY, INC., New York, N. Y. Filed Jan. 3, 1934.

ODORONO

For Soaps.
Claims use since Oct. 17, 1933.

CLASS 5

Adhesives

Ser. No. 343,906. THE ARABOL MANUFACTURING COMPANY, New York, N. Y. Filed Nov. 21, 1933.

GLASET

For Adhesive Liquid Gum.
Claims use since Nov. 4, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 315,596. JEAN NOLAN BEAUTY AIDS, INC., Detroit, Mich. Filed June 9, 1931.

JN

Jean Nolan

For Toilet Articles, Cosmetics, and Beauty Aids—Namely, Facial Astringents, Skin Lotions, Cleansing Creams, Tissue Creams, Foundation Creams, Face Powders, Dusting Powders, Deodorants, Curling Fluids, Shampoos, and Brilliantines.
Claims use since Mar. 6, 1930.

Ser. No. 331,502. KALI-CHEMIE AKTIENGESELLSCHAFT, Berlin, Germany. Filed Oct. 24, 1932.



The words "Kali Chemie" are disclaimed apart from the mark shown on the drawing.

For Pancreatic Preparations, Expectorants, Plasters for Medical Purposes, Chlorinated Hydrocarbons, Carbon Tetrachloride for Animal and Plant Exterminating Materials, Disinfectants, Cyanogen Compounds for Disinfecting Purposes, Cyanogen Compounds for Conserving Materials for Edible Products, Caustic Salts of the Alkaline Earth Metals, Carbonate and Sulphuric Salts of the Alkaline Earth Metals, Ammonia, Iron Salts and Compounds, Chlorine and Chlorine Compounds, Potassium Ferric Chloride, Soda and Sodium Bicarbonate as Fire-Extinguishing Materials, Carbonic Acid Ammonia for Fire-Extinguishing Purposes, Alkali and Earth Alkali Hydroxides and Oxides as Tanning Materials, Cyanogen Compounds for Tanning Purposes, Mordants, Preparations Containing Oxygen, Perborate for Use in Connection with Bath Salts, Perfumes, Face Powders, Face Paints, Ethereal and Essential Oils; Bleaching Materials—Namely, Oxygen-Containing Preparations, Barium Superoxide, Perborate, Chloride of Lime, Hydrochlorite, and Hydrogen Peroxide; Prussian Blue as Color Materials for Washing Purposes, Waxes, Barium and Strontium Salts for Illuminating Purposes, Phosphates and Arsenic-Containing Compounds as Wood-Conserving Materials, and Finishing and Dressing Materials for Textiles and Leathers.

Claims use since June, 1932.

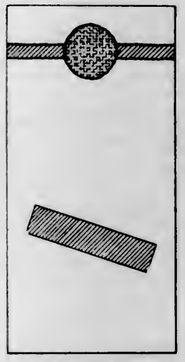
Ser. No. 332,579. MAX FACTOR & CO. INC., Los Angeles, Calif. Filed Nov. 29, 1932.



For Bleach Mask, Eau de Cologne, Powder Foundation Cream, Make-Up Foundation, Skin Freshener (a Cooling Face Lotion), Brilliantine Liquid and Paste, Cleansing Cream, Lemon Cream, Make-Up Blender, Eyebrow Pencil, Hand Lotion, Lip Pomade, Face Powder, Cold Cream, Lip Stick, Skin and Tissue Cream, Dry Rouge.

Claims use since Sept. 1, 1931.

Ser. No. 336,337. E. R. SQUIBB & SONS, New York, N. Y. Filed Apr. 1, 1933.



The trade-mark consists of emblems appearing on containers for the goods. The colors employed are as follows: the seal, ranging from golden to golden brown; the band extending from the seal, brown; the oblique oblong element, brown; the background, ranging from cream to ivory. The outline shown on the drawing is not a part of the trade-mark but indicates generally the longitudinal position of the trade-mark on the container.

For Dentifrice.

Claims use since July, 1925.

Ser. No. 338,315. GEORGE ELROY, doing business as Elroy's Six Point Formula, Los Angeles, Calif. Filed May 29, 1933.



Applicant disclaims the exclusive use of the word "Formula" apart from the mark as shown.

For External Formula for Bronchial Irritations, Colds and Coughs, Cuts, Bruises, Burns, Sunburn, Sore Throat, Toothache, Earache, Chapped or Rough Hands, Gumboils, Scalp Irritations, Sore and Aching Muscles, Strained Ligaments or Sprains, Boils, Irritated Lips, Chafing, and the Like.

Claims use since Apr. 30, 1933.

Ser. No. 338,984. GEORGE L. MOORE, doing business as Tablet Sixty-Six Laboratories, Hollywood, Calif. Filed June 19, 1933.

515

For Preparation for the Treatment of Neuralgia and Rheumatism.

Claims use since Mar. 10, 1933.

Ser. No. 340,195. MEDICINAL PRODUCTS, INC., L'Anse, Mich. Filed July 28, 1933.



The monogram shown on the drawing consists of the letters "MP".

For Medicines—Namely, a Preparation for the Relief of Pain and Headache, a Preparation for the Relief of Coughs, a Preparation for Use in Feminine Hygiene, and a Preparation for Relief of Intestinal Disorders.

Claims use since July 22, 1933.

Ser. No. 341,355. FRANCIS DALE, Paris, France. Filed Sept. 6, 1933.

BUTIL

For Skin Lotion.

Claims use since April, 1933.

Ser. No. 342,629. SEYMOUR M. HERMANN, New York, N. Y. Filed Oct. 18, 1933.

BETA-ENEMA

The word "Enema" is disclaimed when used separate and apart from the mark as shown.

For Laxative Enema.

Claims use since Apr. 1, 1933.

Ser. No. 343,233. CARL J. ZIPPRICH, doing business as Solder-X Company, Chicago, Ill. Filed Nov. 3, 1933.

FORM-A-SOLDER

No registration rights are broadly claimed to the words "Form" and "Solder" apart from the mark as shown.

For Preparation and Composition to be Used for Internally Mending and Stopping Leaks in Radiators and Plumbing Fixtures.

Claims use since Nov. 1, 1932.

Ser. No. 343,487. LOUIS E. EVONS, doing business as Evons Laboratories, Philadelphia, Pa. Filed Nov. 8, 1933.

Oxylin

For Antiseptic Salve for Veterinary Use; Antiseptic Cream for Use in Treatment of Insect Bites, Eczema, Ringworm, Ivy Poison, Athlete's Foot, Sunburn, Itching, Chafing, and Burns; Antiseptic Tablet for Use for Oral Hygiene Purposes and Dental Pathology.

Claims use since July 1, 1932.

Ser. No. 343,729. MARCELLA FLASTER, doing business as The Theon Company, New York, N. Y. Filed Nov. 16, 1933.



For Nail Polish.

Claims use since June, 1932.

Ser. No. 343,740. THE OLEOTHESIN COMPANY, INC., Buffalo, N. Y. Filed Nov. 16, 1933.

SAFTIAMPS

For Ampoules and Tubes Containing Anæsthetic Preparations for Hypodermic Application.

Claims use since Nov. 1, 1933.

Ser. No. 343,741. SARAH POLLACK, Denville, N. J. Filed Nov. 16, 1933.

NATURFUD

For Cleansing and Nourishing Skin Cream.

Claims use since Jan. 1, 1930.

Ser. No. 344,365. TESTED PRODUCTS LABORATORIES INC., Boston, Mass. Filed Dec. 1, 1933.

PLACIDAN

For Preparation for the Treatment of Acid Dyspepsia.

Claims use since Nov. 28, 1933.

Ser. No. 344,366. TESTED PRODUCTS LABORATORIES INC., Boston, Mass. Filed Dec. 1, 1933.



The drawing is lined for blue, red, and white. No claim is made to the representation of the label per se. All wording is disclaimed except "Placidan" and "Tested Products Laboratories Inc."

For Preparation for the Treatment of Acid Dyspepsia.

Claims use since Nov. 28, 1933.

Ser. No. 344,463. BATTLE CREEK DRUGS, INC., Battle Creek, Mich. Filed Dec. 5, 1933.



No claim is made to the words "Battle Creek Treatment" apart from the mark as shown. The drawing is lined for blue and pink.
For Eliminant Laxative and Tonic.
Claims use since September, 1932.

Ser. No. 344,583. FEMININE HYGIENE LABORATORIES, Buffalo, N. Y. Filed Dec. 7, 1933.

FLEXO

For Preparation in Tablet, Capsule, and Powder Form for the Treatment of Amenorrhea, Dysmenorrhea, Menorrhagia, and During Menopause.
Claims use since July 1, 1932.

Ser. No. 344,654. HY'NE COMPANY, doing business as Lake Shore Laboratories, Chicago, Ill. Filed Dec. 8, 1933.

CEPEC

To Women The World Over

DOUCHE POWDER

Applicant disclaims the words "To Women the World Over" and "Douche Powder."
For Antiseptic Suppositories.
Claims use since Jan. 1, 1932.

Ser. No. 344,655. HY'NE COMPANY, doing business as Valgene Laboratories, Chicago, Ill. Filed Dec. 8, 1933.

Valgene
FEMININE HYGIENE

Applicant disclaims the words "Feminine Hygiene."
For Antiseptic Suppositories.
Claims use since Jan. 1, 1932.

Ser. No. 344,724. ROBERT S. LUKE, doing business as The Mineral Valley Water Company, Mineral Wells, Tex. Filed Dec. 9, 1933.

CV MINERALINE

For Healing External Application for Colds, Chapped and Irritated Skin, Sunburn, Boils, Hay Fever, Nasal and Throat Irritation, Simple Headache, Burns, Bruises, Cuts, Insect Bites, and Tender Feet.
Claims use since Nov. 8, 1932.

Ser. No. 344,819. VIVINY PERFUMERS, INC., West Haven, Conn. Filed Dec. 11, 1933.

VIENNESE NIGHTS

For Cosmetics—Namely, Cold Cream, Vanishing Cream, Face Cream, Massage Cream, Bleaching Cream and/or Toilet Lotions, Preparation for Use as Wrinkle Remover, Face Powder, Body Deodorants, Depilatories, Nail Polish and Nail Polish Remover, Toilet Water, Perfumes, Skin Ointment for Hands and Face, Antiseptic Solutions, Preparation for Use as Cuticle Remover, Camphor Ice, Lip and Face Rouge, and Eyebrow Pencils.
Claims use since September, 1926.

Ser. No. 344,925. RALPH I. WEINSTOCK, doing business as Thyrole Chemical Company, Philadelphia, Pa. Filed Dec. 13, 1933.

"AMPS"

For Filled Capsules for Allaying Menstrual Pains Containing Pituitary, Luminol, Aspirin, Cincophen.
Claims use since July 1, 1933.

Ser. No. 344,992. JAKOB A. TRZECIAK, Rochester, N. Y. Filed Dec. 15, 1933.



The portrait shown is that of applicant.
For Herb Preparations Recommended for the Relief of Colds and Bloated Stomach.
Claims use since July 31, 1933.

Ser. No. 345,032. L. OTUS MILLER, Asheville, N. C. Filed Dec. 16, 1933.

ROBPWOI

For Medicine for Reduction of Blood Pressure.
Claims use since Nov. 16, 1933.

Ser. No. 345,051. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Dec. 18, 1933.

Detavit

For Emulsions Containing Vitamins A and D, Indicated for All Conditions Due to a Deficiency of These Vitamins.
Claims use since Nov. 20, 1933.

Ser. No. 345,119. RATIONAL MEDICINES, INC., New York, N. Y. Filed Dec. 19, 1933.

MENDOLOR

For Medicinal Preparation Recommended as a Pain Alleviator.
Claims use since Dec. 5, 1933.

Ser. No. 345,270. SANI-CROSS LABORATORIES, San Francisco, Calif. Filed Dec. 22, 1933.

fōmex

For Preparation for Use in Feminine Hygiene.
Claims use since Nov. 15, 1933.

Ser. No. 345,292. PAUL DE COURCY, doing business as American Medicinal Soda Company, Cincinnati, Ohio. Filed Dec. 23, 1933.

[M] DE WHITE [M]
MEDICATED
[S] SODA [S]

Disclaimer is made to the exclusive use of the words "Medicated Soda" when used separate and apart from the other features of the mark.
For Medicines and Pharmaceutical Preparations Specifically for a Gargle and Mouth Wash.
Claims use since Aug. 28, 1933.

Ser. No. 345,536. CAMPANA CORPORATION, Batavia, Ill. Filed Jan. 2, 1934.

DRESKIN

For Toilet Preparation in Liquid Form for Use After Shaving, After the Bath, and at Other Times to Preserve and Beautify the Skin and Complexion.
Claims use since Dec. 28, 1933.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 341,975. LINDENER ZUENDHUETCHEN- UND PATRONENFABRIK A. G., Linden, Germany. Filed Sept. 28, 1933.

GE

For Explosives.
Claims use since 1875.

Ser. No. 346,197. HERCULES POWDER COMPANY, Wilmington, Del. Filed Jan. 18, 1934.

HERCULITE

For Dynamite.
Claims use since December, 1926.

Ser. No. 346,198. HERCULES POWDER COMPANY, Wilmington, Del. Filed Jan. 18, 1934.

TITAN

For Dynamite.
Claims use since 1920.

CLASS 10

Fertilizers

Ser. No. 344,663. McMILLAN & HARRISON FERTILIZER CO., Mobile, Ala. Filed Dec. 8, 1933.



The word "Nitrate" is disclaimed apart from the mark as shown. The drawing is lined for red and blue.
For Nitrate.
Claims use since Apr. 1, 1933.

CLASS 12

Construction Materials

Ser. No. 344,681. JAMES S. STANLEY, New York, N. Y. Filed Dec. 8, 1933.



For Plaster of Paris to be Used for Sculpturing.
Claims use since Dec. 2, 1933.

Ser. No. 345,298. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Dec. 23, 1933.

HELLITE

For Refractory Cements.
Claims use since Sept. 19, 1933.

Ser. No. 345,491. ARMSTRONG-NEWPORT COMPANY, Carrollville, Wis. Filed Dec. 30, 1933.

TEMBOARD

For Fiber Board, Composite Board, Construction Board, Synthetic or Artificial Lumber and Hard Board.
Claims use since Nov. 27, 1933.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 345,829. THE A. C. GILBERT COMPANY, New Haven, Conn. Filed Jan. 9, 1934.

GILBERT

Applicant is the owner of registration No. 133,132, of July 13, 1920, and of registration No. 137,237, of November 23, 1920.
For Chest Handles.
Claims use since July 1, 1913.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 344,172. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Filed Nov. 27, 1933.



Trade-mark consists of an orange and blue metal tag or disk or a printed reproduction thereof. No claim is made to printed matter on drawing apart from the mark as shown except the word "Premier."
For Wire and More Particularly Spring Wire.
Claims use since October, 1931.

CLASS 15

Oils and Greases

Ser. No. 332,391. THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed Nov. 21, 1932.



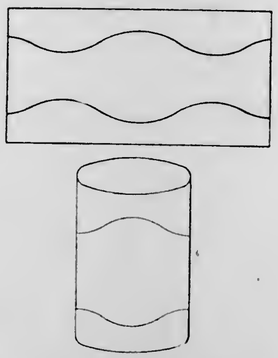
For Transmission Grease, Cup Grease, Nonfluid Oil, Sponge Grease, Graphite Grease, Fluid Lubricating Oils, Light Machine Oils, Gear Grease, High-Pressure Chassis Lubricant, Lead-Base Grease, Gear Oil, Steering Gear Lubricant, Wheel-Bearing Lubricant, Tryon Shackle Lubricant, Water-Pump Lubricant, Clear Penetrating Oil, Universal-Joint Lubricant, Rocker-Arm Lubricant, Graphite Penetrating Oil, Free-Wheeling Lubricant, Graphite Cup Grease, Winter Lead-Base Gear Lubricant, Lubricating Oils and Greases, Lubricating Compounds and Compositions, and Lubricating and Penetrating Oil Compounds.
Claims use since Sept. 1, 1905.

Ser. No. 341,868. J. MOUREN LAURENS, Los Angeles, Calif. Filed Sept. 25, 1933.



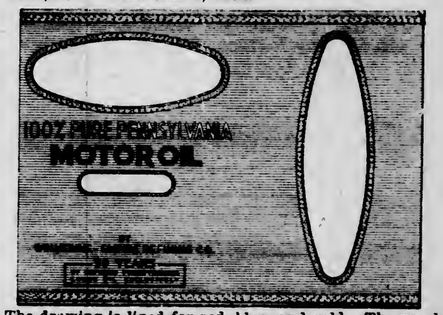
No claim is made to the words "Super Refined", "100% Pure Pennsylvania", "Hyflash", "Motor Oil", "Dewaxed", and "Los Angeles, California", apart from the mark shown in the drawing.
For Lubricating Oils and Lubricating Greases.
Claims use since July 1, 1930.

Ser. No. 344,606. QUAKER STATE REFINING CO., INC., Oil City, Pa. Filed Dec. 7, 1933.



Trade-mark consists of an irregular-shaped band placed around the can so that there is a bulged section on each side of the can. No claim is made to the representation of the container of the goods.
For Lubricating Oils and Greases.
Claims use since May 12, 1933.

Ser. No. 345,649. WOLVERINE-EMPIRE REFINING CO., New York, N. Y. Filed Jan. 4, 1934.



The drawing is lined for red, blue, and gold. The words "100% Pure Pennsylvania Motor Oil" and "50 Years of Refining Pennsylvania Crude Oil Exclusively" are disclaimed apart from the mark as shown.
For Lubricating Oils and Greases.
Claims use since March, 1933.

Ser. No. 345,681. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa. Filed Jan. 5, 1934.

OPTO

For Lubricating Oils and Greases.
Claims use since Sept. 1, 1933.

Ser. No. 345,684. SKELLY OIL COMPANY, Tulsa, Okla. Filed Jan. 5, 1934.

TAILOR MADE

For Lubricating Oils, Lubricating Greases, and Gasoline.
Claims use since Nov. 28, 1932.

Ser. No. 345,896. THE TOLEDO PIPE THREADING MACHINE COMPANY, Toledo, Ohio. Filed Jan. 10, 1934.

"TOLEDO"

For Tool Lubricants.
Claims use since Aug. 29, 1932.

CLASS 16

Paints and Painters' Materials

Ser. No. 344,944. PARCO PRODUCTS, INCORPORATED, New York, N. Y. Filed Dec. 14, 1933.

PARIWALL

For Paint in the Form of a Paste and Ready Mixed.
Claims use since Nov. 14, 1933.

Ser. No. 345,189. VALENTINE & COMPANY, New York, N. Y. Filed Dec. 20, 1933.

VALENITE

For Varnish Enamels, Clear Varnishes, Paint Primers, Paint Surfacers, Paint Primer-Surfacers, Paint-Primer Grounds, and Putties.

Claims use since Sept. 19, 1918, on varnish enamels and clear varnishes; since Sept. 25, 1929, on primers and surfacers, and since September, 1933, on primer surfacers, primer grounds, and putties.

Ser. No. 345,705. D. A. COLLINS MFG. CO., INC., Brooklyn, N. Y. Filed Jan. 6, 1934.



For Preparations Adapted for Cleansing and Polishing Auto Bodies, Furniture, Floors, Leather, and Windows.

Claims use since August, 1929.

CLASS 17

Tobacco Products

Ser. No. 345,719. M. MARSH & SON, Wheeling, W. Va. Filed Jan. 6, 1934.

Mountaineers

For Cigars.

Claims use since Nov. 15, 1933.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 345,116. LOUISIANA TIMBER COMPANY, INC., Kenner, La. Filed Dec. 19, 1933.



The word "Brand" is disclaimed apart from the mark as shown.

For Boat Oars, Canoe Paddles, and Pirogues.

Claims use since Jan. 1, 1931.

Ser. No. 345,158. HUDSON MOTOR CAR COMPANY, Detroit, Mich. Filed Dec. 20, 1933.

AXLEFLEX

For Axles.

Claims use since Dec. 12, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 339,302. CONTINENTAL CORPORATION, Chicago, Ill. Filed June 28, 1933.

Continental

For Spark Plugs and Distributors, Coils, Cables, and Timers Used for Automobile Ignition.

Claims use since Apr. 1, 1933.

Ser. No. 342,377. ALBERT ROTHENSTEIN, New York, N. Y. Filed Oct. 11, 1933.

Rathé

For Radio Receiving Sets.

Claims use since Sept. 23, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 344,604. PARKER BROTHERS INC., Portland, Maine, and Salem, Mass. Filed Dec. 7, 1933.

PARDON ME

For Parlor Board Game Played with Pieces.

Claims use since Dec. 2, 1933.

Ser. No. 344,793. MARSHALL-WELLS COMPANY, doing business as Ol' Reliable Sporting Goods Co., Duluth, Minn. Filed Dec. 11, 1933.



Applicant disclaims exclusive right to use of the words "Ol' Reliable" apart from the mark as shown. The drawing is lined for red.

For Striking Bags.

Claims use since Nov. 29, 1933.

Ser. No. 345,177. J. WILLARD RUMMEL, Cincinnati, Ohio. Filed Dec. 20, 1933.



For Toy Boomerang.

Claims use since 1931.

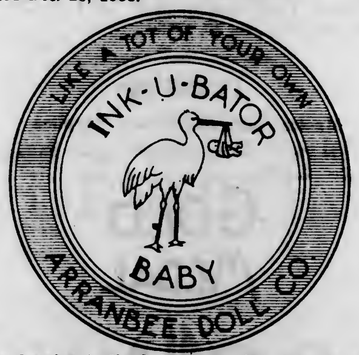
Ser. No. 345,232. FREDERIC E. WAIGHT, Flushing, N. Y. Filed Dec. 21, 1933.

SCORITE

For Golf Balls and Checkers and Backgammon Game Boards.

Claims use since Dec. 13, 1933.

Ser. No. 345,287. ARRANBEE DOLL CO., New York, N. Y. Filed Dec. 23, 1933.



The drawing is lined for blue. No claim is made to the words "Like a Tot of Your Own" apart from the mark shown.

For Dolls and Baby Incubator Toys.

Claims use since June 1933.

Ser. No. 345,307. NATIONAL AUTOMATIC MACHINES COMPANY, St. Paul, Minn. Filed Dec. 23, 1933.

GRAND SLAM

For Coin-Controlled Amusement Device.

Claims use since May 1, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 344,090. HAMMEL, RIGLANDER-PENNANT CORPORATION, now by change of name, Hammel, Riglander & Co. Inc., New York, N. Y. Filed Nov. 24, 1933. Under 10-year proviso.

DUMONT

For Tweezers, Pliers, and Nippers.

Claims use since 1890.

Ser. No. 345,600. LANDIS MACHINE COMPANY, Waynesboro, Pa. Filed Jan. 3, 1934.

LANDMACO

For Threading Machines.

Claims use since June 1931.

CLASS 26

Measuring and Scientific Appliances

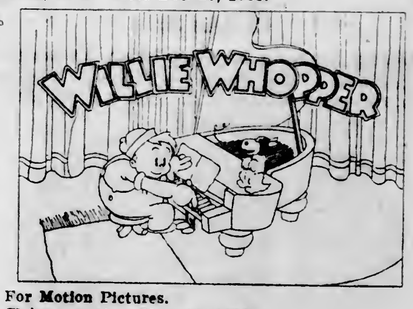
Ser. No. 343,575. SCHWITZER-CUMMINS COMPANY, Indianapolis, Ind. Filed Nov. 11, 1933.

STOKOSTAT

For Hydraulically Operated Time-Control Device for Stokers and the Like.

Claims use since Oct. 6, 1933.

Ser. No. 345,149. CELEBRITY PRODUCTIONS, INC., New York, N. Y. Filed Dec. 20, 1933.



For Motion Pictures.

Claims use since Nov. 14, 1933.

Ser. No. 345,621. FOLMER GRAFLEX CORPORATION, Rochester, N. Y. Filed Jan. 4, 1934.

Riteway

For Photographic Film and Plate Holders.

Claims use since Dec. 14, 1933.

Ser. No. 345,749. EUGENE W. CASTLE, doing business as Castle Films, New York, N. Y. Filed Jan. 8, 1934.

CASTLE FILMS

No claim is made to the exclusive use of the word "Films" apart from the mark shown in the drawing.

For Motion-Picture Films.

Claims use since Dec. 15, 1933.

Ser. No. 345,854. CENTA TRADING CORPORATION, New York, N. Y. Filed Jan. 10, 1934.

TUBASCOPE

For Eyeglasses, Spectacles, and Sunglasses.
Claims use since Nov. 15, 1933.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 344,769. DREXELL PRODUCTS CORP., Brooklyn, N. Y. Filed Dec. 11, 1933.

Mary Lou

For Powder Puffs.
Claims use since Aug. 16, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 344,882. A. B. BROWN CO., INC., Woodside, N. Y. Filed Dec. 13, 1933.

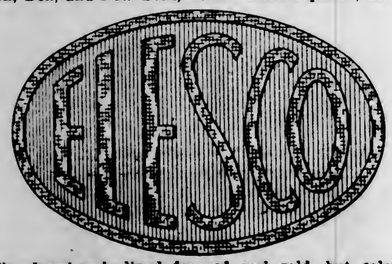
EASTERN VENETIAN BLINDS

No claim is made to the words "Venetian Blinds."
For Venetian Blinds and Parts Thereof.
Claims use since July 1, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 341,945. THE SUPERHEATER COMPANY, Wilmington, Del., and New York, N. Y. Filed Sept. 27, 1933.



The drawing is lined for red and gold, but coloring, as well as the oval shown, is disclaimed except in connection with the word "Elesco."
For Superheaters, Oil Heaters, and Boilers.
Claims use since Nov. 20, 1923, as to superheaters: since Mar. 15, 1930, as to oil heaters; and since Jan. 30, 1932, as to boilers.

Ser. No. 345,418. EMBURY MANUFACTURING CO., Warsaw, N. Y. Filed Dec. 28, 1933.

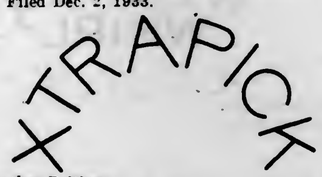
DEFIANCE

For Oil Lanterns.
Claims use since 1900.

CLASS 35

Belting, Hose, Machinery Packing, and Nonmetallic Tires

Ser. No. 344,401. HOLYOKE BELTING COMPANY, Holyoke, Mass. Filed Dec. 2, 1933.



For Leather Belting.
Claims use since Mar. 24, 1933.

Ser. No. 345,622. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 4, 1934.

ALLGRIP

For Nonmetallic Tires of Fabric and Rubber.
Claims use since Sept. 29, 1933.

Ser. No. 345,768. HOLYOKE BELTING COMPANY, Holyoke, Mass. Filed Jan. 8, 1934.

Spinex

For Leather Belting.
Claims use since Jan. 2, 1934.

Ser. No. 345,852. THE BELMONT PACKING & RUBBER COMPANY, Philadelphia, Pa. Filed Jan. 10, 1934. Under 10-year proviso.

BELMONT

For Fiber and Rubber Packings.
Claims use since Jan. 30, 1895.

CLASS 36

Musical Instruments and Supplies

Ser. No. 344,578. CHESBRO MUSIC CO., Idaho Falls, Idaho. Filed Dec. 7, 1933.

GOLD MEDAL



No claim is made for the words "Gold Medal" apart from the mark as shown.
For Reeds for Musical Instruments Such as Saxophones and Clarinets.
Claims use since Jan. 1, 1933.

CLASS 37

Paper and Stationery

Ser. No. 333,075. LOWMAN AND HANFORD COMPANY, Seattle, Wash. Filed Dec. 14, 1932.

L&H Co Penmimeo

No claim is made apart from the mark as shown to the word "Penmimeo."
For Mimeograph, Bond, Book, Writing, and Typewriter Paper, and Other Kinds of Paper.
Claims use since July 16, 1932.

Ser. No. 333,622. WURZBURG BROTHERS, Memphis, Tenn. Filed Jan. 3, 1933.

GLYD-O-FILE

"Glyd" and "File" are disclaimed apart from the mark shown.
For Corrugated Fiber Filing Cases.
Claims use since Nov. 1, 1932.

Ser. No. 344,322. M. GRUMBACHER, New York, N. Y. Filed Dec. 1, 1933.

"UNDIQUE INSIGNIA"

For Pastel Paper, Bristol Board, Thumb Tacks, Charcoal Paper, Sandpaper Pads, Sketch Blocks, Water-Color Paper, Sketching Pads.
Claims use since February, 1932.

Ser. No. 344,333. INKOGRAPH CO., INC., New York, N. Y. Filed Dec. 1, 1933.

INK-D-CATOR

No claim is made to the word "Ink" apart from the mark shown.
For Fountain Pens.
Claims use since March, 1933.

Ser. No. 345,535. CAMPANA CORPORATION, Batavia, Ill. Filed Jan. 2, 1934.

DRESKIN

For Cleansing Tissues.
Claims use since Dec. 28, 1933.

Ser. No. 345,597. A. KIMBALL COMPANY, New York, N. Y. Filed Jan. 3, 1934.

KIMCO

For Price Tags.
Claims use since Feb. 8, 1928.

Ser. No. 345,598. A. KIMBALL COMPANY, New York, N. Y. Filed Jan. 3, 1934.

KIMHOSE

For Price Tags.
Claims use since Feb. 1, 1931.

Ser. No. 345,737. WANDERER-WERKE VORM. WINKLHOFER & JAENICKE AKTIENGESELLSCHAFT, Schonau, near Chemnitz, Germany. Filed Jan. 6, 1934.

SILENTA

For Eraser Stencils for Typewriters, Manuscript Holders, Typewriter Copyholders, Typewriter Erasing Shields, Duplicating Machines Using Stencils, Rubber Erasers, and Parts of the Above Devices and Machines.
Claims use since Jan. 29, 1932.

Ser. No. 345,783. MILLERS FALLS PAPER COMPANY, Millers Falls, Mass. Filed Jan. 8, 1934.

GIBRALTAR

For Onion-Skin Paper, Writing Paper, and Printing Paper.
Claims use since June 1, 1903.

Ser. No. 345,824. EATON PAPER CORPORATION, Pittsfield, Mass. Filed Jan. 9, 1934.

Shadonet

For Stationery Consisting of Writing Paper in the Form of Pound Goods as Well as Ream Goods, Envelopes, and Papeteries.
Claims use since Sept. 22, 1932.

Ser. No. 345,860. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed Jan. 10, 1934.



The drawing is lined to show contrasting colors, but no claim to particular colors is made.
For Fourdrinier Tissue, Manila Tissue, Sulphite Tissue, Glazed Tissue, Manila Fourdrinier Sulphite Tissue, Fourdrinier Sulphite Tissue, Glazed Sulphite Paper, Sulphite Food-Wrapping Paper, Sanitary Wrapping Paper, Sulphate Kraft Paper, Sulphate Kraft Envelope Paper, Grease Resistant Food Wrapping Paper, Glazed Sulphate Kraft Paper, Meat Wrapping Paper, Tire Wrapping Paper, Manila Meat Wrapping Paper, Manila Butchers' Paper, Kraft Wrapping Paper, Sulphite Wrapping Paper, Dry-Finish Butchers' Paper, Raisin Tray Paper, Manila Paper, Kraft Paper, Envelope Paper, Kraft Envelope Paper, Manila Envelope Paper, Fruit Wrapping Paper, Box Lining Paper, Creped Box Lining Paper, Treated Citrus Wrapping Paper, Tomato Wrapping Paper, Bottle Wrapping Paper.
Claims use since January, 1931.

CLASS 38

Prints and Publications

Ser. No. 333,500. BROWN & BIGELOW, St. Paul, Minn. Filed Dec. 30, 1932.

Talio-Crome

For Etchings, Printed Etchings, Greeting Cards, Water-Color Prints, and Gravure Etchings.
Claims use since Aug. 25, 1932.

Ser. No. 342,911. C. HARVEY JONES, Seattle, Wash. Filed Oct. 25, 1933.

Photovisual

For Educational Publications Consisting in Pamphlets Containing Collected Research Data Including Illustrations on Various Instructive Subjects for the Benefit of Teachers in Presenting a Course of Study to Students, the Pamphlets being Adapted for Distribution to the Students.
Claims use since Aug. 20, 1933.

Ser. No. 343,998. MARINE BUYERS GUIDE PUBLISHING CO. INC., New York, N. Y. Filed Nov. 22, 1933.

MARINE BUYERS GUIDE

For Publication Issued Bi-Annually.
Claims use since Oct. 16, 1933.

Ser. No. 345,117. THE LUBRICHART COMPANY, Cleveland, Ohio. Filed Dec. 19, 1933.

LUBRICHART

The drawing is lined for shading only.
For Printed Charts Concerning the Lubrication of Machinery, Motor Vehicles, and Aircraft.
Claims use since June 9, 1933.

Ser. No. 345,464. F. W. DODGE CORPORATION, New York, N. Y. Filed Dec. 29, 1933.

SWEET'S CATALOGUE FILE

ARCHITECTURAL

For Periodical Published Annually.
Claims use since Dec. 18, 1933.

Ser. No. 345,585. UNITED FEATURE SYNDICATE, INC., New York, N. Y. Filed Dec. 30, 1933.

BUMPS

For Comic Strip.
Claims use since Sept. 24, 1933.

Ser. No. 345,631. FRANK PAUL MILLER, Cleveland, Ohio. Filed Jan. 4, 1934.

Conductor Smoky Joe

For Series of Comic Drawings.
Claims use since February, 1932.

Ser. No. 345,718. EDWARD FRANK MACK, New York, N. Y. Filed Jan. 6, 1934.

THE CORNER DRUG STORE

For Series of Cartoons.
Claims use since Dec. 21, 1933.

Ser. No. 345,735. UNITED FEATURE SYNDICATE, INC., New York, N. Y. Filed Jan. 6, 1934.

JOE JINKS, *Featuring* DYNAMITE DUNN

For Comic Drawings Published in a Series in Daily and Sunday Newspapers.
Claims use since Dec. 4, 1933.

Ser. No. 345,742. THE BALTIMORE POST COMPANY, Baltimore, Md. Filed Jan. 8, 1934.

GABY'S
Selections for Today

For Newspaper Column.
Claims use since Apr. 1, 1923.

Ser. No. 345,743. THE BALTIMORE POST COMPANY, Baltimore, Md. Filed Jan. 8, 1934.

RACE COMMENT
By GABY

For Newspaper Column.
Claims use since Apr. 1, 1923.

CLASS 39

Clothing

Ser. No. 333,353. FRANKLIN SHOE COMPANY, Boston, Mass. Filed Dec. 24, 1932.



Trade-mark consists of a likeness of Benjamin Franklin.
For Shoes Made of Leather, Fabric, or Rubber, or Combinations of the Same.
Claims use since February, 1899.

Ser. No. 338,408. HARRY FEILER COMPANY, Louisville, Ky. Filed June 1, 1933.

Vanity Fair
ties of renown

The words "Ties of Renown" are disclaimed apart from the other features of the mark shown.
For Men's Ties and Mufflers.
Claims use since July 1, 1932.

Ser. No. 338,613. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 7, 1933.

STREAMLINE

For Men's and Boys' Negligee and Dress Shirts and Pajamas.
Claims use since Feb. 27, 1933.

Ser. No. 340,897. REGAL SHIRT COMPANY, Philadelphia, Pa. Filed Aug. 21, 1933.



For Men's Negligee Shirts.
Claims use since June, 1930, for "Viking", and since June 3, 1933, for mark as shown.

Ser. No. 342,834. BRENNER BROTHERS, New York, N. Y. Filed Oct. 24, 1933.



For Ladies' Clothing—Namely, Coats, Suits, and Dresses.
Claims use since May 8, 1933.

Ser. No. 343,155. AMERICAN WRINGER COMPANY, INC., Woonsocket, R. I. Filed Nov. 2, 1933.

WELTITE

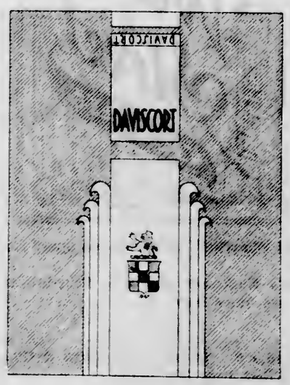
For Shoe Welting.
Claims use since Oct. 9, 1933.

Ser. No. 344,166. STANDARD TEXTILE CO., Memphis, Tenn. Filed Nov. 25, 1933.

BLUE GOOSE

For Men's and Boys' Overalls, Men's and Boys' Pants, Vests, and Jackets.
Claims use since Sept. 1, 1924.

Ser. No. 344,394. JOEL BAILY DAVIS COMPANY, Philadelphia, Pa. Filed Dec. 2, 1933.



The drawing is lined for contrasting purposes and not for color.
For Hosiery, Underwear, Sweaters, and Bathing Suits, All for Men, Women, and Children.
Claims use since Sept. 15, 1933.

Ser. No. 344,938. LADY OF REFINEMENT HOSIERY COMPANY, Philadelphia, Pa. Filed Dec. 14, 1933.



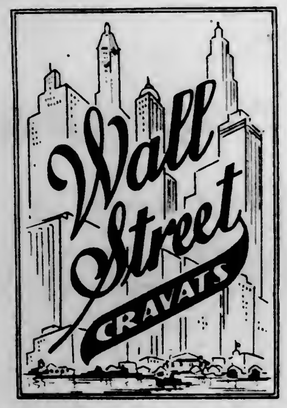
For Hosiery.
Claims use since Nov. 1, 1932.

Ser. No. 345,006. BEST & CO., INC., New York, N. Y. Filed Dec. 16, 1933.

GLOBE-TROTTER

For Ladies', Misses', and Children's Dresses and Hats.
Claims use since Dec. 4, 1933.

Ser. No. 345,481. WALL STREET CRAVATS, Chicago, Ill. Filed Dec. 29, 1933.



The word "Cravats" is disclaimed apart from the mark as shown.
For Men's Neckwear, Cut Silk Four-in-Hand Necktles.
Claims use since Nov. 1, 1932.

Ser. No. 345,500. DAVID D. DONIGER & CO., New York, N. Y. Filed Dec. 30, 1933.

Bagpipe

For Sportswear—Namely, Leather Jackets, and Sweaters and Breeches.
Claims use since July 15, 1932.

Ser. No. 345,602. THE MANHATTAN SHIRT CO., New York, N. Y. Filed Jan. 3, 1934. Under section 5b of the act of 1905 as amended in 1920.

Manhattan

For Necktles.
Claims use since Oct. 1, 1932.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 330,684. INSTITUTE OF CARPET MANUFACTURERS OF AMERICA, INC., New York, N. Y. Filed Sept. 24, 1932.



For Carpets and Rugs.
Claims use since Sept. 8, 1932.

Ser. No. 342,370. VANN-MOORE MILLS CO., Franklinton, N. C. Filed Oct. 11, 1933.

The Aristocrat of TURKISH TOWELS

No claim is made to the words "Turkish Towels" aside from the mark shown.
For Terry Cloth Piece Goods, Terry Towels, Bath Mats, and Wash Cloths.
Claims use since Dec. 1, 1926.

Ser. No. 343,534. ALBERT H. VANDAM CO., INC., New York, N. Y. Filed Nov. 10, 1933.



Applicant disclaims the right to the exclusive use of the word "Product" and the picture of the section of piece goods, apart from the mark shown.
For Piece Goods of Silk, Cotton, Rayon, and Wool, and Piece Goods of Mixtures of These Materials.
Claims use since Nov. 2, 1933.

Ser. No. 345,203. B. B. & R. KNIGHT CORPORATION, Providence, R. I. Filed Dec. 21, 1933.

STAR CRAFT

For Cloth in the Piece Made All or in Part of Worsted, Wool, Mohair, Camel's Hair, Alpaca, Silk, Rayon, Cotton.
Claims use since Sept. 26, 1933.

CARNEGIE LIBRARY OF PITTSBURGH

Ser. No. 345,247. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Dec. 22, 1933.

GILBRAE

For Knitted and Woven Fabrics in the Piece, Whether Made of Cotton, Silk, Wool, Rayon, Artificial Silk, or Combinations Thereof.
Claims use since Feb. 12, 1930.

Ser. No. 345,249. GLENMOOR MILLS, INC., New York, N. Y. Filed Dec. 22, 1933.

CANVAHAIR

For Tailor's Stiffening Canvas as an Interlining for Tailored Apparel for Men's, Women's, and Boys' Clothes.
Claims use since Sept. 8, 1933.

Ser. No. 345,571. S. STROOCK & CO. INC., New York, N. Y. Filed Jan. 2, 1934.

THISTLEMOOR

For Tweed Wool Fabric in the Piece.
Claims use since Dec. 21, 1933.

CLASS 43

Thread and Yarn

Ser. No. 344,332. JACK FROST YARN COMPANY, New York, N. Y. Filed Dec. 1, 1933.



No claim is made to the exclusive use of the portion "Superfine" except in relation to the other features of the mark as shown on the drawing.
For Yarns of Various Sizes, Various Fibrous Materials, and for Various Purposes, Including Knitting, Crocheting, Embroidery, and Art Needle Work in General.
Claims use since Mar. 2, 1930.

Ser. No. 344,761. J. CLAY & COMPANY (BRADFORD) LIMITED, Bradford, England. Filed Dec. 11, 1933.

"CLAVELA"

For Cotton Yarn and Sewing Cotton.
Claims use since Jan. 11, 1933.

Ser. No. 345,327. BARNHARDT BROTHERS, Charlotte, N. C. Filed Dec. 26, 1933.

LOLISLE

For Mixed Cotton and Rayon Yarn.
Claims use since Sept. 1, 1933.

Ser. No. 345,328. BARNHARDT BROTHERS, Charlotte, N. C. Filed Dec. 26, 1933.

CREPETONE

For Rayon Yarn.
Claims use since May 27, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 343,793. SAMSON-UNITED CORPORATION, Rochester, N. Y. Filed Nov. 17, 1933.

Boté

For Sachet Pads for Use in Permanent Waving of the Hair.
Claims use since Oct. 21, 1933.

Ser. No. 345,147. MILBURN J. BENJAMIN, Los Angeles, Calif. Filed Dec. 20, 1933.

SPRINGALUMIN

For Surgical Trusses.
Claims use since Oct. 26, 1931.

Ser. No. 345,472. R. M. LOW, doing business as Low Chemical Company, New York, N. Y. Filed Dec. 29, 1933.

SANITATOR

For Device for Cleansing and Sterilizing Telephone Mouthpieces.
Claims use since Nov. 1, 1933.

Ser. No. 345,694. SURGICAL DRESSINGS, INC., Boston, Mass. Filed Jan. 5, 1934.

BANJITS

For Bandages.
Claims use since Oct. 11, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 340,133. SOCIEDAD EXPLOTADORA DE LAS AGUAS DE RUBINAT-LLORACH, SOCIEDAD ANONIMA, Barcelona, Spain. Filed July 26, 1933.



No claim is made to any of the notations on the drawing with the exception of the words "Rubinat" and "Llorach."
For Natural Mineral Waters.
Claims use since Dec. 20, 1887.

Ser. No. 345,212. ALBERT G. LOVE, Taft, Calif. Filed Dec. 21, 1933.



No claim is made to the words "Coffee" and "Carbonated."
For Carbonated Coffee Beverage Sold as a Soft Drink.
Claims use since July 1, 1932.

CLASS 46

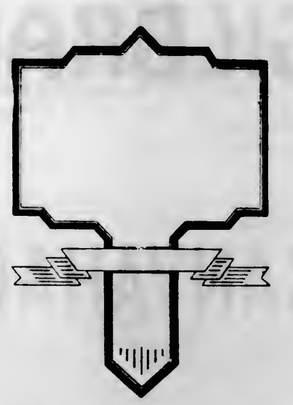
Foods and Ingredients of Foods

Ser. No. 308,207. ARTHUR M. JORDAN, doing business as Pinelawn Farm Products Co., Pinelawn, N. Y. Filed Nov. 22, 1930.



Exclusive use of the words "Food Products" and "Life's Necessities" apart from the mark as shown is disclaimed.
For Food Products—Namely, Butter, Milk.
Claims use since Nov. 1, 1930.

Ser. No. 308,950. THE PHARMA-CRAFT CORPORATION, Louisville, Ky. Filed Dec. 13, 1930.



For Dietetic Foods and Ingredients Thereof—Namely, Food Sweeteners and Flour.
Claims use since Oct. 10, 1930.

Ser. No. 322,716. JOS. J. STADISH, doing business as The Best Products, Milwaukee, Wis. Filed Jan. 4, 1932.



The words "The Best" are disclaimed apart from the mark as shown.
For Imported Birdseed, Mixed Birdseed, Moulting Food, Flute-Note Seed for Birds, and Color Food.
Claims use since June, 1927.

Ser. No. 329,389. TOY TOWN CHOCOLATES, INC., Winchendon, Mass. Filed Aug. 6, 1932.



For Confectionery.
Claims use since June 2, 1932.

Ser. No. 331,755. STANDARD RICE COMPANY, INC., Houston, Tex., and Crowley, La. Filed Oct. 31, 1932.



For Rice and Rice Products—Namely, Rice Bran, Rice Polish, Rice Flour, Brewer's Rice, Rice Flakes, and Brown Rice.
Claims use since August, 1931.

Ser. No. 332,698. MUTUAL DISTRIBUTORS, LTD., Los Angeles, Calif. Filed Dec. 2, 1932.



For Fresh Fruits—Namely, Fresh Deciduous Fruits and Fresh Citrus Fruits.
Claims use since Aug. 22, 1930.

Ser. No. 332,794. WHITTIER SELECT CITRUS ASSOCIATION, Whittier, Calif. Filed Dec. 5, 1932.



For Fresh Citrus Fruits.
Claims use since Feb. 25, 1922.

Ser. No. 333,037. JEWEL TEA CO., INC., Barrington, Ill. Filed Dec. 13, 1932.



Applicant is the owner of Reg. No. 83,693.
For Oat Cereal, Coffee, Tea, Rice, Shredded Cocoanut, Pure Vanilla Extract for Flavoring Food and Food Drinks, Lemon Extract for Flavoring Food and Food Drinks, Black Pepper, Baking Powder, Cocoa, Imitation Vanilla Extract for Flavoring Food and Food Drinks, Graham Crackers, Prepared Mustard, Peanut Butter, Spaghetti, Noodles, Macaroni, Gelatin, Mayonnaise, Salad Dressing, Butternut Cookies, Butter Crackers.
Claims use since December, 1925, on oat cereal; since June 30, 1923, on coffee; since May 29, 1923, on tea; since Sept. 10, 1923, on rice and shredded cocoanut; since July, 1924, on pure vanilla extract, lemon extract, black pepper, baking powder, and cocoa; since Sept. 6, 1930, on imitation vanilla extract; since July, 1924, on prepared mustard, peanut butter, spaghetti, noodles, and macaroni; since February, 1925, on gelatin; since May, 1926, on mayonnaise; since Aug. 20, 1932, on salad dressing; since January, 1932, on butternut cookies; since Mar. 26, 1927, on butter crackers; and since December, 1927, on graham crackers.

Ser. No. 333,226. D. GOLDENBERG, INC., Philadelphia, Pa. Filed Dec. 20, 1932.



For Candy.
Claims use since Sept. 4, 1928.

Ser. No. 336,605. F. & M. IMPORTING CO. INC., Los Angeles, Calif. Filed Apr. 10, 1933.



The terms "Brand" and "Los Angeles, Calif.", are disclaimed apart from the mark as shown in the drawing.
For Food Products—Namely, Olive Oil, Canned Fish, Canned Fruits, Canned Vegetables, Alimentary Pastes, Olives, Edible Oils, Tomato Paste.
Claims use since Jan. 1, 1933.

Ser. No. 338,843. NOBLESVILLE MILLING CO., Noblesville, Ind. Filed June 14, 1933.



For Wheat Flour.
Claims use since Nov. 22, 1932.

Ser. No. 340,042. FOELL PACKING COMPANY, doing business as Mascot Packing Co., Chicago, Ill. Filed July 24, 1933.

MASCOT



For Dog Foods.
Claims use since Apr. 21, 1933.

Ser. No. 340,644. FLORIDA CANNING CORPORATION, Tampa, Fla. Filed Aug. 12, 1933.

PRIDE of the GROVE

For Canned Grapefruit Juice for Food Purposes and Canned Grapefruit.
Claims use since Apr. 19, 1933.

Ser. No. 341,582. F. A. MARTOCCIO COMPANY, doing business as Hollywood Candy Co., Minneapolis, Minn. Filed Sept. 14, 1933.

RAIN

The lining on the drawing is for shading purposes only.
For Candy.
Claims use since Nov. 7, 1923.

Ser. No. 341,920. FLORAL CROWN FOOD CORPORATION, New York, N. Y. Filed Sept. 27, 1933.

FLORAL CROWN

For Egg Noodles.
Claims use since Feb. 24, 1933.

Ser. No. 343,178. KORBRO OIL CORPORATION, Brooklyn, N. Y. Filed Nov. 2, 1933.



Applicant disclaims all the words except "Silver Star" and "Korbro" apart from the mark as shown.
For Vegetable and Salad Oils.
Claims use since July 1, 1931.

Ser. No. 343,257. ELMER J. TAINTOR, doing business as Far North Potato Association, Park River, N. Dak. Filed Nov. 4, 1933.



The drawing is lined for red. No claim is made to the exclusive use of the letters "N. D." apart from the mark as shown.
For Food Products—Namely, Potatoes in Their Natural State.
Claims use since Aug. 15, 1928.

Ser. No. 343,666. V. VIVIANO & BROS., MACARONI MFG. CO., St. Louis, Mo. Filed Nov. 14, 1933.



The words "Grand Prize" are disclaimed apart from the mark as shown.
For Alimentary Pastes, Including Macaroni and Spaghetti.
Claims use since Sept. 12, 1912.

Ser. No. 344,418. MYRTILE CERF, San Francisco, Calif. Filed Dec. 4, 1933.



Orange Blossom

For Candies.
Claims use since Aug. 1, 1906.

Ser. No. 344,782. HYMAN HAHN, Brooklyn, N. Y. Filed Dec. 11, 1933.



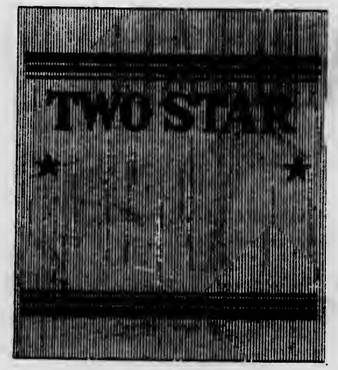
All wording except "Hahn" is disclaimed apart from the mark as shown.
For Packed Whipped Butter.
Claims use since September, 1931.

Ser. No. 344,788. THE KANSAS CITY MACARONI & IMPORTING COMPANY, doing business as The American Beauty Macaroni Company, Kansas City, Mo. Filed Dec. 11, 1933.

BO-NOODLES

No claim is made for the word "Noodles" apart from the mark shown.
For Noodles.
Claims use since June 1, 1933.

Ser. No. 344,924. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Dec. 13, 1933.



The drawing is lined for red, which is particularly claimed.
For Coffee.
Claims use since Nov. 20, 1933.

Ser. No. 345,209. LAKE GARFIELD NURSERIES CO., Bartow, Fla. Filed Dec. 21, 1933.

ALL THE WAY

For Fresh Citrus Fruits.
Claims use since Nov. 20, 1933.

Ser. No. 345,356. RUSSELL-MILLER MILLING CO., Minneapolis, Minn. Filed Dec. 26, 1933.



The drawing is lined for shading.
For Wheat Flour.
Claims use since Oct. 29, 1932.

Ser. No. 345,903. DWINELL-WRIGHT COMPANY, Boston, Mass. Filed Jan. 11, 1934.

AIREDALE



For Tea.
Claims use since July 23, 1914.

Ser. No. 345,923. FREDERICK WILLIAM THURNAU, Chicago, Ill. Filed Jan. 11, 1934.

SWISCONSIN

For Cheese.
Claims use since Jan. 6, 1934.

CLASS 47

Wines

Ser. No. 343,541. AMERICAN DISTILLERS CORPORATION, San Francisco, Calif. Filed Nov. 11, 1933.



The word "Normandie" on the drawing is disclaimed apart from the mark shown.
For Vermouth.
Claims use since Oct. 24, 1933.

Ser. No. 343,576. SOCIEDADE COMERCIAL ABEL PEREIRA DA FONSECA, Lisbon, Portugal. Filed Nov. 11, 1933.



For Wines.
Claims use since December, 1932.

Ser. No. 344,252. BARROS, ALMEIDA & CA., Villa Nova de Gaya, Portugal. Filed Nov. 29, 1933.



The drawing is lined for shading. No claim is made to the names "Barros, Almeida & Co." and "Oporto".
For Wines.
Claims use since December, 1923.

Ser. No. 344,867. RIVIERA WINE COMPANY, Washington, D. C. Filed Dec. 12, 1933.



RIVIERA WINE CO.

For Wines.
Claims use since Aug. 1, 1933.

Ser. No. 345,125. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Dec. 19, 1933.

GONZALEZ BYASS & Co
Jerez de la Frontera
"ROSA"

No claim is made to any of the words on the drawing with the exception of the word "Rosa."
For Wines.
Claims use since 1900.

Ser. No. 345,246. THE DAVIS BROTHERS DRUG COMPANY, Denver, Colo. Filed Dec. 22, 1933.



No claim is made to the word "Wine."
For Wines.
Claims use since Nov. 28, 1933.

Ser. No. 345,577. WINE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 2, 1934.

Old Master

For Still and Sparkling Wines.
Claims use since Dec. 6, 1933.

Ser. No. 345,774. KUNKELMANN & CIE, SOCIÉTÉ ANONYME, Reims, France. Filed Jan. 8, 1934. Under 10-year proviso.

ELITE

Binet Fils & Cie

Reims

CHAMPAGNE

For Champagne Wines.
Claims use since 1878.

Ser. No. 345,841. SINDICATO AGRICOLA ALELLA VINICOLA COOPERATIVA DE PRODUCCION Y VENTA, Alella, Spain. Filed Jan. 9, 1934.

MARFIL

For Wines.
Claims use since April, 1927.

CLASS 48

Malt Beverages and Liquors

Ser. No. 342,379. WIEDEMANN BREWERY CORPORATION, Newport, Ky. Filed Oct. 12, 1933.



Old Style
BOHEMIAN
WIEDEMANN
BEER

No claim is made to any of the words on the drawing nor to the representation of a label per se.
For Beer with Not More Than the Legal Alcoholic Content.
Claims use since Aug. 25, 1933.

Ser. No. 344,230. THE GENESEE BREWING CO., INC., Rochester, N. Y. Filed Nov. 28, 1933.





The drawing is lined for red. No claim is made to any words on the drawing with the exception of the corporate name of applicant.
For Ale.
Claims use since September, 1933.

Ser. No. 345,470. JACOB HORNUNG BREWING CO., Philadelphia, Pa. Filed Dec. 20, 1933.



For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since April, 1908.

Ser. No. 345,562. J. F. SMITH, doing business as Fritz Brewing Company, Freeport, Ill. Filed Jan. 2, 1934.

FRITZ

For Beer and Malt Beverages.
Claims use since Dec. 22, 1933.

Ser. No. 345,835. NORTH AMERICAN BREWING COMPANY, Brooklyn, N. Y. Filed Jan. 9, 1934.



The drawing is lined for shading only.
For Beer.
Claims use since Dec. 6, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 326,026. JACOB S. POLEFSKY, New York, N. Y. Filed Apr. 12, 1932.

Reichswehr

For Distilled Alcoholic Cordials and Liqueurs and/or Cordials and Liqueurs and/or Liqueurs Prepared or Fortified with Distilled Alcohol.
Claims use since July, 1930.

Ser. No. 341,296. N. V. LIKEURSTOKERIJ WIJNAND FOCKINK, Amsterdam, Netherlands. Filed Sept. 2, 1933.

WYNAND FOCKINK
AMSTERDAM
HOLLAND.
FOCKINK

The words "Amsterdam, Holland" are disclaimed apart from the mark as shown. The drawing is lined for shading. Applicant is owner of T. M. Reg. Nos. 309,082, and 309,083, effected under the 10-year proviso.
For Gin, Liqueurs, Bitters, Brandy, Cognac, Rum, and Arrack.
Claims use since 1899.

Ser. No. 342,408. ROBERT BOOTH, doing business as John Somerville & Company, Glasgow, Scotland. Filed Oct. 12, 1933.

JOHN SOMERVILLE & Co
DISTILLERS
TRADE MARK
THE PERFECTION OF
HIGHLAND WHISKY
SPECIAL LIQUEUR
LEITH, SCOTLAND
ESTABLISHED 1826

No claim is made to any of the matter shown on the drawings except the design of the griffin.
For Whisky.
Claims use since Sept. 14, 1892.

Ser. No. 343,353. LAIRD & COMPANY, Scobeyville and Eatontown, N. J. Filed Nov. 7, 1933.

BEST BET



For Brandy.
Claims use since Oct. 28, 1933.

Ser. No. 343,355. LAIRD & COMPANY, Scobeyville and Eatontown, N. J. Filed Nov. 7, 1933.

FOX HEAD



For Brandy.
Claims use since Oct. 23, 1933.

Ser. No. 343,453. JOHN JAMESON & SON, LIMITED, Dublin, Irish Free State. Filed Nov. 9, 1933.

JJ&S
EXTRA LIQUEUR Special
DUBLIN WHISKEY
John Jameson & Son
Distilled and Bottled by JOHN JAMESON & SON, Ltd.

No claim is made broadly to the words "Extra Liqueur Special Dublin Whiskey" and "Distilled and Bottled by" except in the association shown.
For Whiskey.
Claims use since June 4, 1932.

Ser. No. 343,620. GEORGE MORTON LIMITED, Dundee, Scotland. Filed Nov. 13, 1933.

Morton's
LIQUEUR
Old Scotch Whisky
GEORGE MORTON LTD
DUNDEE

No claim is made to the words "Liqueur", "Old Scotch Whisky", and "Dundee" apart from the mark shown.
For Whisky.
Claims use since Nov. 25, 1911.

Ser. No. 343,724. SANTIAGO MOLLFULLEDA CONGOST, New York, N. Y. Filed Nov. 16, 1933.

GRAN PARRAL

For Ethyl Alcohol, Brandies, and Other Potable Distilled Alcoholic Liquors.
Claims use since May 1, 1932.

Ser. No. 343,726. SANTIAGO MOLLFULLEDA CONGOST, New York, N. Y. Filed Nov. 16, 1933.

TIGRE

For Ethyl Alcohol, Brandies, and Other Potable Distilled Alcoholic Liquors.
Claims use since May 1, 1932.

Ser. No. 343,737. PHILIP FORSYTH LATIMER, doing business as Peter Forsyth & Co., Glasgow, Scotland. Filed Nov. 16, 1933.

FOURSOME

For Whisky.
Claims use since Feb. 17, 1925.

Ser. No. 344,464. B. C. COMPANY, LTD., New York, N. Y. Filed Dec. 5, 1933.

BEN COE

WHISKEY

B.C. COMPANY Ltd. BC

No claim is made to the words "Ben Coe" and "Whiskey" apart from the mark as shown.
For Whiskey, Brandy, and Other Potable Distilled Liquors.
Claims use since Nov. 17, 1933.

Ser. No. 344,586. FRANKFORT DISTILLERIES, INCORPORATED, Louisville, Ky. Filed Dec. 7, 1933.

KERRY PATCH

For Whiskey.
Claims use since Jan. 1, 1902.

Ser. No. 344,760. CHIVAS BROTHERS, Aberdeen, Scotland. Filed Dec. 11, 1933.

ROYAL GLENDEE

For Whisky.
Claims use since 1851.

Ser. No. 344,885. CONTINENTAL DISTILLERS & IMPORTERS CORPORATION, New York, N. Y. Filed Dec. 13, 1933.

Manor Club

No claim is made to the word "Club".
For Whiskey.
Claims use since Dec. 7, 1933.

Ser. No. 344,886. CONTINENTAL DISTILLERS & IMPORTERS CORPORATION, New York, N. Y. Filed Dec. 13, 1933.

MAPLE LEAF

For Whiskey.
Claims use since Dec. 7, 1933.

Ser. No. 344,887. CONTINENTAL DISTILLERS & IMPORTERS CORPORATION, New York, N. Y. Filed Dec. 13, 1933.

MEADOW LANE

For Whiskey.
Claims use since Dec. 7, 1933.

Ser. No. 344,888. CONTINENTAL DISTILLERS & IMPORTERS CORPORATION, New York, N. Y. Filed Dec. 13, 1933.

OLD TRAIL

For Whiskey.
Claims use since Dec. 7, 1933.

Ser. No. 344,889. CONTINENTAL DISTILLERS & IMPORTERS CORPORATION, New York, N. Y. Filed Dec. 13, 1933.

PATHFINDER

For Whiskey.
Claims use since Dec. 7, 1933.

Ser. No. 344,890. CONTINENTAL DISTILLERS & IMPORTERS CORPORATION, New York, N. Y. Filed Dec. 13, 1933.

Romany Rye

Applicant disclaims the word "Rye".
For Whiskey.
Claims use since Dec. 7, 1933.

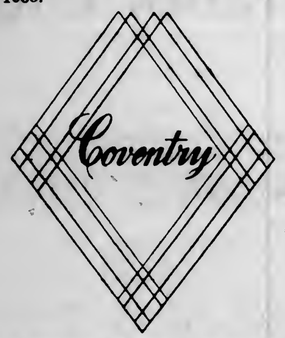
Ser. No. 345,102. ROBERT GOLDENBERG, doing business as Sphinx Distributing Company, Los Angeles, Calif. Filed Dec. 19, 1933.

SPHINX



For Whiskey.
Claims use since Dec. 5, 1933.

Ser. No. 345,110. KOLMAR, INC., Cincinnati, Ohio. Filed Dec. 19, 1933.



No claim is made to the mark "Coventry" apart from the trade-mark as shown on the drawing.
For Whiskey, Brandy, Gin, Rum, and Other Potable Distilled Spirits.
Claims use since Dec. 6, 1933.

Ser. No. 345,120. THE OLD QUAKER COMPANY, New York, N. Y. Filed Dec. 19, 1933. Under 10-year proviso.

LONDON DOCK

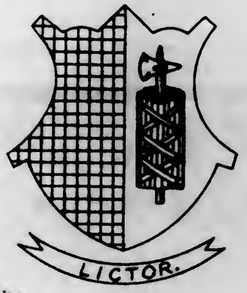
For Gin, Whiskey, and Other Potable Distilled Spirits.
Claims use since 1879.

Ser. No. 345,128. UNIVERSAL DISTILLERS, INC., Los Angeles, Calif. Filed Dec. 19, 1933.

OLD TAVERN

For Gin.
Claims use since Nov. 27, 1933.

Ser. No. 345,129. JAMES WATSON & CO. LIMITED, Dundee, Scotland. Filed Dec. 19, 1933.



For Whisky.
Claims use since 1899.

Ser. No. 345,164. KOLMAR, INC., Cincinnati, Ohio. Filed Dec. 20, 1933.

GOLDEN GLOE

For Whiskey, Brandy, Gin, Rum, and Other Potable Distilled Spirits.
Claims use since Dec. 4, 1932.

Ser. No. 345,166. LASH, INC., San Francisco, Calif. Filed Dec. 20, 1933.

Comanche

For Whiskey.
Claims use since Dec. 5, 1933.

Ser. No. 345,167. LASH, INC., San Francisco, Calif. Filed Dec. 20, 1933.

King's Guard

For Gin.
Claims use since Dec. 5, 1933.

Ser. No. 345,168. LASH, INC., San Francisco, Calif. Filed Dec. 20, 1933.

Iroquois

For Whiskey.
Claims use since Dec. 5, 1933.

Ser. No. 345,180. L. SPEIDEL & CO., INC., Boston, Mass. Filed Dec. 20, 1933.

MARLOWES



For Gin and Other Potable Distilled Spirits.
Claims use since Dec. 8, 1933.

Ser. No. 345,181. THE GEO. T. STAGG CO., Frankfort, Ky. Filed Dec. 20, 1933.

SILVER GROVE

For Whiskey and Other Potable Distilled Spirits.
Claims use since June, 1916.

Ser. No. 345,185. TONKIN DISTRIBUTING CO., San Francisco, Calif. Filed Dec. 20, 1933.

Old Kentucky Derby

For Whiskey and Other Potable Distilled Spirits.
Claims use since Nov. 6, 1933.

Ser. No. 345,186. TONKIN DISTRIBUTING CO., San Francisco, Calif. Filed Dec. 20, 1933.

Pine Ridge

For Whiskey and Other Potable Distilled Spirits.
Claims use since Oct. 8, 1929.

Ser. No. 345,192. AMERICAN-STEWART DISTILLERY, INC., Baltimore, Md. Filed Dec. 21, 1933. Under 10-year proviso.



For Whiskey.
Claims use since May, 1894.

Ser. No. 345,199. FRIEDMAN, KEILER & COMPANY, INCORPORATED, Paducah, Ky. Filed Dec. 21, 1933.

Friedman Keiler & Co.

Trade-mark consists in the signature of applicant's predecessor as written by Jos. L. Friedman, a member of the firm.
For Whiskey and Gin.
Claims use since Jan. 1, 1895.

Ser. No. 345,221. SCHENLEY PRODUCTS COMPANY, New York, N. Y. Filed Dec. 21, 1933.

COLLEGE CLUB

The word "Club" is disclaimed apart from the mark as shown.
For Whiskey and Other Potable Distilled Spirits.
Claims use since 1905.

Ser. No. 345,241. COLONIAL DISTILLING AND DISTRIBUTING CORPORATION, New York, N. Y. Filed Dec. 22, 1933.

SEVERN

For Whiskey.
Claims use since Dec. 12, 1933.

Ser. No. 345,243. COLONIAL DISTILLING AND DISTRIBUTING CORPORATION, New York, N. Y. Filed Dec. 22, 1933.

Quaker Town

For Whiskey.
Claims use since Dec. 12, 1933.

Ser. No. 345,280. HIRAM WALKER & SONS, INC., Peoria, Ill. Filed Dec. 22, 1933.

GAYOSO

For Gin and/or Other Potable Distilled Spirits. Claims use since 1899.

Ser. No. 345,281. HIRAM WALKER & SONS, INC., Peoria, Ill. Filed Dec. 22, 1933.

Meadow Brook

For Whiskey, and/or Other Potable Distilled Spirits. Claims use since 1899.

Ser. No. 345,331. COLONIAL DISTILLING AND DISTRIBUTING CORPORATION, New York, N. Y. Filed Dec. 26, 1933.

NEW YORKER

For Gin. Claims use since Dec. 12, 1933.

Ser. No. 345,362. WILKINSON & MUHM, San Francisco, Calif. Filed Dec. 26, 1933.

MELLOW GOLD

For Whiskey. Claims use since Dec. 6, 1933.

Ser. No. 345,363. WILKINSON & MUHM, San Francisco, Calif. Filed Dec. 26, 1933.

WESTWARD HO

For Whiskey. Claims use since Dec. 6, 1933.

Ser. No. 345,398. JAS. E. PEPPER & COMPANY, Lexington, Ky., and New York, N. Y. Filed Dec. 27, 1933. Under 10-year proviso.

VANARSDELL

For Whiskey and Other Potable Distilled Spirits. Claims use since 1869.

Ser. No. 345,423. CHARLES KOBERT, doing business as Charles Kobert and Company, Lebanon, Ky. Filed Dec. 28, 1933.

Rolling Fork

For Whiskey. Claims use since 1876.

Ser. No. 345,424. LA MADELON IMPORTING COMPANY, Boston, Mass. Filed Dec. 28, 1933.



JOHN ALDEN

For Gin and Other Potable Distilled Spirits. Claims use since Dec. 26, 1933.

Ser. No. 345,461. COLONIAL DISTILLING & DISTRIBUTING CORPORATION, New York, N. Y. Filed Dec. 29, 1933.



DANIEL BOONE

For Whiskey. Claims use since Dec. 7, 1933.

Ser. No. 345,463. COLONIAL DISTILLING & DISTRIBUTING CORPORATION, New York, N. Y. Filed Dec. 29, 1933.

The Original 13 States

For Whiskey. Claims use since Dec. 12, 1932.

Ser. No. 345,466. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND TRADING INTO HUDSON'S BAY, doing business as Hudson's Bay Company, London, England, and Winnipeg, Manitoba, Canada. Filed Dec. 29, 1933. Under 10-year proviso.



Hudson's Bay Company.

For Whiskey. Claims use since 1891.

Ser. No. 345,467. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND TRADING INTO HUDSON'S BAY, doing business as Hudson's Bay Company, London, England, and Winnipeg, Manitoba, Canada. Filed Dec. 29, 1933. Under 10-year proviso.



Hudson's Bay Company.

For Gin. Claims use since 1891.

Ser. No. 345,468. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND TRADING INTO HUDSON'S BAY, doing business as Hudson's Bay Company, London, England, and Winnipeg, Manitoba, Canada. Filed Dec. 29, 1933. Under 10-year proviso.



Hudson's Bay Company.

For Brandy. Claims use since 1890.

Ser. No. 345,469. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND TRADING INTO HUDSON'S BAY, doing business as Hudson's Bay Company, London, England, and Winnipeg, Manitoba, Canada. Filed Dec. 29, 1933.



For Brandy. Claims use since 1910.

Ser. No. 345,494. JOHN BARDENHEIER WINE & LIQUOR CO., St. Louis, Mo. Filed Dec. 30, 1933.

CASINO

For Whiskey. Claims use since 1892.

Ser. No. 345,495. JOHN BARDENHEIER WINE & LIQUOR CO., St. Louis, Mo. Filed Dec. 30, 1933.

PROGRESS

For Whiskey. Claims use since 1889.

Ser. No. 345,543. COLONIAL DISTILLING AND DISTRIBUTING CORPORATION, New York, N. Y. Filed Jan. 2, 1934.

CRYSTAL FORD

For Whiskey. Claims use since Dec. 28, 1933.

Ser. No. 345,566. STAR DISTRIBUTORS, INC., New York, N. Y. Filed Jan. 2, 1934.

FIRST AMERICAN

For Blended Whiskey. Claims use since Dec. 22, 1933.

Ser. No. 345,567. STAR DISTRIBUTORS, INC., New York, N. Y. Filed Jan. 2, 1934.

House of Savoy

For Blended Whiskey. Claims use since Dec. 22, 1933.

Ser. No. 345,579. CONTINENTAL DISTILLERS & IMPORTERS CORPORATION, New York, N. Y. Filed Dec. 29, 1933.

Old Stalwart

For Whiskey.
Claims use since Dec. 14, 1933.

Ser. No. 345,580. CONTINENTAL DISTILLERS & IMPORTERS CORPORATION, New York, N. Y. Filed Dec. 29, 1933.

BARRISTER

For Whiskey.
Claims use since Dec. 14, 1933.

Ser. No. 345,587. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND TRADING INTO HUDSON'S BAY, doing business as Hudson's Bay Company, London, England, and Winnipeg, Manitoba, Canada. Filed Jan. 2, 1934. Under 10-year proviso.

THE GOVERNOR AND COMPANY OF
Adventurers of England
TRADING INTO HUDSONS BAY
Best Procurable
FINEST OLD HIGHLAND WHISKY
Quality guaranteed by
Hudson's Bay Company
PRODUCE OF AND BOTTLED IN SCOTLAND CONTENTS 26⅔ OUNCES

For Whisky.
Claims use since 1891.

Ser. No. 345,614. E. L. SPELLMAN CO. INC., Hoboken, N. J. Filed Jan. 3, 1934. Under 10-year proviso.

BARTON

For Brandy.
Claims use since 1880.

Ser. No. 345,615. STAR DISTRIBUTORS, INC., New York, N. Y. Filed Jan. 3, 1934.

ALL AMERICAN

For Blended Whiskey.
Claims use since Dec. 22, 1933.

Ser. No. 345,620. JOS. S. FINCH & COMPANY, Schenley, Pa., and New York, N. Y. Filed Jan. 4, 1934.

BUCKEYE

For Whiskey and Other Potable Distilled Spirits.
Claims use since Dec. 13, 1932.

Ser. No. 345,626. HOOSIER DISTILLERY CO., Schenley, Pa., and New York, N. Y. Filed Jan. 4, 1934.

HOOSIER

For Whiskey and Other Potable Distilled Spirits.
Claims use since Dec. 12, 1933.

Ser. No. 345,662. FRANKFORT DISTILLERIES, INCORPORATED, Louisville, Ky. Filed Jan. 5, 1934.

JERRY THOMAS



For Gin.
Claims use since Nov. 21, 1933.

Ser. No. 345,677. MISSION DRY CORPORATION, New York, N. Y. Filed Jan. 5, 1934.

AULD SCOTTY

For Whiskey.
Claims use since Dec. 27, 1933.

Ser. No. 345,678. MISSION DRY CORPORATION, New York, N. Y. Filed Jan. 5, 1934.

MILLBROOK

For Whiskey.
Claims use since Dec. 27, 1933.

Ser. No. 345,686. E. L. SPELLMAN CO. INC., Hoboken, N. J. Filed Jan. 5, 1934.

LONE EAGLE

For Whiskey.
Claims use since 1900.

Ser. No. 345,688. E. L. SPELLMAN CO. INC., Hoboken, N. J. Filed Jan. 5, 1934.

GRAND SLAM

For Whiskey.
Claims use since 1900.

Ser. No. 345,700. SAMUEL BRASS, Belleville, N. J. Filed Jan. 6, 1934.

BELLE CLAIRE

For Dry Gin.
Claims use since Dec. 20, 1933.

Ser. No. 345,745. PHILIP BLUM & COMPANY, INC., Chicago, Ill. Filed Jan. 8, 1934.



For Whiskey, Gin, Rum, Brandy, and Other Potable Distilled Spirits.
Claims use since Jan. 15, 1931.

Ser. No. 345,760. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Jan. 8, 1934.

CLAY BROOK

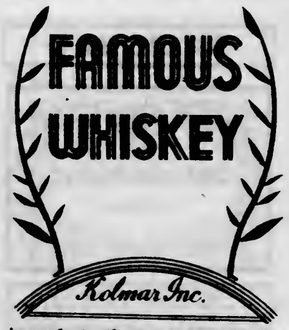
For Whiskey and Other Potable Distilled Spirits.
Claims use since Mar. 4, 1930.

Ser. No. 345,772. KOLMAR, INC., Cincinnati, Ohio. Filed Jan. 8, 1934.



No claim is made to the words "The Best Brand" apart from the mark shown in the drawing. The drawing is lined for red.
For Whiskey, Brandy, Gin, Rum, and Other Potable Distilled Liquors.
Claims use since Dec. 6, 1933.

Ser. No. 345,773. KOLMAR, INC., Cincinnati, Ohio. Filed Jan. 8, 1934.



No claim is made to the word "Whiskey" apart from the mark as shown in the drawing.
For Whiskey, Brandy, Gin, Rum, and Other Potable Distilled Spirts.
Claims use since Dec. 6, 1933.

Ser. No. 345,784. MISSION DRY CORPORATION, New York, N. Y. Filed Jan. 8, 1934.

MYSTERY

For Alcoholic Cocktails.
Claims use since Jan. 3, 1934.

Ser. No. 345,846. UNION DES PROPRIETAIRES DISTILLATEURS, Cognac, France. Filed Jan. 9, 1934. Under 10-year proviso.



For Brandy.
Claims use since Jan. 1, 1895.

Ser. No. 345,847. UNION DES PROPRIETAIRES DISTILLATEURS, Cognac, France. Filed Jan. 9, 1934. Under 10-year proviso.



HENRI ROY & Cº

COGNAC

For Brandy.
Claims use since Jan. 1, 1895

Ser. No. 345,848. UNION DES PROPRIETAIRES DISTILLATEURS, Cognac, France. Filed Jan. 9, 1934. Under 10-year proviso.

SALIGNAC



For Brandy.
Claims use since Jan. 1, 1895.

Ser. No. 345,858. CROIZET, EYMARD & CIE, Saint-Meme-Cognac, France. Filed Jan. 10, 1934. Under 10-year proviso.

J. MATTE & Cº

For Brandy, Cognacs.
Claims use since 1892.

Ser. No. 345,859. CROIZET, EYMARD & CIE, Saint-Meme-Cognac, France. Filed Jan. 10, 1934. Under 10-year proviso.

POL LOQUESSY & FILS

For Brandy, Cognacs.
Claims use since 1890.

Ser. No. 345,862. JOHN E. FELLS & SONS LIMITED, London, England. Filed Jan. 10, 1934. Under 10-year proviso.

FELLS

For Whisky, Gin, Rum, Brandy, and Other Potable Spirits.
Claims use since 1859.

Ser. No. 345,985. L. SPEIDEL & CO., INC., Boston, Mass. Filed Jan. 12, 1934.

Grant '63

For Whiskey and Other Potable Distilled Spirits.
Claims use since Jan. 5, 1934.

Ser. No. 346,002. JOS. S. FINCH & COMPANY, Schenley, Pa. Filed Jan. 13, 1934.

CORONATION

For Whiskey, Gin, Rum, Brandy, and Other Potable Distilled Spirits.
Claims use since Dec. 13, 1933.

Ser. No. 346,033. LEONARD GORDON IMPORTATION CO. INC., New York, N. Y. Filed Jan. 15, 1934.

Grand Slam

For Whiskey and Gin.
Claims use since Dec. 26, 1933.

Ser. No. 346,214. PENNSYLVANIA DISTILLING CO. INC., doing business as Pennsylvania Distillery, Inc., Loganspert, Pa., and Brooklyn, N. Y. Filed Jan. 18, 1924.

Pendisco

For Whiskey and Other Potable Spirits.
Claims use since 1920.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 342,656. KUNDEL & BRAUN, INC., Hoboken, N. J. Filed Oct. 19, 1933.



For Braided Rope Mats.
Claims use since Sept. 1, 1933.

CARNEGIE LIBRARY OF ATLANTA

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

FEBRUARY 20, 1934

310,292. FERTILIZERS. SOILADE, INC., Lantana, Fla. Filed September 29, 1933. Serial No. 342,016. PUBLISHED DECEMBER 12, 1933. Class 10.

310,293. LIMBURGER CHEESE. HOWARD VAN VLECK, doing business as J. & H. Van Vleck, Westernville, N. Y.
Filed September 25, 1933. Serial No. 341,881. PUBLISHED DECEMBER 5, 1933. Class 46.

310,294. PREPARED FLOUR CONTAINING ALL THE INGREDIENTS OF GINGERBREAD. P. DUFF & SONS, INC., Pittsburgh, Pa.
Filed September 27, 1933. Serial No. 341,918. PUBLISHED DECEMBER 5, 1933. Class 46.

310,295. PURIFIED OR DISTILLED WATER FOR INDUSTRIAL PURPOSES. NATIONAL PURE WATER CORPORATION, Des Moines, Iowa.
Filed September 16, 1933. Serial No. 341,637. PUBLISHED DECEMBER 12, 1933. Class 45.

310,296. MACHINE WHICH AUTOMATICALLY DISPLAYS TWENTY-FOUR GARMENTS OR OTHER ARTICLES IN ROTATION. REYNOLDS DISPLAMOR CORP., Chicago, Ill.
Filed September 20, 1933. Serial No. 341,741. PUBLISHED DECEMBER 12, 1933. Class 32.

310,297. RICE. COMPAÑIA PRIMER MOLINO ARROCERO DE CUBA, S. A., Habana, Cuba.
Filed September 8, 1933. Serial No. 341,425. PUBLISHED DECEMBER 12, 1933. Class 46.

310,298. RELISH FOR MEAT AND POULTRY. JOHN L. CAVALLARO, doing business as J. L. Laro Co., San Francisco, Calif.
Filed September 11, 1933. Serial No. 341,476. PUBLISHED DECEMBER 12, 1933. Class 46.

310,299. AUTOMOBILE ACCESSORY IN THE FORM OF A QUICKLY ATTACHED EXTRA WHEEL. GERBEN-HECHT RIM WHEEL CORP., New York, N. Y.
Filed August 31, 1933. Serial No. 341,222. PUBLISHED DECEMBER 12, 1933. Class 19.

310,300. PAPER, PARTICULARLY HIGH-GRADE PAPERS—NAMELY, BOND PAPERS. VALLEY PAPER COMPANY, Holyoke, Mass.
Filed September 5, 1933. Serial No. 341,350. PUBLISHED DECEMBER 12, 1933. Class 37.

310,301. PROCESS PAINT COLORS. AULT & WIBORG CARBON & RIBBON CO. INC., Cincinnati, Ohio.
Filed August 25, 1933. Serial No. 341,011. PUBLISHED DECEMBER 5, 1933. Class 16.

310,302. TABLE COVERS MADE OF PYROXYLIN COATED FABRICS. COLUMBUS COATED FABRICS CORPORATION, Columbus, Ohio.
Filed August 28, 1933. Serial No. 341,073. PUBLISHED DECEMBER 12, 1933. Class 50.

310,303. ADVERTISING SIGNS CONSTRUCTED OF GLASS. UNIVERSAL SIGNS CORPORATION, New York, N. Y.
Filed October 28, 1932. Serial No. 331,657. PUBLISHED DECEMBER 12, 1933. Class 50.

310,304. RUM SYRUP FOR FLAVORING FOOD. BAKER EXTRACT CO., Springfield, Mass.
Filed December 9, 1932. Serial No. 332,909. PUBLISHED DECEMBER 5, 1933. Class 46.

310,305. GAS HEATING STOVES AND FURNACES. THE ESTATE STOVE COMPANY, Hamilton, Ohio.
Filed October 17, 1932. Serial No. 331,302. PUBLISHED DECEMBER 12, 1933. Class 34.

310,306. METAL COMPOSITIONS OR ALLOYS INCLUDING COPPER AND/OR ALUMINUM ADAPTED TO BE CAST, MOLDED, DRAWN, STAMPED, EXTRUDED, FORGED, ROLLED, WROUGHT, OR OTHERWISE FORMED OR FASHIONED INTO INGOTS, BARS, RODS, WIRE, SHEETS, AND INTO VARIOUS ARTICLES OF MANUFACTURE. NATIONAL FOAM SYSTEM, INC., Philadelphia, Pa.
Filed October 13, 1932. Serial No. 331,227. PUBLISHED DECEMBER 12, 1933. Class 14.

310,307. PUDDING AND PIE FILLING. ROYAL BAKING POWDER COMPANY, New York, N. Y.
Filed September 11, 1931. Serial No. 318,957. PUBLISHED DECEMBER 12, 1933. Class 46.

310,308. PASTEBOARD, CARDBOARD, WRITING PAPER, TYPEWRITING PAPER, WRAPPING PAPER, FANCY PAPER, ENVELOPE PAPER, DRAWING AND PRINTING PAPER, BLOTTING PAPER, TISSUE PAPER, IMITATION PARCHMENT AND VELLUM PAPER, CELLULOSE PAPER, CELLULOSE WADDING, PACKING PAPER, BAG PAPER, UNTREATED CIGARETTE PAPER, FILTER PAPER, WALL PAPER, WRITING BOOKS, FILING CARDS, POST CARDS, FLAT MAILING WRAPPERS, LETTER PAPER, ENVELOPES, BLANK SAMPLE DISPLAY BOOKS, NOTEBOOKS, NOTE BLOCKS, WOOD CELLULOSE LOOSE FIBRES FOR USE AS PACKING MATERIALS. ZELLSTOFFFABRIK WALDHOF, Mannheim-Waldhof, Germany.
Filed June 21, 1932. Serial No. 328,198. PUBLISHED DECEMBER 5, 1933. Class 37.

310,309. CATSUPS, VINEGARS, JELLIES, FRUIT AND BERRY PRESERVES, EDIBLE OILS, PICKLES, MUSTARD, HORSERADISH, CANE AND MAPLE SYRUPS, FLAVORING EXTRACTS FOR FOOD PURPOSES, CANNED VEGETABLES, CANNED FRUITS, CANNED MILK, TEAS, AND COFFEES. STEVENSON-BENKO CO., Chicago, Ill.
Filed August 20, 1931. Serial No. 318,259. PUBLISHED DECEMBER 5, 1933. Class 46.

310,310. PUDDING AND PIE FILLING. ROYAL BAKING POWDER COMPANY, New York, N. Y.
Filed September 11, 1931. Serial No. 318,956. PUBLISHED DECEMBER 12, 1933. Class 46.

310,311. WINES. BOHEMIAN DISTRIBUTING CO. LTD., Los Angeles, Calif.
Filed October 17, 1933. Serial No. 342,572. PUBLISHED DECEMBER 12, 1933. Class 47.

310,312. METAL POLISH. DAVID JULIUS MALACHOFF, doing business as Dason Products Company, Washington, D. C.
Filed October 17, 1933. Serial No. 342,589. PUBLISHED DECEMBER 12, 1933. Class 4.

310,313. COMMERCIAL TRAILERS. CURTISS AEROCAR COMPANY, INC., Coral Gables, Fla.
Filed October 18, 1933. Serial No. 342,610. PUBLISHED DECEMBER 12, 1933. Class 19.

310,314. FISHING RODS, REELS, FISH HOOKS, FISHING LINE, ETC. FLORIDA FISHING TACKLE MFG. CO. INC., St. Petersburg, Fla.
Filed October 16, 1933. Serial No. 342,534. PUBLISHED DECEMBER 12, 1933. Class 22.

310,315. CHOCOLATE YEAST CANDY. LORIN L. HOMER and HARRY PRICE, receivers of Chocco-Yeast Inc., Springfield, Mass.
Filed October 16, 1933. Serial No. 342,536. PUBLISHED DECEMBER 5, 1933. Class 46.

310,316. ENVELOPES OR BAGS OF TRANSPARENT OR SEMITRANSPARENT PAPER. BROWN PAPER GOODS COMPANY, Chicago, Ill.
Filed October 16, 1933. Serial No. 342,520. PUBLISHED DECEMBER 12, 1933. Class 2.

310,317. MAGAZINE PUBLISHED MONTHLY. BUSINESS JOURNALS, INC., New York, N. Y.
Filed October 16, 1933. Serial No. 342,521. PUBLISHED DECEMBER 12, 1933. Class 38.

310,318. SPARKLING WINES. GUSTAV MULLER, New York, N. Y.
Filed October 12, 1933. Serial No. 342,398. PUBLISHED DECEMBER 12, 1933. Class 47.

310,319. TABLE SYRUP. TYLER SYRUP COMPANY, INC., Tyler, Tex.
Filed October 13, 1933. Serial No. 342,460. PUBLISHED DECEMBER 5, 1933. Class 46.

310,320. MEDICINAL PREPARATION USED AS A LAXATIVE AND PURGATIVE. JOHN F. CONROY, doing business as Purgo Drug Co., Baltimore, Md.
Filed October 11, 1933. Serial No. 342,338. PUBLISHED NOVEMBER 28, 1933. Class 6.

310,321. HEATERS FOR COAL, WOOD, AND GAS. BRIDGE & BEACH MFG. CO., St. Louis, Mo.
Filed October 12, 1933. Serial No. 342,384. PUBLISHED DECEMBER 12, 1933. Class 34.

310,322. SAFETY RAZOR BLADES. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed October 9, 1933. Serial No. 342,267. PUBLISHED DECEMBER 12, 1933. Class 23.

310,323. COLORED WAX WOOD-POLISHES IN LIQUID AND PASTE FORM. ROSE L. BLACKMAN, doing business as The Colowax Company, Brooklyn, N. Y.
Filed October 10, 1933. Serial No. 342,306. PUBLISHED DECEMBER 5, 1933. Class 16.

310,324. FISH FOODS. S. S. KRESGE COMPANY, Detroit, Mich.
Filed October 6, 1933. Serial No. 342,186. PUBLISHED DECEMBER 5, 1933. Class 46.

310,325. TOY IN THE NATURE OF A PICTURE PUZZLE WHICH INCLUDES A PLURALITY OF BLOCKS HAVING PORTIONS OF PICTURES ON THEIR FACES. J. LANDOWNE COMPANY, INC., New York, N. Y.
Filed October 7, 1933. Serial No. 342,225. PUBLISHED DECEMBER 12, 1933. Class 22.

310,326. PLANT FERTILIZER WITH INCIDENTAL PROPERTIES AS A GERMICIDE. HENRY A. FISCHEL, INC., Philadelphia, Pa.
Filed October 4, 1933. Serial No. 342,127. PUBLISHED DECEMBER 12, 1933. Class 10.

310,327. FILES. NORVAL L. RHYNEARSON, Anderson, Ind.
Filed October 4, 1933. Serial No. 342,136. PUBLISHED DECEMBER 12, 1933. Class 23.

310,328. HONEY. HANS HEINRICH SCHUMACHER, Alhambra, Calif.
Filed September 30, 1933. Serial No. 342,022. PUBLISHED DECEMBER 5, 1933. Class 46.

310,329. ALES, BEERS, LAGERS, PORTERS, STOUTS, AND OTHER MALT LIQUORS OF NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. BREWING CORPORATION OF CANADA, LIMITED, Toronto, Ontario, Canada.
Filed October 2, 1933. Serial No. 342,057. PUBLISHED DECEMBER 12, 1933. Class 48.

310,330. ANVILS. ILLINOIS IRON & BOLT CO., Carpentersville, Ill.
Filed September 27, 1933. Serial No. 341,924. PUBLISHED DECEMBER 12, 1933. Class 14.

310,331. ICE COOLED OR ELECTRICALLY OPERATED WATER COOLERS. GREAT BEAR SPRING COMPANY, New York, N. Y.
Filed March 20, 1933. Serial No. 335,865. PUBLISHED DECEMBER 12, 1933. Class 31.

310,332. PREPARED PANCAKE FLOUR. THOR MANUFACTURING COMPANY, INC., Albany, N. Y.
Filed April 6, 1933. Serial No. 336,519. PUBLISHED DECEMBER 12, 1933. Class 46.

310,333. SOAPS. MAURICE MARKS, New York, N. Y.
Filed March 23, 1933. Serial No. 336,011. PUBLISHED DECEMBER 12, 1933. Class 4.

310,334. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. SCHULTHEISS-PATZENHOFER BRAUEREI-AKTIENGESELLSCHAFT, Berlin, Germany.
Filed May 2, 1933. Serial No. 337,401. PUBLISHED DECEMBER 12, 1933. Class 48.

310,335. COD-LIVER OIL, ETC. NOPCO LABORATORIES, INC., Harrison, N. J., assignor to National Oil Products Company, Harrison, N. J., a Corporation of New Jersey.
Filed April 22, 1933. Serial No. 337,082. PUBLISHED AUGUST 8, 1933. Class 6.

310,336. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. SCHULTHEISS-PATZENHOFER BRAUEREI-AKTIENGESELLSCHAFT, Berlin, Germany.
Filed May 3, 1933. Serial No. 337,443. PUBLISHED DECEMBER 12, 1933. Class 48.

310,337. DUMBWAITERS DRIVEN BY ELECTRIC MOTORS AND CHAINS AND CONTROLLED BY ELECTROMAGNETIC BRAKES AND CONTROL SWITCHES, AND PARTS THEREOF. SEDGWICK MACHINE WORKS, INC., Poughkeepsie and New York, N. Y.
Filed May 1, 1933. Serial No. 337,359. PUBLISHED DECEMBER 12, 1933. Class 28.

310,338. LETTERHEADS AND BLANK FORMS. UNIVERSAL CREDIT CORPORATION, Detroit, Mich.
Filed May 12, 1933. Serial No. 337,767. PUBLISHED DECEMBER 5, 1933. Class 37.

310,339. WINES. PIERRE JOSEPH D'HARSE, Paris, France, assignor to Georges de Ruyter, Paris, France.
Filed May 5, 1933. Serial No. 337,508. PUBLISHED DECEMBER 12, 1933. Class 47.

310,340. CANNED, DRIED, PRESERVED AND EVAPORATED FRUITS, CANNED AND DRIED VEGETABLES, ETC. CENTRAL CO-OPERATIVE WHOLESALE, Superior, Wis.
Filed June 3, 1933. Serial No. 339,486. PUBLISHED NOVEMBER 28, 1933. Class 46.

310,341. REDEEMABLE COUPONS. SECURITY ADVERTISING COUPON COMPANY, Decatur, Ill.
Filed May 25, 1933. Serial No. 338,229. PUBLISHED DECEMBER 12, 1933. Class 38.

310,342. WINES AND CHAMPAGNE. ALFRED PRIEUR, doing business as Ch. & A. Prieur, Vertus, France.
Filed June 28, 1933. Serial No. 339,325. PUBLISHED DECEMBER 12, 1933. Class 47.

310,343. WATCHES AND CLOCKS. HAMILTON WATCH COMPANY, Lancaster, Pa.
Filed June 12, 1933. Serial No. 338,776. PUBLISHED DECEMBER 12, 1933. Class 27.

310,344. WOOD FILLER FOR CRACKS AND CREVICES. G. J. LIEBICH CO., Chicago, Ill.
Filed July 3, 1933. Serial No. 339,466. PUBLISHED DECEMBER 5, 1933. Class 16.

310,345. RUBBERIZED CORD AND FABRIC BELTS. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio.
Filed July 3, 1933. Serial No. 339,451. PUBLISHED DECEMBER 12, 1933. Class 35.

310,346. ALL KINDS OF WATCHES AND PARTS THEREOF. COMPTOIR GÉNÉRAL DE VENTE DE LA MONTRE ROSKOPF, SOCIÉTÉ ANONYME VVE CHS. LÉON SCHMID & CIE, La Chaux-de-Fonds, Switzerland.
Filed July 19, 1933. Serial No. 339,889. PUBLISHED DECEMBER 12, 1933. Class 27.

310,347. READY-MIXED PAINTS, VARNISHES: WHITE COMPOUND PREPARATION COMPOSED OF MANILA, GUM, WAX, PIGMENT, AND ALCOHOL; PREPARED SHELLAC, VARNISH REMOVER, LACQUER, BRONZING LIQUID, FURNITURE POLISH, AND FLOOR POLISH. TWIN CITY SHELLAC CO. INC., Brooklyn, N. Y.
Filed July 8, 1933. Serial No. 339,592. PUBLISHED DECEMBER 5, 1933. Class 16.

310,348. MEN'S AND BOYS' DRESS, NEGLIGEE AND WORK SHIRTS. WILLIAM ATKIN CO., INC., New York, N. Y.
Filed August 3, 1933. Serial No. 340,337. PUBLISHED NOVEMBER 21, 1933. Class 39.

310,349. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT AND EXTRACTS THEREFOR. JAMES EVERARD'S COMPANIES, INC., New York, N. Y.
Filed July 25, 1933. Serial No. 340,087. PUBLISHED DECEMBER 12, 1933. Class 48.

310,350. CORN SYRUPS, CORN SUGARS; GRITS AND FLAKES, BEING IN THE NATURE OF MALT-ADJUNCTS, USED FOR FOOD PURPOSES. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed August 14, 1933. Serial No. 340,672. PUBLISHED DECEMBER 5, 1933. Class 46.

310,351. BEVERAGE COOLING AND DISPENSING CABINETS. LION MANUFACTURING CORPORATION, Chicago, Ill.
Filed August 12, 1933. Serial No. 340,651. PUBLISHED DECEMBER 12, 1933. Class 31.

310,352. GOLF BALLS. GOLF BALL, INC., Chicago, Ill.
Filed August 19, 1933. Serial No. 340,841. PUBLISHED NOVEMBER 28, 1933. Class 22.

310,353. SERIES OF CARTOONS. EDWARD FRANK MACK, New York, N. Y.
Filed August 16, 1933. Serial No. 340,745. PUBLISHED DECEMBER 5, 1933. Class 38.

310,354. CARD GAME. PARKER BROTHERS INC., Portland, Maine, and Salem, Mass.
Filed October 19, 1933. Serial No. 342,666. PUBLISHED DECEMBER 12, 1933. Class 22.

310,355. JUGS, MUGS, CHILDREN'S EATING BOWLS, DISHES, PLATES, AND CUPS, ALL MADE OF EARTHENWARE AND PORCELAIN. EDGAR RICE BURROUGHS, INC., Tarzana, Calif.
Filed October 19, 1933. Serial No. 342,642. PUBLISHED DECEMBER 12, 1933. Class 30.

310,356. SOAP, DRY CLEANER, ETC. EDGAR RICE BURROUGHS, INC., Tarzana, Calif.
Filed October 19, 1933. Serial No. 342,637. PUBLISHED DECEMBER 12, 1933. Class 4.

310,357. STILL AND SPARKLING WINES. SOCIETE ANONYME ALLIANCE VINICOLE DE BOURGOGNE, Bourgogne, France.
Filed October 19, 1933. Serial No. 342,672. PUBLISHED DECEMBER 12, 1933. Class 47.

310,358. STILL AND SPARKLING WINES. SOCIETE ANONYME ALLIANCE VINICOLE DE BOURGOGNE, Bourgogne, France.
Filed October 19, 1933. Serial No. 342,671. PUBLISHED DECEMBER 12, 1933. Class 47.

310,359. PAPERBOARD WARDROBE CLOSETS. QUICK SERVICE BOX COMPANY, INC., New York, N. Y.
Filed October 20, 1933. Serial No. 342,704. PUBLISHED DECEMBER 12, 1933. Class 2.

310,360. EMPTY CARTONS. DERST BAKING COMPANY, Savannah, Ga.
Filed October 20, 1933. Serial No. 342,690. PUBLISHED DECEMBER 5, 1933. Class 2.

310,361. BEER, LAGER BEER, ALE AND PORTER OF NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. BRADFORD BEER CORPORATION, Bradford, Pa.
Filed October 21, 1933. Serial No. 342,729. PUBLISHED DECEMBER 12, 1933. Class 48.

310,362. PAPERBOARD SET-UP PLAY HOUSES. QUICK SERVICE BOX COMPANY, INC., New York, N. Y.
Filed October 20, 1933. Serial No. 342,705. PUBLISHED DECEMBER 12, 1933. Class 22.

310,363. TOILET PAPER, PAPER TOWELS, PAPER NAPKINS, AND CREPE PAPER. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed October 21, 1933. Serial No. 342,752. PUBLISHED DECEMBER 5, 1933. Class 37.

310,364. TOILET PAPER, PAPER TOWELS, PAPER NAPKINS, AND CREPE PAPER. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed October 21, 1933. Serial No. 342,753. PUBLISHED DECEMBER 5, 1933. Class 37.

310,365. SPOOLS FOR THREAD AND YARNS. NATIONAL VULCANIZED FIBRE COMPANY, Wilmington, Del.
Filed October 24, 1933. Serial No. 342,848. PUBLISHED DECEMBER 12, 1933. Class 2.

310,366. TITLE FOR A COLUMN APPEARING REGULARLY, EXCEPT ON TUESDAYS, IN THE WASHINGTON POST, A NEWSPAPER PUBLISHED BY IT. THE WASHINGTON POST PUBLISHING COMPANY, Washington, D. C.
Filed October 21, 1933. Serial No. 342,773. PUBLISHED DECEMBER 5, 1933. Class 38.

310,367. MANICURE IMPLEMENTS, SETS, AND KITS, INCLUDING ABSORBENT COTTON AND GAUZE. CAMPANA CORPORATION, Batavia, Ill.
Filed October 30, 1933. Serial No. 343,027. PUBLISHED DECEMBER 12, 1933. Class 44.

310,368. WOODEN TOYS—NAMELY, BOATS, BOAT HOUSES, DOCKS, SLIPS, BUOYS, LIGHT HOUSES, AND HUMAN AND ANIMAL FIGURES. TILLICUM SALES CORPORATION, doing business as Tillicum, Inc., New York, N. Y.
Filed October 27, 1933. Serial No. 342,985. PUBLISHED DECEMBER 12, 1933. Class 22.

310,369. PORT WINE. DELAFORCE SONS & CO., Vila Nova de Gaya, Portugal.
Filed November 1, 1933. Serial No. 343,114. PUBLISHED DECEMBER 12, 1933. Class 47.

310,370. WINES. ZUCKER, STEIN & CO., Newark, N. J.
Filed October 31, 1933. Serial No. 343,100. PUBLISHED DECEMBER 12, 1933. Class 47.

310,371. TOILET SOAP. BOURJOIS, INC., New York, N. Y.
Filed November 1, 1933. Serial No. 343,146. PUBLISHED DECEMBER 12, 1933. Class 4.

310,372. WINES. EDUARD SAARBACH & CO., Mayence-on-Rhine, Germany.
Filed November 1, 1933. Serial No. 343,138. PUBLISHED DECEMBER 12, 1933. Class 47.

310,373. FISH LURES. E. H. PECKINPAUGH, doing business as E. H. Peckinpaugh Company, Chattanooga, Tenn.
Filed November 4, 1933. Serial No. 343,251. PUBLISHED DECEMBER 12, 1933. Class 22.

310,374. WINES. R. H. MACY & CO., INC., New York, N. Y.
Filed November 2, 1933. Serial No. 343,179. PUBLISHED DECEMBER 12, 1933. Class 47.

310,375. KNIVES, FORKS, SPOONS, SERVERS, LADLES, SCOOPS, SUGAR TONGS, GAME SHEARS, TABLE STEELS, AND SIMILAR ARTICLES OF FLAT TABLEWARE OF NON-PRECIOUS METAL. ONEIDA COMMUNITY LIMITED, Sherrill and Oneida, N. Y.; Northampton, Mass.; Niagara Falls and Toronto, Ontario, Canada.
Filed January 3, 1933. Serial No. 333,602. PUBLISHED DECEMBER 12, 1933. Class 23.

310,376. MAPS OR CHARTS. EGBERT R. MORRISON, Cleveland Heights, Ohio.
Filed December 31, 1932. Serial No. 333,559. PUBLISHED DECEMBER 5, 1933. Class 38.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

310,377. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) BARKER BROS. INCORPORATED, Los Angeles, Calif. Filed Mar. 23, 1931. Serial No. 312,407.

"CALIFORNIA-COLONIAL"

For Crockery, Earthenware, and Chinaware—Namely, Dinner Sets, Breakfast Sets, Coffee Sets, Tea Sets, Vases, Bowls, Jardinieres, and Lamp Vases.
Claims use since Feb. 1, 1931.

310,378. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Apr. 17, 1933. Serial No. 336,876.

SAFECOTE

For Wires and Cables for Electrical Use.
Claims use since Jan. 1, 1933.

310,379. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) EVELYN JAHNCKE, New Orleans, La. Filed June 28, 1932. Serial No. 328,356.

VANI-TEE

For Ladies' Hand Bags.
Claims use since Mar. 23, 1932.

310,380. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INSULAR SUGAR REFINING CORP., Manila, P. I., and New York, N. Y. Filed Jan. 18, 1933. Serial No. 334,060.

QUICKMELT

For Sugar.
Claims use since Dec. 23, 1932.

310,381. (CLASS 45. BEVERAGES, NONALCOHOLIC.) BOHEMIAN DISTRIBUTING CO. LTD., Los Angeles, Calif. Filed Apr. 25, 1932. Serial No. 326,454.

WIZARD

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks, and Syrups, Extracts, and Concentrates for Making the Same.
Claims use since Mar. 7, 1932.

310,382. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED STATES ELECTRICAL MANUFACTURING COMPANY, Los Angeles, Calif. Filed Feb. 7, 1933. Serial No. 334,722.

SYNCROGEAR

For Electrical Power Units Consisting of an Electric Motor and a Reduction Transmission.
Claims use since Dec. 6, 1932.

310,383. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED STATES ELECTRICAL MANUFACTURING COMPANY, Los Angeles, Calif. Filed Feb. 7, 1933. Serial No. 334,721.

VARIDRIVE

For Electrical Power Units Consisting of an Electric Motor and a Reduction Transmission.
Claims use since Dec. 13, 1932.

310,384. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ELLIOTT PAINT & VARNISH CO., Chicago, Ill. Filed July 17, 1933. Serial No. 339,818.

WHITE VENEER

For Ready-Mixed Paint.
Claims use since Jan. 5, 1933.

310,385. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE OHIO CUSHION PLATE COMPANY, Cleveland, Ohio. Filed May 18, 1933. Serial No. 337,967.

OHIO

For Clutch Parts and Machines for Assembling and Rebuilding Clutches.
Claims use since Apr. 1, 1931.

310,386. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JENKINS BROS., New York, N. Y. Filed Sept. 2, 1933. Serial No. 341,289.

TITE-PAC

For Jar Rings Particularly Made of Rubber.
Claims use since Dec. 21, 1932.

310,387. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL E. SCHMIDT & SON, Farina, Ill. Filed July 29, 1933. Serial No. 340,243.

FARINA KERNEL GRITS

Carl E. Schmidt & Son

For Whole Wheat Cereal Breakfast Food.
Claims use since July 1, 1932.

310,388. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STACKPOLE CARBON COMPANY, St. Marys, Pa. Filed Oct. 27, 1933. Serial No. 342,982.

STACKPOLE

For Carbon Graphite and Metal Graphite Brushes for Electrical Machinery, Carbon and Graphite Contacts, Silver and Molybdenum Contacts, Lightning Arrester Discs, Carbon Battery Fillers, Dry Cell Carbons, Breaker Contacts, Electrolytic Anodes, Variable and Fixed Resistors, and Spark Suppressors for Use in Electrical Ignition Systems for Internal Combustion Engines, Oil Burners, and the Like.
Claims use since 1909.

310,389. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION DE ARMENT TOOL COMPANY, Meadville, Pa. Filed Oct. 27, 1933. Serial No. 342,964.

CHANNELLOCK

The drawing is lined for red.
For Pliers.
Claims use since May 1, 1932.

310,390. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) WALTER S. BERMAN, New York, N. Y. Filed Dec. 19, 1933. Serial No. 345,095.

Justrite

The drawing is lined for red.
For Liquors and Cordials—Namely, Cocktails, Brandy, Whiskey, Gin, and Rum.
Claims use since 1916.

310,391. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE TRADE LABORATORIES, INC., Newark, N. J. Filed Nov. 10, 1933. Serial No. 343,530.

BISHOPS

For Shaving Cream.
Claims use since Nov. 10, 1930.

310,392. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS. CROIZET EYMARD & CIE, St.-Meme-Cognac, France. Filed Jan. 10, 1934. Serial No. 345,856.

BONAPARTE

For Brandy, Cognacs.
Claims use since 1907.

310,393. (CLASS 47. WINES.) MIGUEL DE SOUZA GUEDES & IRMÃO LDA., Oporto, Portugal. Filed Jan. 8, 1934. Serial No. 345,757.

SOUZA GUEDES

For Wines.
Claims use since January, 1910.

TRADE-MARK REGISTRATIONS RENEWED

40,439. BITTERS. Registered May 26, 1903. E. MARTINAZZI & Co. Renewed May 26, 1933, to E. Martinazzi & Co., Turin, Italy, a corporation of Italy, successor.

41,844. WIRE. Registered January 5, 1904. JOHN A. ROEBLING'S SONS CO., Trenton, N. J., a corporation of New Jersey. Renewed January 5, 1934.

41,953. CLEANING OR POLISHING COMPOUNDS. Registered January 26, 1904. HERMAN NETHEIM, Newark, N. J. Renewed January 26, 1934, to The Goodwin Company, Los Angeles, Calif., a corporation of Nevada, assignee by mesne assignments.

42,441. LAGER BEER. Registered April 19, 1904. THE CUMBERLAND BREWING COMPANY OF ALLEGANEY COUNTY, MARYLAND, Cumberland, Md., a corporation of Maryland. Renewed April 19, 1934.

42,455. RUBBER HOSE AND COTTON HOSE. Registered April 19, 1904. BOWERS RUBBER COMPANY. Renewed April 19, 1934, to Pioneer Rubber Mills, San Francisco, Calif., a corporation of California, successor.

42,627. WHISKIES. Registered May 17, 1904. CHAPIN AND GORE, Chicago, Ill., a corporation of Illinois. Renewed May 17, 1934.

93,404. A FURNITURE CLEANING AND POLISHING LIQUID COMPOUND. Registered September 9, 1913. MAMIE E. WRAY, St. Louis, Mo. Renewed September 9, 1933, to Mamie Wray Stone, Sullivan, Mo.

93,501. A CLEANING MATERIAL FOR WOOD, METAL, AND OTHER OBJECTS. Registered September 16, 1913. UNITED SUPPLY COMPANY, New York, N. Y. Renewed September 16, 1933, to Samoline Corporation, Chicago, Ill., a corporation of Illinois, successor.

94,266. CERTAIN NAMED FOODS. Registered November 25, 1913. BESSIRE & COMPANY, Indianapolis, Ind., and Louisville, Ky. Renewed November 25, 1933, to Bessire & Company, Indianapolis, Ind., a corporation of Indiana.

94,327. CANDY. Registered November 25, 1913. SCHANDEIN & LIND CO., Philadelphia, Pa. Renewed November 25, 1933, to Schandein & Lind Co., Norristown, Pa., a corporation of Pennsylvania.

94,540. DENTIFRICE. Registered December 16, 1913. THE ORATONE COMPANY, as assignee of The Allan Chemical Co., Louisville, Ky. Renewed December 16, 1933, to The Oratone Company, Buffalo, N. Y., a corporation of New York, assignee by meane assignments.

94,555. GUT STRINGS FOR MUSICAL STRING INSTRUMENTS. Registered December 16, 1913. ITALIAN MUSICAL STRING CO., New York, N. Y., a corporation of New Jersey. Renewed December 16, 1933.

94,561. LIQUID FIRST-COATER IN WOODEN OR METAL PACKAGES. Registered December 16, 1913. MICHAEL MCNAMARA. Renewed December 16, 1933, to Sealerine Products Company, Inc., Detroit, Mich., a corporation of Delaware, assignee by mesne assignments.

94,586. WINDOWS. Registered December 23, 1913. AUSTRAL WINDOW COMPANY, Augusta, Maine, and New York, N. Y., a corporation of Maine. Renewed December 23, 1933.

94,847. TOILET WATER. Registered December 23, 1913. A. ET M. LANDON. Renewed December 23, 1933, to Societe Anonyme Produits Jean Vincent Bully, Paris, France, a corporation of France, successor.

94,898. WATER-PAINT. Registered January 13, 1914. M. EWING FOX & CO. Renewed January 13, 1934, to M. Ewing Fox Co., Inc., New York, N. Y., a corporation of New York, assignee.

94,899. CALCIMINE OR WATER-PAINT. Registered January 13, 1914. M. EWING FOX & CO. Renewed January 13, 1934, to M. Ewing Fox Co., Inc., New York, N. Y. a corporation of New York, assignee.

94,966. A CHEMICAL DENTAL PREPARATION FOR FILLING AND TREATING ROOT-CANALS. Registered January 13, 1914. PAUL M. WENZEL, Philadelphia, Pa. Renewed January 13, 1934.

94,978. ELECTRIC FLASH-LIGHT LAMPS. Registered January 20, 1914. BEACON MINIATURE ELECTRIC COMPANY. Renewed January 20, 1934, to National Carbon Company, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

95,075. SAWS. Registered February 3, 1914. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed February 3, 1934.

95,144. FIBROUS AND TEXTILE ROPE AND TWINE. Registered February 3, 1914. PLYMOUTH CORDAGE COMPANY, Plymouth, Mass., a corporation of Massachusetts. Renewed February 3, 1934.

95,713. BISCUIT. Registered March 3, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed March 3, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

95,791. CERTAIN NAMED CLOTHING FOR CHILDREN AND GIRLS. Registered March 10, 1914. THE SPIRELLA COMPANY, Meadville, Pa. Renewed March 10, 1934, to The Spirella Company Incorporated, Niagara Falls, N. Y., a corporation of New York, assignee.

95,792. CERTAIN NAMED EXTENDERS, FORMS, SUPPORTERS, PROTECTORS, PADS, CLASPS, BELTS, STAYS, STOCKS, AND RUFFLES. Registered March 10, 1914. THE SPIRELLA COMPANY, Meadville, Pa. Renewed March 10, 1934, to The Spirella Company Incorporated, Niagara Falls, N. Y., a corporation of New York, assignee.

95,793. CERTAIN NAMED CLOTHING FOR CHILDREN AND GIRLS. Registered March 10, 1914. THE SPIRELLA COMPANY, Meadville, Pa. Renewed March 10, 1934, to The Spirella Company Incorporated, Niagara Falls, N. Y., a corporation of New York, assignee.

95,794. CERTAIN NAMED EXTENDERS, FORMS, SUPPORTERS, PROTECTORS, PADS, CLASPS, BELTS, STAYS, STOCKS, AND RUFFLES. Registered March 10, 1914. THE SPIRELLA COMPANY, Meadville, Pa. Renewed March 10, 1934, to The Spirella Company Incorporated, Niagara Falls, N. Y., a corporation of New York, assignee.

95,926. BISCUIT. Registered March 24, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed March 24, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

95,928. BISCUIT. Registered March 24, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed March 24, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

95,954. SURGICAL BANDAGES AND BELTS, SANITARY AND ABDOMINAL BELTS, ELASTIC OR SURGICAL STOCKINGS AND BANDAGES, AND THIGH-REDUCERS. Registered March 24, 1914. THE SPIRELLA COMPANY, Meadville, Pa. Renewed March 24, 1934, to The Spirella Company Incorporated, Niagara Falls, N. Y., a corporation of New York, assignee.

95,955. SURGICAL BANDAGES AND BELTS, SANITARY AND ABDOMINAL BELTS, ELASTIC OR SURGICAL STOCKINGS AND BANDAGES, AND THIGH-REDUCERS. Registered March 24, 1914. THE SPIRELLA COMPANY, Meadville, Pa. Renewed March 24, 1934, to The Spirella Company Incorporated, Niagara Falls, N. Y., a corporation of New York, assignee.

95,959. BLENDED WHISKY. Registered March 24, 1914. JOHN HENDERSON STEWART, Dundee, Scotland. Renewed March 24, 1934, to Alexander Stewart & Son of Dundee (1924) Limited, London, England, a corporation of Great Britain, successor.

96,017. A MEDICINAL PREPARATION FOR CERTAIN NAMED DISEASES. Registered March 31, 1914. HOLLISTER DRUG COMPANY. Renewed March 31, 1934, to Hollister Laboratories, Inc., Madison, Wis., a corporation of Wisconsin, by change of name.

96,161. BISCUIT. Registered April 7, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed April 7, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

96,166. BISCUIT. Registered April 7, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed April 7, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

96,167. BISCUIT. Registered April 7, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed April 7, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

96,170. BISCUIT. Registered April 7, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed April 7, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

96,171. BISCUIT. Registered April 7, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed April 7, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

96,419. A LARD SUBSTITUTE COMPOSED OF COTTON-SEED OIL AND OLEO-STEARIN. Registered April 21, 1914. INTERSTATE COTTON OIL REFINING CO., Sherman, Tex., a corporation of Delaware. Renewed April 21, 1934.

96,683. WOODEN MATTING. Registered April 28, 1914. KEYSTONE WIRE MATTING CO., Beaver Falls, Pa., a corporation of Pennsylvania. Renewed April 28, 1934.

96,820. BISCUIT. Registered May 5, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed May 5, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

96,962. RUBBER HOSE. Registered May 12, 1914. GOODYEAR RUBBER CO. Renewed May 12, 1934, to John B. Watson, San Francisco, Calif., assignee.

96,987. LEATHER BELTING. Registered May 12, 1914. W. S. NOTT COMPANY, Minneapolis, Minn., a corporation of Minnesota. Renewed May 12, 1934.

96,990. AN EMULSION OF PETROLEUM COMPOUND. Registered May 12, 1914. PATTERSON DRUG COMPANY, INC., Lynchburg, Va., a corporation of Virginia. Renewed May 12, 1934.

96,995. FLAT WRITING-PAPER. Registered May 12, 1914. B. D. RISING PAPER COMPANY. Renewed May 12, 1934, to Rising Paper Company, Housatonic, Mass., a corporation of Massachusetts, successor.

97,166. BISCUIT. Registered May 19, 1914. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed May 19, 1934, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

97,335. THREADS AND YARNS MADE FROM COTTON, MERCERIZED COTTON, LINEN, AND SILK. Registered June 2, 1914. THE LEES MFG. CO., Westport, Conn., and New York, N. Y., a corporation of Connecticut. Renewed June 2, 1934.

97,366. BOLTING-CLOTH. Registered June 2, 1914. SCHWEIZERISCHE SEIDENGAZEFABRIK A. G., Zurich, Switzerland, a corporation of Switzerland. Renewed June 2, 1934.

97,544. TWINES AND CORDS, BRAIDED OR TWISTED. Registered June 9, 1914. THE LEES MFG. CO., Westport, Conn., and New York, N. Y., a corporation of Connecticut. Renewed June 9, 1934.

LABELS

REGISTERED FEBRUARY 20, 1934

43,252.—*Title:* SKOOTS. For Shoes. BIRD & SONS, INC., East Walpole, Mass. Published December 12, 1933.

43,253.—*Title:* ICE CREAM DESIGN NO 537. For Ice Cream. BLOOMER BROS. COMPANY, Newark, N. Y. Published December 23, 1933.

43,254.—*Title:* C. R. C. QUICK COFFEE. For Coffee. COFFEE REFINING CO., San Diego, Calif. Published November 15, 1933.

43,255.—*Title:* BREIDT'S. For Beer. ELIZABETH BREWING CORPORATION, Elizabeth, N. J. Published December 5, 1933.

43,256.—*Title:* JEFFERSON ISLAND HEXAGON SALT. For Salt. JEFFERSON ISLAND SALT CO., INC., Louisville, Ky. Published December 28, 1933.

43,257.—*Title:* KURLASH. For Eyelash Curler. THE KURLASH COMPANY, INC., Rochester, N. Y. Published December 1, 1933.

43,258.—*Title:* CB 448. For Angel Food. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 5, 1933.

43,259.—*Title:* CB 444. For Devil's Food. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 5, 1933.

43,260.—*Title:* CB 445. For Coffee Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 5, 1933.

43,261.—*Title:* CB 447. For Tea Rolls. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 5, 1933.

43,262.—*Title:* FLAVOR-KEEP REFRIGERATOR FOOD BAGS. For Bags. NEWARK PARAFFINE & PARCHMENT PAPER COMPANY, Newark, N. J. Published December 1, 1933.

43,263.—*Title:* FLAVOR-KEEP SANDWICH BAGS. For Bags. NEWARK PARAFFINE & PARCHMENT PAPER COMPANY, Newark, N. J. Published December 1, 1933.

43,264.—*Title:* FLAVOR-KEEP UTILITY FOOD BAGS. For Bags. NEWARK PARAFFINE & PARCHMENT PAPER COMPANY, Newark, N. J. Published December 1, 1933.

43,265.—*Title:* PUROX. For a Liquid Cleaning and Washing Compound. PUROX CHEMICAL CO., New York, N. Y. Published December 22, 1933.

43,266.—*Title:* REX FLY SPRAY. For a Fly Spray. REX RESEARCH CORPORATION, Toledo, Ohio. Published December 22, 1933.

43,267.—*Title:* SHEFCO VAPORIZING CRYSTALS. For Chemical Crystal for Moth Preventative Purposes, and Deodorant Purposes. IRVING SHEF, doing business as Shef Manufacturing Company, Union City, N. J. Published October 20, 1933.

43,268.—*Title:* GOLD SEAL BREAD. For Bread. MORRIS SHUMOFSKY, doing business as Morris Bakery, Bridgeport, Conn. Published June 1, 1933.

43,269.—*Title:* STANBI. For Sour Pickles. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,270.—*Title:* STANBI. For Sweet Pickles. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,271.—*Title:* STANBI. For Sweet Mixed Pickles. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,272.—*Title:* STANBI. For Processed Dill Pickles. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,273.—*Title:* STANBI. For Sweet Chow Chow. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,274.—*Title:* STANBI. For Sour Chow Chow. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,275.—*Title:* STANBI. For Sweet Relish. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,276.—*Title:* STANBI. For Mustard. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,277.—*Title:* STANBI. For Mayonnaise. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,278.—*Title:* STANBI. For Salad Dressing. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,279.—*Title:* STANBI. For Sandwich Spread. STANDARD BRANDS INCORPORATED, New York, N. Y. Published December 31, 1933.

43,280.—*Title:* CHASE AND SANBORN'S LOUISIANA ROAST. For Coffee and Chicory. STANDARD BRANDS INCORPORATED, New York, N. Y. Published January 5, 1934.

PRINTS

REGISTERED FEBRUARY 20, 1934

14,599.—*Title:* FIRESTONE SPARK PLUGS. For Spark Plugs. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Published November 20, 1933.

14,600.—*Title:* MERRY CHRISTMAS. For Tires, Spark Plugs, Radiator Antifreeze, and Storage Batteries. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Published December 7, 1933.

14,601.—*Title:* NOW! A NEW, AMAZINGLY SIMPLE WAY TO MAKE CHICKEN PIE. For Biscuit. Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published January 12, 1934.

14,602.—*Title:* KURLASH GIVES YOUR LASHES AN ENCHANTING CURL. For Eyelash Curler. THE KURLASH COMPANY, INC., Rochester, N. Y. Published December 1, 1933.

14,603.—*Title:* A TRULY MERRY CHRISTMAS. For Hats. MLLE. JEANNE—PARIS, INC., New York, N. Y. Published December 16, 1933.

REISSUES

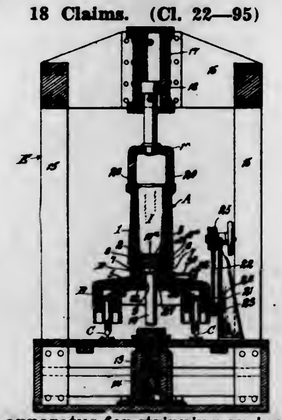
FEBRUARY 20, 1934

19,086
APPARATUS FOR STRIPPING INGOTS FROM INGOT MOLDS

Emil Gathmann, Baltimore, Md.

Original No. 1,897,696 dated February 14, 1933, Serial No. 567,281, October 6, 1931. Application for reissue November 25, 1933. Serial No. 699,761

18 Claims. (Cl. 22—95)



17. An apparatus for stripping an ingot from a big-end-up ingot mold having an opening in its bottom and a movable closure for said opening, comprising a mold support upon which the mold to be stripped is positioned, a frame above said support, a pressing device mounted on said frame for vertical movements downwardly substantially coaxially with said mold and into positive engagement with said mold for exerting positive downward pressure thereon, and an ingot stripper under and in line with the mold bottom opening and adapted to exert an upward pressure through said opening on the bottom of the ingot when said downward pressure is being exerted whereby to effect relative upward movement of the ingot in the mold.

18. The method of producing a metallic ingot which comprises positioning a big-end-up mold having a bottom opening on a mold support, sealing said bottom opening, pouring molten metal into said mold, allowing said metal to solidify, exerting dynamic pressure downwardly against the upper portion of said mold in a direction substantially coaxial with said mold while said mold is in the same position horizontally on said support as during pouring, causing opposing pressure to be exerted upwardly through said mold bottom opening against the bottom of the ingot while continuing to exert dynamic pressure downwardly on the mold, said downward and upward pressures being exerted when the mold is in the same position horizontally with respect to said support as when said metal was poured.

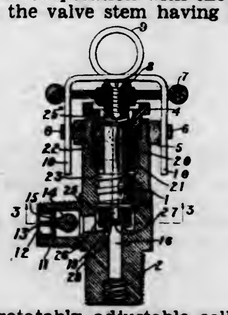
19,087
VALVE

Henry R. Minor, Oak Park, Ill., assignor to Walter Kidde & Company, Inc., a corporation of New York

Original No. 1,879,397, dated September 27, 1932, Serial No. 407,047, November 14, 1929. Application for reissue April 20, 1933. Serial No. 667,026

14 Claims. (Cl. 251—164)

1. A valve for use in carbon dioxide fire extinguishing systems comprising a valve body having a seat therein, a valve stem threadedly mounted in the valve body, a valve head on the valve stem for cooperation with the seat, means for rotating the valve stem having holes there-



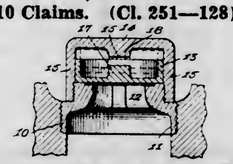
through, a rotatably adjustable collar mounted on the valve body having pierced lugs, and a wire member adapted to extend through the holes in the means for rotating the valve stem and the pierced lugs to lock the valve in closed position.

19,088
PUMP VALVE

Lee L. Carson, San Diego, Calif., assignor, by direct and mesne assignments, of one-half to George T. Dunn and one-half to Lillie M. Carson, both of San Diego, Calif.

Original No. 1,880,120, dated September 27, 1932, Serial No. 474,586, August 11, 1930. Application for reissue March 27, 1933. Serial No. 663,073

10 Claims. (Cl. 251—128)



2. A valve comprising an annular fitting having an opening through the center thereof and provided at its top side with a seat, a cage having an annulus engaging the fitting and surrounding said seat and arms rising from said annulus, the cage having a disk at the upper ends of the arms and said disk having a stop portion at its center and under side, a cup valve member fitting snugly between the arms and having a flat under surface adapted to engage said seat and provided at its center with the stop portion adapted to engage the stop portion of the disk, the area of said disc being less than the area of said valve member.

19,089
BROILER AND TOASTER

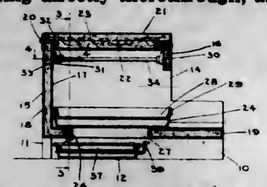
Earl S. Parker, Los Angeles, Calif., assignor, by mesne assignments, to The Buckeye Aluminum Company, Wooster, Ohio, a corporation of Ohio

Original No. 1,745,340, dated January 28, 1930, Serial No. 220,269, September 17, 1927. Application for reissue November 27, 1933. Serial No. 699,910

12 Claims. (Cl. 53—5)

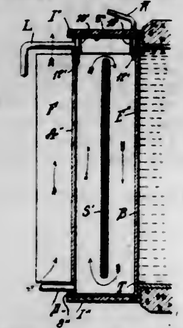
1. A broiler or toaster comprising a receptacle, means providing a perforated support above the

receptacle, dimensions of the perforations being smaller than the distances between adjacent perforations and being relatively small so as to effectively prevent any substantial amount of heat from passing directly therethrough, and a heat-



ing element above the perforated support whereby an edible which is to be cooked or heated may be placed upon the perforated support and heated by the heating element, and fats, greases and juices may drain from the edible through the perforations into the relatively cool receptacle.

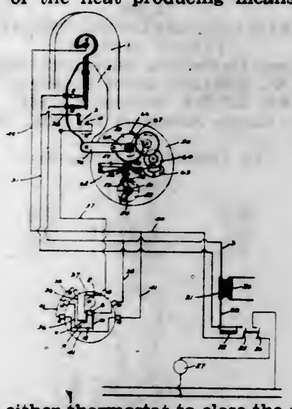
19,090
ABSORBER REFRIGERATING APPARATUS
Edward S. Halsey, North Miami, Fla.
Original No. 1,779,211, dated October 21, 1930, Serial No. 68,295, November 13, 1925. Renewed March 20, 1930. Application for reissue October 14, 1932. Serial No. 639,377
16 Claims. (Cl. 62—119.5)



15. The combination of an absorber refrigerating system and refrigerator cabinet cooled by said system wherein part of the structure of said cabinet is made of a dual walled vessel, the innermost wall of said vessel being exposed to the inside of the cabinet and functioning as an evaporator and cooler, with the opposite wall of said vessel being disposed on the outside of said cabinet and functioning as an air-cooled absorber.

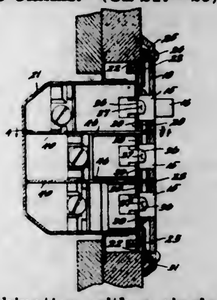
19,091
HEAT REGULATING DEVICE
George D. Kingsland, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original No. 1,893,237, dated January 3, 1933, Serial No. 524,598, March 23, 1931. Application for reissue October 30, 1933. Serial No. 695,937
29 Claims. (Cl. 236—9)

1. In a heating system, means for producing heat including a relay adapted when closed to initiate heat production, a thermostat responsive to temperatures in the space to be heated, a thermostat more directly responsive to the temperature of the heat producing means, circuits



adapting either thermostat to close the relay, including a circuit which has therein a switch and said last mentioned thermostat, and clock-controlled means for automatically closing and opening said switch.

19,092
ELECTRIC WIRING APPARATUS
Victor R. Despard, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Original No. 1,875,224, dated August 30, 1932, Serial No. 554,323, July 31, 1931. Application for reissue May 11, 1933. Serial No. 670,598
18 Claims. (Cl. 247—28)

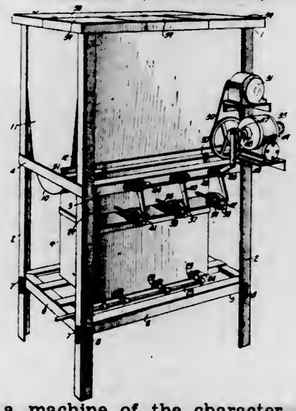


1. The combination with a single-gang outlet box and a single-gang wall plate having a plurality of ports one above another, of a plurality of independent wiring devices including at least one switch and one other-purpose wiring device, each adapted to cooperate with any wall plate port; a single supporting bridge for all of said devices interposed between their main portions and the wall plate and carried by the box; said devices having like reduced portions in front of their main portions and said bridge having openings interchangeably receiving said reduced portions from the rear, said devices when arranged on said bridge for cooperation with the wall plate ports being receivable in the opening of said single-gang outlet box.

PATENTS

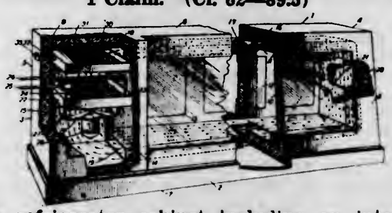
GRANTED FEBRUARY 20, 1934

1,947,441
COMPOUND DRY MATERIAL FEEDING MACHINE
Eric W. Bacharach, Kansas City, Mo.
Application July 12, 1929. Serial No. 377,881
7 Claims. (Cl. 221—118)



5. In a machine of the character described including a unitary hopper having spaced end and side walls and a bottom having spaced outlets therein, a partition extending across the hopper between said outlets to form separate compartments for separate materials, a shaft extending through the partition and one of the end walls, cutting blades carried by the shaft in each compartment and operable in close relation with said bottom to promote movement of the separate materials simultaneously through said outlets, means for operating the shaft to effect continuous rotation of the cutters in one direction, means located below said openings for receiving the respective materials, means operable over said receiving means to feed said materials from the receiving means at a rate to effect a predetermined ratio, common driving means for operably actuating said feeding means, and individual means for variably connecting the common driving means with said feeding means for selectively varying said ratio.

1,947,442
REFRIGERATED CABINET
Chester A. Baker, Omaha, Nebr., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr., a corporation of Nebraska
Application April 19, 1930. Serial No. 445,615
1 Claim. (Cl. 62—89.5)



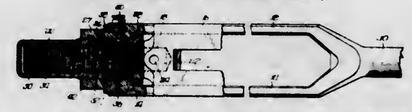
A refrigerator cabinet including an interior chamber and a vertical partition dividing the chamber into separate air cooling and storage compartments, an air duct leading continuously from the upper portion of the cooling compartment through the top, opposite end and bottom walls of the cabinet back to the lower portion of the cooling compartment, a refrigerating unit extending transversely through the cooling compartment between the ends of the duct, and a fan located in the cooling compartment below the refrigerating unit for drawing air from the duct and impelling the air through the refrigerating unit back into the duct.

1,947,443
REMOVABLE CORE LOCK
Theodore Bargman, Detroit, Mich.
Application March 25, 1929. Serial No. 349,666
1 Claim. (Cl. 70—46)



In cylinder lock construction and in combination, a lock casing, a removable unit carried thereby consisting of the key plug and tumbler casing, said unit being held against bodily rotation, a second key-operated plug secured in the lock casing, said key plugs being rotatable on substantially parallel axes, an element carried by said second key plug and movable into and out of engagement with the unit by rotation of the second key plug, said element in one position being active to prevent removal of the unit.

1,947,444
SLACK ADJUSTER
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 13, 1930
Serial No. 502,051
3 Claims. (Cl. 188—197)

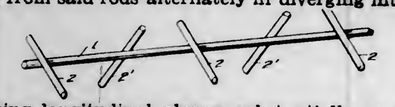


1. In a brake slack adjuster, the combination of a frame, a fulcrum block slidably mounted in the frame, a screw secured to the block and extending through an aperture in the frame, a nut rotatably mounted in said aperture and having threaded engagement with the screw, said nut having a hollow extension integral therewith for enclosing the end of the screw, and a collar secured to the exterior of the extension and engaging said frame for preventing longitudinal movement of the nut, the portion of the extension seating the collar being greater in diameter than the remainder of the extension.

1,947,445
BAR SUPPORT FOR CONCRETE CONSTRUCTION
George Birkland, St. Louis, Mo.
Application July 29, 1931. Serial No. 553,743
Renewed July 10, 1933
4 Claims. (Cl. 72—122)

1. A bar support comprising a longitudinal rod, and substantially straight prongs transversely

secured near their middle to said rod and radiating from said rods alternately in diverging inter-

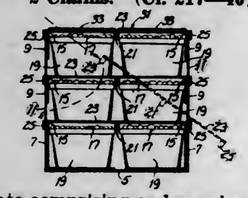


secting longitudinal planes, substantially as described.

1,947,446
CRATE

Fred Boren, Mound City, Ill., assignor to The Swissheim Veneer Co., Mound City, Ill., a corporation of Illinois

Application August 25, 1933. Serial No. 686,725
2 Claims. (Cl. 217—40)

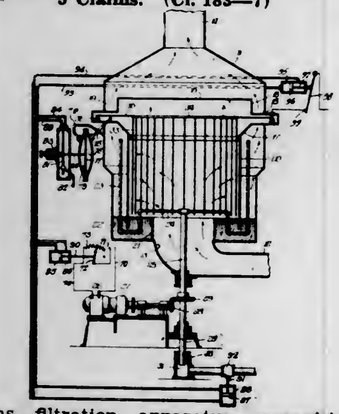


1. A crate comprising end members joined by a bottom and by spaced side slats, at least one central rib affixed to said slats, and partitions resting upon respective pairs of said side slats, said partitions having lateral ribs positioned outside of said slats of the box to clampingly hold the same, the partitions also having recesses accommodating said rib during application of the partitions.

1,947,447
APPARATUS FOR THE FILTRATION OF AIR OR GASES

Herman A. Brassert, Arthur J. Boynton, and John P. Grilli, Chicago, Ill., assignors to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois

Application January 11, 1932. Serial No. 585,821
5 Claims. (Cl. 183—7)

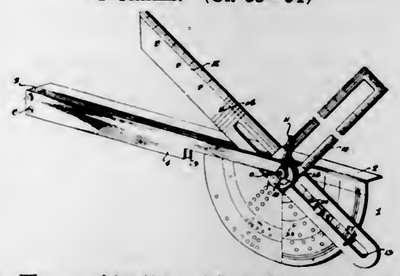


1. Gas filtration apparatus, comprising a grounded cylindrical filtering medium, high tension electrodes adjacent one side of the medium, means for conveying gas past the electrodes and to the medium, means for conducting gas from the opposite side of the medium, one end of the cylindrical medium being closed, and the edge of the other end having a water seal, and spray means for spraying the medium with cleaning fluid, the medium and spray means being movable relative to each other.

1,947,448
BEVEL GAUGE

Harold Ahola, Portland, Oreg., assignor, by mesne assignments, to Technical Tool Company, Portland, Oreg., a corporation of Oregon

Application April 26, 1932. Serial No. 607,527
4 Claims. (Cl. 33—94)

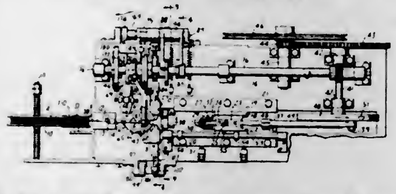


1. The combination with a data plate having sockets in its face and an integral straight edge, of a pivoted adjustable blade at one side of the plate, a detachable angle-arm rigidly mounted on the blade to form a T-head, a guide arm at the other side of the plate, a pivot bolt passing through said plate, blade, angle-arm and guide-arm, means for clamping said members on the bolt, and a setting-slide mounted on said guide arm for use with said sockets.

1,947,449
FILAMENT MAKING MACHINE

Victor Anderson, North Bergen, and Donald G. Trutner, North Arlington, N. J., assignors to Alfred Hofmann & Company, West New York, N. J., a corporation of New Jersey

Application August 21, 1930. Serial No. 476,778
22 Claims. (Cl. 29—33)



1. In a machine for manufacturing filaments from a coated supply strip, timed means operating to grip the strip end and pull successive measured lengths of strip advancingly from the supply through the scraping and severing positions, timed means operating between the supply and severing position to scrape coating from a short section of strip at measured intervals, and timed means operating to sever the strip at the successive scraped sections thereof, thereby to produce successive coated filaments of measured length each having both ends bare of coating.

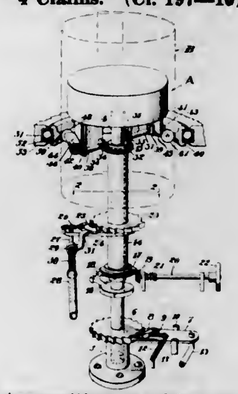
9. In a filament making machine, reciprocating means for drawing a coated filament stock from a supply, said reciprocating means including a gripper adapted to engage and grip the end of the filament stock before its advancing stroke and to release the same at the end of such stroke, scraper members movably mounted at opposite sides of the line of travel of the stock, timed means for moving said scraper members into scraping engagement with the sides of the stock before the end of the feeding stroke, and means for severing the stock midway of the scraped portion, said timed means adapted to maintain the scraper members in engagement

with the stock to hold its free end until the gripper jaws return to engage the stock at the beginning of next feeding stroke, and then move the scrapers out of such engagement.

1,947,450
PLATEN AND PAPER FEED FOR TYPEWRITERS AND THE LIKE

Charlotte E. Ansley, North Hollywood, Calif.

Application February 6, 1931. Serial No. 513,814
4 Claims. (Cl. 197—10)



1. In a typewriting machine or the like, a cylindrical platen arranged with its axis extending vertically, means for supporting a sheet in cylindrical form around said platen, with the adjacent margins of the sheet overlapped, means whereby effecting rotation of said platen will turn said sheet circumferentially, and means for shifting said sheet longitudinally relatively to said platen, including friction rollers carried by the platen and engaged with the inner surface of said sheet.

1,947,451
COPPERIZED PAPER

William R. Barber, Albert G. Natwick, and Maurice W. Phelps, Camas, Wash., assignors to Crown Willamette Paper Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 3, 1932
Serial No. 636,030
5 Claims. (Cl. 92—21)

1. A paper sheet characterized by the fiber thereof carrying a predetermined amount of copper ortho phenyl phenate precipitate.

1,947,452
RESINATE COPPERIZED PAPER

William R. Barber, Albert G. Natwick, and Maurice W. Phelps, Camas, Wash., assignors to Crown Willamette Paper Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 3, 1932
Serial No. 636,031
6 Claims. (Cl. 92—21)

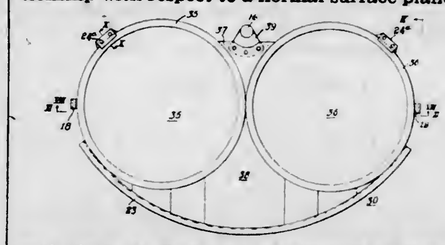
2. A paper sheet characterized by the fiber thereof carrying a predetermined amount of copper resinate precipitate.

1,947,453
VALVE PLATE AND METHOD OF MAKING IT

William M. Bailey, Pittsburgh, Pa.

Application July 31, 1931. Serial No. 554,179
25 Claims. (Cl. 29—157.1)

1. As an article of manufacture, a plurality of metallic members rigidly secured together to form a multi-part-unitary goggle valve plate, said plate having at least one all-metal seating surface, said seating surface having a raised relationship with respect to a normal surface plane of



said plate, so that said raised surface may be accurately trued up as by machining while the plate is in a unitary form.

1,947,454
CABLE JOINT

Charles E. Bennett, Hawthorne, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey

Application March 1, 1932. Serial No. 595,991
2 Claims. (Cl. 173—268)

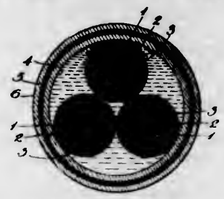


1. A joint for electric cables comprising in combination pipes for receiving the cables to be joined and having their adjacent ends spaced apart, a heat insulator within the adjacent ends of each of said pipes, a sleeve welded to the adjacent spaced ends of said pipes, and a metal casing surrounding the cables, insulators and said sleeves, said casing being welded to said sleeves, and said insulators surrounding the insulation of the cables, and disposed intermediate the cable insulation and said pipes, sleeves and casing so as to overlie the cable insulation at the welds.

1,947,455
CABLE CONSTRUCTION

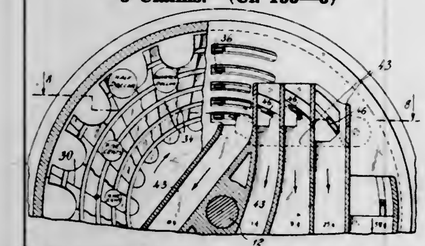
Charles E. Bennett, Hawthorne, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey

Application March 3, 1932. Serial No. 596,495
1 Claim. (Cl. 173—266)



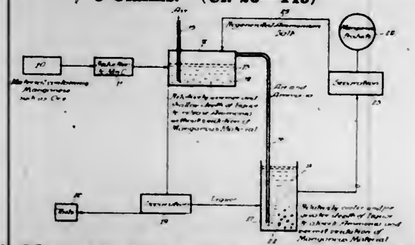
An electric cable comprising in combination a conductor, oil impregnated insulation about the conductor, a soft metal sheath about the insulation, a resilient fibrous covering about the exterior of the sheath permitting expansion of the sheath from pressures built up in the cable due to temperature rises and adapted to restore said sheath to its original form on lowering of said pressures, and a continuous impervious outer protective metal covering about the said resilient fibrous covering.

1,947,456
COIN HANDLING MACHINE
Alfred Charles Otto Bock, Brooklyn, N. Y., assignor to Sattley Company, Detroit, Mich., a corporation of Michigan
Application November 28, 1931
Serial No. 577,825
8 Claims. (Cl. 133—3)



1. In a coin sorting machine, a plate mounted for rotation and having coin pick-up recesses in one face, classifying slots in the other face, each slot communicating near one end with a recess and decreasing in width in successive steps toward the center of said plate, and concentric slots intersecting said classifying slots, each of the concentric slots registering with one of the steps in each classifying slot.

1,947,457
WINNING MANGANESE VALUES
Wilson Bradley, Deerwood, Minn., assignor to Bradley-Fitch Company, Duluth, Minn., a corporation of Minnesota
Application January 10, 1930. Serial No. 419,817
5 Claims. (Cl. 23—145)



1. The method of winning manganese values from material containing manganous oxide which comprises subjecting the material to the dissolving action of an ammonium salt solution whereby to form a soluble manganous salt and ammonia, maintaining a sufficiently low content of ammonia in the digestion to permit the digestion to proceed, injecting a gas which contains free oxygen into the digestion liquid for passage therethrough to aid in the removal of ammonia as it is formed in the digestion and to oxidize any ferrous impurites, and recovering the resulting solution of manganous salt.

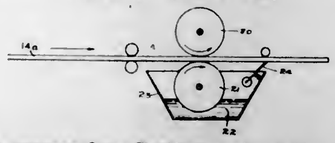
1,947,458
METHOD OF COMPOUNDING RUBBER
William S. Calcott and William A. Douglass, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 13, 1929
Serial No. 370,734
15 Claims. (Cl. 18—50)

1. The process of increasing the resistance of rubber to deterioration due to aging which comprises incorporating with the rubber an antioxidant having the general formula

HO—R—R'—OH

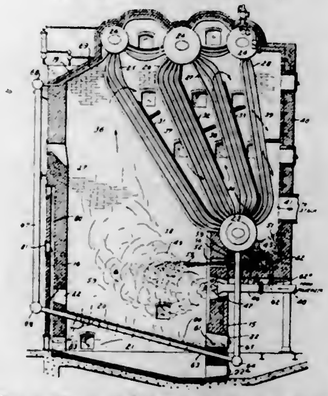
wherein R represents a naphthyl or phenyl nucleus and R' represents a phenyl nucleus.

1,947,459
PROCESS OF IMITATING SURFACES
Lloyd V. Casto, Detroit, Mich., assignor to The Oxford Varnish Corporation, Detroit, Mich., a corporation of Michigan
Application February 29, 1928. Serial No. 257,931
7 Claims. (Cl. 41—30)



1. A process for effecting a simulation of the surface appearance of building slabs, comprising forming a slab of plastic-material, subjecting the material before it has hardened to pressure against a surface bearing an ornamental design, which will form in the surface of the material interstices of predetermined contour and depth while the material is being hardened by such pressure, and subsequently filling the interstices thus formed with a material having different physical characteristics than the material forming the body of the slab to thus present a smooth uniformly flat surface.

1,947,460
PULVERIZED FUEL FURNACE AND METHOD OF COMBUSTION
Jay Gould Coutant, New York, N. Y.
Application January 31, 1927. Serial No. 164,824
11 Claims. (Cl. 110—28)



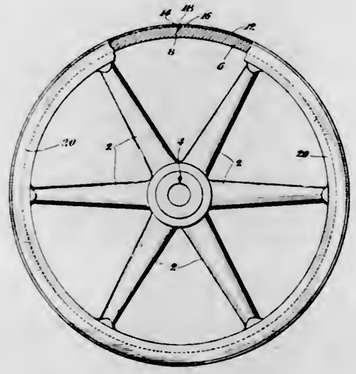
4. The method of firing a boiler or similar furnace comprising continuously injecting and burning fuel in pulverized form in suspension in air in the combustion space to which the surface to be heated is exposed, and additionally introducing and causing to be distributed in the same combustion space and contiguous to the suspended burning fuel therein substantial quantities of finely divided and substantially non-combustible mineral matter adapted to incandesce and thereby to accelerate the combustion of the injected pulverized fuel and relatively increase the radiant heat utilization.

1,947,461
TIP FLAP AILERON
Théophile de Port, Dayton, Ohio
Application August 22, 1930. Serial No. 477,090
7 Claims. (Cl. 244—29)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an inherently stable airplane, a supporting surface having its longitudinal axis disposed in the vertical plane including the longitudinal axis of said airplane and a pair of control surfaces pivoted to the extremities of said surface and normally disposed with respect thereto to provide substantially an aerodynamically uninterrupted surface therewith in every operative position of said control surfaces and means for controlling said control surfaces for respectively increasing or decreasing the effective aspect ratio on one side of said axis and decreasing or increasing the effective aspect ratio on the other side and to prevent a yawing of the airplane without producing at the same time any appreciable yawing within the range of flying angles substantially up to the stalling angle.

1,947,462
METHOD OF MAKING CASTING WHEELS
John H. Doorbar, Highland Park, N. J., assignor to Du Pont Film Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application November 29, 1930
Serial No. 498,957
1 Claim. (Cl. 29—159)



The method of making a wheel for casting film which includes preparing a wheel body, applying to said body a non-continuous peripheral sheet of corrosion resisting steel, heating the sheet to expand it, welding the ends of the sheet together to form a continuous surface, and simultaneously locking the sheet to the wheel body, cooling the sheet to shrink it onto the wheel body, and then finishing surface of said sheet to render it suitable for casting film.

1,947,463
MANUFACTURE AND TREATMENT OF CELLULOSE ESTERS
Henry Dreyfus, London, England
No Drawing. Application March 21, 1929, Serial No. 348,980, and in Great Britain April 18, 1928
20 Claims. (Cl. 260—101)

1. Process for the production of cellulose esters containing hydroxyalkacyl groups, comprising treating materials consisting essentially of cellulose with hydroxyaliphatic acid anhydrides.

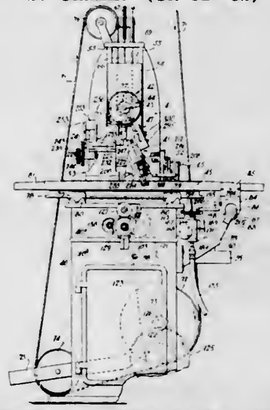
1,947,464
MANUFACTURE OF ORGANIC SUBSTITUTION DERIVATIVES OF CELLULOSE
Henry Dreyfus, London, England
No Drawing. Application October 30, 1930, Serial No. 492,362, and in Great Britain November 28, 1929
8 Claims. (Cl. 260—152)

1. Process for the manufacture of new cellulose derivatives, comprising treating cellulose with amino aralkylating agents in the presence of alkali.

1,947,465
TEXTILE FABRIC
Henry Dreyfus, London, England
No Drawing. Original application April 15, 1930, Serial No. 444,619, and in Great Britain April 29, 1929. Divided and this application April 6, 1932. Serial No. 603,676
8 Claims. (Cl. 28—1)

1. A textile filling strand comprised of a plurality of individually twisted ends temporarily maintained in parallel but untwisted relation by a removable bonding agent.

1,947,466
THREAD TOOL GRINDING MACHINE
John Edgar, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application November 4, 1927. Serial No. 230,966
27 Claims. (Cl. 51—92)



1. A grinding machine having, in combination, a grinding wheel, a support for a piece of work, means for automatically effecting a relative reciprocation between said wheel and the work, means for automatically effecting a linear step-by-step indexing movement between said wheel and the work, and means for automatically effecting a relative approaching feed between said wheel and the work after said step-by-step indexing movement across the work.

1,947,467

RECOVERY OF BLOCK SULPHUR FROM THE PRODUCTS CONTAINING SULPHUR OBTAINED FROM THE WET PURIFICATION OF GAS AND ESPECIALLY OF COAL DISTILLATION GASES

Wilhelm Fitz, Essen, Germany

No Drawing. Application April 1, 1932, Serial No. 602,617, and in Germany April 4, 1931
4 Claims. (Cl. 23—229)

1. A process for the recovery of molten sulphur from contaminated sulphur foam resulting from the recovery of hydrogen sulphide from gases by wet purification, comprising treating the sulphur foam with oxidizing means in the absence of free mineral acids at temperatures above the melting point of sulphur and separating out the sulphur from the salt solution thereby resulting.

1,947,468

RETARDING DEVICE FOR PARACHUTES

William A. Gibson, Succasunna, N. J.

Application June 3, 1932. Serial No. 615,178
3 Claims. (Cl. 244—21)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



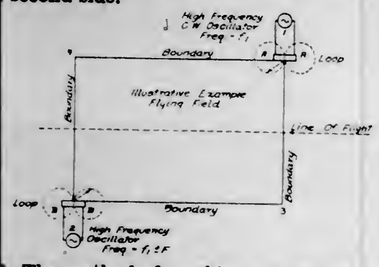
3. In combination with a main parachute and a pilot parachute, a friction unit carried by the main parachute, and a cord attached to the pilot parachute and passing through the friction unit, said cord releasably holding the main parachute in folded position.

1,947,469

ELECTRICAL MARKING DEVICE FOR AIRPLANE LANDING FIELDS

Ross Gunn, Washington, D. C.

Application February 19, 1929. Serial No. 341,059
10 Claims. (Cl. 250—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



10. The method of marking at least two of the sides of a polygonal area, which comprises directionally transmitting waves from a point on a first one of said sides with signals of zero intensity along said side, directionally transmitting waves of a slightly different frequency from a point on a second one of said sides with signals of zero intensity along said second side whereby a beat note resulting from the two waves will exist at all points on or immediately adjacent to said area except on the lines defining said first and second side.

1,947,470

METHOD OF GREASE LUBRICATION

Frank J. Fall, Cincinnati, Ohio

No Drawing. Application May 14, 1930
Serial No. 452,528
1 Claim. (Cl. 184—7)

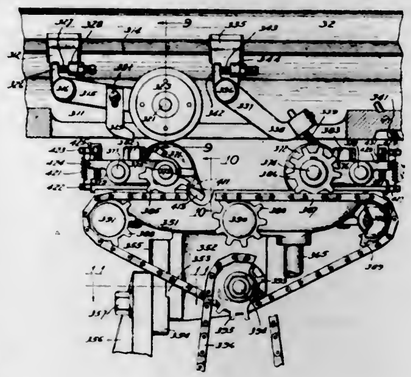
In the method of grease lubrication, the steps which consist in first forcing grease of a distinctive artificial color between parts requiring grease lubrication and then after a period of use forcing between said parts a grease of a different artificial color until the first colored grease has been forced out and the second colored grease shows at the end of the parts remote from the end at which the grease is introduced.

1,947,471

MEANS FOR AUTOMATICALLY SOLDERING THE SIDE SEAMS OF CONTAINERS AND THE LIKE

William M. Holloway, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application October 16, 1929. Serial No. 400,105
32 Claims. (Cl. 113—62)



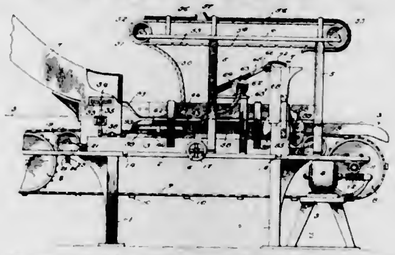
1. In a soldering apparatus, the combination of a horn, devices for feeding a can body along said horn, said can body having a side seam adapted to be soldered, and a plurality of sets of soldering instrumentalities, one set for automatically soldering the inner face of said side seams from within the container body during its passage along said horn, and a second set for automatically soldering the outer face of the same side seam during the same passage of the container along said horn, means for fluxing the seam externally, means for fluxing the seam internally, and devices for adjusting either fluxing means to inoperative position leaving the other fluxing means in operative position.

1,947,472

MACHINE FOR ATTACHING BAILS TO CONTAINERS

George S. Hoover, Wellsburg, W. Va.

Application March 21, 1932. Serial No. 600,267
18 Claims. (Cl. 140—93)



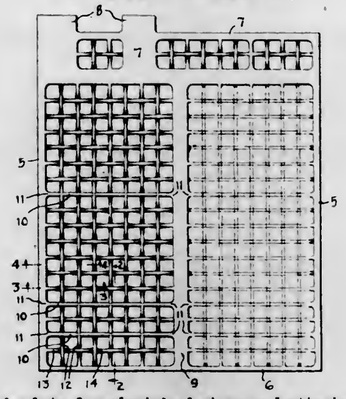
1. Apparatus for the purpose set forth comprising a chute for container bodies, a conveyer traveling past the chute to receive bodies therefrom, means actuated by engagement with the container bodies traveling on the conveyer for applying bails to the bodies, and means at the delivery end of the chute for separating the bodies delivered to the conveyer.

1,947,473

STORAGE BATTERY

Otto E. Huebner, Richmond Hill, N. Y., assignor, by mesne assignments, to Mechanical Development Corporation of America, a corporation of Delaware

Application December 10, 1929
Serial No. 412,956
4 Claims. (Cl. 136—49)



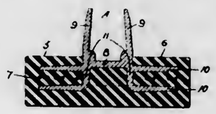
1. A plate for electrical storage batteries comprising an outer frame lying substantially in one plane, a plurality of cross-bars extending from one side of the frame to the other; a plurality of cross-bars intersecting the aforesaid cross-bars, each cross-bar weaving back and forth from one face of the plate to the other face and having bulges which extend to a plane lying approximately in the outer surface of the plate, the intersecting cross-bars weaving first under and then over adjacent bars and being united integrally at the junction points to produce an integral structure, a mass of active paste filling the spaces between the intersecting cross-bars and the troughs in the cross-bars which alternate from one face of the plate to the other whereby the entire mass of paste is interlocked to the cross-bars to give a flexible, strong and durable structure, and a lug operatively associated with the frame for connecting electrically the paste via said cross-bars to an external circuit.

1,947,474

FLEXIBLE BAND TRACK

Harry A. Knox, Davenport, Iowa

Application March 23, 1933. Serial No. 662,259
5 Claims. (Cl. 305—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



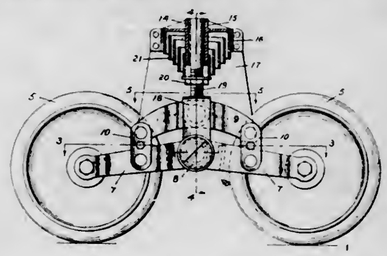
1. A track for track-laying vehicles comprising laterally spaced, endless bands formed of a flexible material such as rubber, spaced rigid members extending transversely of the bands, each member including a central, semi-cylindrical part disposed between the bands and constituting a driving lug, a pair of laterally spaced arms extending vertically from the central part and constituting guide lugs, and pairs of vertically spaced arms extending laterally from the sides of the central part and embedded in the bands, transversely extending members of the same material as the bands connecting the spaced bands and underlying the rigid members, reinforcing cables embedded in the bands and passing between the vertically spaced arms, and the bands having a greater thickness in the trace of the rigid members to provide transverse cleats.

1,947,475

SUSPENSION FOR TRACK-LAYING VEHICLES

Harry A. Knox, Davenport, Iowa, and Thomas H. Nixon, United States Army, Gettysburg, Pa.

Application May 9, 1933. Serial No. 670,124
5 Claims. (Cl. 305—9)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



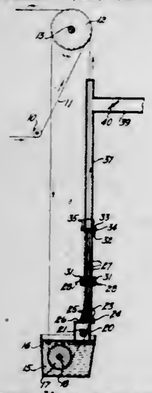
1. In a suspension for vehicles, a member to be supported, a shaft carried by said member and projecting laterally therefrom, a pair of arms journaled on the shaft independently of one another and extending in opposite directions, a wheel on the free end of each arm, a bar overlying the shaft, parallel links connecting the ends of said bar to intermediate portions of the pair of arms, a spring seat carried by the bar, a bracket on the supported member, a volute spring confined between the bracket and spring seat, and a brace between the shaft and the bracket.

1,947,476

APPARATUS FOR TREATING MATERIALS

Henry Martin Larsen, La Grange Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application January 31, 1927, Serial No. 164,995
Renewed April 15, 1932
7 Claims. (Cl. 91—55)



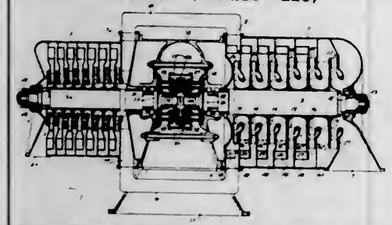
1. In a wire enameling apparatus, means for coating a wire with an insulating material combined with volatile, combustible solvents, a vertical heat conducting combustion chamber provided with a plurality of air ports, means for conveying the coated wire through the chamber, heat insulating means separating said chamber from the remainder of the apparatus and electric heating means below the ports for vaporizing a portion of the solvents on the wire to render them more inflammable, the combustion chamber conducting heat below the ports when the solvents are burned therein to harden the insulation upon the wire, which heat also vaporizes a portion of the solvents.

1,947,477

TURBINE-DRIVEN COMPRESSOR APPARATUS

Alf Lysholm, Stockholm, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a Swedish joint-stock company

Application January 24, 1931, Serial No. 510,924, and in Germany January 27, 1930
8 Claims. (Cl. 230—116)



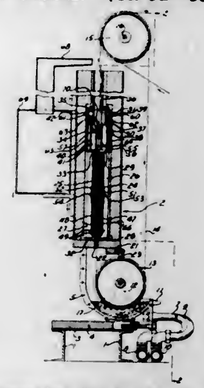
1. In turbine driven compressor apparatus, two compressor parts serially connected with respect to flow of the medium to be compressed, each of said compressor parts comprising a rotatably mounted rotor member including a shaft, said shafts being in axial alignment and having adjacent inner end parts, and means for driving said members comprising a multiple stage double rotation radial flow turbine having two rotors each fixed in overhung relation on the inner end part of a different one of said shafts.

1,947,478

APPARATUS FOR TREATING COATING MATERIAL ON A CORE

Frank Martindell, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 6, 1929. Serial No. 368,963
7 Claims. (Cl. 91—55)



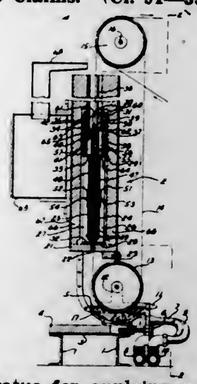
1. In an apparatus for hardening a coating on a core, means for applying a coating composition containing a non-volatile material combined with a volatile material to the core, means for hardening the ingredients of the composition on the core due to the burning of the volatile materials, means for supplying air to the core comprising an air passage adjacent the coated core, and a diffuser positioned in the passage.

1,947,479

APPARATUS FOR HARDENING A COMPOSITION ON A CORE

Frank Martindell, Western Springs, and Ansel Dwight Miller, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 6, 1929. Serial No. 368,964
3 Claims. (Cl. 91—55)



1. In apparatus for applying a coating on a strand, means for applying coating material to the strand, a combustion chamber, means for drawing a strand through the chamber, means for igniting solvents of the composition to bake the remaining ingredients thereof on the strand, compartments positioned on opposite sides of the combustion chamber, means for supplying combustion air to said compartments, and openings

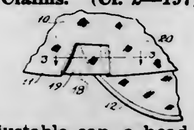
for directing opposed streams of air from the compartment to the strand to support the combustion, some of the openings being positioned to deflect the upper end of the flame from its normal path.

1,947,480

ADJUSTABLE CAP

Eugene F. Meyer, Louisville, Ky., assignor to Town Talk Manufacturing Company, Louisville, Ky.

Application November 14, 1932
Serial No. 642,655
5 Claims. (Cl. 2—197)



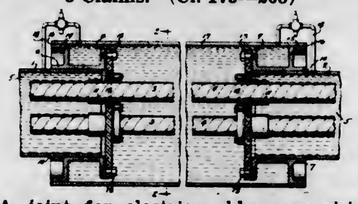
1. In an adjustable cap, a head band portion having notches extending up from its bottom edge at the sides of the band, adjusting straps having their rear ends secured to the rear edges of said notches and extending within the cap and along the forward part of the head band portion, connecting means to connect the free ends of said straps adjustably, and a lining for said cap sewed at its edge to the bottom of the head band for the greater part of its length and having its edge free opposite the connecting means, the free edge portion covering the proximal ends of the straps.

1,947,481

CABLE JOINT

Fred C. Meyer, Paterson, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey

Application September 2, 1932. Serial No. 631,485
5 Claims. (Cl. 173—268)



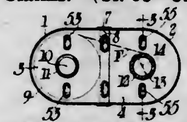
1. A joint for electric cables comprising in combination oil filled pipes, cables to be joined in said pipes, a thimble for receiving each cable in each pipe, a sleeve on the adjacent ends of said pipes and having a liquid tight joint thereto, and a barrier plate rigidly secured to each of said thimbles and said sleeves.

1,947,482

PHOTOGRAPHIC FILM PACKAGE

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

Application February 6, 1933. Serial No. 655,381
12 Claims. (Cl. 95—31)



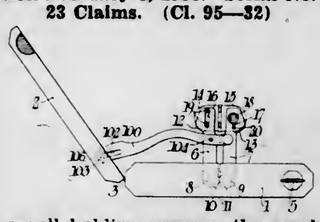
1. In a film package, two elements, one element carrying a plurality of convolutions of film, means carried by the element for protecting the ends of said convolution against light, a hub member carried by the other element to which the end of the said film is attached, means included in said element at the ends of said hub for protecting film against light, means for normally holding said elements together in a fixed relation whereby they may be loaded into a camera as a unit, said holding means also being releasable for threading through a camera.

1,947,483

SELF-THREADING CAMERA

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York

Application February 6, 1933. Serial No. 655,382
23 Claims. (Cl. 95—32)



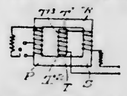
1. In a roll holding camera, the combination with a camera body having an exposure frame, film chambers, and an opening through which said film chambers are accessible, of a cover adapted to move relative to said camera to cover said opening, mechanism inside of said camera adapted to receive a two-part film package, and connections between said mechanism and said cover for stretching film across said exposure frame and delivering one part of said film package in each film chamber.

1,947,484

MEANS FOR CHANGING THE WAVE FORM OF ALTERNATING CURRENTS

Harrod G. Miller, Oceanport, N. J.

Application August 13, 1928. Serial No. 299,381
3 Claims. (Cl. 171—119)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Means for changing the wave form of alternating currents, comprising in combination with a source of alternating current, a transformer assembly having a main core provided with primary and secondary windings; and a tertiary wound core spaced from and encompassed by said main core and having its windings series connected with the windings of said secondary whereby the voltages in the secondary and tertiary will vary non-uniformly to produce a substantially rectangular wave form.

1,947,485

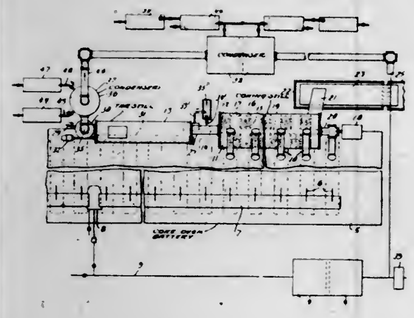
DISTILLATION OF TAR OR PITCH AND APPARATUS THEREFOR

Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey

Application August 9, 1929. Serial No. 384,665
11 Claims. (Cl. 202—30)

1. The method of distilling tar and producing coke, gas, and distillate oils therefrom, which comprises subjecting the tar to distillation by

spraying it into hot coal gasification gases and then further distilling and decomposing the tar distillation residue by direct contact with hot

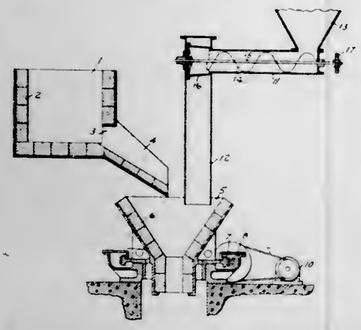


coal gasification gases thereby producing coke, and cooling the gases and vapors resulting from the distillation to recover distillates therefrom.

1,947,486
LAMINATED GLASS AND METHOD OF MAKING THE SAME
William Henry Moss, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 25, 1931 Serial No. 525,317
6 Claims. (Cl. 49—81)

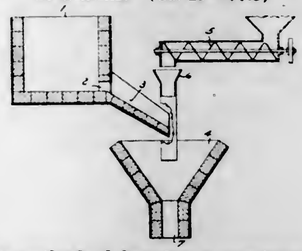
1. Method of making laminated glass comprising incorporating 1 to 5% of water into a plastic containing organic derivatives of cellulose and then pressing sheets of the plastic between sheets of glass.

1,947,487
MIXING APPARATUS
Ray C. Newhouse, Wauwatosa, Wis.
Application July 15, 1932. Serial No. 622,579
5 Claims. (Cl. 259—3)



1. In mixing apparatus, a funnel shaped receptacle, means to rotate said receptacle on an approximately vertical axis, means to deliver a fluid tangentially to the upper portion of said receptacle, means to deliver a divided solid to the surface of the fluid delivered to said receptacle, and means to discharge said materials through the apex of said funnel shaped receptacle.

1,947,488
METHOD OF PRODUCING CONSTRUCTION MATERIAL
Ray C. Newhouse, Wauwatosa, Wis.
Application May 21, 1932. Serial No. 612,765
16 Claims. (Cl. 49—77.5)



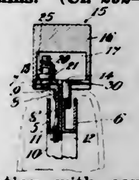
1. The method of forming a construction material containing gas pockets which comprises, mixing a molten slag with a finely divided carbonate and allowing the mixture to cool.

1,947,489
ENGINE MOUNTING
William B. Nold, Chicago, Ill.
Application March 31, 1933. Serial No. 663,829
4 Claims. (Cl. 248—14.2)



1. An engine mounting, including; a pair of brackets adapted for attachment to opposite side members of a vehicle frame; a split tube carried by each bracket; a rubber lining in each split tube; a bridging member provided with enlarged ends lying in the rubber linings in the split tubes, said bridging member extending through the splits in said tubes; and a rubber-lined socket carried by the bridging member and adapted to support therein a trunnion carried by an engine.

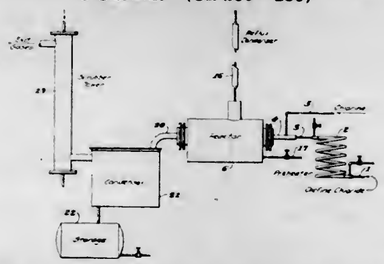
1,947,490
FASTENING DEVICE
Edward Poeter, Irvington, N. J., assignor to E. Poeter & Co., Irvington, N. J., a corporation of New Jersey
Application September 21, 1931 Serial No. 564,118
3 Claims. (Cl. 292—128)



1. In combination with complementary bag frame members of channel shape in cross section, one of said frame members having a flange projecting outwardly from its inner wall in the plane thereof, fastening means for said frame members comprising a plate engaged upon the upper edge of said flange and projecting transversely in opposite directions therefrom, means

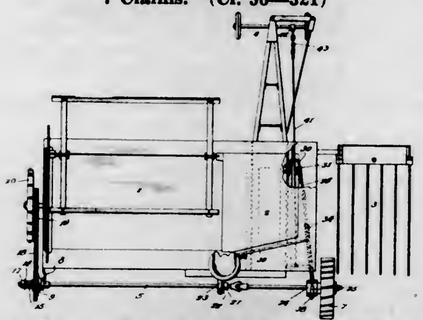
depending from said plate into the channel of the frame member and cooperating with one wall thereof to rigidly and detachably fix said plate in its applied position, said plate having a transverse slot therein opening on one longitudinal edge of the plate, a stud projecting outwardly from the inner wall of the other frame member to be received in said slot, and a spring held fastening button pivotally mounted on said plate and having means to cooperate with said stud and releasably retain said frame members in face to face contact with each other.

1,947,491
PREPARING TETRACHLOROETHYLENE
John H. Reilly, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application February 1, 1933. Serial No. 654,602
8 Claims. (Cl. 260—166)



1. In preparing tetrachloroethylene, the step which consists in subjecting a mixture of an olefine chloride and chlorine to a temperature between about 300° and about 500° C. in the presence of a porous surface catalyst.

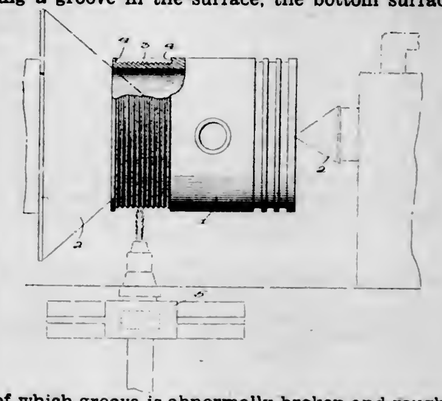
1,947,492
MEANS FOR OVERCOMING SIDE DRAFT
Lutie A. Roggensack, Moorhead, Minn.
Application August 6, 1932. Serial No. 627,771
7 Claims. (Cl. 56—321)



1. The combination with the grain wheel of a harvester, of a supplemental bull wheel disposed adjacent the opposite side of the harvester, a shaft mounted at the rear of the harvester and carrying said bull wheel, and gear connections between said shaft and the grain wheel of the harvester.

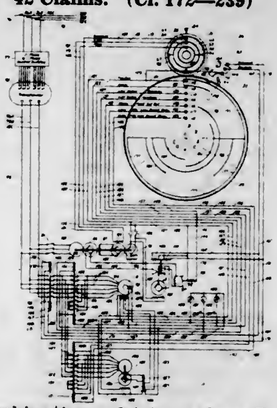
1,947,493
COATING OF MACHINE ELEMENTS
Thomas Roy Rose and Herman L. Engle, Calexico, Calif., assignors to Rose-Engle Company, a corporation
Application July 17, 1931. Serial No. 551,522
5 Claims. (Cl. 22—203)

1. A process of inlaying a metallic band in the external surface of a metallic machine element, comprising rotating an element in contact with a cutting tool arranged to break the metal in forming a groove in the surface, the bottom surface



of which groove is abnormally broken and rough, and building metal in the groove by spraying.

1,947,494
ELECTRIC RAILWAY SYSTEM
Allen M. Rossman, Wilmette, Ill., assignor, by mesne assignments, to Rossman, Sargent & Lundy Patents Corporation, Chicago, Ill., a corporation of Illinois
Application May 25, 1929. Serial No. 365,832
42 Claims. (Cl. 172—239)



1. In combination a driving axle, a D. C. motor and an A. C. motor differentially connected thereto, and a controller for controlling the application of alternating current to the A. C. motor and direct current to the D. C. motor either separately or simultaneously.

24. In a device of the class described the combination of a source of three phase A. C. current collecting means, a driving axle, a traction D. C. motor having a shunt field and a series field, a traction A. C. motor, said motors being differentially connected to said axle, an A. C. motor—D. C. generator set both said A. C. traction motor and said second A. C. motor being operable on single phase, a transformer between the source of A. C. and the A. C. motors, means for shifting the connections of the transformer to supply single phase A. C. to all of the windings of said A. C. motors, said A. C. traction motor having a double speed winding, switches controlling the connections of said winding, a brake for said A. C. motor, a series circuit including the arma-

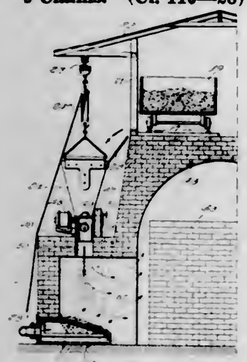
tures of the D. C. motor and the D. C. generator, a field control circuit for said D. C. generator, a controller having a rheostat for governing the field control circuit and having a series of control contacts including a brake control contact for the A. C. motor, a contact for controlling the connection of the series field of the D. C. motor, a contact for controlling the low speed connection of the A. C. traction motor and a contact for controlling the high speed connection of said A. C. traction motor, said contacts being successively brought into action while said rheostat is varied to control the speed and direction of the D. C. traction motor.

1,947,495
SEWING MACHINE NEEDLE AND CUTTER PLATE
Zacharia Routtenberg, Los Angeles, Calif.
Application June 20, 1932. Serial No. 618,164
2 Claims. (Cl. 112—129)



1. A combined needle and cutter-plate comprising a larger section and a smaller exchangeable section, the larger section having a portion forming the top over which the material is handled with a needle-hole and a feeder-hole and being shouldered along a line parallel to the movement of the material handled over the plate forming an abutment edge, the larger section having furthermore two wings extending laterally from the said portion beyond the said edge and set off below the said top, the smaller section having a heavier portion with shoulders to fit shiftably between said wings and having portions to rest upon said wings with a top to come flush with the top of the first named section and with a lateral edge to abut against the first named edge, the smaller section having furthermore a recess forming a cutting edge parallel to the other edges.

1,947,496
KILN APPARATUS
John J. Schmidt, Frederick, Md., assignor to The Frederick Iron & Steel Company, Frederick, Md., a corporation of Maryland
Application July 26, 1930. Serial No. 470,975
9 Claims. (Cl. 110—28)



1. In combination with a kiln having a plurality of combustion chambers, a plurality of groups of automatic firing means for cooperating with selected groups of combustion chambers, each combustion chamber having fuel and air intake connections and each firing means having fuel and air discharge connections for detachable connection with the intake connections of the combustion chambers, and means for progressively shifting the groups of firing means along the kiln from one group of combustion chambers to another.

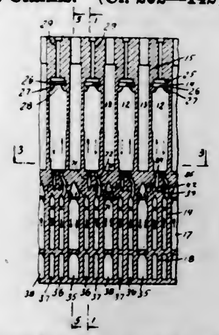
1,947,497
WATER PAINT
Herman A. Scholz, Oak Park, Ill., and Wilbur S. Randel, Farnams, Mass., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application August 23, 1930, Serial No. 477,477. Renewed May 12, 1933
7 Claims. (Cl. 134—46)

1. A paint composition comprising a mineral filler, casein, titanium pigment, zinc oxide, Irish moss, hydrated lime, borax, and tribromophenol.

1,947,498
WATER PAINT
Herman A. Scholz, Oak Park, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application December 3, 1932 Serial No. 645,587
5 Claims. (Cl. 134—50)

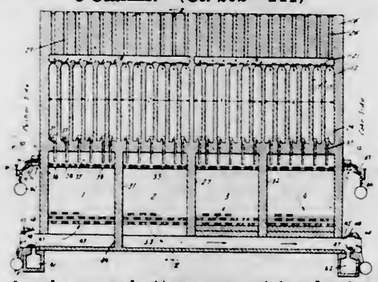
5. A dry powdered paint composition that on being mixed with water forms therewith a smoothly flowing liquid free from lumps and gritty particles and which composition is permanently stable when stored dry, comprising casein particles coated with oil, and anhydrous sodium borate, the latter in an amount sufficient to act as a latent solvent for the casein.

1,947,499
BY-PRODUCT COKE OVEN
Lloyd F. Schrader, Ozone Park, and Frederick P. Hart, Whitestone, N. Y., assignors to Semet-Solvay Engineering Corporation, New York, N. Y., a corporation of New York
Application August 12, 1930. Serial No. 474,703
2 Claims. (Cl. 202—142)



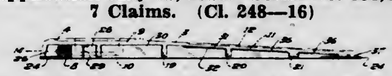
1. A coke oven battery comprising horizontally elongated coking chambers and heating walls therefor arranged side by side in alternate relation, each of said heating walls being constituted of vertical combustion flues disposed in pairs throughout the length of the heating wall, the individual flues of each pair being communicably connected at their tops, one individual flue of each pair being adapted for operating for inflow while the other individual flue of each pair in each heating wall operates for outflow, and a regenerator system beneath said coking chambers embodying crosswise extending regenerators disposed the width of the oven battery, parallel to the coking chambers and arranged in series of four, lengthwise of the battery connected to the flues of each heating wall, two of the regenerators of each of said series being respectively individual to the inflow and outflow flues of said heating wall and operating for the inflow of gas to the inflow flues and outflow of products of combustion from the outflow flues and the other two regenerators of each of said series being each of increased capacity as compared with the capacity of each of the said regenerators individual to the inflow and outflow flues and being connected to the flues of said heating wall and also to the flues of a contiguous heating wall and operating for the inflow of air to the flues communicably connected therewith and for the outflow of products of combustion from the flues communicably connected therewith, each of said regenerators being communicably connected with the flues by a single horizontal passage extending above the regenerator and having conduits connecting the horizontal passage with the flues.

1,947,500
COKE OVEN
Lloyd F. Schrader, Ozone Park, and Frederick P. Hart, Whitestone, N. Y., assignors to Semet-Solvay Engineering Corporation, New York, N. Y., a corporation of New York
Application October 8, 1930. Serial No. 487,183
5 Claims. (Cl. 202—144)



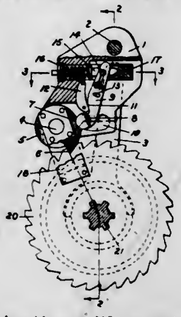
2. A coke oven battery comprising horizontally elongated coking chambers and heating walls therefor, arranged side by side in a row in alternate relation, each of said heating walls comprising a plurality of equal groups of vertical combustion flues, the individual flues of each group being concurrently operable for flow in the same direction, the inflow operating groups alternating with the outflow operating groups, each group of inflow flues being connected with a contiguous group of outflow flues, a regenerator system beneath said coking chambers comprising regenerators communicably connected with said flues and arranged in rows, each row extending crosswise of the battery, there being one regenerator in each row for each group of flues, a chimney flue at each side of the battery, a pair of passages leading from the chimney flue at one side of the battery to alternate regenerators of each row beginning with the regenerator immediately adjacent to said chimney flue at the said one side of the battery, each of said passages being individual to a regenerator, located in the base thereof, communicably connected therewith and terminating at the end walls of the regenerators remote from the said chimney flue at the said one side of the battery, and a pair of passages communicably connecting the remaining regenerators of each row to the chimney flue at the other side of the battery, each of said passages being individual to a regenerator, located in the base thereof and leading from the end wall of the regenerator remote from the said chimney flue at the said other side of the battery to said chimney flue.

1,947,501
MACHINE BASE
William Erastus Sharp, Chicago, Ill.
Application May 22, 1929. Serial No. 365,134
7 Claims. (Cl. 248—16)



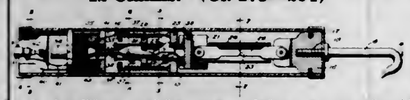
5. In combination, a base for an exercising machine comprising an upper web portion relatively narrow at one end and formed for connection with a mechanism housing of said machine, widened at the other end and sloping away from said narrow portion to provide a platform for supporting a patient undergoing treatment, the periphery of said web being formed with a depending flange, the web between said flange bein rigidified by a plurality of longitudinally extending ribs depending therefrom intermediate the sides of said flange and intersected by a plurality of transversely extending rib portions disposed between the end portions of said peripheral flange, and a rubber mat comprising a flat rim portion engaging the lower edge of said peripheral flange and formed with a plurality of upstanding lug portions disposed inwardly of the rim portion and engaging the inner face of said flange, said lug portions being spaced from one another to embrace the rib portions of the base therebetween.

1,947,502
STOP FOR ROTATING PARTS
Edward M. Shinkle, United States Army, Higginsport, Ohio
Application January 23, 1933. Serial No. 653,076
5 Claims. (Cl. 192—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. The combination with a rotatable member provided with pawl engageable elements, of a pawl body mounted for rocking movement adjacent to said member, said body provided with arcuate slots, a pawl carried by the body and arranged for rocking movement independent of the body, said pawl provided with a curved depression, a lever mounted in the body, a cylindrical end on the lever slidable in the slots and adapted to engage the depression to lock the pawl against independent movement, and means for rocking the lever to release the pawl.

1,947,503
MEANS FOR PROTECTING TRAILING CABLES
Walter C. Shunk, Chicago, Ill.
Application January 20, 1932. Serial No. 587,807
12 Claims. (Cl. 175—294)

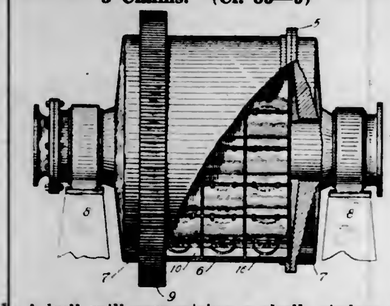


1. A trailing cable comprising a conducting core, a sheath of insulation about the core, an auxiliary conductor embedded in the sheath, a coupling for connecting the cable to a source of energy, a fuse within the coupling, a conducting strip conveying current from the fuse to the core of the cable, a branch conductor extending between the main conductor and the auxiliary conductor of the cable, and means whereby the fuse will be broken upon the completion of a circuit through the branch conductor.

1,947,504
CEMENT PRODUCT AND METHOD OF MAKING THE SAME
Howard R. Starke, Riverside, Calif., assignor to Riverside Cement Company, Los Angeles, Calif., a corporation of Delaware
No Drawing. Application April 20, 1931
Serial No. 531,639
26 Claims. (Cl. 106—25)

1. A cement product comprising a finely ground mixture containing materially less than 1% of particles exceeding 50 microns in diameter, said mixture consisting principally of Portland cement and containing between .05% and 1% oleaginous material interground with said Portland cement.

1,947,505
GRINDING MILL
Elmer L. Van Pelt, Denver, Colo., assignor to American Ball Mill Company, Denver, Colo.
Application March 23, 1931. Serial No. 524,549
3 Claims. (Cl. 83—9)



1. A ball mill comprising a shell, girders upon the inner surface thereof, a lining for the shell composed of sections seated on the girders, and wedging keys between the sections for locking them in place.

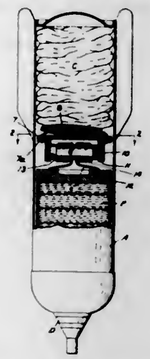
1,947,506
METHOD FOR TREATING SAUSAGES
Charles H. Vogt, Philadelphia, Pa.
Application May 7, 1928. Serial No. 275,778
9 Claims. (Cl. 99—11)

1. A method of treating sausages in molds to facilitate extraction thereof from the molds without injury to the sausages comprising suddenly chilling the sausages in the molds below a freezing temperature by passing the molds over a definite path at a predetermined rate of movement



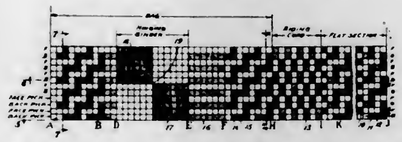
through a medium maintained at a very low temperature; and subsequently causing the temperature of the molds to rise by subjecting the same to ordinary room temperature.

1,947,507
SHOCK ABSORBER FOR PARACHUTES
Samuel Wiley, Metuchen, N. J.
Application June 13, 1932. Serial No. 616,941
3 Claims. (Cl. 244—21)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



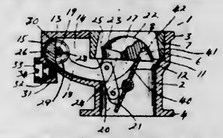
2. In combination with a parachute and a body to be suspended thereby, a coiled connecting means between said members, and means cementing the coils of the connecting means and yieldingly resisting uncoiling thereof.

1,947,508
FABRIC
Frederick J. Zimmerer, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application February 6, 1931. Serial No. 513,903
6 Claims. (Cl. 139—384)



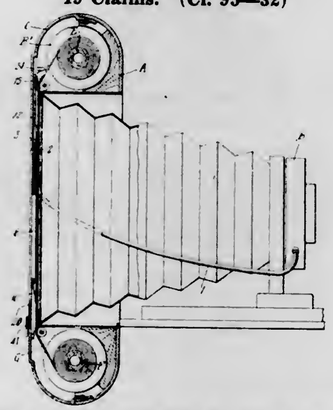
1. A fabric comprising a flat section, a bag extending lengthwise of the fabric, and a plurality of binder elements sub-dividing the bag lengthwise, each binder element comprising a plurality of warp threads and said elements lying side by side without intervening warp threads, the greater part of each element lying outside said bag with the element passing through the bag at intervals of a plurality of picks and exposed alternately on opposite faces of the fabric.

1,947,509
GOVERNOR
James W. Anderson, Detroit, Mich., assignor to Monarch Governor Company, Detroit, Mich., a corporation of Michigan
Application February 25, 1924, Serial No. 695,132
Renewed May 9, 1932
11 Claims. (Cl. 137—152)



1. In a governor, the combination with a conduit and a throttle therein, of an actuating member pivotally mounted for angular movements in said conduit, a connection between said throttle and said member for actuating the former from the latter, said member being positioned to offer the minimum obstruction to said conduit when said throttle is in open position and being stream lined to increase the gaseous flow when in said position.

1,947,510
CAMERA
Grosvenor Atterbury, New York, N. Y.
Application November 16, 1931
Serial No. 575,201
19 Claims. (Cl. 95—32)



1. In a camera including a shutter, actuating means therefor, and a film including a light sensitive member and a covering, means operatively controlled by said actuating means to lock the same, and means controlled by the film covering independently of the light sensitive member to return the locking means to inoperative position.

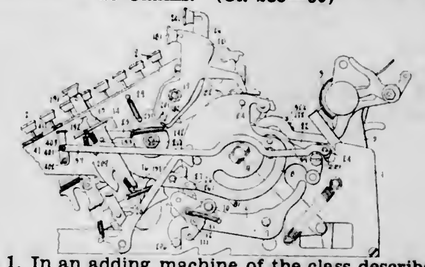
1,947,511
PLUNGER LIFT CONTROL DEVICE
Henry T. Baggett, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Texas
Application December 20, 1932
Serial No. 648,051
7 Claims. (Cl. 103—52)

1. In a plunger lift device, an eduction tube, a plunger therein movable by pneumatic pressure the full length of said tube, a stop member adjacent the lower end for said plunger, a stand pipe connected with said tube adjacent said stop member, a port in said tube to receive gaseous fluid from said stand pipe, and a valve to close said port when the pressure of fluid in said stand



pipe exceeds that in said tube by a predetermined amount.

1,947,512
AUTOMATIC SIGNAL FOR ADDING MACHINES
Glenn J. Barrett, Grand Rapids, Mich., assignor to Portable Adding Machine Company, New York, N. Y.
Application September 8, 1931. Serial No. 561,550
29 Claims. (Cl. 235—60)



1. In an adding machine of the class described having the elements as specified, the combination of an identifying non-add type character mounted upon a suitable movable carrier, positionable by the movement of the settable non-add means of the adding machine, and a second identifying type character mounted upon an independent carrier, said second identifying character being in lateral alignment with said non-add character, a yielding means for maintaining said second identifying character in proximity to said non-add character during a totaling operation of said adding machine, and means for maintaining said second identifying character away from said non-add identifying character and out of printing position when the accumulators of the adding machine are out of operative relation with their respective actuators, consisting of suitable connections from said independent carrier to the accumulator frame of said adding machine.

1,947,513
PROCESS FOR THE AFTER-TREATMENT OF LEATHER
Max Bergmann, Dresden, Germany
No Drawing. Application August 8, 1933, Serial No. 684,222, and in Germany December 21, 1931
17 Claims. (Cl. 149—5)

1. A process for the after-treatment of leather tanned or treated with vegetable tanning agents,

consisting in that the leather, treated with the vegetable tanning agents, before being washed-out is further treated with an aqueous solution of combinations obtained by the condensation of a urea and an aldehyde.

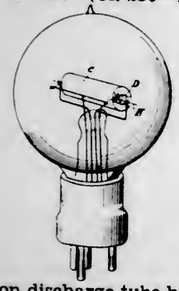
1,947,514

THREE-ELECTRODE VACUUM TUBE

Jacques Biguet, Lyons, France

Original application August 29, 1931, Serial No. 496,554, and in France October 23, 1915. Divided and this application May 28, 1932. Serial No. 614,243

5 Claims. (Cl. 250—27.5)



1. An electron discharge tube having a cathode and a control electrode and a plate electrode made of a trellis of wire.

1,947,515

ELEVATED TANK

Bryan M. Blackburn, Newnan, Ga., assignor to R. D. Cole Manufacturing Co., Newnan, Ga., a corporation of Georgia

Application September 21, 1933
Serial No. 690,494
9 Claims. (Cl. 220—1)



1. Self-shape sustaining substantially spherical elevated storage tank comprising a shell, a vertical tubular buttress arranged axially within said shell and secured adjacent the poles thereof, and a system of radially disposed struts within said shell secured thereto at intervals in a zone adjacent the equator of said shell and reacting against said buttress.

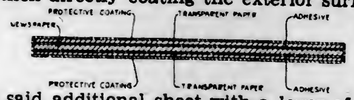
1,947,516

PROTECTING DOCUMENTS, NEWSPAPERS, AND THE LIKE

Joseph Broadman, New York, N. Y.

Application October 18, 1932. Serial No. 638,298
8 Claims. (Cl. 154—40)

1. A method of protecting a flexible sheet of printed paper, which consists in connecting an additional flexible sheet of light-permeable material to each side of said sheet of printed paper, each said additional sheet being connected to the printed sheet by means of an intermediate layer of adhesive which is caused to enter and to penetrate only the inner part of the additional sheet, and then directly coating the exterior surface of



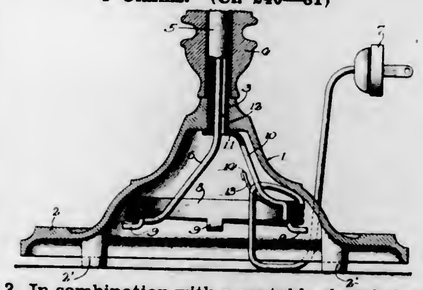
each said additional sheet with a layer of light-permeable protective material which is caused to enter said additional sheet and to penetrate only the outer part of said sheet, said layer of protective material being flexible and non-peeling and having a resin base.

1,947,517

ELECTRIC LAMP CORD RETAINING DEVICE

Louis Brosilow, William Markoff, and John Orosz, Chicago, Ill.

Application November 12, 1931
Serial No. 574,655
4 Claims. (Cl. 240—81)



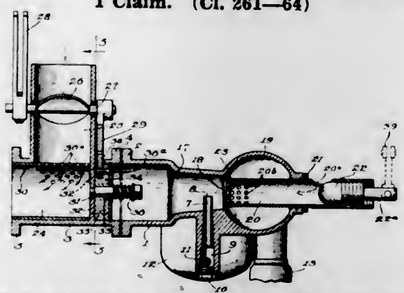
3. In combination with a portable electric lamp base and standard, a horizontally positioned annulus received within said base and accessible from the under side of the base whereby to permit of the manual coiling or uncoiling of the electric lamp cord thereupon or therefrom, an extension from said annulus connected at its free end to the lamp base adjacent the point of jointure between the base and the standard for supporting the annulus within the base, and means carried by said extension for releasably securing a portion of the electric cord whereby to secure that part of said cord engaged with the annulus against displacement.

1,947,518

CARBURETOR

Emil P. Butusov, Hollywood, Ill.

Application November 4, 1932. Serial No. 641,157
1 Claim. (Cl. 261—64)



In a carburetor, a pressure equalizing chamber, a restricted air inlet in said chamber, said inlet comprising a tubular shell extending into said chamber and projecting beyond the outer wall thereof, the portion of said shell extending in said chamber being provided on its end with a plurality of perforations forming ports, the portion of said shell extending beyond the outer wall of said chamber being provided with an aperture for admitting air to said tube and said portion of said tube being internally threaded for receiving an externally threaded valve for controlling the amount of air admitted to said tube, a vaporizing chamber having a fuel inlet, a mixing chamber being provided with a secondary air inlet, a rotary valve interposed between said mixing chamber and said vaporizing chamber, a butterfly valve in said secondary air inlet for controlling the amount of air admitted to said mixing chamber, and means for simultaneously controlling both of said valves.

1,947,519

MEDICINAL OIL SOLUTIONS

Edgar B. Carter and Edmond E. Moore, Waukegan, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application July 17, 1931
Serial No. 551,560
9 Claims. (Cl. 167—58)

1. The improvement in the art of preparing a stable oil solution of an acidic organo-mercuri compound which normally is insoluble in oil, which compound is adaptable for application to the mucus membrane of the human body, said process consisting in forming an alkyl amine salt of said compound and incorporating said salt and an alkyl amine soap in a mineral oil which is liquid at ordinary temperatures.

1,947,520

METHOD OF PREPARING FOOD PRODUCTS

Bernard J. G. Chiego, Newark, N. J.

No Drawing. Application February 16, 1932
Serial No. 593,412
2 Claims. (Cl. 99—5)

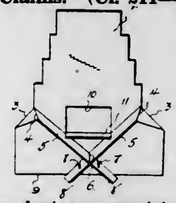
1. The method of preparing a food product which consists in rotating a wire brush having elements of substantial stiffness at a speed best suited to the food article to be operated on, then feeding to the unrestricted peripheral surface of the brush an article of food, whereby the same is finely subdivided by the brush by entire removal from the food article of the particles separated therefrom by the brush, and then drying the product coming from the brush.

1,947,521

DISPLAY CARD AND SUPPORT

Bernard A. Einson, Yonkers, N. Y., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of New York

Application June 4, 1932. Serial No. 615,350
3 Claims. (Cl. 211—157)



3. A display device comprising a show card and an easel integral therewith, said easel being composed of side pieces folding on diagonally disposed crease lines whereon said pieces are foldable so as to converge to form a support for said show card in an angular position and said show card having a cut out portion adapted to be folded so as to be displaced relatively to said show card as a platform to support a piece of merchandise.

1,947,522

PROCESS OF REMOVING FATTY AND PITCHY MATTERS FROM ANIMAL FIBRES AND FOR MAKING THEM MORE READILY FELTABLE

Viktor Fluss, Vienna, Austria

No Drawing. Application November 30, 1932, Serial No. 645,040, and in Austria December 10, 1931
8 Claims. (Cl. 87—6)

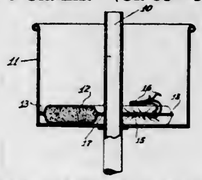
1. A process for treating animal fibres for removing fatty matter therefrom and for making them more readily feltable comprising the step of treating them with solvents of fatty matters at temperatures below 0° centigrade at approximately atmospheric pressure or less, while preserving said fibres and particularly the interior thereof intact, the said solvents being liquid at the said temperatures.

1,947,523

BAG FOR COFFEE PERCOLATORS

Benjamin Hirschhorn, New York, N. Y., assignor to Millie Patent Holding Co. Inc., New York, N. Y., a corporation of New York

Application April 30, 1932. Serial No. 608,444
6 Claims. (Cl. 53—3)



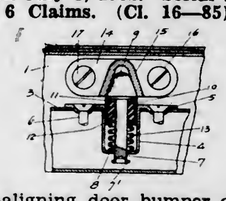
1. A receptacle adapted to receive a substance from which the essence is to be extracted and used in a percolator having a water pipe, said receptacle being formed with an opening in the periphery thereof, a portion adapted to receive a percolator water pipe, and a manually operable closure for the opening, whereby the receptacle may be opened and closed at will.

1,947,524

SELF-ALIGNING DOOR BUMPER

Henry Horldt, Detroit, Mich.

Application July 8, 1932. Serial No. 621,392
6 Claims. (Cl. 16—85)



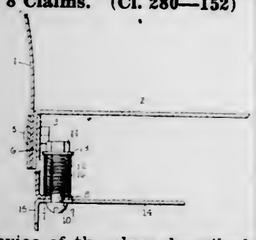
1. A self-aligning door bumper comprising a plunger adapted to be slidably guided in one of the relatively movable parts of a door structure, a striker adapted to be carried by the other part of the door structure to receive one end of said plunger, and a resilient ring surrounding said plunger within the first named part to permit radial shifting of said plunger in all directions.

1,947,525

GUARD FOR VEHICLE RUNNING BOARDS

James W. Hume, Jackson, Mich.

Application October 2, 1931. Serial No. 566,392
8 Claims. (Cl. 280—152)



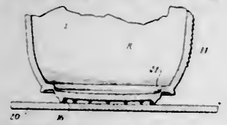
7. In a device of the class described, the combination with a support, of an angular guard plate having spaced right-slots at its angle, bolts disposed through said support engaging said slots of said guard plate, and springs yieldingly supporting said bolts.

1,947,526

METHOD OF MAKING A GLASS ARTICLE

William A. Ingler, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware

Application May 21, 1932. Serial No. 612,691
2 Claims. (Cl. 49—79)



1. The method of making pressed glass articles, which comprises pressing an article with a bottom having a plurality of small projections depending therefrom, placing the article on a lehr pan so that the body of the pressed article is held out of contact with the pan by the projections, whereby circulation of gases about the bottom is promoted and heat conduction from the body of the article is retarded, annealing the glass, and breaking away the bottom with projections to have the finished article without any bottom.

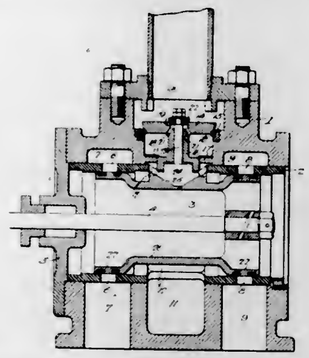
1,947,527

VALVE

Robert C. Lamond, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 25, 1930. Serial No. 431,252
1 Claim. (Cl. 277—7)

In a valve, a casing having intermediate and terminal chambers, and ports respectively communicating with said chambers, a sleeve in said casing having ports communicating respectively with said chambers, a slide valve in said sleeve movable into positions respectively preventing communication between the said chambers and connecting the terminal chambers individually with the intermediate chamber, a valve in said casing controlling the casing port communicating with the intermediate chamber, a supplemental valve carried by the casing valve and also controlling communication between the said casing port and the intermediate chamber, a stem for said supplemental valve extending through the carrier valve and terminating adjacent the sleeve valve in a head portion the terminal surface of which is substantially V-shape, means for guiding said head portion in the carrier valve, and said sleeve valve having therein a cam slot corresponding substantially in form to the V-shaped terminal end of said head portion and adapted to receive the latter, said parts being so constructed and arranged



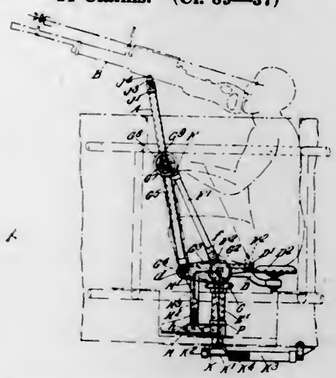
that predetermined movements of the sleeve valve in either direction from a neutral position, wherein communication between the said terminal and intermediate chambers is prevented, result in successive unseating of the supplemental valve and, through the said supplemental valve head portion, of the carrier valve.

1,947,528

MOUNTING FOR MACHINE GUNS CARRIED BY AIRCRAFT

Carl Alfred Larsson and Percy Reuben Higson, Westminster, England, assignors to Vickers-Armstrongs Limited, Westminster, England, a British company

Application August 18, 1931, Serial No. 557,812, and in Great Britain September 15, 1930
14 Claims. (Cl. 89—37)



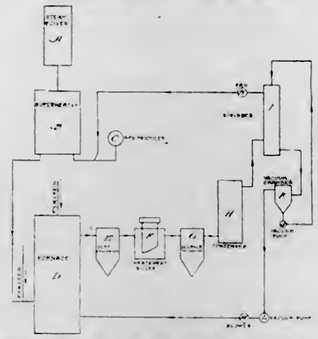
1. In a machine gun mounting for aircraft, the combination of a training member, a post the upper end of which carries the gun and the lower end is pivotally connected to said training member at a point some distance from the training axis of said member, training mechanism including chain and sprocket gearing, one of the sprockets being mounted co-axially with respect to the pivot connecting the post to the training member, and a hand operated device for driving said gearing.

1,947,529

RECOVERY OF SULPHUR

Louis Frederick William Leese, London, England

Application December 8, 1932, Serial No. 646,295, and in Great Britain December 1, 1931
9 Claims. (Cl. 23—224)



1. A process for the recovery of sulphur from metallic sulphides, sulphur ores, spent oxide and like material consisting in subjecting the material to the action of superheated steam in a reaction chamber at a reaction temperature between 440° C. and 1000° C., maintaining said temperature substantially solely by adjustment of the temperature of the said steam and by the relative amount at the reaction temperature of the said steam, and recirculating excess hydrogen sulphide to the reaction chamber, whereby the steam and the material are mutually decomposed forming inter alia free hydrogen and sulphur, and removing the sulphur evolving.

1,947,530

NITRATED SUGAR EXPLOSIVE

Harold A. Lewis, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 22, 1931
Serial No. 582,079
14 Claims. (Cl. 52—13)

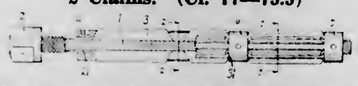
1. An explosive comprising a nitrated ketose free from nitrated aldoses in solution in a liquid nitric ester.

1,947,531

REAMER

John G. Matthews, Berea, Ohio

Application October 29, 1931. Serial No. 571,795
2 Claims. (Cl. 77—75.5)



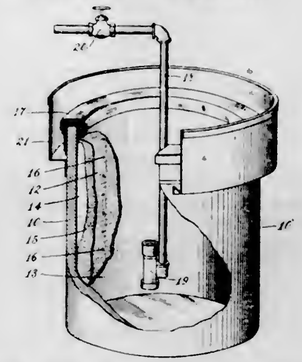
1. In a reamer having adjustable blades, the combination of a central stem with tapered blade seats reduced and screw threaded at its ends and having longitudinal slotted ways to serve as seats for reamer blades, a series of adjustable reamer blades beveled at their ends and adjustably seated in said ways, and adjustable along the same, collars intermediate the said series of blades with inwardly-projecting blade-like lugs conforming to the way in said stem, and beveled to correspond to and to engage the beveled ends of said blades, and cup nuts on the ends of said stem to embrace and engage the beveled ends of the adjacent blades whereby the longitudinal adjustment by said nuts varies the dimensions of the reamer sections.

1,947,532

TANK LINING AND METHOD OF LINING TANKS

Allan B. Merrill, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Original application July 23, 1926, Serial No. 124,390. Divided and this application June 14, 1930. Serial No. 461,252
12 Claims. (Cl. 220—63)



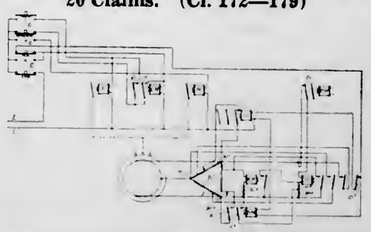
3. A tank made of a rigid, non-thermoplastic material and having an acid-resisting lining comprising a rubber-coated asbestos backing securely fastened to the tank and a sheet-rubber facing bonded thereto by vulcanization.

1,947,533

AUTOMATIC CONTROL FOR MOTORS

John D. Nies, St. Charles, Ill., assignor to The Kimble Electric Co., Chicago, Ill., a corporation of Illinois

Application June 11, 1931. Serial No. 543,517
20 Claims. (Cl. 172—179)



1. The combination with a polyphase slip-ring motor including a rotor, of a resistance for controlling said motor, a magnetic switch having contacts for rendering effective a predetermined portion of said resistance only of a suitable value for providing the desired starting torque, and having an operating coil, said coil being in and controlled by the rotor circuit.

1,947,534

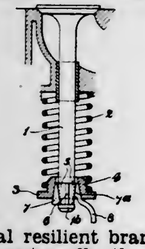
VALVE COTTER FOR INTERNAL COMBUSTION ENGINES

Alexander Flexman Payne, Redditch, England

Application May 9, 1932, Serial No. 610,109, and in Great Britain May 9, 1931
9 Claims. (Cl. 251—144)

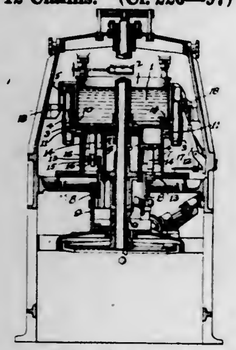
3. A cotter for a valve of an internal combustion engine, comprising two sheet metal half-sleeves, integral outwardly-projecting ribs on the half-sleeves and integral outwardly-pro-

jecting flanges at opposed edges of the half-sleeves, the said half-sleeves being connected to-



gether by integral resilient branches extending downwardly and outwardly therefrom.

1,947,535
DRIPLESS NOZZLE FOR FILLING MACHINES
John Schmidt, Buffalo, N. Y., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application September 30, 1932
Serial No. 635,680
12 Claims. (Cl. 226—97)



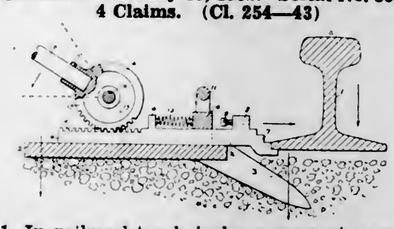
1. A filling machine having a series of filling nozzles and movable plungers therein, a source of material supply, means for drawing a charge of material from said supply, a measuring chamber for receiving said charge, said means moving said charge from said chamber into a positioned can through said nozzles, a suction chamber formed adjacent the mouth of said nozzles and said plungers whereby material adhering to the said nozzles and the ends of said plungers will be prevented from dripping therefrom by suction created in said suction chamber.

1,947,536
REMOTE CONTROL DEVICE
William Shakespeare, Jr., Kalamazoo, Mich., assignor to Shakespeare Products Company, Kalamazoo, Mich.
Application February 9, 1933. Serial No. 655,887
12 Claims. (Cl. 126—286)



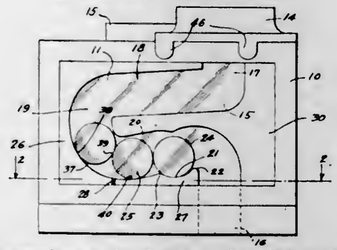
1. In a control device, the combination of a cylindrical casing having a front wall provided with a central opening and an inwardly projecting annular bead, a drum disposed in said casing and comprising a grooved rim and a web provided with a central outwardly flanged opening, said rim having a pair of openings therein and said web having a loop struck inwardly therefrom adjacent said openings, resilient wire transmission elements oppositely disposed about said rim and having their ends engaged in said openings in said rim and with said loop, said casing having openings through which said wires are disposed, said transmission elements having frictional engagement with the periphery of said housing member for retaining said drum centered and in its adjusted positions, a handpiece constituting a cover for said opening in said casing and having spaced holes, and a face plate provided with lugs extending through said holes and connected to the web of the drum whereby the drum is rotatably supported in engagement with said annular bead of said casing.

1,947,537
TRACK JACK
Calisto Spagna, Wheeler, Ind.
Application February 15, 1932. Serial No. 592,862
4 Claims. (Cl. 254—43)



1. In railroad track jacks, a support comprising a suitable base, a slidable rack movable endwise of the support on its upper face, a toothed segment for operating the rack, a series of steps at the front end of the rack, and a pair of prongs projecting downwardly from the front end of the base, whereby as the rack is moved forward the prongs prevent the base being moved rearward.

1,947,538
SPURIOUS COIN DETECTOR
Cecil H. Underwood, Oakland, Calif.
Application September 30, 1932
Serial No. 635,706
12 Claims. (Cl. 194—98)

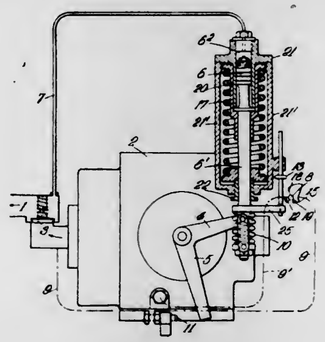


1. A spurious coin detector for slot machines, comprising a housing having a circuitous path for a coin and provided with means for retaining a first coin in a visual position adjacent a discharge slot, and for retaining a second coin in follow position to the first coin and also in visual position, said first coin being forwarded into the discharge slot by impact of a third coin, through the interposed second coin.

1,947,539
METHOD OF FORMING BALL CENTERS
Douglas Frank Twiss, Wylde Green, Birmingham, and Albert Edward Toney Neale, Ward End, Birmingham, England, assignors to Dunlop Rubber Company, Limited, a British company
No Drawing. Application December 9, 1932, Serial No. 646,479, and in Great Britain December 12, 1931
10 Claims. (Cl. 154—18)

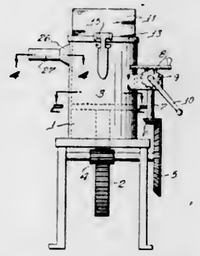
2. A method of forming ball centers liquid at normal temperatures which comprises separately forming parts of said center in solid form of substances that undergo liquefaction upon remaining in contact with each other and contacting and assembling said parts to a center, while enclosing them in an enclosure that is impermeable to the liquid resultant from an admixture of said solids.

1,947,540
CONTROL GEAR FOR VARIABLE DELIVERY PUMPS
William Wallace, Edinburgh, Scotland, assignor to The Variable Speed Gear Limited, Newcastle-upon-Tyne, England, a British Company
Application April 2, 1931, Serial No. 527,224, and in Great Britain April 26, 1930
12 Claims. (Cl. 103—38)



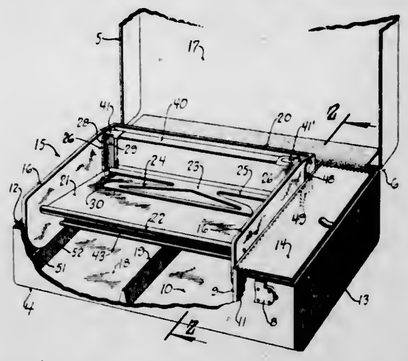
1. Control gear for a variable delivery pump, comprising in combination a spring-loaded piston influenced by the pressure in the delivery system, a pump control member operated by said piston to vary the pump delivery, a by-pass conduit in which fluid circulates when a predetermined maximum working pressure in the pump delivery system is exceeded, a stop against which the pump control member bears in the minimum delivery position, a spring between said member and said piston permitting over travel of the latter when said member is in contact with said stop, a rotary by-pass valve controlling said conduit, a cam on said valve, a tappet moving with said piston for engaging said cam during the over travel movement of the piston, a plunger co-operating with said cam in the open position of the by-pass valve to impart quick closing movement to said valve when the piston recedes on decrease of pressure in the delivery system, and a check valve for isolating the pump from the delivery system when the predetermined maximum working pressure in the pump delivery is exceeded.

1,947,541
SAUSAGE MACHINE
Eugene Wengel, Detroit, Mich.
Application February 9, 1931. Serial No. 514,486
6 Claims. (Cl. 17—38)



1. A device of the character described comprising a casing having a slotted cover, a reciprocal piston mounted in said casing, a partition mounted on said piston and extending through the slot in said cover, a nozzle supported externally of said casing having a plurality of longitudinally extending passages, and passages communicating with said casing above said piston and alternately leading from opposite sides of the partition in said casing to alternate passages in said nozzle.

1,947,542
HAND LUGGAGE CASE
George Henry Wheary, Racine, Wis., assignor to The Wheary Trunk Company, Racine, Wis., a corporation of Wisconsin
Application July 8, 1932. Serial No. 621,325
13 Claims. (Cl. 190—41)



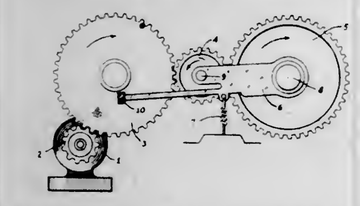
1. In a hand luggage case of the character described, hingedly connected sections, means to carry the case with the hinged connection between its sections at the bottom, a garment receiving unit hingedly mounted within the case for movement about an axis parallel to and adjacent the hinged connection between the sections, said unit comprising a flat wall extending from the bottom toward the top of the case and inclined with respect to the sides of the case when in its normal carrying position to define garment receiving chambers of unequal depth at opposite sides of the flat wall, hanger retainer means in the deep end portion of one of the chambers adjacent the hingedly connected walls of the case sections, hangers mounted thereon and adapted to support gar-

ments which extend across the flat wall and are folded over the edge of the flat wall which is uppermost when the case is in carrying position, and retaining means to hold the folded over end portions of the garments against the flat wall.

1,947,543
DAMPED MECHANICAL FILTER

Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 3, 1931. Serial No. 578,687
4 Claims. (Cl. 74—7)

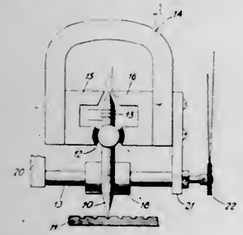


1. A mechanical filter comprising a driving gear, a driven gear, a spring-supported idler gear therebetween, damping means for preventing oscillations of said idler, said damping means comprising a pressure-pad co-operating with a face of said driving gear and movable substantially radially thereof.

1,947,544
SYSTEM FOR DAMPING THE MOTION OF MECHANICAL DEVICES

Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 14, 1932. Serial No. 611,335
13 Claims. (Cl. 274—1)



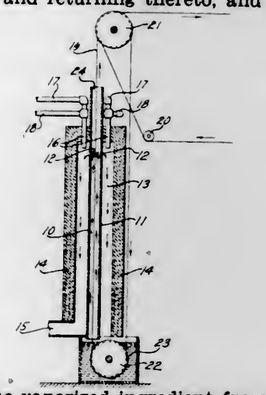
1. A phonographic apparatus including a mechanical system which tends to oscillate at a predetermined frequency, including means having a pair of frictional surfaces arranged to be moved at different speeds in directions substantially at right angles to one another for damping said oscillations.

1,947,545
APPARATUS FOR TREATING MATERIALS

Emerson Pugh, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 15, 1931. Serial No. 568,983
4 Claims. (Cl. 91—55)

1. In an apparatus for treating cores, means to deposit a composition containing a volatile combustible ingredient upon a core, means to vaporize the volatile ingredient, a combustion chamber comprising a passage to receive a core and a separate combustion passage diverging therefrom and returning thereto, and means to

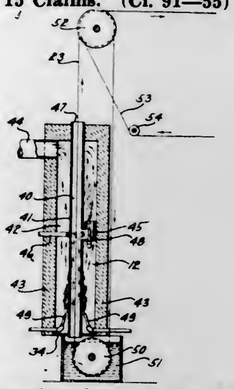


draw off the vaporized ingredient from the core into the combustion passage.

1,947,546
APPARATUS FOR TREATING MATERIALS

Raymond L. Reading, Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 15, 1931. Serial No. 568,985
15 Claims. (Cl. 91—55)



1. An apparatus for treating filiform cores comprising means to apply material containing a volatile combustible ingredient to a core, a tubular baking chamber through which the core passes, a combustion chamber associated with the baking chamber, and a communicating passage into the combustion chamber from the baking chamber located only in the middle third of the latter.

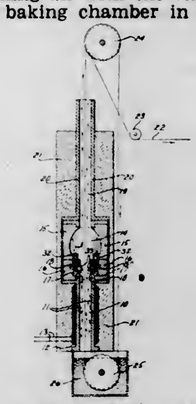
1,947,547
APPARATUS FOR TREATING MATERIALS

Hal F. Fruth, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 15, 1931. Serial No. 568,986
7 Claims. (Cl. 91—55)

1. An apparatus for treating cores comprising means to deposit a composition containing a volatile combustible ingredient upon a core, means to vaporize the volatile ingredient, a combustion chamber in which the vaporized volatile ingredient is burned out of contact with the core, an inspirator through which the vapors

pass for mixing air with the vaporized ingredient, and a baking chamber in which the core

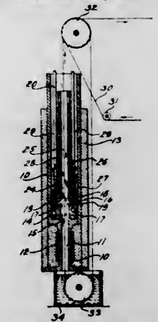


is subjected to the heat of combustion products from the combustion chamber.

1,947,548
APPARATUS FOR TREATING MATERIALS

Hal F. Fruth, Chicago, and Raymond L. Reading, Maywood, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 15, 1931. Serial No. 568,987
11 Claims. (Cl. 263—3)



1. In an apparatus for treating filiform cores having thereon material containing a volatile combustible ingredient, an oven through which the core passes having a tubular vaporizing zone, a tubular baking zone aligned therewith, a combustion chamber associated with the baking zone, and means interposed between the vaporizing zone and the baking zone to transfer vapors from the vaporizing zone to the combustion chamber, said means comprising a manifold and inspirators to transfer the vapors and an auxiliary manifold to supply additional gaseous material to the vapors.

1,947,549
DISPLAY DEVICE

Edward L. Fuchs, St. Louis, Mo., assignor of one-half to William L. Fuchs, St. Louis, Mo.

Application May 15, 1933. Serial No. 671,075
3 Claims. (Cl. 40—135)

1. The herein described method of manufacturing signs, comprising covering a definite, predetermined area of a piece of fabric, constituting a backing for the sign, with a thermoplastic adhesive and stiffening material, in coating all except the margins of said impregnated area with light reflecting material, in covering the entire impregnated area with a masking plate having



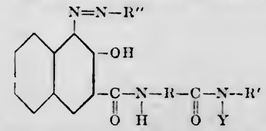
translucent characters, and in embossing the assembly and simultaneously causing the masking plate to adhere to the fabric backing by the application of heat and pressure in suitable dies.

1,947,550
AZO DYES

Emmet F. Hitch, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 9, 1929
Serial No. 384,787
47 Claims. (Cl. 8—5)

1. An azo dye of the general formula

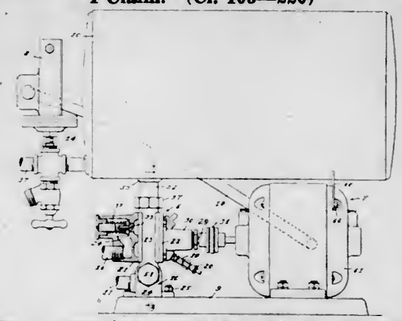


wherein R represents a radical of the benzene series, R′ represents an aromatic or aliphatic radical, R′′ represents an aromatic residue and Y represents a substituent of the class consisting of hydrogen and aromatic and aliphatic radicals, said azo dye being free from sulfonic or carboxylic acid groups.

1,947,551
PUMP UNIT

Stanley H. Hobson, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois

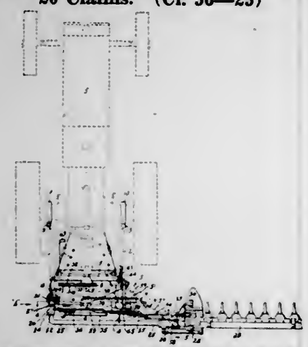
Application August 4, 1931. Serial No. 555,104
1 Claim. (Cl. 103—220)



In a pumping apparatus of the character described, the combination with a supply pipe and a service pipe, of a pumping apparatus compris-

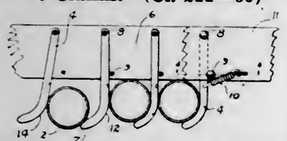
ing in a unitary assembly, a base, a storage tank supported in elevated position thereon and communicating with the service pipe, a pump disposed below the tank on the base with its discharge portion on the upper end thereof and directly connected with the bottom of the tank, the suction portion of said pump being at the bottom thereof and connected with the supply pipe, there being a sediment chamber provided in the suction portion of said pump and the supply pipe communicating with an inlet opening provided in the side wall of said chamber, a hollow cylindrical strainer horizontally disposed in said chamber in transverse relation to the supply pipe, there being a seat provided on one side wall of said chamber around an outlet opening and said strainer having abutment at its inner end with said seat, and a closure for another opening provided in the wall of said chamber opposite the outlet opening serving to hold the strainer in place but permit removal for cleaning of the strainer and sediment chamber.

1,947,552
MOWER
Edwin F. Huddle, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation
Application June 12, 1933. Serial No. 675,355
20 Claims. (Cl. 56—25)



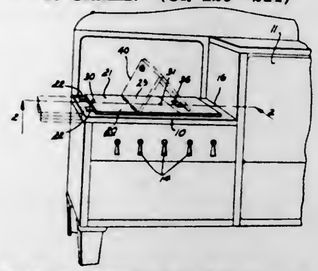
5. In a mower, a main frame adapted to be connected to a tractor embodying a power shaft having a pulley thereon, a support connected to said frame, a pivot-post adjustably connected to the support, a mower frame pivotally mounted on the post and carrying a pulley adapted to be connected to and driven by the power shaft pulley, a push-rod pivotally connected to the mower frame, a cutter-bar connected to the push-rod, means on the mower frame for adjusting the cutter-bar, and means on the main frame for normally holding the mower laterally in cutting position and also whereby when striking obstructions the mower frame will be released to swing rearwardly of the tractor on its pivotal connection.

1,947,553
PIPE RACK
Edwin L. Johnston, Houston, Tex.
Application July 25, 1929. Serial No. 380,956
7 Claims. (Cl. 211—60)



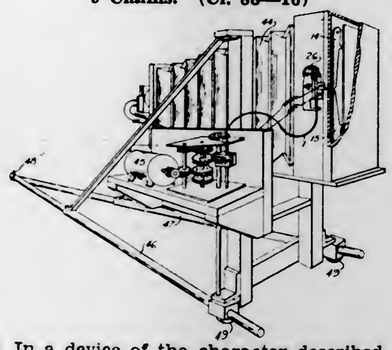
1. A pipe rack including a supporting structure, a plurality of horizontally swinging fingers to engage the pipe sections, and means on each finger whereby the insertion of a pipe section between said fingers prevents removal of the sections previously inserted.

1,947,554
STOVE
Bertrand B. Kahn, Cincinnati, Ohio, assignor to The Estate Stove Company, Hamilton, Ohio, a corporation of Ohio
Application August 5, 1931. Serial No. 555,201
10 Claims. (Cl. 126—214)



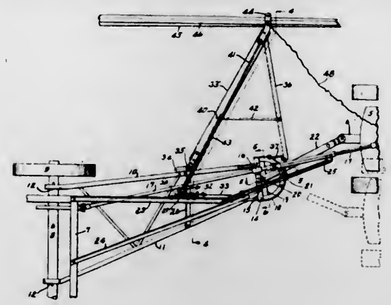
1. In a stove having a cooking top, a movable closure for said cooking top comprising a collapsible plate structure comprising interconnected sections adapted to lie in extended assembly as a cooking top cover, and means for pivotally connecting said plate structure to the stove comprising a hinge for positioning the plate structure over the cooking top for service as a closure therefor, and for supporting the plate structure as a shelf extension having a width less than the lateral extent of the plate structure as a closure.

1,947,555
MECHANISM FOR MOVING CAMERA PLATES OR SHUTTERS
Clarence W. Kanolt, New York, N. Y.
Application May 23, 1930. Serial No. 454,864
9 Claims. (Cl. 88—16)



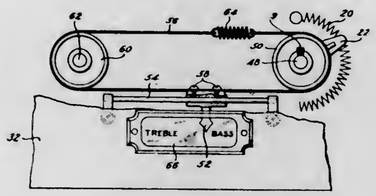
9. In a device of the character described, the combination with a camera having a plate-holder and mechanism to drive the camera through a predetermined arc of a circle about the object to be photographed, of means for transmitting synchronous motion from the driving mechanism to the plate-holder, means actuated thereby to move a photographic plate in the plate-holder carried by the camera, independently adjustable cam means actuated by and synchronizing with said plate-moving means to open and close the shutter of the camera, and indicia to record the movement of said plate-moving means carried on the means to move the plate.

1,947,556
CORN HARVESTING MACHINE
Norman R. Krause, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation
Application August 5, 1933. Serial No. 683,790
6 Claims. (Cl. 56—15)



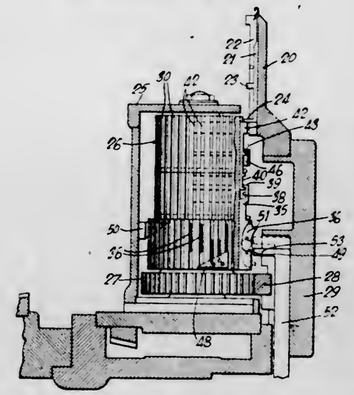
1. In a machine of the class described, a frame, a vertically adjustable drawbar connected to the frame, a quadrant yieldingly mounted on the frame, a guide roller on the frame in which the quadrant travels when vertically adjusted, a lever connected to the frame and adapted to engage the quadrant, a wagon hitch mounted on the drawbar, and means connecting the quadrant and hitch for sustaining the latter in normal position and also when said lever is vertically adjusted.

1,947,557
TONE QUALITY CONTROL
Homer J. Loftis, Dayton, Ohio, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application February 14, 1930. Serial No. 428,374
5 Claims. (Cl. 250—16)



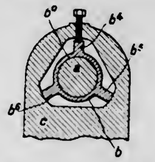
1. In combination with a radio receiver provided with a control panel and a variable tone control impedance disposed behind said panel, a tone control knob on the front of the panel, at least two pulleys disposed behind the panel, means for securing the variable element of said tone control impedance to one of the pulleys, means for affixing said control knob to said one pulley, a belt connecting said pulleys, a scale on said panel adjacent said control knob provided with tone indications corresponding to adjustments of said impedance, a pointer secured to said belt for movement adjacent the scale indications when said control knob is adjusted to vary said impedance, and means for guiding the movement of said pointer in such a manner as to prevent vibration of the pointer during movement thereof.

1,947,558
KNITTING MACHINE
Vincent Lombardi, Brooklyn, N. Y., assignor to Lombardi Knitting Machine Co., Inc., New York, N. Y., a corporation of New York
Application September 27, 1930
Serial No. 484,724
25 Claims. (Cl. 66—50)



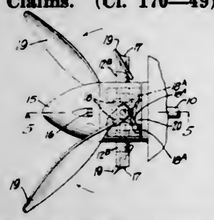
1. In a knitting machine, in combination, a knitting bed having a series of regularly-spaced individually movable knitting elements thereon, pattern control mechanism supported by means immovable with respect to said bed, a pattern drum movable with respect to said bed and said pattern-control mechanism and rotatable during such movement, a plurality of individually-movable positioning elements disposed about said drum and movable substantially axially but immovable radially thereof and spaced similarly to the spacing of said knitting elements, said drum being so positioned that said positioning elements selectively control the actuation of said knitting elements, and setting mechanism carried by said drum for selectively controlling the actuation of said positioning elements in accordance with the operation of said pattern mechanism, each selected positioning element being adapted to contact with a knitting element and to impart longitudinal movement thereto.

1,947,559
BEARING
Otto Mackensen, Jena, Germany
Application March 7, 1930, Serial No. 434,122, and in Germany March 16, 1929
2 Claims. (Cl. 308—240)



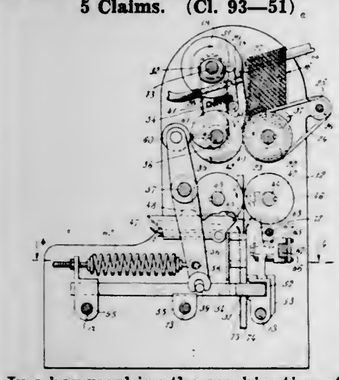
1. A bearing, the housing of which carries a solid bushing containing the contact surface for the shaft, means for deforming the bushing, these means including a series of projections circumferentially spaced on the bushing, and adjustable means for the adjustment of the clearance between the shaft and the bushing, these means being carried by the said housing and engaging certain of the said projections.

1,947,560
AIRCRAFT PROPELLER
Emil Manasek, Berwyn, Ill.
Application January 7, 1931. Serial No. 507,107
3 Claims. (Cl. 170—49)



1. An aircraft propeller comprising a drive shaft, a revolving head fixed to said drive shaft, a plurality of bearings on said head, a propeller shaft mounted in each of said bearings, said propeller shafts being disposed angularly to said drive shaft, a gear fixed to one end of each of said shafts within said head, said gears being in mesh with one another, a propeller blade fixed to the other end of each of said propeller shafts, the longitudinal axis of each of said propeller blades being disposed at a right angle to its propeller shaft, and means for oscillating said blades during their revolution.

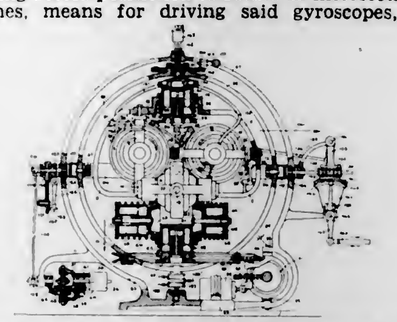
1,947,561
BOX MACHINE
Nicholas Marcalus, Elizabeth, N. J., assignor to Automatic Paper Machinery Co. Inc., a corporation of New Jersey
Application February 27, 1931. Serial No. 518,683
5 Claims. (Cl. 93—51)



1. In a box machine the combination of cooperating feed rollers for advancing a blank, a positioning stop on one of said rollers, a bending lug on the other roller designed to cooperate with the first roller to bend a flap on the blank, and means for positively moving each blank against the positioning stop before it passes between the rollers.

1,947,562
STABILIZING AND DIRECTING GYROSCOPIC CONTROL MECHANISM
Louis Marmonier, Lyon, France
Application April 28, 1928, Serial No. 273,732, and in France May 9, 1927
15 Claims. (Cl. 74—78)

1. In a gyroscopic control assembly, a gyroscope supporting frame, a first pair of gyroscopes, means supporting said gyroscopes on said frame whereby they are capable of precessing about parallel axes, said gyroscopes having rotors positioned to rotate in intersecting planes, a second pair of gyroscopes, means supporting said second gyroscopes on said frame whereby they are capable of precessing about axes positioned at right angles to the precessional axes of the first pair of gyroscopes, said second pair of gyroscopes having rotors positioned to rotate in intersecting planes, means for driving said gyroscopes, a



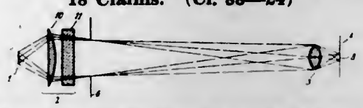
second frame, means movably supporting said gyroscope supporting frame on said second frame, control means for causing the return movement of said gyroscopes to their normal position after displacement therefrom, and instrumentalities whereby said control means is actuated by movement of the gyroscopes relative to the said gyroscope supporting frame.

1,947,563
PROCESS FOR MANUFACTURING AND RECOVERING GLUTAMIC ACID AND ITS COMPOUNDS
Reisuke Masuda and Celestian L. Royal, Toledo, Ohio, and Albert E. Marshall, New York, N. Y., assignors to The Larrowe-Suzuki Company, Rossford, Ohio, a corporation of Ohio
No Drawing. Application April 29, 1931
Serial No. 533,790
13 Claims. (Cl. 260—119)

1. In a process of manufacturing a d-glutamic acid compound from raw materials capable of yielding glutamic acid by hydrolysis, the steps which comprise hydrolyzing a glutamic mother substance in an alkaline solution having an alkalinity of from 3% to 7% expressed as NaOH at a temperature and for a time sufficient to convert the glutamic mother substance into glutamate.

7. In a process of manufacturing a d-glutamic acid compound from raw materials capable of yielding glutamic acid by hydrolysis, the steps which comprise preparing a concentrated solution of a d-glutamic acid compound and hydrochloric acid and having a pH of about 2.1, and adding ammonia thereto until a composition having a pH of about 3.2 is obtained.

1,947,564
OPTICAL SYSTEM
John A. Maurer, Jr., New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 6, 1931. Serial No. 528,095
18 Claims. (Cl. 88—24)



1. A linear-image-forming optical system comprising a plurality of lens components, one of said lens components having cylindrical power and being so located in relation to said light source as to form a linear image between said lens components, and the other of said lens components being located with the said linear image at a focus thereof whereby it will form a linear image of said linear image on an image area at the other of its conjugate foci.

1,947,565
OPTICAL SYSTEM
John A. Maurer, Jr., New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 6, 1931. Serial No. 528,096
4 Claims. (Cl. 88—24)



1. A linear-image-forming optical system comprising a plurality of lens components, one of said lens components including a positive lens element approximately imaging a light source upon the entrance-pupil of another of said lens components and a positive cylindrical lens element forming a linear image of the light source within said positive lens element, the other of said lens components being of positive power and located with the said linear image at a focus thereof, whereby it will form an image of said linear image on an image area at the other of its conjugate foci.

1,947,566
OPTICAL SYSTEM
John A. Maurer, Jr., New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 6, 1931. Serial No. 528,097
2 Claims. (Cl. 88—24)



1. A linear-image-forming optical system comprising a plurality of lens components, one of said lens components including a positive spherical lens of short focal length and a positive cylindrical lens condensing the image formed thereby upon said second lens component, and the other of said lens components being of positive power and located with the image formed by the said spherical lens at a focus thereof, whereby it will form an image of said image on an image area at the other of its conjugate foci.

1,947,567
OPTICAL SYSTEM
John A. Maurer, Jr., New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 6, 1931. Serial No. 528,098
3 Claims. (Cl. 88—24)

1. A linear-image-forming optical system comprising a plurality of lens components, one of said lens components being so located in relation to a light source as to form a virtual linear image of said light source and including a negative spherical lens of short focal length and a positive cylindrical lens of longer focal length, and the other of said lens components being of positive power and located with said linear image at

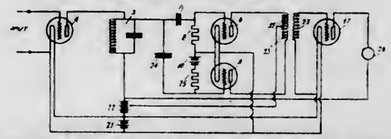


a focus thereof, whereby it will form an image of said virtual image on an image area at the other of its conjugate foci.

1,947,568
CARRON OIL COMPOUND CHLORINATED CREAM
Harry Noonan, White Plains, N. Y., assignor to The Drug Products Co., Inc., Long Island City, N. Y., a corporation of New York
No Drawing. Application September 27, 1930
Serial No. 484,934
1 Claim. (Cl. 167—63)

A stable antiseptic cream containing, in addition to the usual unctuous bases, cottonseed oil, lime water, triethanolamine and chloramine, wherein the resulting Carron oil is in a substantially solid colloidal state and thoroughly homogenized with and dispersed through said bases and which, in this form, does not react with the slowly evolving chlorine liberated from the chloramine.

1,947,569
DETECTOR CIRCUIT
Klaas Posthumus, Eindhoven, Netherlands, assignor to Radio Corporation of America, a corporation of Delaware
Application April 9, 1930, Serial No. 442,811, and in the Netherlands May 23, 1929
4 Claims. (Cl. 250—27)



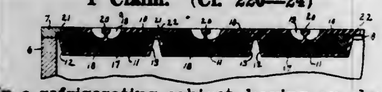
1. In combination, a pair of detector tubes, a common input circuit for said tubes tuned to a desired signal frequency, means connected to the grid of one tube to render it operative as a grid circuit rectifier, means connected to the grid of the other tube to render it operative as an anode circuit rectifier, a condenser coupling the grid of one tube with one side of said circuit, a second condenser coupling the same side of said circuit with the grid of the other tube, a resistive path connected between both said grids and in shunt with said condensers, a common output circuit for both tubes arranged to additively combine the outputs of both tubes, and means for connecting an intermediate point on said path and the cathodes of the tubes to the other side of said input circuit.

1,947,570
TREATMENT OF SODIUM CALCIUM CYANIDE
Edward J. Pranke, Bayside, N. Y., assignor to Grangers Manufacturing Company, Boston, Mass., a corporation of Massachusetts
No Drawing. Application August 1, 1930
Serial No. 472,482
3 Claims. (Cl. 23—79)

1. The process of producing sodium cyanide from sodium calcium cyanide which consists in

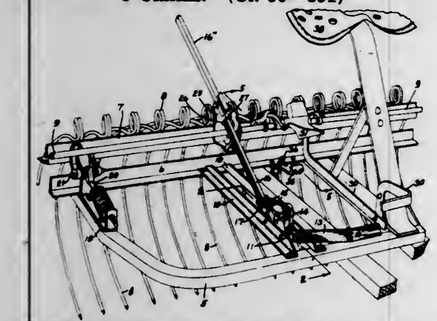
mixing the latter with liquid anhydrous ammonia, separating the solution from the insolubles, and separating the contained sodium cyanide from the solution.

1,947,571
ICE CREAM CABINET
Earl S. Prince, Sterling, Ill.
Application April 24, 1933. Serial No. 667,675
1 Claim. (Cl. 220—24)



In a refrigerating cabinet, having an elongated opening in its top, a sectional closure for said opening, comprising a hard rubber casing provided with a non-projecting handle, said casing being formed integrally of a cover-plate, provided with supporting means, and having at one end a recess, and at the other end a flange of similar contour, a bottom plate, and connecting end and side plates, and an insulator filling for said casing.

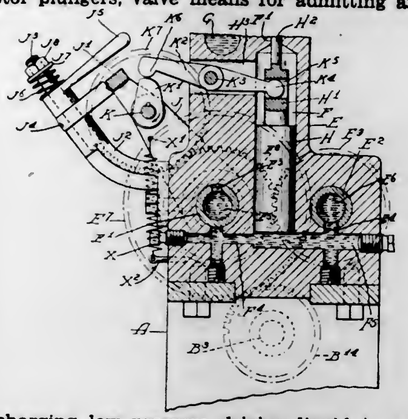
1,947,572
HAY RAKE
Alvah E. Rutter, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation
Application February 17, 1933. Serial No. 657,183
5 Claims. (Cl. 56—391)



1. The combination, with a hay rake, of a frame, wheels having hubs supporting the frame, a toothed rake-head rockingly supported on the frame and having pawl shafts engageable with the hubs, a presser-bar connected to the rake-head, a link connecting the bar to the draft frame, a foot lever connected to said frame, a suspension link connecting the lever to said bar and link whereby the rake-head may be adjusted to raking position by pressure on the lever, a trip-plate on the rake-head, a snubber on the frame adapted to be engaged by the trip-plate, and a trip-lever connected to the trip-plate for engaging the pawl shafts and hubs to rock the rake-head upwardly and forwardly into dumping position and also for engaging said plate with the snubber to release the rake-head from its pawl engagement to be returned to raking position.

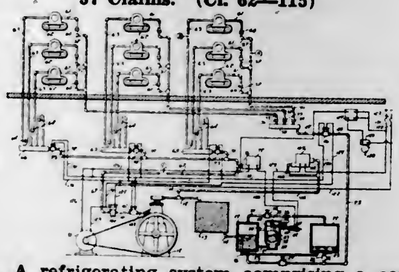
1,947,573
INJECTOR
Philip Lane Scott, Chicago, Ill., assignor to Super Diesel Tractor Corporation, La Porte, Ind., a corporation of New York
Original application June 16, 1926, Serial No. 116,272. Divided and this application July 27, 1931. Serial No. 553,370. Renewed July 7, 1933
19 Claims. (Cl. 103—45)

1. In a multiple high pressure fuel pump for internal combustion engines, a plurality of pump barrels, high pressure plungers arranged to reciprocate in said barrels, intake and discharge valves associated therewith, a plurality of hydraulic motor pistons connected to said plungers, a plurality of plunger barrels housing said motor plungers, valve means for admitting and



discharging low pressure driving liquid to and from said barrels to cause said plungers to perform power strokes in predetermined timed relation, and mechanical means associated with each motor plunger adapted to return said motor plungers in predetermined timed phase succeeding each power stroke.

1,947,574
REFRIGERATION APPARATUS
Edward T. Williams, Pelham Manor, N. Y.
Application November 27, 1929
Serial No. 410,026
37 Claims. (Cl. 62—115)

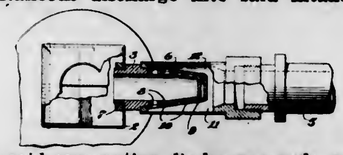


1. A refrigerating system comprising a compressor, a condenser, evaporation means, conduits connecting said compressor, condenser and evaporation means and automatic means for dividing said system into isolated sections operable upon the occurrence of abnormal change in pressure at any point in the system.

1,947,575
COMBINATION INFLOW CONTROLLING AND FLUID DISCHARGE MEANS
Marvin S. Young, Scarsdale, and Abraham Novick, Flushing, N. Y., assignors, by direct and mesne assignments, to Socony-Vacuum Corporation, a corporation of New York
Application August 27, 1928. Serial No. 302,342
14 Claims. (Cl. 226—93)

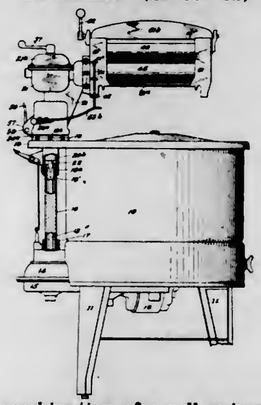
1. In combination, a liquid discharge nozzle, an intake spout, the discharge nozzle cooperating with the intake spout, both parts being provided

with a series of small apertures each pair of apertures being in simultaneous registration to allow simultaneous discharge into said intake spout



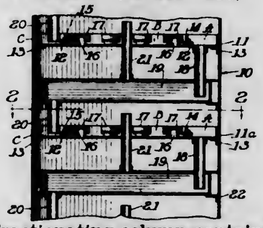
from said cooperating discharge nozzle, said discharge nozzle having a clamping mechanism whereby said nozzle and intake spout are forced into close communication.

1,947,576
CONTROL MEANS FOR WASHING MACHINE ROLL WRINGER MECHANISM
Alpheus W. Altorfer, Peoria, Ill.
Application September 14, 1932
Serial No. 633,097
10 Claims. (Cl. 68—32)



1. The combination of a roll wringing mechanism, including upper and lower wringer rolls, means for driving the rolls of said mechanism including a horizontal drive shaft, a clutch on said shaft, power means for operating the clutch to control the movement of the wringer rolls and a manually operated member for controlling the power operated clutch control means, said member being responsive to a comparatively slight pressure by the operator.

1,947,577
FRACTIONATION SYSTEM
William H. Bahlke, Hammond, Ind., and Ernest W. Thiele, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application May 21, 1931. Serial No. 538,912
4 Claims. (Cl. 261—114)



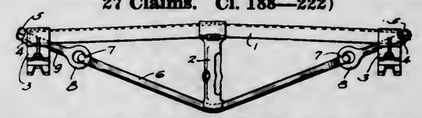
1. In a fractionating column containing a plurality of superimposed fractionating trays wherein ascending vapors are made to co-mingle with descending liquid and a froth is produced, a plurality of independent chambers, means for collecting said froth from each one of said trays and means for passing said froth to one of said chambers out of contact with the ascending vapors wherein said froth is allowed to separate into its component liquid and vapor, and means for separately discharging liquids and vapors from each of said chambers.

1,947,578
INHIBITING THE DECOMPOSITION OF ORGANIC COMPOUNDS
George R. Bond, Jr., Paulsboro, N. J., and Clark W. Davis, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 28, 1928
Serial No. 302,642
10 Claims. (Cl. 23—250)

1. A method of inhibiting the rapid discoloration of a liquid amino compound which comprises saturating the liquid with a non-oxidizing gas.

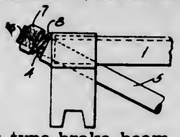
4. A relatively light-stable organic liquid comprising an aromatic amine from which the dissolved oxygen has been displaced by an inert gas.

1,947,579
BRAKE BEAM
Edwin G. Busse, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application April 15, 1931. Serial No. 530,402
27 Claims. Cl. 188—222)



1. In a truss type brake beam, a strut, a compression member, and a tension rod secured at its end to the end of the compression member and including jointed parts articulating transversely of the axis of the rod intermediate said strut and the end of said compression member.

1,947,580
BRAKE BEAM
John L. Mohun, Omaha, Nebr., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application May 15, 1931. Serial No. 537,520
10 Claims. (Cl. 188—222)

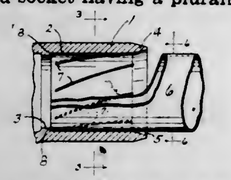


1. In a truss type brake beam, a compression member, a thrust block at the end thereof, a tension member, and elements on said thrust block and tension member providing interengagement between said thrust block and tension member, said elements including yielding means to accommodate weaving of the brake head relative to the tension member.

1,947,581
FITTING
Louis A. Cornelius, Grand Rapids, Mich., assignor to Wolverine Brass Works, Grand Rapids, Mich., a corporation of Michigan
Application September 3, 1932. Serial No. 631,618
2 Claims. (Cl. 285—115)

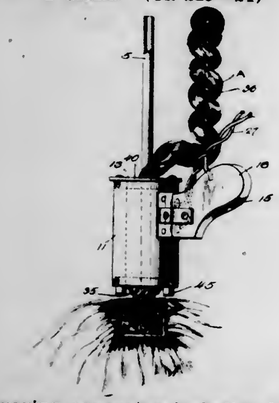
1. A joint connection comprising, a socket member and a member adapted to be telescop-

ically received into said socket member, the socket member being provided with a flared opening, which opening acts as a guide for the member to be telescoped into said socket and also as a receiving and distributing chamber for a sealing fluid, said socket having a plurality of inter-



nal grooves communicating with and extending lengthwise inwardly from the flared opening, whereby when the sealing fluid is introduced into said flared opening the sealing fluid will flow into the said grooves lengthwise of the connection and by capillary action spread in a film about the portions of the telescoped connection.

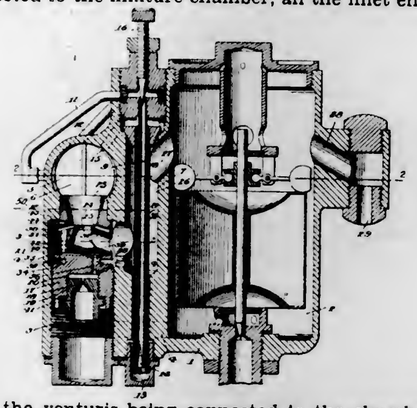
1,947,582
HAIR WAVING APPARATUS
David Re David, New York, N. Y.
Application August 25, 1931. Serial No. 559,336
1 Claim. (Cl. 219—24)



Hair waving apparatus including hollow substantially semi-annular elements each enclosing an electrical heating unit, an operating arm extending from each of said elements, a flexible connection between said arms, means extending between said arms and operative to urge said elements into engagement, a core extending between said element and on which strands of hair are wrapped, and means extending from one of said arms in substantially parallel relation with the core on which the free ends of the strands wrapped on the core may be coiled.

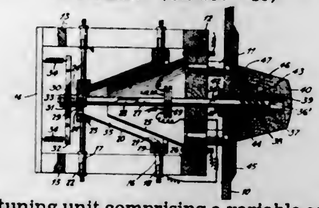
1,947,583
CARBURETOR
Georges Felix Brut, Tonneins, France
Application June 24, 1929, Serial No. 373,282, and in France June 30, 1928
12 Claims. (Cl. 261—121)

1. A carburetor comprising means forming a liquid fuel supply chamber, means forming a mixture chamber adapted to be connected to an engine intake, a chamber open to atmosphere, a plurality of venturis arranged in a substantially upright series and located below the liquid level in the liquid fuel supply chamber, a lateral intake in the restricted portion of each venturi, the diverging portion of each venturi being connected with the lateral intake of the one immediately above it, except the uppermost one which is connected to the mixture chamber, all the inlet ends



of the venturis being connected to the chamber open to atmosphere, and a conduit for connecting the lateral intake of the lowermost venturi with the liquid fuel supply chamber below the liquid level therein.

1,947,584
TUNING INSTRUMENT
Oscar C. Deutscher, Brooklyn, N. Y., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application March 3, 1931. Serial No. 519,766
11 Claims. (Cl. 250—40)

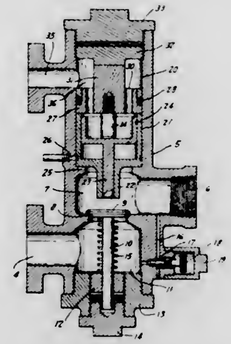


7. A tuning unit comprising a variable condenser having a manually operable electrode for tuning an electrical circuit, and an inductance coil in said circuit, said coil being mechanically associated with said manually operable electrode for movement therewith, and said condenser including a stationary electrode adapted to cooperate with said manually operable electrode, said coil being entirely surrounded by said stationary electrode.

1,947,585
FLUID PRESSURE REGULATOR
Harold W. Fletcher, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Texas
Application April 16, 1929. Serial No. 355,598
6 Claims. (Cl. 103—52)

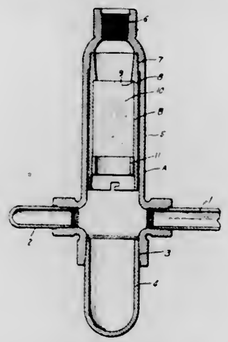
1. In a device of the character described, a fluid regulator including a housing, a passage for pressure fluid through said housing, a valve opening upstream in said passage and adapted to be held in closed position by excess fluid pressure from upstream in said passage, means tending to open said valve, a cylinder above said valve, a flow connection between said fluid pas-

sage and said cylinder, and a fluid pressure operated piston in said cylinder to close said valve,



operated by the pressure of fluid in said connection from the downstream side of said valve.

1,947,586
FLOW CHOKE
Harold W. Fletcher, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Texas
Application April 24, 1931. Serial No. 532,615
3 Claims. (Cl. 137—75)



1. A fitting for flow lines having a plurality of branches, a flow line connected with one of said branches, a threaded seat in the outer end of another of said branches, a holder secured in said seat, and porous material in said holder to limit the rate of flow of fluid therethrough and means below said porous material to catch sand settling by gravity from said fluid.

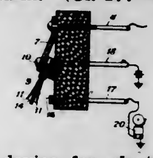
1,947,587
PLUNGER LIFT VALVE CLOSING DEVICE
Harold W. Fletcher, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Texas
Application February 4, 1933. Serial No. 655,202
4 Claims. (Cl. 103—52)

1. In a plunger lift device, an eduction tube, a plunger fitting therein and adapted to drop by gravity therein, a passage through said plunger, a valve seat in said passage, a valve normally open below said seat, and a sleeve adapted to be dropped in said tube to engage through said seat



and fit upon said valve to close the passage of fluid through said plunger.

1,947,588
FUSE AND MOUNTING THEREFOR
Lee L. Glezen, Millburn, and Samuel P. Shackleton, Wyoming, N. J., assignors to American Telephone and Telegraph Company, a corporation of New York
Application November 19, 1932
Serial No. 643,500
1 Claim. (Cl. 177—311)

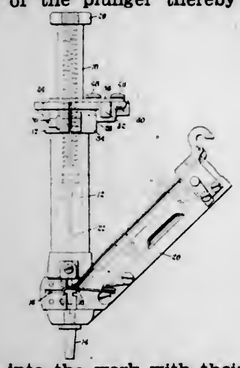


A protective device for electric transmission circuits including a panel, a pair of bus bars mounted thereon, one of which is connected to a power source, conductive lugs each connected to an individual circuit and overlying but spaced from said power bus bar, a series of fuses mounted between said power bus bar and said lugs, a pair of resilient members for each of said fuses, and a fusible link for normally holding the free ends of said resilient members in restrained position against the tension exerted thereby to complete connections from the power bus bar to said individual circuits, said free ends snapping outwardly from each other upon their release by the melting of said fusible link, when so operated, one of said members providing a visual signal and the other of said members closing a circuit from said power bus bar to the other bus bar.

1,947,589
FASTENING INSERTING MACHINE
George Goddu, deceased, late of Winchester, Mass., by Isabelle W. Goddu, executrix, Winchester, Mass., and Fred L. MacKenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 18, 1932. Serial No. 612,064
7 Claims. (Cl. 1—46)

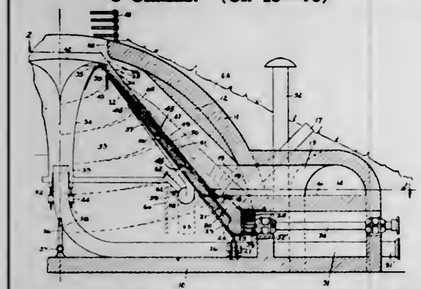
1. In a hand tacker, a sleeve, a plunger mounted within said sleeve and adapted to be moved within said sleeve a predetermined distance to insert fastenings flush with the surface of the work, a bracket clamped to said sleeve, and means pivotally secured to said bracket and em-

bracing said plunger to shorten the path of movement of the plunger thereby driving the



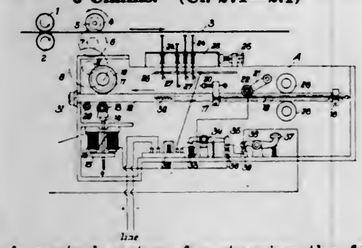
fastenings into the work with their heads projecting above the surface of the work.

1,947,590
GAS GENERATOR
Frank C. Greene, Milwaukee, Wis.
Application August 31, 1928. Serial No. 303,208
8 Claims. (Cl. 48—76)



2. In a gas generator, a structure substantially conical as to its inner surface, means for forming within said structure a substantially conical wall of incandescent fuel, an off-take conduit, and means including an evassé tube opening into said structure above the upper end of said wall for causing a draft of air to sweep downwardly over the surface of said wall and into said conduit.

1,947,591
AUTOMATICALLY ACTING, MARKING, AND CUTTING DEVICE FOR MACHINES FOR PRODUCING AND TREATING STRIP-SHAPED BODIES
Fritz Gühloff, Berlin-Reinickendorf, Germany
Application September 26, 1932, Serial No. 634,991, and in Germany October 30, 1931
6 Claims. (Cl. 271—2.4)



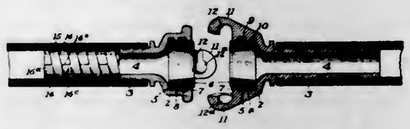
1. A control system for stopping the feeding means for machines for producing and treating tape and strip shaped materials, such as produced by veneer peeling machines, comprising means for feeding a strip of material through the machine, a metering member, a reducing gear adapted to move said metering member when the strip of material is fed through the machine and individually operable key like means each representing a specific length and adapted to be placed in the path of said metering member and to automatically stop the same after it has travelled over a previously determined distance, and thereby simultaneously automatically stop the operation of said feeding means.

1,947,592
COMBINATION GAUGE BOB AND THERMOMETER
John F. Haller, Kansas City, Kans.
Application April 14, 1930. Serial No. 444,057
3 Claims. (Cl. 33—126)



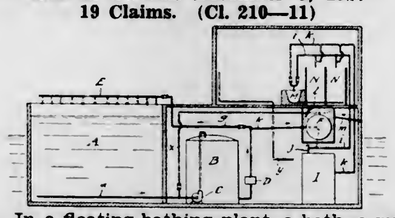
1. In a device of the character described, a hollow plumb bob provided with a side opening and a bottom pocket below and in communication with said opening, and a thermometer extending centrally within the plumb bob opposite said opening and downward into said pocket, said bob also having external depth gauge notches for containing material which will be cut by water but not by oil or gasoline from said notches, in combination with a measuring tape secured at its lower or outer end to the upper end of the plumb bob for effecting lowering and raising movement of the latter and for indicating tank content levels.

1,947,593
HOSE COUPLING
Peter J. Hamilton, Cleveland Heights, Ohio
Application April 14, 1931. Serial No. 530,009
4 Claims. (Cl. 285—80)



1. A hose connection having a tubular extension over which the hose is fitted, and two series of ratchet-like ribs on said extension, the ribs of one series being 180° out of phase with the ribs of the other series, said ribs being of gradually increasing height and terminating in an abrupt shoulder.

1,947,594
BATHING PLANT
Gustaf Olof Wolfgang Heijkenskjöld, Stockholm, Sweden
Application November 23, 1928, Serial No. 321,338, and in Sweden December 9, 1927
19 Claims. (Cl. 210—11)



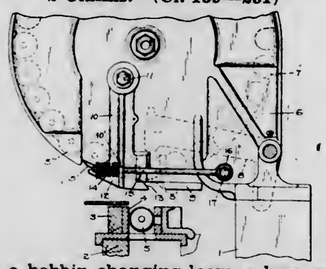
1. In a floating bathing plant, a bath, a water preheater located below the level of said bath and above that of the surrounding water, a source of water supply for said bath passing through said preheater, means for conducting the discharge water from said bath to said preheater and therefrom to the surrounding water, whereby the discharge water from said bath may flow by gravity through said preheater and out into the surrounding water.

5. In a floating bathing plant a floating structure divided into two compartments, the one containing a swimming pool of large dimensions, the level of the water therein being higher than the level of the water supporting the floating structure, the other compartment containing the machinery, a deck covering said compartment and shower-baths on said deck, arranged above the level of the surrounding water.

1,947,595
THERMOELECTRIC ELEMENT AND THERMOCOUPLE
Otto Hermann, St. Louis, Mo., assignor to Thermo Electric Company, St. Louis, Mo., a corporation of Missouri
No Drawing. Application November 21, 1932 Serial No. 643,737
4 Claims. (Cl. 136—5)

1. A negative thermoelectric element consisting of 61 to 64% antimony, 35 to 37% zinc, and 0.5 to 2% beryllium.

1,947,596
BOBBIN SUPPORTER FOR LOOMS
Altus Whitner Herring, Talladega, Ala., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application January 27, 1933. Serial No. 653,893
2 Claims. (Cl. 139—251)

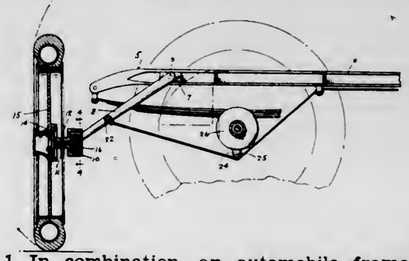


1. In a bobbin changing loom, a hopper stand, a rotary hopper carried by said hopper stand and adapted to contain a reserve supply of bobbins, a swinging bobbin support comprised of an arm pivotally suspended from said hopper and carrying a bobbin supporting head at its lower end, a rod having one end pivoted to said hopper stand and its other end passing through a bearing in said arm, a releasable retaining means on said other end of said rod, and a coiled spring positioned between said retaining means and said arm for urging the latter forwardly, said spring yielding to permit normal swinging movement of said bobbin support, and said retaining means releasing said spring upon abnormal movement of the bobbin support.

1,947,597
PROCESS FOR INCORPORATION OF METAL-COMPOUNDS INTO TEXTILES
Franz Hoelkeskamp, Wuppertal-Wichlinghausen, Germany, assignor to the firm American Bemberg Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 16, 1931, Serial No. 581,504, and in Germany December 31, 1930
8 Claims. (Cl. 8—13)

1. In a process for incorporating metal oxides in textiles, the steps of saturating the textile to be treated with a metallic oxide-ammonia compound in aqueous solution and then drying the textile at temperatures of about 70 to 80° C. to volatilize the ammonia while simultanecusly retaining said metal oxide in said textile.

1,947,598
AUTOMOBILE PARKING DEVICE
Maurice H. Hollingsworth, Miami Beach, Fla.
Application February 7, 1933. Serial No. 655,646
2 Claims. (Cl. 180—1)

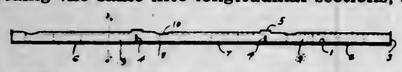


1. In combination, an automobile frame, a V-shaped frame having at its ends outwardly directed trunnions, bearings mounted on the automobile in which the trunnions are journalled, springs on the trunnions and engaged with the bearings to normally raise the apex portion of the frame upwardly, said apex portion of the frame being in the form of a gear casing, a shaft in the casing, gearing in the casing for operating the shaft, and means for detachably mounting a wheel on the shaft, a cross bar in the V-shaped frame, a cable attached to the cross bar, a reel on which the cable is windable, means for mounting the reel on the automobile frame, and means for rotating the reel.

1,947,599
CHASER CARRIER
Ralph E. Hyde, Cleveland, Ohio, assignor to The Oster Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 21, 1932. Serial No. 606,590
5 Claims. (Cl. 206—16)

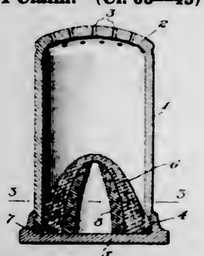
1. A tool holder adapted to fit into a pipe, said holder comprising an open sided tube, means for

dividing the same into longitudinal sections, and



an overlapping open-sided tube rotatable upon each section.

1,947,600
SALT SHAKER
Harry R. Isenhower, Bloomfield, Ind.
Application August 15, 1932. Serial No. 628,927
1 Claim. (Cl. 65—45)

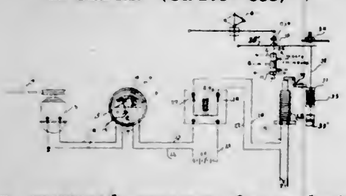


A salt shaker including a receptacle, a cover for the receptacle, a hollow body of absorbent cellulosic material, a flange formed on said body, a cork member positioned in the hollow of the cellulosic body, said flange being clamped between the end of the receptacle and the cover whereby both the cellulosic body and the cork member are fixedly secured in position.

1,947,601
PRODUCTION OF MIXED FERTILIZERS CONTAINING AMMONIUM NITRATE
Carl Krauch and Carl Eyer, Ludwigshafen-on-the-Rhine, and Gottwald Baetz, Oggersheim, and Friedrich Korn, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application March 9, 1931, Serial No. 521,254, and in Germany June 5, 1928
13 Claims. (Cl. 71—9)

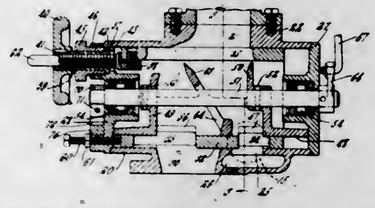
1. In the production of a solid mixed fertilizer containing ammonium nitrate by solidification of a melt of said mixed fertilizer, the step of adding to the melt up to 10 per cent by weight thereof of a salt selected from the group consisting of calcium nitrate, calcium chloride and monocalcium phosphate.

1,947,602
GOVERNOR
Samuel Logan Kerr, Philadelphia, Pa., assignor to I. P. Morris and De La Vergne, Inc., a corporation of Delaware
Application August 14, 1929. Serial No. 385,733
11 Claims. (Cl. 175—355)



1. An overspeed governor for a hydraulic prime mover comprising an electrical element constantly movably driven by the prime mover, means for controlling said prime mover when a predetermined speed thereof is reached including an electrical circuit connected with said electrical element, and releasable means controlled by said circuit and adapted when initiated to operate to its full extent and remain operative to that extent independently of further variations in the prime mover speed.

1,947,603
GAS MIXING DEVICE
Elwood T. Larkin, Eggertsville, N. Y., assignor to Charles A. Criqui, Buffalo, N. Y.
Application April 14, 1932. Serial No. 605,219
11 Claims. (Cl. 48—180)



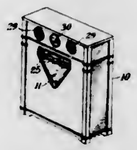
1. A gas mixing valve, including a housing having gas inlet openings formed therein, a member movable relatively to said housing and having parts adapted to cooperate with said openings to decrease one of said openings while increasing the other opening, and a valve member movable to different positions with reference to said openings to simultaneously restrict both of said openings to approximately the same extent.

1,947,604
MANICURE CHEST
Florence N. Lewis, New York, N. Y.
Application December 3, 1932, Serial No. 645,627, and in France September 20, 1932
1 Claim. (Cl. 132—79)



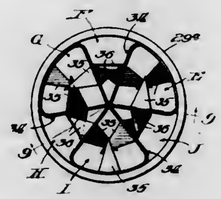
A manicure kit or the like, comprising a box body consisting of a flat bottom, side walls and an end wall, all formed of stiff material and rigidly connected to one another, the other end wall of the box being flat and of relatively stiff material and being hingedly connected at one end to the bottom of the body, a cover for the body consisting of a flat piece of stiff material hingedly connected at one end to the hinged end wall of the body and adapted when in closed position to abut against the upper edges of the side and end walls of the body, a closing flap hingedly connected to one end of the cover, means for fastening said flap to the rigid end wall of the body, and cellular supports secured to the body, hinged end wall and cover, and adapted to come into compact relationship when the box is in closed position, one of said cellular supports consisting of a rectangular supplemental box having its bottom fixedly secured to the hinged end wall of the body and positioned substantially at one side of a line drawn medially transversely of said hinged end wall to accommodate the cellular support of the cover when the kit is closed.

1,947,605
DEMONSTRATION APPARATUS
Robert J. Linney, Lyon Mountain, N. Y.
Application December 30, 1932. Serial No. 649,472
9 Claims. (Cl. 35—16)



1. In a device of the character described for demonstrating the sand flotation process of cleaning coal, a transparent tank containing translucent liquid, coal particles and rock particles, said liquid being of higher specific gravity than the coal particles but of lower specific gravity than the rock particles, means for circulating said liquid and particles through said tank, said means comprising an inlet and an outlet in the upper portion of the tank, an outlet from the lower portion of the tank, a pump, and connections from said outlets and said inlet to said pump.

1,947,606
WATER HEATER FLUE
Simon J. Lonergan, La Porte, Ind., assignor to Bastian-Morley Company, La Porte, Ind., a corporation of Indiana
Application October 17, 1929. Serial No. 400,201
19 Claims. (Cl. 122—17)



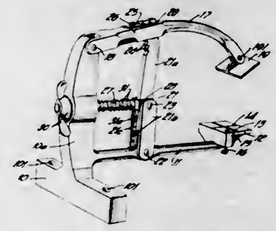
1. In water heater structure, a storage tank having provision for a combustion chamber therebeneath, an open-ended flue member passing through said tank and the liquid therein for carrying hot gases of combustion from said combustion chamber and providing a water heating surface, and means for increasing the heating surface of said flue which comprises a plurality of tubular members mounted in said flue in heat transfer contact with said flue member, said tubular members being of such shape as to provide through said flue member a plurality of independent flue ways greater in number than said tubular members, and means carried by said tubular members and projecting into all said flue ways for imparting turbulent motion to the gases and also serving for heat transfer.

3. In a water heater structure, a storage tank having provision for a combustion chamber therebeneath, an open-ended flue member passing through said tank and the liquid therein for carrying hot gases of combustion from said combustion chamber and providing a water heating surface, and means for increasing the heating surface of said flue which comprises a plurality of tubular members mounted in said flue, said tubular members having the cross-sectional shape of a sector of a cylinder and being of a size less than one-half and more than one-quarter of the cross-sectional area of said flue member, thereby providing through said flue member a plurality of independent flue-ways greater in number than said tubular members.

5. In water heater structure, a storage tank having provision for a combustion chamber therebeneath, an open-ended flue member passing through said tank and the liquid therein for carrying hot gases of combustion from said combustion chamber and providing a water heating surface, and means for increasing the heating surface of said flue which comprises a plurality of tubular members mounted in said flue, said tubular members being triangularly-shaped in cross-section with their apices abutting in said flue member and their base portions abutting the wall of said flue thereby providing a plurality of independent flue ways, and a metal bond between said tubular member bases and said flue member wall integrally joining said members for a direct unbroken conduction of heat from said tubular members through the wall of said flue member to the water in said tank.

16. A flue structure comprising a chamber to contain fluid to be heated, a tubular heat absorbing and radiating wall extending through said chamber in heat exchange relation with the fluid and adapted to form a flow path for hot gases, heat absorbing means positioned in the bore of said wall for dividing the flow path into a plurality of independent sub flow paths, means carried by the aforesaid means for preventing stratification of all of the gases passing through the sub flow paths, and means for providing an uninterrupted heat path possessing high heat conducting characteristics between said heat absorbing means and said tubular wall.

1,947,607
CLAMPING DEVICE
Richard Marogg, Troy, N. Y.
Application August 13, 1932. Serial No. 628,767
9 Claims. (Cl. 144—289)

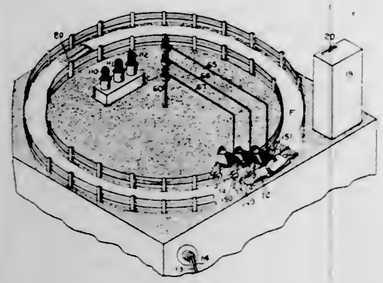


1. In a clamping device, a fixed jaw, a movable jaw, a toggle for applying pressure to said movable jaw, associated means cooperating with said movable jaw for normally preventing movement but releasable to permit free movement thereof away from the other, and screw means for applying pressure to said toggle and thereby applying clamping pressure to said movable jaw.

1,947,608
AMUSEMENT DEVICE
Louis B. May, Pittsburgh, Pa., assignor to Sidney Frankel, Pittsburgh, Pa.
Application March 12, 1930. Serial No. 435,180
16 Claims. (Cl. 273—86)

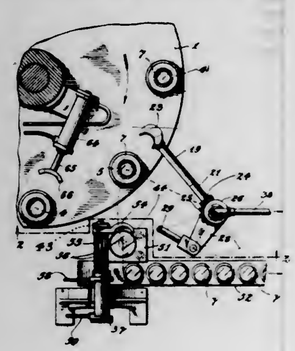
2. In a game apparatus, an object supported for movement in an orbit, frictional driving

means for moving the object in its orbit, means movable to a position for engagement by the



object, and coin-controlled actuating mechanism for said engagement means.

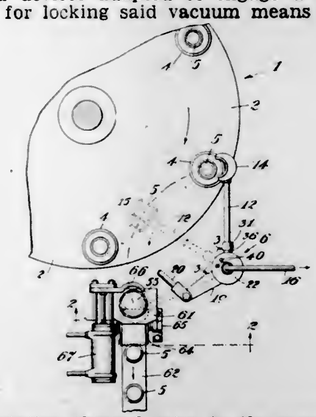
1,947,609
VESSEL TRANSFERRING MECHANISM
William L. McNamara, Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a corporation of Delaware
Application February 21, 1928. Serial No. 255,877
15 Claims. (Cl. 214—1)



1. In a device for handling articles such as glass containers delivered consecutively by a glass fabricating machine, the combination of a movable support, a transfer arm having a suction head for engaging a container, inverting it and placing it upon said support, means for moving automatically said support vertically after each vessel is deposited thereon, and means for removing the vessel from said support in its second position.

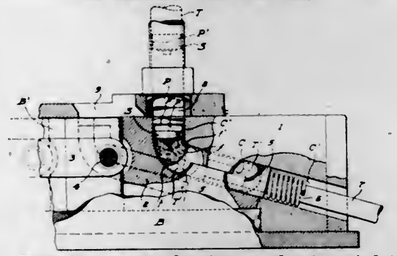
1,947,610
TRANSFERRING DEVICE
William L. McNamara, Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a corporation of Delaware
Application June 4, 1930. Serial No. 459,182
19 Claims. (Cl. 214—1)

1. In a device of the class described, the combination of vacuum holding means for engaging and supporting a container, devices for moving said means to transfer the container, from one position to another, and an extending member on said devices adapted to engage a suitable groove for locking said vacuum means to pre-



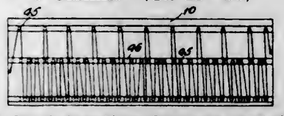
vent rotation thereof prior to the engagement of a container by said means.

1,947,611
FORMING MEANS
Joseph Miotke, Milwaukee, Wis.
Application April 29, 1932. Serial No. 608,221
11 Claims. (Cl. 113—44)



1. Forming means having, a sheet metal tube forming assembly embodying a reciprocative die-cavity-completing block abutting a fixed die-block to form a piston bore, a piston element resiliently reciprocative in said bore for resisting distortion of a tubular object fashioned under an endwise pressure that is opposed by said piston, said piston functioning as a tube ejector when the aforesaid assembly is opened.

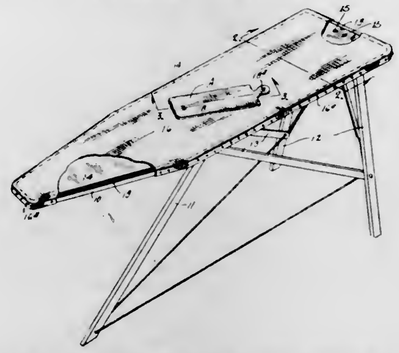
1,947,612
ELECTRIC FURNACE
William E. Moore, Pittsburgh, Pa., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa.
Original application October 24, 1931, Serial No. 570,957. Divided and this application May 10, 1932. Serial No. 610,441
9 Claims. (Cl. 13—20)



1. In a heat treating furnace, resistance element supports arranged in three spaced substantially horizonal rows about the walls of said furnace, and a resistance element looped about said supports, and extending from the bottom row of supports to the intermediate and top rows of

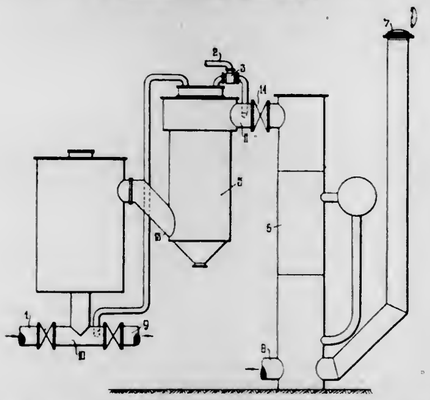
supports, some of the resistance loops terminating at the intermediate row of supports, whereby a greater part of the heating surface of said resistance element is arranged below the horizontal center of the charge of said furnace.

1,947,613
IRONING BOARD
Harry R. Northup, Des Moines, Iowa
Application February 20, 1933. Serial No. 657,630
2 Claims. (Cl. 68—10)



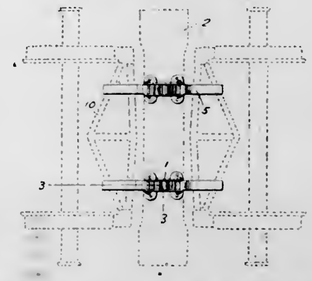
1. In a structure of the class described, the combination of a supporting element with a thin metal reflecting sheet secured on the supporting element at a limited area only, so that it is free to expand and contract without buckling, and a pad arranged over the sheet and secured to the supporting element.

1,947,614
MANUFACTURE OF WATER GAS
Niels Edward Rambush, Stockton-on-Tees, England, assignor of one-half to The Power Gas Corporation Limited, Stockton-on-Tees, England, a British company
Application March 31, 1930, Serial No. 440,398, and in Great Britain April 23, 1929
1 Claim. (Cl. 48—204)



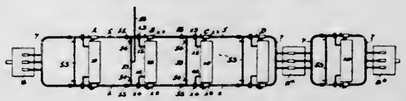
In a process of manufacturing water gas, passing primary air through a coke bed, leading off the air blow gases thus produced, burning same in contact with preheater elements by means of secondary air, while avoiding the direct impingement of said blow gases on said elements, at the same time passing steam through said elements, cutting off said primary and secondary air, leading steam through said elements to super-heat same, and up through said coke bed, cutting off said steam, and leading steam around said preheater elements to superheat same and down through said coke bed.

1,947,615
SAFETY DEVICE FOR BRAKE BEAMS OF RAILWAY CARS
Webster Cleveland Reed, Little Rock, Ark.
Application September 22, 1932
Serial No. 634,397
2 Claims. (Cl. 188—210)



2. A safety device for the brake beams of a railroad truck comprising a channel shaped member supported by a part of the truck, an upwardly and inwardly extending flange located in the channel shaped member, a safety bar having a hook at its inner end for fitting over the flange and a pin passing through an end portion of the channel member and over a part of the safety bar to hold said bar in the channel member.

1,947,616
PIPE LINE
Arthur H. Riney and Lloyd T. Gibbs, Bartlesville, Okla., assignors to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware
Application February 29, 1932. Serial No. 595,906
9 Claims. (Cl. 137—78)

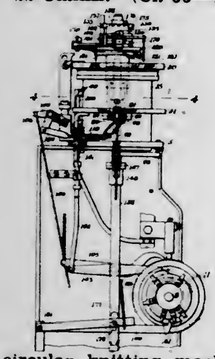


1. A piping system comprising branch pipes for conducting fluids from a point of supply to a point of delivery, a plurality of valves in said pipes at different points in the length thereof dividing said pipes into a plurality of sections, pressure responsive means connected with each pipe section and with the valves therein for operating the latter, and a pipe connecting the branch pipes in each section and establishing communication between said sections, the connecting pipe being adapted, when an abnormal condition of fluid flow exists in one section of one branch pipe, to conduct fluid from the other branch pipe to the first mentioned pipe at the downstream side of the affected section, and fluid control means located at each section at the upstream side of said connecting pipe preventing the flow of fluid from said connecting pipe into said affected section.

1,947,617
RECIPROCATIVELY OPERATED KNITTING MACHINE

Frank W. Robinson, Reading, Pa., assignor to Schuylkill Hosiery Mills, Reading, Pa., a corporation of Pennsylvania

Application June 19, 1928. Serial No. 286,616
22 Claims. (Cl. 66—43)

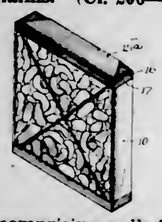


1. In a circular knitting machine having a reciprocatively operated needle cylinder, a thread-feed mechanism comprising a finger-supporting table and a finger-actuating cam drum both co-axial with said cylinder and limitedly movable therewith, a plurality of thread-guide fingers mounted on said table in operative relation to said cam drum, and means for varying the relative positions of said table and cam drum to selectively actuate said fingers.

1,947,618
PACKAGE WRAPPER AND PACKAGE FORMED THEREWITH

Lester M. Sawin, Chicago, Ill.

Application December 11, 1929
Serial No. 413,184
2 Claims. (Cl. 206—44)



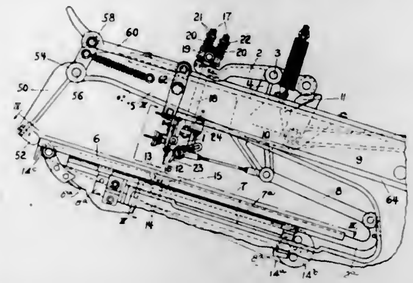
1. A package comprising walls forming an open faced box, and a transparent cellulose sheet wrapped about said box to close the open side thereof, said sheet having coloring matter thereon forming a border on the sheet along two parallel edges of the open side of the box, said border being of sufficient width to conceal the space which may be formed by compaction of the contents of the box.

1,947,619
STAKING MACHINE

Gustav Adolf Schettler, Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Maine, a corporation of Maine

Application September 10, 1930, Serial No. 480,898, and in Great Britain September 19, 1929
29 Claims. (Cl. 149—17)

1. In a machine for operating upon hides, skins, leather and other similar pieces of work, a plurality of tools mounted for relative movement with respect to each other, a member for supporting portions of a piece of work against the thrust of said tools, means to cause relative movement between the piece of work and the tools in the

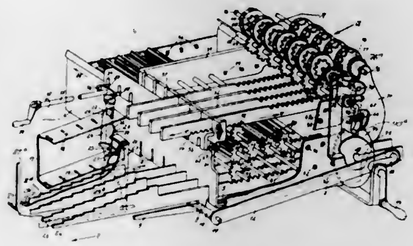


direction of a linear dimension of the work while the tools are pressing the work against said member, and means to cause one of the tools to increase its pressure on the work at a predetermined distance from an edge portion thereof.

1,947,620
CALCULATING MACHINE

Carl Schlüns, Berlin-Steglitz, Germany, assignor, by mesne assignments, to Mercedes Büro-Maschinen-Werke Aktiengesellschaft, Zella-Mehlis, Thuringia, Germany, a joint-stock company of Germany

Application January 11, 1927, Serial No. 160,456, and in Germany January 13, 1926
8 Claims. (Cl. 235—63)



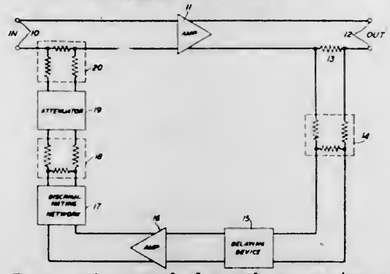
1. A calculating machine as described in claim 6 in which said shiftable connections comprise pinion rods to which the result mechanism operating members are geared and with respect to which they are longitudinally shiftable.

6. In a calculating machine, a multi-order setting mechanism; a result mechanism comprising counting members; said setting and result mechanisms being relatively fixed in respect to the relative positions of their orders; independent transmission mechanisms for each order of said setting mechanism, including result mechanism operating members shiftable as a unit to different groups of adjacent counting members of said result mechanism, and shiftable connections for maintaining said transmission mechanisms in operative relation to said setting mechanism for all positions of said result mechanism operating members; and driving means for actuating said transmission mechanisms differentially in unison under control of said setting mechanism.

1,947,621
REVERBERATION CIRCUIT

Ernst H. Schreiber, Los Angeles, Calif., assignor to American Telephone and Telegraph Company, a corporation of New York

Application June 14, 1932. Serial No. 617,201
2 Claims. (Cl. 179—1)

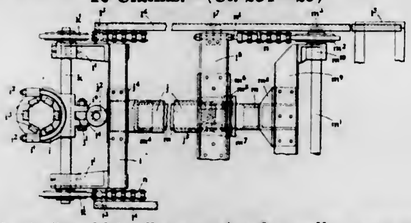


1. In a main sound channel, apparatus comprising a loop circuit for introducing reverberation effects into the main sound channel, and variable and controllable means in the loop circuit for shaping the frequency response characteristic of the loop circuit to simulate the selective frequency absorption of the walls of the room.

1,947,622
SNUBBING APPARATUS FOR OIL WELLS

Lewis Mervyn Cecil Seamark, Chagford, England

Application November 27, 1931, Serial No. 577,575, and in Great Britain February 5, 1931
10 Claims. (Cl. 254—29)

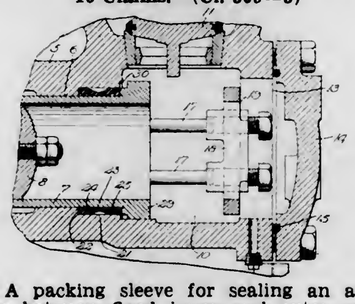


1. In "snubbing" apparatus for wells, means for operation comprising a pressure cylinder and ram device, a frame by which the cylinder and ram device is adapted to be supported lengthwise on the ground, and means at one end of the frame for anchoring the frame to the well head.

1,947,623
LINER PACKING SLEEVE

John M. Shimer, Wilkinsburg, Pa., assignor to Wilson-Snyder Manufacturing Corporation, Braddock, Pa., a corporation of Pennsylvania

Application December 8, 1931. Serial No. 579,686
10 Claims. (Cl. 309—3)

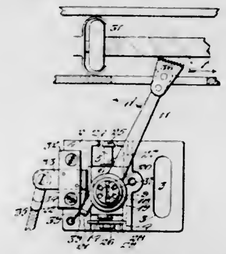


1. A packing sleeve for sealing an annular space between fixed inner and outer surfaces which comprises annular end portions and a deformable annular intermediate portion of greater length and less thickness than said end portions and extending from one end portion to the other, the diameter of the inner and outer surfaces of said intermediate portion varying between said end portions slightly to deform inwardly and outwardly under axial compression.

1,947,624
FILLING FEELER FOR LOOMS

Edwin C. Smith, Providence, R. I., assignor to Rhode Island Warp Stop Equipment Company, Portland, Maine, a corporation of Maine

Application July 16, 1931. Serial No. 551,172
8 Claims. (Cl. 139—286)

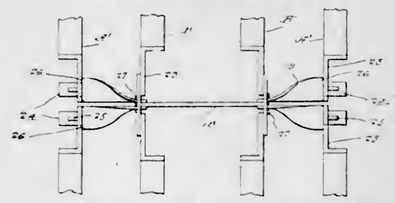


1. In a side slip feeler-device for looms, the combination of a side slip finger, a slide having a stop, a case within which said slide moves and from which said finger projects, a spring within the case for moving the slide to project said finger as aforesaid, a stud secured to the slide on which the finger swings, which stud has a flange spaced from the slide and a body portion above said flange, the finger being mounted between the slide and the flange, a helical spring mounted on said body portion of the stud and engaging said finger, a substantially disk-shaped spring adjuster surmounting the stud and engaging the spring to force the finger against the stop on the slide, and means to secure said spring adjuster to said stud.

1,947,625
COLLAPSIBLE FORM FOR CONCRETE CONSTRUCTIONS

Roy D. Smith, Lyons, Kans.

Application September 21, 1932
Serial No. 634,237
4 Claims. (Cl. 25—131)

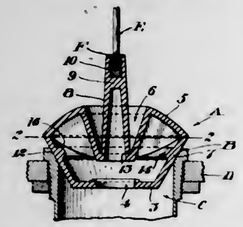


1. A collapsible form comprising a pair of form members, a supporting member placed between the form members, spreader members pivotally connected to the supporting member, means for movably connecting the spreader members to the form members and a movable member having cam parts thereon for engaging the spreader members for moving said spreader members toward and away from each other to move the form members toward and away from each other.

1,947,626
PREPARED RESIN
Charles A. Thomas, Dayton, Ohio, assignor, by mesne assignments, to Dayton Synthetic Chemicals, Inc., Dayton, Ohio, a corporation of Ohio
No Drawing. Application September 15, 1930
Serial No. 482,157
6 Claims. (Cl. 260—2)

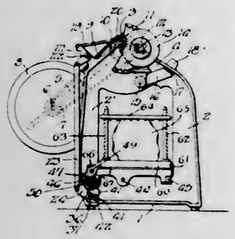
1. The substantially neutral resinous reaction product of a diolefine with an alkyl benzene in the presence of aluminum chloride, the resinous product being substantially free from halides and metallic compounds.

1,947,627
TOILET VALVE
Herbert N. Wayne, Santa Monica, Calif.
Application September 21, 1931
Serial No. 563,990
7 Claims. (Cl. 4—56)



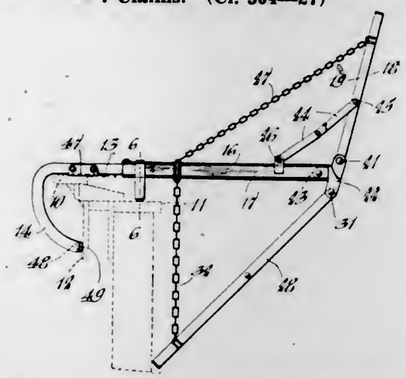
1. In a valve, a valve body having a circumferential seating surface between its upper and lower sides and a depression in its upper side, said depression having its bottom disposed on a plane below the line of contact of said seating surface with its seat, and a flexible stem joined to the body at the bottom of said depression and extending upwardly therefrom.

1,947,628
SLICING MACHINE
Wilhelmus Adrianus van Berkel, Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application January 18, 1930, Serial No. 421,623, and in Germany February 5, 1929
15 Claims. (Cl. 146—103)



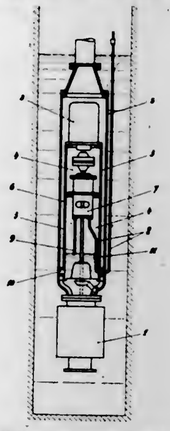
1. In a slicing machine, the combination with a slicing knife, of a substance supporting carriage adjacent the cutting plane of said knife, and a feed screw on said carriage, separable interconnecting means between said screw and an actuating means supported independently of said carriage, said carriage being movable relative to said independently supported means to automatically connect and disconnect said separable interconnecting means.

1,947,629
WINDOW SCAFFOLD
Julius Victor, Detroit, Mich.
Application May 26, 1932. Serial No. 613,652
7 Claims. (Cl. 304—27)



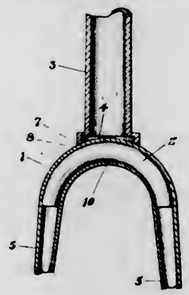
1. A window scaffold of the character described comprising supporting rails provided at their inner ends with hook-like elements adapted to overlie the window-sill and to abut at their free ends against the interior of the building wall below the sill, and a sheet metal platform disposed between said rails and having tranverse corrugations therein terminating short of the marginal longitudinal edges thereof, said platform having tubular guides at its opposite longitudinal edges slidably engaging the supporting rails.

1,947,630
SUBMERSIBLE PUMP
Karl Wernert, Mulheim-on-the-Ruhr, Germany
Application February 26, 1931, Serial No. 518,413, and in Germany November 28, 1930
3 Claims. (Cl. 103—87)



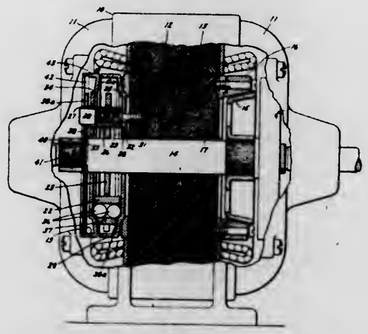
1. A submersible pump with a driving engine immersed in water, in which the raised liquid prevents escape of the gas serving as protective layer for the engine and being enclosed in a diving bell located between the pump and the driving engine, comprising, in combination with the pump aggregate, a compressor adapted to be driven directly by the driving engine to refill the diving bell with gas, the operation of the said compressor being started and stopped automatically and without the use of separate auxiliary means by the rise and fall of the liquid in the diving bell.

1,947,631
FORK FOR WHEELED VEHICLES
Arthur D. Whidden, Elyria, Ohio
Application October 11, 1932. Serial No. 637,235
2 Claims. (Cl. 208—96)



1. In a vehicle wheel support of the class described, a tubular fork of oval section at the crown, sides of oval section tapering from the said crown portion to smaller sections at the ends thereof, a reinforcing member centrally disposed within the said central portion of the said fork crown, and a stem on center line of fork, the said fork crown the said reinforcing member and the said stem welded together to form a rigid construction of the central crown portion of the said fork.

1,947,632
CENTRIFUGALLY ACTUATED CLUTCH
Henry S. Woodruff, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 18, 1933. Serial No. 661,516
13 Claims. (Cl. 192—105)



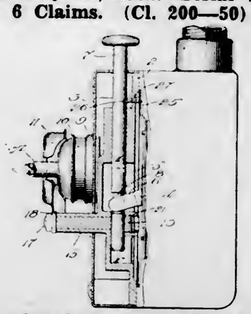
1. A centrifugally actuated mechanism including an axially movable plate, means for resisting axial movement of said plate, means including an outwardly movable weight rotatable with said plate for moving said plate axially against said resisting means, said last mentioned means including a pair of interengaging balls carried by said weight and engaging said plate, and means including a shoulder on said plate for preventing outward movement of said weight until said driving member has attained a predetermined speed.

1,947,633
RAZOR BLADE AND HOLDER
William G. Adams, Richmond, Va.
Application April 13, 1931. Serial No. 529,815
17 Claims. (Cl. 30—12)



16. A thin flexible razor blade adapted to be flexed between razor parts when in shaving position, said blade being formed with a pair of outstanding spaced lugs, the distance between the ends of said lugs, or the angle lying between them, tending to change as the curvature of the blade changes during flexing of the blade between razor parts, said lugs being adapted to cooperate with the razor parts for effecting relative positioning of the blade with respect to the razor parts.

1,947,634
SWITCH BOX WITH PLUG-IN CABLE CONNECTION
Ernst G. K. Anderson, Evanston, Ill., assignor to Appleton Electric Company, a corporation of Illinois
Application May 27, 1932. Serial No. 613,821
6 Claims. (Cl. 200—50)



6. The combination with a switch box containing a switch and having a socket to receive a plug on a cable or the like, of actuating means for the switch including a reciprocable part, a shaft rotatably mounted on the box beside the socket and extending parallel with the axis of the socket and at right angles to the path of travel of said reciprocable part, said shaft and said reciprocable part having cooperable engaging faces to cause said shaft to be turned into one angular position when the switch is closed, means on said shaft in position to be swung over said socket when the shaft is brought into its first angular position and to be carried clear of the socket when the shaft is in its second angular position, and a spring tending constantly to move said shaft into its second angular position.

1,947,635
PROCESS OF MANUFACTURING AN ACID TOOTHPASTE
Einar Bergve, Oslo, Norway
No Drawing. Application February 25, 1930, Serial No. 431,347, and in Austria February 27, 1929
10 Claims. (Cl. 167—93)

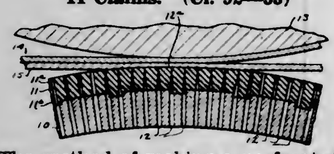
1. Process of manufacturing an acid tooth paste, consisting in preparing a paste mass con-

taining silica-water-glycerine-gel and an acid constituent, adding thereto substances rendering the colloids liquid at an increased grinding temperature without preventing the mass from coagulating again upon cooling, the mixture so prepared being peptizated by subjecting it to a colloid-grinding at an increased temperature not higher than 70° C.

1,947,636
PAPER MAKING MACHINERY

Earl E. Berry, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin

Application November 25, 1932
Serial No. 644,152
11 Claims. (Cl. 92—53)

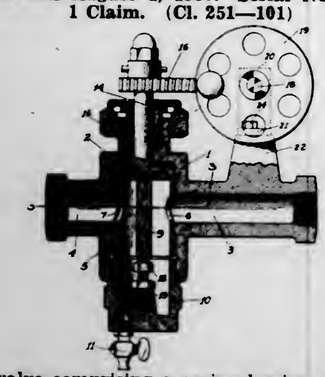


1. The method of making a perforated rubber surfaced roll comprising perforating a metal shell in a multiple spindle drilling machine, removing the perforated shell from the machine, attaching a covering of rubber on the perforated shell, replacing and relocating the rubber covered shell in the multiple spindle drilling machine, and drilling the rubber covering in correspondence with the hole locations in the shell by effecting the same indexing operations as required in the drilling of the shell.

1,947,637
CONTROL VALVE

Albert W. Bolster, Placerville, Calif., assignor of two-thirds to Mrs. M. J. Taylor, Placerville, Calif.

Application August 4, 1930. Serial No. 473,025
1 Claim. (Cl. 251—101)

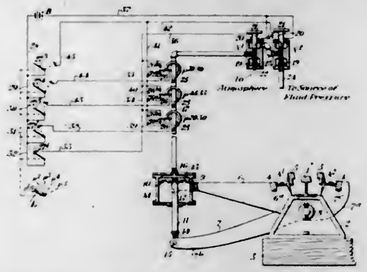


A valve comprising a casing having a vertical bore open at the lower end and closed at its upper end such bore being of the same diameter for its full length, the casing having an inlet and outlet passage connected with such bore, a cylindrical plug of the same diameter from end to end and freely turnable in the bore, the plug having openings adapted to register with the inlet and outlet passages of the bore, a division plate within the plug extending to a point adjacent its lower end whereby liquid entering the plug from the inlet must pass around the plate to reach the outlet, a removable sump cap mounted on the casing below the plug, antifriction means carried by the cap and engaging the division plate to support the plug in the bore.

1,947,638
RAILWAY BRAKING APPARATUS

Herbert L. Bone, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application October 25, 1932. Serial No. 639,433
11 Claims. (Cl. 303—20)

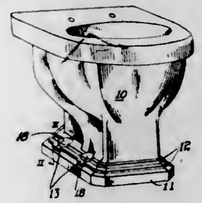


1. Railway braking apparatus comprising a braking bar located in the trackway beside a track rail, a fluid pressure motor for moving said braking bar toward the track rail into a braking position in which it will engage a part of a car to retard the speed of the car, a first contact which becomes opened when the pressure of the fluid in said motor increases to a predetermined value, means effective when said first contact is closed for normally supplying fluid pressure to said motor, a second contact which becomes closed when the pressure of the fluid in said motor increases to a pressure which is somewhat higher than the pressure at which said first contact opens, means effective when said second contact is closed for exhausting fluid from said motor, and means effective under certain conditions if both of said contacts became simultaneously closed due to a short circuit for preventing fluid from being supplied to said motor or exhausted to atmosphere.

1,947,639
BOLT CAP

George Brain, Tiffin, Ohio, assignor to Standard Sanitary Manufacturing Company, a corporation of New Jersey

Application April 21, 1932. Serial No. 606,561
3 Claims. (Cl. 4—252)

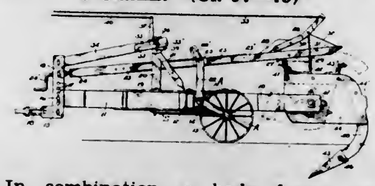


1. In combination with a water closet or the like, having a flanged stepped base provided with a series of outwardly flared openings therein, of a cap for covering each of said openings having an inwardly sloping rear wall adapted to seat against the rear wall of the opening, a curved lug depending from said cap and adapted to seat against the front of the opening, and a lip projecting beyond the front of said opening, the top of said cap being flush with the top of the step of said base and the lip thereof forming a continuation of said step.

1,947,640
EARTH WORKING IMPLEMENT

Max M. Brodersen, Alhambra, Calif., assignor to George A. Lathrop, Los Angeles, Calif.

Application June 20, 1932. Serial No. 618,263
6 Claims. (Cl. 97—75)

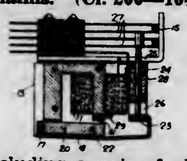


1. In combination, a body frame, carrier wheels, means pivotally supporting said body frame on said wheels to be moved relative thereto, spring means yieldingly connecting said frame with said carrier wheels, an earth working implement in said frame, supported to be rocked, a draft mechanism at the opposite end of said frame and including a pivoted coupling member for power and a longitudinal thrust member, operating connections between said thrust member and said frame supporting means, operating connections between said thrust member and said implement, whereby the longitudinal movement of said thrust member moves said frame relative to said wheels and said implement relative to said frame, and means whereby pull on said draft mechanism and said frame exerts rearward thrust on said thrust member.

1,947,641
RELAY

William C. Broekhuysen, New Haven, Conn., assignor to The Engineering and Research Corporation, a corporation of Connecticut

Application June 18, 1931. Serial No. 545,216
8 Claims. (Cl. 200—104)



1. A relay including a pair of plates, a laminated structure disposed between the same, a winding associated with said structure and providing in conjunction therewith an electromagnet, said plates being extended beyond said structure, an actuating arm pivotally supported by the extended portions of said plates, an armature connected to said arm and cooperating with said electromagnet, a bracket mounted by said plates and beyond said electromagnet, a hook-shaped portion forming a part of said arm and extending into said bracket to provide a stop structure, and a switch member connected to said arm to be operated thereby.

1,947,642
SPOOL

Rudolf Etzkorn, Oberbruch, near Heinsberg, Germany, assignor to American Glanzstoff Corporation, New York, N. Y., a corporation of Delaware

Application February 28, 1933. Serial No. 658,889, and in Germany March 5, 1932
2 Claims. (Cl. 242—118)

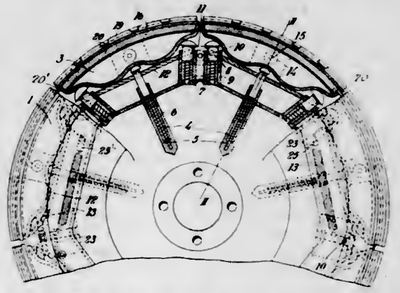
2. A metallic spool adapted to be employed for winding a plurality of yarn bodies, comprising, in combination, a plurality of cylindrical portions integrally joined to each other, the junctions being provided with outstanding ribs, said ribs extending circumferentially around the spool and being provided with ring-like re-inforcements gripped between sides of the said ribs.



1,947,643
RESILIENT WHEEL FOR MOTOR VEHICLES OF ALL KINDS

Leopold Eisele, Saarbrucken, Germany

Application September 21, 1931, Serial No. 564,107, and in Germany October 13, 1930
2 Claims. (Cl. 152—30)

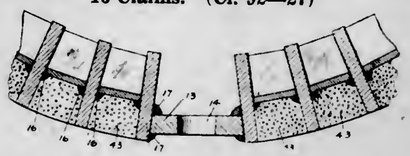


1. A resilient wheel for motor vehicles of all kinds, comprising in combination with the wheel body, having a main rim, an auxiliary rim bolted on said main rim, a plurality of independent shiftable case elements mounted between said main rim and said auxiliary rim, a central bolt and two end bolts resiliently mounted in said main rim adapted to support each of said cases, a transverse bolt projecting from each side of each of said cases, ball bearings one on each end of each of said case bolts adapted to radially guide said cases between said main rim and auxiliary rim and to allow said cases to oscillate, pulleys between said main rim and said auxiliary rim distributed around the circumference of the wheel, and wire ropes arranged over said pulleys engaging in the underside of said cases adapted to coact with said resiliently mounted bolts to support and cushion said cases.

1,947,644
SHELL LINING FOR JORDAN ENGINES

Frank M. Gloyd, Dayton, Ohio, assignor to Simonds Worden White Company, Dayton, Ohio, a corporation of Ohio

Application June 17, 1931. Serial No. 544,952
16 Claims. (Cl. 92—27)

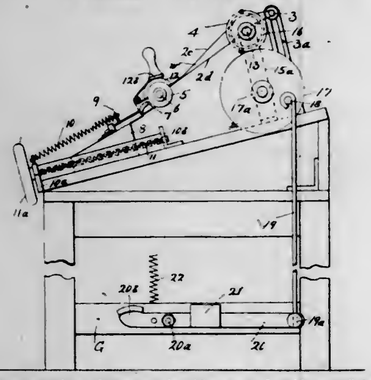


1. A shell lining for a Jordan engine, comprising a series of radially disposed metal knives separated by metal strips whose edges abut and are welded to the sides of the knives intermediate their edges.

1,947,645
APPARATUS FOR USE IN THE PRODUCTION OF HARNESS CORDS FOR JACQUARD MACHINES

John Thomas Hardaker, Bradford, England

Application November 4, 1931, Serial No. 572,933, and in Great Britain November 24, 1930
3 Claims. (Cl. 139—31)

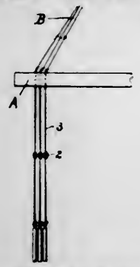


1. Apparatus for use in the production of harness cords for jacquard machines, comprising a retaining bar or member over which the looped cords are made to take, supports for said member, a roller over which the extending ends of the cords are made to take, a gripping member formed to span the cords on the roller, a hand-actuated lever for operating and retaining the gripping member, supports for said gripping member and lever, a grooved member for receiving the series of stretched cords, means for operating said grooved member to move one series of cords apart from the other to permit the binding cords to be inserted crosswise the harness cords.

1,947,646
FORMATION AND ARRANGEMENT OF THE HARNESS CORDS FOR JACQUARD MACHINES

John Thomas Hardaker, Bradford, England

Application November 4, 1931. Serial No. 572,934
1 Claim. (Cl. 139—85)

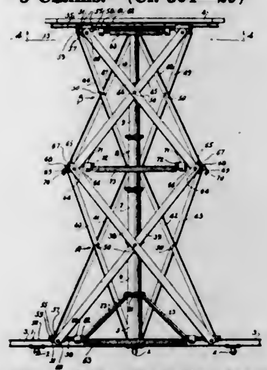


In a jacquard machine which includes a cumberboard having cord orifices, and mails below the cumberboard; sets of harness cords connecting the mails with the jacquard, each set including a looped cord folded and connected between its ends with a mail and having strands of unequal length, said strands being tied together by a knot located above the cumberboard when the mail is in any operative position, the longer strand extending upward from said knot and adapted be tied to a single cord extending to the jacquard.

1,947,647
EXTENSIBLE PLATFORM

John K. Holden, Los Angeles, Calif.

Application November 23, 1931
Serial No. 576,797
8 Claims. (Cl. 304—29)



1. A structure of the character described comprising a base, a platform vertically adjustable thereon, means on the base connected with the platform for supporting the platform at selected elevations, foldable braces on each of the sides of the structure connecting the outer portions of the platform with corresponding outer portions of the base for stabilizing the platform, a gear rotatable on said platform supporting means, and means connected with corresponding extremities of said braces and meshing with said gear for equalizing the movement of the braces on the several sides of said structure.

1,947,648
PROCESS FOR THE PRODUCTION OF PURE PHENOL CRESOLS AND BENZOL-HYDROCARBONS FROM CRUDE TAR PHENOLS

Fritz Hofmann and Karl Lang, Breslau, Germany, assignors to firm Oberschlesischer Berg- und Hüttenmännischer Verein e. v., Gleiwitz, Germany

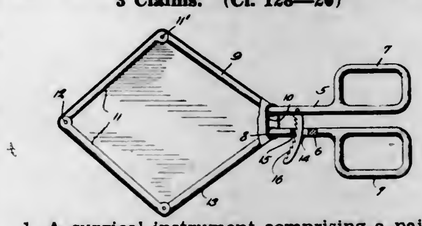
No Drawing. Application July 15, 1931, Serial No. 551,050, and in Germany July 22, 1930
1 Claim. (Cl. 260—154)

A process for producing pure phenol and also cresols and benzol hydrocarbons from crude tar phenols consisting in heating at a temperature not exceeding 485° C. the crude tar phenols with hydrogen under pressure, without catalysts being present.

1,947,649
SURGICAL INSTRUMENT

Godfrey J. Kadavy, Omaha, Nebr.

Application December 5, 1931. Serial No. 579,272
3 Claims. (Cl. 128—20)



1. A surgical instrument comprising a pair of pivotally connected members having outwardly extended blades, finger pieces on the free ends of the pivoted members, a pair of pivotally connected arms connected with the free ends of the blades, said arms and blades forming a quadrangle which expands when the finger pieces are moved together, an elastic member stretched over the arms and blades, covering the arms and blades, said elastic member adapted to normally urge the arms and blades to their closed positions and means for securing the arms and blades in their positions of adjustment.

1,947,650
DERIVATIVES OF HIGHER FATTY ACIDS CONTAINING NITROGEN AND PROCESS OF MAKING SAME

Karl Keller, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 4, 1930, Serial No. 418,668, and in Germany January 14, 1929
5 Claims. (Cl. 260—124)

2. As new compounds derivatives of higher fatty acids, containing more than 8 carbon atoms and containing nitrogen, being soluble in dilute acids, in form of their salts formed with acids being soluble in water, being mostly viscous oils and mostly soluble in organic solvents and convertible into water-soluble salts by the action of alkalies, which products are obtainable by acting with a solution of ammonia in an organic solvent on a halogenated fatty acid compound containing more than 8 carbon atoms and more than 2 halogen atoms of the general formula

$$C_nH_{2n+1-x-m}R_mHal_xCOY,$$

wherein R means hydrogen or hydroxyl, Y hydroxyl or the radical.

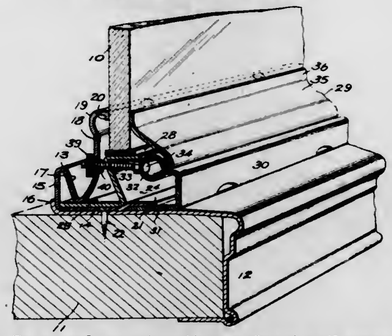


in which R is hydrogen or a monovalent hydrocarbon radical, m the number 1 or 2 and x a number more than 2.

1,947,651
STORE FRONT CONSTRUCTION

Louis Lamer, New York, N. Y.

Application February 10, 1932. Serial No. 592,151
5 Claims. (Cl. 20—56.4)



1. In a sash construction, a front rail member, a base member formed at its rear edge with an upstanding flange inturned upon itself and terminating in an upstanding rear rail member, an intermediate sill member having a base portion resting upon said base member and engaging under said inturned flange portion, upstanding web formed with said base portion and terminating into a horizontal glass supporting ledge, and securing elements connecting said front and rear rails through said upstanding web.

1,947,652
PROCESS FOR THE MANUFACTURE OF HEAVY METAL SALTS OF SULPHONIC ACID SOLUBLE IN MINERAL AND FATTY OILS AND THE PRODUCTS THEREOF

Siegfried Leonard Langedijk, Amsterdam, Netherlands, assignor to Naamlooze Vennootschap de Bataafsche Petroleum Maatschappij, The Hague, Netherlands

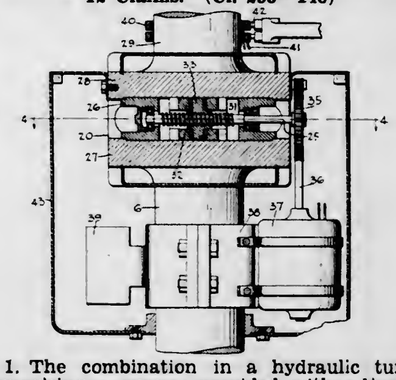
No Drawing. Application November 18, 1929, Serial No. 408,176, and in the Netherlands November 20, 1928
16 Claims. (Cl. 260—11)

14. An anti-fouling agent adapted to be used in solution in a paint oil consisting of a heavy metal salt, poisonous to marine incrustations, of those sulphonic acids which are extracted from the oil layer only of the product resulting from the sulphonation of a mineral oil previously subjected to sulphurous acid purification.

1,947,653
HYDRAULIC APPARATUS

Lewis Ferry Moody, Princeton, N. J.

Original application March 2, 1928, Serial No. 258,530. Divided and this application December 5, 1931. Serial No. 579,323
12 Claims. (Cl. 253—148)



1. The combination in a hydraulic turbine comprising a runner provided with adjustable blades, a runner shaft having a hollow portion, an operating rod extending through said hollow portion, an operative connection between said rod and blades for effecting adjustment thereof, and means for actuating said rod including a rotatable motor carried by and disposed externally of said shaft, and means extending through the wall of the shaft for operatively connecting said motor and rod.

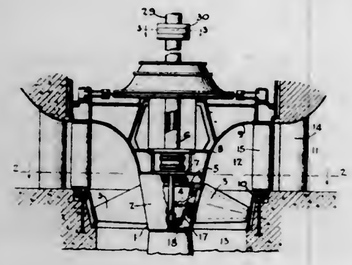
1,947,654
HYDRAULIC APPARATUS

Lewis Ferry Moody, Princeton, N. J.

Original application March 2, 1928, Serial No. 258,530. Divided and this application December 5, 1931. Serial No. 579,324
10 Claims. (Cl. 253—148)

1. The combination in a hydraulic turbine comprising a runner having adjustable blades, means for effecting adjustment thereof including a fluid actuated oscillatable motor centrally

disposed within the hub of said runner, and means connecting said motor with each of said



blades whereby any oscillatory movement of said motor is commonly and simultaneously transmitted to each of said blades.

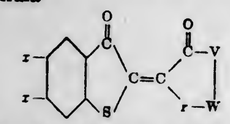
1,947,655

INDIGOID VAT-DYESTUFFS AND PROCESS OF MAKING SAME

Jakob Müller, Munchenstein, near Basel, and Robert Stocker, Basel, Switzerland, assignors to firm: Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application August 3, 1931, Serial No. 554,940, and in Switzerland August 8, 1930
18 Claims. (Cl. 260—53)

9. The unsymmetrical indigoid dyestuffs of the general formula



wherein one x stands for an alkyl radical of the lower aliphatic series, the other x for halogen, and r, W and V represent atoms of which two are carbon atoms adjacent to each other and at the same time appertaining to an aromatic ring system, and the third is NH, S or C, which products form orange to red, violet, brown to black grey powders, which dissolve in concentrated sulfuric acid to violet, brown and green solutions, yielding with hydrosulfite and caustic soda solution yellow, orange, violet and greenish black vats from which cotton is dyed fast scarlet to red, violet, brown and grey tints.

1,947,656

LEDEBURITIC, PRELIMINARY IRON ALLOY FREE FROM GRAPHITE

Josef Novak and Roman Kesselring, Novy Bohumin, Czechoslovakia

No Drawing. Application April 12, 1932, Serial No. 604,868, and in Germany April 13, 1931
3 Claims. (Cl. 75—1)

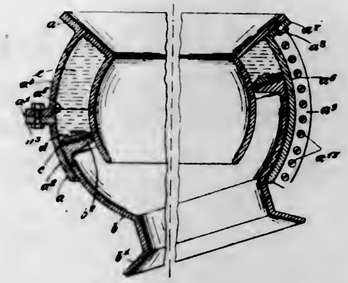
1. A ledeburitic pre-alloy free from graphite for manufacturing steels containing carbon, chromium, tungsten, nickel, copper and iron, said pre-alloy containing approximately the following main constituents: 20 to 30% chromium, 2 to 6% tungsten, 6 to 15% nickel, 10 to 15% copper, 2½ to 3% carbon; and of auxiliary constituents consisting of 5 to 18% molybdenum and the balance substantially iron and impurities.

1,947,657

HYDRAULIC JOINT PARTICULARLY SUITABLE FOR DIVING DRESSES OR APPARATUS

Joseph Salim Peress, Byfleet, England, assignor to Argonaut Corporation Limited, London, England, a company of Great Britain

Application August 7, 1933, Serial No. 684,077, and in Great Britain August 16, 1932
14 Claims. (Cl. 285—91)



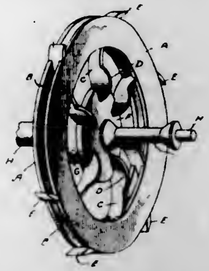
1. In a joint for apparatus subjected to external pressure, the combination with a female joint member formed as a chamber for reception of a sealing liquid, of a male joint member having an annular piston-like head and an annular packing fitted on said head and working over the internal surfaces of said chamber, for the purpose set forth.

1,947,658

IMPELLER AND SHAFT THEREFOR FOR USE IN CENTRIFUGAL AND TURBINE PUMPS

Nicolas Pizzuto, San Luis Potosi, Mexico

Application February 20, 1932, Serial No. 594,354, and in Mexico December 17, 1931
3 Claims. (Cl. 103—115)



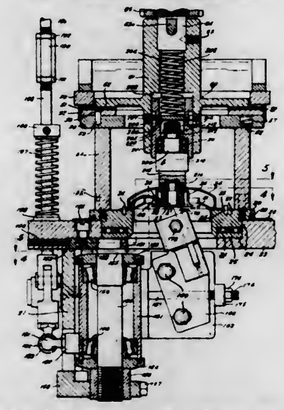
1. An impeller including a wheel rim formed with a peripheral slot dividing the rim into two sections, the dimension of the slot axially of the rim increasing from the outer edge of the rim inwardly, spokes having sections fitted within said slot and terminal portions projected beyond the slot, the spokes being curvilinear in radial direction of the wheel, with one side edge flat and embedded in a hub disk forming the hub of the wheel, the opposite edge of each spoke being laterally enlarged in the plane of the spoke for a length extending from the inner end of the spoke to a point short of the rim of the wheel, the enlargement being curved in a direction longitudinally of the spoke.

1,947,659

FACING APPARATUS

Lora E. Poole, Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a corporation of Delaware

Application June 15, 1932. Serial No. 617,310
30 Claims. (Cl. 82—2)



1. A lathe for facing one plane surface of a workpiece parallel to another plane surface thereof, both of said surfaces being on the same side of a workpiece and said other surface surrounding said one surface, comprising, in combination, a work support engaging and locating said surrounding plane surface of the workpiece; a facing tool; means for causing substantially relative linear movement between the worksupport and the tool in a plane parallel to said surrounding plane surface of the workpiece; and means for causing relative rotary movement between the worksupport and the facing tool.

15. A lathe for facing a flat surface of a workpiece comprising, in combination, a rotatable workpiece support including means for locating a workpiece thereon and drivingly connecting the same with the support; a clutch half drivingly connected with the support and yieldingly spaced therefrom; a rotary reciprocable clutch half adapted drivingly to engage the cooperating clutch half of the support and including means adapted yieldingly to retain a workpiece on the support when the clutch halves drivingly engage each other and said means being rotatable relative to the reciprocable clutch half; a prime mover; means drivingly connecting the prime mover with the reciprocable clutch half to rotate the same; a one revolution mechanism for moving the reciprocable clutch half into driving engagement with the clutch half of the support and for maintaining the clutch halves in driving engagement during a predetermined cycle of operation of said mechanism; a bodily movable tool; means for actuating the mechanism; and means for bodily moving the tool over said flat surface of the workpiece to perform a facing operation in response to said predetermined cycle of operation of the one revolution mechanism.

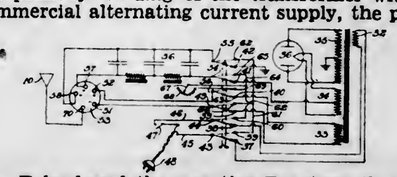
1,947,660

RADIO RECEIVING APPARATUS

Waldemar Joseph Albert Raffel, Dayton, Ohio

Application August 6, 1931. Serial No. 555,593
1 Claim. (Cl. 250—27)

A radio receiving apparatus including an alternating current rectifier circuit, a power transformer in said circuit, a primary winding in said transformer, a secondary filament heater winding a center tapped rectifier filament heater winding and a rectifier tube plate winding in said transformer, a positive B lead to the center tapped rectifier filament heater winding, a negative B return to the rectifier tube plate winding, terminals on a multi-terminal connector, a filter system, a variable resistance, a source of commercial alternating current or direct current, and a manually operated multi-polar switch for connecting the primary winding of the transformer with a commercial alternating current supply, the positive B lead and the negative B return through the filter system with the positive B and negative B contacts of the multi-terminal connector and the filament heater winding with said connector, for alternating current operation, or for connecting a source of commercial direct current supply through the filter system with the positive B and negative B contacts on the multi-terminal connector and with the positive A and negative A terminals of said connector to include the variable resistance in the positive A side of the filament circuit for commercial direct current operation.

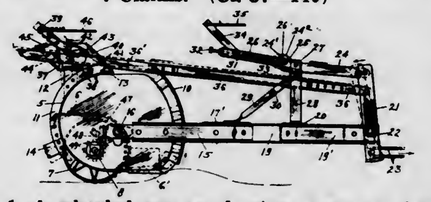


1,947,661

WHEELED SCRAPER

Hyrum Ricks, Huntington Park, Calif., assignor, by mesne assignments, to Lathrop Investment Corporation, a corporation

Application October 6, 1931. Serial No. 567,182
7 Claims. (Cl. 37—140)



1. A wheeled scraper having a scraper bowl adapted to be rocked on its axis and having stop means at places around its rearward side, a draft frame including a pivoted lever with one end provided with hitching means, a long member connected with the other end of said pivoted lever and overlying said scraper bowl and having means thereon to engage said stop means on said bowl for holding and moving said bowl on its axis, spring tension means connected with the upper end of said lever and operable to yieldingly resist rearward movement of said upper end of said vertical lever, whereby to cause a slight rocking movement of the bowl through said long member, and means for regulating the tension of said spring tension means.

1,947,662

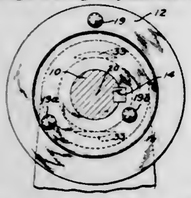
MEANS FOR FASTENING WHEELS TO SPINDLES

Harry G. Robinson, Stratford, Conn., assignor to Industries of America, Incorporated, Bridgeport, Conn., a corporation of Delaware

Application February 20, 1933. Serial No. 657,591
9 Claims. (Cl. 51—168)

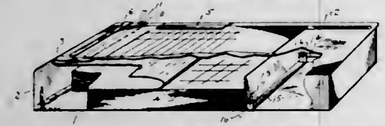
8. A thin abrasive disc having a plurality of openings therethrough to receive mounting lugs,

and said openings being asymmetrically arranged



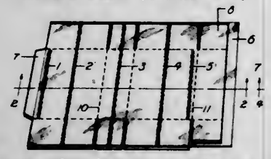
so the disc can be mounted on the lugs in one position only.

1,947,663
MANIFOLD PACK HOLDER
John Q. Sherman, Dayton, Ohio
Application June 15, 1931. Serial No. 544,547
22 Claims. (Cl. 282—12)



10. In a manifolding apparatus, a box like container open at its end to receive a packet of manifolding material, and from which superposed strips of manifolding material are simultaneously drawn through said open end over the top of the box which forms a writing tablet, and a spring pressed closure for said open end, said closure cooperating with the top to clamp the material thereby exerting a tension pressure upon the manifolding strips and yieldingly resisting their withdrawal from the receptacle.

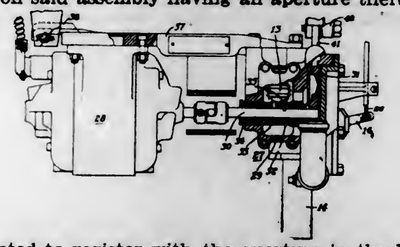
1,947,664
LINED MOISTURE-PROOF CARTON AND METHOD OF MAKING SAME
Edwin G. Staude, Minneapolis, Minn.
Application August 27, 1931. Serial No. 559,649
12 Claims. (Cl. 93—36)



1. A process for lining a foldable box blank which includes a separate glue seam for the blank and a separate glue seam for the liner, which consists in applying the liner to the blank and in having the liner material project beyond the blank on the side opposite that to which the adhesive is applied to condition it to be engaged and folded independently of the corresponding side of the blank, and first folding the projecting side of the liner upon itself, then folding the blank and liner to bring the liner glue seam into adhesive contact with the folded-over portion of the liner, and then bringing the blank into adhesive contact with the adhesive of the blank.

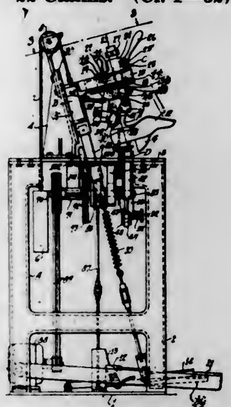
1,947,665
MOTOR AND PUMP MOUNTING
Theodore Tafel, Jr., Ben Avon, Pa., assignor to Standard Sanitary Manufacturing Company, a corporation of New Jersey
Application October 16, 1931. Serial No. 569,211
3 Claims. (Cl. 248—14)

3. The combination with a support, of means for attaching a motor and pump assembly thereto, comprising a bar suspended from said support, a plate secured to said assembly, a bent end on said plate adapted to hook over said bar, an apertured lug depending from said support, a lug on said assembly having an aperture therein



adapted to register with the aperture in the lug depending from said support, and means extending through the registering apertures for securing the opposite end of said assembly to said support.

1,947,666
APPARATUS FOR ATTACHING HEELS TO LASTED SHOES
Walter A. Thum, St. Louis, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 5, 1931. Serial No. 579,180
22 Claims. (Cl. 1—32)



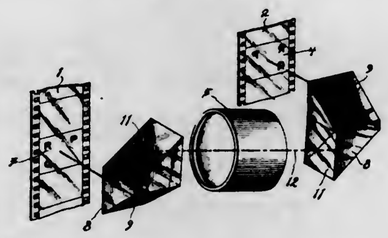
1. In apparatus for attaching a heel to a lasted-shoe, the combination comprising means for setting a nail through the sole of the shoe into the heel, and means responsive to nail-setting operation for compressing the heel, the last, and the sole together.

1,947,667
APPLICATOR PACKAGE
Louis A. Von Till, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a corporation of New York
Application January 7, 1932. Serial No. 585,174
12 Claims. (Cl. 15—134)



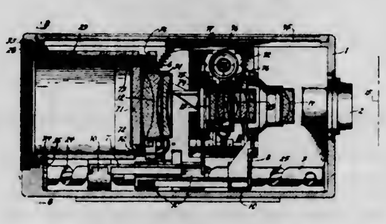
1. A package comprising a container having an annular groove at the mouth thereof, a substantially rigid member adapted to be seated in said groove, absorbent means adapted to be mounted above said member, and a member adapted to hold said rigid member and absorbent means upon said container.

1,947,668
OPTICAL SYSTEM
Arthur Warmisham, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application August 18, 1930. Serial No. 476,000
3 Claims. (Cl. 88—24)



1. In a motion picture film printing machine the combination with an objective lens, of four reflecting surfaces cooperating with said objective lens between printing and sensitized motion picture film strips, said reflecting surfaces comprising pairs of reflecting surfaces, each pair being arranged obliquely to and angularly offset on an axis and the optically adjacent reflecting surfaces of said pairs of reflecting surfaces being arranged correspondingly.

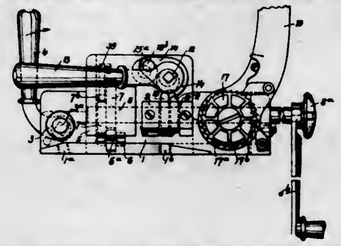
1,947,669
LENS OF VARIABLE EQUIVALENT FOCAL LENGTH
Arthur Warmisham, Evanston, and Irving Ciszki, Chicago, Ill., assignors to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application September 28, 1931
Serial No. 565,516
24 Claims. (Cl. 95—45)



1. In a lens of variable equivalent focal length the combination with a convergent middle member, of front and rear divergent members, and means whereby said members are relatively adjustable axially.

1,947,670
MACHINE FOR TYING PARCELS BY MEANS OF WIRE
Peter Wolf, Cologne-Kalk, Germany
Application February 10, 1932, Serial No. 592,064, and in Germany December 28, 1931
9 Claims. (Cl. 140—93)

1. In a wire-tying machine a clamping device, a twisting device, a tensioning device, a second clamping device, a cutting device and a mecha-

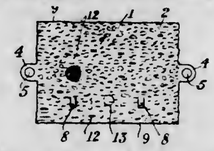


nism for simultaneously actuating the said second clamping device and the said cutting device.

1,947,671
MANUFACTURE OF ALKALI CARBONATE OR ALKALI HYDROXIDE, AND BY-PRODUCTS OF AMMONIA OR AMMONIUM SALTS
Friedrich Bartling, Hugifing, Germany; Jenny Bartling, executrix of said Friedrich Bartling, deceased, assignor to Alterum Kredit-Aktien-Gesellschaft, Berlin, Germany, a company of Germany
No Drawing. Application August 13, 1931, Serial No. 556,946, and in Germany August 26, 1930
2 Claims. (Cl. 23—119)

1. A method of manufacturing alkali and ammonia compounds, which comprises heating an alkali sulphate in admixture with lime and carbon and in the presence of an atmosphere of nitrogen, treating the resulting material with steam to produce an alkali compound, a sulphur compound, and ammonia, converting the sulphur compound into sulphuric acid and absorbing the ammonia into the sulphuric acid to produce ammonium sulphate.

1,947,672
IMITATION FUEL FOR ELECTRIC FIRES AND RADIATORS
Herbert Henry Berry, London, England
Application August 21, 1931, Serial No. 558,025, and in Great Britain May 5, 1931
3 Claims. (Cl. 272—8)



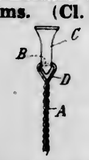
1. A blank for the construction of a simulated log for use in artificial fires, comprising a relatively thin section of metal of appropriate length and width having one surface formed to simulate the exterior surface of a log, the blank being formed with projections to receive and support illuminating means, the blank being further formed with bendable portions to be projected exteriorly of the log-simulating surface to provide rests to prevent rolling of the log in use.

1,947,673
PROCESS OF PREPARING ESTERS
Heinrich Bertsch, Chemnitz, Saxony, Germany, assignor to the firm H. Th. Bohme, Aktiengesellschaft, Chemnitz, Saxony, Germany
No Drawing. Application February 5, 1931, Serial No. 513,793, and in Germany February 10, 1930
6 Claims. (Cl. 260—99.12)

1. The process of producing esters of sulphated higher aliphatic organic acids comprising reacting a polybasic higher aliphatic carboxylic acid

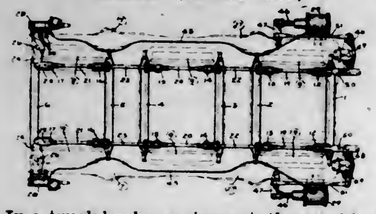
containing one or more radicals selected from the group consisting of —CH=CH and OH with a mono-hydroxyl derivative of a hydrocarbon and a sulphating agent.

1,947,674
GOLF TEE
Walter Dalglish, Glasgow, Scotland
Application October 13, 1932, Serial No. 637,635, and in Great Britain October 21, 1931
2 Claims. (Cl. 273—33)



1. A tee head formed with a transverse opening near its lower end, the end of the head below the opening being of conical formation, and an anchor passed through the opening in the head and projected below the head as a single stem in axial alignment with the conical point of the tee head whereby on introducing the anchor into the ground surface an opening is formed into which the conical point of the head may be readily forced to maintain the tee head upright in line with the stem and against casual wabbling.

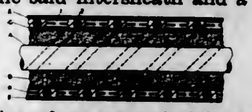
1,947,675
TRUCK BRAKE RIGGING
Francis E. Schwentler, St. Louis, Mo., assignor to The American Brake Company, St. Louis, Mo., a corporation of Missouri
Application July 10, 1931. Serial No. 549,817
4 Claims. (Cl. 188—203)



1. In a truck brake equipment, the combination with a truck frame having side members, of a system of operatively connected brake elements carried by said truck frame, said elements including a dead lever, a fulcrum lever pivotally connected to said truck frame and operatively connected at one end to said dead lever, a slack adjuster mounted on one of said side members, and an adjustable fulcrum block included in said slack adjuster directly connected to the other end of said fulcrum lever.

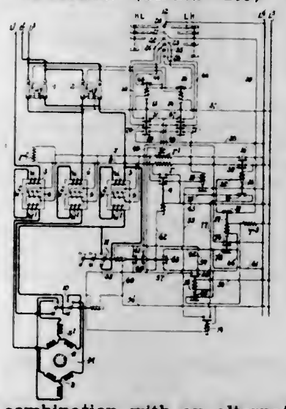
1,947,676
SINGLE CORE CABLE
Thomas Robertson Scott and Norman Arthur Allen, Aldwych, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application February 5, 1930, Serial No. 426,094, and in Great Britain July 26, 1929
8 Claims. (Cl. 173—266)

1. A single core electric cable comprising a conductive core, an impregnated fibrous dielectric surrounding the core, a permeable conductive intersheath surrounding the dielectric, an outer cover and a porous layer interposed between the intersheath and the outer cover, the said layer consisting of a porous material applied in an open helix over the said intersheath and a composite



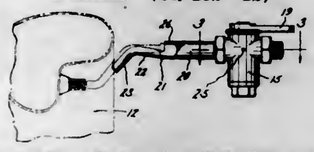
tape consisting of porous material and conducting material placed in the space between the adjacent turns of the helix.

1,947,677
MOTOR CONTROLLER
Edwin W. Seeger, Wauwatosa, and Eivind U. Lassen, West Allis, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 15, 1932. Serial No. 622,664
14 Claims. (Cl. 172—179)



1. The combination with an alternating current motor having a plurality of windings for connection in circuit selectively to afford different speeds, of reactors having direct current windings for varying their reactance value and means to commutate the circuits of said motor windings and the circuits of said reactors for control of said motor by the same reactors in conjunction with said motor windings selectively.

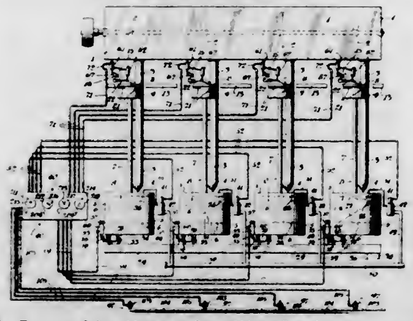
1,947,678
MEANS FOR DEFLATING PNEUMATIC TUBES
Walter V. Smith, South Hadley Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a corporation of Massachusetts
Application March 7, 1930. Serial No. 434,093
1 Claim. (Cl. 152—12)



In a vacuum device for deflating pneumatic tubes having valved stems, wherein the stem of each tube is provided with a rubber valve opening cap, a head connected to a vacuum line, a nozzle projecting from the head, said nozzle having an interior diameter such as to receive and make a sealing engagement with the rubber cap on the valve stem of the tube to be deflated when

the capped end of the stem is forcibly telescoped into the nozzle, and valve mechanism in the head operable in one position to supply vacuum to the nozzle to evacuate the tube and in a second position to permit atmospheric pressure to enter the tube.

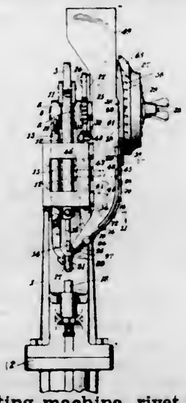
1,947,679
MASTER CYCLE CONTROL APPARATUS
Robert Alexander Steps, Los Angeles, Calif.
Application February 11, 1931. Serial No. 515,011
7 Claims. (Cl. 161—1)



1. In combination a plurality of primary mechanisms of the kind that operate on a cycle including a plurality of timed operations, master control apparatus for said primary mechanisms for bringing about certain of said timed operations, said master control apparatus including a plurality of sets of control units each set being operatively connected with one of said primary mechanisms and each set having for each of certain of the timed operations of its primary mechanism a control unit for bringing about the timed operation allotted to that unit, each such control unit including among other parts a rotatably mounted timing member which after turning through a certain arc of rotation cooperates with other parts of its control unit to bring about at its primary mechanism the timed operation allotted to that control unit, said control units being assembled in batteries that are arranged not in the same straight line with each other and each such battery including only such of said control units as bring about the same respective timed operation at the various primary mechanisms, actuating means for each battery of said control units for actuating the said rotatably mounted timing members in the battery to rotate them to measure time, and adjusting means for each battery of said control units for collectively changing for the entire battery the length of arc that each rotatably mounted timing member in the battery rotates through before it brings about the timed operation allotted to its control unit.

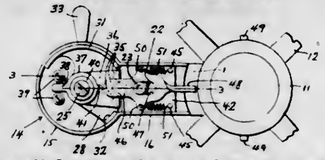
1,947,680
RIVET SETTING MACHINE
Edwin B. Stimpson, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y., a corporation of New York
Application July 10, 1931. Serial No. 549,913
12 Claims. (Cl. 218—2.1)

1. In a riveting machine, rivet feeding devices comprising a rivet hopper, a cupped feed wheel provided with a slotted rim, said feed wheel being mounted adjacent said hopper, means to rotate said feed wheel, a conduit from said hopper provided with a wall having a lower opening therein leading into said feed wheel, said wall being provided with an upper opening through which an excess of rivets fed to said feed wheel through said lower opening may return to said conduit when said feed wheel is rotated.



4. In a riveting machine, rivet feeding means comprising a rivet feeding chute having a curved base bar, a pair of strips spaced apart to comprise a guideway for a stem of a rivet, hollow washers spacing said strips from said bar, rivets extending through said washers to anchor said strips to said bar, certain of said rivets being hollow to permit anchoring screws for said chute to pass through said hollow rivets.

1,947,681
ELECTRIC SWITCH
Clarence E. Stow, Tulsa, Okla., assignor to Estel Scott, Kansas City, Mo.
Application August 20, 1932. Serial No. 629,706
Renewed July 22, 1933
3 Claims. (Cl. 200—59)

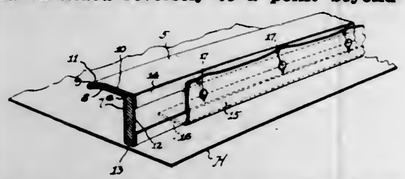


1. A switch comprising a housing, means for mounting the housing on a vehicle, contacts mounted in the housing, a manually operable, rotatably adjustable member mounted in the housing, a contact finger on the member engageable selectively with the contacts, a latch for releasably securing the member in adjusted position, a lever pivotally mounted in the housing and operable by an element of the vehicle, means operatively connecting the member to the lever for actuation to inoperative position thereby, and common resilient means normally maintaining the latch in operative position and the lever in inoperative position.

1,947,682
ROOF BOW TRIM RAIL
Travers J. Swan, Detroit, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a corporation of Michigan
Application September 28, 1931
Serial No. 565,569
2 Claims. (Cl. 296—118)

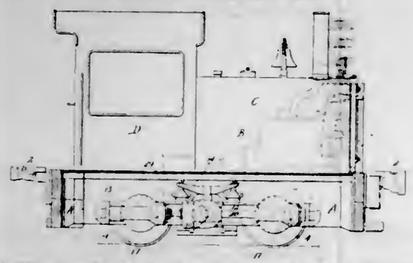
1. In an automobile roof bow, a length of sheet metal bent at right angles to provide an upstanding web and a substantially horizontally

extending flange providing a bearing surface for the roof, the length of metal being bent longitudinally at the outer edge of the flange and extended reversely to a point beyond the



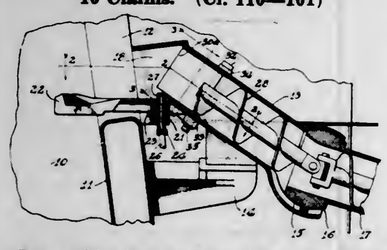
web and terminating in a depending flange an upwardly extending flange formed at the lower edge of said web, and a fibrous anchoring strip placed against said web and held by said depending and upwardly extending flanges.

1,947,683
RAILWAY VEHICLE
Albert J. Townsend, Lima, Ohio
Application August 2, 1930. Serial No. 472,644
69 Claims. (Cl. 105—82)



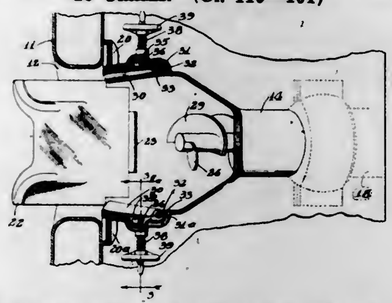
1. In a vehicle, a plurality of axles with their wheels, and three springs transmitting the weight of the superstructure to said axles, two being on one side of the vehicle and one on the other.

1,947,684
STOKER MECHANISM
Edwin Archer Turner, New York, N. Y., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application November 20, 1929, Serial No. 408,485
Renewed January 5, 1933
10 Claims. (Cl. 110—101)



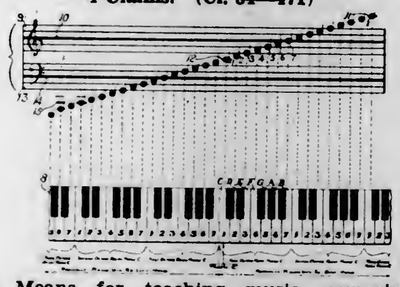
1. In combination, a firebox having a backwall with a firing opening therein, a tubular feed conduit delivering fuel to the firebox through said opening and a chambered distributor head apertured to receive and discharge pressure fluid disposed adjacent the forward end of said conduit outside the firebox, a section of a sidewall of said conduit rearward of but immediately adjacent said distributor head being hinged to be laterally adjustable and movable inwardly of the conduit.

1,947,685
STOKER MECHANISM
Edwin Archer Turner, New York, N. Y., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application April 24, 1930. Serial No. 446,840
10 Claims. (Cl. 110—101)



4. In combination, a fuel conduit, a fuel distributing means at the mouth of the conduit, said means including a distributor head having a face extending transversely of the conduit provided with openings for the discharge of pressure fluid, a screw conveyor in said conduit terminating short of said face, and a deflector vane at one end pivotally mounted on an upstanding axis disposed closely adjacent a sidewall of the conduit, said face being disposed intermediate said axis and an end of said vane.

1,947,686
APPARATUS FOR TEACHING MUSIC
Hazel B. Walsh, Lansing, Mich.
Application March 28, 1933. Serial No. 663,189
4 Claims. (Cl. 84—471)

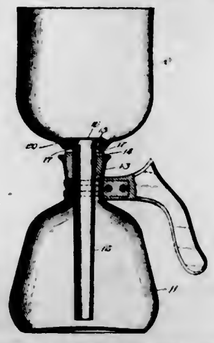


1. Means for teaching music, comprising printed treble and base staves each having one of its longitudinal lines colored, note characters on the staves, a series of numbers in numerical order each number representing a note of the musical scale, and said series of numbers arranged to begin contiguously with said colored lines.

1,947,687
APPARATUS FOR MAKING COFFEE
Victor R. Weast, Chicago, Ill.
Application March 10, 1932. Serial No. 597,907
3 Claims. (Cl. 53—3)

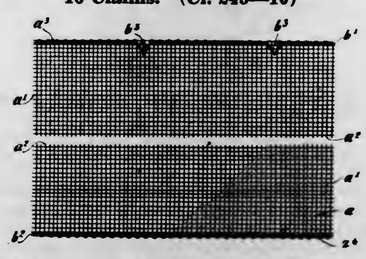
1. In a device of the character described, the combination with a lower liquid receptacle portion, of an upper coffee receptacle connected thereto, and a siphon tube formed integrally with said upper receptacle portion and passing into said lower receptacle portion, said tube extending into said upper receptacle and being connected thereto by a ring spaced from the side

of said tube, said upper receptacle and said tube together with said connecting ring being of uniform cross-section and said ring having an



upper portion of greater outside diameter than a lower portion thereof whereby a filter cloth enveloping said tube end and said ring may be detachably engaged at said smaller diameter.

1,947,688
WIRE FABRIC AND METHOD OF MANUFACTURE
Frank Woodman, Clinton, Mass., assignor to Edward C. Bowers and Charles L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y., a corporation of Massachusetts
Application November 1, 1927. Serial No. 230,234
16 Claims. (Cl. 245—10)

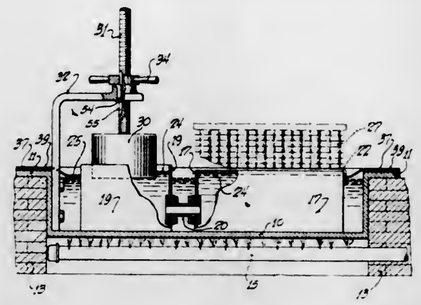


1. As an article of manufacture, a wire fabric having fiber stitching interlinked with the strands of the fabric, said stitching being close to the selvage of the fabric and projecting above the surface thereof and indented at regular intervals.

14. The method of making wire fabrics which consists of first forming the fabric of wire having a mesh adapting it for use for screening purposes and then passing through the meshes thereof and around the wires of the fabric along the parallel edges thereof a stitch thread of sufficient size to form along the parallel borders of the fabric friction-gripped cushioned edges adapting the fabric to be effectively gripped and clamped along such edges.

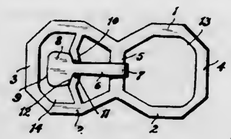
1,947,689
HIGH TEMPERATURE BONDING APPARATUS
Fred M. Young, Racine, Wis.
Application June 13, 1932. Serial No. 616,846
8 Claims. (Cl. 113—59)

1. A device for bonding the header plates of a convector unit onto the core thereof comprising, a container shaped to fit the inside of said header plates and over which a header plate is adapted to be fitted with the joints between the header plate and the core projecting downwardly into the container, a reservoir in open communication with said container,



a high temperature bonding material in said container and reservoir, a member projectable into the reservoir to displace the bonding material, and means including an automatically controlled electric motor to project the member into the reservoir and maintain the bonding material in said container at a desired level.

1,947,690
BUCKLE
Louis Alterson, New York, N. Y.
Application July 1, 1933. Serial No. 678,566
1 Claim. (Cl. 24—191)



A buckle having a frame composed of spaced side bars connected at their ends by end bars, a strap-engaging cross bar connecting the side bars, a tongue pivotally mounted on the cross bar, an enlarged flat head on the free end of the tongue, said head being inclined with respect to the body of the tongue and adapted to have its outer edge impinge against a strap without penetrating the strap while said strap is positioned between the edge of said head and the end member of the frame, and a cross member on the frame provided with a recess in its upper face forming a seat in which the tongue rests while engaging the strap.

1,947,691
DOOR CONSTRUCTION
Pierson C. Baldwin and Frederick W. Schweer, Los Angeles, Calif., assignors to Herbert K. Barber, Santa Monica, Calif.
Application November 18, 1929
Serial No. 408,086
19 Claims. (Cl. 20—20)

1. A door comprising: a plurality of door sections hingedly connected together to fold one

upon the other; spindles upon which one of said sections is pivotally mounted to turn about a horizontal axis; means to cause said pivotally mounted section to turn upon said spindles and



flexible means operated by said pivotally mounted section to cause folding and unfolding movement of one of said sections relative to the other.

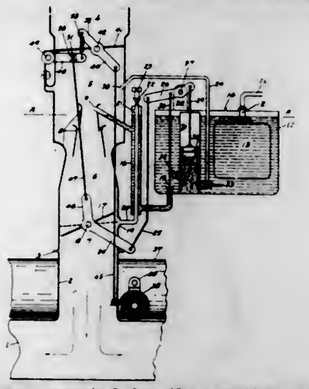
1,947,692
ELECTRIC RESISTANCE
Robert Beyer, Brooklyn, N. Y., assignor to Robert Beyer Corporation, a corporation of New York
No Drawing. Application February 6, 1930 Serial No. 426,434
14 Claims. (Cl. 201—76)

1. An electric resistance comprising a compacted mass containing finely divided carbon particles penetrated with an oxide of a metal of relatively high melting temperature.

7. The method of preparing an electric resistance which comprises mixing finely divided carbon with a salt of a metal of relatively high melting temperature, heating the mixture to a sufficiently high temperature to decompose said salt and penetrate the carbon particles with an oxide of said metal, forming a compacted mass of a mixture of the so-prepared carbon and refractory material having relatively high electrical resistance, drying said compacted mass, treating the dried mass with a solution of a salt of a metal of relatively high melting temperature, and heating the so-treated mass to a sufficiently high temperature to decompose said salt.

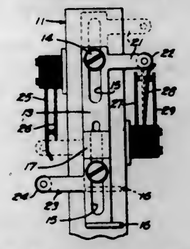
1,947,693
CARBURETOR
Leonard D. Boyce, Maplewood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Missouri
Application September 27, 1932 Serial No. 635,025
13 Claims. (Cl. 123—119)

1. In a carburetor, means forming an air inlet passageway, a pair of separately operable valve members for controlling the admission of air to said passageway, one of said members being operable by suction, latch means for holding the other of said valve members in closed position



and means operated by the suction operated valve member for controlling said latch.

1,947,694
TELEGRAPH SYSTEM
Charles W. Burcky and Albert H. Reiber, Chicago, Ill., assignors to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 20, 1932. Serial No. 638,724
9 Claims. (Cl. 178—4)

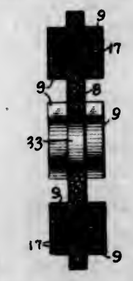


1. In a telegraph communication system, a receiving station including a call responsive mechanism, a communication signal responsive mechanism, a local operating mechanism, a false signal preventive means, electrical connection between each of said mechanisms and means, a channel of communication, and a master control switch operable in one direction to exclude in said connections said call mechanism and preventive means and include said signal mechanism and operating means and operative in another direction conversely.

1,947,695
PROCESS OF MAKING FLEXIBLE SHAFT COUPLINGS
John W. Carthew, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application September 10, 1930 Serial No. 480,889
3 Claims. (Cl. 18—59)

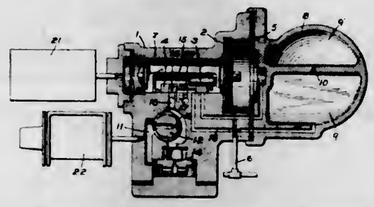
1. The process of forming a disc member for a flexible shaft coupling which consists in providing a perforated disc of rubber composition, inserting rolls formed from sheet rubber composition reinforced with fabric in the perforations, in slitting the ends of said rolls to facilitate displacement of the material of the rolls,

in placing said disc with the rolls projecting from opposite sides thereof in a mold, in then



applying pressure to said mold, and in then vulcanizing the coupling in the mold.

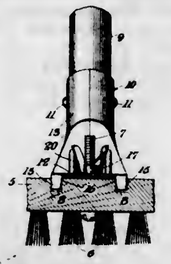
1,947,696
FLUID PRESSURE BRAKE
Alfred Chevillot, Gargan Livry, Seine et Oise, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 27, 1931, Serial No. 540,248, and in France September 11, 1930
3 Claims. (Cl. 303—41)



1. In a fluid pressure brake, the combination with a brake pipe, auxiliary reservoir and brake cylinder, of a brake controlling valve device comprising a piston subject to the opposing pressures of the brake pipe and auxiliary reservoir and valve means having a normal position and operated by said piston upon a reduction in brake pipe pressure for supplying fluid under pressure to the brake cylinder to effect an application of the brakes, and means for venting fluid under pressure at a rate less than the service rate of reduction in brake pipe pressure from the auxiliary reservoir to the atmosphere in a position of said valve means intermediate the normal position and the brake applying position to prevent movement of said valve means to the brake applying position at any time that the rate of reduction in brake pipe pressure does not equal the service rate.

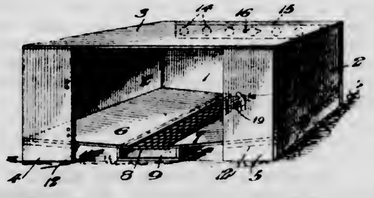
1,947,697
CONNECTER FOR IMPLEMENT HANDLES
Elias Cohen, New York, N. Y.
Application April 13, 1933. Serial No. 665,875
3 Claims. (Cl. 306—1)

1. In a cleaning device having a backing portion provided with an upstanding screw stud and sockets enterable from the top, an operating handle provided with a metallic fitting adapted to be removably and reversibly secured to the backing portion, said fitting being provided with downturned wedge shaped lug portions selectively engageable with some of the sockets, the upper portion of each lug being greater than the socket adapted to receive it and means including the mentioned screw stud



to clamp the fitting to the backing portion and to wedge the lugs into their respective sockets.

1,947,698
SANITARY HUTCH
Elbert A. Corbin, Jr., Swarthmore, Pa., assignor of one-half to William C. Biddle, Landsdowne, Pa.
Application September 15, 1931 Serial No. 562,849
1 Claim. (Cl. 119—19)



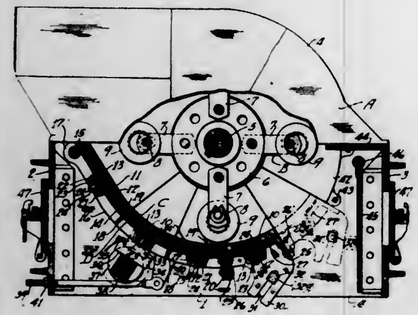
In a hutch, a sectional floor composed of imperforate sections slanting towards the center of the hutch, a perforated floor section joining the longitudinal edges of said solid section, braces carried by the vertical walls of said hutch for supporting said solid sections along their outer perimeters, a bracket adapted to support the inner longitudinal edges of said imperforate sections and to receive a removable drip pan, a ventilator in the back wall of said hutch, and a hinged door in the front wall of said hutch, said ventilator being accessible through said door.

1,947,699
SLIDE RULE
Burton G. Dwyre, Silver City, N. Mex.
Application April 20, 1933. Serial No. 667,078
12 Claims. (Cl. 235—70)



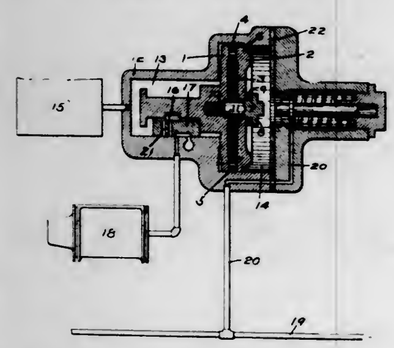
1. A slide rule for determining the difference between the slope distance and the horizontal distance, comprising a fixed member and a slidable member, one of said members having a scale graduated in accordance with the logarithms of natural numbers, and the other of said members having a scale graduated in accordance with the logarithms of the natural value of the versed sine of angles.

1,947,700
PULVERIZING MACHINE
Edwin E. Elsemeyer and Henry C. Griesedieck, Webster Groves, Mo., assignors to American Pulverizer Company, St. Louis, Mo., a corporation of Missouri
Application November 10, 1930
Serial No. 494,659
11 Claims. (Cl. 83—11)



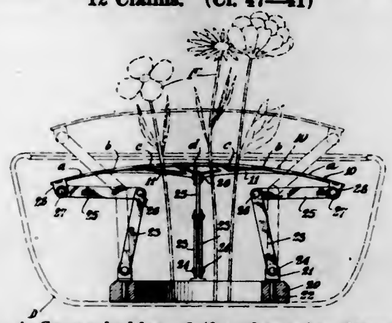
1. In a machine of the class described, a casing, and a grinding-concave comprising a series of sectional grinding-plates, and a cradle for adjustably supporting said plates, the cradle including a body portion and an end section mountable on the body portion, and arms on said end-section adapted for connection with the casing for detachably securing the cradle in adjusted position.

1,947,701
PISTON AND PACKING RING
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application April 9, 1928. Serial No. 268,478
1 Claim. (Cl. 309—4)



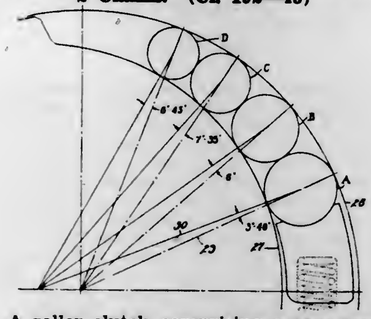
In a piston, the combination with a pair of relatively movable discs, of a packing ring slidably mounted between said discs, means adapted to maintain said discs in operative engagement with said ring as said ring and discs wear, said means comprising a resilient gasket and a bolt for compressing said gasket, and a piston ring stop carried by said bolt and interposed between said discs, said stop being separate from both discs and of less width than the width of the piston ring.

1,947,702
FLOWER HOLDER
Ethel A. Field, New York, N. Y.
Application January 16, 1933. Serial No. 651,966
12 Claims. (Cl. 47—41)



1. A flower holder of the character described comprising a frame having a plurality of concentrically arranged openings therein adapted to receive a plurality of flowers and support the same in decorative bouquet arrangement, and jointed means for vertically adjusting said frame to accommodate the flowers displayed.

1,947,703
ROLLER CLUTCH
Otto E. Fishburn, Muncie, Ind., assignor, by mesne assignments, to Free Wheeling Patents Corporation, South Bend, Ind., a corporation of Delaware
Application May 25, 1931. Serial No. 539,684
2 Claims. (Cl. 192—45)

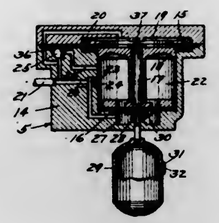


1. A roller clutch comprising a cam member, a race member and a plurality of rollers cooperating with said members and gradually decreasing in size, the angle of engagement between the largest roller and the cam member being substantially 3° and 40′ and the angle of engagement of the smallest roller being substantially 8° and 45′.

1,947,704
METHOD OF AND APPARATUS FOR RESOLVING LOOSE EMULSIONS
Harmon F. Fisher, Long Beach, Calif., assignor to Petroleum Rectifying Company of California, Los Angles, Calif., a corporation of California
Original application July 3, 1929, Serial No. 375,819. Divided and this application May 24, 1930. Serial No. 455,242
7 Claims. (Cl. 196—3)

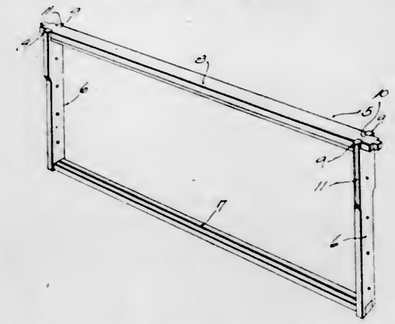
5. In combination: a tank providing a settling space; a pumping means capable of breaking a loose emulsion when working against but a small back pressure, said pumping means discharging directly into said settling space; and means for delivering a loose emulsion to the intake of said pumping means.

1,947,705
FLUID PRESSURE BRAKE
Ellery R. Fitch, Edgewood, and Earle S. Cook, Wilkinsburg, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Original application September 17, 1931, Serial No. 563,278. Divided and this application June 30, 1932. Serial No. 620,126
3 Claims. (Cl. 303—83)



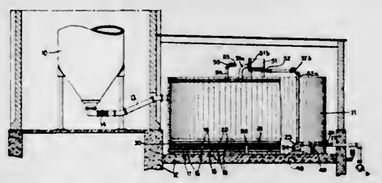
1. In a valve device for venting fluid under pressure from the brake pipe of a fluid pressure brake equipment, said valve device comprising a casing, two pressure chambers in constant communication with the brake pipe and normally charged with fluid under pressure from the brake pipe, a movable abutment separating said chambers and subject on opposite sides to the pressures of fluid in said chambers, valve means operable by said abutment upon a reduction in the pressure of fluid in one of said chambers for establishing a communication through which fluid under pressure is locally vented from the brake pipe and operable by said abutment to close off the local flow of fluid from the brake pipe upon the substantial equalization of fluid pressures in said chambers, means for retarding the rate of reduction in the other of said chambers and for restricting the flow of fluid thereto when fluid is being supplied from the brake pipe, and means operable upon the creation of a predetermined pressure differential between said chambers to increase the rate of recharge of said other chamber when fluid is being supplied from the brake pipe.

1,947,706
HIVE FRAME
Gordon G. Frater, Watertown, Wis., assignor to G. B. Lewis Company, Watertown, Wis., a corporation of Wisconsin
Application May 20, 1932. Serial No. 612,472
1 Claim. (Cl. 6—10)



In a frame for honey combs adapted to be received in a hive, said frame including a top bar having notches in its opposite sides adjacent its ends, end bars bifurcated at their upper extremities to engage the notches in the top bar, overhanging end portions on the top bar projecting beyond the end bars to rest on supports carried by opposite walls of the hive to suspend the frame in the hive with its end bars spaced from said walls of the hive, the ends of said overhanging end portions having parallel sides slightly inward of the planes of the sides of the top bar and terminating short of the adjacent portions of said hive walls to afford bee space, and tits projecting from the overhanging end portions to engage said hive walls and hold the frame against endwise shifting, said tits engaging the hive walls with a narrow contact and being of such size as to obstruct but a small portion of the bee space at the ends of the overhanging portions.

1,947,707
BLOW PIT AND METHOD OF OPERATING THE SAME
Hobert W. French, Erie, Pa., assignor to Hammermill Paper Company, Erie, Pa., a corporation of Pennsylvania
Application May 26, 1932. Serial No. 613,671
23 Claims. (Cl. 92—7)



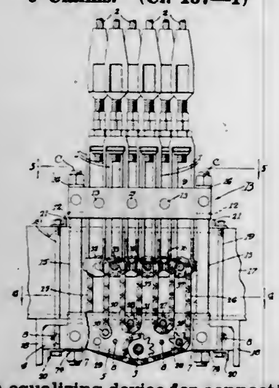
1. A method of operating a blow-pit which comprises continuously withdrawing liquid from the pit and returning at least a portion of it to the pulp in the pit.

4. A method of operating a blow-pit which comprises filling the pit with a liquid to a level above the drainage surface, blowing the contents of a digester into the pit in the presence of said liquid, and maintaining a continuous circulation of a portion of the same liquid during the blowing operation.

1,947,708
STRAIN EQUALIZING DEVICE

William P. Frost, Jackson Heights, N. Y., assignor to Evans Elevator Equalizer Company, Bedford, Ind., a corporation of Indiana

Application September 26, 1931
Serial No. 565,223
9 Claims. (Cl. 187—1)

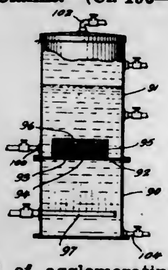


1. In an equalizing device for connecting a load and a plurality of stress-sustaining parts, a pair of opposed pulleys rigidly connected together and pivotally connected to said load, and a pair of running tension members severally anchored to and engaging said pulleys in opposite directions and also severally anchored at their other ends to said load, and a plurality of floating pulleys severally connected to said stress-sustaining parts, one of said tension members being arranged to engage in a loop at least one of said floating pulleys and the other tension member being arranged to similarly engage the remaining floating pulleys.

1,947,709
WETTED SEPTUM SEPARATOR AND METHOD

Murray E. Garrison, Los Angeles, Calif., and William F. Van Loenen, Casper, Wyo., assignors to Petroleum Rectifying Company of California, Los Angeles, Calif., a corporation of California

Application February 16, 1931. Serial No. 516,141
13 Claims. (Cl. 196—4)



1. A method of agglomerating the dispersed phase of a petroleum emulsion which includes the steps of: moving said emulsion through a porous mass of comminuted aluminum oxide crystallized in an electric furnace whereby the dispersed phase of said emulsion is agglomerated on said porous mass of comminuted material; and maintaining a body of the liquid forming said dispersed phase in contact with one surface of said porous mass.

13. In combination in an agglomerating apparatus for emulsions: walls forming an intake chamber; means for introducing emulsion into said intake chamber, said emulsion filling the upper end of said intake chamber; means for withdrawing water which settles to the bottom of said intake chamber; walls forming a discharge chamber above said intake chamber; a porous mass of material through which said chambers are in communication, said porous mass being contacted on its lower end by said emulsion in said intake chamber and being contacted on its upper end by a body of the liquid forming the dispersed phase of said emulsion and retained in said discharge chamber, the material forming the continuous phase of said emulsion moving upward through said body of liquid and into the upper end of said discharge chamber; and means for separately withdrawing said phases from said discharge chamber.

1,947,710
LUBRICATING APPARATUS

John Albert Goodey, Dodsland, Saskatchewan, Canada

Application April 5, 1932. Serial No. 603,253
2 Claims. (Cl. 221—47.4)



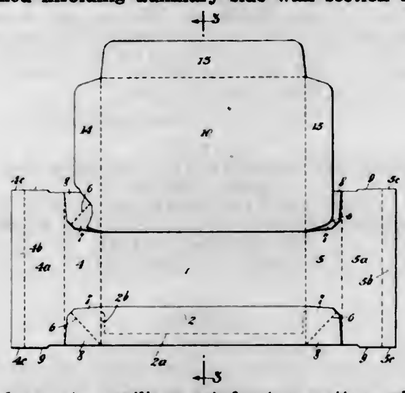
2. In a lubricating apparatus the combination with a lubricant gun having a nozzle for ejection of the lubricant into a receiving element, of a wiper for cleaning the receiving element preliminary to the lubrication thereof, said wiper comprising a cylindrical piece of flexible material, and means for attachment of said piece of material to the nozzle of the gun encircling said nozzle and projecting beyond the end thereof.

1,947,711
PAPER BOX

Ralph A. Gross, Lititz, Pa., assignor to Simplex Paper Box Corporation, Lititz, Pa., a corporation of Pennsylvania

Application August 10, 1932. Serial No. 628,136
3 Claims. (Cl. 229—34)

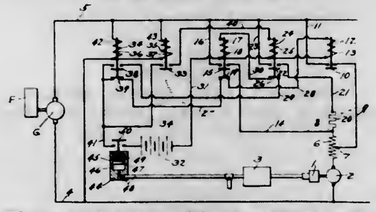
1. An instantly erectable knockdown box comprising a bottom section, integral exterior side wall sections, integral exterior end wall sections, corner sections, integral with both of the adjacent exterior side and end wall sections, and provided with diagonal scores permitting the portions of said corner sections to fold upon each other and upon the inner face of the adjacent exterior end wall section, a pair of auxiliary reinforcing sections separated by a line of fold connecting the outer edge of one of the exterior side wall sections with the inner edge of the cover section, and foldable upon each other and upon the inner face of said exterior side wall sections, the opposite exterior side wall section being provided with an infolding auxiliary side wall section, the exterior end wall sections being provided with infolding reinforcing sections, the lateral edges of which interlock with the last mentioned infolding auxiliary side wall section and said remote auxiliary reinforcing section, when the box is in erected position.



1,947,712
COMPRESSOR CONTROL MEANS

John B. Grosswege, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application November 19, 1932
Serial No. 643,366
2 Claims. (Cl. 172—239)



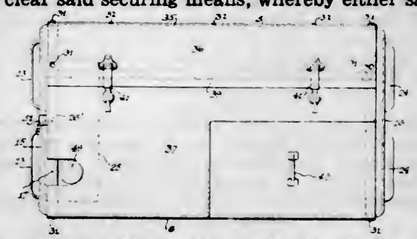
1. The combination with an electric motor, an electric generator for supplying current to said motor, and a resistance unit connected in series with the field coil of the motor, of means operative at a predetermined low voltage for automatically causing the generator current to flow through only a portion of the field coil of the motor, to thereby cause the motor to run at a higher speed than normal, means operative upon a predetermined increase in voltage of the generator for automatically causing the generator current to flow through the whole field coil of the motor, to thereby cause the motor to run at a slower speed than normal, and means operating upon a still greater predetermined increase in voltage of the generator for automatically causing the generator current to flow through the series connected resistance unit and field coil of the motor, to thereby cause the motor to run at a slower speed than normal.

1,947,713
HOUSING FOR A MOTOR-GENERATOR SET

Harold D. Gumpper, Detroit, Mich., assignor to Marjorie Teakle Gumpper, Detroit, Mich.

Application August 17, 1931. Serial No. 557,522
7 Claims. (Cl. 290—1)

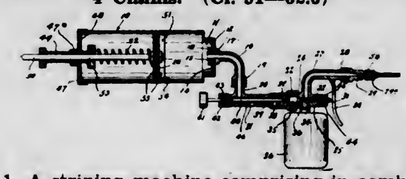
1. A housing for a motor-generator set comprising a bottom pan, a sub-frame secured therein, end stampings in the ends of said housing, means securing said stampings to said frame, and side plates secured to said sub-frame and formed to clear said securing means, whereby either said stampings or side plates may be detached without removal of the other.



1,947,714
AUTOMATIC STRIPING MACHINE

Frank H. Harmon, St. Louis, Mo., assignor of one-half to Martin E. Sheets, St. Louis, Mo.

Application July 17, 1931. Serial No. 551,365
4 Claims. (Cl. 91—62.6)

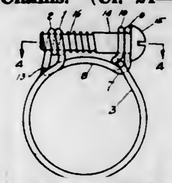


1. A striping machine comprising in combination, a paint container, a tubular connection secured to and leading from the forward end thereof and supporting said container, a nozzle detachably secured to the outer end of said tubular connection, a valve in said tubular connection, a valve stem extending from said valve and projecting outwardly from said tubular connection, a trigger engaging the projecting end of said stem and manually operable to unseat said valve and permit flow of paint through said nozzle, an adjusting member in said tubular connection for regulating the extent of the opening movement of said valve, and a spring-pressed piston in said container for forcing the paint toward the forward end thereof.

1,947,715
HOSE CLAMP

Lawrence H. Heuer, Detroit, Mich., assignor to L. A. Young Spring and Wire Corporation, Detroit, Mich., a corporation of Michigan

Application February 6, 1933. Serial No. 655,342
5 Claims. (Cl. 24—19)



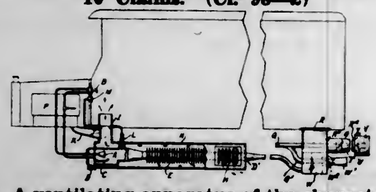
4. A hose clamp comprising a wire bent to form a helix at a substantial distance from its ends, said wire being shaped to form a pair of equal and parallel major arcs continuing respectively from the ends of said helix in planes substantially parallel to the axis of the helix, eyes formed on the concluding ends of said arcs in opposition to and substantially co-axial with said helix, fingers extending from said eyes and slung under the originating parts of said eyes to lock with said arcs, said fingers co-operating with said major

arcs to form complete circles and extending beneath said helix, and a screw passing through said eyes and helix and having a head bearing against one of said eyes, the threads of said screw being dimensioned to receive the convolutions of said helix.

1,947,716
CAR-HEATING AND VENTILATING SYSTEM

Louis C. Hyatt, Albany, N. Y., assignor to Consolidated Car-Heating Company, Inc., Albany, N. Y., a corporation of New York

Application March 2, 1928. Serial No. 258,591
10 Claims. (Cl. 98—2)



1. A ventilating apparatus of the character described comprising a chamber having means for communication with the space to be ventilated, means for causing a high velocity small fluid current to pass through said chamber so as to induce an air current of low velocity to travel through said chamber, a discharge pipe for said air current, an air current dispersing member positioned within the discharge end of said discharge pipe so as to divert said air current radially from its axial line of travel as it is delivered to the atmosphere, and means for discharging the diverted air current into the atmosphere in either of two directions.

1,947,717
COCOA PRODUCT AND PROCESS OF MAKING SAME

John Harvey Kellogg, Battle Creek, Mich., and George L. Teller and William Kedzie Teller, Riverside, Ill., assignors to The Battle Creek Food Company, Battle Creek, Mich., a corporation of Michigan

No Drawing. Application November 13, 1929 Serial No. 406,983
6 Claims. (Cl. 99—11)

1. The process which includes the treatment of natural theobromine containing products with a reagent including a lower mono-hydroxy paraffin alcohol, an alkali, and water, separating the liquid from the remaining solids, and washing the separated solids.

1,947,718
BRIEF AND SAMPLE CASE

Harry H. Labadie, Chicago, and Burton B. Beers, Park Ridge, Ill.

Application January 18, 1933. Serial No. 652,318
6 Claims. (Cl. 150—1.7)

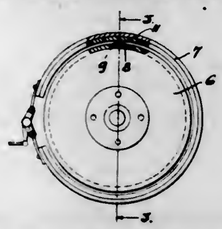


1. A bag having an open top, a closure extending from the bag at one side of the opening and adapted to fold over the opening, means for detachably securing the free end portion of the closure to the bag, and means for securing side portions of the closure to the bag, said means comprising members on the closure and bag respectively which move into and out of locking engagement with one another as the closure is moved to or from closed position.

1,947,719
DEVICE TO PREVENT THE SCORING OF A BRAKE DRUM

George S. Lane, Ridgewood, N. J.

Application October 28, 1930, Serial No. 491,697
Renewed June 29, 1933
6 Claims. (Cl. 188—218



1. In combination a brake drum and a band of flexible material to frictionally engage the drum, and a strip of metal of harder texture than the brake drum material, arranged transversely across the braking surface of the drum and projected beyond the face thereof toward the friction material.

1,947,720
TOOTHBRUSH

Stanley V. Laub, Detroit, Mich.

Application April 9, 1931. Serial No. 528,811
23 Claims. (Cl. 15—135)

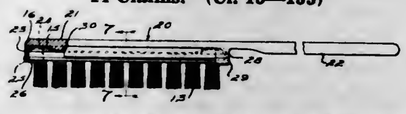


1. An article of manufacture comprising a tooth paste or other tooth cleansing agent container, and bristles secured to one wall of the container, the assembly being of such size that it may be used as a tooth brush, said wall to which the bristles are secured being comprised of such material that it may be punctured easily and the paste or cleansing agent extruded into the area of the bristles.

1,947,721
TOOTHBRUSH

Stanley V. Laub, Detroit, Mich.

Application December 30, 1931
Serial No. 583,936
14 Claims. (Cl. 15—135)

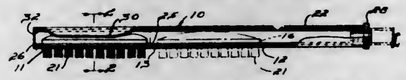


1. An article of manufacture comprising a bristle head having bristles projecting from one surface thereof and an annular side wall, and a cup shaped toothpaste container having its edges sealed to the side wall entirely around such wall.

1,947,722
TOOTHBRUSH

Stanley V. Laub, Detroit, Mich.

Application April 11, 1932. Serial No. 604,400
20 Claims. (Cl. 15—135)

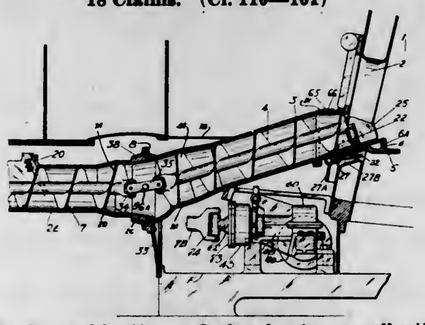


1. A toothbrush comprising a handle, a head having bristles on one surface, a deformable toothpaste container on the head, means on said handle for receiving the head and permitting longitudinally slidable movement thereof with respect to the handle, and means for deforming said container during such movement of the head.

1,947,723
LOCOMOTIVE STOKER

Nathan M. Lower, Bellevue, Pa., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware

Application July 2, 1928. Serial No. 289,774
18 Claims. (Cl. 110—101)



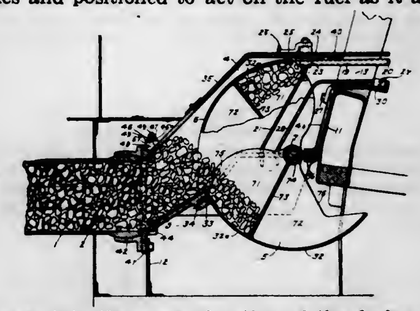
5. In combination, a firebox having a wall with an opening therein, a stoker feed conduit having its discharge end communicating with said firebox through said opening, means for advancing fuel through said conduit, a fuel distributor adjacent the discharge end of the conduit having a face provided with a plurality of jet openings and including a distributor plate extending forward from said face below said jet openings, and a pair of independently operable deflector vanes positioned wholly rearward of said face and being oppositely disposed and pivotally mounted one at each side of the conduit on a substantially vertical axis, said deflector vanes forming an expansible and contractible mouth for said conduit.

1,947,724
LOCOMOTIVE STOKER

Nathan M. Lower, Crestwood, N. Y., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware

Application August 11, 1928, Serial No. 299,013
Renewed July 28, 1933
7 Claims. (Cl. 110—113)

4. In combination, a firebox having a backwall with a firing opening therein, a conduit communicating with said firing opening, and fuel projecting means adjacent the forward end of said conduit outside the firebox, and deflecting means pivoted in said conduit rearward of but adjacent said fuel projecting means to be adjustable and movable inwardly of the conduit, said deflecting means comprising a pair of oppositely disposed deflector vanes pivotally mounted one at each side of the conduit on upstanding axes and positioned to act on the fuel as it advances into the zone of action of the fuel projecting means.



1,947,725
AGENTS FOR DIMINISHING OR SUPPRESSING FOAMING AND FROTHING AND THE APPLICATION THEREOF

Arthur Macarthur and Alexander Stewart, Blackley, Manchester, England, assignors to Imperial Chemical Industries Ltd., a corporation of Great Britain

No Drawing. Application July 23, 1932, Serial No. 624,362, and in Great Britain July 29, 1931
11 Claims. (Cl. 252—6)

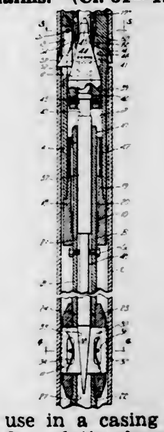
1. Process for the improvement of aqueous solutions, pastes or mixtures having tendency to foam which consists in adding thereto an anti-frothing agent comprising a water-insoluble metal soap, dissolved in an organic solvent.

11. An anti-frothing agent comprising a water-insoluble soap and a mixture of the liquid oxygen-containing organic compounds boiling from 195° C. and above obtainable as a by-product in the known synthesis of oxide of carbon to methanol under pressure.

1,947,726
CASING CUTTER

Ira J. McCullough, Huntington Park, Calif.

Application May 18, 1931. Serial No. 538,173
14 Claims. (Cl. 81—195)



1. A tool for use in a casing including, two sections related for relative longitudinal movement, means carried by one section for gripping the casing to hold said section against movement in the casing whereby the other section may be

moved longitudinally relative to it, a fluid pressure actuated member for operating the said means, and casing cutting means operated by said member upon relative longitudinal movement between the sections.

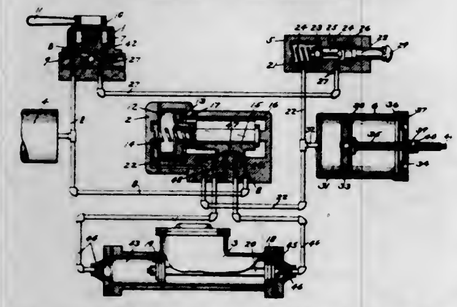
1,947,727

DOOR CONTROL DEVICE

Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application July 31, 1930. Serial No. 471,968

14 Claims. (Cl. 268—50)



1. In a vehicle door controlling means, the combination with a door engine for controlling the opening and closing of the vehicle door, of valve means operative upon a reduction in fluid pressure for controlling the operation of said door engine to open the door and operative upon the restoration of fluid under pressure for controlling the operation of said door engine to close the door, and means for retarding the restoration of the pressure of fluid in said valve means to time the operation of the valve means from door opening position to door closing position.

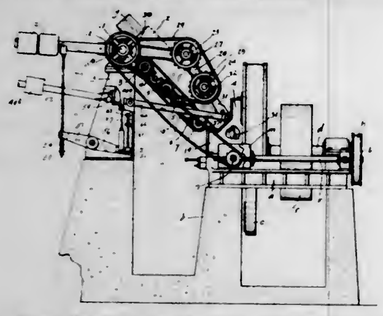
1,947,728

POWER-OPERATED FEEDING DEVICE

Henry S. Mitchell, Portland, Oreg.

Application July 25, 1931. Serial No. 553,226

10 Claims. (Cl. 83—75)



1. In a feeding device for chipping machine, the combination with a trough-like feeding hopper, of a rockable frame overhanging said hopper, driven feed rollers journaled in said frame at different elevations above the bottom of said hopper, a series of independently pivoted fingers carried by the forward end of said frame, and means for holding said fingers yieldingly in engagement with the material fed in said hopper, thereby to hold such material firmly in contact with the knives of the chipping machine.

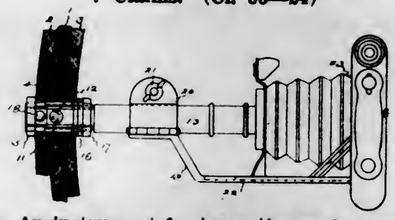
1,947,729

INSTRUMENT FOR DISCOVERING AND RECORDING DEFECTS IN METAL PLATES

Jared P. Morrison, Wethersfield, Conn., assignor to The Hartford Steam Boiler Inspection and Insurance Company, Hartford, Conn., a corporation of Connecticut

Application June 16, 1933. Serial No. 676,122

7 Claims. (Cl. 88—24)



1. An instrument for inspecting and recording the condition of walls of openings in metal plates, which comprises a rigid tubular casing containing magnifying lenses and a reflector for directing light rays upon the lenses, said reflector adapted to be inserted into and moved longitudinally and rotatorily in the opening to be inspected, means adjacent to the reflector for firmly clamping said casing to the walls about the opening to be inspected with the reflector in the opening, and means for the attachment of photographing apparatus in front of the lenses.

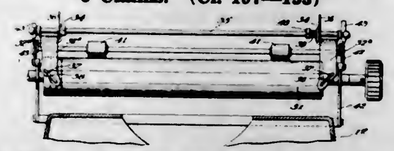
1,947,730

RIBBON HOLDING AND FEEDING MECHANISM FOR TYPEWRITERS

Harold Thomas Mosfelt and Harold Schagerholm, Chicago, Ill., assignors to Ross J. Beatty, Chicago, Ill.

Application December 28, 1931. Serial No. 583,472

5 Claims. (Cl. 197—153)



2. Ribbon holding and feeding mechanism comprising a fixed rail, a fixed rack, a carriage supported by said rail and having longitudinal and rotative movement with respect thereto, a gear co-operating with said rack carried by said frame, aligning shafts carried by said frame, means for selectatively transmitting motion from said gear to said respective shafts, ribbon spools carried by said shafts, ribbon guide arms extended from said frame in the planes of said spools having slots therein for the passage of the ribbon disposed at a 45° angle with axis of said arms.

1,947,731

ENERGY MEASURING AND RECORDING MECHANISM

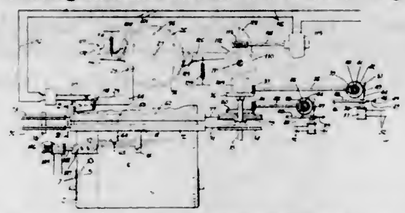
Herbert Nehls, Hawthorne, N. J., assignor to Landis & Gyr, A. G., a corporation of Switzerland

Application October 5, 1931. Serial No. 566,905

7 Claims. (Cl. 234—5.5)

1. An energy metering and recording mechanism including in combination devices for measuring different energy components, a marking device controlled by one measuring device, a device for interrupting said marking device controlled by another measuring device, and means

for causing said last two devices to coact to produce a record of the consumption of said components during an elapsed period of time.



1,947,732

PRODUCTION OF PIPERIDINE

Deric William Parkes, West Bromwich, England

No Drawing. Application February 17, 1933, Serial No. 657,257, and in Great Britain December 24, 1931

4 Claims. (Cl. 204—9)

1. A process for the manufacture of piperidine by the electrolysis of pyridine and sulphuric acid in a diaphragm cell having a cathode chamber and an anode chamber which comprises placing pyridine in the cathode chamber in such amount that 10% by volume of the catholyte is pyridine, adjusting the content of sulphuric acid in the catholyte to such an amount that it is present in the ratio of from 2.0 to 6.0 equivalents of the pyridine, regulating the sulphuric acid in the anode chamber in such an amount that the anolyte is of a density not less than 60° Twaddel, and conducting the electrolysis at a temperature determined in accordance with the ratio between acid and pyridine in the catholyte as follows:

Ratio of acid to pyridine in catholyte measured in equivalents	Temperature range
2.0	70—85° C.
3.0	45—80° C.
4.0	30—75° C.
5.0	25—65° C.
6.0	20—50° C.

1,947,733

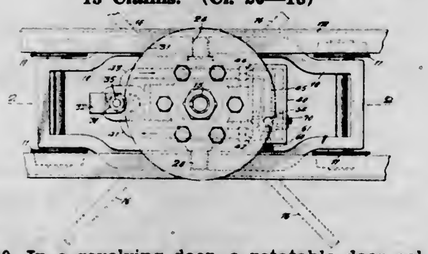
GOVERNOR FOR REVOLVING DOORS

Edmund Peremi, Manhasset, and Charles Kish, Elmhurst, N. Y., assignors to General Bronze Corporation, Long Island City, N. Y., a corporation of New York

Application September 17, 1932

Serial No. 633,585

13 Claims. (Cl. 20—18)



10. In a revolving door, a rotatable door column, a pump, driving connections between said door column and said pump, a pressure chamber connected to said pump, a pressure responsive element in said chamber, a friction brake mechanism for checking the speed of rotation of said door column, and operative connections between said pressure responsive member and said friction brake mechanism.

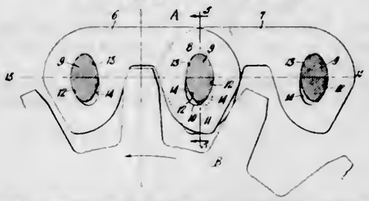
1,947,734

POWER TRANSMISSION CHAIN

David Barnes Perry, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a corporation of New York

Application March 6, 1933. Serial No. 659,758

10 Claims. (Cl. 74—32)



1. An oscillating joint for chains comprising adjacent link members each carrying a concave bearing surface and a double concave seating surface, and a floating pintle member connecting adjacent link members, said pintle member having double convex bearing surfaces arranged for sliding frictional contact with the concave bearing surfaces and for seating contact with the double concave bearing surfaces.

1,947,735

PROCESS OF PRODUCING STEEL

William J. Popham, Detroit, Mich., assignor to Minnesota Metallurgical Co., Minneapolis, Minn., a corporation of Minnesota

No Drawing. Application April 14, 1932

Serial No. 605,351

5 Claims. (Cl. 75—14)

1. The process of reducing oxide iron ores and admixtures of ores to the form of true steel and its alloys, which consists in melting the ore or ores while commingled with a flux and with a salt of polycarboxylic acid, and in which the polycarboxylic acid is in the proportion of from fifteen (15) to thirty-five (35) grams to fifteen (15) pounds of ore.

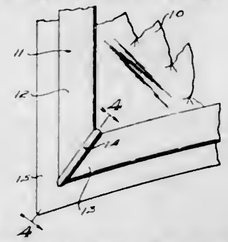
1,947,736

FRAME CORNER BEAD

Albert T. Potter, Detroit, Mich., assignor to Ainsworth Manufacturing Corporation, a corporation of Michigan

Application March 6, 1933. Serial No. 659,767

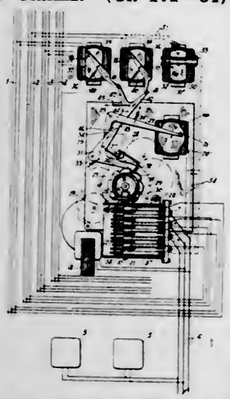
6 Claims. (Cl. 296—84)



1. A frame construction including a pair of frame members, the ends of which are cut to form a miter joint, a tubular portion formed on the inner side of said frame members, a corner

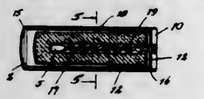
plug receivable in the ends of the tubular portions of the frame members to connect said members, the ends of the tubular portions of said frame members being arranged in abutting relation to form a smooth surface on the inner side of the corner of said frame, a flange portion formed on the outer side of the frame members, the ends of said flange portions being disposed in spaced relation at the mitered corner joint and a corner bead adapted to be inserted between the spaced apart ends of the outer flanged portions of the frame by a drive fit connection.

1,947,737
ELECTRICITY METER
Riccard Pudelko, Zug, Switzerland, assignor to Landis & Gyr, A-G., a corporation of Switzerland
Application September 14, 1931, Serial No. 562,738, and in Switzerland September 20, 1930
5 Claims. (Cl. 171—34)



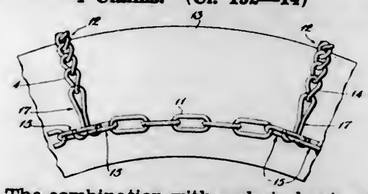
2. Switching mechanism including in combination several switches, rotary operating means for opening and closing said switches in sequence, a stop to prevent operation of said switches and means for rendering said stop operative when power can be supplied through none of said switches.

1,947,738
LIP STICK
Philip A. Reutter, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application November 14, 1931
Serial No. 574,942
3 Claims. (Cl. 206—56)



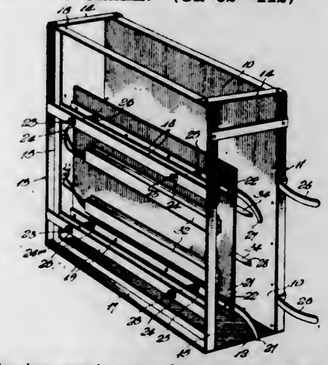
1. A holder for a stick of cosmetic material comprising a shell, a stick-receiving cup slidable in said shell but held against rotation with respect thereto, said cup having a centrally positioned elongated slot, and means for advancing and retracting said cup including a turn-button rotatably mounted on the rear end of the shell so as to be held against movement longitudinally thereof, and a twisted flat strip secured at its rear end to said turn-button and passing through said slot.

1,947,739
CHAIN CONNECTER
John R. Reyburn, Fairfield, Conn., assignor to American Chain Company Inc., a corporation of New York
Application May 11, 1932. Serial No. 610,599
4 Claims. (Cl. 152—14)



1. The combination with a chain having interconnected open links, of an attachment comprising a member having a shank provided with a head adapted to pass through both of the overlapped end loops of two adjoining links of said chain, said head acting to prevent displacement of said member from the chain when said end loops occupy a position closely adjacent to each other and to said shank.

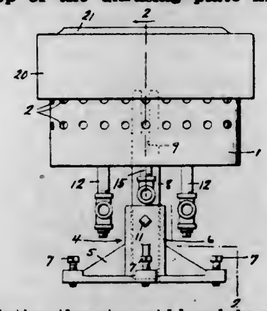
1,947,740
ICE SCORING MACHINE
Eugene O. Robinson, Hutchinson, Kans., assignor of one-half to T. Blakemore, Hutchinson, Kans.
Application December 22, 1932. Serial No. 648,489
5 Claims. (Cl. 62—112)



1. An ice scoring machine comprising two vertical plates for disposition at opposite sides of a block of ice, means mounting said plates for relative inward and outward movement, thermo-scoring blades carried by said plates, means for limiting the relative inward movement of said plates, spring means for normally relatively moving said plates inwardly to the spacing allowed by said limiting means, and diverging guide means projecting from said plates to be engaged by a block of ice entering the machine for the purpose of spreading said plates against the action of said spring means sufficiently to receive the ice block.

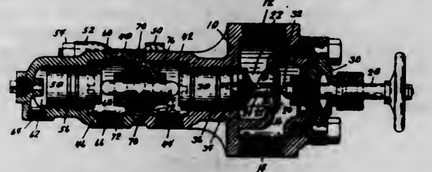
1,947,741
OIL BURNER
John F. Ryan, Cadillac, Mich.
Application January 13, 1932. Serial No. 586,384
5 Claims. (Cl. 158—92)

1. A burner comprising a firepot open at its top, fuel supply conduits extending into the firepot through the bottom of said firepot and projecting above the bottom, spreader heads on the upper ends of the fuel supply conduits, the firepot having a plurality of air inlet openings in its walls, a diffusing plate removably mounted on the top of the firepot, said diffusing plate having an opening therein, a hood removably mounted on the top of the diffusing plate in vertically



spaced relation thereto, said hood depending over the diffusing plate and over the firepot and in spaced relation to said firepot and having an opening in alignment with the opening in the diffusing plate, and means for supporting said firepot.

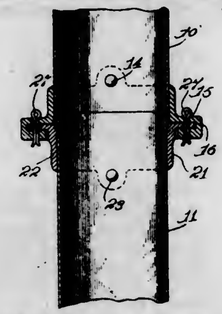
1,947,742
HYDRAULICALLY-CONTROLLED VALVE
Eugene L. Scheilens, Ridgewood, N. J., assignor to C-S Engineering Company, Englewood, N. J., a corporation of Delaware
Application October 19, 1931. Serial No. 569,653
13 Claims. (Cl. 137—139)



1. A hydraulically-operated valve comprising a valve casing, a valve member therein, means including a balancing piston connected with said valve member for holding said valve member closed by the pressure in said casing, a hydraulically-operated piston opposed to said balancing piston and acted on by pressure fluid at one end for moving said valve member to open positon. casing means providing separately-vented leakage chambers open to the confronting ends of said pistons, means including a partition wall common to both chambers for isolating them from each other, and means for transmitting motion between the pistons.

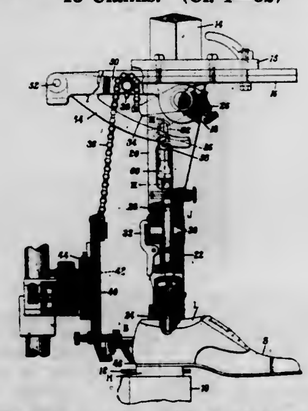
1,947,743
COUPLING CONNECTION FOR ENSILAGE CONDUITS
Walter G. Schoeneck, Mokena, Ill.
Application December 18, 1931
Serial No. 581,865
1 Claim. (Cl. 285—175)

The combination with a plurality of lengths of conduits having one of their ends of relatively smaller diameter than the other, so that the adjacent ends of the connecting conduits are adapted to telescopically receive one another, of coupling members secured to the adjacent ends of said conduit, one of said coupling members having an outwardly projecting annular flange and a downwardly projecting annular wall formed integrally therewith, two oppositely disposed arcuate flanges extending inwardly from said wall, said second complementary member having outwardly and arcuately arranged flanges adapted to engage said inwardly projecting flanges of



said first named coupling member, there being a plurality of apertures arcuately arranged in the flanges of each of said coupling members, and cotters adapted to be inserted in the registering apertures of each of said flanges for rigidly securing the adjacent ends of said conduit.

1,947,744
WORK-POSITIONING MEANS
John F. Standish, Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application June 21, 1932. Serial No. 618,498
13 Claims. (Cl. 1—32)

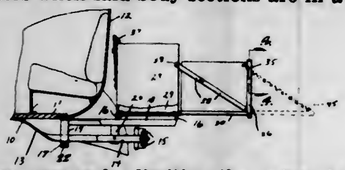


1. The combination with a work-support having portions movable relatively to each other, of a movable work-positioning member co-operating with the support, and means made effective by the relative movement of the support-portions for governing the movement of the positioning member.

1,947,745
TRUNK AND CARRIER FOR AUTOMOBILES
William H. Taylor, Des Moines, Iowa
Application December 15, 1930.
Serial No. 502,384
2 Claims. (Cl. 224—29)

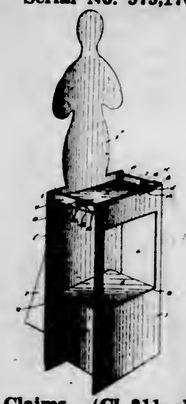
1. A trunk comprising a main body section having a bottom, front and side members, an auxiliary body section comprising a back having one edge hinged to the back edge of said bottom, a top hinged to the top edge of said back and designed

to cover the top of the main body section, side members secured to said back designed to be overlapped by the first side members when said sections are in a folded position, means for locking said second side members to the first side members when said body sections are in a folded



position, means for limiting the outward swinging movement of said back to a position in alinement with the bottom of the main body, and means for limiting the outward swinging movement of said top to a position in alinement with said back when the said back and top members are in their unfolded positions.

1,947,746
DISPLAY STAND
David F. Thomson, Melrose, Mass., assignor to the Forbes Lithograph Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application November 16, 1931
Serial No. 575,170



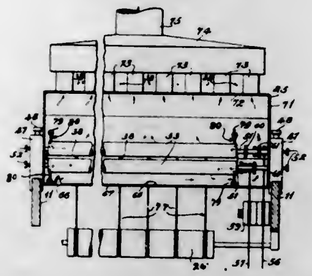
6 Claims. (Cl. 211—156)

5. A display stand comprising a front plate having a display opening and a back plate spaced from the front plate, a lower shelf extending between the front and back plates to support objects displayed through said opening, wings extending from the front to the back plate in inwardly spaced relation to the vertical side edges of the front plate and adapted to support said shelf and form a rigid connection between the front plate and the back plate, and a shelf above said opening connecting the front and back plates.

1,947,747
PROCESS FOR WATER PURIFICATION
Oliver M. Urbain, Columbus, Ohio, assignor to Charles H. Lewis, Harpster, Ohio
No Drawing. Application February 17, 1933
Serial No. 657,313
8 Claims. (Cl. 210—2)

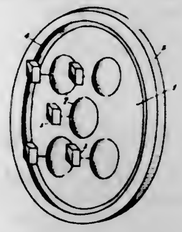
1. A process of water purification comprising treating a polluted water containing alcohols and amines with a mono acid halide of a dibasic acid in at least gram molecular equivalents to the alcohols and amines present.

1,947,748
PAPER CLEANING MACHINE
George Van Wormer, Hamilton, Ohio
Application November 12, 1931
Serial No. 574,626
3 Claims. (Cl. 15—7)



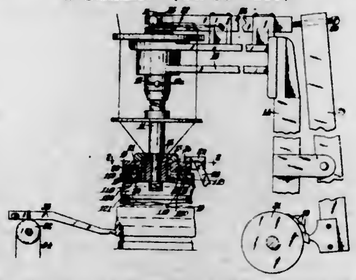
3. A paper cleaning machine comprising a cleaning chamber, a multiplicity of upper and lower opposed sets of feed rolls adapted to co-engage upon and feed paper between the sets, and alternated rotary brushes arranged to engage the paper between the rolls, means to rotate the rolls, and means to rotate the brushes in the same direction with the adjacent rolls at a higher speed, said rolls and brushes including mounting shafts projecting a materially greater distance at one end than at the other, the chamber having an end wall close to the brushes and rolls, and an opposite wall spaced a material distance from them, whereby to form a wide space for passage of air, said chamber having a bottom spaced below the rolls and brushes and having an air inlet port near the first named wall of the chamber, said chamber having an air outlet in its upper part and means to exhaust air through the outlet.

1,947,749
LOUD SPEAKER
Roelof Vermeulen, Arend Thomas Van Urk, and Cornelis Loman, Eindhoven, Netherlands, assignors to Radio Corporation of America, a corporation of Delaware
Application March 5, 1929, Serial No. 344,158, and in the Netherlands April 27, 1928
4 Claims. (Cl. 179—109)



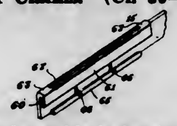
2. In a loud speaker having a plurality of actuating units, a diaphragm comprising a plane member, a plurality of acoustically similar conical diaphragms rigidly mounted thereon at spaced intervals, said conical diaphragms being mounted at their large end, and means at the small end of each conical diaphragm for attachment to a driving unit.

1,947,750
KNITTING MACHINE
Edwin Wildt and Henry Harold Holmes, Leicester, England, assignors to Wildt and Company Limited, Leicester, England, a British company
Application December 23, 1929, Serial No. 415,963, and in Great Britain January 8, 1929
2 Claims. (Cl. 66—135)



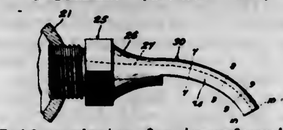
1. A circular knitting machine comprising in combination wale-thread feeders, means to move the feeders to wrap their threads round their needles and, in addition, means operable at a time when the feeders are in a position in front of the needles so as to be adapted to feed their yarns thereto, to shog the feeders relatively to the needles either to the right or to the left at will over a greater number of needles than is possible by the wrapping movements of the feeders.

1,947,751
KNIFE
Lawrie L. Witter, Jamaica Plain, Mass.
Application June 20, 1930. Serial No. 462,496
11 Claims. (Cl. 30—10)



1. A holder for a blade having a cutting edge shorter than the blade, shoulders at the blade ends and a tang on its rear edge, comprising an elongated member having substantially parallel elements for receiving and supporting the blade therebetween, cooperating means for engaging the blade shoulders to prevent movement of the blade in the direction of its cutting edge, and means integrally connecting the said elements and adapted to support the blade at its rear edge, the last-named means having a recess for receiving the said tang.

1,947,752
FLUID PROJECTOR
Alvin H. Benesh, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 3, 1930. Serial No. 425,623
3 Claims. (Cl. 299—121)



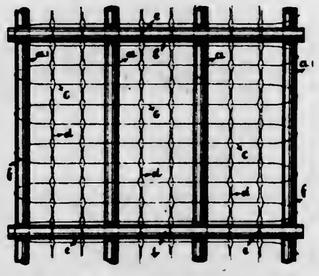
3. A fluid projector for transforming a solid round stream of fluid under pressure into a solid unbroken flat sheet without substantial loss of fluid in the form of ineffective spray, and with minimum loss of head, comprising a body having a longitudinal bore; and a transversely divergent deflector constituting an extension of said body and terminating in a straight transverse edge, said deflector comprising a pair of contiguous longitudinally arcuate sections of determinate length struck from different centers with successively diminishing radii, the deflecting surface of said deflector forming a smooth continuation of said bore where it joins the same at the discharge orifice, and varying in cross section from substantially a semi-circle adjacent said orifice, to a semi-rectangle at the discharge end.

1,947,753
NURSING BOTTLE
Morris H. Block, Denver, Colo., assignor to Harry Kortz, David A. Block, and Phillip Kleiger, all of Denver, Colo.
Application July 25, 1932. Serial No. 624,598
7 Claims. (Cl. 215—11)



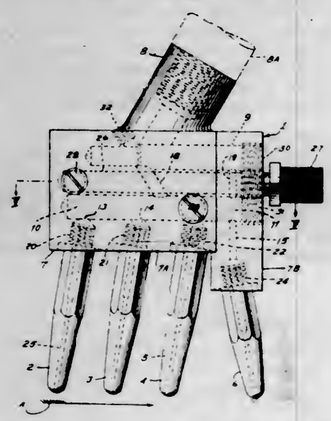
1. A nursing bottle having at one end a non-apertured base upon which it rests when being filled through a neck at its other end and whose longitudinal axis is perpendicular to said base and extends centrally through its neck, said bottle being enlarged above its base and having opposite flat side surfaces leading from said enlarged portion toward said neck, said surfaces being inclined toward and approaching said longitudinal axis of the bottle as they approach the neck, upon either of which flat side surfaces the bottle is adapted to rest on a supporting flat surface.

1,947,754
REENFORCED WIRE NETTING
Johan Bölger, Amsterdam, Netherlands
Application April 23, 1931, Serial No. 532,328, and in the Netherlands March 2, 1931
3 Claims. (Cl. 72—110)



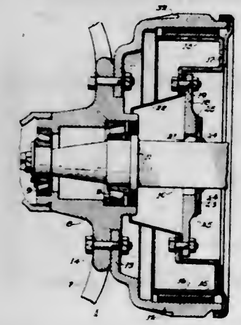
2. A reenforcing netting comprising a plurality of longitudinal heavy wires, a plurality of longitudinal stranded fine wires, said stranded wires being positioned between the longitudinal heavy wires and parallel thereto, a plurality of transverse heavy wires, and a plurality of transverse fine wires, all the transverse heavy wires and fine wires being passed through the strands of the longitudinal stranded wires and all the heavy wires being fastened to each other at their points of intersection.

1,947,755
MULTIPLE FLAME WELDING NOZZLE
Worthy C. Bucknam and George I. Jones, Buffalo, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio
Application April 6, 1929. Serial No. 353,129
17 Claims. (Cl. 158—27.4)



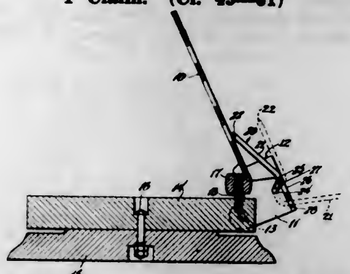
9. In a welding torch nozzle, means for directing a preheating flame upon pieces of metal to be welded, and means for directing a welding flame upon the preheated metal at an acute angle to the surface of the metal and inclined in the direction of the relative movement of the metal with respect to the nozzle.

1,947,756
MOUNTING OF BRAKE ANCHORS
Addi Benjamin Cadman, Beloit, Wis., assignor to Warner Electric Brake Corporation, South Beloit, Ill., a corporation of Illinois
Application March 7, 1932, Serial No. 597,223, Renewed January 15, 1934
15 Claims. (Cl. 29—84)



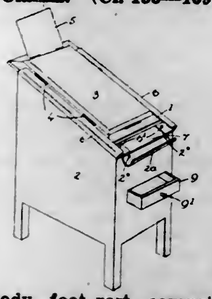
1. For mounting an anchor member of a brake on an axle having a wheel adapted to be mounted rotatably on one end of said axle, the method which consists in establishing a concentric relation between the drum of the brake and said wheel, establishing a concentric relation between said drum and anchor member, mounting said wheel on said axle, and securing said anchor member to the axle while the member is thus supported.

1,947,757
BOOKHOLDER
John L. Clark, Bangor, Maine
Application September 10, 1931
Serial No. 562,176
1 Claim. (Cl. 45—61)



In combination with an inclined back member, foot members on the back member at opposite sides thereof; said foot members having ledge portions to support an open book; flanges on the foot members extending laterally toward each other and parallel to the back member; said flanges each having an inclined inner edge and recesses below the inclined edge; and a bail-shaped member having side arms arranged between the foot members; laterally extending trunnions on the bottom of the side arms and journalled in the foot members; said arms having forwardly offset portions above the trunnions to engage the inclined edges of the flanges.

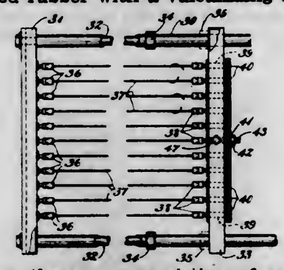
1,947,758
CHIROPODY FOOT REST
Alfred William Cousins, Westcliff-on-Sea, England
Application August 17, 1932, Serial No. 629,213, and in Great Britain August 25, 1931
11 Claims. (Cl. 155—169)



1. A chiropody foot-rest comprising a top member, a base for said top member, a removable inspection mirror, a tail-piece to said mirror, and means for holding said removable mirror in proximity to a foot placed on said top member, said means including a series of apertures located around said top member and adapted to receive said tail piece.

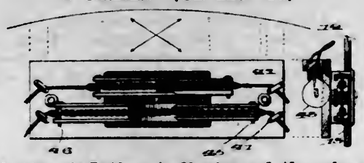
1,947,759
TWISTED FIBROUS RUBBER PRODUCT AND METHOD OF MAKING THE SAME
Edward N. Cunningham, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 5, 1932. Serial No. 604,526
20 Claims. (Cl. 18—53)

7. The process which comprises stretching strip rubber of polygonal cross-section to several times its unstretched length and twisting the rubber strip until its effective cross-section is substantially circular, and vulcanizing the stretched and twisted rubber with a vulcanizing agent se-



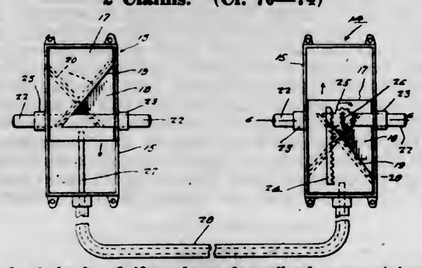
lected from the group consisting of compounds of sulphur with hydrogen, phosphorus, and chlorine, to a point at which it permanently retains the major part of its elongation and twist.

1,947,760
TIRE DEFLATION INDICATOR
George E. Denhart, Pittsburgh, Pa.
Application May 25, 1932. Serial No. 613,530
4 Claims. (Cl. 116—34)



1. A tire deflation indicator of the character described comprising, a frame having an aperture therein, a movable indicator member having indicia thereon and supported adjacent to the aperture in said frame, connections between said indicator member and a tire contacting element, and means included in said connections for holding said tire contacting element into engagement with the tire and for moving the indicator member relative to said aperture when the tire becomes deflated.

1,947,761
AUTOMOBILE DOOR LOCKING MEANS
Cecil L. Duquaine, Menominee, Mich.
Application July 3, 1933. Serial No. 678,937
2 Claims. (Cl. 70—74)



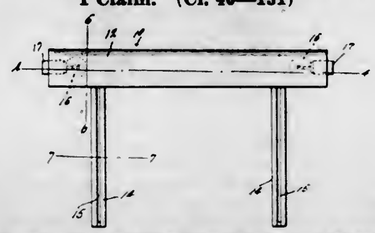
1. A lock of the class described comprising a casing having an opening in one side thereof, a bolt passing through said opening, the inner end of the bolt being diagonally arranged and having an annular groove therein also diagonally arranged, a reciprocatory member located in the casing and having a recess in one face thereof extending through that side edge thereof which is adjacent the side of the casing having the hole therein, the inner wall of the recess being diagonally arranged and having a T-shaped groove therein for receiving the inner end of the bolt, and means for reciprocating said member for projecting and retracting the bolt.

1,947,762
COMB PACKAGE
Richard J. Dwyer, Lyndhurst, N. J., assignor to A. Gutierrez, Inc., Passaic, N. J., a corporation of New Jersey
Application September 28, 1932
Serial No. 635,278
3 Claims. (Cl. 206—46)



1. The combination of a comb and a bag enclosure therefor of material such as described, said bag consisting of a front and a back meeting with a single crease at one side, and having a bellows fold connection at the opposite side, the bellows fold consisting of a central crease and two outer creases, each spaced from the central crease one-half the thickness of the back of the comb, the said front and back corresponding to the measurement of the sides of the comb from the points of the teeth to the back edge.

1,947,763
ILLUMINATING ATTACHMENT
Vernal Edwin English, Phoebus, Va., assignor of one-third to Nora K. Sweek, Phoebus, Va.
Application March 16, 1933. Serial No. 661,139
1 Claim. (Cl. 40—131)



A license plate holder comprising an elongated lamp box provided with a lamp in each end thereof and being open at its bottom, said lamp box being provided with a rear wall, a pair of depending integrally connected leg members at the said back wall, each of the said leg members being provided with edge portions bent back upon itself to reinforce the leg, each of the said legs being provided with a longitudinal license plate securing element receiving slot at the edge portion of which the back-turned longitudinal edge portions of the leg terminate.

1,947,764
HOSE SUPPORTER
Edward Ericson, Coral Gables, Fla.
Application June 10, 1933. Serial No. 675,306
3 Claims. (Cl. 24—245)

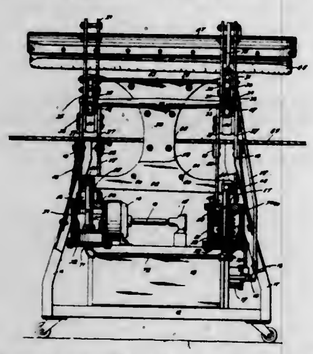
1. A hose supporter comprising two members, one of said members being formed to provide a transversely disposed loop to provide means to connect said member to a strap, said member also having a second loop extending from the inner bar of the first loop, the free end portion of the second loop being continued by an angular bar,

a button secured to the free portion of said bar, the second member comprising a loop to engage



around the button and to clamp hose thereto, and an elongated flexible member connected to both of the first named members.

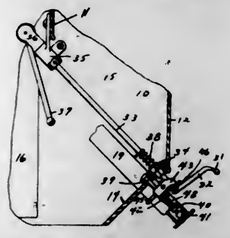
1,947,765
OPERATING MECHANISM FOR PRESSERS
Nicholas L. Etten, Waterloo, Iowa, assignor, by mesne assignments, to Chamberlain Corporation, a corporation of Iowa
Application March 8, 1932. Serial No. 597,453
8 Claims. (Cl. 68—9)



1. In a device of the class described, the combination of a supporting frame, a head frame having one side hinged thereto, a head carried by said head frame, means for locking the free edge of said head frame to the supporting frame, said means including a manually operated latch, a buck, fluid operated means for moving said buck toward said head, the last said means including a control valve, and means actuated by said latch for operating the control valve whereby said valve is opened only after the head frame is locked in a closed position, and whereby said valve is closed before said latch is released.

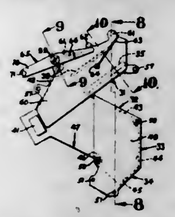
1,947,766
COMBINED ACCELERATOR AND STARTER OPERATING MECHANISM
Pearl G. Frazier, Polk City, Iowa
Application May 26, 1930. Serial No. 455,682
1 Claim. (Cl. 123—179)

In a device of the class described, the combination of a steering wheel support, a starter rod near one side of said support, a rock shaft rotatively and slidingly mounted near the opposite side of said steering wheel support having a crank arm on its lower end, a leg engaging lever on its upper end for rocking said shaft, a bracket bar, means for fastening said bracket bar to said support, a lever, means for pivoting said lever to said bracket at a point intermediate the ends of said lever with one end of said lever adjacent to said starter rod and the opposite end adjacent to said crank arm, means for operatively connect-



ing one end of said lever to said starter rod, a spring for imparting longitudinal and torsional movement to said rock shaft, and means for connecting said crank arm to a throttle operating lever.

1,947,767
SCAVENGER FOR COIN CONTROLLED MECHANISM
William Lloyd Gilchrist, Los Angeles, Calif., assignor to Rowe Vending Machine Corp., Ltd., Los Angeles, Calif., a corporation of Nevada
Application October 29, 1932. Serial No. 640,195
9 Claims. (Cl. 194—97)

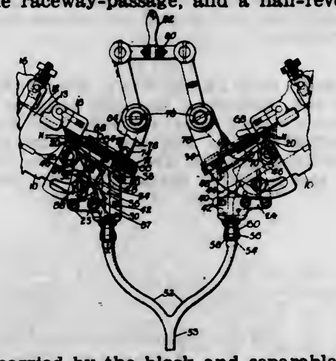


5. In a scavenger device, a body portion having two opposed plane faces, said body including a downwardly extending portion upper and lower spaced ribs on each face of said first body portion, said ribs being inclined forming an entrance chute on each face of said body, a refuse outlet below said entrance chute, a dividing member on each face of said body in advance of said refuse outlets, there being an exit chute in advance of said dividing members, cover plates mounted on said body portions, said cover plates extending from the front of said body, a release plate movably mounted adjacent each face of said body, said release plates engaging said ribs of said entrance chute, means to retain said release plates in engagement with said ribs of their associated entrance chute and a single means to simultaneously move said release plates out of engagement with the ribs of their associated entrance chutes.

1,947,768
NAIL DISTRIBUTOR
George Goddu, Winchester, and Fred L. MacKenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application February 1, 1930. Serial No. 425,265
21 Claims. (Cl. 1—39)

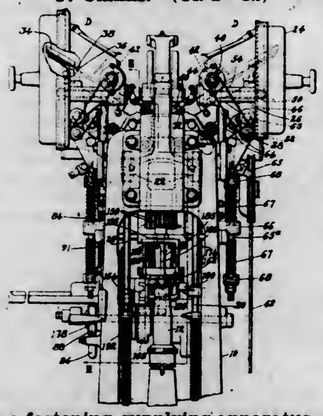
1. In a nail-distributor, a raceway provided with a nail-passage, a block mounted upon and separable from the end of the raceway, said block

containing a passage communicating directly with the raceway-passage, and a nail-reversing



device carried by the block and separable from the raceway therewith.

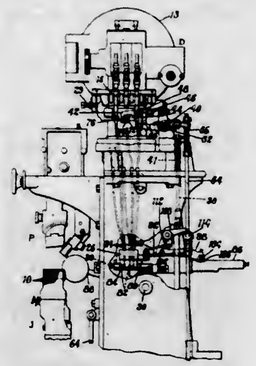
1,947,769
FASTENING-SUPPLYING APPARATUS
Fred L. MacKenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application February 14, 1930. Serial No. 428,529
37 Claims. (Cl. 1—32)



1. In a fastening-supplying apparatus, a frame, a support pivoted upon the frame, a receptacle movable upon the support, a raceway leading from the receptacle, a fastening-separator movable in co-operation with the raceway and having a contact-surface, a spring co-operating with the separator, means movable on the support for temporarily maintaining the spring energized but ineffective, and energizing means for the spring movable upon the frame, said energizing means being free to move into and out of engagement with the contact-surface of the separator.

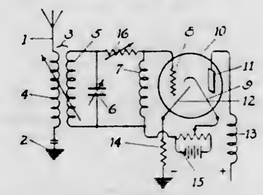
1,947,770
NAILING MACHINE
Fred L. MacKenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application June 7, 1932. Serial No. 615,834
35 Claims. (Cl. 1—32)

1. The combination with a raceway, of a movable nail-delivering device co-operating therewith, means for moving the delivering device in co-operation with the raceway, and a member for connecting the moving means and delivering device, said member being mounted on the moving



means for movement with and upon it between an effective connecting position and an ineffective position.

1,947,771
ELECTRICAL REPEATER
Philip M. Haffcke, Hamden, Conn., assignor to Radio Research Laboratories Inc., a corporation of Delaware
Application April 14, 1932. Serial No. 606,598
7 Claims. (Cl. 179—171)

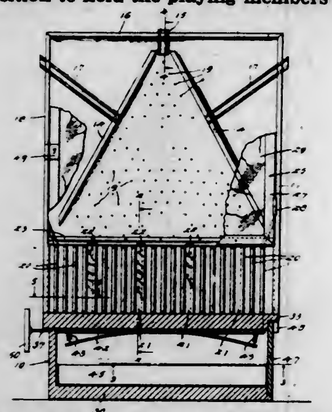


1. In an electrical system the combination of a selector circuit, a discharge tube into which said selector circuit feeds, said discharge tube having electrodes including a cold cathode, a cathanode, anode and control electrode, a filling of a conductive gas within said tube, and means for controlling the diversion from said circuit of the cathode-control electrode current which tends to flow therethrough.

1,947,772
GAME
Lorenzo W. Harris, Asbury Park, N. J.
Application September 22, 1932
Serial No. 634,405
5 Claims. (Cl. 273—138)

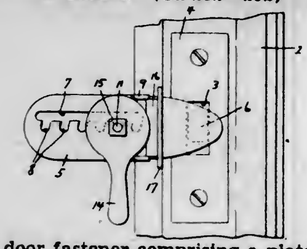
1. A game as set forth comprising a hollow base, a pair of vertical walls disposed in spaced relation to each other extending upwardly from the base, means for providing a tortuous passage between the walls, guide means for guiding a playing member into the tortuous passage adjacent the top thereof, vertical guide members disposed below the tortuous passage, indicia bearing plates mounted within the vertical guides, means engaging the upper ends of the plates to prevent contact of the playing members with the upper ends of the plates, a coin holding member disposed below the vertical guides, means for swingably mounting the coin holding member in the base, yieldable means engaging the coin

holding member to constantly urge the member into position to hold the playing members within



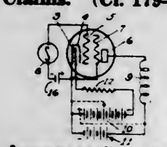
the guide members, and operating means for the holding member.

1,947,773
DOOR FASTENER
John A. Haviland, Fostoria, Ohio
Application June 21, 1932. Serial No. 618,541
2 Claims. (Cl. 292—292)



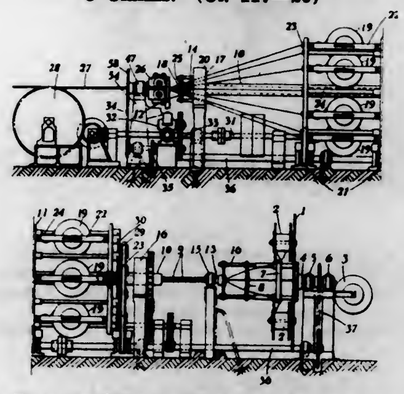
1. A door fastener comprising a plate engageable between the door and a door jamb, means for anchoring the plate between the door and the jamb, said plate having a slot therein and further having a plurality of notches communicating with the slot and extending downwardly therefrom, a pin operable in the slot and engageable selectively in the notches, a housing mounted on the pin, a bolt slidably operable in the housing and engageable with the door, and means mounted on the pin and bearing on said housing for actuating the bolt.

1,947,774
ELECTRICAL TRANSLATING DEVICE
John Allen Heany and Philip M. Haffcke, New Haven, Conn., assignors, by direct and mesne assignments, to Radio Research Laboratories, Inc., a corporation of Delaware
Application July 21, 1931. Serial No. 552,186
18 Claims. (Cl. 179—171)



1. A system for repeating electrical variations including a receptacle having a useful gas content containing at least five cold electrode members, means including a source of potential for creating a glow discharge in said gas and means for localizing said discharge between certain of said members.

1,947,775
MACHINE FOR PRODUCING WIRE STRANDS
Harry Hill, Belvedere, England, assignor to Calender's Cable and Construction Company, Limited, London, England, a British company
Application June 5, 1931, Serial No. 542,259, and in Great Britain June 21, 1930
5 Claims. (Cl. 117—20)



1. In a machine for the manufacture of prespiralled non-circular strand, a rotating stranding die formed of a plurality of rolls, means located beyond the said die, for drawing off the completed strand, means for rotatably driving at least one of the said rolls, means for driving the drawing-off means, and a slipping coupling, inserted in the first said driving means, appropriately proportioning the torque applied to the said driven roll relative to the torque applied to the drawing-off means.

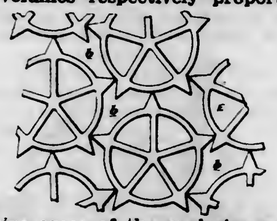
1,947,776
PURIFICATION OF GAS
Wilbert J. Huff, Lloyd Logan, and Oscar William Lusby, Baltimore, Md.
No Drawing. Application January 28, 1928 Serial No. 250,331
11 Claims. (Cl. 23—2)

1. A cyclic process for treating combustible gases containing organic sulfur compounds and hydrogen sulfide which comprises passing the gas at an elevated temperature above 250° C. over a unitary absorbent material consisting of an intimate mixture of substances one component of which forms a metallic oxide easily reducible to the metal under the conditions of use, in mixture with another component which contains at least one member of the sixth to the seventh group of the periodic system which forms an oxide not reducible under the conditions of use, whereby the sulfur is removed, followed by the revivification of the absorbent by an oxygen containing gas in another phase of the cycle.

1,947,777
FILLING UNIT
Wilbert J. Huff, Oscar W. Lusby, and Lloyd Logan, Baltimore, Md.
Application April 24, 1930. Serial No. 446,930
13 Claims. (Cl. 261—94)

1. A filling unit consisting of a hollow thin-walled body open at both ends and divided interiorily by partition walls extending parallel to the axis of the body and having exterior fins extending in the planes of said partitions so formed

that a number of the units may be placed side by side to form laterally enclosed spaces, said spaces and the interior spaces of the bodies having their volumes respectively proportional to



the respective areas of the enclosing walls, and with the numerical relationship between each volume and wall area being substantially the same for all respective volumes and areas.

1,947,778
COMBINED GENERATOR AND PURIFIER
Wilbert J. Huff, Lloyd Logan, and Oscar William Lusby, Baltimore, Md.
Application April 25, 1930. Serial No. 447,228
11 Claims. (Cl. 48—80)

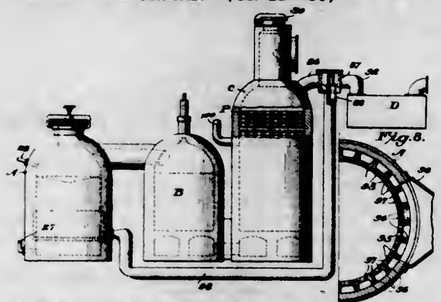


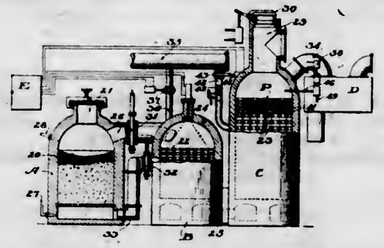
Fig. 6.

1. The inclusion within a gas machine having cyclic operation including making and heating periods, of gas purifying apparatus comprising materials located in the path of the hot gases effective to fix the sulfur in the combustible gas, said materials including at least one substance contained in the group consisting of the metallic elements of the fifth, sixth and seventh groups of the periodic system and their oxides in promoter association with at least one element of the group consisting of copper, silver, iron, nickel, cobalt, lead, tin, antimony and their oxides.

11. In a gas machine having an internally fired generator which has a metallic shell lined with ceramic refractory material, the invention comprising a structure involving sulfur-fixing blocks so designed that refractory lined passages capable of fixing sulfur are developed between the wall of the generator and the shell, said passages communicating with apertures leading into the generator and with a pipe adapted to collect and convey away the gas purified in said passages.

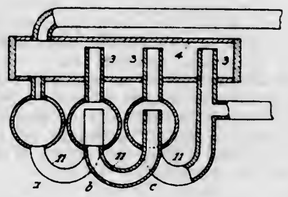
1,947,779
APPARATUS FOR PURIFYING GAS
Wilbert J. Huff, Lloyd Logan, and Oscar W. Lusby, Baltimore, Md., assignors to Wilbert J. Huff, agent
Original application April 25, 1930, Serial No. 447,228. Divided and this application July 17, 1931. Serial No. 551,430
8 Claims. (Cl. 23—260)

1. Gas purifying apparatus comprising a receptacle, purifying materials in said receptacle consisting of refractory materials intimately associated with a chemical containing an element found in the classification first group fifth and seventh series of the periodic table in intimate association with a chemical containing at least one element found in the classification comprising the fourth and twelfth series of the fifth, sixth, and seventh groups of the periodic table, and means for alternately passing combustible gas and an oxygen-containing gas over said materials, and means for automatically regulating the amount of oxygen in said oxygen-containing gas after passing through said purifying materials.



6. Gas purifying apparatus comprising a combustion chamber contained within a shell, said chamber being substantially circular in cross-section, a cylindrical lining of refractory material spaced from said shell to define an annular space between the lining and shell, refractory purifying materials disposed in said annular space and designed to contact with the gas to be purified, a plurality of apertures communicating between said annular space and the interior of said combustion chamber, a conduit communicating with said annular space and adapted alternately to conduct air to and gas from contact with said purifying material, and automatic means for alternately passing air and withdrawing gas from said annular space.

1,947,780
SINGLE EVAPORATOR FOR ABSORPTION MACHINES
Erich Kindermann, Berlin-Reinickendorf-West, Germany, assignor to Deutsche Gasglühlicht-Auer-Gesellschaft mit beschrankter Haftung, Berlin, Germany, a corporation of Germany
Application August 28, 1930, Serial No. 478,496, and in Germany September 3, 1929
1 Claim. (Cl. 62—120.5)

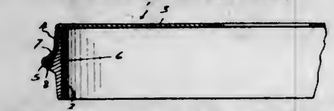


In apparatus of the class described, a plurality of evaporating vessels, and connections for the passage of fluid from one vessel to the next, each of said connections having its inlet at the lower portion of one vessel, and its outlet at the upper portion of the next vessel, the outlets of said connections being at approximately the same level with each other and with the outlet of the entire system formed by said vessels.

1,947,781
PROCESS FOR PRODUCING COLORED COATINGS OF GLASS
Norbert Kreidl, Reitendorf a/Tess, Czechoslovakia
No Drawing. Application November 8, 1929, Serial No. 405,852, and in Czechoslovakia August 7, 1929
3 Claims. (Cl. 49—88)

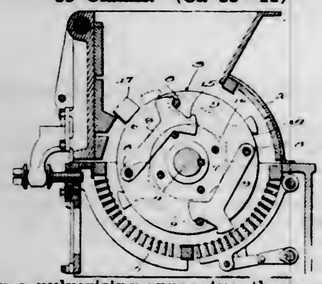
1. Process for producing red colored coatings, patterns, or the like on glasses, comprising applying and then burning on sulphide glasses, compositions containing those copper compounds which are reducible by sulphide glasses.

1,947,782
BRAKE DRUM
Frank H. Lejeune, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a corporation of New York
Application April 11, 1932. Serial No. 604,550
11 Claims. (Cl. 188—218)



1. A brake drum, comprising a body, an annular member connected to said body and an annular brake engaging member molecularly bonded to said annular member.

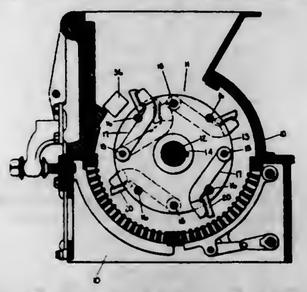
1,947,783
CRUSHING APPARATUS
Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Application May 14, 1929, Serial No. 362,951
Renewed July 30, 1932
35 Claims. (Cl. 83—11)



1. In a pulverizing apparatus, the combination with a rotor, of beaters mounted upon said rotor each comprising an elongated body portion having a pivot bearing at one end and a T-head at the other end adapted when in operative position to engage the material which is to be pulverized, and lugs projecting longitudinally of said beater beyond said head adapted to engage an element of said rotor to limit pivotal movement of said beater as and for the purpose set forth.

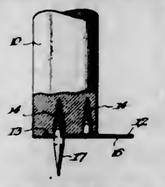
1,947,784
CRUSHING APPARATUS
Walter J. Armstrong, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Application February 25, 1930. Serial No. 431,215
20 Claims. (Cl. 83—11)

1. In a machine of the class described, a rotor body comprising parallel discs spaced longitudinally of the rotor axis and perpendicular thereto, a beater comprising an elongated body portion, a neck portion at the other end of the body portion extending at an angle to the latter, said neck portion being movable between the discs substantially in contact with the opposed surfaces thereof, a socket in the neck portion extending



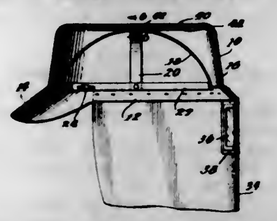
in the plane of said body and neck portions, a separable head portion, and a shank on said head portion engaged in said socket, said head portion having a working face forming an obtuse angle with the body portion and being of less width than the neck portion.

1,947,785
WEED CUTTER
Gaston J. Lipscomb, Montclair, N. J.
Application June 29, 1933. Serial No. 678,280
6 Claims. (Cl. 55—65)



2. A weed cutting implement of the character described comprising a handle, a flat rectangular thin metal cutting blade recessed into the lower end of said handle and secured thereto against relative rotative movement, a plurality of separate and removable fastening means for securely fastening said cutting blade to said handle, one of said fastening means being formed with a pointed end extending beyond the cutting blade and adapted to be inserted in the soil to serve as a pivot about which said blade may be rotated.

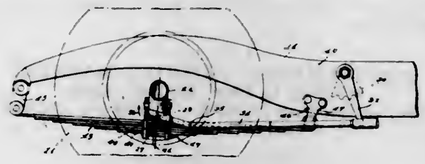
1,947,786
REVERSIBLE HELMET
Henry W. Lueck and Charles H. Davis, Park Ridge, Ill.
Application April 10, 1931. Serial No. 529,008
1 Claim. (Cl. 2—205)



A helmet comprising a relatively rigid crown, a head harness having a disc secured at the top thereof, an annular strip secured to said crown

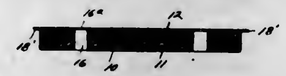
and having a portion extending beneath said disc for rotatably securing said disc to said crown, and a face protecting shield secured to and depending from said crown.

1,947,787
FRONT END CONSTRUCTION
Earle S. MacPherson, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a corporation of Virginia
Application July 25, 1932. Serial No. 624,591
9 Claims. (Cl. 280—87)



1. In a motor vehicle, the combination of a frame, an axle, a spring extending longitudinally of the frame and connected intermediate the ends thereof to said axle, means connecting opposite ends of the spring to the frame permitting restricted movement of said ends longitudinally of the frame, a steering knuckle pivoted to the axle, a wheel mounted on said knuckle, braking means for the wheel, a steering gear carried by the frame, and means connecting said steering gear to the knuckle including a member pivotally connected to said knuckle at a point so positioned with respect to the axis about which the axle tends to rock as the brakes are applied that the reaction of the axle to the braking has no effect upon the steering.

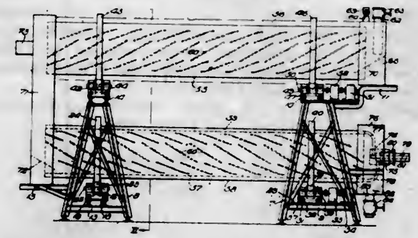
1,947,788
SOUND ABSORBING PANEL
Brouwer D. McIntyre, Monroe, Mich., assignor to Insulation Development Corporation, Monroe, Mich., a corporation of Michigan
Application January 18, 1932. Serial No. 587,435
2 Claims. (Cl. 154—44)



1. A sound absorbing panel comprising an outer covering of vulcanized sheet rubber and a filler of fibrous material, asphalt and powdered rubber, in substantially the proportions of 60% fibrous material and 40% asphalt and powdered rubber.

1,947,789
APPARATUS FOR REMOVING OIL FROM THERMATOMIC CARBON
Carroll Miller, Pittsburgh, Pa., assignor to Thermatomic Carbon Company, Pittsburgh, Pa., a corporation of Delaware
Application November 3, 1930. Serial No. 493,029
6 Claims. (Cl. 263—32)

1. A dryer having a rotatable elongated chamber, a cooling jacket for the walls of said chamber, a spider at one end of said chamber, said spider having a stationary portion providing a conduit for supplying cooling fluid to the cooling jacket and a conduit for discharging fluid therefrom, means for supplying cooling fluid to the



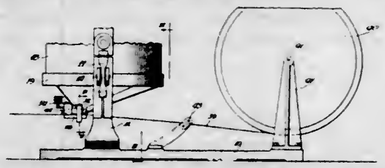
spider, and means for rotating said chamber and spider.

1,947,790
PROCESS FOR MAKING AN INFLAMMABLE COMPOSITION
Hector Menzies Minnice, Eureka, Calif., assignor to Reynolds Metals Company, New York, N. Y., a corporation of Delaware
No Drawing. Application April 21, 1930
Serial No. 446,187
8 Claims. (Cl. 44—7)

1. A composition of matter for use as an inflammable substance consisting of tinder, niter, and tapioca starch made into a solid form.

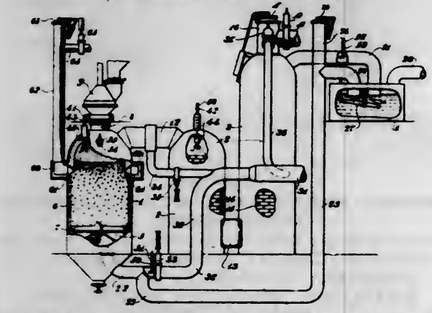
6. A non-flaming combustible for cigar and cigarette lighters, comprising a composition including comminuted particles of carbonized vegetable fibers from which the flame-producing elements have been consumed by combustion, but in which there remain non-flaming combustible elements, and a non-flaming binder, the surface of said mass being readily ignitible by a friction created spark directed thereagainst.

1,947,791
ADHESIVE APPLYING APPARATUS
Charles L. Moyer, Chicago, Ill., assignor, by mesne assignments, to Boston Blacking & Chemical Co., Boston, Mass., a corporation of Massachusetts
Application April 30, 1931. Serial No. 534,046
2 Claims (Cl. 91—43)



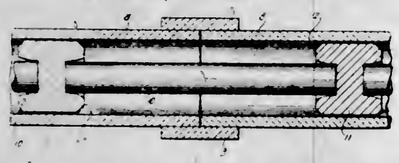
1. In adhesive applying apparatus, the combination of a container for liquid adhesive having an outlet passageway, a guide plate forming the lower wall for said passageway, the rear wall of said container having an entrance slit above said plate for receiving a fabric strip and the side wall of said container adjacent said outlet passageway having slits for receiving the edges of a fabric strip, said slit guiding a fabric strip along the top surface of said plate with its upper side exposed to the adhesive material in said container, and a wiper blade in front of said passageway for spreading a film of adhesive material on said strip as it is drawn along said plate, said side slits being enlarged at their outer ends for the ready passage therethrough of the edge sections of the strip to prevent the retention and accumulation of ravelings in said slits.

1,947,792
PROCESS OF MAKING CARBURETED WATER GAS
Gerald J. Nordmeyer and Thomas W. Stone, Fort Wayne, Ind., assignors to The Koppers Company of Delaware, a corporation of Delaware, and to The Western Gas Construction Company, a corporation of Indiana
Application May 16, 1931. Serial No. 537,968
7 Claims. (Cl. 48—208)



1. The process of manufacturing water gas which consists in alternately introducing an air blast and a steam run into the fuel bed of a gas generator, and admitting heavy oil into the top of the generator simultaneously with the steam run to enrich the resulting gas, said air blast being introduced in a reverse direction into the generator and downwardly through at least the upper portion of the fuel bed to consume carbonaceous deposits resulting from the admission of said heavy oil, and withdrawing the air blast from the generator at a point below the top of the fuel bed.

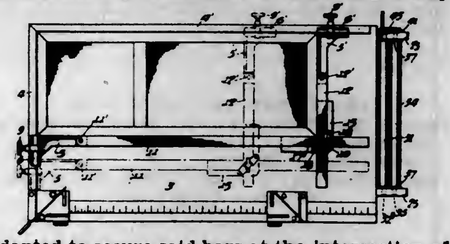
1,947,793
ELECTRIC FURNACE
Fred E. O'Neil and Joseph F. Callahan, Niagara Falls, N. Y., assignors to Acheson Graphite Company, a corporation of New Jersey
Application October 17, 1929. Serial No. 400,327
14 Claims. (Cl. 201—75)



11. A heating element for an electric furnace comprising a sealed carborundum tube, a graphite resistor suspended in a gaseous atmosphere within said tube and an annular graphite support for said resistor secured to said resistor and fitting loosely within said tube, and a material more readily oxidizable than said resistor inserted in the space between said resistor and said tube.

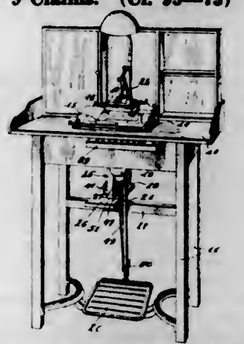
1,947,794
TABLE FOR CONSTRUCTING SCREENS AND THE LIKE
Charles R. Parrish, East Point, Ga.
Application April 27, 1933. Serial No. 668,251
7 Claims. (Cl. 140—109)

1. A table for constructing screens and the like, comprising a bed, guide rails extending from one corner transversely and longitudinally of said bed, corner brackets slidable on said rails, means for clamping said brackets in adjusted position on said rails, guide bars extending from said brackets in intersecting relation, and a floating clamp



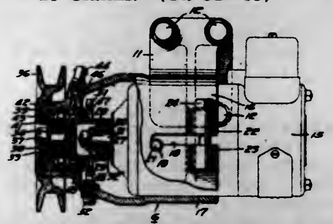
adapted to secure said bars at the intersection of the latter.

1,947,795
PHOTOGRAPHIC PRINTING MACHINE
William L. Post, Detroit, Mich.
Application May 16, 1932. Serial No. 611,654
9 Claims. (Cl. 95—73)



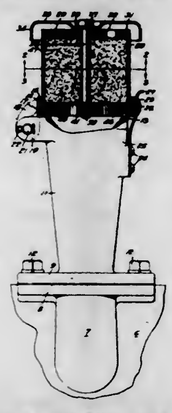
1. A photoprinter having a movable platen, actuating means for the platen, means for exposing a negative including an electrically operated illuminating device arranged in a circuit with a source of electrical energy, a switch in said circuit for making and breaking the same, means operable in timed relation to movement of the platen to its operative position by said actuating means for closing said switch, and means operable independent of the actuation of said platen for automatically opening said switch after a predetermined interval of time has elapsed.

1,947,796
GENERATOR MOUNTING
William H. Radford, San Leandro, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application August 26, 1929. Serial No. 388,328
16 Claims. (Cl. 64—89)



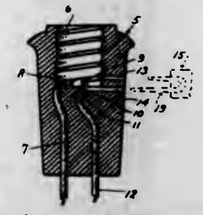
1. A motor, an auxiliary unit having a pinion, a rotatable member driven by said motor, an internal gear secured thereto, a bearing for said member, and a casing attachable to said motor to support and to enclose said bearing, said internal gear and said pinion.

1,947,797
FILLER CAP
William H. Radford, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application February 10, 1930. Serial No. 427,390
Renewed August 31, 1932
7 Claims. (Cl. 183—49)



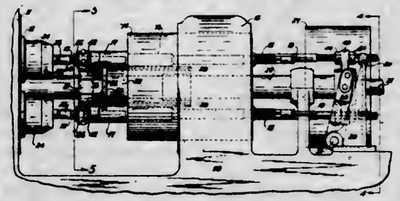
4. A fitting for an oil filler of an engine crankcase comprising spaced covering means having apertures therein for entrance and exit of the fluid passing therethrough to be filtered, a tubular spacer between said covering means providing an outer casing, filtering material in said spacer between said covering means for filtering the fluid, a shield adjacent one of said covering means for preventing entry of large particles of deleterious matter with the fluid, the central portion of said shield engaging said one of said covering means, and means for detachably connecting said shield, said covering means, and said tube as a unitary assembly including a member passing therethrough.

1,947,798
SOCKET STRUCTURE
Ernest G. Reinhardt, Port Jervis, N. Y.
Application June 18, 1932. Serial No. 618,045
1 Claim. (173—346)



In an electrical socket member having a dielectric socket body, having a recess therein, a threaded shell in said recess, a center electrical contact in said recess, said socket being provided with transversely extending spaced bores therein communicating respectively with said shell and the center electrical contact, a short-circuiting plug adapted to be inserted in said body, comprising a dielectric body having the bight portion of a U-shaped contact member secured therein, the extending prongs of the U-shaped contact member being adapted to be inserted in the transversely extending bores in the socket body.

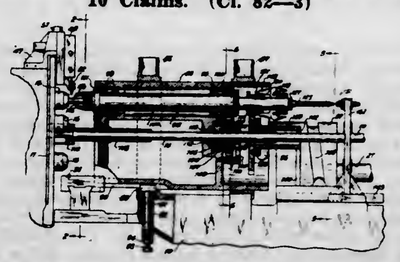
1,947,799
STOCK GAUGE STOP FOR MACHINE TOOLS
Harry W. Rupple, Shaker Heights, Ohio, assignor to The Cleveland Automatic Machine Company, Cleveland, Ohio, a corporation of Ohio
Application September 4, 1931. Serial No. 561,227
12 Claims. (Cl. 82—3)



1. In a machine of the character described, the combination of a frame, a spindle rotatably carried on said frame and adapted to carry a work piece automatically fed therethrough, a member slidably carried by said frame and adapted to carry a tool, means non-rotatably carried by said member adapted to limit the feed of the work piece in said spindle, and means for automatically moving the last mentioned means at predetermined intervals relative to said spindle independent of said member.

12. In a machine of the character described, the combination of a frame, a plurality of work spindles adapted to have work automatically fed therethrough rotatably supported by said frame equally spaced about a common axis, a tool slide supported by said frame adapted to support a plurality of tools in axial alignment with said work spindles, a member slidably supported by said tool slide in axial alignment with said common axis, and means supported by said member adapted to engage and support said tools and projecting in the path of said work pieces thereby limiting the feed of the same through said work spindles.

1,947,800
DOUBLE CHUCK MACHINE TOOL
Harry W. Rupple, Shaker Heights, Ohio, assignor to The Cleveland Automatic Machine Company, Cleveland, Ohio, a corporation of Ohio
Application October 30, 1931. Serial No. 572,005
10 Claims. (Cl. 82—3)

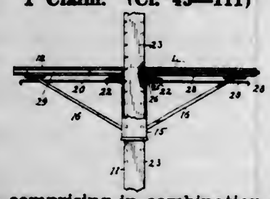


1. In a machine of the character described, the combination of a frame, a plurality of work spindles rotatably supported by said frame, a plurality of tail spindles rotatably supported by said frame in axial alignment with said work spindles, chuck means supported by each of said work and tail spindles at the adjacent ends thereof adapted to engage and support opposite ends of a work blank, means for operating a plurality of said chuck means in predetermined timed relation at predetermined intervals, means for rotating a plurality

of said spindles, and means for supporting a tool adjacent each pair of work and tail spindles.

10. In a machine of the character described, the combination of a frame, a plurality of work spindles rotatably supported by said frame and adapted to have work fed through the center thereof, means for automatically feeding work through the center of said work spindles at predetermined intervals, a tail slide slidably supported by said frame in alignment with said work spindles, means for reciprocating said tail slide towards and from said work spindles in predetermined timed relation to the work feeding operation, a plurality of tail spindles rotatably supported by said tail slide in axial alignment with said work spindles, chucks supported by said work and tail spindles at the adjacent ends thereof adapted to engage and support opposite ends of work, means common to said work spindles for automatically and simultaneously actuating said chucks carried by said work spindles in predetermined timed relation to the work feeding operation, means common to said tail spindles for automatically and simultaneously actuating said chucks carried by said tail spindles in predetermined timed relation to the work feeding operation, means common to said tail spindles for automatically and simultaneously actuating said chucks carried by said tail spindles in predetermined timed relation to the operation of said chucks carried by said work spindles, a plurality of tool supports movably supported by said frame adjacent said spindles, means for automatically and simultaneously moving said tool supports towards and from said spindles in predetermined timed relation to the other operations of the machine, and means for ejecting work from said tail spindles actuated by the movement of said tail spindles toward and from the work spindles.

1,947,801
ADJUSTABLE TABLE
Rufus W. Russell, East Cleveland, Ohio
Application February 16, 1932. Serial No. 593,318
1 Claim. (Cl. 45—111)



A table comprising in combination a supporting base having a single post of non-circular cross-section extending substantially vertically upwardly therefrom, said base being relatively elongated in one direction, a sleeve disposed around and slidable along said post, a substantially flat one-piece table top mounted on said sleeve adjacent the upper end thereof and arranged to permanently extend in a plane which is substantially parallel to the plane of said base, said table top being relatively elongated in one direction, and cooperating locking means on said sleeve and post for retaining said table top at a desired elevation above said base, said sleeve being elongated in the direction of the axis of said post for preventing tilting of the table top and being formed with an opening for said post which corresponds substantially with the post as to size and cross-sectional shape for preventing rotation of the table top relative to the post and thereby retaining the table top with its relatively elongated axis extending in substantially the same direction as the relatively elongated axis of the base.

1,947,802
AUTOMATIC PENCIL
Raoul Sabon, Bordeaux, France
Application February 2, 1933, Serial No. 654,829, and in France February 8, 1932
6 Claims. (Cl. 120—17)



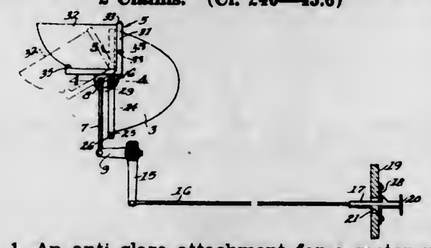
2. In an automatic lead pencil, a pencil body, a hand operable lead container axially movable in said body, a loose lead clamp, a tube for controlling the clamping action of said clamp, a return spring adapted to urge said tube rearwardly, a lateral notch in said clamp, a corresponding lateral notch in said tube, of greater length than the former, a transverse stop member secured to said body and engaging said notches and means for connecting said lead container with said tube.

1,947,803
WINDSHIELD WIPER
Edgar F. Sandman, Willoughby, Ohio
Application March 24, 1931. Serial No. 525,005
3 Claims. (Cl. 15—250)



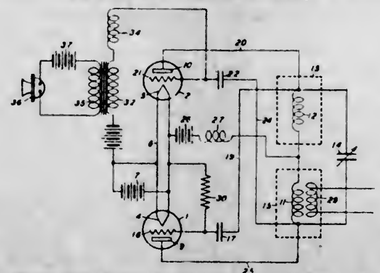
1. A windshield wiper comprising an elongated heat conducting body having an extension projecting longitudinally thereof terminating in a flat heating and wiping surface and constituting a support, the extension having an external groove extending peripherally therearound for detachably receiving in position a wiping member, intermediate the heating surface and the windshield, the said flat surface of the extension being adapted to closely engage the windshield when the wiper is removed

1,947,804
ANTIGLARE DEVICE FOR MOTOR VEHICLE HEADLIGHTS
Charles Schlared, Columbus, Ohio, assignor of one-half to Adolphus Viney, Columbus, Ohio
Application November 11, 1932. Serial No. 642,262
2 Claims. (Cl. 240—45.6)



1. An anti-glare attachment for a motor vehicle head lamp, comprising a frame pivotally carried by said head lamp, said frame including an arcuate portion, extending over the top of the lamp, and side portions projecting forward of the lamp at the sides thereof, said frame portions being channel shaped, an arcuate transparent visor extending forward of the lamp and having its rear and side edges received within the channels of said frame portions, and means extending through the side walls of said channels for clampingly holding the edges of the visor to said frame, said visor and frame being capable of downwardly tilting movement to obstruct light rays issuing from the uper portion of said head lamp.

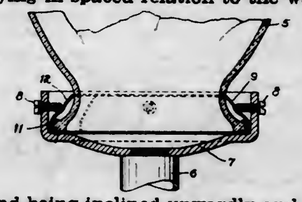
1,947,805
MODULATED OSCILLATOR
Philip F. Scofield, Palo Alto, Calif., assignor to Heintz & Kaufman, Ltd., San Francisco, Calif., a corporation of Nevada
Application May 31, 1932. Serial No. 614,479
13 Claims. (Cl. 179—171)



4. A modulated oscillator comprising a pair of tubes each having a control electrode and an anode, a resonant circuit connecting the anodes of said tubes, a connection including a blocking condenser from the control electrode of each of said tubes to the anode of the other tube, means for applying a modulating frequency potential to the control electrode of one of said tubes, and a resistor connected to bias the control electrode of the other tube.

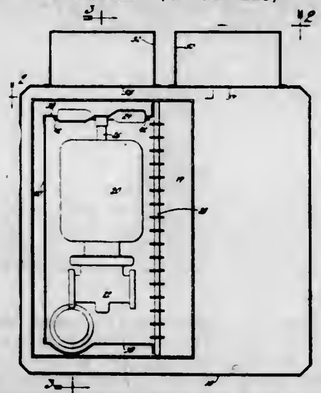
1,947,806
LAMP GLOBE FITTING
John C. Smith, Beaver, Pa., assignor of one-half to Phoenix Glass Company, Monaca, Pa., a corporation of West Virginia
Application January 26, 1932. Serial No. 588,892
1 Claim. (Cl. 240—135)

A holding member for globes and the like, comprising a metallic collar having its upper edge of restricted diameter for engagement with the side wall of a globe, and having its lower end inturned to form a flange for engagement with the extremity of the globe, that portion of the collar intermediate its upper edge and the said flange lying in spaced relation to the wall of the



globe, and being inclined upwardly and inwardly from the lowermost extremity of the globe, whereby it may engage the globe along a circumferential line of restricted diameter, and a clamping device for exerting inward pressure on the intermediate portion of the collar.

1,947,807
REFRIGERATOR CONSTRUCTION
Russell T. Smith, Greenville, Mich., assignor to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan
Application March 16, 1931. Serial No. 522,797
4 Claims. (Cl. 62—116)

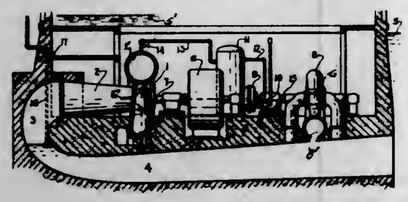


1. In combination with a refrigerator cabinet having a motor-compressor-fan unit on the top wall thereof, a condenser also on the top wall of the cabinet and comprising pipes in a vertical row whose plane is substantially parallel to the axis of the fan and substantially perpendicular to the wall, a casing surrounding and covering the unit and the condenser and having an air inlet on its rear wall and on that side of the condenser remote from the unit, and having an air outlet on its rear wall near the discharge path of the fan, a relatively long conduit for leading air to said inlet and a relatively short conduit for leading air from said outlet.

1,947,808
APPARATUS FOR CONTROLLING PUMP AND TURBINE OPERATIONS
Charles B. Spellman, Collingswood, N. J., assignor to I. P. Morris & De La Vergne, Incorporated, a corporation of Delaware
Application March 30, 1931. Serial No. 526,284
8 Claims. (Cl. 253—117)

1. A power-accumulation system comprising, in combination, a turbine having gates and a

runner passage connected to tailwater with the turbine runner normally disposed below the tailwater level, a pump, a motor-generator commonly connected to the pump and turbine runners, and means adapted upon closure of said gates for expelling water from the turbine run-



ner passage during pump operation, including a pressure fluid receiver connected to the turbine runner passage and a high pressure air pump connected to said receiver for creating therein a source of pressure fluid adapted to be discharged into the turbine runner passage to expel the water therein.

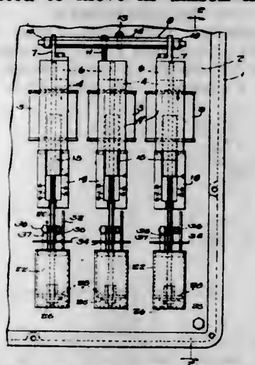
1,947,809
MINER'S COMPASS OR DIP NEEDLE
William F. Sprengnether, St. Louis, Mo.
Application April 10, 1933. Serial No. 665,245
4 Claims. (Cl. 33—222)



1. A compass comprising a casing having a transparent arcuate wall portion, a shaft mounted in said casing, the rotation axis of said shaft lying on the center of the arc defining said wall portion, a magnetic cross-arm fixed to said shaft, a pointer arm relatively fixed to the shaft and angularly spaced from the magnetic arm, and an arcuate degree scale parallel to said transparent wall portion, the outer end of said pointer arm being disposed in close proximity to the scale.

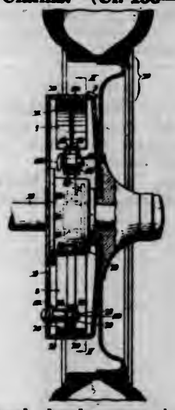
1,947,810
DASHPOT
James H. Starr, Oak Park, Ill., assignor to Electrical Engineers Equipment Company, Melrose Park, Ill., a corporation of Illinois
Original application October 20, 1928, Serial No. 313,729. Divided and this application January 24, 1930, Serial No. 423,101. Renewed July 14, 1933
10 Claims. (Cl. 188—96)

1. A quick resetting dash-pot comprising a fluid containing cylinder, a piston including two discs having registrable by-passes therein, one of said discs being of a smaller diameter than the other disc, a piston rod secured to the smaller one of said discs, the other of said discs being slidably mounted on said piston rod and resting freely upon said secured disc, said discs being adapted to move in unison in checking



direction and adapted to be separated in resetting direction.

1,947,811
BRAKE
Raphael Stein, Philadelphia, Pa., assignor of one-half to David T. Berlinheimer, Philadelphia, Pa.
Application May 8, 1931. Serial No. 535,869
16 Claims. (Cl. 188—78)

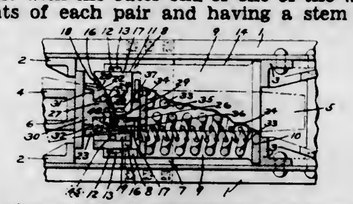


1. In a wheel brake, a circumferentially-flanged drum rotative with the wheel; a pair of cooperative wedge shoes jointly conforming with the braking surface of said drum and partially interlapping on a substantial curvature eccentric to the wheel axis; and actuating means for concurrently rotatably shifting the shoes eccentrically endwise to effect brake application.

1,947,812
FRICTION DRAFT GEAR
Roy R. Stevens, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application January 29, 1930. Serial No. 424,202
2 Claims. (Cl. 213—24)

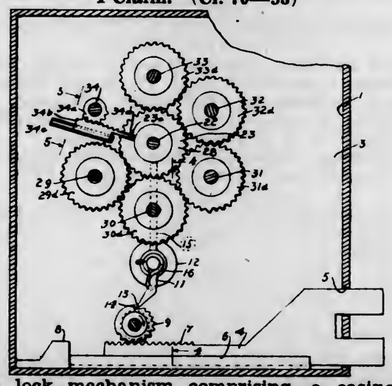
2. In a draft gear, in combination, a chambered follower, a longitudinally apertured friction block within the open end of the follower and anchored thereto against longitudinal movement and having lateral friction faces, cooperating wedge elements interposed between and frictionally engaging the side walls of the follower

and of the friction block, a thrust member engageable with the outer end of one of the wedge elements of each pair and having a stem pro-



jecting through the friction block, and independent spring means opposing the advance of the wedge elements and of the thrust member.

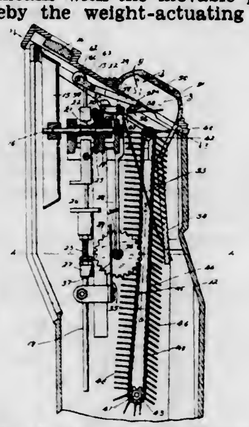
1,947,813
LOCK
James E. Theriot, San Jose, Calif.
Application April 18, 1933. Serial No. 666,636
1 Claim. (Cl. 70—53)



A lock mechanism comprising, a casing, a locking element adjustably mounted therein, adjusting means for the element, means normally engaging the adjusting means to lock the same against movement, and means for actuating the locking means to release the adjusting means, said means comprising, a disc rotatably mounted in the casing wall, a plurality of axially aligned toothed wheels mounted on the axis of the disc and within the casing, toothed wheels rotatably mounted on the disc and each meshing with one of the first mentioned toothed wheels, an exteriorly accessible actuating knob for each of the second mentioned toothed wheels, each knob having an annular row of indicia displayed thereon, the casing having an annular row of indicia displayed thereon and encompassing the several knobs, and an additional knob similarly disposed on the disc and having means disposed within the casing for engaging all of the first mentioned toothed wheels and disposed to release the locking means when so engaged, the said first mentioned toothed wheels having alignable slots formed therein to receive said last mentioned means.

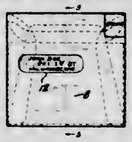
1,947,814
DISPLAY MECHANISM
Hughes C. Turner and Howard Roy Stacks, Detroit, Mich.; said Stacks assignor to said Turner
Application December 24, 1931. Serial No. 582,921
10 Claims. (Cl. 40—28)

1. In a card display mechanism, in combination with an endless chain, a plurality of display cards hingedly connected thereto in spaced relation to one another, means operatively engageable with said chain whereby it and its supported series of cards are moved a predetermined distance past a selected observation point, means operatively connecting said last mentioned means with the movable parts of a scale, whereby the weight-actuating operation



thereof and of the chain-advancing means is contemporaneously effected, coin-operated means whereby the unauthorized operation of the entire mechanism is controlled, and a pivoted shutter operatively connected with certain of said recited parts whereby a view of the otherwise exposed dislay cards is made contingent upon the orderly operation of the mechanism.

1,947,815
ENVELOPE
Elijah G. Vallier, Wauwatosa, Wis., assignor to Western States Envelope Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 11, 1933. Serial No. 651,065
9 Claims. (Cl. 229—71)

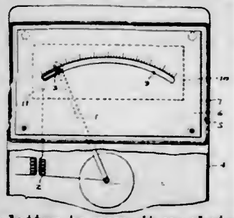


1. An envelope comprising a main section having a window therein, side flaps having portions spaced from one another to expose the inner side of the main section of the envelope, means extending transversely of the envelope and having its upper edge portion secured to the exposed inner side of the main section between the side flaps to serve as a stop and thereby cause proper registration of an insert with the envelope window, and means for closing the envelope.

1,947,816
RECORDING DEVICE FOR METERS
Griffin G. Waite and George W. Lawrence, Toronto, Ontario, Canada, assignors to Sangamo Company Limited, Toronto, Ontario, Canada
Application March 24, 1933. Serial No. 662,429
5 Claims. (Cl. 234—1.5)

1. In a recording device for meters, a member operated by the meter in response to the value measured, a sheet of metal foil arranged adja-

cent to said member, an electrode carried by said meter operated member and penetrating said metal foil and fusing an advance path



through the latter to permit unobstructed movement of the meter operated member, said electrode being free of frictional contact with any retarding element.

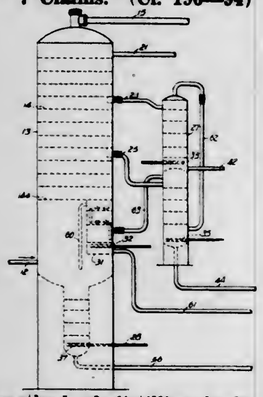
1,947,817

METHOD FOR FRACTIONATING VAPORS

John S. Wallis, New York, N. Y., assignor to Alco Products, Incorporated, New York, N. Y., a corporation of Delaware

Application February 4, 1932. Serial No. 590,873

7 Claims. (Cl. 196—94)



1. The method of distilling hydrocarbon oils which includes the steps of heating a hydrocarbon oil, separating vapors from unvaporized oil, passing said vapors countercurrent to and in contact with reflux oil in a fractionating zone, withdrawing an intermediate fraction of the reflux oil from said fractionating zone, stripping the same of its lighter constituents in an external stripping zone, stripping the heaviest reflux oil fraction with steam in an internal stripping zone separate from said unvaporized oil while permitting the steam and evolved vapors from said internal stripping step to enter the fractionating zone.

1,947,818

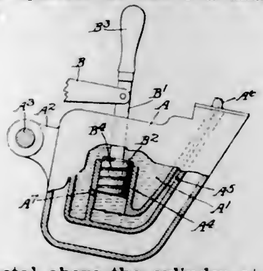
PUMP FOR PUMPING MOLTEN METAL

George Herbert White, Philadelphia, Pa., assignor to Patent Product Corporation of Chicago, a corporation of Delaware

Application July 7, 1930. Serial No. 465,912

1 Claim. (Cl. 22—70)

In combination, a melting pot, a cylinder projecting upwardly from the bottom of the pot and adapted to be entirely immersed in the molten metal, a cylindrical opening at the top, an intake port through the wall of the cylinder adjacent the bottom of the pot, a piston adapted to reciprocate in the cylinder, a tortuous passage bounded by the cylinder and the piston communicating with the space beneath the piston within the cylinder at one end and with the



body of metal above the cylinder at the other end, the edges of the walls bounding the tortuous passage being sharp.

1,947,819

ALKOXY-2-HYDROXYNAPHTHALENE-3-CARBOXYLIC ACIDS

Arthur Zitscher, Offenbach-on-the-Main, Hans Mildner, Leverkusen-I. G. Werk, and Wilhelm Luce, Hofheim-on-the-Taunus, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 17, 1931, Serial No. 551,554, and in Germany August 1, 1930

5 Claims. (Cl. 260—111)

1. As new products, the alkoxy-2-hydroxynaphthalene-3-carboxylic acids of the general formula:



wherein the alkoxy group stands in the non-carboxylated nucleus, said compounds being easily soluble in alkalies and giving in an aqueous solution a blue color with ferric chloride.

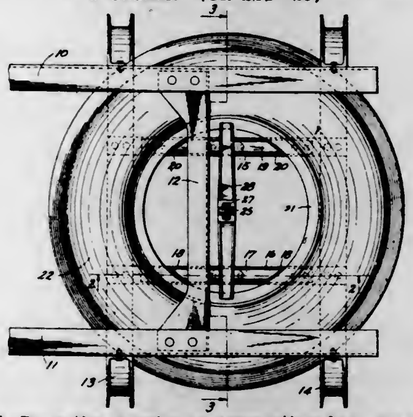
1,947,820

TIRE CARRIER

Frank G. Alborn, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a corporation of Ohio

Application December 23, 1929. Serial No. 415,898

8 Claims. (Cl. 224—29)



1. In a tire carrier, a supporting bar, means for mounting the same on a vehicle, a strip

carried by said bar and having a main portion thereof substantially parallel to said bar portions of said strip being bent along oppositely inclined diagonal lines to form rim engaging shoulders.

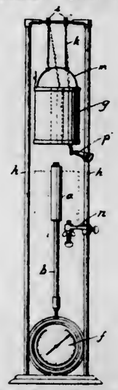
1,947,821

APPARATUS FOR DETERMINING CRITICAL PRESSURES

Gellert Alleman, Wallingford, and Augustine Francis Stephen Musante, Media, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application May 31, 1932. Serial No. 614,498

7 Claims. (Cl. 73—151)



7. An apparatus for determining the critical pressure of a substance having a known critical pressure, which comprises a cylinder for containing the substance whose critical pressure is to be determined, an annular heating unit adapted to surround and transfer heat to the cylinder and the substance contained therein and which is movable in the direction of longitudinal extension of the cylinder into and out of heat transfer relation therewith, a device connected with the cylinder and adapted to indicate the temperature of the substance therein being heated, and a pressure registering gauge in communication with the interior of the cylinder, whereby when the substance being heated reaches its known critical temperature as indicated by the temperature indicating device, the critical pressure of the substance may be determined by inspection of the pressure registering gauge.

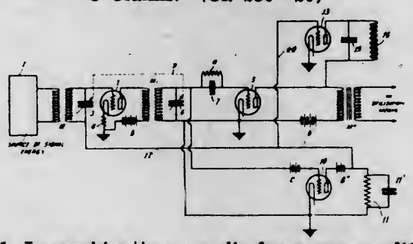
1,947,822

AUTOMATIC TONE CONTROL

William S. Barden, Stapleton, Staten Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application April 15, 1931. Serial No. 530,268

8 Claims. (Cl. 250—20)



1. In combination, a radio frequency amplifier stage including an electron discharge tube, a detector stage including a space discharge tube having its input electrodes coupled to the output electrodes of the amplifier tube, a gain control circuit including a space discharge tube having its input electrodes coupled to the input circuit of the detector tube, means connecting the grid circuit of said amplifier tube to the output circuit of said gain control tube, an attenuation circuit including a space discharge tube having its grid circuit connected to the output circuit of said gain control tube, a path of low impedance to relatively high audio frequencies between the anode circuit of said attenuation tube and the anode circuit of said detector tube, and a path of high impedance to said audio frequencies in shunt with said first path.

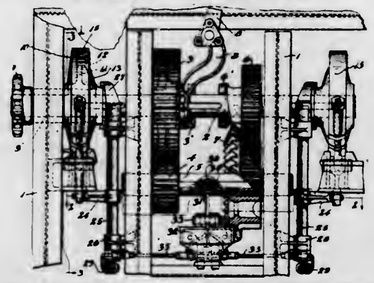
1,947,823

CRANE DRIVING AND STEERING MECHANISM

Harold E. Brey, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation

Application August 3, 1925. Serial No. 47,985

6 Claims. (Cl. 180—9.2)



1. In controlling and driving mechanism of cranes for excavating purposes, in combination, a traction frame, excavating means carried thereby traction device operating gears carried by said frame, a traction shaft on which said gears are mounted, means for operating the traction shaft constantly to turn the same in either direction, means for clutching said operating gears to the driving shaft, brake means for said operating gears, means for applying said brake means to render the same equally effective in relation to the operating gears when the latter are turning in either of their opposite directions of movement, and connections whereby when the operating gears are unclutched relatively to the traction shaft the brake means may be simultaneously rendered effective, whereby the crane may be held positively against movement while its excavating means are digging.

1,947,824

RUNNING BOARD STRUCTURE

Budd Bronson, Cleveland, Ohio, assignor to The Ohio Rubber Company, Cleveland, Ohio, a corporation of Ohio

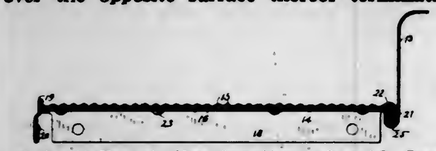
Application June 9, 1930. Serial No. 460,007

Renewed July 2, 1932

4 Claims. (Cl. 280—169)

1. In a structure of the character described the combination of a vehicle portion having a channel-like recess therein, a running board comprising a metallic base having a top and an angularly disposed flange extending into said recess, and a non-metallic tread intimately and uniformly attached to said top and to said flange, said tread being extended over one sur-

face of said flange, around its free edge, and over the opposite surface thereof terminating



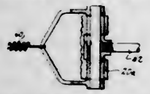
substantially at the junction of said flange with said top.

1,947,825
MEDICINE SHELF RACK
Shirley Victor Brooks, East Orange, N. J., assignor to Franklin-Williams, Inc., a corporation of New Jersey
Application November 2, 1931, Serial No. 572,656
Renewed June 29, 1933
1 Claim. (Cl. 211—86)



A sub-shelf for application to the edge of a principal shelf consisting of a plate of sheet metal having an edge portion bent back over the body thereof and adapted to engage over the forward edge of the principal shelf, said plate having an intermediate portion depending below the principal shelf at a point spaced behind the forward edge thereof and provided with an angularly disposed ledge portion, said ledge portion having apertures provided with edges adapted to engage the side surfaces of articles applied to the sub-shelf.

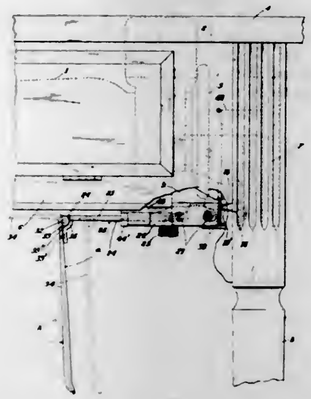
1,947,826
BRAKE MECHANISM
John D. Campbell, Tustin, Calif., assignor to Jay-Dee Manufacturing Co., Ltd., Tustin, Calif., a corporation of California
Application July 15, 1930. Serial No. 468,041
9 Claims. (Cl. 188—77)



3. A brake embodying the combination of a drum and a band with two ends, a connective element flexibly mounted on one end of the band and bodily movable with said band around the drum, anchoring means yieldingly restraining said band and connective element against such rotation, a swinging arm having a pivot mounting on said connective element, a connection between the swinging end of said arm and the other end of said band, a cam having a pivotal mounting also on said connective element and arranged for operation of said swinging arm, and cam operating means embodying a lever pivotally mounted on said connective element.

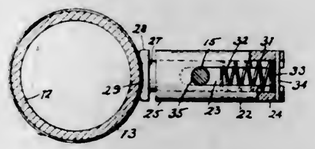
1,947,827
KNEE-CONTROL MECHANISM FOR ELECTRIC SEWING MACHINES
Daniel H. Chasen, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 25, 1932. Serial No. 619,203
8 Claims. (Cl. 45—27)

1. The combination with a drop-head sewing machine table adapted in use to rest upon the floor, said table having a table-top and side-wall members defining a cavity into which the sewing machine may be dropped when not in use, of an electric sewing machine motor-controller mounted in a fixed position within the cavity of said table and including a movable control element, a guide mounted on said table separately from and



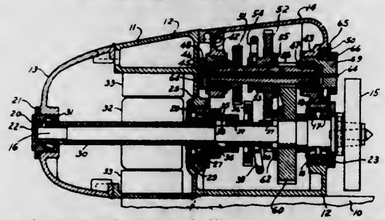
independently of said controller at a level above the normal position of the operator's knee, said guide having a guideway disposed substantially parallel to the front wall of the table, a slide mounted in said guide and connected to the movable control element of said controller, and a knee-extension depending from said slide to a position alongside the operator's knee.

1,947,828
VARIABLE RESISTANCE DEVICE
Arthur O. Codney, Cleveland Heights, and David J. Somerville, South Euclid, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application December 24, 1931
Serial No. 583,016
7 Claims. (Cl. 201—62)



1. In a contact device for a resistance element, the combination of an elongated guide bar adjacent said element, a body mounted on said guide bar for sliding movement along the latter, said body being elongated and arranged to extend transversely of the guide bar with the ends of the body extending in opposite directions from said guide bar, movable contact means associated with one of the ends of said body including an actuating portion extending transversely of said guide bar, and a spring associated with the other end of said body and engaging said actuating portion, said spring being effective for frictionally pressing said body against said guide and for yieldingly pressing said contact means against said resistance element.

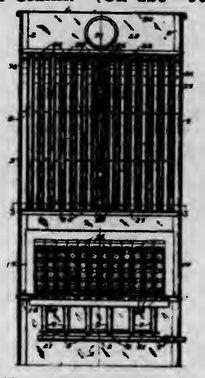
1,947,829
LATHE DRIVE
Lyndon C. Cole, Hamilton, Ohio, assignor to General Machinery Corporation, Hamilton, Ohio, a corporation of Delaware
Application December 2, 1930. Serial No. 499,525
9 Claims. (Cl. 82—28)



1. A headstock for a lathe comprising a spindle, a sleeve rotatably supported in spaced relation to said spindle and provided with a spline member, a motor for driving said sleeve, a gear rotatably and slidably mounted on said spindle and provided with a cooperating spline member, and means establishing a direct driving connection from said motor to said spindle, comprising an additional gear fixed on said spindle and provided with clutch teeth adapted to engage the teeth of said first mentioned gear in one position of the latter.

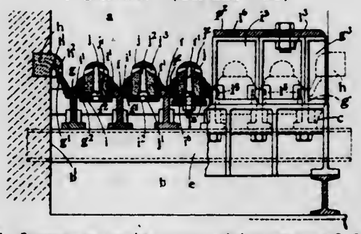
9. In a lathe, a main supporting bed frame, a headstock comprising a symmetrical housing having its base supported on said frame, a spindle rotatably supported in said housing substantially below the center thereof, a motor within said housing in alignment with the spindle, a countershaft supported in said housing above said spindle and above the center of said housing, change speed gearing carried by said countershaft providing a driving connection from the motor to the spindle, means establishing a direct driving connection from said motor to said spindle, and an eccentric mounting for said countershaft to provide for disengagement of said change speed gearing when said direct driving connection is established.

1,947,830
GAS HEATER
Robert F. Cuyler, Athens, and Frank M. Hartford, Columbus, Ohio, assignors to Ray-Glo Corporation, Athens, Ohio, a corporation of Ohio
Application December 6, 1930. Serial No. 500,584
Renewed December 28, 1933
1 Claim. (Cl. 126—90)



In combination with a gas heater of the radiant glower type, wherein the heater compartment is left open at its upper end, a casing closing the upper end of said compartment, said casing including upper and lower walls formed with registering openings, inwardly directed marginal ribs formed around said openings, a plurality of parallel flattened tubes arranged between said walls and positioned upon said ribs, said ribs serving to align the tubes in registration with said openings and to space the same relative to one another and from the side walls of said casing, a header situated above said casing for collecting the gases passing through said tubes, the front and rear walls of said casing being provided with openings for the passage of air over the exterior surfaces of said tubes, and curved baffle plates arranged between said tubes for directing the air passing through said openings towards the front of said casing.

1,947,831
FURNACE GRATE
Thomas Malcolm Davidson, Hatch End, England
Application May 27, 1931, Serial No. 540,431, and in Great Britain May 28, 1930
7 Claims. (Cl. 110—38)



1. A furnace grate, comprising spaced longitudinal bearer members, grate bar elements of hollow section interposed between and supported upon said bearer members, and bricks of refractory material seated within the said grate bar elements, the grate bar elements, refractory bricks and bearer members together forming an unbroken surface for the support of the fuel, and the grate bar elements being provided with openings for the passage of air from below the grate to the under side of the bricks and the bricks being provided with outlet passages for the air opening laterally above the grate bar elements and connected with the under side of the bricks.

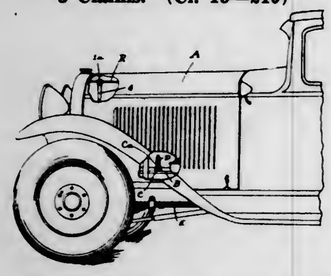
1,947,832
FASTENING DEVICE FOR SECURING THE HEAD OF A HAMMER, HATCHET, OR THE LIKE
George E. Dobbins, Philadelphia, Pa.
Application June 18, 1932. Serial No. 617,935
3 Claims. (Cl. 306—33)



3. A fastening device for securing the head of a hammer or similar tool to the handle or stock thereof, comprising an elongated body portion adapted to engage a seat in the outer, head-supporting end of said handle, oppositely disposed

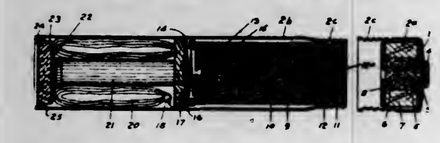
lugs at the outer end of said body portion, adapted to straddle the outer face of the head of such tool and the outer end of said handle, a wedge carried by one of said lugs substantially parallel to and spaced from said body portion and adapted to be driven into the outer end of said handle, and means for preventing movement of said fastening device with respect to said handle comprising an engaging device passing through said body portion and said handle.

1,947,833
OIL DEPTH GAUGE-ROD WIPER AND CLOSURE THEREFOR
Charles M. Dolbier, Kingfield, Maine, assignor to Cathers D. Lander, Kingfield, Maine
Application April 24, 1933. Serial No. 667,592
3 Claims. (Cl. 15—210)



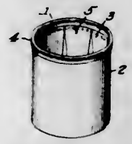
1. A wiper adapted for use on the oil depth gauge-rod of a motor vehicle engine comprising a thin, flat metallic member bent to form a circular head portion, two legs extending from and relatively disposed at an outwardly flaring angle from said head portion, said legs being susceptible of swinging inwardly, or toward each other, a lug projecting from each of said leg portions, at the outer ends thereof providing thumb and finger holds for manually bringing the legs into close embrace of the depth gauge rod, a compressible liner element on the inner faces of said leg portions and continuing around the inside of said head portion, and a closure tube having one closed end adapted to be mounted over said leg portions when closed together whereby a contraction of said head portion may be procured.

1,947,834
FLARE SIGNAL
Louis L. Driggs, Jr., Tippecanoe City, Ohio, and Henry B. Faber, New York, N. Y.
Application September 19, 1931
Serial No. 563,856
23 Claims. (Cl. 102—24)



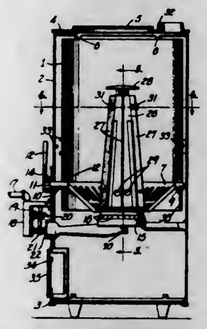
7. In combination in a flare of a one-piece drawn aluminum case, a detachable metallic closure for the open end thereof, a fuse mounted in the base thereof, an expelling charge in the base thereof, and a case mounted therein of pyrotechnics exposed to the powder charge and held between the base of the shell and the closure therefor, and a relatively short cartridge case yieldingly engaging a portion of the side walls of the shell, the base of said cartridge case spaced from the base of the shell, a firing cap in the base of the cartridge case, and a propelling charge contained therein in engagement with the firing cap and the shell fuse.

1,947,835
GARBAGE CAN LINING
Leland A. Dubbs, Los Angeles, Calif.
Application January 7, 1930. Serial No. 419,085
1 Claim. (Cl. 220—65)



A garbage can comprising an outer receptacle, an upper ring retaining member having a cutting edge, a number of separately removable linings positioned in said receptacle, a pull wire extending around the entire outer circumference and near the top of each of said linings, one end permanently attached to said lining, while the other end is loose and protrudes to the inside of said lining, whereby when the wire is pulled the lining is lifted and drawn against the cutting edge of the retaining member and thereby removed from the container.

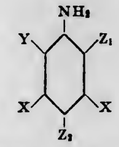
1,947,836
INCINERATOR
John G. Fahlstrom, Kansas City, Mo.
Application December 26, 1931
Serial No. 583,217
8 Claims. (Cl. 110—18)



1. An incinerator comprising in combination an imperforate shell, grates closing the lower portion of said shell and having an opening centrally thereof, a burner adapted to burn gaseous fuel positioned in said opening, said burner including an annular ring-shaped portion provided with jets, and an elongated vertical portion provided with peripheral jets, a baffle in the form of a cone surrounding said vertical portion of the burner, said conical baffle being truncated to form an aperture, a baffle extending in a plane parallel to and spaced from the plane of truncation, said baffle being provided with supporting means adapted to be removably seated in said aperature, a jet at the upper extremity of and extending axially of said vertical burner portion adapted to direct a flame against said spaced baffle.

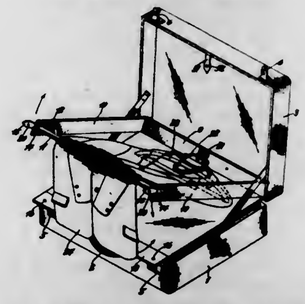
1,947,837
NEW ANILINE-SULPHONIC ACIDS
Erich Fischer, Bad Soden-on-the-Taunus, and Albert Kissling and Herbert Kracker, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application March 27, 1931, Serial No. 525,864, and in Germany April 4, 1930
6 Claims. (Cl. 260—129)

3. The compounds of the following general formula:



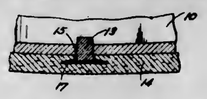
wherein the X's stand for Cl or CH_3, Y stands for hydrogen or CH_3, Z_1 means SO_3H and Z_2 a substituent of the group consisting of Cl, CH_3, SO_3H and COOH, or Z_1 represents a substituent of the group consisting of Br, CH_3 and O-CH_3, and Z_2 means SO_3H, said products forming crystalline powders, soluble in water.

1,947,838
WARDROBE SUITCASE
Albert Fiss, St. Louis, Mo.
Application April 27, 1931. Serial No. 533,098
19 Claims. (Cl. 190—41)



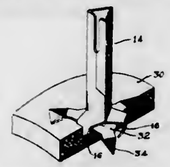
1. In a wardrobe suit case, a series of walls forming a compartment, an element connected with said compartment for supporting garments, a bar extending across said compartment and spaced from one of said walls in position to permit the garments to be folded around said bar, and means pivotally connecting said compartment with the rear of the suit case.

1,947,839
BRAKE SHOES AND METHOD OF ATTACHING LINING TO THE SAME
Grant W. Fissell, Cleveland, Ohio, assignor of one-half to Perry H. Stevens, Akron, Ohio
Application June 11, 1932. Serial No. 616,683
8 Claims. (Cl. 29—152.1)



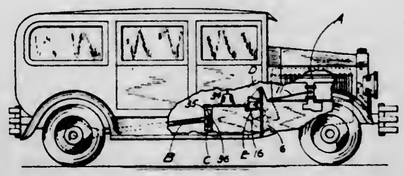
1. The method of applying brake lining upon a brake shoe which comprises forming recesses in the brake lining material at points coincident with apertures in the brake shoe, assembling the headed portions of rivets therein the heads of said rivets being circumferentially deformable under the application of compressive effort, inserting the end portions of the shanks of the rivets into the respective apertures in the brake shoe, the major portion of the body of the shank of said rivet being proportioned relative to the apertures to effect a driving fit therein and applying compressive effort upon the outer surface of the brake lining to force the shank of the rivets within the apertures and to flatten the heads of the rivets within the brake lining material.

1,947,840
TOP LIFT ATTACHMENT
James F. Fitzsimmons, Belmont, Mass., assignor to Fitz-On Sales Corporation, Boston, Mass., a corporation of Massachusetts
Application September 13, 1932
Serial No. 632,938
2 Claims. (Cl. 36—36)



1. An attachment for top lifts or the like comprising a tubular post having offset holding lugs at one end, and a plate surrounding the post and having similar holding lugs which extend between the lugs of the post when the plate and post are in assembled relation, the two sets of lugs cooperating for the retention of a top lift.

1,947,841
FLUID PRESSURE ACTUATED BRAKE
Frederick G. Folberth and William M. Folberth, Cleveland, Ohio
Application September 27, 1929
Serial No. 395,548
22 Claims. (Cl. 192—13)

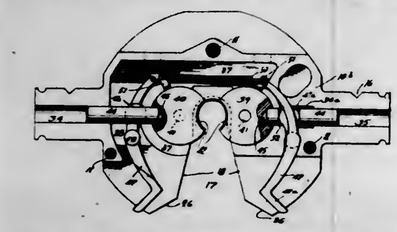


1. In mechanism of the class described, the combination, with a brake and a clutch operating member, of resilient operating connections between the brake and clutch operating members, said connections including means for delaying the application of the brake incident to operation of the clutch operating member.

1,947,842
ELEVATOR
Kenneth D. Fuller, deceased, late of Huntington Beach, Calif., by Robert E. Hickerson, administrator, Huntington Beach, Calif., assignor to R. E. Hickerson
Application October 1, 1932. Serial No. 635,752
20 Claims. (Cl. 294—91)

1. In a rod elevator, the combination comprising, a body, means for locking a rod within the body, said means being movable to rod locking po-

sition by engagement with a rod, means for releasing said rod locking means for movement to rod releasing position, and means for thrusting said rod locking means, when released, against the rod, the last mentioned means including a spring



acting to thrust the locking means against the rod and maintained under predetermined tensional condition when the locking means is in rod releasing position and under substantially the same tensional condition when the locking means is in rod locking position.

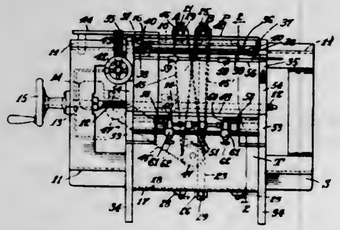
1,947,843

APPARATUS FOR TRIMMING AND GROOVING ELECTROTYPE PLATES AND THE LIKE

Otto E. H. Ganskow, Berlin, Germany

Application December 28, 1931, Serial No. 583,418, and in Germany December 29, 1930

19 Claims. (Cl. 29—21)



1. In means for trimming and grooving electrotype and like plates, a standard, a pair of cutters one juxtaposed relative to the other, and a plate supporting table mounted on the standard, one of which is adjustable relative to the other, one of said cutters being supported to rotate in fixed position and adapted to normally engage and trim a marginal portion from a plate on the plate support and the other a plate grooving cutter, an adjustable support for said latter cutter to move the cutter into and out of engagement with the plate on the table and normally urged to position the cutter out of engagement with the plate, and means to effect adjustment of said support to move the grooving cutter into and out of engagement with and groove a predetermined portion of the plate while the trimming cutter is in operative engagement with and trimming a marginal portion from the plate in advance of said grooving cutter.

1,947,844

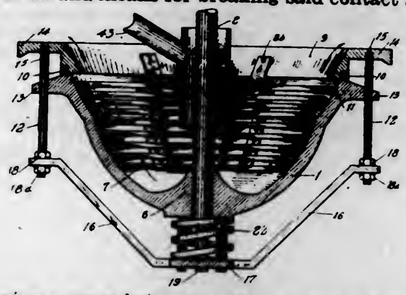
BOWL SEPARATOR

Chase E. Gish, Denver, Colo.

Application March 23, 1931. Serial No. 524,541

19 Claims. (Cl. 233—27)

1. In a centrifugal separator, a rotatable flare-sided bowl, rings normally contacting with the inner surface of the bowl and forming riffles thereon and means for breaking said contact and



leaving a space between said rings and the inner surface of the bowl.

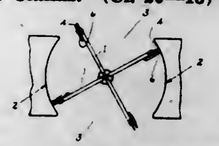
1,947,845

BRAKE FOR REVOLVING DOORS

John Harry Graham, Pittsburgh, Pa.

Application March 11, 1932. Serial No. 598,190

2 Claims. (Cl. 20—18)



1. In combination with the vane of a revolving door equipped at the edge with a flexible weather strip, a keeper, a block of elastic material movable within the keeper in a direction transverse to the edge of the vane, a spring arranged within the keeper and engaging the block and tending to project the block outwardly across the edge of the door, and adjustable means for holding said block in position relative to the keeper with the spring under tension.

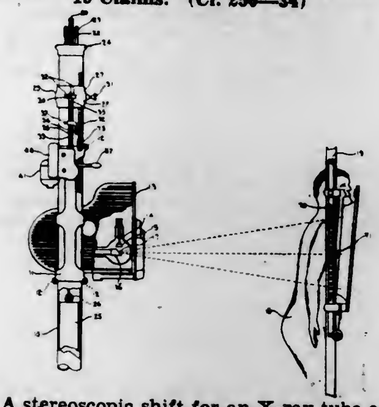
1,947,846

X-RAY APPARATUS

Julius J. Grobe, Chicago, and Arthur J. Kizaur, Cicero, Ill., assignors to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York

Application July 30, 1928. Serial No. 296,230

19 Claims. (Cl. 250—34)



1. A stereoscopic shift for an X-ray tube comprising a standard, an X-ray tube supporting member disposed upon said standard and adapted to reciprocate vertically thereupon, an X-ray tube on said member, a rack upon said standard and adjustable thereon, a motor upon said tube supporting member, a pinion adapted to be driven by said motor and engaging said rack, means for establishing electrical connection to said motor, and means for mechanically disconnecting said motor from said pinion when said X-ray tube is moved a predetermined distance.

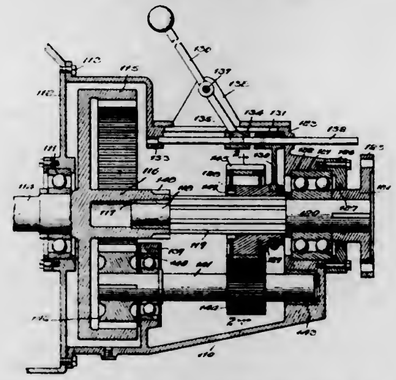
1,947,847

REVERSE GEAR UNIT

Paul D. Harvey, Chicago, Ill.

Original application January 5, 1931, Serial No. 506,774. Divided and this application February 10, 1932. Serial No. 592,049

4 Claims. (Cl. 74—58)



4. In a device of the class described, a drive shaft having an internal gear thereon and including a sleeve portion axially aligned with the drive shaft and having teeth thereon at the free end thereof and providing a bearing, a driven shaft having one end thereof journaled in said bearing, a member splined to said driven shaft and having teeth in the side thereof, a counter-shaft having a gear thereon, another gear on said counter-shaft and meshed with said internal gear, a ring surrounding said member and having gear teeth thereon, shock absorbing means for connecting said ring to said member, a hub on said member, a yoke engaging said hub, and means for moving said yoke to slide said member along said driven shaft to engage the teeth in the side thereof with the teeth on said sleeve or to mesh the gear teeth on said ring with the first-named gear on said counter-shaft to operate said driven shaft from said drive shaft in opposite directions or to disconnect said shafts from each other.

1,947,848

SYSTEM OF PHOTOGRAPHIC PRINTING

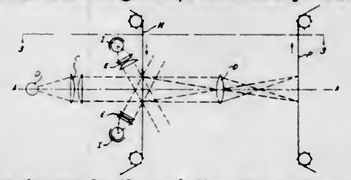
George A. Hatherell, Roscoe, and Thomas M. Ingman and Frank E. Garbutt, Hollywood, Calif., assignors, by mesne assignments, to Paramount Publix Corporation, Los Angeles, Calif., a corporation of New York

Application November 19, 1929

Serial No. 408,234

7 Claims. (Cl. 88—24)

1. In a system of photographic printing, means for supporting a negative and an actinic film in printing relationship, illuminating means for the negative located at right angles to the surface of said negative, another illuminating means for the negative located at oblique angles to the surface of the said negative, and unitary means for



varying inversely the relative intensities of the two said illuminating means.

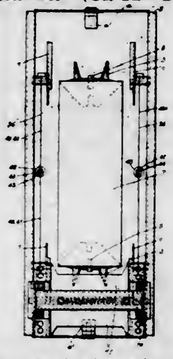
1,947,849

DEVICE FOR HONING AND STROPPING RAZOR BLADES

Alexandre Hazan, Antwerp, Belgium

Application July 15, 1932, Serial No. 622,761, and in Belgium July 25, 1931

3 Claims. (Cl. 51—153)



1. In a honing and stropping apparatus for safety razor blades, the combination of an oblong box shaped frame, longitudinally spaced brackets on the bottom wall of said frame, open notches in said brackets, a flat honing and stropping body, journals on the narrow sides of said body adapted to be pivotally received in said notches, suitable springs mounted on said brackets and adapted to bear against said journals to brake the swinging movements of the honing and stropping body, means formed on said journals and engaged by said springs, whereby the latter will be held in their operative positions, a carriage mounted on the top of the frame for reciprocation thereon, and a blade-holder pivotally mounted in said carriage in such a way that the blade held therein will come into contact with the honing and stropping body as the carriage is reciprocated over said body, substantially as set forth.

1,947,850

SHIPPING CASE AND SUPPORTING FRAME FOR REFRIGERATING APPARATUS

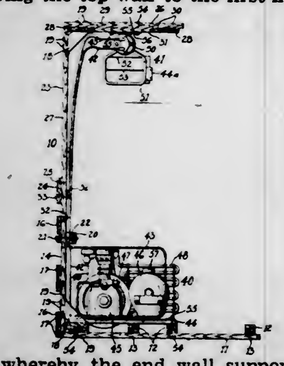
Edward Heitman and Arthur H. Sack, Detroit, Mich., assignors to Kelvinator Corporation, Detroit, Mich., a corporation of Michigan

Application April 8, 1931. Serial No. 528,502

3 Claims. (Cl. 217—36)

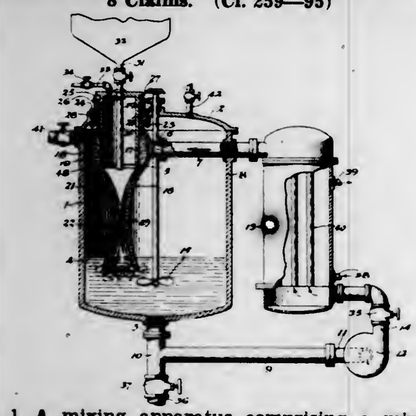
1. A shipping case for refrigerating apparatus comprising a substantially rectangular box having removable side walls, a bottom wall adapted to support a refrigerant condensing unit and rigidly secured to an end wall, a top wall rigidly secured to the opposite end wall, said last mentioned end wall being adapted to support a refrigerant cooling unit and being detachably se-

cured to the bottom wall, and means for rotatably securing the top wall to the first mentioned



end wall whereby the end wall supporting the refrigerant cooling unit may be swung upwardly to a horizontal position.

1,947,851
MIXING APPARATUS
Joseph E. Jewett, Buffalo, N. Y., assignor to National Aniline and Chemical Company, Inc., New York, N. Y., a corporation of New York
Application January 31, 1930. Serial No. 424,911
8 Claims. (Cl. 259—95)

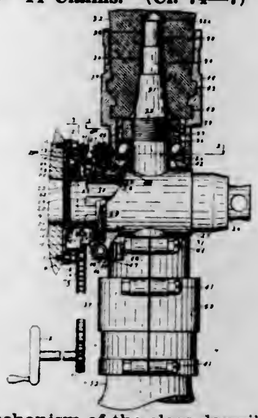


1. A mixing apparatus comprising a mixing vessel for introducing a solid or liquid into a moving stream of liquid, said mixing vessel including means for forming said moving liquid into a hollow cone, means for circulating a liquid through said mixing vessel, said means including a system for circulating said moving liquid in a cyclic stream, means for maintaining an atmosphere of gas in said mixing vessel, and means for maintaining a reduced pressure in said mixing vessel.

1,947,852
METHOD OF CONDUCTING CAUSTIC ALKALI FUSIONS
Joseph E. Jewett, Buffalo, N. Y., assignor to National Aniline and Chemical Company, Inc., New York, N. Y., a corporation of New York
Application January 31, 1930. Serial No. 424,914
10 Claims. (Cl. 260—47)

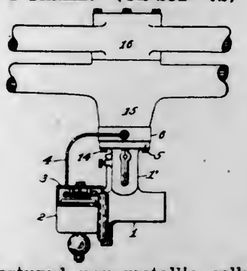
1. In the manufacture of a chemical product by a process which includes fusing a material with caustic alkali, the improvement which comprises circulating the caustic alkali in molten condition in the form of a stream, and introducing said material into said stream of caustic alkali to form a mixture therewith.

1,947,853
MECHANICAL MOVEMENT
Frank A. King, Englewood, Colo.
Application April 5, 1932. Serial No. 603,373
14 Claims. (Cl. 74—7)



1. In mechanism of the class described, a turnable element, a movable member carried thereby, a drive shaft, said element being secured to said shaft, a relatively stationary gear, a revolvable gear, a drive gear secured to and movable with the shaft, a free gear having a gear united therewith, a planet gear carrier positioned between certain of said gears and provided with a plurality of radial shafts, inner and outer gears mounted on the radial shafts, the inner gear being in mesh with the stationary gear and drive gear and actuated by the latter, the outer gear being in mesh with said revolvable gear and the free gear and on being rotated by the revolvable gear functioning to adjust the free gear, and means interposed between said movable member and the gear united with said free gear for operating the movable member from the free gear and for locking said movable member against retroactive movement.

1,947,854
COMBINATION INSULATOR AND PRESSURE RELIEF DEVICE FOR CARBURETORS
Louis Kleinhoffer, Joliet, Ill.
Application December 24, 1932
Serial No. 648,732
4 Claims. (Cl. 261—72)

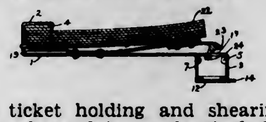


1. An apertured non-metallic cellular gasket of the class described, composed of a material non-conductive to heat, and a tubular connection between the upper portion of a carburetor reservoir and the interior of the gasket, the latter being removably secured between the gas and air outlet of the carburetor and the inlet manifold of an internal combustion engine, whereby the heat of said manifold is prevented from passing into the carburetor, while gas pressure in the top of the reservoir is relieved by exhausting into said gasket and manifold.

1,947,855
DYEING ACETATE SILK
Karl Koeberle and Joachim Mueller, Ludwigshafen-on-the Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 11, 1932, Serial No. 628,445, and in Germany August 26, 1931
4 Claims. (Cl. 8—5)

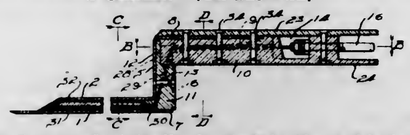
1. A process of dyeing acetate silk, which comprises acting on the acetate silk with a bath comprising 4-amino-1.9-anthrapyrimidine.

1,947,856
TICKET HOLDING AND SHEARING DEVICE
Harry T. Krakau, Cleveland, Ohio, assignor to The Acme Check Company, Ltd., Cleveland, Ohio, a limited partnership association of Ohio
Application March 10, 1933. Serial No. 660,331
9 Claims. (Cl. 206—40.6)



1. In a ticket holding and shearing device, comprising a base plate member including an inverted U-shaped clamp on one end, a spring plate secured in midsection to said base member, one end of said spring member forming a resilient base for tickets inserted in said clamp, vertically movable ticket holding means on the opposite portion of said spring member, and punching means secured to said base plate and ticket holding members, said punching means being actuated by the vertical movement of said holding member.

1,947,857
ELECTRICALLY HEATED KNIFE
Paul Krebs, Detroit, Mich.
Application July 5, 1932. Serial No. 620,823
2 Claims. (Cl. 219—21)

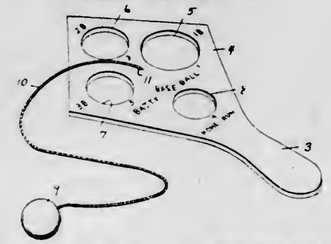


2. In an electrically heated knife, a blade, a housing on the blade provided with an upright portion terminating in an off-set portion extending parallel with the blade, the rear of the blade extending beyond the upright portion of the housing, an insulating handle secured to the off-set parallel portion of the housing and an insulating block secured to the upright portion of the housing and supported on the portion of the blade extending rearwardly of the upright portion of the housing, an electric heating element within the housing portion on the blade and circuit wires leading through the insulating handle and insulating block, the circuit wires being enclosed and protected throughout their length.

1,947,858
PROCESS OF PRODUCING ISOVIOLANTHRONE
Lucas P. Kyrides, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application December 1, 1928
Serial No. 323,190
14 Claims. (Cl. 260—61)

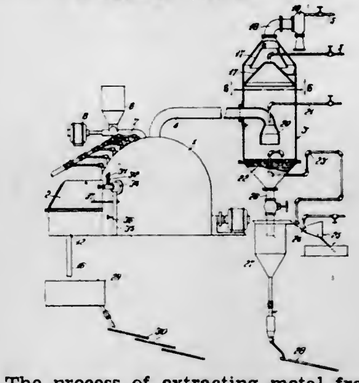
1. In the production of isoviolanthrone by the fusion of a Bz-halogen-benzanthrone compound with an alcohol and an alkali-metal hydroxide in the absence of an inert liquid as a solvent or diluent, the improvement which comprises carrying out the reaction with a reaction mixture containing about 5 to about 18 mols of alkali-metal hydroxide per mol of halogen-benzanthrone compound.

1,947,859
AMUSEMENT DEVICE
Matthew Francis Lathers, Orlando, Fla.
Application December 10, 1932
Serial No. 646,688
1 Claim. (Cl. 273—97)



In a game apparatus, a paddle member comprising a body portion and an integral handle portion extending therefrom, the body portion having a substantially diamond shape in simulation of the infield of a baseball diamond, the body portion having four holes therethrough, and located to correspond to the bases of the diamond, the holes progressively increasing in size from the one corresponding to home plate to the one corresponding to first base, a ball tethered to said paddle member, the ball being of such size that it may pass through any of said holes.

1,947,860
PROCESS FOR EXTRACTING METALS FROM ORES
Alva D. Lee, Requa, Calif.
Application May 23, 1930. Serial No. 454,960
8 Claims. (Cl. 75—17)



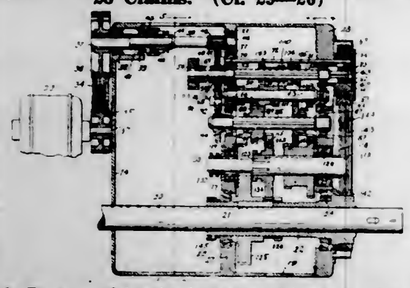
1. The process of extracting metal from ore which includes continuously introducing finely

divided ore into an air-tight furnace, continuously feeding the same in a comparatively thin layer or stream, subjecting the layer of ore to the direct action of a highly reducing flame for a sufficient length of time to substantially reduce a part or all of the metallic elements, collecting and condensing the metallic vapors, gradually and continuously removing the hot residue and quenching the same without subjecting such residue, prior to quenching, to oxidizing conditions.

1,947,861
PROCESS OF MAKING WATER SOLUBLE PETROLEUM SULPHONATES
Lee Liberthson, New York, N. Y., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application April 1, 1931 Serial No. 527,048
5 Claims. (Cl. 260—159)

1. Process of forming water soluble petroleum sulphonates in laminar form from sludges resulting from the treatment of petroleum oils with sulphuric acid, and containing green petroleum sulphonic acids together with non-acid organic compounds, which comprises selectively removing the non-acid organic compounds and thereafter applying the organic acids in the form of salts formed by reacting said acids with a base, which base forms water soluble salts therewith, and with the said salts dissolved in a solvent, thereby forming a solution and applying said solution as a film to a relatively smooth metal surface, heating said surface to evaporate the solvent, dislodging and collecting the laminar fragments thereby formed.

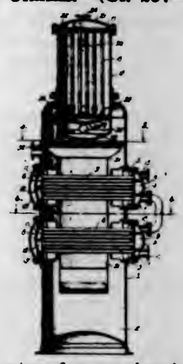
1,947,862
SPECIAL HIGH SPEED DRIVE FOR THE SPINDLE OF BORING MACHINES OR OTHER MACHINE TOOLS
Henry M. Lucas, Cleveland Heights, and Hallis N. Stephan, Cleveland, Ohio, assignors to The Lucas Machine Tool Company, Cleveland, Ohio, a corporation of Ohio
Application January 9, 1932. Serial No. 585,666
28 Claims. (Cl. 29—26)



1. In a machine tool, the combination of a tool spindle, and a plurality of means for driving said tool spindle, one of said means including a flexible driving connection encircling said tool spindle.

26. In a spindle head for a boring machine the combination of a frame, a drive shaft rotatably supported in said frame, a spindle quill rotatably supported in said frame, a spindle slidably keyed to said spindle quill, a gear train adapted to operatively connect said shaft and said spindle quill, a flexible drive adapted to operatively connect said shaft and said spindle quill, and means for connecting and disconnecting said flexible drive.

1,947,863
APPARATUS FOR CONDENSING HYDROCARBONS
John C. Mahoney, Elizabeth, N. J., assignor to Alco Products, Incorporated, New York, N. Y., a corporation of Delaware
Original application March 4, 1931, Serial No. 520,073. Divided and this application January 28, 1933. Serial No. 654,015
13 Claims. (Cl. 257—42)

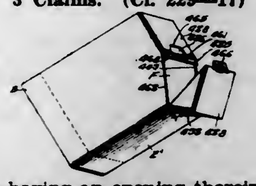


1. An apparatus for condensing hydrocarbon vapor mixtures comprising a vertical shell; a coil unit within said shell, means for introducing hydrocarbon vapor above said cooling unit and means for directing the vapor downwardly over the unit to the lower portion of the shell and upwardly to the upper portion of the same independently of the downflowing vapor.

1,947,864
CATALYST FOR THE PRODUCTION OF NITRIC ACID AND THE LIKE
Louis Jean Alexis Marmier, Lille, France
No Drawing. Application October 15, 1931, Serial No. 569,117, and in Belgium November 4, 1930
4 Claims. (Cl. 23—234)

1. A catalyst for the oxidation of ammonia into nitric acid, comprising lumps of a material having the physical and chemical properties of pozzuolane and capable of withstanding temperatures higher than 900° C. without substantial modification, each lump having its peripheral portion impregnated with a finely divided chromium oxide.

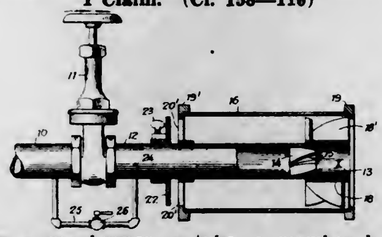
1,947,865
BOX
Harry V. Marsh, Chicago, Ill.
Application May 14, 1932. Serial No. 611,300
3 Claims. (Cl. 229—17)



1. A box having an opening therein and comprising a blank, said blank having sections providing the several walls of the box including the top, side walls and bottom thereof, the top of said box comprising a plurality of thicknesses of said blank, and the outermost of said thicknesses having perforations therein defining a tongue, a portion of said top and portions of a plurality of

said side walls adjacent thereto being displaceable to effect said opening, a cover for said opening comprising said displaceable portions, said cover being removable incidental to the breaking of said blank along said perforations to free said tongue, and said tongue being adapted for engagement with the material forming the other thickness of said blank in said top section for maintaining said cover over said opening.

1,947,866
GAS BURNER
John T. McCourt, Memphis, Tenn.
Application December 26, 1929. Serial No. 416,432
1 Claim. (Cl. 158—110)



In a gas burner, a tube, a member having spiral vanes arranged in the tube to divide it into a long rear chamber and a short front chamber of similar internal diameter, said front chamber being fully open at its front end, a valve in said tube for admitting gas to the rear end of said rear chamber, an air pipe surrounding the tube in spaced relation thereto and extending from the front end of the tube to a point near the rear end thereof, said air pipe having at its front end a discharge opening surrounding the open front end of said front chamber, said air pipe having at its rear end an intake open to the atmosphere, a member having spiral vanes directed oppositely to the vanes of said first member, said second member being slightly longer than said front chamber and arranged in the air pipe in surrounding relation to said front chamber, and a by-pass for gas around said valve having an inner diameter smaller than that of said rear chamber and entering said chamber near the rear end thereof in advance of the valve, said by-pass being adapted to supply said rear chamber with a small amount of gas which expands in said chamber and then flows at substantially atmospheric pressure to said front chamber to maintain a pilot flame within said front chamber, and the wall of said front chamber shielding the flame from air currents.

1,947,867
METHOD OF MANUFACTURING CONNECTER BOLTS
Frederick William Mebold, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application July 22, 1932. Serial No. 623,954
11 Claims. (Cl. 10—27)



1. The method of forming a connecter bolt from a ductile metal slug, which consists in bending the slug into bifurcate form, lengthening and shaping the furcations by drawing, shaping the portion connecting the furcations by swaging, and threading the furcations.

1,947,868
TREATMENT OF HYDROCARBON OILS
Jacque C. Morrell and Gustav Egloff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
No Drawing. Application February 16, 1931 Serial No. 516,273
4 Claims. (Cl. 196—36)

1. A step in the refining of the overhead products of hydrocarbon oil cracking, which comprises subjecting said products in heated vaporous condition to the action of sulphur dioxide, free oxygen and steam in the presence of a non-metallic solid contacting agent.

1,947,869
TREATMENT OF HYDROCARBON OILS
Jacque C. Morrell and Gustav Egloff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
No Drawing. Application February 16, 1931 Serial No. 516,284
4 Claims. (Cl. 196—36)

1. A step in the process of refining the overhead products of hydrocarbon oil cracking, which comprises subjecting said products in heated vaporous condition to the action of a mixture of sulphur dioxide and steam in the presence of discrete particles of a solid metallic salt.

1,947,870
METHOD OF FORMING ORNAMENTAL SURFACES FROM DISPERSED MEDIA
Edward Arthur Murphy, Erdington, Birmingham, and Eric William Bower Owen, Walmley, England, assignors to Dunlop Rubber Company Limited, a British corporation
No Drawing. Application March 31, 1931, Serial No. 526,782, and in Great Britain July 10, 1930
6 Claims. (Cl. 91—68)

1. The method of forming irregular ornamental surfaces suggestive of wave-like contours which comprises contacting the surface of an aqueous dispersion of organic materials with a coagulant, the alkalinity and concentration of the dispersion being adjusted to the strength of the coagulant to produce a coagulum of such low mechanical strength as to permit the superficial gathering of the coagulated surface to simulate wave-like contours, in which the dispersion is a dispersion of rubber material containing from about 25% to 30% total solids and an alkalinity equal to 0.5 of ammonia and in which the coagulant is a 5% solution of acetic acid.

1,947,871
PRODUCTION OF RUBBER ARTICLES
Edward Arthur Murphy, Wylde Green, Birmingham, and Robert Gilbert James, Selly Oak, Birmingham, England, assignors to Dunlop Rubber Company Limited, London, England, a British company
No Drawing. Application March 16, 1933, Serial No. 661,086, and in Great Britain April 19, 1932
6 Claims. (Cl. 18—54)

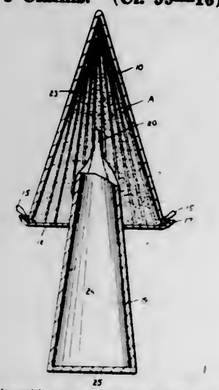
1. A process for the manufacture of threads, filaments and tubes of rubber materials from aqueous dispersions thereof which comprises causing the aqueous dispersions to flow in a shaped jet into contact with a liquid dehydrating and setting medium having a continuous

penetrative osmotic action, and comprising a concentrated solution of a largely dissociated hydrolyzable salt of a weak acid and free weak acid itself in such amount that the pH value of the medium is not lower than 5.0, and adding to the aqueous dispersions before contact substances substantially inactive to the dispersions aforesaid and capable of being decomposed when brought into contact with the aforesaid weakly acidic medium into substances inducing coagulation within the aqueous dispersions aforesaid.

1,947,872

METHOD OF PRODUCING FROZEN DELICACIES AND CONTAINER THEREFOR

John J. Nolte, Los Angeles, Calif.
Application June 11, 1932. Serial No. 616,738
3 Claims. (Cl. 99—16)

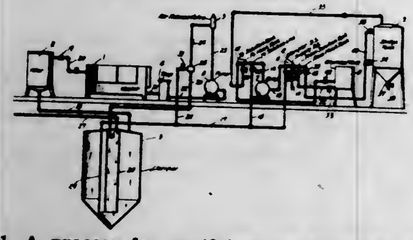


1. In combination a conical ice cream package having its base portion open, a drip plate of a slightly larger diameter than the open base portion of the package to provide an annular lip therearound, an ice cream filling in the package to which the drip plate sticks, and manual means integrally carried by the base portion of the package by means of which the package may be forcibly separated from the ice cream.

1,947,873

CLARIFYING SYSTEM FOR DRY CLEANING SOLVENTS

Victor C. Norquist and Earl E. Treanor, Kansas City, Mo., assignors to Butler Manufacturing Company, Kansas City, Mo., a corporation of Missouri
Application June 20, 1930. Serial No. 462,632
2 Claims. (Cl. 210—44)

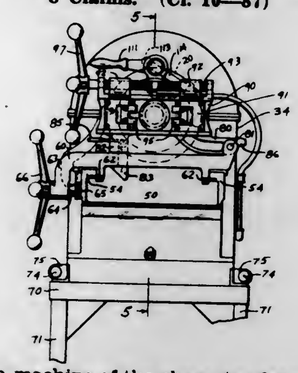


1. A process for purifying contaminated dry cleaning solvents comprising the steps of withdrawing a contaminated solvent from a washing zone, contacting the solvent so withdrawn with an amount of a chemical in a mixing zone to form a mixture, simultaneously introducing another amount of the same chemical into a clarifying zone, and passing the mixture of the chemical and the contaminated solvent through the chemical in the clarifying zone.

1,947,874

PIPE THREADING MACHINE

Robert B. Pealer, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a corporation of Ohio
Application September 14, 1931
Serial No. 562,687
8 Claims. (Cl. 10—87)

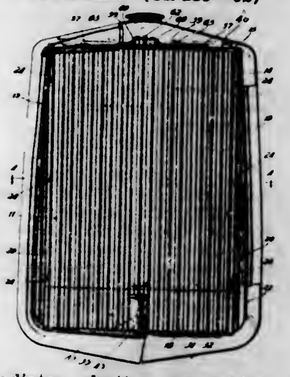


1. In a machine of the character described, the combination of a rotary chuck, mechanism for driving the same, a bed, a carriage slidable upon the bed, an arm hinged to the carriage out of alignment with the chuck bore, a thread cutting unit carried by the arm on one side thereof and a pipe cutting unit carried by the arm on the opposite side thereof, and means for latching the arm to the carriage in operating position.

1,947,875

RADIATOR SHUTTER

Edgar G. Petersen, Chicago, Ill., assignor to Pines Winterfront Company, Chicago, Ill., a corporation of Delaware
Application February 4, 1931. Serial No. 513,278
19 Claims. (Cl. 189—62)



1. A radiator shutter comprising a frame adapted to be mounted on a radiator so as to extend below the radiator core, shutter elements pivotally mounted in said frame and extending below the core, and an apron adapted to be located below the core and behind the shutters.

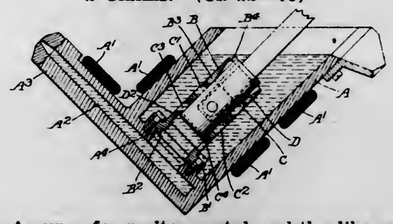
16. In a radiator shutter, a frame, shutter elements mounted therein, said frame comprising side frame members each of which is adapted to

project forwardly to engage the radiator shell and support same against lateral movement in both directions.

1,947,876

PUMP FOR MOLTEN METAL AND THE LIKE

Joseph Edgar Rhoads, Wilmington, Del., and George Herbert White, Philadelphia, Pa., assignors, by mesne assignments, to Chester A. Macomic, Chicago, Ill.
Application July 10, 1931. Serial No. 549,935
2 Claims. (Cl. 22—70)

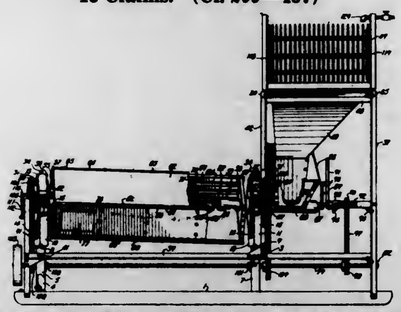


1. A pump for molten metal and the like comprising a cylinder and piston mounted for reciprocation therein, the cylinder wall being apertured, the apertures being arranged in groups about the periphery of the cylinder, the groups being disposed along the axis of the cylinder, the apertures in one group being angularly displaced with respect to the apertures in the next so that as the piston reciprocates all parts of the surface thereof during the cycle of operation come in register with at least one of said apertures.

1,947,877

CONCENTRATING MACHINE

William C. Rickel, Bethel, Kans.
Application December 16, 1931
Serial No. 581,305
15 Claims. (Cl. 209—437)



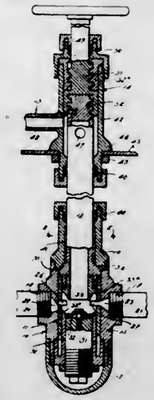
9. In a machine of the character described, a concentrating chamber, means for feeding material to said chamber, a support, means pivotally mounting opposite ends of said chamber on the support, and means for gyrating the ends of the chamber through fixed circular paths around the axes of said mounting means at different speeds to effect concentration of portions of said material.

1,947,878

VALVE

Olin F. Russell, Los Angeles, Calif.
Application May 9, 1927. Serial No. 189,847
43 Claims. (Cl. 277—33)

1. A valve including a cylindrical body having spaced ports, a valve sleeve slidable in the body and having ports to co-operate with the ports in the body, the ports in the body and in the valve being related so that the valve is operable to open communication between both of the ports in the body and the interior of the valve and a tubular valve stem in communication with the interior of the valve sleeve forming an outlet conduit.

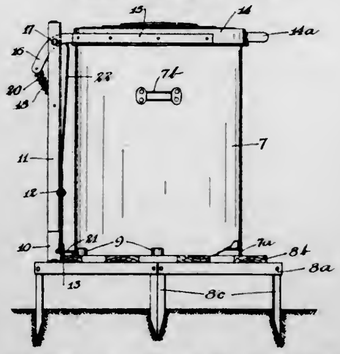


4. A valve including a cylindrical body having spaced ports, a valve sleeve slidable in the body and having ports to co-operate with the ports in the body, a plug at one end of the body extending into the sleeve, a washer carried by the plug for removal therefrom, a hollow stem for operating the sleeve, the end of the stem being adapted to co-operate with the washer to close the stem, and means operable to close the stem during removal of the washer.

1,947,879

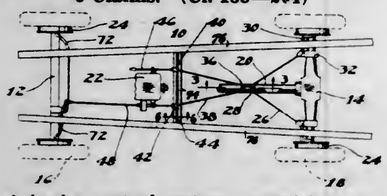
RECEPTACLE HOLDER

David E. Sandberg and Egnar Sandberg, Minneapolis, Minn.
Application September 28, 1931
Serial No. 565,455
9 Claims. (Cl. 248—11.5)



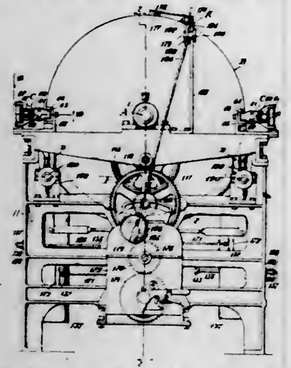
5. A receptacle holder comprising a supporting base, an upright standard, a series of upstanding positioning lugs mounted on said base for abutting the lower end of a receptacle, a cover swingably mounted upon the upper end of said standard and normally overhanging said base, a locking element mounted in said base and arranged to cooperate with said lugs for retaining said receptacle against displacement and actuating connections between said locking element and said cover.

1,947,880
BRAKE
Roy S. Sanford, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Original application January 18, 1928, Serial No. 247,505. Divided and this application December 3, 1930. Serial No. 499,681
5 Claims. (Cl. 188—204)



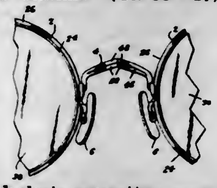
1. A brake control system comprising two sets of brakes, a cross cable connecting one set of brakes, a cross cable connecting the other set of brakes, rock levers, a cable connecting the rock levers to one of the cross cables, means for actuating one of the rock arms to impose tension on one of the cross cables, a cable connecting the other rock lever to the other cross cable and means including a brake pedal lever for imposing tension on the cables connecting the cross cables.

1,947,881
TUMBLER FLUTING MACHINE
Harold R. Schutz, Toledo, Ohio, assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application August 8, 1932. Serial No. 627,903
29 Claims. (Cl. 51—107)



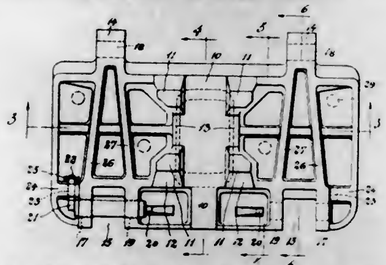
14. In a fluting machine, a continuously rotating grinding wheel, an article-holding chuck positioned adjacent the peripheral grinding face of the wheel, said chuck comprising a pivotally mounted bracket, article holding chuck members rotatably mounted in the bracket, a ratchet wheel connected with one of the chuck members, a locking pawl yieldably engaging the ratchet, an operating pawl yieldably engaging the ratchet, a carrier for the operating pawl mounted on the bracket, a normally fixed abutment engaged by the carrier, means for swinging the chuck-bracket, means normally actuating said chuck-swinging means to move the article into grinding engagement with the wheel, and means for periodically actuating the chuck-swinging means to move the article away from the wheel and simultaneously swing the carrier toward the abutment to cause the operating pawl to index the ratchet through a predetermined angle.

1,947,882
OPHTHALMIC MOUNTING
Wayne S. Searles, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a corporation of Rhode Island
Application October 10, 1932. Serial No. 637,066
6 Claims. (Cl. 88—47)



1. An ophthalmic mounting comprising a plurality of members, namely, lens rims, a bridge and temples, each having an inner face adapted to be positioned adjacent to a wearer and being relatively thick to provide strength, and an outer face adapted to be positioned more remotely from the wearer and being relatively very thin to produce the effect of inconspicuousness, each lens rim having between its inner and outer faces a lens-receiving groove and a very gradually tapering face oppositely disposed to the lens-receiving groove, the bridge and the temples each having two oppositely disposed very gradually tapering faces joining their inner and outer faces, and the width of each member between its inner and outer faces being much greater than the thickness of the inner face of the corresponding member to enhance the effect of inconspicuousness.

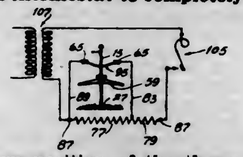
1,947,883
ENDLESS TREAD BELT LINK
Thomas A. Snyder, Milwaukee, Wis.
Application August 11, 1928. Serial No. 299,071
7 Claims. (Cl. 305—10)



1. A cast-metal tread-belt-link for creeping traction, having: a broad ground-engaging portion; a centrally-located wheel-runway, spaced above, and formed by a domed portion upwardly extending from, the ground-engaging portion; and upstanding wheel-guiding flanges, formed integrally with, and supported by, the domed portion.

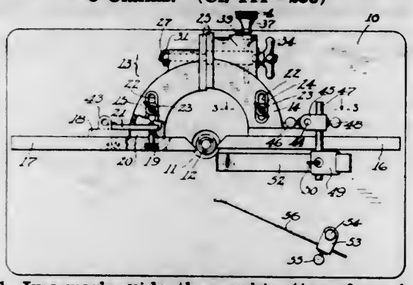
1,947,884
CONTROL
John A. Spencer, Newtonville, Mass., assignor to General Plate Company, Attleboro, Mass., a corporation of Massachusetts
Application February 16, 1931. Serial No. 516,043
4 Claims. (Cl. 236—68)

1. A control comprising a member adapted to be moved to either of two positions, a snap-acting thermostat adapted upon being heated and cooled to effect said positions of said member, an electric circuit including heating means, comprising resistances in series, adapted to heat said thermostat and means for automatically shorting out one of said resistances whereby in one position of said member fast heating of the thermostat takes place to cause said thermostat to completely throw, and



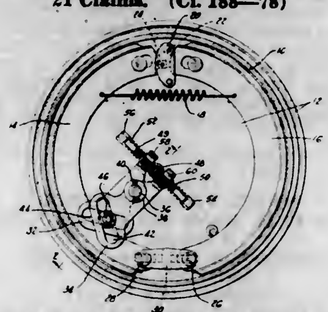
in the thrown position of the thermostat automatically to reintroduce the shorted-out resistance, thereby to cause slower continuous heating to definitely maintain the full throw.

1,947,885
WORK GUIDE
Herbert E. Tautz, Milwaukee, Wis., assignor to The Delta Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 19, 1933. Serial No. 676,485
8 Claims. (Cl. 144—253)



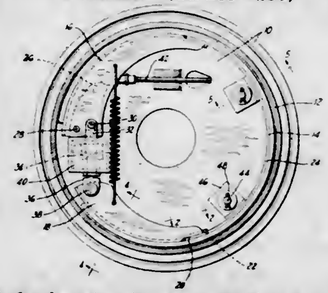
1. In a work guide, the combination of a pair of guide sections each having a work-guiding portion and each adapted to be independently clamped to a table, and means common to said guide sections for laterally adjusting either of said sections when the other is clamped to the table.

1,947,886
BRAKE MECHANISM
Eugene V. Taylor, Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application July 26, 1930. Serial No. 470,795
21 Claims. (Cl. 188—78)



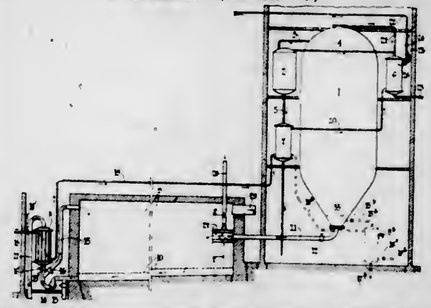
1. A brake comprising, a drum, friction means for engaging the drum, an actuating member therefor, and a wedging device across the drum from the actuating member and comprising a pair of inclined adjacent relatively adjustable cam members on which the friction means slidably wedges when the brake is applied and which are adapted to force the friction means against the drum.

1,947,887
BRAKE BAND
Carl B. Thompson, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application July 21, 1930. Serial No. 469,464
3 Claims. (Cl. 188—250)



1. A brake structure comprising an annular band type friction element fabricated of a curved stamping presenting an imperforate brake lining support member, and reinforced rim portions having recessed ends receiving the ends of said curved stamping.

1,947,888
PROCESS AND APPARATUS FOR THE MANUFACTURE OF PULP
Carl Busch Thorne, Hawkesbury, Ontario, Canada
Application April 23, 1932. Serial No. 607,152
6 Claims. (Cl. 92—7)



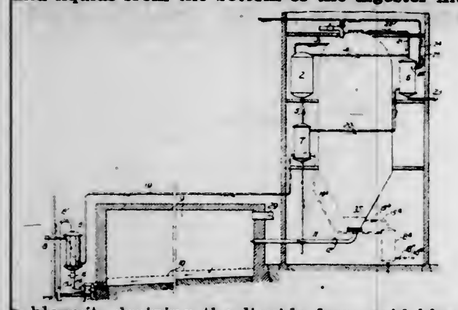
1. In the manufacture of pulp, discharging liquids and solids from a digester into a blowpit, allowing the liquids to drain from the blowpit, and pumping said liquids back into said blowpit until a sufficient quantity of the solids has accumulated in the blowpit to form a filter for the liquids.

4. Apparatus for manufacturing pulp, comprising a digester, a blowpit having an outlet and a connection to said digester, and means connected to said outlet for returning materials passing through said outlet to said blowpit when desired.

1,947,889
PROCESS AND APPARATUS FOR THE MANUFACTURE OF PULP
Carl Busch Thorne, Hawkesbury, Ontario, Canada
Application April 27, 1933, Serial No. 668,209, and in Canada April 20, 1932
8 Claims. (Cl. 92—7)

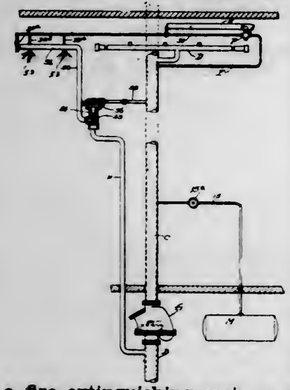
1. A process of manufacturing pulp, which comprises cooking materials in a digester, pass-

ing fluids relieved from the upper part of the digester through heat exchanger means to recover heat therefrom, and, after the cooking operation has been completed, discharging solids and liquids from the bottom of the digester into



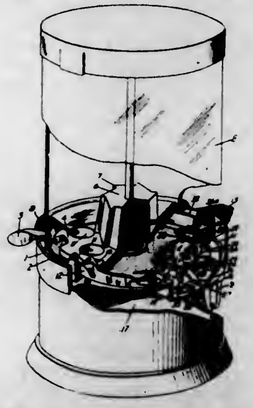
a blowpit, draining the liquids from said blowpit and passing them through heat exchanging means, and circulating liquid to be heated through said heat exchanging means in counter-current to the hot fluids from the digester.

1,947,890
FIRE EXTINGUISHING APPARATUS
Emil Tyden, Hastings, Mich.
Application June 30, 1930. Serial No. 464,940
3 Claims. (Cl. 169—16)



2. In a fire extinguishing system of the type having a valve chamber for a main water controlling valve connected for deriving water supply under pressure and a discharge pipe line from said chamber constituting an air pressure region, said system comprising a pipe system in the apartment to be protected communicating with said discharge pipe line and having water discharge heads normally closed and constructed for opening in response to rise of temperature to a predetermined degree, the main water controlling valve arranged to be opened by the water supply pressure and held normally seated by the pressure in the air pressure region including the main valve chamber; a vent pipe line communicating with the air pressure region and leading to the apartment to be protected; a vent valve in said vent pipe line; a temperature-responsive device located in the apartment adapted to respond to conditions constituting fire danger in advance of the response of the closed heads, and operating connections from the temperature-responsive device for opening the vent valve upon predetermined temperature affecting said temperature-responsive device; a supplemental water pipe line connected for deriving water independently of control by the main water controlling valve; a second apartment pipe system having open discharge heads connected with said supplemental water line and a valve controlling access of water to said second system arranged to be opened by the water pressure; a source of compressed air and pressure flow connections therefrom to the air pressure region, and connections from said compressed air source leading and connected for holding said last mentioned valve normally seated against the water pressure in said supplemental water pipe line; whereby upon the relief of the pressure from the compressed air source due to the opening of the vent valve by the temperature-responsive device water is discharged through all the open heads of said second apartment system.

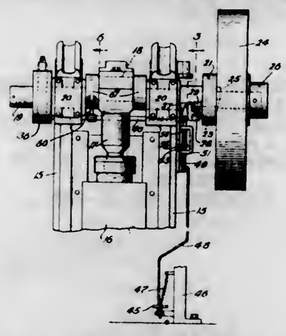
1,947,891
COIN CONTROLLED VENDING MACHINE
Ralph A. Vogel, Columbus, Ohio, assignor to The Columbus Vending Company, Columbus, Ohio, a corporation of Ohio
Application April 8, 1931. Serial No. 528,499
25 Claims. (Cl. 194—93)



1. Coin-controlled mechanism comprising a locking means, a means for receiving a coin and transporting such coin, a deposit aperture for perforated slugs or coins, and means rendered effective to prevent operation of said locking means in response to transportation of a good coin, said means being automatically effective to permit a perforated slug or coin to drop by gravity force into said aperture during transportation thereof and without effecting release of said locking means.

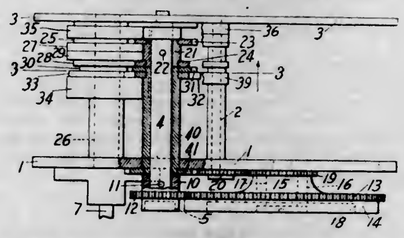
1,947,892
POWER PRESS CONTROL
Harry C. H. Walsh and Edward H. Hall, Chicago, Ill.
Application December 26, 1931
Serial No. 583,232
7 Claims. (Cl. 192—17)

6. In a punch press having a crank shaft journaled in a standard, a driving element, clutch mechanism for effecting driving connection between the driving element and the crank shaft, a latch for operating the clutch, brake mechanism tending to hold the shaft against rotation, a rock shaft connected to the brake mechanism and the latch to move them simultaneously, a spring for moving the latch to effect driving connection between the crank shaft and driving element and release the brake mechanism from the crank shaft, and means operable by the crank



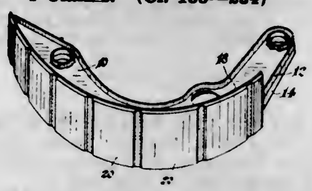
shaft for moving the rock shaft whereby the brake is applied and the clutch is released.

1,947,893
DATE SETTING DEVICE
Albert S. Wheelbarger, Dayton, Ohio, assignor to Ohmer Fare Register Company, Dayton, Ohio, a corporation of Ohio
Application February 25, 1927. Serial No. 170,981
11 Claims. (Cl. 101—110)



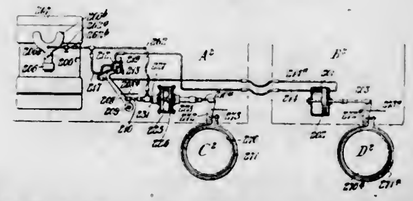
1. In a machine of the type described, units and tens printing wheels for dates, a disk to visually indicate the setting of said wheels, operative means interconnecting said wheels and disk and means whereby said wheels and disk may be adjusted to any desired indication.

1,947,894
BRAKE SHOE
Stanley Whitworth, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application January 4, 1929. Serial No. 330,346
4 Claims. (Cl. 188—234)



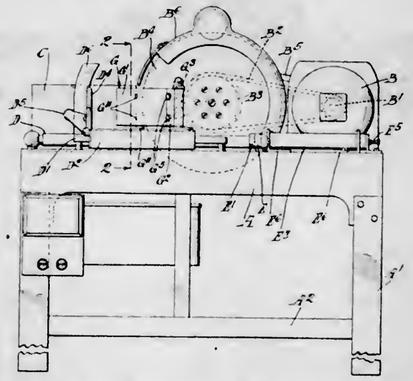
1. In a brake shoe, the combination with a metallic rim of a friction member comprising a series of spaced fabric friction segments with a continuous woven wire base embedded in the underside thereof and welded to the rim at the separable ends of the segments.

1,947,895
BRAKE MECHANISM FOR AUTOMOTIVE VEHICLES
Caleb S. Bragg, Palm Beach, Fla., and Victor W. Kliesrath, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a corporation of New York
Application July 29, 1926, Serial No. 125,615
Renewed March 27, 1929
38 Claims. (Cl. 188—152)



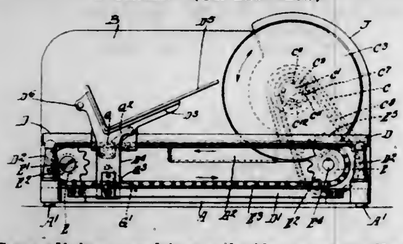
36. In a brake system for automotive vehicles, the combination with independently operable brake mechanism, of a single operator operated part and means under the control of the operator operated part for simultaneously actuating said brake mechanisms and separately controlling the operation of each to produce any desired braking effect of either brake mechanism independently of the other said operator operated part being connected to operate certain of said mechanisms by physical force.

1,947,896
POWER CLEAVER
William J. Campbell, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a corporation of New York
Application June 10, 1931. Serial No. 543,313
6 Claims. (Cl. 146—102)



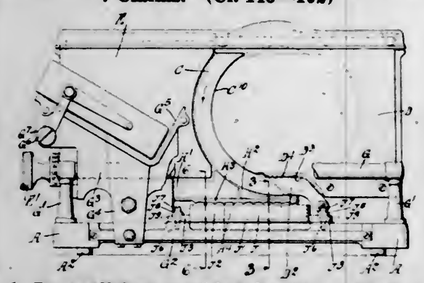
1. In a cleaving machine, a knife and means for rotating it, a carriage and means for guiding the carriage across the face and past the cutting edge of the knife, the carriage including an upstanding abutment along its edge opposite to the cutting edge of the knife when the carriage is at the beginning of its cutting stroke, and means for yieldingly holding the work against said abutment, including a guide pivoted to the carriage at a point remote from the cutting plane, and yielding means for rotating said guide about its pivot and toward said upstanding abutment, and means for maintaining the inner end of the guide in substantially constant spaced relation to the cutting plane, including means for varying the effective length of the guide.

1,947,897
SLICING MACHINE
William J. Campbell, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a corporation of New York
Application December 4, 1931. Serial No. 579,003
1 Claim. (Cl. 146—102)



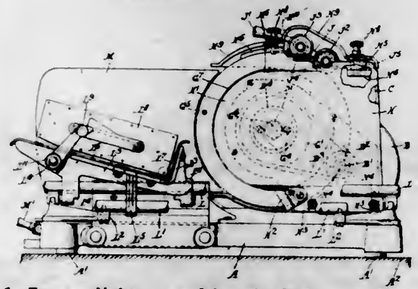
In a slicing machine, a knife, a manually operable carriage adapted to support the material to be sliced, means for actuating the carriage in relation to the cutting edge of the knife, driving means between carriage and knife adapted, in response to manual movement of the carriage to actuate the knife, said driving means including an endless chain, a plurality of pawls, mounted on the carriage, opposed to said chain, one of said pawls being adapted to overrun one bight of said chain, another of said pawls being adapted to override another bight of said chain, the pawl engaging one bight being inclined oppositely to the pawl engaging the other bight, and means for preventing unintended recession of said chain from said pawls in response to thrust of the pawls against the chain, said means including an abutment element mounted on the carriage adjacent each said pawl and adapted to engage the side of the chain opposite to the pawl.

1,947,898
SLICING MACHINE
William J. Campbell, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a corporation of New York
Application March 7, 1932. Serial No. 597,167
7 Claims. (Cl. 146—102)



1. In a slicing machine having a knife and means for actuating it, and a carriage and means for guiding it across the face and past the cutting edge of the knife, a slice receiving member positioned to the rear of the cutting plane, a scraper opposed to the forward face of the knife and a refuse receiving member positioned adjacent the cutting plane of the knife and in the line of discharge of said scraper, said refuse receiving member being independently removable from the slicing machine, the slice receiving member including an end wall adjacent a wall of the refuse receiving member, said wall being provided with a portion adapted to overhang the side wall of the receiving member when the receiving member is in operative position, said overhanging portion being downwardly and outwardly inclined and being provided with a plurality of drop forming depending projections.

1,947,899
SHARPENER FOR SLICING MACHINES
William J. Campbell, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a corporation of New York
Application September 16, 1932
Serial No. 633,522
7 Claims. (Cl. 51—248)



1. In a slicing machine including a base, a knife mounted on said base, and means for rotating it, a frame portion extending upwardly from said base adjacent said knife, and sharpening means for the knife including a manual control lever pivoted adjacent the knife, sharpening members directly mounted on said lever and supported thereupon and positioned on opposite sides of the cutting edge of the knife, and yielding means tending normally to hold said lever in intermediate position, with one of said sharpening members positioned opposite to each side of the cutting edge of the knife but out of contact with the knife.

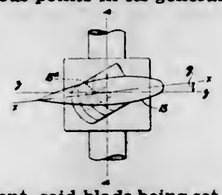
1,947,900
APPARATUS FOR REFINING PAPER STOCK
Judson A. De Cew, Mount Vernon, N. Y.
Application June 25, 1931. Serial No. 546,824
3 Claims. (Cl. 92—27)



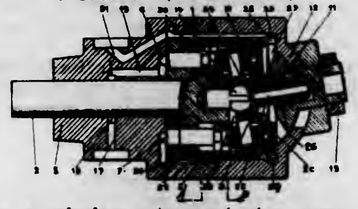
1. In a pulp refiner having a smaller inlet end and a larger outlet end, a shell provided with a tapered bore, a plug element rotatably mounted in said bore having longitudinal portions parallel to said bore and other longitudinal portions non-parallel thereto whereby the area of the free space between the plug and shell at the larger outlet end is less than the area of the free space between the plug and shell at the smaller inlet end.

1,947,901
AIRCRAFT OF THE ROTATIVE WING TYPE
Juan de la Cierva, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application December 4, 1930. Serial No. 500,064
32 Claims. (Cl. 244—19)

2. In an aircraft, a sustaining rotor construction mounted for autorotational movement with respect to an upright axis member under the influence of relative airflow, said rotor including a blade of substantially fixed centre of pressure aerofoil section arranged, with respect to the axis member, in such manner as to be free to assume a position of equilibrium between lift and inertia forces at various points in its general path of rotative movement, said blade being set at a positive incidence calculated with respect to the no-lift position relative to a plane perpendicular to the axis of rotation.

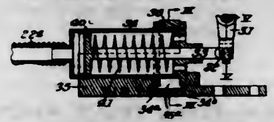


1,947,902
PISTON PUMP
Robert de Stoutz, Niederbronn, France
Application February 12, 1930, Serial No. 427,986, and in Germany February 16, 1929
7 Claims. (Cl. 103—162)



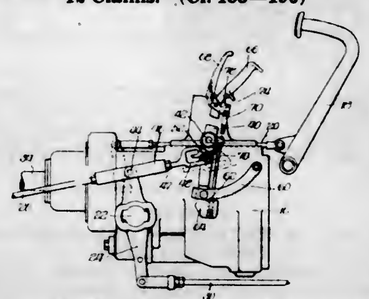
1. In a valveless rotary spinning pump, having a casing, a cover on the casing, a rotary cylinder block, pistons reciprocating therein and means for driving the pistons, axially guided crossheads positively connected to said pistons, and a connecting means for the pistons and crossheads comprising a head on the piston, a narrowed stem between the head and the piston, a hollow and a passage in the crosshead engaged by the piston head and the stem, the piston head being of smaller diameter than the hollow but larger than the passage in the crosshead, whereby the crosshead will drive the piston without axial play and will move freely in universal radial direction to the piston, thus avoiding transverse pressure to be imparted by said crosshead to said piston.

1,947,903
BRAKE MECHANISM FOR MOTOR VEHICLES
Edward A. Dickey, Aliquippa, Pa.
Application April 19, 1932. Serial No. 606,141
3 Claims. (Cl. 188—3)



1. In combination with the trailer of a motor truck provided with means for actuating brake equipment of the trailer; a front supporting bracket secured to and extending beyond the trailer having a transverse shouldered recess and a movable clamp, a cylinder removably mounted on the bracket having a liquid supply conduit and flanges engaging the shouldered recess, and a spring-retracted piston extending through the end of the cylinder and removably connected with the trailer brake actuating mechanism.

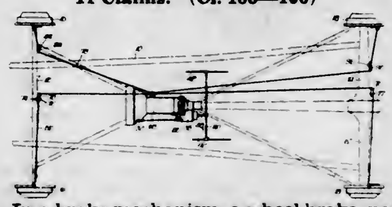
1,947,904
EMERGENCY LEVER PICK-UP AND RELEASE
Edwin R. Evans and Edward A. Rockwell, Chicago, Ill.
Application October 26, 1931. Serial No. 571,050
12 Claims. (Cl. 188—196)



2. Controlling mechanism for vehicle wheel brakes comprising a brake pedal, a power brake unit controlled by said brake pedal, brake linkage from said power brake to the wheel brakes, an emergency lever and means connecting said emergency to said brake linkage automatically operable to take up slack during the application of the brakes by said pedal.

12. In a vehicle brake linkage, a brake lever, connections from said brake lever to a set of brakes, a brake pedal connected to actuate said brake lever, an emergency lever connected to independently actuate said brake lever, means for taking up slack in the emergency lever connection during applying movement of the pedal and means for taking up slack in the pedal connection during applying movement of the emergency lever.

1,947,905
BRAKE LINKAGE
Edwin R. Evans, Chicago, Ill.
Application March 5, 1932. Serial No. 596,938
11 Claims. (Cl. 188—106)

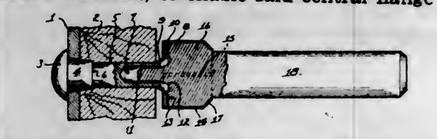


2. In a brake mechanism, a wheel brake, pedal-controlled means for applying said wheel brake, a slidable anchor pin associated with said wheel brake, means for sliding said pin for adjustment of said wheel brake and independent means for sliding said anchor pin to apply said wheel brake.

1,947,906
RIVET FASTENER
William H. Fine, Los Angeles, Calif.
Application June 23, 1933. Serial No. 677,233
1 Claim. (Cl. 85—40)

A rivet fastener comprising a headed shank composed of portions of relatively different diameters, the portion adjacent the head being the thicker, said portions meeting in a shoulder, and the reduced portion being tubular at its outer end; and a washer associated with the tubular end of said shank, said washer having upon its inner face a conical central flange the apex

thereof fitting closely upon the exterior of the tubular shank end, and the base thereof being of greater diameter than the normal diameter of said shank end, to enable said central flange to



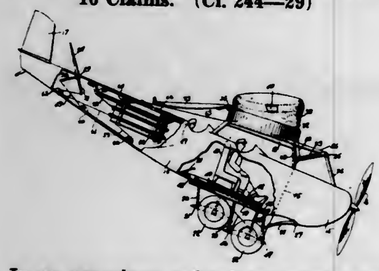
receive and closely embrace the wall of said shank end when said wall is expanded to set the shank and washer together, and said washer having also upon its inner face a penetrative peripheral flange.

1,947,907
MEANS OF RETENTION AND TRACTION FOR DENTURES
Jay Groves, Seattle, Wash.
Application January 19, 1931. Serial No. 509,828
4 Claims. (Cl. 32—4)



1. A denture having a depression in its seating surface, a groove within and about the margin of the depression, and below its general level, and a group of peaks slightly upstanding inside of said groove within the depression.

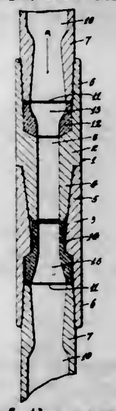
1,947,908
AEROPLANE
Jakob Hojnowski, Nekoosa, Wis.
Application July 20, 1933. Serial No. 681,341
16 Claims. (Cl. 244—29)



1. In an aeroplane, a fuselage, a pair of wings on the fuselage, a dive controlling extension at the forward edge of each wing, a cable connecting the extensions, an elevator at the rear of the fuselage, a track in the fuselage extending longitudinally thereof, a wheeled weight running on the track, a slidable passenger carriage in the fuselage, a cable connection between the carriage and the lower wing extension and cable connections between the wheeled weight and elevator.

1,947,909
TOOL JOINT
Aladar Hollander, Pasadena, Calif., assignor to Byron Jackson Co., San Francisco, Calif., a corporation of Delaware
Application May 12, 1930. Serial No. 451,639
10 Claims. (Cl. 285—146)

1. A drill pipe joint member, means for securing a drill pipe thereto, a fluid passage through said member, and a thimble associated therewith having a passage which at one end is of substantially the same diameter as the discharge opening of said pipe, and converging gradually



to the diameter of the passage through said member.

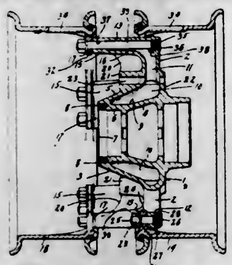
1,947,910
LIQUID GAUGE
Philip A. Jerguson, West Medford, Mass.
Application April 6, 1931. Serial No. 527,973
3 Claims. (Cl. 73—54)



1. In a gauge, the combination of a liquid container having spaced side walls and a wall connecting said side walls, said walls forming a chamber which opens through the face of said container, a U-shaped bolt closely fitting said container and particularly embracing said sidewalls, a glass plate covering said chamber and resting upon the edges of said side walls, and a cover for holding said plate in position, the arms of said bolt passing through said cover and having means clamping said plate in position on said walls.

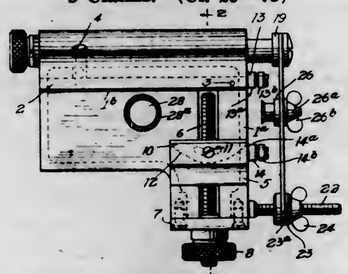
1,947,911
DUAL-TIRED TRUCK WHEEL
Lloyd D. Kay, Los Angeles, Calif., assignor to Kay-Brunner Steel Products Inc., a corporation
Application July 11, 1932. Serial No. 621,843
4 Claims. (Cl. 301—65)

1. In a cast metal dual-tired automobile wheel, the combination of a wheel-body having a hub with spokes and having a substantially conical inner shell and a substantially conical outer shell, with a cored chamber between said shells, said body having integral rim sections connecting the spokes adjacent the inboard end of the wheel, each of said rim sections having a seat in a plane substantially at right-angles to the axis of the wheel for securing the inboard tire rim, said spokes having cored chambers therein communicating with the first-named cored chamber, and the radially outer ends of said spokes having posts integral therewith and projecting in an outboard direction from the plane



of the rim sections, each post having a seat on its outer end lying in a plane substantially at right angles to the axis of the wheel, for securing the outboard tire rim, a pair of fastening bolts on each of the ring section seats, and a pair of fastening bolts on each of the posts, said posts having cored chambers communicating with the cored chambers in the said spokes.

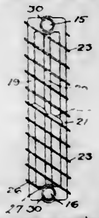
1,947,912
JEWELER'S CLAMP
Rudolph Leder, New York, N. Y.
Application August 27, 1930. Serial No. 478,114
3 Claims. (Cl. 29—75)



1. A device as characterized comprising in combination a body having a fixed and a movable jaw for clamping work therebetween, plates at the ends of the said jaws having screws for retaining said plates in separated fixed position for receiving a saw therebetween, said screws being adjustable for separating said plates more or less with respect to each other and also with respect to the body, and pins projecting between the plates above the screws for both maintaining the relative position of the plates and preventing the screws from being injured by the saw.

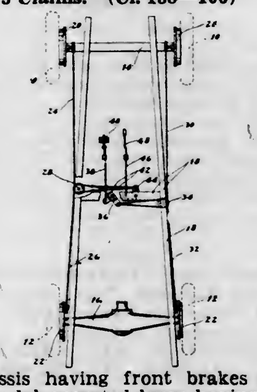
1,947,913
RADIATOR
Thomas Ernest McGrail, Montreal, Quebec, Canada, assignor to Crane Limited, Montreal, Canada
Application December 3, 1932. Serial No. 645,501
4 Claims. (Cl. 257—136)

1. In a radiator, a radiator section having a pair of headers connected by a plurality of tubes and a plurality of plate extensions forming fins obliquely crossing the tubes and slotted on either side adjacent to the tubes and directing the air



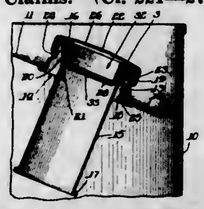
in its circulatory movements around and about said tubes in its passage through assembled sections.

1,947,914
BRAKE CONNECTION
John P. Mahoney, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application September 22, 1930
Serial No. 483,728
3 Claims. (Cl. 188—106)



1. A chassis having front brakes and rear brakes, a pedal-operated lever having one arm with a pair of cables connecting it to the left front and left rear brakes and having another arm with a pair of cables connecting it to the right front and right rear brakes, an auxiliary lever, and a pair of auxiliary cables independently connecting said auxiliary lever to two of said first mentioned cables at points intermediate the pedal operated lever and the brakes.

1,947,915
CLOSURE DEVICE
Adolph J. Marschall, Madison, Wis.
Application April 12, 1933. Serial No. 665,714
2 Claims. (Cl. 221—27)



1. A container having an opening, a neck surrounding the opening, a spout slidable inwardly and outwardly in the opening in the neck, means for limiting the movement of the spout, a closure cap for engaging the outside of the neck and

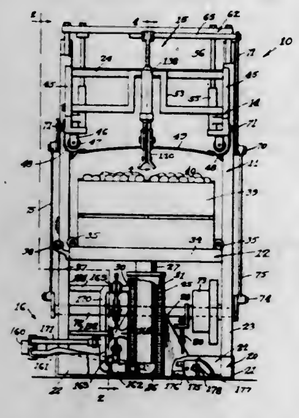
adapted for removable replacement with respect to said neck, a member adapted to be arranged in the cap to seal the opening in the neck when the cap is arranged in closed position, and means integral with the member and adapted to fit inside of the spout and frictionally engage the inner walls of the spout.

1,947,916
METHOD OF MAKING DIES
Thomas F. Mitchell, Jamaica, N. Y., assignor to Paris Art Label Co., Inc., New York, N. Y., a corporation of New York
Application June 17, 1931. Serial No. 545,019
5 Claims. (Cl. 76—107)



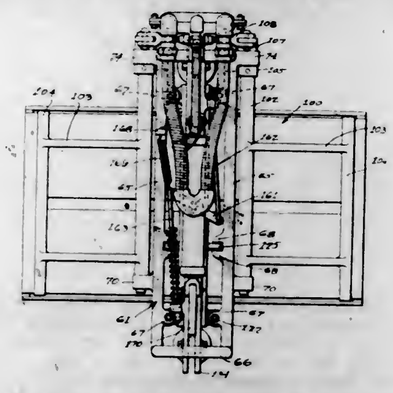
1. The method of making a die for an automatic label press which consists in delineating the design upon a foundation of relatively soft metal, hand-tooling a raised encircling cutting edge out of said metal about the peripheral edge of the foundation design, and chromium plating the foundation design and the cutting edge to provide an exceedingly hard working surface for the die.

1,947,917
LIDDING AND STRAPPING MACHINE
Hale Paxton, Redlands, Calif., assignor to Paxton Credit Corporation, Sanger, Calif., a corporation of California
Application July 31, 1931. Serial No. 554,213
19 Claims. (Cl. 140—93)



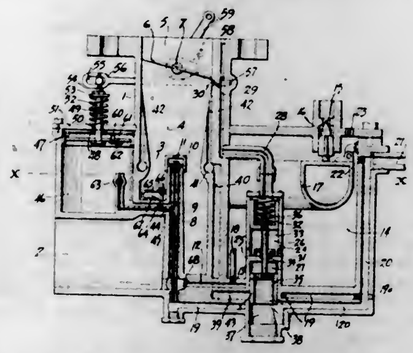
1. In a box strapping machine, the combination of: a saddle for contacting a lid positioned on a box; means for bringing said saddle and said lid together; strap positioning and securing means provided on said saddle; and means for automatically controlling the pressure with which said saddle and said lid are brought together.

1,947,918
COMBINED COVER PRESS AND STRAPPER
Hale Paxton, Redlands, Calif., assignor to Paxton Credit Corporation, Sanger, Calif., a corporation of California
Application October 3, 1931. Serial No. 566,823
21 Claims. (Cl. 140—93)



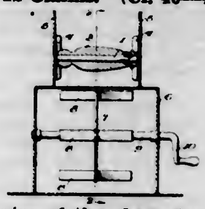
1. In a cover press, the combination of: means adapted to move downwardly to press a lid onto a crown packed box so that the lid is bowed up in the middle and ends of the lid are held down against the box ends in position to be nailed thereto; and means mounted on said lid depressing means and moving downwardly therewith to position a strap over a middle portion of said lid and secure ends of said strap to said box.

1,947,919
CARBURETOR
Augustin M. Prentiss, San Antonio, Tex., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 1, 1932. Serial No. 590,294
16 Claims. (Cl. 261—34)



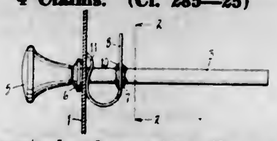
1. In a carburetor having a throttle, a mixing chamber, a liquid fuel reservoir, and means for feeding into said chamber liquid fuel from said reservoir under a continuous superatmospheric air pressure, means for feeding compressed air to said reservoir, and means actuated by said throttle for temporarily increasing said pressure when said throttle is suddenly opened whereby said liquid fuel feed is temporarily increased at the same time.

1,947,920
DISPLAY DEVICE
Donald L. Primrose, Baltimore, Md.
Application August 19, 1933. Serial No. 685,949
12 Claims. (Cl. 46—49)



1. In a device of the character described, the combination of a magnet free to reciprocate, means for guiding said magnet in its reciprocation, a second magnet supported approximately parallel with said first magnet, and means alternately moving said second magnet into and out of the magnetic field of said first magnet.

1,947,921
FASTENING
Rossiter R. Potter and Samuel G. Russell, Kalamazoo, Mich., assignors to Shakespeare Products Company, Kalamazoo, Mich.
Application June 14, 1930. Serial No. 461,129
4 Claims. (Cl. 285—25)



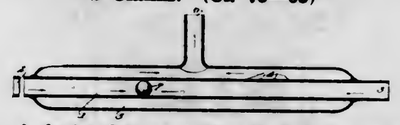
1. In a control rod mounting, the combination with a base member having an opening therein, of a tubular member having a head at one end and an annular rib spaced from said head arranged through said opening with the head on one side of said base member and the rib on the other, and a resilient U-shaped fastening having a slot in its bight end adapted to receive the tubular member when the fastening member is presented transversely thereto, one arm of said fastening member having a seat at the inner end of the slot coacting with said rib, the other arm of said fastening member being inwardly curved providing spaced parts engaging the base member on opposite sides of said tubular member.

1,947,922
SHOE CONSTRUCTION
Clarence H. Raut, Chicago, Ill.
Application October 28, 1932. Serial No. 639,937
4 Claims. (Cl. 36—71)



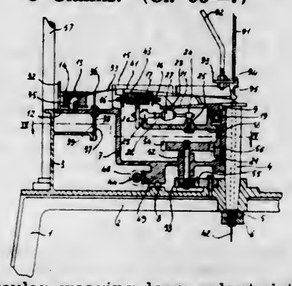
1. In a shoe, the combination of a sole, a counter of relatively stiff material having its lower edge turned inwardly and attached to the upper surface of the sole and leaving a ledge around the sole extending outwardly beyond the inturned portion of the counter, an upper of relatively soft material covering the outer face of the counter and having its lower edge secured between the sole and the inturned portion of the counter, and a reinforcing strip positioned between the upper and the counter adjacent the inturned portion of the latter with its upper edge skived to blend into the counter and its lower edge holding the upper tightly against the ledge, said lower edge of the strip being of sufficient thickness to shape the upper so that it forms a continuous unbroken surface with the side edge of the sole.

1,947,923
DEVICE FOR MEASURING THE RATIO OF THE INGREDIENTS IN A MIXTURE OF GASES OR LIQUIDS
Eugen Schweitzer, Frankfort - on - the - Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
Application April 29, 1932, Serial No. 608,332, and in Germany May 8, 1931
2 Claims. (Cl. 73—68)



1. A device for measuring the mixing proportion of two gases or liquids comprising the combination of a horizontal, cylindrical inner tube having perforations spaced longitudinally of the tube, two inlets in said inner tube for the two gases or liquids at its opposite ends, a jacket tube surrounding said inner tube and provided with an outlet and a ball in said inner tube adapted to move within said inner tube and having a diameter that is a little smaller than that of the inner tube, so that, when the two gases or liquids are introduced through the inlet openings, the position of the movable ball depends on the mixing proportion of the two gases or liquids.

1,947,924
MACHINE FOR MANUFACTURING TUBULAR FABRIC
Claude Séry, Aix-en-Provence, France, assignor to Societe a Responsabilite limitee Etablissements Rotatiss, Paris, France, a company of France
Application December 15, 1930, Serial No. 502,505, and in France December 26, 1929
8 Claims. (Cl. 96—7)



1. A circular weaving loom adapted to cover such cores as electric wires and the like, comprising in combination a rotatable warp-supporting member co-axial with the loom; a shuttle track co-axial with the loom; shuttles on said track; means to shed the warp threads; means to feed the core to be covered along the axis of the loom; means to drive said shuttles to rotate them around the axis of the loom; and means to connect said rotatable warp-supporting member with said shuttle-driving means so that the angular speed of said warp-supporting member in its

direction of rotation is substantially different from the angular speed of said shuttles in their direction of rotation.

1,947,925
WARNING SIGNAL FOR RAILWAY CROSSINGS
Marion G. Slawson, Girard, Kans.
Application January 31, 1931. Serial No. 512,674
4 Claims. (Cl. 177—329)



2. In a device of the character described, the combination with a readable sign comprising a plurality of oscillating letter bearing panels, of a longitudinally reciprocatory bar, connections between the bar and the panels whereby endwise movement of the bar moves said panels through angles of 90° only to thereby move the panels from flat to edge-wise position, electrical actuating means for said bar, a circuit in which said electrical actuating means is included, circuit making and breaking means for said circuit including a rotary disc, a motor for operating said disc, a main motor circuit, a relay, the armature of which, carries relay contacts which close the main motor circuit when said armature is attracted, an auxiliary motor circuit, means carried by the armature for completing the latter circuit by the movement of the armature of the relay to non-attracted position, mechanical means for moving said relay armature to non-attracted position means operable under the influence of the movement of the reciprocatory bar for interrupting the auxiliary motor circuit at the limit of movement of said bar in one direction, electrically operated latching means for latching the said bar in clear edge-wise position, a circuit in which the said latching means is included, and means for closing the latter circuit upon movement of the relay armature to non-attracted position.

1,947,926
SEED GRAIN DRESSINGS AND PROCESS OF PREPARING THEM
Adolf Steindorff, Kaspar Pfaff, and Michael Erlenbach, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application August 2, 1930, Serial No. 472,754, and in Germany September 26, 1929
3 Claims. (Cl. 167—38)

2. A seed grain dressing composition comprising as an active ingredient tetra-halogeno-benzene.

1,947,927
METHOD OF TREATING SPRINGS
Paul Otto Friedrich Vorwerk, Volklingen-on-the-Saar, Germany, assignor to Corporation of Edelstahlwerk Rochling Aktiengesellschaft, Volklingen-on-the-Saar, Germany
No Drawing. Application October 10, 1930, Serial No. 487,920, and in Germany October 16, 1929
5 Claims. (Cl. 148—12)

1. A method of increasing the resistance of springs against fatigue which comprises compacting the surface layers of said spring by blasting the surface with hard small bodies, said small bodies being free from sharp edges and points.

1,947,928
PROCESS OF IMPROVING OR MODIFYING ACETYL CELLULOSE TEXTILE MATERIAL
Karl Beck, Berlin-Charlottenburg, Germany
No Drawing. Application January 27, 1931, Serial No. 511,652, and in Germany February 5, 1930
4 Claims. (Cl. 28—1)

1. Process of improving or modifying acetate silk textile material, which comprises uniformly treating the same with a strong aqueous solution of formaldehyde containing dissolved therein a monatomic aliphatic alcohol amounting to from 10% to 30% by volume of said solution and thereafter freeing the textile material from said solution.

1,947,929
RESTRICTOR
Luigi Emanueli, Milan, Italy, assignor to Società Italiana Pirelli, a company of Italy
Application September 17, 1929, Serial No. 393,234, and in Great Britain August 17, 1929
4 Claims. (Cl. 137—75)

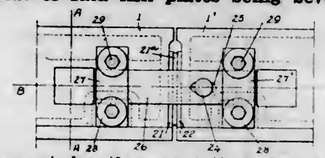


4. A restrictor for the purpose described comprising a diaphragm having a plurality of orifices of predetermined area, and a series of cells on opposite sides of the diaphragm, each cell communicating with two other cells located on the opposite side of the diaphragm through two of the said orifices, respectively.

1,947,930
SURFACING APPARATUS
Paul Joseph Maximilien Escole, Jeumont, France, assignor to Forges & Ateliers de Constructions Electriques de Jeumont, Paris, France, a joint-stock company of France
Original application June 10, 1932, Serial No. 616,560, and in Germany February 13, 1932. Divided and this application March 8, 1933. Serial No. 660,066
2 Claims. (Cl. 51—240)

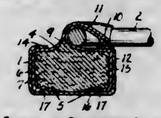
1. In a continuous surfacing apparatus of the character described, means for connecting adjacent conveyor tables together in close order during their movement along the guide line, said connecting means comprising fish-plates of trapezoidal section engaging in corresponding grooves upon the sides of the tables, clamps mounted upon said tables across said grooves, and means for loosely holding said fish-plates

with one end engaged in one of said grooves, the ends of said fish plates being bevelled for



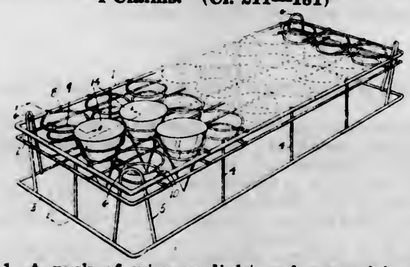
engagement by the respective clamps at the approach of the respective tables to one another at the starting point of the guide line.

1,947,931
SPRING STRUCTURE
William A. Falls, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich.
Application April 19, 1933. Serial No. 666,813
2 Claims. (Cl. 155—180)



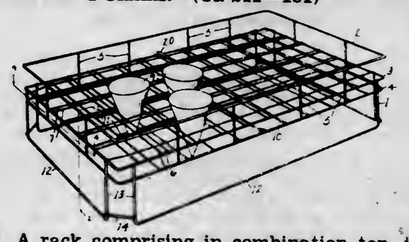
2. A border frame for spring structures comprising a downwardly facing sheet metal channel of rectangular cross section and having an integral clamping flange for a supported part resting on the top of the channel, said channel having a tacking strip fitted therein, the edges of the flanges of the channel being folded over the under side of the tacking strip to retain the same and to expose a midportion thereof, said clamping flange being formed of a midportion of the web of the channel folded into a continuous longitudinal double walled angular flange inwardly spaced from the outer edge of the channel, and a coupling sleeve of channel cross section embracing end abutting parts of said frame, the edges of the coupling sleeve being folded upon the top of the channel at opposite sides of said clamping flange, the web of said coupling having a plurality of holes therein to expose portions of said tacking strip between said clamping edges of said channel to receive upholstery securing tacks.

1,947,932
RACK
Harry H. Fante, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich.
Application March 20, 1933. Serial No. 661,854
4 Claims. (Cl. 211—181)



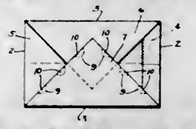
1. A rack of wire or light rod comprising in combination, spaced parallel substantially rectangular top, intermediate and bottom frames, spaced uprights disposed on the inner sides of said frames, holders for conical cups on said top and intermediate frames and consisting of coacting pairs of transverse members looped or bowed in opposed relation and longitudinal members disposed in crossing relation between the loops, and means uniting the parts in assembled relation.

1,947,933
RACK
Harry H. Fante, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich.
Application March 20, 1933. Serial No. 661,855
4 Claims. (Cl. 211—181)



1. A rack comprising in combination top, intermediate and lower frames, uprights secured to said frames and connecting the same in assembled relation, longitudinal and transverse members secured at their ends to said intermediate frame and forming spaced longitudinal and transverse rows of openings, spaced lower transverse members secured at their ends to said lower frame, there being a lower transverse member below and offset from the center of each transverse row of openings, substantially U-shaped supporting members having the uprights thereof spaced from the corners of the frames and secured to said intermediate and lower frames and diagonal corner pieces arranged in a plane spaced from the bottom of said supporting members and secured to the corner uprights thereof whereby to provide supports engageable with the corners of the top frame of a similar rack on which the rack is stacked, the supporting members of the upper rack overlapping the top frame of the lower rack.

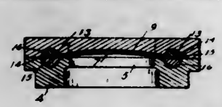
1,947,934
CONTAINER
William J. Geimer, Minneapolis, Minn., assignor to Bemis Bro. Bag Co., Minneapolis, Minn., a corporation of Missouri
Application December 9, 1931. Serial No. 579,912
1 Claim. (Cl. 229—62)



A bag made of flexible, foldable material comprising a plurality of walls cooperating to provide the body of the bag and having portions forming the walls of the bag mouth, said wall portions being folded into a plurality of closure flaps which flaps are folded in overlapping relation and secured together to seal the top of the bag, at least one of said flaps being composed of a plurality of plies of material adapted to be separated to provide a space communicating with the interior of the bag, and said last-mentioned flap being substantially triangular in configuration and having a plural-

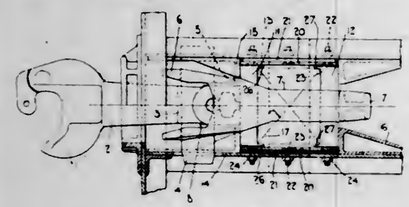
ity of spaced score marks in its edges whereby portions of said flap may readily be torn or detached therefrom to provide suitable apertures or openings through which the contents of the bag may be discharged or sifted, when the flap is unsealed and without unsealing the remaining flaps.

1,947,935
VALVE
Jesse G. Gibson, Bradford, Pa., assignor of fifty-one per cent to Bovaird and Company, Bradford, Pa., a copartnership composed of George W. Bovaird and Joseph H. Bovaird
Application October 13, 1932. Serial No. 637,605
8 Claims. (Cl. 277—46)



1. In a valve, the combination of a seat having a valve opening; a resilient feather valve plate closing the seat; a guard for the feather plate; and a pivot pin at each end of the feather plate rocking with a flexure of the feather plate, the plate being slidingly mounted for endwise movement in at least one of the pins.

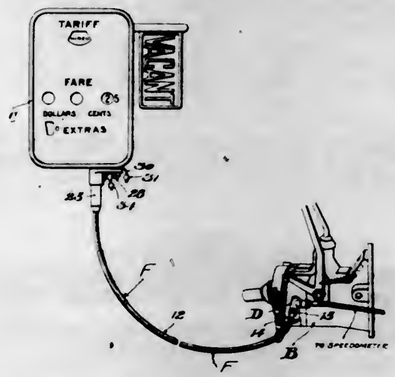
1,947,936
CENTRAL BUFFING AND DRAFT GEAR
Richard Thomson Glascodine, London, England
Application June 29, 1931, Serial No. 547,702, and in Great Britain September 16, 1930
4 Claims. (Cl. 213—50)



1. In central buffing and draft gear, a coupler shank, front and rear followers disposed between the centre sills in rear of said shank, buffing and draft springs between said followers, liner plates secured to the centre sills forming lateral guides for said followers, and cushions of india-rubber interposed between said liner plates and the centre sills operative to prevent the transmission of lateral vibration and to cushion the lateral component of the impact stress when buffing on curves.

1,947,937
DRIVE MECHANISM FOR TAXIMETERS
Fred Hennig, Pittsburgh, Pa., assignor to Pittsburgh Taximeter Company, Pittsburgh, Pa., a corporation
Application March 14, 1931. Serial No. 522,771
3 Claims. (Cl. 64—12)

1. A drive mechanism of the character described comprising, in combination, a device to be driven, a power shaft, a housing element enclosing said shaft, a flexible shaft drive connection between said power shaft and said device, a flexible casing housing said flexible shaft, a ferrule rigid with one end of said casing and threaded to said housing element, a ferrule rigid with the other end of said casing and non-rotatably interlocked with a part of the device to be driven, a nut securing the last mentioned ferrule in interlocked engagement with said device part, and means for sealing said nut.



1,947,938
PROCESS OF MAKING A NEW COMPOSITION OF MATTER AND THE PRODUCT THEREOF
Ernest Hey, Bellingham, Wash.
Application March 23, 1929. Serial No. 349,456
5 Claims. (Cl. 148—24)

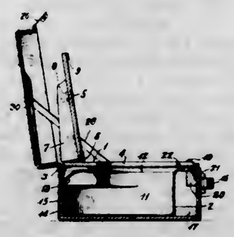


1. The process of making the composition of matter described comprising the step of regulating the rate of reacting upon zinc in extended integral form with a solution which includes tin dissolved in acid until from the reaction products a gas distended, coherent, sponge-like body is developed about said zinc, said regulating including adjusting the force of reaction by changing the strength of the acid metal solution to the buoyant force of said solution upon the said sponge-like body so that said buoyant force is of a magnitude less than that required to detach said body from said zinc.

1,947,939
NEW COPPER OXIDE-AMMONIA CELLULOSE SOLUTIONS
Emil Hubert and Karl Weisbrod, Elberfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Application October 3, 1928, Serial No. 310,178, and in Germany October 10, 1927
8 Claims. (Cl. 106—40)

5. The process which comprises preparing a cellulose solution in aqueous copper-oxide-ammonia in the presence of a cyanide selected from the group consisting of inorganic cyanides soluble in aqueous copper-oxide-ammonia and cyanacetamide.

1,947,940
CHILD'S TRAVELING CASE TOILET AND CHAMBER THEREFOR
Elizabeth V. Isom, Mitchell, Ind.
Application September 16, 1932
Serial No. 633,526
4 Claims. (Cl. 4—137)



1. A child's portable toilet comprising a traveling case having a handle and adapted to be carried by hand, said case having a body portion and a lid hinged thereto, a toilet seat hinged to said case between the body portion and lid and having a toilet opening, a cover for said opening hinged to said seat, bracing means on said cover for supporting said cover in raised position to form a back rest for the child, a chamber in the body portion of said case beneath said seat and means for holding said chamber in fixed position when said case is in position for use of said toilet seat or is in position to be carried.

1,947,941
APPARATUS FOR TREATING CONCRETE AND LIKE PLASTIC MATERIALS
Corwill Jackson, Ludington, Mich.
Application September 6, 1932. Serial No. 631,806
10 Claims. (Cl. 25—1)



1. An apparatus for treating concrete and like plastic materials comprising an electric motor provided with an unbalancing weight, a closed cylindrical housing for said motor provided with a downwardly tapered portion at its lower end terminating in crossed blades and having a shouldered neck portion at its upper end, a tubular handle adapted as a cable conduit and having a downwardly flared portion at its lower end, and a resilient tapered tubular coupling having its lower end sleeved and clamped upon said housing neck and its upper end telescoped and clamped within the flared portion of said handle.

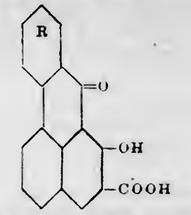
1,947,942
DRAWER PULL
Isaac S. Keeler, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich.
Application October 29, 1932. Serial No. 640,221
4 Claims. (Cl. 16—126)



1. A drawer pull provided with a sheet metal plate having a stud receiving hole, and a stud of sheet metal similar to that of said plate and having a longitudinal split, the exterior surface of the stem engaging the interior surface of the hole, said stem having an annular shoulder engaging the front of said plate and a diametrically disposed integral lateral flange engaging the back of said plate, whereby to clamp the plate therebetween, the plane of said flange being substantially normal to the direction of the split, the wall of the hole fitting said stem and acting to help reinforce the same against opening at said split.

1,947,943
PROCESS OF PREPARING CONDENSATION PRODUCTS OF THE BENZANTHRONE SERIES AND NEW PRODUCTS OBTAINABLE THEREBY
Georg Kraenzlein, Frankfort-on-the-Main-Hochst, and Martin Corell, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application January 27, 1930, Serial No. 423,893, and in Germany February 7, 1929
8 Claims. (Cl. 260—61)

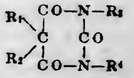
8. The compounds of the following formula:



wherein the benzene nucleus R may contain a halogen atom as a substituent, crystallizing from glacial acetic acid and showing a fluorescence in a concentrated sulfuric acid solution.

1,947,944
N-ALKYLATED DERIVATIVES OF BARBITURIC ACID
Walter Kropp and Ludwig Taub, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application May 12, 1932, Serial No. 610,982, and in Germany May 16, 1931
7 Claims. (Cl. 260—33)

1. N-alkylated derivatives of the barbituric acid series of the general formula:

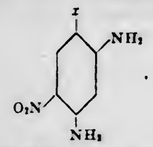


wherein R_1 is a cyclo-alkenyl group, R_2 and R_3 are alkyl or alkenyl radicals, R_4 is hydrogen, al-

kyl, alkenyl or metal selected from the group consisting of alkali- and alkaline earth metals, which barbituric acid derivatives are generally whitish crystalline products, soluble in hot alcohol, being soluble with difficulty in cold water, and the products wherein only one nitrogen atom is alkylated form salts and are therefore easily soluble in dilute caustic soda lye.

1,947,945
AZO DYES
Werner Lange, Dessau-Ziebigk in Anhalt, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application January 4, 1933, Serial No. 650,163, and in Germany May 6, 1932
16 Claims. (Cl. 260—72)

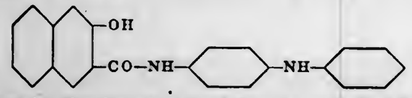
1. The process which comprises monodiazotizing a meta-diamine of the benzene series of the general formula



wherein x means alkyl or —O· alkyl, and coupling the monodiazo compound with an azo component.

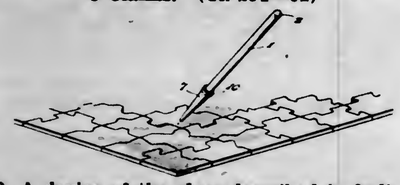
1,947,946
AZODYESTUFFS INSOLUBLE IN WATER AND PROCESS OF MAKING SAME
Leopold Laska and Arthur Zitscher, Offenbach-on-the-Main, Germany, assignors to General Aniline Works Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application May 3, 1929, Serial No. 360,308, and in Germany May 7, 1928
16 Claims. (260—79)

1. A process which comprises combining any diazo compound of the benzene, naphthalene or anthracene series with a 4-(2'-hydroxy-3'-naphthoyl-amino)-diphenylamine compound of the general formula:



wherein the benzene nuclei may contain alkyl, alkoxy, halogen or nitro, substituents, none of these components containing sulfonic or carboxylic acid groups.

1,947,947
PUZZLE SECTION CARRYING DEVICE
Allan J. Liebl, Sheboygan, Wis.
Application April 21, 1933. Serial No. 667,279
3 Claims. (Cl. 294—61)



2. A device of the class described including a handle portion having a tapered lower end portion, a pin carried by said tapered lower end, said handle portion being formed with an elongated slot, a tapered knock-off sleeve slidable on the tapered lower end portion and having an annular collar, a stud carried by the collar and adapted to slidably engage in the slot, said stud and slot cooperating for slidably connecting the tapered knock-off sleeve with the tapered lower end portion, said knock-off sleeve being shiftable downwardly by the weight of said collar for engaging a surface of an article and freeing said surface from the pin.

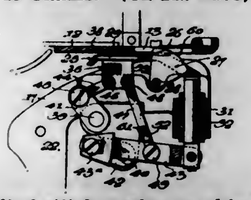
1,947,948
METHOD FOR THE PRODUCTION OF ZINC SHEETS PARTICULARLY ADAPTED FOR USE IN GALVANIC CELLS
Paul Mittmann, Ludenscheid in Westfalen, Germany, assignor to American Lurgi Corporation, New York, N. Y., a corporation of New York
No Drawing. Application April 15, 1931. Serial No. 530,443, and in Germany April 19, 1930
6 Claims. (Cl. 148—11.5)

1. A method for the production of zinc sheets particularly adapted for use in galvanic cells which comprises casting relatively thin zinc plates at a temperature of from about 420°–440° C., rolling said plates into sheets in the usual manner, and thereafter cold rolling the sheets.

1,947,949
PROCESS FOR PRODUCING RUBBER POOR IN ALBUMEN
Hermann Miedel, Frankfort-on-the-Main, Germany, assignor to Revertex Limited, London, England, a corporation of England
No Drawing. Application January 30, 1931, Serial No. 512,493, and in Germany February 11, 1930
3 Claims. (Cl. 18—50)

3. A process for the production of rubber poor in albumen and suitable for electrical insulation material, especially for submarine cables, from rubber latices, which consists of the following steps: heating the latices with dilute alkali, for at least one hour, at temperatures below the boiling point, at ordinary pressure, diluting the reaction mixture so as to reduce the rubber content thereof to about 5%, precipitating the rubber from the resulting liquid system, and separating and washing the precipitated rubber.

1,947,950
BLIND STITCH SEWING MACHINES
Charles W. Mueller, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine
Application December 15, 1931. Serial No. 581,218
15 Claims. (Cl. 112—178)



1. In a blind stitch sewing machine; the combination with a stationary presser foot; of a stitch forming mechanism operating thereabove and including a reciprocatory needle; an oscillatory disc supported below the foot for projecting a ridge of material upwardly through the foot into the path of the needle; a 4-motion feed dog disposed below and cooperating with the foot to feed the ridge of material into needle penetrating position; and means for imparting the backward and forward movements to the feed dog simultaneously with the backward and forward oscillatory movements of the ridge forming element.

1,947,951
ACIDYL POLYALKYLENE POLYAMINES
Wilhelm Neelmeier, Theodor Nocken, and Hermann Friedrich, Leverkusen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application May 27, 1930, Serial No. 456,280, and in Germany May 29, 1929
20 Claims. (Cl. 260—124)

20. Condensation products of aliphatic fatty acids and polyalkylene polyamines of the probable general formula:

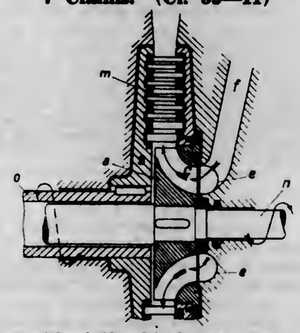
$$Y—CO—NH—A—Z$$

wherein A represents the group CHR—CHR$_1$—NH—of which there are two or more serially arranged, R and R$_1$ standing for hydrogen or methyl, wherein Y stands for an aliphatic hydrocarbon radical containing at least 9 carbon atoms which hydrocarbon radical may contain one or more double bonds and may be substituted by hydroxy groups, and Z stands for hydrogen or the acidyl radical of an aliphatic acid containing at least 10 carbon atoms, being oily or solid substances, the monoacidyl products being soluble in dilute hydrochloric acid, acetic acid, alcohol, fat, insoluble in water and alkalies, and the diacidyl compounds being soluble in hot alcohol, insoluble in hydrochloric acid, alkalies and water, being valuable wetting agents or intermediate products in the manufacture of wetting agents.

1,947,952
PROCESS OF PREPARING ALKALINE EARTH METAL OXIDES
Oswin Nitzschke, Leverkusen - on - the - Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
No Drawing. Application September 20, 1930, Serial No. 483,384, and in Germany October 1, 1929
3 Claims. (Cl. 23—186)

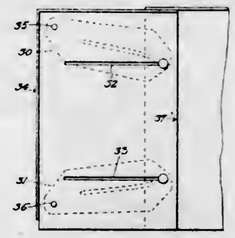
1. A process of preparing alkaline earth metal oxides which comprises heating an alkaline earth metal carbonate at 700–1000° C. in a hydrogen atmosphere in the presence of carbonaceous matter.

1,947,953
BEATER BAR MILL WITH TWO BEATER BAR DISKS ROTATING RAPIDLY IN OPPOSITE DIRECTIONS
Josef Otto, Cologne-Lindenthal, Germany
Application June 12, 1931, Serial No. 543,984, and in Germany June 13, 1930
7 Claims. (Cl. 83—11)



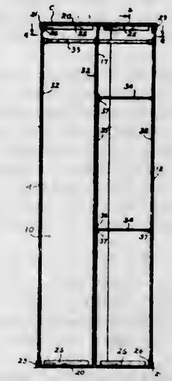
1. In a mill of the kind described, a pair of coaxial and independently rotatable shafts adapted to rotate in opposite directions, a hub on one of said shafts provided with an annular peripheral channel and with an opening leading from said channel through an end of the hub, helical feeder means extending from the opening in the end face of the hub to the other end of the hub, a disk carried by said hub, a second disk carried by the remaining shaft and spaced from the first disk, and beater bars carried by the proximal faces of said disks with the bars of one disk interposed between the bars of the other disk.

1,947,954
WALL AND FLOOR STOP
Elisha F. Piland, Newport News, Va.
Application October 31, 1932. Serial No. 640,563
7 Claims. (Cl. 20—4)



1. A wall or floor stop of the type described for installation between the side members and studding or joists of a wall or floor construction, comprising a pair of plates having flanges for attachment to one of the side members and to each of two adjacent joists, said plates being slidable relative to each other, the stop being thereby adjustable in length, pin and slot connection means connecting the plates slidable relative to each other, and shield means on the plates for covering the slot means of the pin and slot connection means.

1,947,955
COLLAPSIBLE WARDROBE
Abraham Stone, Brooklyn, N. Y.
Application July 6, 1933. Serial No. 679,196
7 Claims. (Cl. 312—144)



7. In a knock-down wardrobe, a body section including hingedly connected rear and side walls and a vertical partition hingedly connected to the

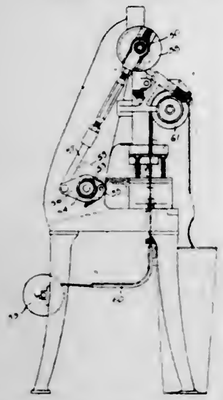
rear wall so that said walls and partition lie in substantially parallel planes when in collapsed condition and are swingable from a collapsed condition to a set up condition, and base and cover sections so constructed and arranged as to interfit with the upper and lower edges of the rear and side walls and with the partition to thereby hold the said walls and partition in fixed set-up condition.

1,947,956

FASTENER FORMING AND ASSEMBLING MACHINE AND METHOD OF SECURING FASTENER ELEMENTS TO TAPE

Gideon Sundback, Meadville, Pa., assignor to Hookless Fastener Company, Meadville, Pa., a corporation of Pennsylvania

Application December 19, 1928
Serial No. 327,060
27 Claims. (Cl. 153—1)



1. A machine for forming fastener elements and attaching the same to a strip and comprising a bed, a reciprocating head moving toward and from the bed, means for intermittently feeding metal stock across the bed beneath the head, cooperating means carried by the bed and head for forming fastener elements from said metal stock and separating the formed fastener elements one at a time from the stock, means for supporting and feeding the strip, and means actuated by said head for moving each fastener element as it is separated from the stock into engagement with the strip and for fastening the same to the strip.

21. The method of forming fastener elements of the type having spaced clamping jaws at one end and an interlocking projection and recess at the other end, including feeding a flat piece of metal, forming said projection and recess, cutting out portions to provide spaces between the clamping jaws of each element and afterwards severing the elements from the strip, said cutting out and severing being performed in separate operations.

1,947,957

WORKHOLDER

John R. Tillman, Bridgeport, Conn., assignor to The Bullard Company, a corporation of Connecticut

Application August 11, 1932. Serial No. 628,312
14 Claims. (Cl. 279—106)

1. In a work holder, the combination of an axially moving body, a pair of work-engaging arms pivotally mounted within the body, their ends being adapted to extend through the walls of the body, and means for axially moving the



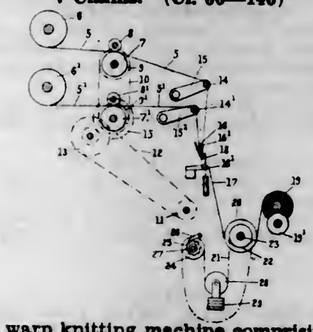
body, said means being adapted to cause pivotal movements of said arms.

1,947,958

KNITTING MACHINE

Sidney Arthur Welch, Albert Fairholme Guyler, John Thomas Ashby, and William Henry Boaler, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

Application April 10, 1931, Serial No. 529,034, and in Great Britain June 16, 1930
7 Claims. (Cl. 66—146)



1. A warp knitting machine comprising a pair of nipping rollers adapted to be driven at a constant speed so as to feed the warp threads at a substantially constant rate to the needles of the machine, wherein one of said rollers is provided with a number of helical grooves running in opposite directions along its surface and forming a lozenge pattern thereon so as to provide an interrupted line of contact between the rollers which permits any slack threads to be pulled therethrough by the tension imparted to the threads during knitting, and means interposed between the feed rollers and the needles to maintain the tension in each thread substantially constant during knitting.

1,947,959

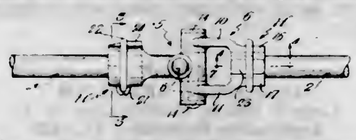
UNIVERSAL JOINT

Belvin T. Williston, Somerville, Mass., assignor to Consolidated Ashcroft Hancock Company, New York, N. Y., a corporation of Delaware

Application March 27, 1931. Serial No. 525,633
6 Claims. (Cl. 64—102)

1. A universal joint comprising a pair of shafts disposed substantially at right angles to each other and a yoke member mounted on each shaft,

each yoke member comprising a pair of spaced arms, each arm being integral with one of a pair of complemental separable parts adapted when assembled to form the hub of the yoke member,



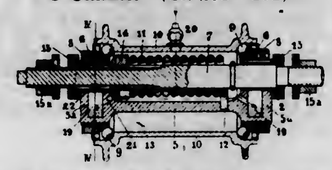
a stiffly resilient ring adapted to embrace the parts constituting the hub of each yoke releasably to hold said parts in assembled relation, and means permanently securing each of said rings to its respective yoke structure.

1,947,960

VEHICLE WHEEL HUB

Franz Winkler, Schweinfurt, Germany

Application July 28, 1932, Serial No. 625,323, and in Germany July 29, 1931
3 Claims. (Cl. 208—101)



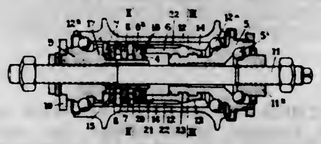
1. In a springy wheel hub, the combination with a hub shell, of a wheel axle, an integral intermediate bearing body eccentrically rotatably placed on the said wheel axle and having bearings for the hub shell, said bearing body being recessed in its center portion so as to be U-shaped in section, and a spring arranged to interconnect the wheel axle and the bearing body and capable of restoring the normal relative position of all parts of the springy wheel hub.

1,947,961

FREE WHEEL HUB WITH COASTER BRAKE

Franz Winkler, Schweinfurt, Germany

Application August 25, 1932, Serial No. 630,365, and in Germany August 25, 1931
4 Claims. (Cl. 192—6)



1. In a free wheel hub with coaster brake, the combination with an axle, of a hub shell having an inner conical projection and a plurality of longitudinal grooves through the said projection and the inner surface of the hub shell, a driver, a conical coupling member axially movable on said driver and adapted to be engaged with the conical projection, and a disc brake of which the outer discs engage in the said grooves.

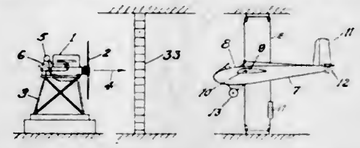
1,947,962

AERONAUTIC TRAINING APPARATUS

Heraclio Alfaro, East Cleveland, Ohio

Application October 30, 1930. Serial No. 492,236
16 Claims. (Cl. 35—12)

1. Aeronautical training apparatus comprising an airplane having wings, movable controlling surfaces and controlling means under the control of an operator in the cockpit, means for anchoring and counter-balancing said airplane, said airplane being connected to the anchoring and counter-balancing means for movements bodily up and down and for angular movements, and means for controlling the responsiveness of the airplane to movements of said control elements.

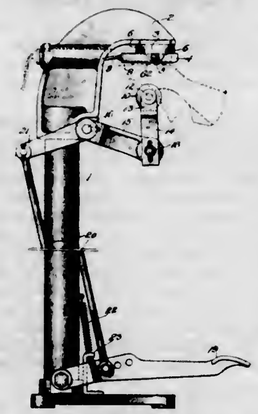


1,947,963

SHOE BOTTOM FILLING MACHINE

Alfred H. Avery, Malden, Mass., assignor to North American Chemical Company, Cambridge, Mass., a corporation of Massachusetts

Application September 11, 1930
Serial No. 481,129
12 Claims. (Cl. 18—1)



1. A shoe bottom filling machine comprising a substantially flat faced, tilting abutment member adapted to spread and smooth filler material in a shoe bottom cavity, a presser member adapted to press a portion of filler material carried in the bottom cavity of a shoe into spreading engagement with the abutment member, said presser member constituting the sole shoe supporting member, and the machine having an unobstructed space in front of the presser member for permitting said freedom of manipulation of the shoe, one of said members being movable relatively to the other, and means to actuate the movable member.

1,947,964

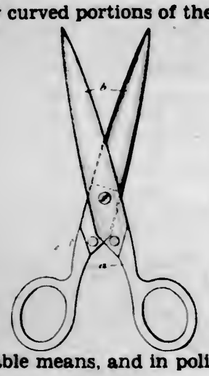
MANUFACTURE OF SCISSORS

Hugo Beckmann, Ohligs, Germany

Application November 29, 1932, Serial No. 644,843, and in Germany December 4, 1931
1 Claim. (Cl. 76—104)

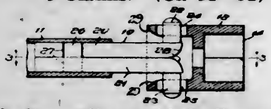
A method of producing scissors having separately made hollow cutting blades and handle members, which consists in stamping the handle members, stamping out the cutting blades from a bright piece of tapered steel, hollow-pressing the cutting blades, attaching the blades to cor-

respondingly curved portions of the handle mem-



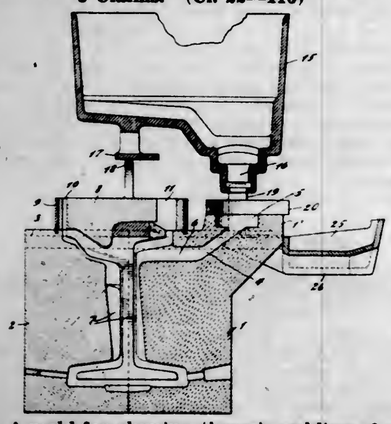
bers by suitable means, and in polishing the cutting blades.

1,947,965
COUPLING DEVICE
Paul W. Beggs, Chicago, Ill., assignor, by mesne assignments, to Jas. P. Marsh Corporation, Chicago, Ill., a corporation of Illinois
Application August 23, 1930. Serial No. 477,359
6 Claims. (Cl. 64—91)



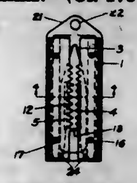
1. A shaft coupling, said shaft coupling including a pair of members, each of said members having a lateral projection provided at one end, a shaft section provided with a socket having holes in diametrically opposite side walls into which said lateral projections fit to prevent relative rotative motion of said shaft section and members, said members being curved at the ends adjacent the lateral projections to provide for relative rotative movement of said members, a tubular shaft section into which the opposite end of said members is inserted and interfitting means on said members within said tubular shaft section for preventing relative movement of said members.

1,947,966
RAIL WELDING MOLD
Edward F. Begtrup, Jersey City, N. J.
Application February 16, 1933. Serial No. 656,995
3 Claims. (Cl. 22—116)



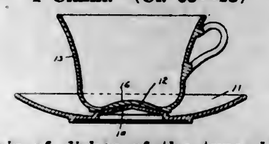
1. A mold for alumino-thermic welding of rails and the like, comprising body and cope sections, said body section having a pouring gate at one side of the top thereof and a rim surrounding the inlet of the gate on three sides and serving to divert excess metal and slag away from the mold, said rim being removably mounted on the top of the mold.

1,947,967
LIGHTNING ARRESTER
Leon S. Brach, East Orange, N. J.
Application September 21, 1932
Serial No. 634,127
16 Claims. (Cl. 175—36)



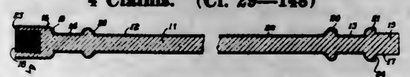
1. A lightning arrester for the purpose described, including an insulator having a longitudinal groove therein, contact plates mounted on opposite sides of said insulator and having portions bent over said groove to form an air gap therebetween, a sealed tube, positioned within said groove, having a pair of spaced sealed-in electrodes and having said electrodes electrically connected to said contact plates.

1,947,968
CUP AND SAUCER AND SIMILAR ARTICLES
Henry W. Briese, Jamaica, N. Y.
Application March 4, 1932. Serial No. 596,689
1 Claim. (Cl. 65—13)



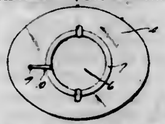
In a pair of dishes of the type described; a straight, upwardly extending projection formed on the upper side of the lower dish; said projection terminating in an extreme obtuse cone; and a co-acting, cone-shaped depression formed in the bottom of the upper dish; said projection and said depression being of complemental shapes so as to be capable of snug-fitting, mating engagement.

1,947,969
METHOD OF MAKING SUCKER RODS
Vere B. Browne, Brackenridge, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa., a corporation of Pennsylvania
Original application January 2, 1930, Serial No. 417,925. Divided and this application October 10, 1931. Serial No. 568,053
4 Claims. (Cl. 29—148)



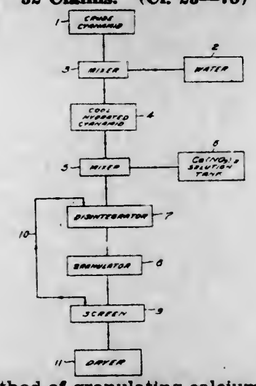
1. A method of forming a sucker rod having a non-corrodible surface including the steps of making a steel core, forming a tube of non-corrodible chromium nickel alloy steel substantially coextensive with said core, shrinking the tube on the core to form a substantially unitary rod, the mating surfaces having been previously rendered smoothly interfitting, rolling, forging or otherwise suitably shaping the whole, and finally tempering it.

1,947,970
CUSPIDOR STAND
Carmine M. Conforti and Folke Frederick Norden, New York, N. Y.
Application November 2, 1932. Serial No. 640,768
2 Claims. (Cl. 4—258)



1. In a stand, a top, legs supporting the top, a cover plate secured horizontally between the legs below the top, an operating shaft journaled vertically through the top and cover plate adjacent their margins, a handle secured to the upper end of the operating shaft. and a cuspidor carrier secured to the lower end of the operating shaft below the cover plate.

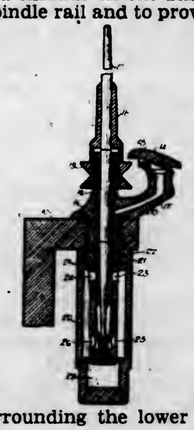
1,947,971
METHOD OF GRANULATING CYANAMIDE
George E. Cox, Niagara Falls, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application April 27, 1932. Serial No. 607,791
32 Claims. (Cl. 23—78)



1. A method of granulating calcium cyanamide which comprises the steps of completely hydrating said cyanamide, cooling the same, treating the same with a solution of an alkaline metal salt, granulating the mixture and quickly drying the granules until the free water content thereof is below 5%.

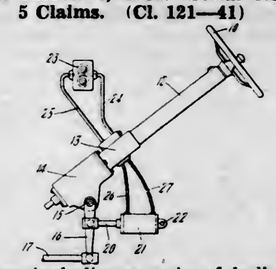
1,947,972
LUBRICATING MEANS FOR SPINDLES
Alexander R. Davis, Charlotte, N. C.
Application October 14, 1932. Serial No. 637,737
2 Claims. (Cl. 118—63)

1. In a spindle base for fiber preparation machinery, twisting and twining machinery, and the like, having a bolster, mounted in said base and a spindle rotatably mounted in said bolster, said bolster having openings in the lower portion thereof for lubrication of said spindle, the lower portion of said base being provided with perforations adjacent said openings, said base having other said perforation disposed above said openings and adjacent the periphery of said bolster, exteriorly disposed threads on said base serving for the reception of threaded means for securing the base to a spindle rail, a hollow member having its lower end closed and having a restricted threaded opening in its upper end adapted to engage said threads on the base to secure the base to the spindle rail and to provide a lubricant



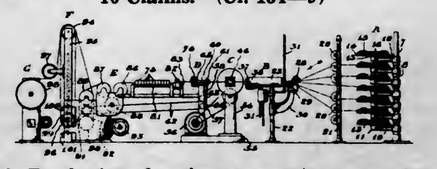
container surrounding the lower portion of the base.

1,947,973
HYDRAULIC STEERING MECHANISM WITH REMOTE POWER UNIT
Francis W. Davis, Waltham, Mass.
Application March 4, 1931. Serial No. 519,952
5 Claims. (Cl. 121—41)



1. A valve including a pair of hollow nested cylindrical elements capable of limited relative rotation, the outer element having longitudinal grooves in its inner surface, the inner element having longitudinal grooves in its outer surface, each of said elements also having ports through its wall communicating with certain of said grooves, said ports and grooves forming a plurality of conduits from the exterior of the outer element to the interior of the inner element, the cross sections of said conduits being variable by alteration of the angular relation between said elements.

1,947,974
APPARATUS FOR INSULATING AND WRAPPING TIRE BEAD WIRE
Harold A. Denmire, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application May 30, 1930. Serial No. 457,636
10 Claims. (Cl. 154—9)

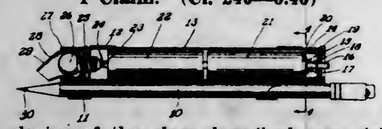


1. Bead ring forming apparatus comprising mechanism for continuously forming delivering a

wire reinforced raw rubber tape, an intermittently operating bead ring machine to which the tape is delivered, a festooning device interposed between the tape forming mechanism and bead ring machine, and means operated by the festooning device for controlling the operation of the tape forming mechanism.

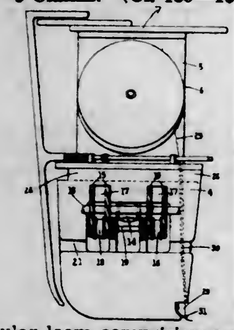
4. In a bead ring forming machine, the combination with means for continuously feeding a tape in endwise direction, of a wrapping mechanism comprising a tubular shaft through which the tape passes, means for supporting and driving said shaft, a reel coaxial with said tubular shaft and rotatably mounted thereon, and guiding means rotatable with said shaft for guiding a binding strand from the reel to the tape.

1,947,975
SELECTIVE CONTACT ILLUMINATOR PEN AND PENCIL
John Dianovsky, Passaic, N. J.
Application June 26, 1931, Serial No. 546,982
Renewed October 5, 1933
1 Claim. (Cl. 240—6.46)



A device of the class described comprising a cylindrical housing open at one end and having a cylindrical block threadably mounted therein, said block being hollowed out at its forward end and having a wall at its rearward end, said wall having a threaded bore therein adapted to receive a filament lamp, an elbow-shaped reflector with one arm slidably mounted in said hollowed-out end of said block, said reflector surrounding said lamp and the other arm being inclined thereto and projecting out of said housing, and means for energizing said lamp.

1,947,976
TEXTILE MACHINERY
William Alexander Dickie and William Howarth, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application August 4, 1932, Serial No. 627,406, and in Great Britain August 11, 1931
5 Claims. (Cl. 139—13)

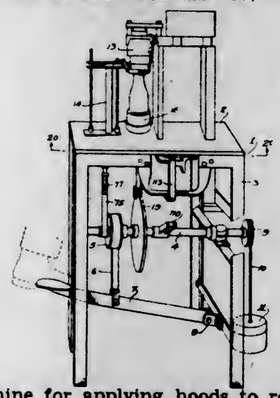


1. A circular loom comprising a spool-holding shuttle extending to the fell of the fabric, means for supporting said shuttle so that it presses against the fell of the fabric and beats-up weft laid within the warp shed, and a comb having teeth adapted to penetrate and control the spacing of one sheet of the warp shed, said shuttle being provided with means to guide weft from the spool round the projecting teeth of the comb to the fell of the fabric.

1,947,977
MANUFACTURE OF ALIPHATIC ANHYDRIDES
Henry Dreyfus, London, England
No Drawing. Application May 25, 1929, Serial No. 366,097, and in Great Britain June 7, 1928
19 Claims. (Cl. 260—123)

1. Process for the manufacture of an aliphatic anhydride which comprises subjecting the vapor of an aliphatic acid to thermal decomposition in presence of at least one aliphatic polyhydroxy compound containing at least two groups of formula OX, where X is hydrogen or a saturated lower alkacyl residue, said groups being attached to separate carbon atoms.

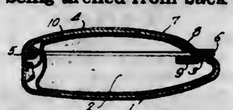
1,947,978
HOOD APPLYING MACHINE FOR MILK BOTTLES
John T. Eubank, Sherman, Tex., assignor, by mesne assignments, to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application November 6, 1931. Serial No. 573,497
14 Claims. (Cl. 226—80)



1. Machine for applying hoods to receptacles comprising a constricting device, and a train of co-axial, serially actuated, reciprocatory mechanisms including receptacle elevating means, hood conforming means, and means for operating said constricting device, said train having a gap between said elevating means and said conforming means for receiving a receptacle, and of greater height than said receptacle when said elevating means is in its base position, leaving space for feeding a sheet of hood material to a position between said receptacle and conforming means, said receptacle serving as a motion transmitting link in said series, for enabling the actuation of said conforming means and said constricting device, the latter including a normally expanded, contractile encircling construction including serially connected links surrounding the axis of said series in the zone of the skirt of said hood when the receptacle is in its ultimate position of elevation.

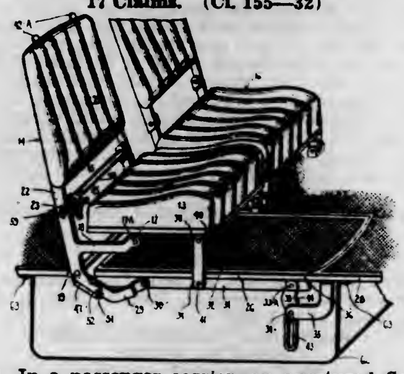
1,947,979
EYEGLASS CASE
Harry J. Farrington, Newton, Mass., assignor to Farrington Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application January 21, 1933. Serial No. 652,869
6 Claims. (Cl. 206—6)

1. An eyeglass case comprising a hollow bottom having an in-turned lip along the front, and a pressed-metal top hinged to the back of the bottom, the top being arched from back to front and



having at the front an out-turned flange substantially parallel with said lip so that the flange seats sidewise on the lip.

1,947,980
COLLAPSIBLE SEAT FOR VEHICLES
William F. Feyrer, Bridgeport, Conn.
Application September 18, 1928
Serial No. 306,671
17 Claims. (Cl. 155—32)

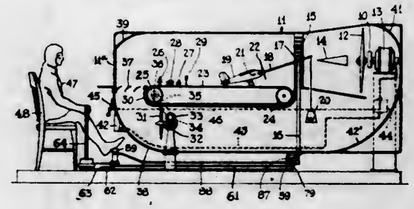


1. In a passenger-carrier, an apertured floor; a seat movable from operative position above the level of the floor through said aperture to an inoperative position below the level of the floor; a floor-board for closing said aperture, means for connecting the seat to the floor board so that the latter is movable from a position substantially level with the floor to a position below the level of the floor when said seat is moved from operative position above the level of the floor to inoperative position below the level of the floor and for effecting automatic relative movement of both the seat and floor-board into the fully operative position; and a back-rest for the seat movable from operative position in the back of the seat into a position to close the aperture in the floor through which the seat passes in going to inoperative position.

1,947,981
PLATING ALUMINUM
Johannes Fischer, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
No Drawing. Application October 31, 1931, Serial No. 572,440, and in Germany November 6, 1930
4 Claims. (Cl. 204—3)

2. In the plating of articles of aluminum and of aluminum alloys with firmly coherent, substantial metal coatings, the process which comprises passing an electric current between such articles through a bath containing electrolytes of such nature as to produce an electrolytic coating of oxidized nature, flash coating the so-treated articles electrolytically in an alkaline bath with a metal selected from a group consisting of copper, brass, cadmium, silver and gold, and finish-coating said flash-coated articles electrolytically.

1,947,982
AMUSEMENT APPARATUS
William F. Gerhardt, Grosse Ile, and Clarence A. Brock, Detroit, Mich., assignors, by mesne assignments, to Devon Corporation, a corporation of Delaware
Application September 19, 1931
Serial No. 563,722
13 Claims. (Cl. 35—12)

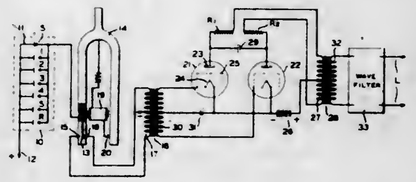


1. In an amusement apparatus, a model of an aerial vehicle, control surfaces therefor, means comprising full sized controls located at a distance from said aerial vehicle for moving said control surfaces, and a closed tunnel in which said model is mounted.

1,947,983
REMOVAL OF SULPHUR AND OF SULPHUR AND AMMONIA FROM GASES
Wilhelm Gluud, Fritz Brodkorb, and Walter Klempt, Dortmund-Eving, Germany, assignors to Gesellschaft für Kohlentechnik m. b. H., Dortmund-Eving, Germany
No Drawing. Application December 19, 1930, Serial No. 503,608, and in Germany December 20, 1929
3 Claims. (Cl. 23—225)

1. Method of removing sulphuretted hydrogen from gases comprising treating said gases with an alkaline aqueous suspension of iron hydroxide, oxidizing the iron sulphide contained in said suspension with oxidizing gas in an ammonical solution in the presence of sulphite.

1,947,984
TELEGRAPH REPEATING AND RECEIVING APPARATUS
Hakon H. Haglund, New York, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application August 24, 1932. Serial No. 630,278
16 Claims. (Cl. 178—51)

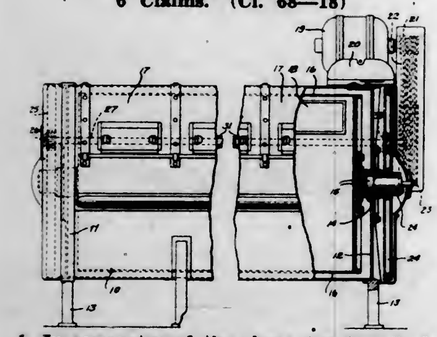


1. In a carrier current telegraph system, means for transmitting groups of oscillations, a receiving apparatus comprising a gaseous conduction tube, means responsive to a received group of oscillations for starting a discharge through said tube, means for interrupting said discharge prior to the receipt of the succeeding group of oscillations, an output circuit for said tube and a recording instrument in said output circuit.

1,947,985
WASHING MACHINE DIFFERENTIAL DRIVE UNIT

Howard H. Harlan, East Moline, Ill., assignor to Troy Laundry Machinery Co., Inc., New York, N. Y., a corporation of Delaware

Application November 25, 1931
Serial No. 577,257
6 Claims. (Cl. 68—18)



1. In apparatus of the character described, in combination, a shell, a cylinder having end trunnions rotatably mounted in bearings in said shell and extending through the ends of said shell, a pair of driven members rigidly mounted respectively upon each of said trunnions exteriorly of said shell, a shaft mounted in bearings exteriorly of said shell, a driving member rigidly mounted on said shaft in cooperative relation with one of said driven members, a driving member rotatably mounted on said shaft in cooperative relation with the other of said driven members, a rotatable power member, and equalizer means mounted on said shaft and adjacent said loose driving member and connecting said power member to said shaft and to said loose driving member, to thereby transmit power to both ends of said cylinder with equal torque, said power member and said equalizer means being positioned to overhang an end of said shell.

1,947,986
FORMATION OF PRINTING DIES

Lee M. Harley, Brooklyn, N. Y., assignor to James H. Matthews & Company, a corporation of Pennsylvania

Application November 11, 1932
Serial No. 642,213
4 Claims. (Cl. 101—379)

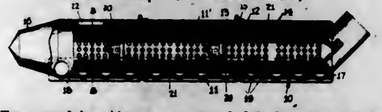


1. In a printing die or block the combination of a backing member with rubber character members of at least two different sizes permanently mounted thereon, the relative hardness of the rubber in the character members being greater for the character members of lesser size than for the character members of greater size.

1,947,987
COMBINED EXHAUST MANIFOLD AND MUFFLER

Charles E. Hathorn, Hempstead, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc., a corporation of New York

Application March 26, 1929. Serial No. 349,954
7 Claims. (Cl. 137—160)

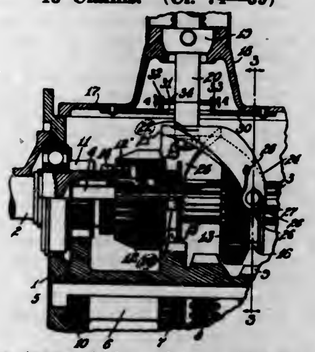


1. In combination, a manifold for the exhaust of a multi-cylinder internal combustion engine comprising a tubular shell having a plurality of lateral inlets for the entrance of exhaust gases from the engine and allowing the mingling of those gases within said shell, said shell being closed at one end and provided at its opposite end with an inturned flange, a muffler enclosed within and extending lengthwise of said shell and thru which the exhaust is passed in its passage to the outside atmosphere, said muffler being supported at one end and providing at the flanged end of said shell a closure therefor by its engagement with said flange, and a support for the opposite end of said muffler carried by said shell and with respect to which said muffler is axially movable.

1,947,988
SHIFT LEVER

Marley C. Hedgeland, Muncie, Ind., assignor to Warner Gear Company, Muncie, Ind., a corporation of Indiana

Application November 14, 1932
Serial No. 642,562
13 Claims. (Cl. 74—39)



1. In a transmission, the combination with a pair of independently axially shiftable interengageable transmission members, of a shift lever therefor and means carried by the lower end of said lever extending on opposite sides of said shiftable members and selectively movable into operable engagement with said shiftable members by a transverse movement of the lever and movable to axially shift said members by a longitudinal movement of the lever.

1,947,989
METHOD OF OXIDIZING HYDROCARBONS

Theodor Heilthaler, Granschutz, and Erich Peter, Webau, Germany; assignors to firm A. Riebeck'sche Montanwerke Aktiengesellschaft, Halle, Germany

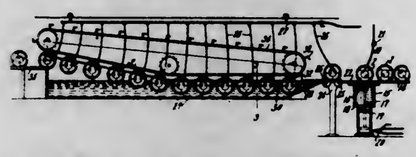
No Drawing. Application October 8, 1930, Serial No. 487,381, and in Germany June 20, 1928
16 Claims. (Cl. 260—98)

1. The method of oxidizing aliphatic hydrocarbons comprising subjecting such hydrocarbons whilst in the liquid phase to the action of oxygen in the presence of a member of the group of acids consisting of boric acid, phosphorous acid and arsenious acid.

1,947,990
APPARATUS FOR FORMING HOLLOW ARTICLES

Ernest Hopkinson, New York, N. Y., assignor to United States Tire Company, Incorporated, Indianapolis, Ind., a corporation of Indiana

Application August 26, 1930. Serial No. 477,855
7 Claims. (Cl. 18—24)

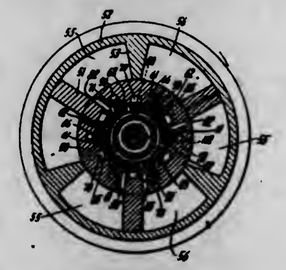


4. Apparatus for shaping coated articles comprising a container for a coating substance, a mandrel guide therein, said container having a sloping end, and means for positioning a rotatable mandrel comprising guide engaging means so that the guide engaging means engage said guide at a predetermined point in the rotation of said mandrel as it moves along said sloping end of the container.

1,947,991
POWER STEERING GEAR AND ROTARY VALVE THEREFOR

George W. Jessup, Waltham, Mass., assignor to Francis W. Davis, Waltham, Mass.

Application April 27, 1933. Serial No. 668,235
15 Claims. (Cl. 121—41)

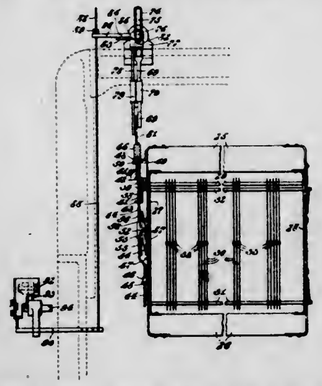


1. In a power steering mechanism having an inlet and an outlet for power fluid, a casing member and a partition member therein forming a pair of opposed pressure chambers, one of said members being movable relatively to the other in either direction from a normal intermediate position by unbalanced pressures in said chambers and being directly connectible with the steered part of the vehicle, valve means comprising two nested cylinders, one of which is rotatable in step with the movement of said movable member, the other cylinder being connectible with the steering wheel of a vehicle for manual rotation thereby, said cylinders being relatively rotatable with respect to each other through a small angle, the outer of said cylinders having a set of longitudinal ribs on its inner surface, the inner cylinder having a set of longitudinal ribs loosely meshing with the ribs of the outer cylinder, flank portions of the ribs of each set being simultaneously engageable by flank portions of the ribs of the other set by relative rotation of said cylinders from a normal relative position in which there are clearances between opposing flank portions of successive ribs, said mechanism having normally open passages including said clearances to connect both said chambers with the inlet and the outlet, whereby the relative pressures in said chambers are controlled by variations in said clearances.

1,947,992
WARP STOP MOTION

John Jacob Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 10, 1932. Serial No. 597,955
20 Claims. (Cl. 139—364)

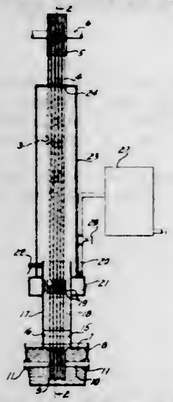


20. In a warp stop motion for looms, a harness frame; shed forming heddles mounted therein; a detector bar mounted in the harness frame; each of the heddles having a slot through which the detector bar extends; the detector bar having a single flat side but being otherwise circular in cross-section; the slot in each heddle having a narrow portion whereby the movement of the detector bay may be arrested by a dropped heddle; a slide member mounted at one end of the harness frame, said slide member having a cam slot; off-center pins carried at the end of the detector bar engaging the cam slot in the slide member whereby the detecting movement of the detector bar will be imparted thereto by the movement of the slide member and whereby the slide member will be restrained against complete movement when the movement of the detector bar is arrested; a rod mounted at the end of the harness frame having a limited range of movement with respect thereto; a latch carried by said rod adapted to engage the slide member to actuate the same; coacting lugs carried respectively by the frame and the latch adapted to trip the latch and thereby release the slide member at an intermediate point in the movement of the rod with respect to the harness frame; a shoulder carried by the frame; a portion of the latch being adapted to engage said shoulder to impart movement to the rod in addition to its normal movement; the slide member having a portion engaged by a portion of the latch to restrain the latch during normal operation from engagement with said shoulder, the latch being permitted such engagement when the slide member is restrained against complete movement; and means controlled by the rod for stopping the loom.

1,947,993
APPARATUS FOR TREATING COATING MATERIAL APPLIED TO A CORE

Henry Martin Larsen, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 6, 1929. Serial No. 368,987
1 Claim. (Cl. 91—55)

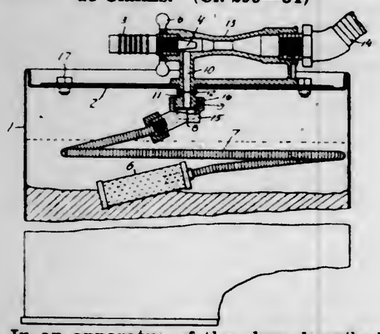


An apparatus for insulating electrical conductors, which comprises means for coating a conductor with a composition composed of insulating material and a volatile combustible solvent, an elongated combustion chamber, means for conveying a wire through said coating means and said combustion chamber, means in the chamber for causing a combustion of the volatile solvent of the coating composition to thereby furnish the heat necessary to consolidate the insulating material on the wire, and means for supplying air under pressure to said combustion chamber, said last named means having an air passage adjacent said chamber and extending lengthwise thereof for a substantial portion of its length, whereby the heat of combustion is utilized to preheat the air supplied to said chamber.

1,947,994
APPARATUS FOR HANDLING SOAPS

Clifford M. Larson, New Rochelle, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application April 4, 1931. Serial No. 527,689
13 Claims. (Cl. 299—84)



1. In an apparatus of the class described the combination comprising a container having an opening in the upper end, a cover plate adapted to partially close said opening, an ejector mounted on the upper surface of the cover plate and having a suction inlet passage including a channelled projection extending beneath said cover plate, a metering disk in said ejector suction inlet passage for regulating the flow of material through said channelled projection, a flexible tubing connected to the said channelled projection and having a strainer attached to its lower end and means for supplying liquid under pressure to the ejector.

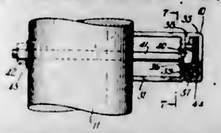
5. In an apparatus of the class described, the combination comprising a container having an opening in the upper end, a cover plate adapted to partially close said opening, an ejector mounted on the upper surface of the cover plate and having a suction inlet passage including a channelled projection extending beneath said cover plate, a metering disk in said ejector suction inlet passage for regulating the flow of material through said channelled projection, an opening extending through the wall of said channelled projection and communicating with the said suction inlet passage, said opening being above the said metering disk and adapted to admit a gas, a flexible tubing connected to the said channelled projection and having a strainer attached to its lower end, and means for supplying a liquid under pressure to the ejector.

6. In an apparatus of the class described, the combination comprising a container having an opening in the upper end, a cover plate adapted to partially close said opening, an ejector mounted on the upper surface of the cover plate and having a suction inlet passage including a channelled projection extending beneath said cover plate, a metering disk in said ejector suction inlet passage for regulating the flow of material through said channelled projection, an opening having a loose fitting pin therein extending through the walls of said channelled projection and communicating with the said suction inlet passage, said opening being above the said metering disk and adapted to admit a gas, a flexible tubing connected to the said channelled projection and having a strainer attached to its lower end, and means for supplying a liquid under pressure to the ejector.

1,947,995
ATTACHMENT FITTING

Clyde Edward Lear, Monessen, Pa., assignor to Page Steel and Wire Company, New York, N. Y., a corporation of New Jersey

Application March 23, 1932. Serial No. 600,591
8 Claims. (Cl. 248—31)



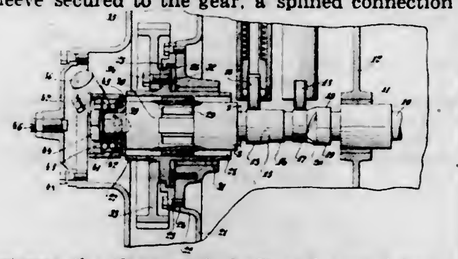
1. A fitting for attaching a tension member to a support, said fitting comprising a pair of clamping members adapted to engage opposite sides of the tension member and slidable into interlocking engagement one with the other lengthwise of the tension member, and means for simultaneously securing said members to the support and locking them against relative sliding movement without tightly gripping said tension member.

1,947,996
ENGINE BRAKE

Bruno Loeffler, Plainfield, N. J., assignor to International Motor Company, New York, N. Y., a corporation of Delaware

Application October 23, 1931. Serial No. 570,649
3 Claims. (Cl. 123—197)

1. In combination with an internal combustion engine having a crank shaft, and a cam shaft having inlet and exhaust cams, means to shift the cam shaft axially, a timing gear, a sleeve secured to the gear, a splined connection



between the sleeve and shaft, and spaced bearings between the sleeve and shaft upon opposite sides of the splined connection.

1,947,997
PRODUCTS OF DIMETHYLOLUREAS

Martin Luther, Mannheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany

No Drawing. Application March 21, 1928, Serial No. 263,589, and in Germany March 22, 1927
2 Claims. (Cl. 260—3)

1. The process of producing condensation products which comprises heating dimethylolurea mixed with an aliphatic monohydric alcohol together with a buffer substance maintaining a hydrogen-ion concentration of about pH6.

1,947,998
PIPE COUPLING

Adolfo Mazza, Genoa, Italy, assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application September 12, 1928, Serial No. 305,564, and in Italy November 19, 1927
5 Claims. (Cl. 285—114)



1. The combination of two pipes arranged end to end, a collar surrounding both pipe ends so as to leave a sealing ring recess between itself and the pipes, sealing rings in said recess, one around each pipe, said sealing rings being in a radially compressed and sealing condition resulting from their being rolled into the collar by a single movement of the collar in one direction relatively to the pipes, and integral means so contracting the mouths of the ring recess as to prevent the rings from being forced out through said mouths.

1,947,999
VENDING MACHINE

John H. McCormick and Frank M. Bender, Williamsport, Pa., assignors to Vendi Cater, Inc., Williamsport, Pa., a corporation of Pennsylvania

Application September 27, 1930
Serial No. 484,835
2 Claims. (Cl. 194—63)

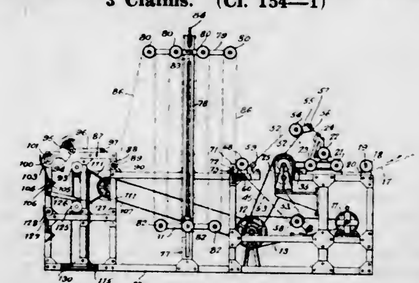
1. In a vending machine, a rotatable shaft, a collar carried by said shaft and having coin slots, shoulders formed on said collar, a lever adapted to project into the path of said shoulders to limit rotation of said shaft in one direction, a second shaft having a lost motion connection with said first shaft, a lever engaging said second shaft to limit rotation thereof in one direction, both of said levers being movable by a coin to inoperative positions, a disk carried by said collar and having peripheral recesses, a pivoted lever having a pin adapted to be received in said recesses, and resilient means drawing said lever toward said disk.



1,948,000
APPARATUS FOR CUTTING AND ASSEMBLING PLIES

George K. McNeill, Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a corporation of Michigan

Application March 13, 1928. Serial No. 261,198
3 Claims. (Cl. 154—1)

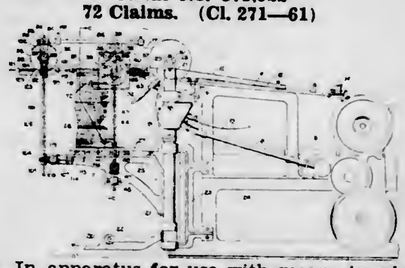


1. In apparatus for manufacturing pneumatic tires, mechanism for longitudinally slitting a strip of bias cut fabric to form a plurality of strips of narrower width, and means movable laterally of said slitting mechanism for guiding the strip as it enters said slitting mechanism to determine the widths of said narrower strips.

1,948,001
SHEET FEEDER

Charles J. Mensman, Washington, D. C., and Earl D. Rader, Mount Kisco, N. Y., assignors to Dexter Folder Company, New York, N. Y., a corporation of New York

Application November 18, 1931
Serial No. 575,922
72 Claims. (Cl. 271—61)



1. In apparatus for use with means to which sheets are fed from a supply thereof on said ap-

paratus, automatically operated means for moving said supply in angularly related directions to position the sheets for feeding to said first named means.

1,948,002
PRODUCTION OF CARBAMATES

Alwin Mittasch and Paul Chall, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany, a corporation of Germany

No Drawing. Application November 30, 1929, Serial No. 410,872, and in Germany December 15, 1928

10 Claims. (Cl. 260—112)

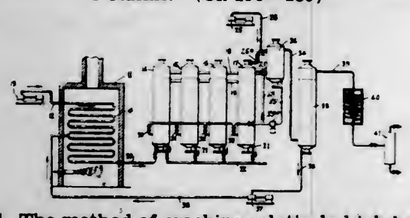
1. The process of producing metal carbamates, which comprises acting with ammonia and carbon dioxide on a metal salt in an inert liquid in which the metal salt is soluble at least to a slight extent, but in which the resulting carbamate is difficultly soluble.

1,948,003
TREATING HYDROCARBON OILS

Homer P. Parrigin and Ralph P. Currie, Gates, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application August 2, 1929. Serial No. 382,904

4 Claims. (Cl. 196—139)



4. The method of cracking relatively high boiling hydrocarbon oils for the production of lower boiling products which comprises subjecting such oil to cracking conditions of temperature in an enlarged still chamber, separately withdrawing from said still chamber vaporized cracked products and passing them to a separate zone wherein they are subjected to a limited amount of dephlegmation, thereby separating from said vapors a relatively small amount of reflux condensate, separately withdrawing at least a portion of the said condensate and introducing the same directly into the vapors within the still which are substantially in the immediate vicinity of the point of withdrawal of vapors therefrom, thereby washing the vapors just prior to their withdrawal from said still for passage to said separate dephlegmating zone, passing the vapors from said dephlegmating zone to a separate fractionating zone wherein undesired higher boiling constituents thereof are separated in the form of reflux condensate, separately withdrawing and collecting the fractionated vapors, withdrawing the latter reflux condensate and passing it through an elongated heated passageway wherein it is heated to a substantial cracking temperature, and discharging the highly heated oil from said passageway into said enlarged still chamber for cracking therein.

1,948,004
PROCESS FOR THE PRODUCTION OF SULPHATE OF ALUMINA

Robert S. Perry, Cave Spring, Ga., assignor to Paper Makers Chemical Corporation, Kalamazoo, Mich., a corporation of Delaware

No Drawing. Application March 18, 1930
Serial No. 436,895
15 Claims. (Cl. 23—123)

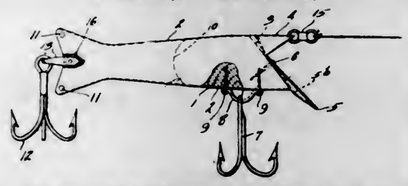
1. In a process for the production of sulphate of alumina, the steps which consist in grinding bauxite ore in the presence of water, thereafter treating said mixture with sulphuric acid and heating the mixture thus formed at atmospheric pressure.

1,948,005
METAL MINNOW

Charles T. Pflueger, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio

Application October 31, 1929. Serial No. 403,693

9 Claims. (Cl. 43—46)

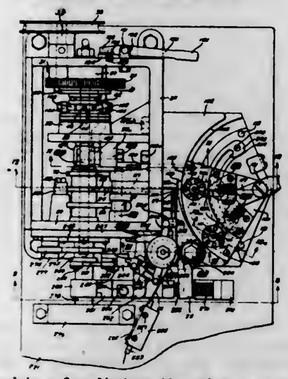


1. In an artificial minnow, a shaped wooden body, a metal casing surrounding and supported by said body, the front end of said body slanting rearwardly and upwardly, the lower front portion of said casing conforming with said body, the upper front portion of said casing extending forwardly in a hollow snout to form an open mouth, a metal disk over the slanting front end of said body, said disk extending up into said hollow snout and also having a flange extending outwardly of the front bottom portion of said casing and body, the back end of said wooden body terminating short of the end of the casing, said casing being flattened to form a tail, a hook attached to said tail, a hook attached to said wooden body through said casing, and means on the forward part of said snout for connecting the bait to a line.

1,948,006
ARMATURE CORE INSULATING MACHINE

Alva W. Phelps, Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a corporation of Delaware

Application November 26, 1930
Serial No. 498,350
19 Claims. (Cl. 29—84)



1. A machine for lining the slots of an armature core each with a separate strip of sheet insulating material which comprises, in combination, a core holder, a driven and an idle feed roll one of which is movable relative to the other and normally yieldingly urges a ribbon of sheet insulating material against said other roll; a knife for cutting off the end portions of said ribbon to provide a strip of material adjacent a core

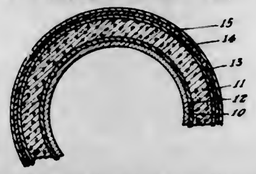
slot, and a cam actuated lever withdrawing the movable roll from engagement with said ribbon when actuating the knife.

1,948,007
MEANS FOR PREVENTING CORROSION OF METALLIC OBJECTS

Joseph F. Putnam, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application June 30, 1931. Serial No. 547,899

6 Claims. (Cl. 154—41)



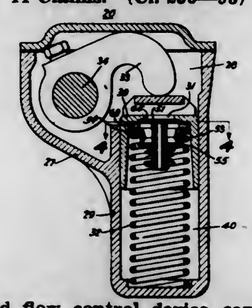
1. A protecting coating for metallic bodies comprising a layer of bituminous mastic adjacent the metallic body, a spirally wound sheathing covering said mastic, and a separate spirally wound fibrous covering exterior of said sheathing, a layer of flexible asphaltic material being interposed between said sheathing and fibrous covering.

1,948,008
VALVE FOR SHOCK ABSORBERS

Edwin F. Rossman, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware

Application June 26, 1931. Serial No. 546,996

11 Claims. (Cl. 236—93)



1. A fluid flow control device comprising, in combination, a nozzle; means engaging the nozzle for restricting the flow of fluid therethrough; and a support to diametrically opposite portions of which the respective ends of said means are secured, said support being adapted, in response to temperature variations, to exert more or less pull on said means to adjust the contact pressure of said means upon the nozzle.

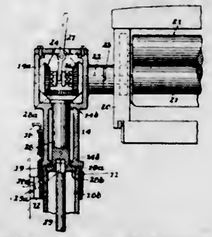
1,948,009
FOLDING WRINGER

Tunis Saunders and Jacob Castline, Paterson, N. J., assignors of one-third to said Saunders, one-third to said Castline, and one-third to Maurice Bernstein, Paterson, N. J.

Application October 29, 1932. Serial No. 640,138

7 Claims. (Cl. 68—32)

1. In combination, supporting structure, upper and lower hollow pedestal sections, the upper section being fixed to said structure and the upper section hinged to the lower section to swing down on a substantially horizontal axis, a wringer comprising a frame, revoluble rolls therein and a shaft for one roll projecting from the frame and journaled in said upper section, means to drive said shaft including upper and lower interengaged clutch members revoluble within said pedestal sections and the lower one being shiftable downwardly out of clutching engagement with



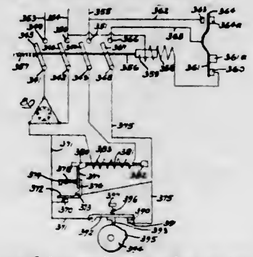
the other, spring means yieldingly maintaining said lower section elevated in clutch-engagement with the upper member, and means on the lower member for shifting it downwardly out of clutch-engagement with the upper member.

1,948,010
METAL CUTTING MACHINE

Leo C. Shippy, Alva W. Phelps, and John Q. Holmes, Anderson, Ind., assignors to Delco-Remy Corporation, Anderson, Ind., a corporation of Delaware

Original application July 12, 1929, Serial No. 377,778. Divided and this application July 14, 1932. Serial No. 622,380

10 Claims. (Cl. 29—69)
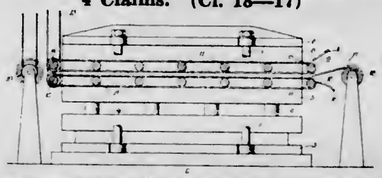


6. In a machine of the character described, the combination of a prime mover; a cutter driven by the prime mover; two means for controlling the prime mover, both of which must be concurrently operative in order to stop the prime mover, one of the means being responsive to torque required to operate the cutter, and the other responsive to the completion of a cutting operation.

1,948,011
APPARATUS FOR VULCANIZING A MOLDED STRIP

Clarence E. Siegfried, Sandusky, Ohio, assignor, by mesne assignments, to Construction Materials Patents, Inc., a corporation of Ohio

Application February 21, 1930. Serial No. 430,269

4 Claims. (Cl. 18—17)



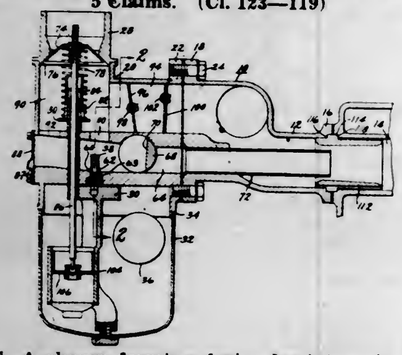
1. An apparatus for vulcanizing a molded strip comprising a pair of heated platens, conveyor means traversing entirely within a predetermined path between the platens for supporting the strip and means for actuating the conveyor to feed the strip between the platens.

1,948,012

CHARGE FORMING DEVICE

Wilford H. Teeter, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware

Application October 2, 1929. Serial No. 396,701
5 Claims. (Cl. 123—119)



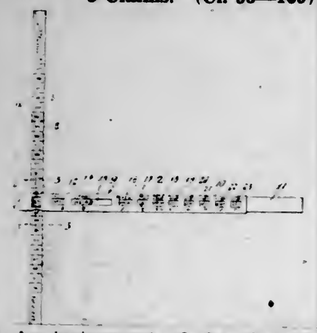
1. A charge forming device for internal combustion engines comprising a primary mixture passage, means for supplying fuel and air thereto, a secondary mixing chamber into which the primary mixture passage delivers a primary mixture of air and fuel and located relatively remote from the point at which fuel is supplied to the primary mixture passage, a secondary air passage adapted to supply auxiliary air to said secondary mixing chamber, the primary mixture passage being of as large diameter as possible to maintain a velocity of flow therethrough under those operating conditions which produce the lowest pressure differential between opposite ends of the mixture passage that will be great enough to cause a continuous flow of fuel within the mixture passage, and without puddling of the fuel on the walls of the mixture passage.

1,948,013

INSTRUMENT FOR INDICATING THE REQUIRED VOLTAGE FOR MAKING RADIOGRAPHS

Harry E. Turner, Los Angeles, Calif.

Application September 30, 1929, Serial No. 396,378. Renewed December 3, 1932
5 Claims. (Cl. 33—169)



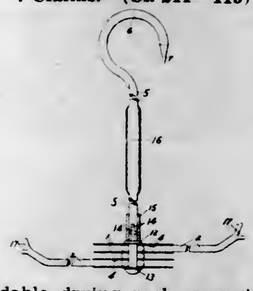
2. An instrument of the character described comprising a standard, an arm comprising two sections slidably engaging the standard and extending horizontally therefrom, one of the arm sections being rotatably mounted within the other and having indicia thereon, and said other section being provided with windows through which to read said indicia on the inner section.

1,948,014

LINGERIE DRIER

Florence K. Tuttle, San Francisco, Calif.

Application March 20, 1933. Serial No. 661,708
7 Claims. (Cl. 211—115)



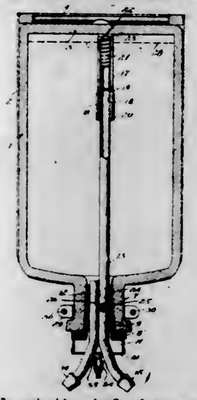
1. A foldable drying rack comprising a hub, a plurality of arms pivoted thereto and arranged to outfold from a position all at one side of the hub to radial positions therearound, a suspension rod at one side of the hub extending substantially at right angles to the plane of the outfolded arms, means adapting said rod to fold down substantially to the plane of the arms, and means locking said rod rigid when outfolded.

1,948,015

HYDROSTATIC INFUSION APPARATUS

Eugene O. White, Rochester, N. Y.

Application September 29, 1932
Serial No. 635,443
4 Claims. (Cl. 27—24)



1. In a hydrostatic infusion apparatus, the combination with a reservoir having a filling opening and a stopper therefor provided with a liquid holding cavity, of a tube extending through the stopper and constituting an air intake relief, a drain pipe extending through the stopper to draw fluid from the reservoir when the latter is inverted, and a by-pass for diverting the column of fluid trapped in the air intake relief tube into the cavity of the stopper when the reservoir is so inverted.

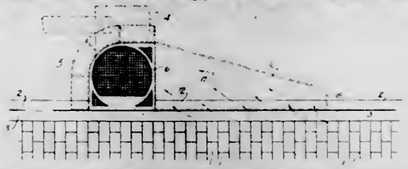
1,948,016

CATCH BASIN HEADER AND THROAT

Norman M. Wilke, Lakewood, Ohio

Application September 26, 1932
Serial No. 634,870
5 Claims. (Cl. 182—6)

1. The combination with a sidehill catch basin for roadways having a curb, of an elongated sewage receiving and directing throat extending longitudinally uphill therefrom and arranged to discharge into the catch basin on the uphill side of said basin, said throat comprising a rigid hollow body disposed with its front face in the front vertical face of the curb and having an opening in said face extending from above substantially to the level of the roadway, the floor of said throat



being disposed below the road surface elevation and sloped downwardly toward the catch basin at a steeper angle than the curb, both the depth and width of said conduit gradually increasing from the remote end toward said catch basin for maintaining an effective hydrostatic head on the sewage therein.

1,948,017

ADJUSTABLE ASTRAGAL OR THE LIKE

Harry B. Wuebling, Cincinnati, Ohio

Application September 21, 1931
Serial No. 563,989
10 Claims. (Cl. 20—68)



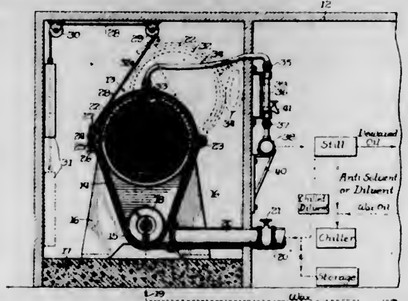
1. In an astragal the combination of a formed strip comprising a wall, a mounting flange and a cover flange extending in opposite directions from opposite edges thereof, a formed sealing strip slidable on the cover flange, threaded means for adjusting the sealing strip toward said wall and resilient means tending to move the sealing strip in the opposite direction.

1,948,018

OIL-WAX SEPARATION SYSTEM

Chester E. Adams, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application January 28, 1931. Serial No. 511,799
1 Claim. (Cl. 210—182)



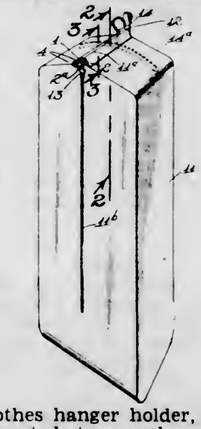
A pressure filter system for the separation of solidified wax from diluted oil at low temperatures, which comprises an insulated, closed, gastight filter casing, an insulated closed housing in which said filter is disposed, a closed conduit connected with the base of said casing for removing wax slurry therefrom whereby the filter cake can be removed without opening the filter, a plurality of individual filter leaves within said casing, means for removing said filter leaves from the top of said casing so that the closed filter cake discharge means will not be disturbed, a conduit for introducing the slurry to be filtered at the base of said filter casing, means for conducting filtrate separately from each leaf, sight glasses in said filtrate conducting means which are visible from outside of said housing, means located outside of said housing for stopping the filtrate flow when said filtrate appears cloudy in the sight glass, and remote control means for regulating the pressure in said filter, regulating the filtrate discharge, and regulating the filter cake discharge located outside of said housing whereby the filter may operate for a long period of time by remote control without the necessity of said housing being opened.

1,948,019

CLOTHES HANGER HOLDER AND BAG

George K. Ballentine, Los Angeles, Calif.

Application May 25, 1931. Serial No. 539,793
12 Claims. (Cl. 206—7)



1. In a clothes hanger holder, a pair of bars pivotally connected at one end, means detachably connecting the opposite ends of the bars together, and resilient yieldable gripping means between the adjacent sides of the bars.

1,948,020

BALL TEEING DEVICE

Benjamin J. Buckingham, Ravinia, Ill.

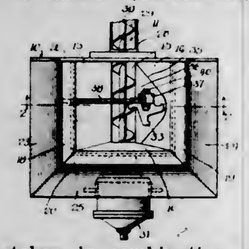
Application January 29, 1932. Serial No. 589,571
11 Claims. (Cl. 273—33)



1. In a ball teeing device, a frame, a spindle rotatively mounted on said frame; a ball race mounted on said spindle and being movable vertically and horizontally said ball race having a helical receiving end and a discharge port, means on said spindle adapted to normally maintain said ball race in inclined position; means adjacent the outlet port of said race adapted to in-

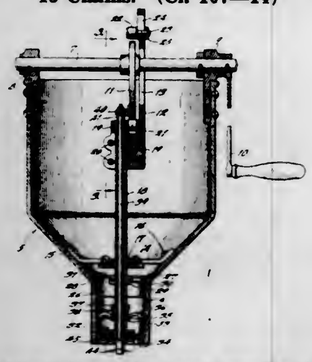
termittently lock a ball, and means connecting said ball locking means and said spindle whereby said ball locking means will be actuated to release a ball when said race is titled downwardly.

1,948,021
FEEDING DEVICE FOR STOKERS
Warren D. Burton, Goshen, Ind., assignor to Combustioneer, Inc., Goshen, Ind., a corporation of Illinois
Application September 6, 1930. Serial No. 480,077
13 Claims. (Cl. 259—39)



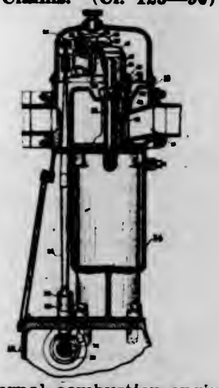
1. In a stoker, in combination, a hopper, a conveyor screw in the bottom of said hopper, a star wheel disposed on a vertical axis at the bottom of the hopper in mesh with said screw, and an agitating member flexibly connected to said star wheel and extending upwardly in said hopper, said member being attached to said star wheel for driven orbital movement through said hopper.

1,948,022
DOUGHNUT MACHINE AND THE LIKE
Charles E. Carpenter, Chicago, Ill.
Application May 19, 1932. Serial No. 612,249
13 Claims. (Cl. 107—14)



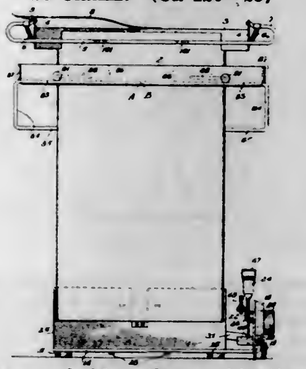
5. In a machine of the class described the combination of a dough hopper, a downwardly extending throat in connection with the same, a pair of collars slidably mounted within the throat, means for limiting the downward movement of each of said collars, a stop plate within the hopper in position for engagement by the upper collar, when said collar moves upwardly and while said collar maintains engagement with the throat, a vertically reciprocable member within the hopper, a friction connection between said member and the uppermost collar, a spring connection between the reciprocable member and the lowermost collar, and a disc carried by said reciprocable member in position to enter and close the lower portion of the lowermost collar when the parts are at their lowermost limit of movement, substantially as described.

1,948,023
VALVE ACTUATING MECHANISM
Harold D. Church, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a corporation of Ohio
Application November 17, 1931
Serial No. 575,503
4 Claims. (Cl. 123—90)



1. In an internal combustion engine, the combination of a combustion chamber, an exhaust conduit leading into said combustion chamber, a valve for controlling said conduit, a closing spring for said valve, a rotatable cam, a train of mechanism operable by said cam to open and close said valve including a pivotally mounted rocker arm, and means acting to annul the tightening and loosening effects of the thermal expansion and contraction of said valve, the parts of said train of mechanism, and the associated parts of said engine, said means comprising an eccentrically rotatably mounted member serving as a journal for said rocker arm, and a thermoresponsive mechanism including a part exposed to the gases ejected through said conduit and operatively connected to said member in such a manner as to effect rotation thereof.

1,948,024
COPYHOLDER
George C. Cochrane, Rochester, N. Y.
Application November 26, 1932
Serial No. 644,446
20 Claims. (Cl. 120—29)



1. In a copyholder, the combination with a standard having guides and a copy plate movable vertically thereon and embodying a lifting rod cooperating with the guides, of a friction wheel mounted on the standard and engaging the rod.

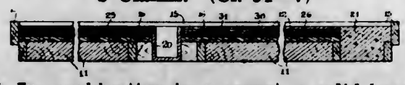
and means for imparting intermittent rotary impulses to the wheel in the same direction to lift the copy plate step by step.

1,948,025
ASH TRAY
Harry G. Currier, Jr., Newark, N. J.
Application April 4, 1932. Serial No. 603,097
6 Claims. (Cl. 131—51)



1. The combination with a smoker's refuse receptacle open at the top, of a rest for horizontally supporting a cigarette at the upper edge of the receptacle, a rim below said rest and outside of the confines of the receptacle for receiving a partially consumed cigarette and means at the inner margin of the rim spaced outwardly from the outer edge of the cigarette rest and adapted to cooperate with the said outer end of the cigarette rest to temporarily hold a partially consumed overbalanced cigarette until its unconsumed portion is of a length which will be accommodated by the rim.

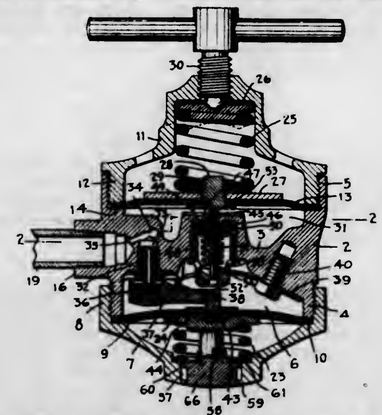
1,948,026
GOLF GREEN AND METHOD OF MAKING THE SAME
John A. Curtiss, Cleveland, Ohio, assignor to The Curtiss Company, Cleveland, Ohio, a corporation of Ohio
Application October 25, 1930. Serial No. 491,213
5 Claims. (Cl. 94—7)



5. In combination in a carpet, a solid base, a layer of fibrous cushioning material on said base, a layer of sheet material covering said layer of cushioning material, means extending through the sheet material and cushioning material and securing the same to the base, a layer of adhesive over the layer of sheet material and a surface of comminuted material secured to said adhesive.

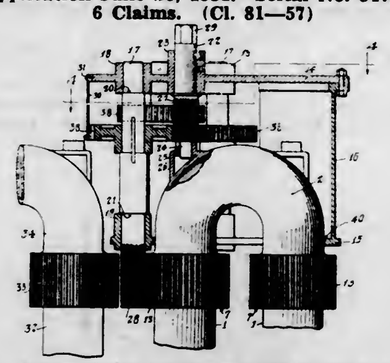
1,948,027
COMPOUND GAS PRESSURE REGULATOR
George M. Deming, East Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application June 30, 1931. Serial No. 547,851
6 Claims. (Cl. 50—23)

1. A pressure regulator having a body formed with an internal wall and with an inter-stage cavity and a low-pressure cavity at opposite sides of said wall, first-stage and second-stage diaphragms covering said cavities, caps applied to opposite sides of said body, springs beneath said caps bearing on said diaphragms, an orifice nozzle in said internal wall projecting into said inter-stage cavity, a valve element having a face coacting with the terminal lip of said nozzle, a lever of the first order in said inter-stage cavity, said lever having a long arm and a short arm, said long arm bearing against the under side of the first-stage diaphragm, and said short arm acting by simple leverage on said valve element, a compensating spring acting on said lever to urge said valve element against said lip, said internal wall having an orifice through which gas passes from the inter-stage cavity to the low-pressure cavity, a projecting nozzle lip at the inlet end of said orifice, a valve element having a face coacting with said nozzle lip, a guide in said wall in which this latter valve element is truly guided, a thrust element extending through this orifice between



this valve element and the second-stage diaphragm, and a spring urging this valve element against the inlet of this orifice.

1,948,028
PRESSURE STILL HEADER AND ASSEMBLING TOOL
Samuel H. Edwards, Richmond, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application June 26, 1931. Serial No. 547,006
6 Claims. (Cl. 81—57)

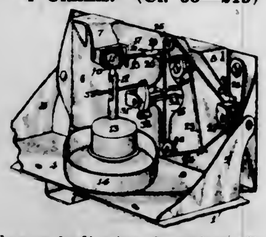


1. A wrench for turning a toothed union member on a pipe joint which is provided with a centering means, comprising a frame shaped to fit about said joint for preventing relative rotation therebetween and having a bearing member engaging with the centering means on said joint, a first gear rotatably supported in said frame and positioned to mesh with the teeth on said union member, a second gear attached to the first, a third gear rotatably supported in said frame and meshing with said second gear, and means for rotating said third gear.

1,948,029
FOAMITE CORROSION INHIBITOR
Gerald M. Fisher, Los Angeles, Calif.
No Drawing. Application February 20, 1933
Serial No. 657,682
2 Claims. (Cl. 23—11)

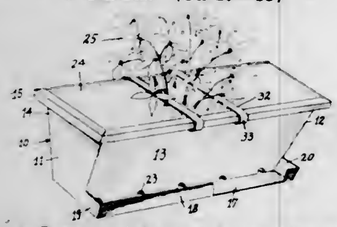
1. An acid foam solution comprising an aqueous solution of aluminum sulfate or alum, and from 1% to 10% by volume of molasses to prevent the corrosion of an iron container by said aqueous solution.

1,948,030
BALANCE INDICATOR FOR AIRCRAFT
Paul Arthur Goldsworthy, Berkeley, Calif.
Application May 8, 1929. Serial No. 361,435
4 Claims. (Cl. 33—215)



1. A balance indicator for aircraft comprising in combination, a frame attachable to an aircraft and carrying a pendulum having a slotted arm, a fixed indicator, an indicator pivotally mounted intermediate its ends on the frame providing cantilever arms extending at right angles from and on each side of its pivot, means comprising a rod eccentrically attached to the hub of said pivot and adapted to slidably engage in the slot of the pendulum arm for movement of said rod and indicator by the pendulum, said pendulum being adapted to be moved by lateral roll of the aircraft, and a dial positioned vertically in front of and midway from the extremities of the cantilever arms of said pivoted indicator, a marker, and means including a separate flexible coupling connected to the marker and the pendulum and actuated by change in longitudinal position of the aircraft.

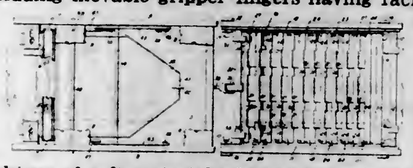
1,948,031
SELF-FEEDING FLOWERPOT
Walter J. Guille, New York, N. Y.
Application November 2, 1932. Serial No. 640,789
9 Claims. (Cl. 47—38)



1. In a flower pot having front, rear and side walls, a bottom and being open at the top, a frame around the upper end of said walls forming a downwardly open channel therewith; a reserve container being integral with said pot and communicating therewith, and clamps to bridge the upper opening in the pot, the ends of said clamps being adapted to engage said channel and being secured thereby.

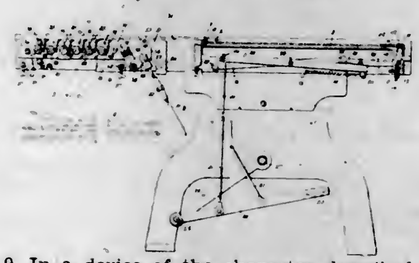
1,948,032
STRIP ALIGNING AND TENSIONING DEVICE
Louis Fred Hagemann, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a corporation of Ontario
Application May 27, 1927. Serial No. 194,765
45 Claims. (Cl. 197—133)

1. In an apparatus of the character described, in combination, a strip aligning device and strip drawing means including movable devices adapted separately to grip different strips to draw them to aligning position, said gripping devices including movable gripper fingers having facing



cushions of soft material adapted to contact the strips.

1,948,033
STRIP ALIGNING AND TENSIONING DEVICE
Louis F. Hagemann, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a corporation of Ontario
Application October 19, 1927, Serial No. 227,209
Renewed June 3, 1933
12 Claims. (Cl. 197—133)

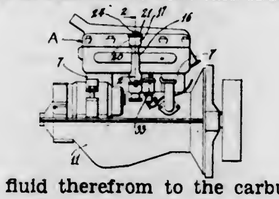


9. In a device of the character described, in combination, a platen for supporting record strips in writing position to which the strips may be fed, a carriage mounted for reciprocal movement relative to the platen adjacent to the path of strip feed, means for restraining a record strip forwardly of the platen against rearward movement after it has been forwardly fed, a strip engaging member in fixed position upon said carriage, a weighted strip gripping member movably mounted on said carriage and located thereon adjacent said fixed strip gripping member so as to move against the latter under the influence of its weight to grip the record strip, means for reciprocating the carriage and therewith said strip engaging member and said weighted strip gripping member, means automatically operable upon carriage movement in one direction to move said weighted strip gripping member to release the strip grip when the carriage is in its extreme forward position in the direction of strip feed and to re-establish the strip grip before the completion of carriage movement in the opposite direction so as to draw the strip backwardly to effect smoothing and tensioning thereof.

1,948,034
APPARATUS FOR DELIVERING A LUBRICANT OR OTHER LIQUID TO A FLUID STREAM
John C. Handy, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application March 25, 1929. Serial No. 349,680
6 Claims. (Cl. 123—196)

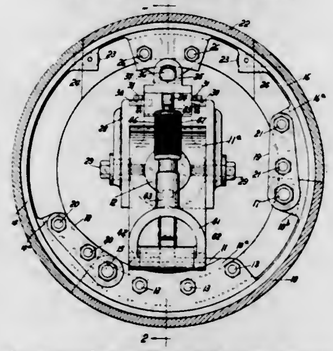
1. An apparatus of the character described comprising a carubreted-air line, a container, a chamber communicating with the container and vented to the atmosphere, a valve means between the chamber and the carbureted-air line,

and means responsive to the velocity of the carbureted-air in said line to vent said chamber and



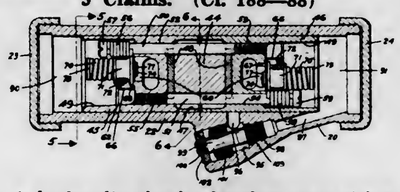
deliver a fluid therefrom to the carbureted-air line.

1,948,035
ANNULAR COLLAPSIBLE FORM
Frank L. Johnson, Akron, Ohio
Application December 19, 1931
Serial No. 582,009
18 Claims. (Cl. 154—9)



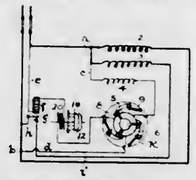
18. An annular collapsible tire building form including a relatively fixed section, a key section opposite, but not directly opposite, the fixed sections, and intermediate sections hinged on the fixed section and adapted to cooperate with the key section, one of said hinged sections being shorter than the other, said key section having a mounting whereby it is movable inwardly into the central opening of the form and thence axially to one side out of said central opening, said hinged sections being foldable inwardly, the shorter first, to overlapped positions in the central opening of the form.

1,948,036
SHOCK ABSORBER
Carl H. Kindl, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a corporation of Delaware
Application October 5, 1931. Serial No. 566,930
5 Claims. (Cl. 188—88)



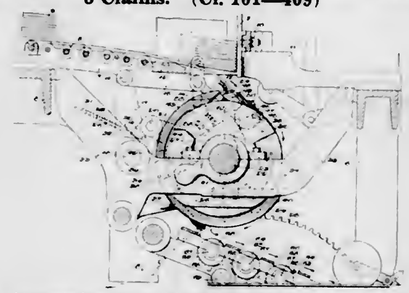
1. A hydraulic shock absorber comprising, in combination; a casing providing a fluid reservoir and a cylinder; a piston in each end of said cylinder; a piston operating member oscillatably supported by the casing and extending between said pistons; a headed connecting member slidably extending through one piston and threadedly engaging the other piston; a spring interposed between the head of said connecting member and the piston slidable relative thereto; a duct in each piston providing for the transfer of fluid therethrough; and valves in each piston for controlling the fluid flow through said piston ducts in both directions.

1,948,037
ELECTRIC MOTOR
Frederick S. Kingston, Warren, Ohio, assignor, by mesne assignments, to Sunlight Electrical Company, Warren, Ohio, a corporation of Ohio
Application October 25, 1928, Serial No. 314,948, and in Canada October 26, 1927
8 Claims. (Cl. 172—279)



1. A split-phase electric motor, comprising a divided main winding, a starting winding, an electro-magnetic clutch in circuit with said starting winding, adapted to be released in starting operations, and a relay in said starting circuit adapted to cut out a part of said main winding co-incidently with the release of said clutch.

1,948,038
SHEET OR SIGNATURE SEPARATING AND FEEDING MECHANISMS
Edward R. Kast, Pearl River, N. Y., assignor to Dexter Folder Company, New York, N. Y., a corporation of New York
Application August 5, 1929. Serial No. 383,577
8 Claims. (Cl. 101—409)

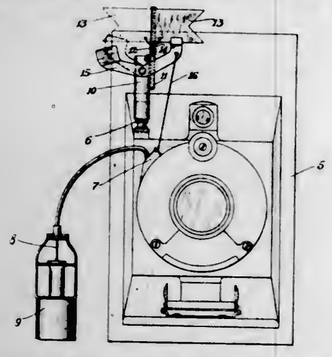


1. In mechanism of the character described, a driven shaft, an element fixed on said shaft to rotate therewith, a jaw or anvil yieldably mounted in inclined position in said element and having a gripping face inclined inwardly from and disposed wholly within its circumferential circle of revolution, a gripper mounted on the element for movement within said circle toward and away from said jaw or anvil, and means for operating said gripper during its rotation with the shaft and the element fixed thereon.

1,948,039
AUTOMATIC SHUTTER SIGNAL FOR CAMERAS
Fred Kueppers, Chicago, Ill.
Application March 24, 1933. Serial No. 662,625
4 Claims. (Cl. 95—53)

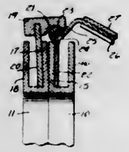
1. In a device of the class described a signal plate, a shaft, said plate being rigidly fastened to said shaft, means for attaching said shaft to

the camera, said shaft being movably mounted on said means, an actuating lever on the camera



and means for moving said plate when the actuating lever is being operated.

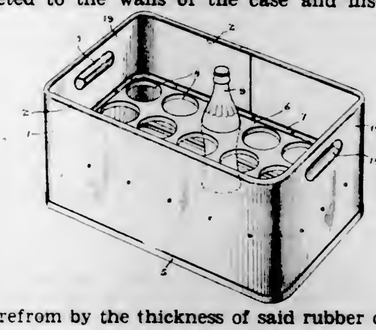
1,948,040
HAND BAG FRAME
Charles J. McCabe, Brooklyn, and Irving Schoenholz, Cedarhurst, N. Y.; Katherine B. McCabe, executrix of said Charles J. McCabe, deceased, assignors to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 12, 1930. Serial No. 435,048
3 Claims. (Cl. 150—29)



1. A handbag frame comprising U-shaped resilient members hinged to each other at the ends of the U, the adjacent surfaces of which are in contact throughout their extent when the bag is closed, and a lift-lock comprising two cooperable elements, each of which is mounted on one of the walls of one of said frame members, whereby said elements are adapted to be held in yieldable interengagement by the resilience of the members, one of said elements comprising a latch extending across the other member, and the other element comprising a pivot pin and a handle mounted thereon, said handle having a rounded bearing portion engageable by the extending portion of said latch and an arm adapted to cam said latch out of engagement with said bearing portion.

1,948,041
BOTTLE CASE
David A. McCowan, Toronto, Ontario, Canada
Application November 9, 1931. Serial No. 573,885
4 Claims. (Cl. 220—21)

1. A bottle case having sheet metal walls and a bottom, a sheet metal partition secured intermediate of the height of said walls and having flanged openings, said sheet metal partition having its outer edges turned upwardly in a flange to extend parallel to the walls of said case and having the flanges of said openings turned downwardly, the entire body of said flanged sheet being covered on both sides with a thickness of rubber, to act as a frictional cushioning and sound-deadening agent, the side flanges being securely riveted to the walls of the case and insulated

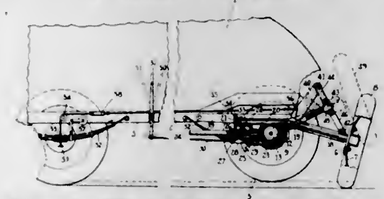


therefrom by the thickness of said rubber covering.

1,948,042
PROCESS FOR PRODUCTION OF LUBRICATING OIL
David R. Merrill, Long Beach, and Philip Subkow, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application October 10, 1932
Serial No. 637,210
9 Claims. (Cl. 196—13)

1. A process for the separation of hydrocarbon oil into fractions which comprises extracting said oil with BB' dichlorethyl ether and liquid sulphur dioxide to form a raffinate phase and an extract phase, and separating the extract phase containing fractions dissolved in said dichlorethyl ether and sulphur dioxide from the insoluble raffinate oil phase.

1,948,043
SPARE TIRE VEHICLE PARKING DEVICE
John H. Moffat, Indianapolis, Ind.
Application April 4, 1933. Serial No. 664,293
10 Claims. (Cl. 180—1)

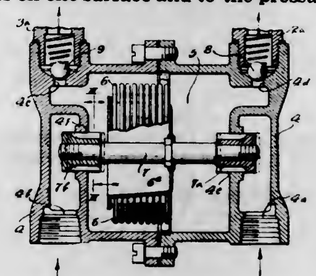


1. In conjunction with a vehicle having forward and rearward axles, a chassis, and springs connecting said chassis with said axles, the combination with a spare tire carrier, a spare tire carrier support comprising a frame, one end of which is pivoted to the chassis between the axles, the other end of said frame being flexibly connected to said support at one end of the vehicle beyond the respective axle and said frame being pivoted to said respective axle, between its said ends.

1,948,044
WATER MIXER
Joseph W. Myers, Philadelphia, Pa., and Ernest E. Murray, Jackson, Mich.
Application April 4, 1931. Serial No. 527,740
1 Claim. (Cl. 137—165)

In an apparatus of the kind described, the combination of a delivery conduit for combined fluids, a supply conduit for each of said fluids severally

communicating with said delivery conduit, a valve controlling the flow of fluid into one of said supply conduits, a valve controlling the flow of fluid into the other of said supply conduits, said valves being connected by a common stem extending between and coaxial with the same, means for guiding the movement of said valves, a sylphon surrounding said valve stem between said valves and exposed to the fluid pressure of one of said supply conduits on one surface and to the pressure of the

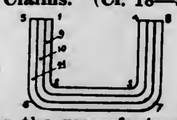


other of said supply conduits on the other surface, a thimble surrounding said stem coaxial therewith within said sylphon and secured at one end to an otherwise free end of said sylphon and at the other end to said stem between said valves whereby the movement of said valves and stem is unconstrained except for said guiding means, the end of said sylphon secured by said thimble to said stem being free to move at right angles to the motion of said stem except for said connection to said stem.

1,948,045
DRY CLEANING FLUID
George L. Parkhurst, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application May 31, 1932
Serial No. 614,624
11 Claims. (Cl. 87—5)

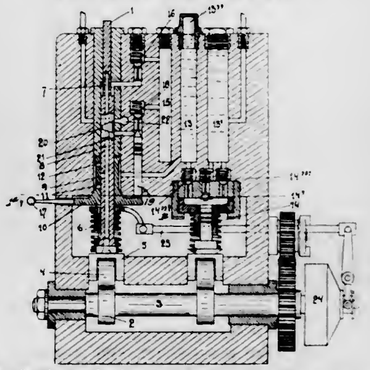
1. In a process for the dry cleaning of textile fabrics the step which comprises contacting said fabrics with a fluid comprising a substantial amount of an aliphatic, saturated, unsymmetrical, polychlorinated hydrocarbon substitution product selected from the group consisting of 1,1 dichlorethane, 1,1,1 trichlorethane, 1,1,2 trichlorethane and 1,1,1,2 tetrachlorethane.

1,948,046
PROCESS FOR THE MANUFACTURE OF ARTICLES OF CELLULAR RUBBER AND EBONITE WITH CLOSED CELLS
Maurice Paul Henri Leon Raepsaet, Aurec-sur-Loire, France, assignor to Societe Belge du Caoutchouc Mousse, Berchem-Ste-Agathe near Brussels, Belgium, a corporation of Belgium
Application August 24, 1931, Serial No. 559,101, and in Germany July 7, 1931
10 Claims. (Cl. 18—53)



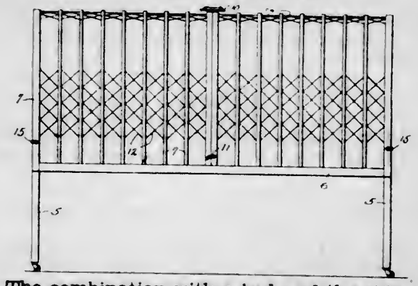
8. Process for the manufacture of articles of cellular rubber and ebonite with closed cells, such as plates and tubes sheathed with metal comprising a first partial vulcanization of the crude rubber in a mould in an autoclave charged with a gas under high pressure, a following expansion, the coating of the metal with a solution of rubber into a solvent, the assembling of the expanded rubber with the metal, a supplementary vulcanization bringing the rubber material of the article to the state of fixing desired and vulcanizing the rubber of the solution.

1,948,047
FUEL PUMP
Jules Marie René Retel, Neuilly-sur-Seine, France
Application July 18, 1930, Serial No. 468,931, and in France July 23, 1929
10 Claims. (Cl. 103—37)



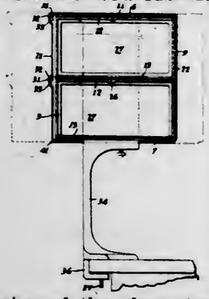
1. A device of the type described comprising in combination, a pump including a cylinder and a piston, a source of fluid, means for feeding fluid from said source to said pump cylinder, a fluid accumulator, discharge means for conveying fluid from said pump to said accumulator, discharge means for conveying fluid from said accumulator to the point of use for the fluid, a slide valve rigidly connected to said piston adapted to cooperate with the last mentioned discharge means for controlling the flow of the fluid therethrough, said slide valve being adjustable by rotating the piston about its axis, and adjustable means for controlling the amount of fluid delivered by the piston to the accumulator on the pump discharge stroke.

1,948,048
ENCLOSURE FOR BEDS
Ruth V. Riley, Fayetteville, Ark.
Application October 30, 1933. Serial No. 695,925
1 Claim. (Cl. 5—97)



The combination with a bed and the side rails thereof, of a guard comprising a plurality of bows, rollers at the ends of the bows and resting on the side rails to move thereover, and means for connecting adjacent bows.

1,948,049
DISPLAY CASE AND MOUNTING THEREFOR
Anthony A. Rose, Oakland, Calif., assignor to M. J. Frick Hamilton, Los Angeles, Calif.
Application November 5, 1932. Serial No. 641,409
10 Claims. (Cl. 312—114)



9. In a device of the character described, a display case, a support therefor, said support having lateral extensions and cooperating portions on the extensions and case for adjustably, slidably positioning the case on the support, means for mounting said support on a base, said mounting means and said cooperating portions for said case and support being constructed to prevent tilting of said display case during all positions of adjustment.

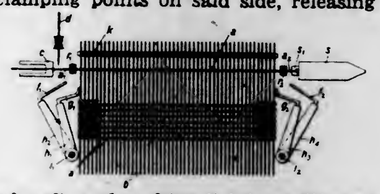
1,948,050
VEHICLE DIRECTION SIGNAL
Domenic A. Rossi, Springfield, Mass.
Application May 17, 1932. Serial No. 611,912
1 Claim. (Cl. 177—329)



In a structure of the class described, in combination, a vehicle tail light comprising a casing having a circular rim portion, a clamp embracing the rim portion of said casing and embodying a pair of substantially semi-circular sections, means for adjustably connecting the lower ends of said clamp sections, means for adjustably connecting the upper end of said clamp sections, a direction indicator attached to the outer side of each clamp section, said direction indicators being disposed on opposite sides of the tail light in alignment with each other on a horizontal plane passing through the tail light, and means for securely attaching said indicators to said clamp sections.

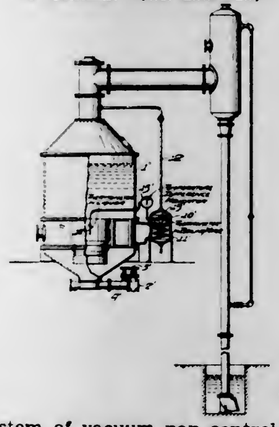
1,948,051
WEAVING
Rudolf Rossmann, Munich, Germany, assignor to TEFAG Textil Finanz A. G., Zurich, Switzerland
Application September 16, 1930, Serial No. 482,323, and in Germany September 23, 1929
15 Claims. (Cl. 139—126)

1. The improvement in the weaving art, which comprises moving a plurality of warp threads to form a shed, inserting a weft into said shed, holding said weft clamped in position on both sides of the shed at a distance therefrom, further clamping the weft adjacent opposite sides of the shed, severing said weft on the side of the shed at which the weft was inserted intermediate the two clamping points on said side, releasing the



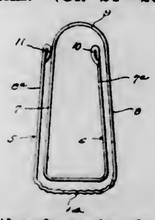
severed weft, and pushing it into position at the fell of the cloth.

1,948,052
SYSTEM OF VACUUM PAN CONTROL
Walter L. Smith, Honolulu, Territory of Hawaii
Application September 15, 1932
Serial No. 633,373
5 Claims. (Cl. 159—45)



1. A system of vacuum pan control, comprising a water boiler in which a pressure identical to that in the vacuum pan is maintained, electric resistance thermometers located in the vacuum pan and the water boiler respectively, and a temperature difference indicating device so connected in circuit with said thermometers as to indicate the boiling point elevation of the liquor in the vacuum pan.

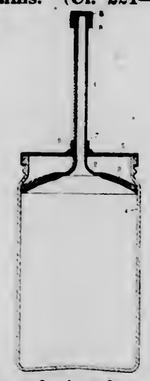
1,948,053
PRICE TAG HOLDER
Fritz Spindler, St. Louis, Mo.
Application May 12, 1933. Serial No. 670,785
1 Claim. (Cl. 24—261)



A spring clip of the character described, formed from a single length of wire and comprising a pair of co-acting substantially U-shaped jaws lying in substantially the same plane and arranged one within the other, said jaws having the sides thereof converging at one end of the clip,

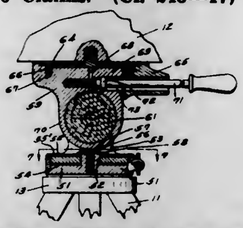
a curved connecting part connecting one side of the inner jaw with a side of the outer jaw remote from said one side of the inner jaw, and each of said jaws having the free side thereof at the terminal portion of the wire provided with a return bend, and the outer one of said jaws at the closed end of the U being worked to provide a substantially corrugated gripping part for said outer jaw.

1,948,054
DISPENSING DEVICE
Bruce W. Stringfellow, Culpeper, Va.
Application July 5, 1932. Serial No. 620,913
2 Claims. (Cl. 221—78)



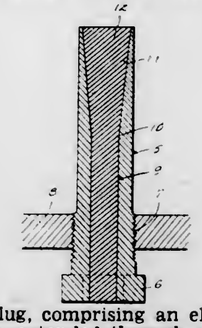
2. In an ejecting device for a container, the combination of a cover for the container having a centrally disposed orifice surrounded by a threaded flange; a tube slidable through said orifice and provided upon its lower end with a circumferential flange; a gasket pressed outwardly against the wall of the container, mounted upon the last mentioned flange; a bushing threaded upon the upper end of said tube, and having exterior threads corresponding with the threads of the flange about the cover orifice; and a cap interiorly threaded and adapted to be screwed upon the flange on the cover, and the bushing, alternatively.

1,948,055
CAMERA HEAD
Karl W. Thalhammer, Los Angeles, Calif.
Application June 8, 1927. Serial No. 197,381
6 Claims. (Cl. 248—47)



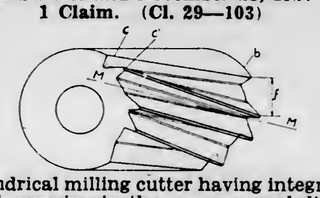
4. A mounting fitting of the character described, adapted to be interposed between coupling parts detachably securing an apparatus on a support, said fitting comprising a plurality of pivoting mechanisms forming a universal swinging joint including an expansible and compressible member, coupling members terminating said mechanisms, said members being complementary to and adapted to connect with the detachable coupling parts, an extension carried by one of said mechanisms, a handle terminating said extension whereby the swinging movement of the joint is controlled, said extension having releasably engaging means with said joint for locking one of said mechanisms against movement.

1,948,056
FUSIBLE BLOW-OUT PLUG
Lester O. Thompson, Oklahoma City, Okla.
Application November 12, 1932
Serial No. 642,468
2 Claims. (Cl. 122—504.3)



1. A fuse plug, comprising an elongated body designed to be extended through an opening in a crown sheet, means for securing the body adjacent one end to the crown sheet with the major portion of the body within the boiler of which the crown sheet forms a part, said plug having a bore extending therethrough which is of constant diameter from the end of the body adjacent the crown sheet to a point beyond the crown sheet and then constantly increasing in diameter to the other end, and a fusible filling in said bore.

1,948,057
ROTARY CUTTING TOOL
Alois Tscherne, Rorschach, Switzerland
Application April 3, 1928, Serial No. 267,043, and in Switzerland November 25, 1927
1 Claim. (Cl. 29—103)

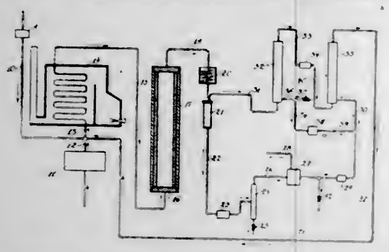


A cylindrical milling cutter having integral helical teeth running in the same general direction from end to end and each alternate tooth at a different angle with respect to the axis of the cutter than each intermediate tooth, so that the groove between each pair of teeth widens progressively in one direction, each tooth being constant in cross section from end to end and each groove between each pair of teeth being constant in depth from end to end, so that the bottoms of the grooves are concentric with the cutter.

1,948,058
DESTRUCTIVE HYDROGENATION OF CARBONACEOUS MATERIALS
Lajos von Szeszich, Constance, Germany
Application May 25, 1931, Serial No. 540,013, and in Germany October 30, 1930
5 Claims. (Cl. 196—53)

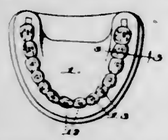
1. A process for the treatment of a carbonaceous material which consists in subjecting the material to the action of hydrogen at a high tem-

perature and pressure in the presence of hydrogen sulphide and of a catalyst containing material selected from the group which consists of molybdenum and tungsten, separating the reaction products into a gaseous and a liquid portion by cooling while substantially maintaining the pressure of the reaction, substantially removing from



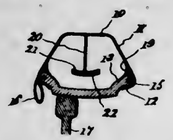
said reaction products corrosive sulphur compounds including hydrogen sulphide, pumping said gaseous portion back to the reaction and adding a portion of said recovered hydrogen sulphide to said gaseous portion after the latter has passed the pumping apparatus and in such an amount that the activity of said catalyst is increased.

1,948,059
DENTAL DEMONSTRATING DEVICE
Hubert O. Baugh, St. Petersburg, Fla.
Application December 30, 1931
Serial No. 583,949
6 Claims. (Cl. 35—16)



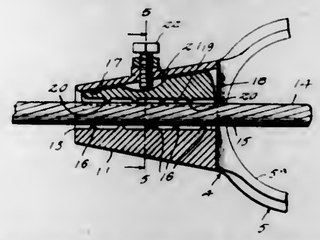
1. A dental demonstrating device comprising a tooth mounting, a spring leaf, teeth to be mounted on said mounting, and a prong on each tooth, said spring leaf being slitted to provide individual spring means for separately pressing against the individual prongs to hold the teeth in the mounted position.

1,948,060
VEHICLE WHEEL AND TIRE
Pierre Marcel Bourdon, Paris, France, assignor to Michelin Et Cie, Clermont-Ferrand, France, a corporation of France
Application January 28, 1932, Serial No. 589,481, and in France March 5, 1931
4 Claims. (Cl. 295—31)



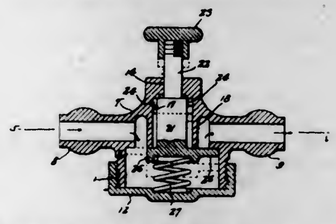
1. A vehicle wheel and tire comprising a rim having deep side walls, flanges on the side walls, a substantially flat flexible casing having beads at its sides for removably being received within said flanges, and strips between the side walls of the rim and said beads, said strips being substantially triangular in cross section and having inner concave parts exposed to the air pressure.

1,948,061
FASTENER FOR CONNECTING HIGH VOLTAGE CONDUCTORS TO INSULATORS
Thomas H. Bowen, Louisville, Ky.
Application May 19, 1931. Serial No. 538,524
7 Claims. (Cl. 173—313)



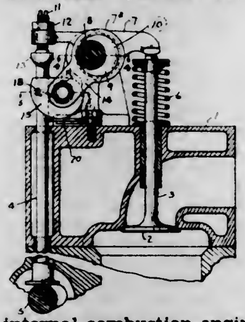
3. A fastener for connecting a conductor to an insulator having a top or head provided in its upper end with a diametric conductor receiving groove, the fastener having opposed arms adopted to register with the ends of said groove, the arms having upwardly opening longitudinally elongated conductor receiving grooves constituting continuations of the groove in the head, one wall of each groove being recessed, and a wedge disposed in the recess of each arm, the recess being of a depth such that the wedge may be disposed entirely within the recess to permit the ready insertion of the conductor or removal thereof when the wedge is fully retracted, and means whereby each wedge may be shifted transversely of its length into operative clamping engagement with the conductor.

1,948,062
FLUID REGULATING AND CUT-OFF VALVE
Joseph W. Brunette, Detroit, Mich.
Application July 11, 1933. Serial No. 679,972
3 Claims. (Cl. 251—137)



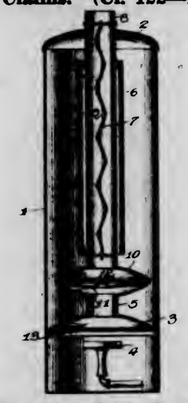
2. A valve structure of the class described comprising a body including a hollow centralized body portion having a pair of longitudinally aligned hose attaching nipples, said body including a circular base portion having a depending screw-threaded rim, a detachable screw-threaded cap threadedly connected with said rim, the interior of said body having a pair of diametrically opposite ports in communicating relationship with said nipples selectively usable seats surrounding said ports, a slidable and rotary valve unit comprising a stem formed at its inner end with a valve head selectively engageable with said seats, said valve body being fashioned with a guide to accommodate a portion of the stem, the outer end portion of said stem being provided with a depressing knob, the valve head being fashioned with a spring-retention seat, said cap being formed with a spring holding seat, a spring arranged in said seats for normally retaining the valve head closed.

1,948,063
MECHANICAL CLEARANCE REGULATOR
Otto M. Burkhardt, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio
Application August 17, 1932. Serial No. 629,156
14 Claims. (Cl. 123—90)



2. In an internal combustion engine, the combination with a valve-operating mechanism having a valve-actuating lever arm, of an eccentric upon which said lever arm is mounted for angular movement thereabout, a cam operatively connected with said eccentric, and a substantially stationary abutment for engagement by said cam, said cam being movable about its own axis and upon its abutment during the valve-opening period in accordance primarily with the movement of said eccentric by said lever arm, and said parts being so constructed and arranged that lack of adjustment in the mechanism will be corrected by automatic movement of said cam and eccentric during the post-valve-operating period.

1,948,064
INTERNAL FLUE FOR HOT WATER HEATERS
William G. Cartter, Monrovia, Calif., assignor to Day & Night Water Heater Co., Ltd., a corporation of California
Application January 26, 1931. Serial No. 511,337
6 Claims. (Cl. 122—17)



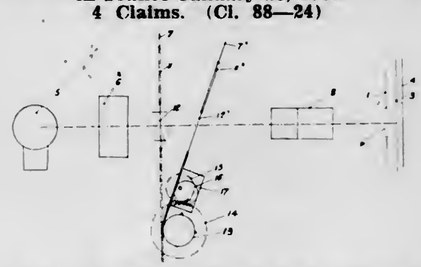
1. In a water heater of the character described, provided with a central flue for the escape of burner gases, a zigzag partition mounted substantially in the center of said flue and completely spaced from the wall thereof throughout its length so as to divide the flue into two substantially equal parts and to provide a space for the gases entirely surrounding the partition, the lower end of said partition being disposed centrally of the flue and means for retaining said partition in said position.

1,948,065
SLIDING DOOR CONSTRUCTION
Earl W. Clark, Warren, Ohio, assignor, by mesne assignments, to National Manufacturing Company, Sterling, Ill., a corporation of Illinois
Application August 17, 1929. Serial No. 386,622
26 Claims. (Cl. 20—20)



26. A sliding door construction comprising, in combination, a door having a plurality of panels flexibly secured together, a jamb defining a door opening, tracks including top sections and downwardly extending sections adapted to guide a plurality of the door panels in a straight path during the downward closing movement of the door, coacting shifting means movable with the door panels and fixed with respect to the jamb, respectively, and being constructed and arranged to bodily and unitarily shift said panels only as the door approaches its final closed position and when said panels are in substantially vertical alignment.

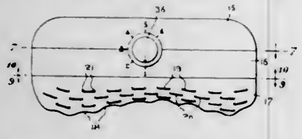
1,948,066
CINEMATOGRAPHIC PRINTING MACHINE
André Léon Victor Clement Debrie, Paris, France
Application March 3, 1932, Serial No. 596,645, and in France January 26, 1933
4 Claims. (Cl. 88—24)



1. In a cinematographic printing machine, the combination of a positive film, a negative scene-carrying film in contact with the positive film, means for driving simultaneously both films, an auxiliary band provided with a plurality of alternating blank and inscription carrying spaces the height of all of which is equal to that of a picture of the negative, means for advancing said band through heights equal to that of one space, a source of light on the outside of the band with reference to the films adapted to illuminate said band and films, an object-glass adapted to focus the band on the positive film through the negative film and mechanical means for shifting the

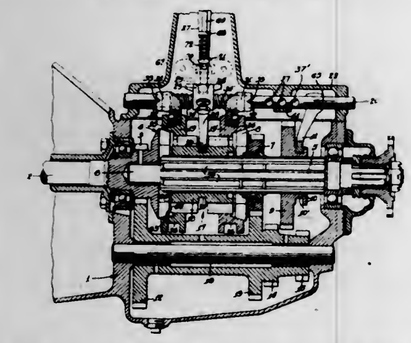
band out of focus with reference to the object-glass and film arrangement whenever a blank space of the band is being projected on the positive film.

1,948,067
ELECTRICAL MASSAGING DEVICE
Celina de Carreño and Fulgencia Archila, New York, N. Y.
Application July 9, 1930. Serial No. 466,828
1 Claim. (Cl. 174—175)



As an article of manufacture, an electrical massaging device comprising three vertical sections, one of said outer sections having a substantially rigid and corrugated surface for massaging purposes, said surface being concave in contour longitudinally and convex in contour transversely, and said corrugated surface carrying spaced rows of positive and negative electrodes in staggered pattern for application of electric current to the massaged body, batteries and an induction coil carried by the center and the upper sections, means for removably connecting said sections together, a switch for regulating the intensity of the current to the electrodes, and a second switch comprising a reciprocating rod biased to an open position and having a plurality of sleeves thereon with partial sleeve extensions, said sleeves and one of said extensions contacting with spaced contacts to connect said batteries to said coil in parallel, said rod being also capable of rotation on its own axis to disconnect said first extension and to connect said remaining sleeve extensions to said spaced contacts and thereby connect said batteries to said coil in series.

1,948,068
CLUTCH MECHANISM
Gordon C. File, Buchanan, Mich.
Application November 9, 1931. Serial No. 573,962
6 Claims. (Cl. 192—53)

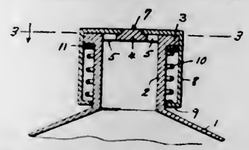


1. The combination with a driving shaft and a driven shaft of a clutch means comprising a driving element and a driven element, said driving element being rotatable by the driving shaft and said driven element being non-rotatably mounted on the driven shaft, an arcuate shaped flange portion connected with one of the elements and disposed concentric and in spaced relationship with the driven shaft, said flange portion terminating in shoulder portions, a radially extending peripheral flange portion connected with the other of said elements and terminating in shoulder portions, a radially extending offset flange portion connected with the element having the radially extending flange portion and disposed in spaced apart position with respect to said radially extending flange portion, said arcuate-shaped and radially extending flange portions being provided with frictional means adapted for engagement, one of said elements being movable for moving the frictional means into mutual engagement, said last named element being further movable for moving the offset flange portion into engagement with the arcuate-shaped flange portion subsequent to the engagement of the frictional means whereby a shoulder portion of the radially extending flange portion may be positioned for engagement with a shoulder portion of the arcuate-shaped flange portion, said last named element being further movable subsequent to the engagement of the shoulder portions whereby the elements may be retained in locked relationship.

1,948,069
PRODUCTION OF PARAFORMALDEHYDE
Otto Fuchs and Erich Naujoks, Constance, Germany, assignors to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a company of Germany
No Drawing. Application March 16, 1932, Serial No. 599,346, and in Germany March 21, 1931
4 Claims. (Cl. 260—140)

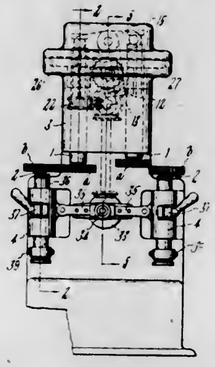
1. In the production of readily soluble paraformaldehyde from formaldehyde by removal of water the step of incorporating with the aqueous formaldehyde an organic liquid capable of producing with the water an azeotropic mixture of low boiling point and distilling said mixture.

1,948,070
SELF-SEALING PASTE TUBE
Charles Hasse and George Woolley, Toms River, N. J.
Application October 5, 1932. Serial No. 636,407
1 Claim. (Cl. 221—60)



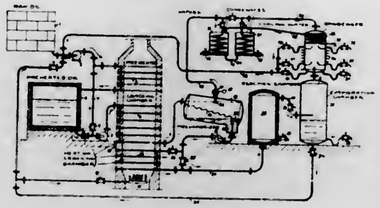
In combination with a tube of compressible material, a neck having its outer end closed, the closing part having an opening therein located at one side of the center, an outwardly extending flange at the outer end of the neck, the outer face of the closing part and the outer face of said flange being flat and arranged in the same plane, a boss at the central part of said outer face of the closing part, a cap fitting over the neck and its flange and having a flange at its inner end, a spring encircling the neck and confined between the flanges for normally holding the cap in closed position, the closed end of the cap having a flat inner face for contacting the flat outer face of the closing part of the neck and its flange, when the cap is in closing position, said closed end of the cap having a centrally arranged opening therein for receiving the boss when the cap is in closed position.

1,948,071
METHOD AND EQUIPMENT FOR LAPPING SPUR-HELICAL AND INTERNAL GEARS
Felix C. Hofmann and Fritz F. Rohl, Berlin, Germany
Application April 15, 1929, Serial No. 355,240, and in Germany April 16, 1928
13 Claims. (Cl. 51—278)



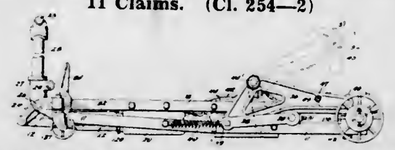
11. A method of lapping gears which consists in rotating two mating gears in mesh with the exertion of pressure between contacting teeth, and simultaneously imparting relative bodily movement to the axes of said gears, said relative movement being such that points of contact between respective meshing gear teeth move on a path which continuously varies in direction.

1,948,072
APPARATUS FOR TREATING HYDROCARBONS
Hans Magnus, Au, near Freiburg, Germany
Application March 12, 1929, Serial No. 346,319, and in Germany March 10, 1928
2 Claims. (Cl. 196—132)



1. An apparatus for treating hydrocarbons comprising an oil reservoir, a preheating coil, a cracking coil, a direct pipe leading from said reservoir to said cracking coil, another pipe leading from said reservoir to the preheating coil and from here into said direct pipe, valves in both pipes, a pump in the pipe between the juncture of the direct pipe with the pipe carrying the pre-heated oil and the cracking coil, and means for regulating the operative position of said valves in dependency upon the temperature in the cracking coil to increase the flow through said direct pipe when the temperature in the cracking coil rises, and to reduce the flow through said direct pipe if the temperature in the cracking coil drops.

1,948,073
HYDRAULIC JACK
Robert E. Manley, York, Pa., assignor to The Manley Manufacturing Company, York, Pa., a corporation of Delaware
Original application January 5, 1926, Serial No. 79,435, now Patent No. 1,805,588, dated May 19, 1931. Divided and this application May 5, 1931. Serial No. 535,263
11 Claims. (Cl. 254—2)



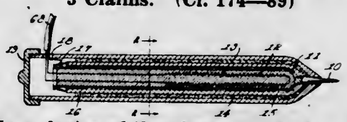
1. In a jack having a chassis, a pair of spaced parallel levers pivoted about alined axes in said chassis, spaced means for joining said levers to form a frame, a load support on one of said means, and means beneath said alined axes and on said chassis for rocking the frame to raise and lower the load support.

1,948,074
SHEATH HOLDER FOR A ROUGE STICK
René Matheret and Louis Garreau, Paris, France
Application October 19, 1931, Serial No. 569,770, and in France November 18, 1930
1 Claim. (Cl. 206—56)



A sheath holder for rouge sticks and the like comprising a body of quadrangular section open at one end, said body being formed with a longitudinally ranging slot, a sleeve of circular section in the body and spaced therefrom, said sleeve being formed with a slot offset at right angles to the slot in the body, said sleeve being further formed with spaced parallel longitudinal slots, a rouge stick receiving slide movable within the sleeve, a finger piece extending through the slot in the body and the parallel slots in the sleeve and directly connected to the slide, and a flexible ribbon slidable between the sleeve and body and connected to the slide through the offset slot in the sleeve, the free end of the ribbon opening and closing the end of the body following the direct movement of the slide responsive to finger piece movement.

1,948,075
HEATED METAL POINT ELECTRODE
Yasutaka Miyaoka, Colfax, Calif.
Application May 8, 1931. Serial No. 536,008
3 Claims. (Cl. 174—89)



1. In a device of the class described, a tubular element, a needle point carried thereby, an insulated electrical resistance unit within said tubular element, means for energizing said element, a contact electrode for application to a

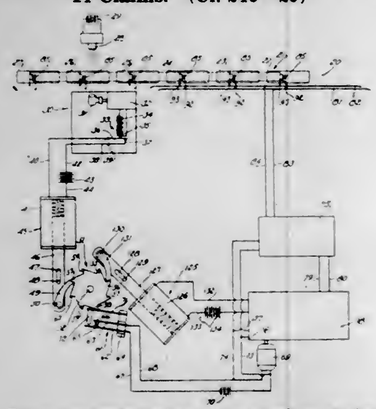
member to be treated, said means for energizing the tubular element including a circuit, separable contact devices and electro-magnetic induction devices, fixed and variable resistance devices in the respective sides of the circuit constituting a portion of the energizing means, and independent means for conveying pulsating current to the needle through the tubular element, the latter being heated by the resistance unit therein.

1,948,076
BREAST SUPPORTER
Bernard Notes, Washington, D. C.
Application August 9, 1933. Serial No. 684,420
2 Claims. (Cl. 2—42)



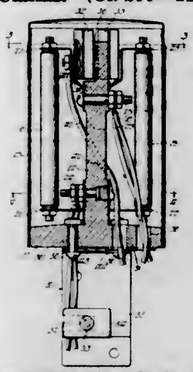
1. A supporter for lactating breasts consisting of an oblong shaped band of material having a high elasticity in the longitudinal direction and relatively inelastic in the transverse direction, the longitudinal elasticity being substantially uniform across the width of the band, and an adjustable connector of the slidable type and arranged to connect the ends of the band along the entire width thereof and converting the same into a circular band, and having means for permanently connecting the lower corners of the ends of the band, said connector being so disposed that it is operable upwards to close the band and downward to open the same, whereby the band offers positive support and lift for the breasts without any undue compression.

1,948,077
CONVEYER STOP ANNOUNCING SYSTEM
John O. Prescott, Madison, and Ernest W. Franck, Paterson, N. J., assignors to Columbia Phonograph Company, Inc., Bridgeport, Conn., a corporation of New York
Application March 15, 1932. Serial No. 598,920
14 Claims. (Cl. 246—29)



1. In a conveyer stop announcing system, in combination, a pathway for a conveyer, a photoelectric relay, a source of light positioned to direct a beam of light onto said relay and have said beam interrupted by a conveyer traveling along said pathway, a normally open circuit, means controlled by said relay and operable to close said circuit on interruption of said light beam, a second normally open circuit, means including means in said first normally open circuit for closing the second normally open circuit on closing of the first normally open circuit by interruption of said light beam, said means comprising a pair of contacts in the second circuit, a solenoid in the first circuit, a ratchet wheel operable to permit said contacts to move into engagement, a pawl movable by said solenoid and adapted to operate said ratchet wheel, sound energy generating means controlled by said second circuit, a bus bar along a portion of said pathway, a connection between said sound energy generating means and the bus bar, a conveyer, a loud speaker on the conveyer, means on the conveyer to engage the bus bar, and said means connected with the loud speaker whereby sound energy delivered to the bus bar will be transmitted to and reproduced by the loud speaker when the means on the conveyer engages the bus bar.

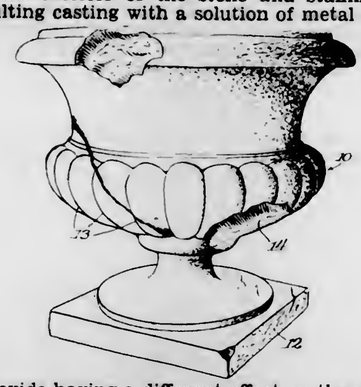
1,948,078
TELEPHONE STATION OUTDOOR PROTECTOR
George W. Rodormer, Park Ridge, Ill., assignor to Reliable Electric Company, Chicago, Ill., a corporation of Illinois
Application September 5, 1931. Serial No. 561,346
11 Claims. (Cl. 200—115)



1. An outdoor protective device for telephone and similar systems comprising an insulating base, mounting means therefor, a staff portion rising from said base and having on opposite sides thereof fuse mountings, which mountings are staggered so as not to lie directly opposite each other, said base having provisions for receiving the line connections on one side of said staff and the instrument connections on the other side thereof.

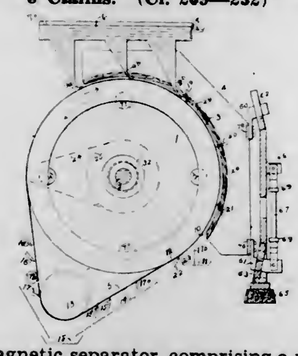
1,948,079
OLD STONE
Alvin A. Schmidt, Bensenville, Ill.
Application December 19, 1929
Serial No. 415,285.
4 Claims. (Cl. 41—10)

1. The method of producing artificial antique stone which comprises forming a suitable aggregate, casting the same with a suitable binder, breaking the pre-cast mass into relatively smaller pieces, forming a second aggregate including the pre-cast aggregate, casting the final aggregate into a suitable mold with a suitable binder to produce a rotted or vermin eaten appearance on the exterior of the stone and staining the resulting casting with a solution of metal oxides,



the oxide having a different effect on the precast aggregate than on the material added in the second aggregate.

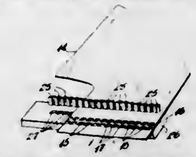
1,948,080
MAGNETIC ORE SEPARATOR FOR WET AND OTHER OPERATIONS
Percy H. Thomas, Upper Montclair, N. J.
Application May 10, 1930. Serial No. 451,341
8 Claims. (Cl. 209—232)



1. A magnetic separator, comprising a revolving magnetized wheel, having positive and negative pole pieces circumferentially disposed and substantially uniformly distributed over the outer circumference of said wheel, a non-magnetic belt running on said pole pieces, means for feeding a stream of liquid pulp onto said belt in a thin layer the pulp flowing on top of and in contact with the belt on whose surface the magnetic material is collected by the magnetic field through a predetermined operating range, and means for separately controlling the speeds of said pulp, and said belt to produce a relative velocity between them and thus causing the liquid pulp to continuously wash the layer of magnetizable material as it gathers on the belt under the magnetic influence.

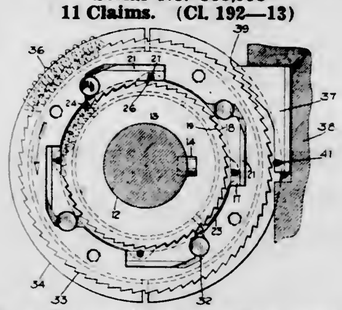
1,948,081
METHOD OF AND APPARATUS FOR MAKING BATTERY PLATE SEPARATORS
Joseph R. Silver, Jr., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application January 3, 1929. Serial No. 330,111
2 Claims. (Cl. 164—89)

2. The method of making a perforated sheet of substantially inextensible material which comprises simultaneously punching from the sheet a series of areas aligned laterally of the sheet and separated by narrow unpunched strips of the sheet inclined to a lateral margin of the sheet, advancing the sheet in the direction of its length by an amount greater than the extent of the punched areas along the line of feed, and then



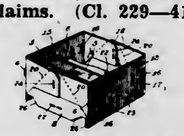
punching from the sheet a similar series of areas separated from the first series by a narrow unpunched strip of the sheet and from each other by narrow unpunched strips inclined with respect to a lateral margin of the sheet and terminating opposite areas removed by the preceding punching step.

1,948,082
FREE WHEEL AND BACK STOP DEVICE
Ole Stangeland, Chicago, Ill.
Application September 21, 1931
Serial No. 563,993
11 Claims. (Cl. 192—13)



1. In a device of the character described, a driving member, a driven member, teeth carried by the driven member, a plurality of pawls slidably carried by the driving member in a plane tangent to the teeth on the driven member, a pawl controlling member frictionally supported on the driven member and having connections with the pawls to slide them in and out of engagement with the teeth on the driven member.

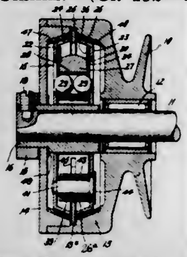
1,948,083
FOLDING FRUIT BOX
Franklin E. Warner, Seattle, Wash.
Application December 8, 1931. Serial No. 579,737
4 Claims. (Cl. 229—41)



1. A folding fruit box made of a single piece of foldable material and comprising a rectangular bottom, four narrow strips joining the bottom along foldable lines, four side flaps joining the narrow strips along foldable lines, wing flaps joining the sides of two of the oppositely disposed side flaps along foldable lines, said narrow strips secured to the side flaps at points outside of the bottom whereby four bottom flanges of double thickness are provided by swinging said narrow strips to a vertical position when the side flaps

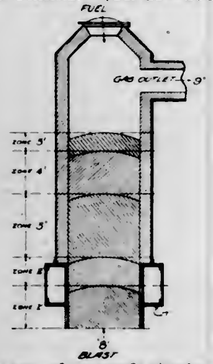
are raised to an upright position, and the overlapping ends of the opposite wing flaps secured together whereby they serve as reenforcements for two of the side flaps when raised to the upright position.

1,948,084
CLUTCH
Alfred F. Welch, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application March 18, 1933. Serial No. 661,515
19 Claims. (Cl. 192—105)



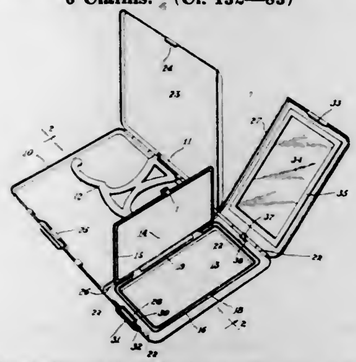
1. A centrifugally actuated mechanism including a ball outwardly movable from a retracted position by centrifugal force, a substantially flat spring having a recess therein, and means for maintaining said ball under pressure in contact with said spring, said ball in its retracted position partially entering the recess in said spring.

1,948,085
PRODUCER GAS PROCESS USING SODIUM CARBONATE
Alfred H. White, Ann Arbor, Mich., and David A. Fox, Milwaukee, Wis.
Application March 26, 1931. Serial No. 525,437
2 Claims. (Cl. 48—203)



1. The process of manufacturing fuel gas low in carbon dioxide from solid carbonaceous fuel in a gas generator which comprises mixing with a carbonaceous fuel less than ten per cent of its weight of a sodium compound which is capable of reacting with the fuel and evolving a continuous stream of the alkali metal vapor, forming said mixture into a fuel bed, igniting the mixture and blasting it with air and steam so that a reaction zone is formed and CO, H_2, CO_2 and a substantial amount of alkali metal vapor shall be evolved, said alkali metal vapor reacting with carbon dioxide and blast steam remaining undecomposed forming carbon monoxide, and hydrogen with the formation of solid sodium carbonate, filtering out said solid carbonate by its passage through the upper part of said fuel bed and returning said solid carbonate to the reaction zone as the fuel descends through the generator, removing gas as produced, and regularly adding fuel together with additional sodium compound to the extent necessary to replace unavoidable losses thereof.

1,948,086
VANITY CASE
Louis C. Wolfson, New York, N. Y.
Application August 11, 1933. Serial No. 684,617
6 Claims. (Cl. 132—83)



1. A vanity case embodying therein a body, a clip hingedly connected thereto and positioned within and adjacent one end thereof, a dished member secured within and adjacent the other end of said body, the relative dimensions of said body and said dished portion being such as to permit the storage of cigarettes adjacent said clip, and the storage of face powder and a powder puff within said dished member, independent covers hinged to said body adjacent opposite ends thereof, co-operating latch members acting upon said body and said covers respectively, and an inner closure for said dished member.

1,948,087
MACHINE FOR MAKING MULTIPLE UNIT STRUCTURAL SLABS
Nathaniel L. Aberson, Detroit, Mich.
Application April 17, 1933. Serial No. 666,453
10 Claims. (Cl. 154—1)

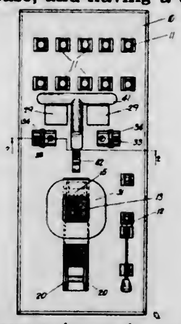


1. A machine for making multiple unit structural slabs having a plurality of briquets or the like mounted upon a backing member, comprising means for propelling the backing members one after another substantially in a straight path, and a plurality of guide devices positioned at different points of transverse of the width of the backing members, there being one guide device for each row of briquets to be placed upon the backing member and against which the briquets are to be placed for proper location.

1,948,088
REMOTELY CONTROLLED ELECTRIC SWITCH
Frederick B. Adam, St. Louis, Mo., assignor to Frank Adam Electric Co., St. Louis, Mo., a corporation of Missouri
Application March 18, 1929. Serial No. 347,937
8 Claims. (Cl. 200—87)

1. In a remote control electromagnetic switch, a base of moulded material provided with a recess in one face thereof, a pivoted contact carrier,

main and auxiliary contacts on said carrier, a companion main contact mounted upon said base, and an auxiliary contact assembly secured in the recess in said base, and having a circuit connec-



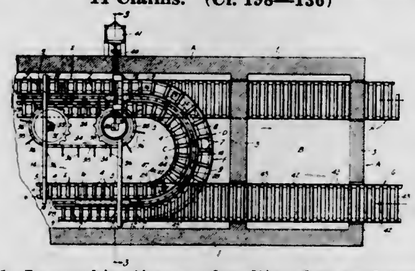
tion with said companion main contact, said auxiliary contact assembly including a contact blade, and an angulate pivot seat element in said recess, adapted to retain the contact blade for pivotal movement therein.

1,948,089
SEALED PACKAGE
Howard G. Allen, Niagara Falls, N. Y., assignor, by mesne assignments, to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application December 26, 1931
Serial No. 583,237
8 Claims. (Cl. 229—5.7)



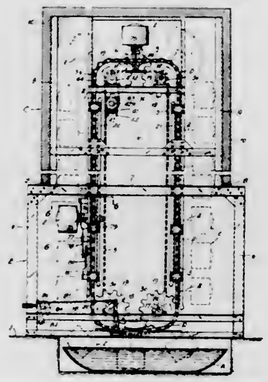
1. A container for an article of pastry or the like comprising a holder of circular form having a side wall and adapted to hold an article, a covering of thin flexible material the peripheral edges of which overlap parts of the side wall, a strip of fibrous material over the peripheral edge of the covering, said strip having an irregularly shaped inner edge to render the same of curved formation, a metallic reinforcing means for maintaining such irregular shape in said strip, and means securing the strip to the side wall.

1,948,090
CONVEYER
John M. Alvey, New York, N. Y., assignor to Alvey Conveyor Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application March 12, 1932. Serial No. 598,379
11 Claims. (Cl. 198—136)



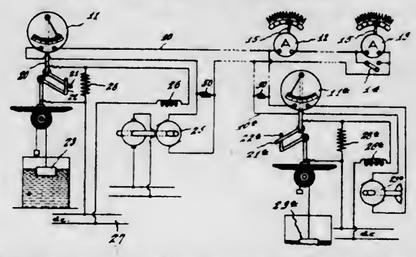
1. In combination, a plurality of spaced tortuous rollerways, a movable member in position to simultaneously engage articles on different rollerways, and a circuitous track for supporting said movable member along said rollerways.

1,948,091
CONVEYER
John M. Alvey, New York, N. Y., and Roy R. Worrall, Webster Groves, Mo., assignors to Alvey Conveyor Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application September 24, 1931
Serial No. 564,734
13 Claims. (Cl. 91—55)



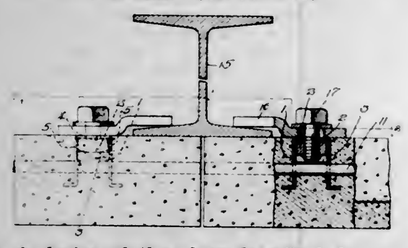
1. The combination of a liquid container, an oven associated therewith, endless flexible conveying means passing above said liquid container and through said oven, article carrying members extending from said conveying means in such manner that articles carried thereby will pass below the normal liquid level of said liquid container and means operatively connected to said article carrying members for rotating them simultaneously and continuously on said conveying means during their entire course of travel.

1,948,092
METHOD AND APPARATUS FOR PRODUCING GOVERNED MOTION AT A DISTANCE
Donald J. Angus, Indianapolis, Ind.
Application July 15, 1931. Serial No. 550,857
20 Claims. (Cl. 177—351)



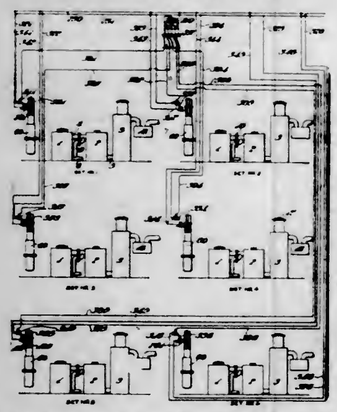
1. The method of producing governed motion at a distant point, which comprises supplying a variable direct-current electrical quantity to a meter at an initial point and to a meter at the distant point, governing in common by a gradually variable electrostatic field the variable electrical quantity supplied to both meters, and controlling said gradually variable electrostatic field by relative movement between a primary mover and the meter at the initial point.

1,948,093
INSERT FOR CEMENTITIOUS SLABS
Virgil E. Baird and Clyde Griffiths, Chicago, Ill., and Frank De Marais, Hammond, Ind., assignors to Federal-American Cement Tile Company, Chicago, Ill., a corporation of Illinois
Application September 5, 1931, Serial No. 561,358
7 Claims. (Cl. 72—105)



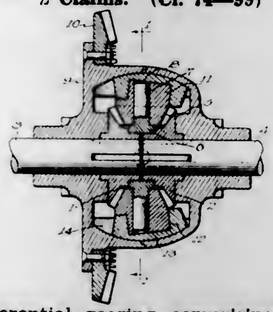
2. A device of the class described for use in cementitious products having a reinforcing member therein, comprising a substantially U-shaped anchor member, a nut for non-rotatably fitting into said anchor member and a substantially U-shaped cap member for enclosing said nut to maintain the same adjacent the inner end of said anchor member, said anchor member having apertures in the sides thereof outwardly of said cap member for receiving said reinforcing rod therethrough adjacent the outer end of said cap to maintain said cap and nut in the inner end of said anchor member and to support and position said reinforcing member during the formation of said products.

1,948,094
AUTOMATIC CONTROL SYSTEM FOR GAS-MAKING APPARATUS
Walter A. Barr, Fort Wayne, Ind., assignor to The Western Gas Construction Company, a corporation of Indiana
Application February 23, 1928. Serial No. 256,110
4 Claims. (Cl. 48—83)



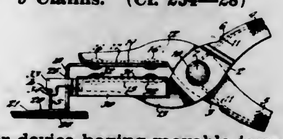
1. In apparatus for making water gas, the combination of two or more water gas sets each including a water gas generator and a heat interchange vessel with valves thereon and each adapted for operation in a cycle of air blasting and water gas making, an automatic control machine for each set adapted to cause it to operate in a cycle, and a master automatic machine for starting the automatic machines appertaining to the respective sets in predetermined sequence.

1,948,095
DIFFERENTIAL GEARING
Frederick L. Boynton, Sycamore, Ill., assignor to Mary E. Boynton, Sycamore, Ill.
Application January 19, 1933. Serial No. 652,503
2 Claims. (Cl. 74—99)



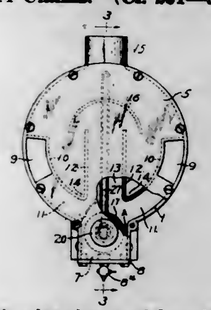
1. Differential gearing comprising a pair of driven gears, a driving pinion intermediate said gears and meshing therewith; a supporting and driving element for said pinion arranged to impart a planetary motion to the pinion, said pinion being provided with an eccentric, and an element fitting said eccentric and slidably engaging the said support.

1,948,096
STAPLE EXTRACTOR
John F. Cavanagh, Providence, R. I., assignor to Boston Wire Stitcher Company, Portland, Maine, a corporation of Maine
Application December 18, 1931
Serial No. 581,818
9 Claims. (Cl. 254—28)



2. A plier device having movable jaws, a member projecting from one of the jaws downwardly across the end of the opposite jaw and terminating in a forwardly projecting tapered blade having openings therein, and a member on the opposite jaw having fingers projecting forwardly with hooked prongs at their ends adapted to seat in the openings in the blade.

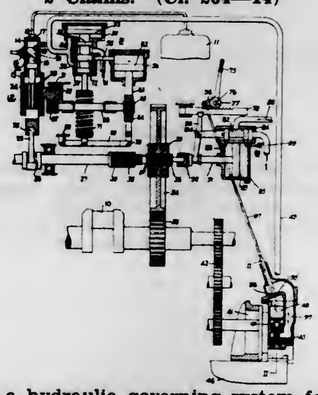
1,948,097
AIR CLEANING AND HUMIDIFYING DEVICE
Andrew Chizmar, Hartford, Conn.
Application December 19, 1932
Serial No. 647,890
14 Claims. (Cl. 261—99)



1. In an air cleaning and humidifying device, the combination of a water sump, a wick at the

sump partly below and partly above the water level and movable to bring different portions alternately into exposed and submerged positions with respect to the water level, and means for directing the air first against and then outwardly away from the outer surface of the exposed portion of the wick.

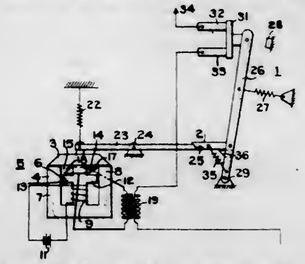
1,948,098
HYDRAULIC GOVERNING SYSTEM
Edward S. Dennison, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application November 28, 1930
Serial No. 498,831
2 Claims. (Cl. 264—14)



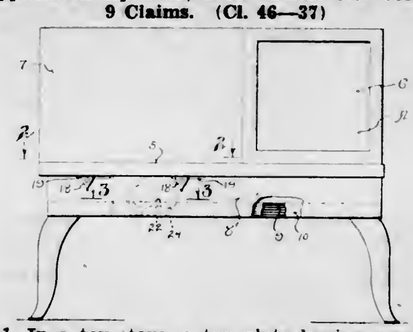
1. In a hydraulic governing system for a variable-speed prime mover having a motive fluid admission means and pressure-responsive means for regulating the admission of motive fluid thereto, the combination of a pump for providing a governing fluid pressure varying as a function of the speed of the prime mover and including an inlet and an outlet, conduit means connecting the outlet of the pump and the pressure responsive means, a relatively short and continuous recirculating conduit connecting the outlet of the pump directly to the inlet thereof for conveying fluid as it comes from the outlet of the pump directly back to the inlet and thereby maintain the viscosity of the governing fluid at a low value, speed-changer mechanism including adjustable means for imposing a variable resistance to the flow of fluid through the recirculating conduit so as to vary the pressure of the fluid in the conduit means which is connected to said pressure responsive means, a source of governing fluid, and conduit means connecting the source and the inlet of the pump for supplying only make-up fluid to the system.

1,948,099
ELECTROMAGNET FOR CIRCUIT BREAKERS AND THE LIKE
Robert C. Dickinson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application January 19, 1928. Serial No. 247,829
5 Claims. (Cl. 175—294)

1. An electromagnet comprising a core member and an armature, a normal magnetizing winding saturating the core member to retain the armature in closed position, a conductor that divides on passing through the core member to form parallel current paths one of which produces a magnetizing force that assists, the other a magnetizing force that opposes, the normal magnetic flux in the armature in such manner that a predetermined increase of current in said conductor releases the armature from engagement with the core member.



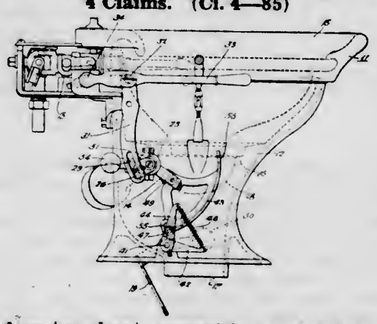
1,948,100
TOY STOVE
Elmer E. Drumm, Two Rivers, Wis.
Application April 29, 1933. Serial No. 668,605
9 Claims. (Cl. 46—37)



1. In a toy stove, a top plate having a series of openings therein, of selective means for registration with the openings for creating the appearance either of an electric burner or a flame.

9. In a toy stove, a top plate having a series of openings radiating from a common point to simulate the appearance of a burner, a disc pivoted at its axial center to the top plate having alternately arranged segments of different colors for selective registration with the openings, and a manipulating handle on said disc.

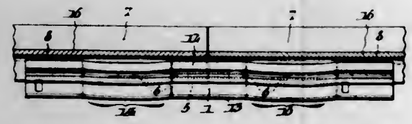
1,948,101
WATER CLOSET
John C. Duner, Chicago, Ill., assignor to Duner Company, Chicago, Ill., a corporation of Illinois
Application October 2, 1931. Serial No. 566,486
4 Claims. (Cl. 4—85)



1. A water closet, comprising a closet bowl, a dump pan mounted therebeneath for sealing en-

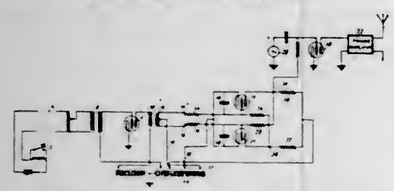
gagement, a draft member beneath said dump pan and mounted to swing on a horizontal axis, a cam conjointly movable with said dump pan, a cam follower associated with said draft member, and a spring connecting said cam follower to said draft member.

1,948,102
JOINT BAR
Robert Faries, St. Davids, Pa.
Application September 15, 1930
Serial No. 482,002
13 Claims. (Cl. 238—243)



1. A rail joint bar having portions of the length of the inner and outer surfaces of the head and foot laterally deflected from the normal longitudinal axis of the bar, and having portions of the length of the upper and lower surfaces of the head and foot vertically deflected from said axis of the bar, and having a continuous flat bolting surface at its web portion.

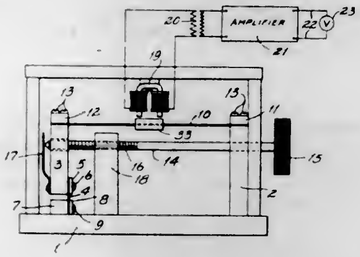
1,948,103
SIGNALING
James L. Finch, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 23, 1929. Serial No. 380,447
9 Claims. (Cl. 250—17)



1. An electrical circuit comprising a pair of electron discharge devices, a resistance connecting the control electrode of one device to the anode of the other device, another resistance connecting the control electrode of the other device to the anode of said one device, a resistance in series with the anodes of each device, a source of anode potential, said source of potential and resistances being connected together at a common point, and, an inductance connected between the control electrodes of said devices and to the cathodes thereof for applying controlling potentials to the control electrodes of said devices.

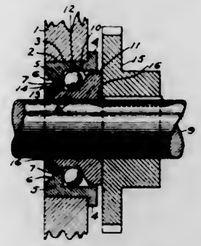
1,948,104
VIBRATION RESPONSIVE APPARATUS
Floyd A. Firestone, Ernest J. Abbott, and Harvard B. Vincent, Ann Arbor, Mich.
Application October 24, 1929. Serial No. 402,259
11 Claims. (Cl. 181—0.5)

1. Vibration responsive apparatus comprising a thin elongated reed having a mass at the middle thereof, means for gripping the ends of said reed, said means being adjustable to tension said reed endwise and said reed being entirely free between said gripping means so as to be able to vibrate transversely without restraint, whereby said reed is capable of being tuned into resonance with



an incoming vibration, and an indicator operatively related to said reed.

1,948,105
ANTIFRICTION BEARING
Hannibal C. Ford, Jamaica, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application May 4, 1928. Serial No. 275,196
7 Claims. (Cl. 308—189)

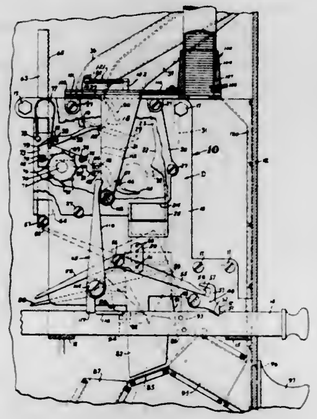


1. A ball bearing comprising telescoped inner and outer ball race members, annularly arranged balls therebetween, one of said members being provided with an annular groove near one end thereof, and a removable split ring fitting into said groove, the other of said members having an annular flange extending between said balls and ring and being overlapped by said ring, said flange having a conical surface extending across the path of withdrawal of said ring in such close proximity to said ring as to prevent the complete removal of the ring from said groove by radial expansion alone of the ring, said conical surface forming an outwardly flaring space for the removal of said ring and a lateral guide for said ring upon its removal.

1,948,106
PROCESS FOR THE PREPARATION OF METAL CYANAMIDS OR MIXTURES CONTAINING THE SAME
Hans Heinrich Franck, Berlin, Germany
No Drawing. Application October 19, 1927, Serial No. 227,352, and in Germany October 23, 1926
13 Claims. (Cl. 23—78)

1. A process for the preparation of material containing calcium cyanamid which comprises reacting with ammonia gas upon a calcium carbonate, at a temperature substantially at the dissociation temperature of the carbonate at ordinary pressure.

1,948,107
MULTIPLE COIN ACTUATED VENDING MACHINE
William L. Gilchrist, Los Angeles, Calif., and William T. Hoofnagle, Glen Ridge, N. J., assignors to Rowe Slug Ejector Co., Ltd., Los Angeles, Calif., a corporation of Nevada
Application June 24, 1932. Serial No. 619,028
9 Claims. (Cl. 194—39)



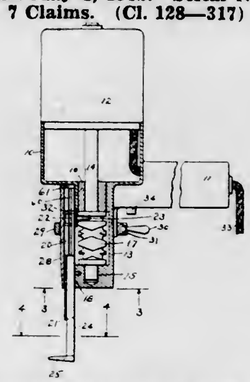
1. In a coin device, a plunger, a pivoted dog adapted to engage said plunger and normally prevent movement thereof in one direction, a lever pivoted adjacent one end, the opposite end of said lever engaging a portion of said dog to move it out of engagement with said plunger bar, a second lever pivoted intermediate its length, means adjacent one end of said second lever engaging said first lever to move the latter, a release bar slidably mounted and movable into engagement with said second lever, gear teeth on said release bar, a gear, said gear meshing with said bar gear teeth, a rotatably mounted shaft, said gear being secured to said shaft, an escapement wheel secured to said shaft, said escapement wheel including a plurality of spaced ratchet teeth, a movable plate adjacent said escapement wheel, a finger on said plate, a second finger on said plate, resilient means engaging said plate and normally swinging said first finger into engagement with said escapement wheel to prevent rotation of said escapement wheel, said second finger when said first finger engages said escapement wheel being out of engagement with said escapement wheel, means whereby a plurality of coins of different denominations actuate said plate to free said escapement wheel whereby said bar moves toward said second lever, said second finger when said first finger moves out of engagement with said escapement wheel being adapted to move into engagement with said escapement wheel to prevent rotation thereof beyond a predetermined amount, means whereby coins of different denominations free said escapement wheel a predetermined number of different times, said bar being adapted to engage said second lever and move said second lever whereupon said second lever moves said first lever and said first lever moves said dog out of engagement with said plunger and means whereby when said plunger is moved in one direction said bar will be returned to its initial position.

1,948,108
WEATHER STRIP
John A. Goellner, St. Louis, Mo., assignor to Monarch Metal Weatherstrip Corporation, St. Louis, Mo., a corporation of Missouri
Application April 19, 1933. Serial No. 666,830
5 Claims. (Cl. 20—68)



1. A weatherstrip comprising a laterally movable mounted sealing bar and means for actuating said bar, said means comprising an elastic strip and pairs of supports for said strip spaced apart longitudinally thereof, the support at one end of said strip preventing endwise movement thereof and the other supports permitting such movement, and means for slidably connecting said strip to said bar at points intermediate the supports of each pair, the span of the pair of supports at one end of said strip being less than the span of the pair of supports at the other end of said strip.

1,948,109
CUTTING DEVICE
Emil F. Hager, Richmond Hill, N. Y.
Application May 4, 1932. Serial No. 609,153
7 Claims. (Cl. 128—317)

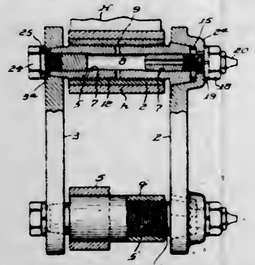


5. In a cutting device of the class described, a body member having an operating handle, an electric motor mounted on said body member, a guide secured on the body member, a bifurcated leg projecting from said guide and terminating in a foot insertable under the material to be cut, a punch reciprocatingly mounted in said guide and bifurcated leg, said foot containing a die opening with which the punch coacts during its reciprocations, the punch being of sufficient width to form a slot in the material being cut of greater width than the width of the leg so as to permit the leg to pass therethrough, and speed reducing means for converting the rotary motion of the motor to reciprocating motion and for imparting this speed-reduced reciprocating motion to the punch.

1,948,110
AUTOMOBILE SPRING SHACKLE
Frank C. Hobler, Elmira, N. Y.
Application November 18, 1932
Serial No. 643,202
6 Claims. (Cl. 267—54)

1. In means adapted to form a connection between relatively movable elements, an internally

threaded bushing seated in each element, an externally threaded pin extending entirely through each bushing, each of said pins having at one end a frusto-conical head provided with a flat area on its periphery and, adjacent the other end, a conical zone tapering outwardly toward the axis of the pin, a side link having pockets the walls of which respectively conform to the heads of the pins, another side link having openings the walls



of which respectively conform to said conical zones, and means extending through each side link in alignment with the respective pins operative to effect intimate engagement between the peripheries of the pin heads and the walls of the pockets and between the conical zones of the pins and said openings and thereby positively restrain the pins from relative movement with respect to both links.

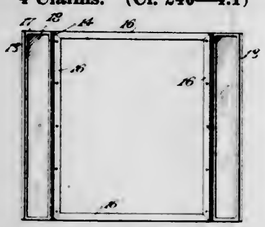
1,948,111

SIDE LIGHT ATTACHMENT FOR MIRRORS

Joseph A. Hoegger, Jersey City, N. J.

Application October 1, 1930. Serial No. 485,583

4 Claims. (Cl. 240—4.1)



1. A device of the kind described comprising, a mirror, a light diffusing surface, means for hingedly mounting said light diffusing surface at one edge of said mirror, the hinged edge of said light diffusing surface arranged in close proximity to said mirror and extending along at least a major portion of the proximate edge thereof, said light diffusing surface being at least partially pervious to light, and lighting means arranged at the rear of said light diffusing surface.

1,948,112

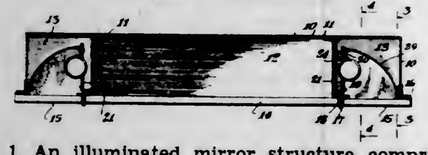
ILLUMINATED MIRROR ATTACHMENT

Joseph A. Hoegger, Weehawken, N. J.

Application December 22, 1931

Serial No. 582,528

14 Claims. (Cl. 240—4.1)



1. An illuminated mirror structure comprising a main mirror adapted to lie flat against a wall, lighting means, a chamber for said lighting means at the side and behind the plane of the main mirror, a swinging wing light diffusing member at the edge of the main mirror and a reflector on the back of the wing light diffusing member disposed to swing into said chamber when the wing light diffusing member is closed and to serve as a closure for said chamber when the wing light diffusing member is open.

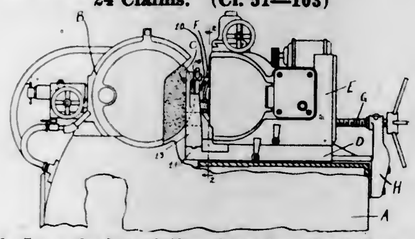
1,948,113

CENTERLESS WORK FEED

Herman Isler, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio

Original application April 20, 1925, Serial No. 24,477. Divided and this application March 22, 1928, Serial No. 263,653. Renewed December 21, 1929

24 Claims. (Cl. 51—103)



1. In a device of the class described the combination of means forming a grinding throat, said means including a regulating wheel having a helical rib formed thereon, a work rest within the throat, a slide for inserting work pieces into the grinding throat, a cam, and an arm and roller associated with the slide for actuation by the cam for placing a work piece within the path of the helical rib whereby said work piece is axially fed through the grinding throat.

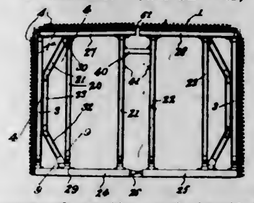
1,948,114

METHOD OF BUILDING AND CONSTRUCTION FOR UNDERGROUND RAILROADS

Guido Janssen, Charlottenburg, Germany

Application May 13, 1931, Serial No. 537,182, and in Germany May 13, 1930

9 Claims. (Cl. 61—42)



4. A framework section substantially as herein described for tunnels and the like, comprising two spaced horizontal beams and one vertical beam, or horizontal beam and the vertical beam being joined end to end while the lower horizontal beam is adjustably engaged with the vertical beam, a vertical column supporting the top and bottom horizontal beams at one of their free ends, and a brace having a vertical column intermediate the vertical beam and the vertical column and parallel therewith and struts extending from the ends thereof with one arm bearing against the side beam for supporting the side and top walls of the tunnel, and screw jacking means on the vertical columns for adjusting the same in the frame and forcing said columns upwardly against the top tunnel wall.

1,948,115

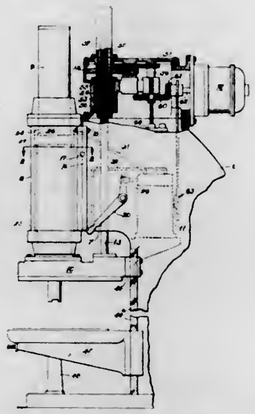
MACHINE TOOL

Albert M. Johnson, Rockford, Ill., assignor to Barnes Drill Company, Rockford, Ill., a corporation of Illinois

Application November 23, 1931

Serial No. 576,639

4 Claims. (Cl. 77—32)



1. A machine tool comprising, in combination with a frame structure, a tool-carrying and driving head comprising a gear box having a rigid bottom plate, a short rigid tool spindle journaled in said bottom plate, hydraulic means for reciprocating said head including an elongated cylinder of large diameter rigidly mounted on said frame structure and an elongated ram of large diameter extending entirely through said cylinder and having guide bearings at opposite ends of the cylinder, means rigidly and removably fastening said gear box to one projecting end of said ram in direct engagement therewith, with the bottom plate spaced a short distance from said end of the ram, whereby said spindle is firmly supported and guided in its movements by said ram and cylinder, an additional guide on the gear box cooperating with said frame structure, and means separate from said ram for driving the tool spindle including a drive shaft mounted in said frame structure parallel to said ram, and a gear train in said box operatively connecting said spindle with said drive shaft.

1,948,116

DYESTUFF AND DYESTUFF INTERMEDIATE

David Clarence Rhys Jones and Robert Fraser Thomson, Grangemouth, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application June 6, 1932, Serial No. 615,761, and in Great Britain June 16, 1931

14 Claims. (Cl. 260—61)

11. As a new product of manufacture, a deep violet compound which is substantially identical with the product obtainable by reacting a mono-benzanthrone with an ortho-halogenbenzoic acid in the presence of an alkaline condensing agent, recovering the alkali-soluble portion of the reaction product, boiling the latter in hot concentrated acetic acid, and recovering the residue, said compound dyeing cotton from the vat in blue shades.

1,948,117

FERTILIZER CONTAINER FOR PLANTS

August Kadow, Toledo, Ohio, assignor to The Green Cross Development Corporation, Toledo, Ohio, a corporation of Ohio

Application June 11, 1932. Serial No. 616,734

9 Claims. (Cl. 47—48)



1. In a container for containing soil fertilizing chemicals, and forcibly insertible in the soil, the container having a porous substantially conical wall, the exterior surface of the wall having ridges extending lengthwise of the container for reenforcing the wall against the pressure of the soil when inserted in the soil.

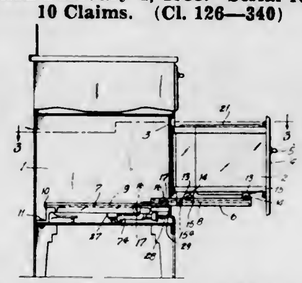
1,948,118

COOKING STOVE

Maurice G. Klemme, Belleville, Ill., assignor to Eagle Foundry Company, Belleville, Ill., a corporation of Illinois

Application February 4, 1933. Serial No. 655,146

10 Claims. (Cl. 126—340)



1. In combination with a cooking stove having a compartment, a drawer mounted in said compartment and having an enclosed chamber provided with openings in its top and bottom, closure members for the respective openings, and a heat generator located in said compartment below the bottom closure member, said bottom closure member being located inside of said chamber and constituting means for supporting and positioning a cooking vessel therein.

1,948,119

METHOD OF AND APPARATUS FOR CONVERTING POLYPHASE CURRENT INTO SINGLE-PHASE CURRENT

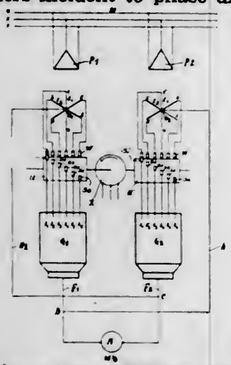
Oskar Löbl, Berlin-Hermsdorf, Germany

Application June 24, 1931, Serial No. 546,658, and in Germany April 18, 1931

3 Claims. (Cl. 172—238)

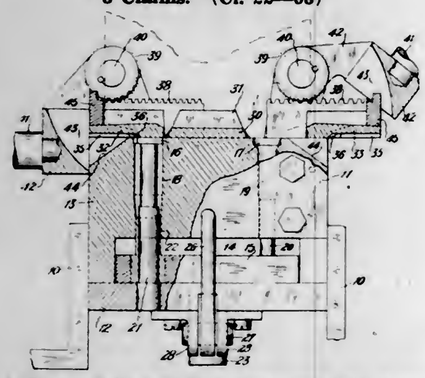
1. In the conversion of polyphase current of a given frequency into single-phase current of a smaller frequency, by means of two multi-

phase systems of rectifiers, each supply one-half of the single-phase current wave; the method step which consists in introducing into the single-phase current circuit counter-balancing electro-motive forces to prevent short circuits in the rectifiers incident to phase displacement.



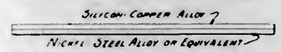
3. In apparatus for converting polyphase current of a given frequency into single-phase current of a smaller frequency, including two rectifiers and a transformer associated with each rectifier having multiple secondary phase windings connected in the anode circuits of the respective rectifiers; a switch interposed in each of said circuits, the corresponding switches in the circuits of the respective rectifiers being operable to closed positions in predetermined sequence to introduce counter-balancing electromotive forces from the secondary windings of the respective transformers into the single-phase current circuit to thereby prevent short circuits in the rectifiers incident to phase displacement.

1,948,120
MACHINE FOR CASTING STRAPS AND POSTS ON SETS OF BATTERY PLATES
Henry W. Lormor, Cleveland Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application September 30, 1931
Serial No. 565,995
8 Claims. (Cl. 22—58)



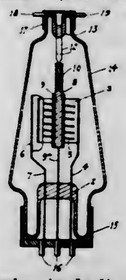
4. In a machine of the class described, a mold having a strap and post cavity therein, a cover for said cavity adapted to slide into and out of operative position, the lower side of said cover having a recess therein adapted to extend over the edge of the cavity when the cover is in its operative position.

1,948,121
BIMETALLIC ELEMENT
Howard D. Matthews, Detroit, Mich., assignor to W. M. Chace Valve Company, Detroit, Mich., a corporation of Michigan
Application March 23, 1932. Serial No. 600,642
9 Claims. (Cl. 297—15)



9. A bimetallic element comprising two metal members of dissimilar thermal characteristics secured together and adapted to act as a unit in response to variations in temperature within the range below that productive of molecular change, both said members having such physical characteristic that molecular change takes place therein and each is relieved of internal stress while in a mechanically unrestrained state through subjection to a temperature higher than that to which it is to be subjected in use, said element subsequent to being formed being subjected to the high temperature whereby the heat treated element is freed of internal strains tending to detrimentally affect operation thereof at lower temperatures.

1,948,122
THERMIONIC TUBE
Frederick S. McCullough, Edgewood, Pa.
Continuation of applications Serial No. 12,477, March 2, 1925, Serial No. 16,711, March 19, 1925, and Serial No. 30,182, May 14, 1925. This application December 29, 1931. Serial No. 583,687
28 Claims. (Cl. 250—27.5)

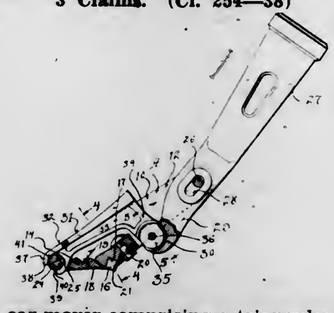


6. A vacuum tube including an envelope, a tubular metallic cathode within said envelope, a grid surrounding said cathode, a plate surrounding said grid, a resistance element in juxta-position to said cathode for heating the same, a base for said envelope, plate grid and cathode connector terminals positioned in said base, a connector cap on the opposite end of said envelope, connector terminals in said cap, conductor leads extending away from said resistance element in one direction and connected with the terminals in said cap, and cathode, plate, and grid leads extending away in the other direction to the connector terminals in said base.

12. In a thermionic device, an elongated cathode, a grid in proximity to only one end thereof, and heater means in proximity to the other end only thereof.

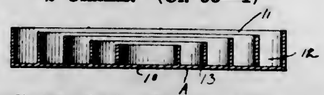
20. A thermionic tube having an anode, a cathode, a heating wire terminating at one end of said cathode for conductively heating the cathode, and an intervening grid of graduated effective area arranged to exert a graduated control along the cathode corresponding to the natural gradient in the electron current flow along the cathode due to the gradient temperatures along the same.

1,948,123
CAR MOVER
Fred J. Miller, Appleton, Wis.
Application June 4, 1932. Serial No. 615,317
3 Claims. (Cl. 254—38)



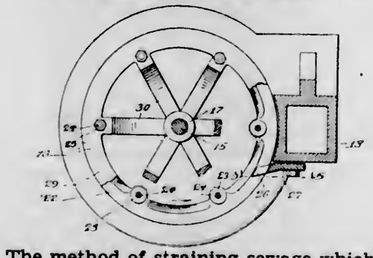
3. A car mover comprising a triangular shaped shoe in side elevation having a rail engaging fulcrum on its lower portion intermediate the ends thereof, a pushing lever rockably connected to the extreme forward end of the shoe and having an arcuate extension overlying the forward end of the shoe and extending entirely across the same, an operating lever rockably connected with the rear end of the shoe, and means operatively connecting the operating lever with the pushing lever.

1,948,124
WATERLESS COOKING UTENSIL
John T. Morgan, Columbus, Ohio
Application July 23, 1931, Serial No. 552,696
Renewed July 15, 1933
2 Claims. (Cl. 53—1)



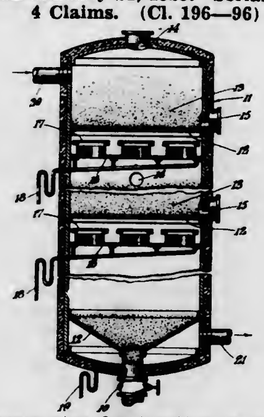
1. A culinary device for use with vessels for cooking foods in their own juices comprising a bottom plate, a series of up-standing flanges arranged in spaced relation and one within the other carried by the bottom plate, the bottom plate and flanges defining water receiving chambers there-between, and ports formed in certain of the flanges to permit the seepage of water from the outermost chambers to the innermost, the outer flange being formed continuous and imperforate.

1,948,125
SCREEN
Carl H. Nordell, Chicago, Ill.
Application April 11, 1932. Serial No. 604,511
5 Claims. (Cl. 210—152)
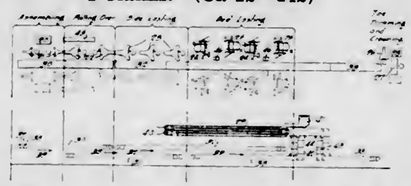


4. The method of straining sewage which consists in straining out solids from liquids in a flowing stream, and comminuting the intercepted solids below the surface of the stream without removing the intercepted solids from the stream, whereby the comminuted solids may pass through the straining means along with the flow of liquid.

1,948,126
REFINING APPARATUS
Philip S. Nisson, Brooklyn, N. Y., assignor to The Gray Processes Corporation, Newark, N. J., a corporation of Delaware
Application January 21, 1929. Serial No. 333,804
4 Claims. (Cl. 196—96)



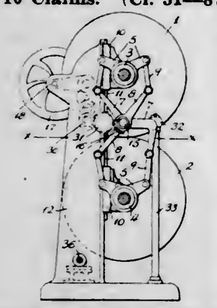
1. An apparatus for treating vapors comprising a tower, a plurality of partitions forming superposed chambers, a fluid permeable support in each chamber for a bed of solid treating material, means for passing vapor successively through said chambers and trapped draw-off pipes having a plurality of drainage inlets depending from the partitions forming the bottoms of said chambers.

1,948,127
ART OF MANUFACTURING SHOES
Harold R. Perry, Swarthmore, Pa., assignor to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts
Application February 24, 1933. Serial No. 658,305
4 Claims. (Cl. 12—142)



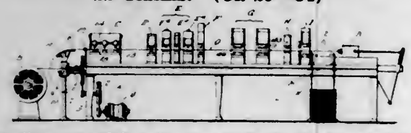
1. The art of manufacturing shoes wherein the shoes are progressively assembled by operators at stations arranged in groups, the groups being arranged in series, certain operations only being performed upon the shoes in each group, which comprises transporting the shoes from all the stations of one group to any station in a second group in a fixed path by means of a conveyor which is common to all the stations of both groups and which spans only said two groups and insures the receipt of shoes only from the first group and limits the advance of the shoes to the second group, and transporting the shoes from all the stations of the second group to any station in a third group in a fixed path by means of a separate conveyor which is common to all the stations of both the second and third groups.

1,948,128
GRINDING AND POLISHING DEVICE
Erich Poeggel, Remscheid, Germany
Application July 23, 1931, Serial No. 552,703, and in Austria November 22, 1930
10 Claims. (Cl. 51—87)



8. In an apparatus for grinding and polishing saw blades and similar articles, a pair of grinding and polishing discs, separate means supporting each of said discs, a pair of two-armed levers, a plurality of links, each link connecting a separate end of one of said levers with one of said supporting means, means supporting said levers intermediate their ends and adapted to oscillate the same simultaneously in opposite directions and thereby adjust the relative positions of said grinding and polishing discs, and a removable feeding device cooperating with said discs and comprising a pair of feed rollers adapted to come in contact with the article to be treated on both sides of the latter.

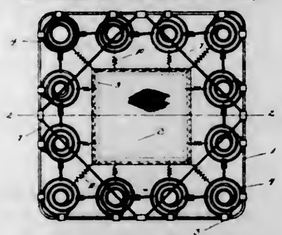
1,948,129
MACHINE FOR MAKING HEDDLES
Ralph Ragan, Atlanta, Ga., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 29, 1931. Serial No. 547,773
22 Claims. (Cl. 29—34)



3. In a machine for manufacturing metal heddles, a plunge eye mechanism comprising a die holder having a pair of laterally separable dies therein upon which the warp eye of a heddle being manufactured is adapted to be placed, a stripper plate over-lying said laterally separable dies and having a slot through which the heddle is adapted to extend, and a plunge of tapered formation and in horizontal section of contour substantially similar to interior contour to be given to the warp eye, said plunge adapted to be extended through an opening in the stripper plate into the warp eye to spread the walls of the latter, and into engagement with said dies for separating the latter as the walls of the warp eye are separated, whereby the walls of the eye will be supported from beneath as they are separated by the plunge.

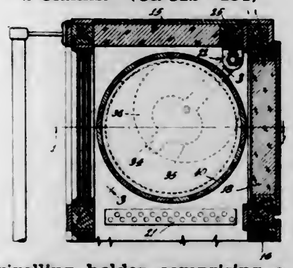
12. In a machine for manufacturing heddles from a metal wire in a continuous process, the combination with metering mechanism adapted to draw completed heddles from the machine, of a take-out mechanism comprising a cross head adapted to reciprocate transversely to the line of travel of the heddles as they are drawn by the metering mechanism, a slide mounted on the cross head for vertical movement and provided with means adapted to raise the slide to engage said pins in the rod eyes of a heddle when the cross head reaches the inner end of its path of movement and to lower the slide when the cross head reaches the outer end of its path of movement, transfer rods with which said pins are adapted to align when the cross head reaches the outer end of its path of movement, and which are adapted to engage the rod eyes of a heddle when the slide is lowered, and supporting pins carried by the cross head and adapted to receive the heddle when the slide is lowered, and to move from beneath the heddle as the cross head begins its inner movement, to thereby allow the heddle to move downwardly upon said transfer rods.

1,948,130
SPRING STRUCTURE
Clair S. Reed, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a corporation of Delaware
Application September 6, 1932. Serial No. 631,874
3 Claims. (Cl. 155—179)



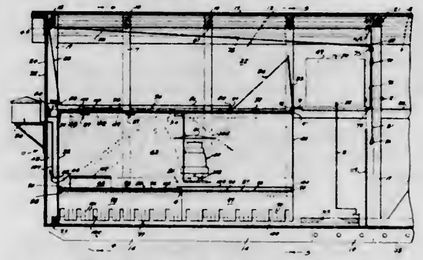
1. In a spring structure, the combination with an upper border frame of wire having angularly disposed sides, of marginal springs clipped to and spaced along said sides, a central supporting surface transversely disposed relative to the longitudinal axes of said springs, means connecting the marginal edges of said surface with said springs spaced along the sides of said upper frame whereby said surface is suspended in substantially the plane of said upper frame, said connecting means uniformly distributing a load supported by said surface to said marginal springs spaced along said sides.

1,948,131
SWINGING HOLDER
Herman Reichardt, Hollywood, Calif.
Application April 10, 1933. Serial No. 665,367
2 Claims. (Cl. 312—184)



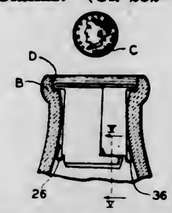
1. A swivelling holder comprising a bracket, a first pivot secured thereto, a supporting arm having a hub section mounted on the pivot in the bracket and having an outer horizontal extension positioned in a horizontal plane above the hub, a base mounted on the said extension, a second pivot through the extension and the base, a circular carrier plate eccentrically pivoted on the second pivot, said carrier plate being rotatable on its pivot whereby on rotation of the arm in an arc a portion of the carrier plate may pass over the top of the first pivot.

1,948,132
BROODER
Roland Curt Ricketts, Sunnymead, Calif., assignor of one-third to Bruce Alfred Ricketts, Sunnymead, Calif.
Application December 9, 1931. Serial No. 579,861
15 Claims. (Cl. 119—32)



1. A brooder having a floor, a canopy with a front and rear section thereover, two sides and an end wall extending between the canopy and the floor and having ventilating openings therein, a heat retainer at the end opposite the end wall, a hover formed of depending cloth fabric suspended above the floor, and a heating unit suspended above the hover, the suspension of the hover permitting circulation of heated air from the top, the front section of the canopy being slidable over the rear section to afford ready access to the hover.

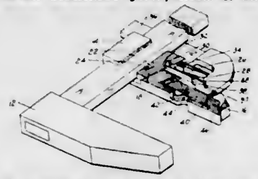
1,948,133
SELF-LOCKING COIN LID FOR BOTTLES
John A. Ringenberg, Tulsa, Okla., assignor to Tom G. Boman, Grand Rapids, Mich.
Application March 18, 1930. Serial No. 436,704
5 Claims. (Cl. 232—4)



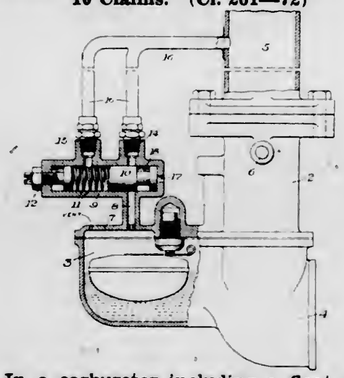
1. A milk bottle device comprising, a disc, having a slot therein, adapted to fit into the rim of a milk bottle, juxtaposed depending portions movably atached to the disc so as to face each other, and means to lock the portions in spaced relationship.

1,948,134
CLAMP
George W. Rose, Oak Park, and Joseph L. O'Brien, Elmwood Park, Ill.
Application February 18, 1932. Serial No. 593,714
12 Claims. (Cl. 144—303)

1. A clamp including: a substantially smooth surfaced slide bar, a first jaw carried thereby, a second jaw slidably mounted thereon, means initially effective independently of clamping action to anchor said sliding jaw at any position on said slide bar, a pressure jaw movable with respect to said slidable jaw, and a lever for operating said pressure jaw and for releasing said anchoring means.

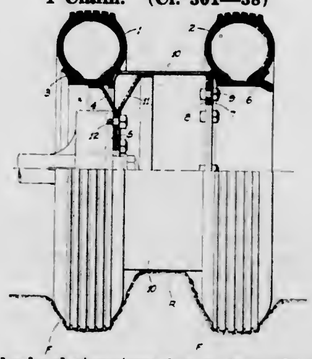


1,948,135
CARBURETOR
Charles C. Sands, Cleveland, Ohio, assignor to Zenith-Detroit Corporation, Detroit, Mich., a corporation of Michigan
Application August 25, 1931. Serial No. 559,222
10 Claims. (Cl. 261—72)



1. In a carburetor including a float chamber vented to the atmosphere, a slide valve having a transverse opening for controlling the pressure condition within the float chamber, and a separate pressure responsive connection for sliding said valve.

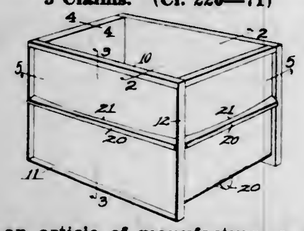
1,948,136
DUAL TIRE WHEEL
Gordon F. Scheckler, Stockton, Calif., assignor of one-half to Roscoe C. Zuckerman, Stockton, Calif.
Application December 30, 1930
Serial No. 505,505
1 Claim. (Cl. 301—38)



A dual wheel structure for motor vehicles comprising laterally separated inner and outer tire-

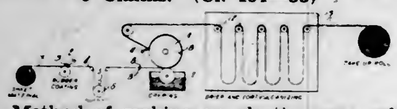
rims, a drum extending between the rims, cooperating flanges about the adjacent ends of the drum and outer rim, means detachably connecting said flanges, a flange on the inner end of the drum forming the outer tire engaging flange of the inner rim, other cooperating flanges supported from the drum and inner rim, and means detachably connecting said last named flanges together.

1,948,137
REENFORCED TANK
Warren J. Simonds, Orange, Mass., assignor to Rodney Hunt Machine Company, Orange, Mass., a corporation of Massachusetts
Application October 26, 1932. Serial No. 639,664
5 Claims. (Cl. 220—71)



1. As an article of manufacture, a container having substantially rectangular side walls, said side walls being convexed outwardly from a flat plane at a point between the top and bottom, to the shape and condition which they would assume if under a state of stress from the inside equal to that which would be imposed on said walls by the pressure of the normal contents, the top and bottom extreme edges being substantially in original vertical alignment, and horizontal ribs respectively secured to the outside surface of each side wall substantially throughout its length, and located a material distance from the top and bottom of the respective wall, to hold the wall in its convex shape.

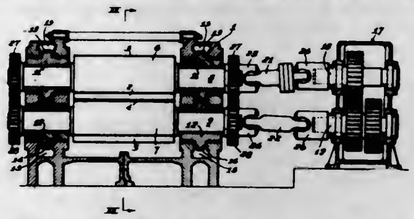
1,948,138
METHOD OF CREPING RUBBERIZED MATERIAL
Jay J. Sindler, Framingham, Mass., assignor to Hodgman Rubber Company, Framingham, Mass., a corporation of Massachusetts
Application May 20, 1930. Serial No. 453,995
9 Claims. (Cl. 154—33)



1. Method of making an elastic crepe, which comprises as steps coating a soft flexible sheet material with vulcanizable rubber composition, rendering the sheet temporarily adherent and creping the same.

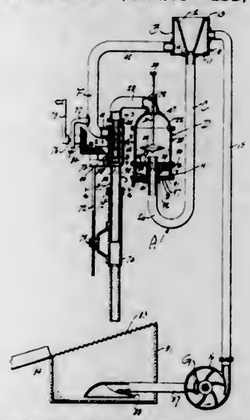
1,948,139
ROTARY FLYING SHEAR
John A. Smitmans, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 17, 1931. Serial No. 557,609
9 Claims. (Cl. 164—68)

1. A flying shear comprising a supporting frame, a pair of opposed blade carriers equipped with cutting blades mounted on shafts rotatably supported in said frame, movable bearings arranged in said frame to engage the ends of said shafts, and means operated in synchronism with said carriers for simultaneously moving all of said bearings in a manner to separate both of said



shafts or bring them together to cause said blades to miss or make cuts at preselected intervals as the shafts are rotated.

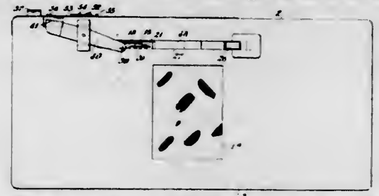
1,948,140
SIPHON GRAVITY SEPARATOR
Harrison A. Strohl, Nesquehoning, Pa.
Application June 1, 1931. Serial No. 541,430
9 Claims. (Cl. 209—155)



1. In apparatus for cleaning coal and other minerals the combination of a cleansing chamber, means for forcing upwardly into the lower part of said chamber the impure mineral and a cleansing fluid in mixture, combined means for baffling the upward flow entrance of the said impure mineral and cleansing fluid to the cleansing chamber for deflecting by gravity the impurities from the valuable constituent of the mineral and means for vertically moving the baffle means for determining the depth of settled deflected impurities within said chamber, and means for withdrawing from the upper portion of the chamber the cleansing fluid and lighter weight constituent of the mineral.

1,948,141
CAMERA BACK AND SHUTTER
Charles John Stokes, London, England, assignor of one-half to Arthur Bennett, London, England
Application July 12, 1933, Serial No. 680,103, and in Great Britain June 22, 1932
10 Claims. (Cl. 95—49)

1. A back for a camera comprising a carriage slidably mounted in a carrier, provision on said carriage for holding a focussing screen and a plate holder in side-by-side relation so that said focussing screen and plate holder can be brought into register with an exposure opening by sliding the carriage, an exposure shutter, and coacting means on the said carriage and carrier for



rewinding or resetting said shutter by the sliding motion of the carriage.

1,948,142
BLANK-FEEDING MACHINE
George W. Swift, Jr., Bordentown, N. J., assignor to George W. Swift, Jr., Inc., Bordentown N. J., a corporation of New Jersey
Application June 13, 1933. Serial No. 675,534
14 Claims. (Cl. 271—45)



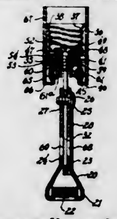
1. In mechanism of the character described, the combination of a movable carriage, an endless conveyor mounted thereon and provided with means arranged at spaced intervals for engaging objects to be fed, spaced drive shafts for said endless conveyor, feed rolls journalled in said carriage, said feed rolls being provided with power-transmitting connections movable by said carriage into and out of position to be driven by a machine to which said objects are delivered, and adjustable power-transmitting connections between said feed rolls and one of said drive shafts whereby the spaced interval means may be located with respect to said machine while the carriage is removed therefrom.

1,948,143
MANUFACTURE OF CHROMATES
Omar F. Tarr, Stoneleigh, Md., assignor to Mutual Chemical Company of America, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 30, 1932
Serial No. 602,105
13 Claims. (Cl. 23—56)

1. A method of roasting chrome ore while preventing fusion of the charge and the formation of fused balls or lumps which comprises roasting with the chrome ore an alkali base and basic refractory material including a considerable amount of alkaline earth chromate, forming alkali chromate from said alkaline earth chromate at a low temperature, and then raising the temperature of the charge to convert compounds of alkali metal with alumina and silica to alkaline earth compounds and using sufficient refractory material in the charge to maintain the whole mass in a porous condition while roasting at temperatures over about 1000° C.

13. The method of roasting chrome ore which comprises roasting a mixture comprising 100 parts of chrome ore, about 50 parts of basic refractory material, about 50 to 70% of the amount of alkali base theoretically required to combine with the chromium present in the ore, and about 90 parts of the leached residue from the previous roasting of a similar charge.

1,948,144
ELECTRIC CANDLE SOCKET
William C. Tregoning, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 16, 1929. Serial No. 399,967
7 Claims. (Cl. 173—358)



1. In an electric candle socket assembly, in combination, a screw shell contact having a diametric slot in the bottom wall thereof, said slot having an enlargement intermediate the ends thereof, a separable terminal member therefor, said member having a horizontal bifurcated portion of substantially rectangular contour, the diagonally opposed corners of which are spaced a distance substantially equal to the internal diameter of said screw shell, said terminal member having a depending neck portion engageable with the edges of said slot to hold said parts against relative rotary movement, a binding screw carried by said depending portion, and an end portion extending outwardly at substantially right angles to said depending portion, for the purpose set forth.

1,948,145
ART OF ELECTROPLATING
George L. Wallace, Leyden, Mass., assignor to The Fiberloid Corporation, Indian Orchard, Mass., a corporation of Massachusetts
No Drawing. Application September 18, 1930, Serial No. 482,907. Renewed December 27, 1933
3 Claims. (Cl. 204—2)

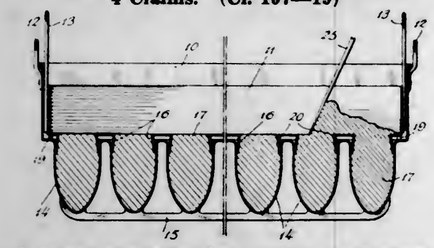
1. The process of electro-depositing an alloy of nickel and chromium on a metal object which consists in, immersing a cathode and an anode of chromium and nickel alloy in a bath containing sulphate of nickel, chromium carbonate and boric acid, the sulphate of nickel being from 32 to 96 ounces and the chromic carbonate being from 16 to 32 ounces per gallon of water.

1,948,146
MOLD
John D. Warren, New York, N. Y.
Application March 4, 1932. Serial No. 596,698
9 Claims. (Cl. 107—19)



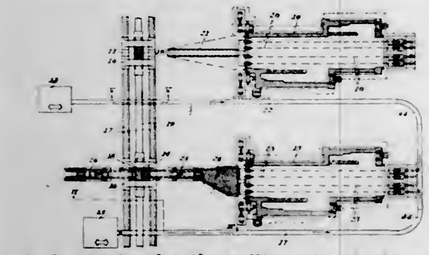
3. In combination, mold sections coacting to form a mold cavity having an open end, a base constituting a closure for said open end, a detent carried by one of said sections, a spring member carried by said base, and a roller supported on said spring member and engageable with said detent for a rolling movement thereover when said base is moved to open and closed positions.

1,948,147
CONFECTION MOLD
John D. Warren, New York, N. Y.
Application March 7, 1932. Serial No. 597,182
4 Claims. (Cl. 107—19)



4. In an apparatus for molding confections or the like, separable tray-like mold members nested one within the other with the bottoms of the members in spaced relation, and a mold section extending from the bottom of each member and cooperating with the section on the other member to mold a complete article, one of said sections extending into the other and combining therewith and with the bottoms of said mold members to form an air space which partially surrounds a portion of the article being molded.

1,948,148
APPARATUS FOR ROLLING
Raymond J. Wean and Archibald D. Evans, Warren, Ohio, assignors to The Wean Engineering Company, Incorporated, Warren, Ohio, a corporation of Ohio
Application April 25, 1932. Serial No. 607,250
9 Claims. (Cl. 29—17)



1. Apparatus for the rolling of flat, sheet-like material comprising a mill having housings and reducing rolls, a horizontally extending drive spindle connected to a roll, a heating furnace on one side of the mill and adapted for the heating of material rolled by the mill preparatory to further rolling thereof, and a conveyor leading from a point on the side of the mill opposite the furnace, to such furnace, the conveyor having material supporting and conveying means extending beneath the spindle and adapted to convey the material thereunder, the conveyor being positioned laterally of the mill.

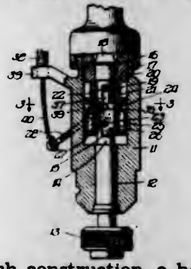
8. Apparatus for the rolling of flat, sheet-like material comprising a mill, heating means for supplying heat to material which is to be rolled in such mill, which heating means includes a plurality of substantially parallel independent conveyors for carrying material through the heating zone, and a run-out conveyor extending between the heating means and the mill, the run-out conveyor having skew rolls therein for receiving the material from the said conveyors and move it sidewise and forwardly toward the mill, and a side guide for engaging material as it is moved sidewise on the skew rolls.

1,948,149
END SECTION FOR CONVECTORS
Robert S. Wentworth, Johnstown, Pa., assignor to National Radiator Corporation, Johnstown, Pa., a corporation of Delaware
Application March 26, 1932. Serial No. 601,325
11 Claims. (Cl. 257—151)



4. An end member for use with convectors comprising an intermediate upright portion having a hub portion at the top thereof and a hub portion at the bottom thereof, the center line between the two hub portions being at an angle to a vertical plane, each of said hub members having a recess therein, and a connector portion at the top of the end member communicating with the recess in the said upper hub portion, said connector portion being offset from the plane of the intermediate part of the end member whereby it projects over the convector with which the end member is used, said connector portion also being offset to one side of the center of the upper hub member.

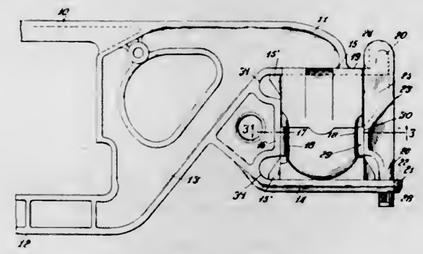
1,948,150
CLUTCH CONSTRUCTION
John B. Whitted, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application May 9, 1932. Serial No. 610,024
4 Claims. (Cl. 192—67)



1. In a clutch construction, a housing, a driving shaft and a driven shaft having ends aligned in the housing, one of said shafts having a recess in its end, a sleeve slidably connecting the shafts, said sleeve having a pin adapted to make a driving engagement with said recess, and a driving connection between said sleeve and the other shaft and having an operating member pivotally supported in the housing.

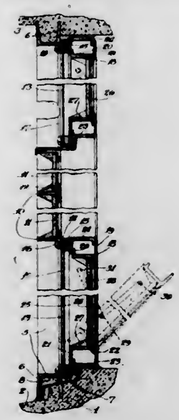
1,948,151
TRUCK FRAME
Paul C. Withrow and Benjamin F. Fry, Denver, Colo.
Application October 3, 1932. Serial No. 635,979
14 Claims. (Cl. 105—221)

1. A truck frame, the journal box receiving ends whereof each comprise top, bottom and a vertically disposed side member adapted to provide flat bearing surfaces arranged to engage with the journal boxes; the free end of the top member having an upwardly disposed portion, and locking means arranged at the outer ends of the top and bottom members adapted to inter-



lock with the upwardly disposed portion of the top member and have non-shifting relation with the bottom member, said means being formed to provide a wide bearing surface for the side of the journal box and being independent of the boxes.

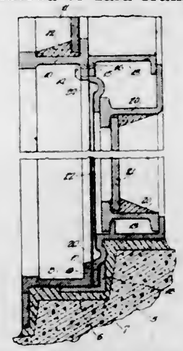
1,948,152
WINDOW
Ralph W. Zimmerman, Chicago, Ill., assignor to The William Bayley Company, Springfield, Ohio, a corporation of Ohio
Application July 23, 1930. Serial No. 469,969
17 Claims. (Cl. 189—64)



1. In a window, a fixed glazed portion, glazed ventilators adjacent the upper and lower margins of said fixed portion, and bars extending across the spaces for said ventilators.

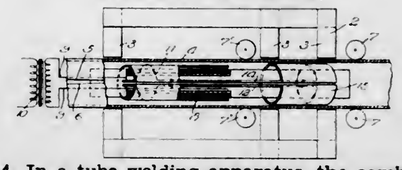
1,948,153
WINDOW
Ralph W. Zimmerman, Winnetka, Ill., assignor to The William Bayley Company, Springfield, Ohio, a corporation of Ohio
Application January 10, 1931. Serial No. 507,789
9 Claims. (Cl. 189—64)

1. In a protective window, a plurality of muntins defining a glazed portion, an unglazed portion, muntins over said unglazed portion to function as bars, a closure for the unglazed portion including a removable frame and a movable ventilator mounted in said frame and a permanently fixed screen soldered to said frame around said



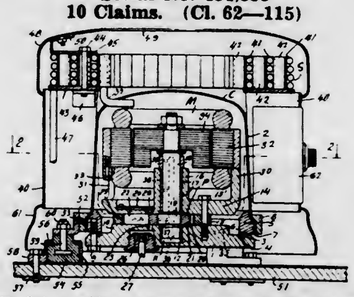
unglazed portion, said screen being located between said ventilator and said muntins.

1,948,154
APPARATUS FOR WELDING
James L. Adams, Jr., Youngstown, Ohio, assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio, a corporation of Ohio
Application November 11, 1930
Serial No. 494,905
20 Claims. (Cl. 219—6)



4. In a tube welding apparatus, the combination with means for advancing a formed tube blank having an axial seam cleft, and means for progressively closing the cleft, of an inducing coil adjacent the point of cleft closure and disposed coaxially of the blank, comprising a plate bent substantially to C-shape with the spaced edges adjacent the seam cleft, means for supplying current to said coil, comprising a transformer spaced therefrom having a secondary winding similar thereto and relatively short direct connections between said coil and secondary winding.

1,948,155
REFRIGERATION MACHINE
Robert L. Alexander and James R. McCallum, Clinton, Iowa, assignors to The Climax Engineering Company, Clinton, Iowa, a corporation of Delaware
Application September 26, 1930
Serial No. 484,538
10 Claims. (Cl. 62—115)



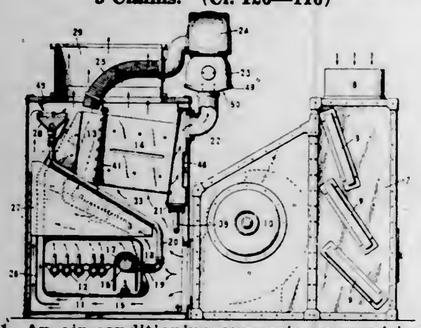
1. Refrigerating apparatus of the character described comprising a compressor, a sealed cas-

ing enclosing said compressor, a plurality of vertically disposed heat radiating fins extending laterally from said casing and a condenser connected to receive compressed refrigerant from said compressor and disposed above said casing and at least partially within a vertical projection of said fins in the path of rising convection air currents induced along said fins by heat from said casing.

1,948,156
AIR CONDITIONING UNIT

Carlyle M. Ashley, South Orange, and Vincent S. Day, Summit, N. J., assignors to Carrier Research Corporation, Newark, N. J., a corporation of New Jersey

Application June 1, 1931. Serial No. 541,278
5 Claims. (Cl. 126—116)

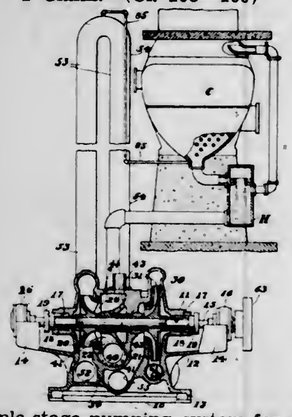


1. An air conditioning apparatus comprising a casing, a first interchanger and a second interchanger in said casing, a firebox for supplying products of combustion to said interchangers in succession, a fan for discharging a volume of air into said casing, and means for diverting a small portion of said air volume in contact with said first interchanger and a larger portion in contact with said second interchanger.

1,948,157
CENTRIFUGAL PUMP

Paul A. Bancel, Montclair, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application September 26, 1928
Serial No. 308,492
1 Claim. (Cl. 103—109)

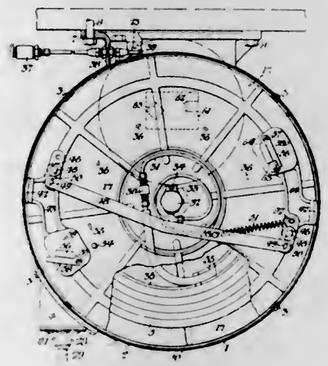


A multiple stage pumping system for evacuating a variable pressure fluid supply including a two stage centrifugal pump adapted to be connected to the hotwell of a condenser and having a pair of impellers within a casing, each impeller operating to receive fluid from a fluid inlet and to discharge the same with increased head through a fluid outlet and means comprising a loop connecting the first stage fluid outlet and the second stage fluid inlet and extending above the pump for maintaining constant fluid potential on the first stage impeller, and means for maintaining substantial equal vacuum pressure in the loop and at the outlet to the condenser.

1,948,158
HOSE REEL

Giles V. Barr, Conshohocken, Pa., assignor to Service Station Equipment Company, Conshohocken, Pa., a corporation of Delaware

Application December 22, 1931
Serial No. 582,513
5 Claims. (Cl. 242—86)



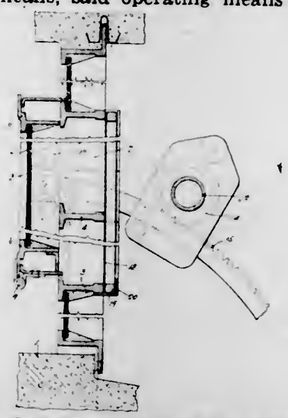
1. The combination with a hose reel; of a hose having one end connected to said reel; a spring for turning said reel in one direction to wind the hose thereon; clutch means for detachably detaining said reel with the hose in a position to which it may be withdrawn; said clutch means being releasable by tension upon the hose; a casing for the reel and its appurtenances; and a brake lever carried by the reel adapted to frictionally engage said casing when the movement of said reel exceeds a predetermined speed; said brake lever carrying a member of the clutch device.

1,948,159
DETENTION WINDOW

Lee Bayley, Springfield, Ohio, and Robert L. Clingerman, Washington, D. C., assignors to The William Bayley Company, Springfield, Ohio, a corporation of Ohio

Application February 25, 1930. Serial No. 431,117
11 Claims. (Cl. 189—64)

1. A window structure, transversely disposed mullion bars dividing the window into a plurality of small spaces, window panes closing a portion of the spaces, a group of spaces being left open to afford a ventilating opening across which the mullion bars extend, closure means for said barred opening and operating means at the outer side of the window for adjusting said closure means, said operating means including

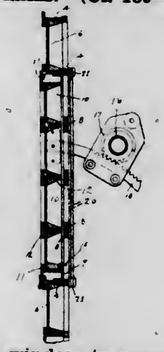


a housing for at least some of the movable parts thereof.

1,948,160
DETENTION WINDOW

Lee Bayley, Springfield, Ohio, assignor to The William Bayley Company, Springfield, Ohio, a corporation of Ohio

Application November 19, 1930
Serial No. 496,709
12 Claims. (Cl. 189—64)



1. A detention window, transverse mullion bars dividing the window into a plurality of spaces, window panes closing certain of the spaces, leaving a group of such spaces vacant to afford a ventilating area, the continuations of the mullion bars extending across the ventilating area being of reduced thickness to accommodate a closure therefor and an adjustable closure normally positioned substantially in the plane of the main window and adjustable relative thereto to open and close the ventilating area, said closure having double contacting surfaces.

1,948,161
PARTIAL OXIDATION PRODUCTS

William P. Bitler, Nyack, N. Y., assignor to C. P. Byrnes, trustee, Sewickley, Pa.

No Drawing. Application July 24, 1929
Serial No. 380,770
1 Claim. (Cl. 260—139)

As a new composition of matter, a liquid fraction of an oily mixture of oxygen derivatives of hydrocarbons containing a material proportion of oxygen derivatives of aliphatic hydrocarbons of different molecular weights having sufficient carbon atoms to be insoluble in water, said fraction being substantially free from organic acids, high boiling resins and metallic compounds and containing a material proportion of different bodies insoluble in water and of the same type but of different molecular weights.

1,948,162
PROCESS OF PREPARING COMPOUNDS OF THE 1 - PHENYL - 2 - AMINOALCOHOLS - 1 SERIES HYDROXYLATED IN THE PHENYL NUCLEUS

Max Bockmühl, Gustav Ehrhart, and Leonhard Stein, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application May 11, 1931, Serial No. 536,660, and in Germany May 31, 1930
9 Claims. (Cl. 260—128.5)

1. The process which consists in causing nitrous acid to act upon a compound of the following general formula

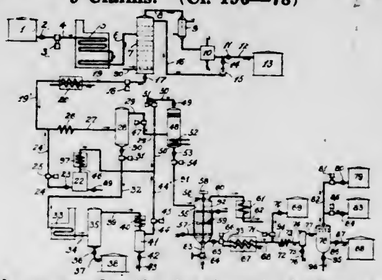
$$R—CO—CH_2—Y$$

wherein R stands for a phenyl nucleus substituted by at least one radical of the group consisting of benzyloxy and acetoxy, and Y for an alkyl group of the lower aliphatic series, and subjecting the isonitroso compound thus obtained to a reduction process.

1,948,163
PROCESS FOR THE TREATMENT OF OILS WITH ALUMINUM CHLORIDE

Ulric B. Bray, Palos Verdes Estates, and Claude E. Swift, Huntington Park, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application May 18, 1931. Serial No. 538,236
9 Claims. (Cl. 196—78)



1. A process for the treatment of oil containing asphalt to produce lubricating oil which comprises commingling said oil with an asphalt precipitating solvent to separate asphalt, removing the asphalt from the oil dissolved in said solvent, removing the solvent from the substantially asphalt free oil, treating the substantially asphalt free oil with aluminum chloride at a temperature below which any substantial cracking takes place to react with the undesired constituents present in the oil and separating the aluminum chloride and reaction products from the treated oil.

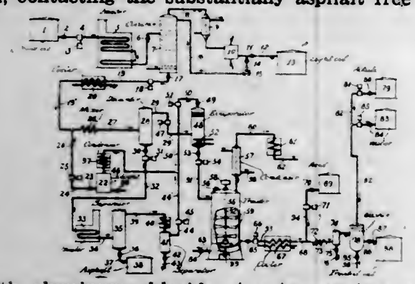
1,948,164
PROCESS FOR PRODUCING LUBRICATING OIL

Ulric B. Bray, Los Angeles, and Claude E. Swift, Glendale, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application February 23, 1932. Serial No. 594,604
10 Claims. (Cl. 196—13)

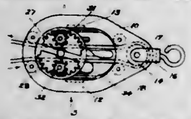
1. A process for the production of lubricating oil from oil containing asphalt which comprises

commingling said oil with a solvent capable of dissolving the oil but substantially no asphalt, separating the solvent and oil from the undissolved asphalt, separating the solvent from the oil, contacting the substantially asphalt free oil



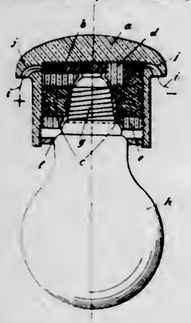
with aluminum chloride at a temperature sufficiently high to convert the unstable hydrocarbons into reaction products and removing the aluminum chloride and reaction products from the treated oil.

1,948,165
RAZOR STROPPER
Oliver C. Brooks, New York, N. Y.
Application October 4, 1932. Serial No. 636,131
16 Claims. (Cl. 51—63)



1. In a razor stropper a strap movable back and forth through a predetermined path, a blade carrier mounted for movement about two axes at right angles to one another and interposed between two substantially parallel portions of the strap and adapted to hold a blade, and strap-operated means for actuating the blade carrier about said two axes so that the opposite sides of the cutting edge of the blade in the blade carrier are presented alternately to the faces of the strap with the edge at oblique angles of alternately opposite sign to the direction of motion of the strap.

1,948,166
HOLDER FOR INCANDESCENT LAMPS
Ottmar Conradty, Nuremberg, Germany
Application November 3, 1927, Serial No. 230,757, and in Germany June 24, 1927
9 Claims. (Cl. 173—358)



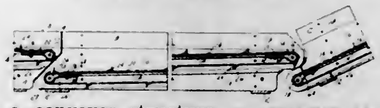
1. A holder for incandescent lamps comprising a socket composed of acid-proof material and adapted to have an incandescent lamp fixed therein, contact members for carrying electric current to the contacts of the lamp, said current conducting members being composed of acid-proof material arranged within said socket, and an acid-proof ring detachably fastened in said socket and adapted to contact a conducting member and hold it in position.

1,948,167
VIBRATING DEVICE
Lionel B. Cornwell, New York, N. Y.
Application December 1, 1932. Serial No. 645,147
4 Claims. (Cl. 128—66)



3. In a device of the character described, the combination of a housing having a hand-engageable upper portion and an extended lower portion, a flexible massage member attached to and carried by said lower portion, rotatably unbalanced fluid motive means within said housing and extending within said hand-engageable housing portion, means for resiliently supporting said motive means for the transmission of vibrations therefrom to said massaging member, and means for directing actuating fluid against said motive means.

1,948,168
SECTIONAL DRAG CONVEYER
Albert E. Edwards, Fort Dodge, Iowa
Application March 21, 1932. Serial No. 600,291
1 Claim. (Cl. 198—92)
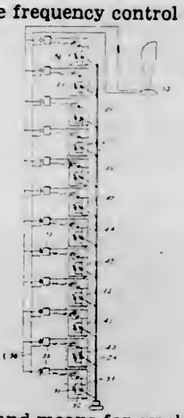


In a conveyer structure, a conveyer section comprising a pair of sides, a partition wall between said sides, a shaft mounted at each end of said conveyer section, one of said shafts being adjustably mounted for movement longitudinally of said conveyer section, sprockets, one on each shaft, a conveyer chain extending along said partition wall from one sprocket to the other one, a tubular guide at one end of said partition wall and surrounding said adjustably mounted shaft and having a mounting flange and means for mounting said flange on said partition wall for slidable movement longitudinally thereof in accordance with the adjustment of said adjustably mounted shaft.

1,948,169
PRINCIPLE OF PRODUCING OSCILLATING ENERGY OF DESIRED CHARACTERISTIC
Ivan I. Eremeeff, Philadelphia, Pa.
Application March 2, 1928. Serial No. 258,466
5 Claims. (Cl. 250—36)

1. In combination, a plurality of oscillators, each having a plurality of frequency control means, a unicontrol means for varying the frequency of the said plurality of oscillators in unison, said unicontrol means actuating all except at

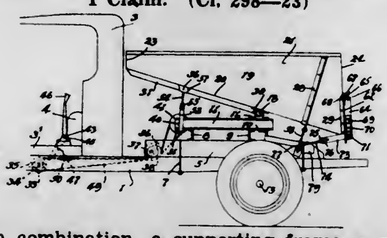
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least one of the frequency control means of each



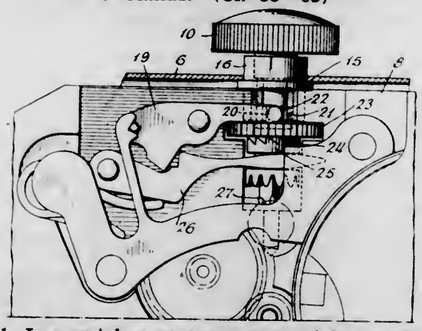
said oscillator, and means for combining the output of said oscillators.

1,948,170
VEHICLE DUMP BODY
Arthur A. Forde, Vista, Manitoba, Canada
Application June 29, 1931. Serial No. 547,598
1 Claim. (Cl. 298—23)



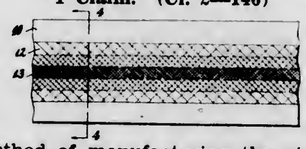
In combination, a supporting frame, a rearwardly dumpable commodity receiving box pivotally carried by the frame, a rear closure gate pivotally carried by the rear end of the box and operating connections between the gate and the frame, said connections being attached to the gate to permit of adjustment towards or away from the pivot point of the gate and being further adjustable in length between the gate and the frame.

1,948,171
WATCH STEM AND CROWN SETTING
Hans Gisiger, Brooklyn, N. Y., assignor to Florence Gisiger, Waltham, Mass.
Application August 3, 1931, Serial No. 554,778, and in Switzerland July 26, 1926
2 Claims. (Cl. 58—63)



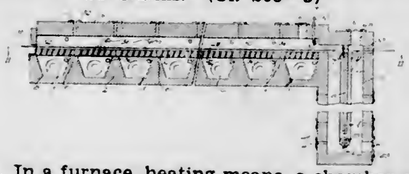
1. In a watch, a case, a movement frame within said case and including plates having abutting portions the inner opposed surfaces of which are bored to form an opening, a winding stem extending into said opening, and a pendant fitted into said opening and forming a bearing for said stem, said pendant having a socket at its outer end into which said stem projects and which extends outwardly through said case, said pendant further having an intermediate annular shoulder projecting therefrom which is interposed between and in engagement with said plates and case.

1,948,172
MANUFACTURE OF FOUR-IN-HAND NECKTIES
Leonard A. Gumport, New York, N. Y.
Application August 24, 1931. Serial No. 558,880
1 Claim. (Cl. 2—146)



A method of manufacturing the pieces of a four-in-hand necktie comprising forming a strip of fabric, weaving upon one side of said strip a relatively narrow reinforcement panel, thickening the central longitudinal line of said panel and decreasing the thickness of the portions of the panel on both sides of the thickened portion so that the surface of the panel slopes from the central line until it meets the face of the strip, cutting the assembled strip and panel generally transversely to form a piece the outline of which conforms to the contour produced by placing the two pieces of a conventional four-in-hand tie pattern end to end in such a manner that the tapered edge of each pointed end is adjacent the other, and cutting this piece on a diagonal line between the opposite edges of the reinforcement panel so that the neck and adjacent portion of the finished tie will be reinforced on the back of the fabric at the neckband, knot, and portion just below the knot with a reinforcement tapering in thickness to its end edges.

1,948,173
HEAT TREATING FURNACE
George J. Hagan, Dormont, Pa.
Application May 8, 1930. Serial No. 450,682
24 Claims. (Cl. 266—3)

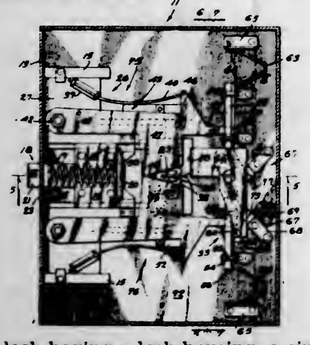


1. In a furnace, heating means, a chamber cooperating therewith, and a hearth intermediate said heating means and chamber, said hearth being provided with a plurality of relatively small openings for the passage therethrough of the gaseous heating medium, certain of said openings being angularly disposed toward the longitudinal axis and toward one another whereby the emerging gases serve to assist in guiding and supporting the material passing through the chamber.

1,948,174
DUAL ADJUSTABLE LOCK
Daniel Haviland, Sawtelle, Calif.
Application June 15, 1932. Serial No. 617,383
32 Claims. (Cl. 70—70)

1. In a lock, a barrier and a tumbler, the tumbler having a longitudinal movement in refer-

ence to the barrier and also a transverse movement, the barrier having means to permit and to prevent longitudinal movement of the tumbler in one direction, the tumbler being mounted for movement in a transverse direction by a key and said tumbler having means to move the barrier into a position to permit longitudinal movement of the tumbler by a similar key for unlocking the lock, and means to retain the barrier in the adjusted position.



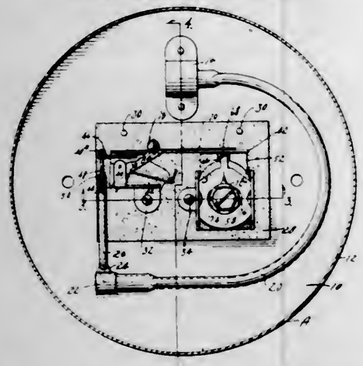
30. A lock having a lock housing, a single bolt, a single keyhole in the housing for inserting of two different keys, and a separate withdrawal keyhole for each key, a pair of tumbler and barrier mechanisms each being adapted to be operated by a different key inserted through the single keyhole slot and each mechanism having adjusting means requiring a different key, one key being adapted to operate one mechanism to project the bolt or to retract the bolt, and another key being adapted to operate the other mechanism to project the bolt or to retract the bolt.

1,948,175

PRESSURE TUBE AND HAND SWITCH

Malcolm E. Henning, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a corporation of Iowa

Application June 15, 1931. Serial No. 544,558
2 Claims. (Cl. 200—81)



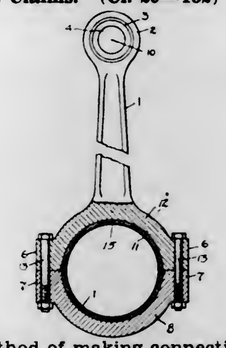
1. In a controller structure, a controller arm movable to two opposite positions, an actuating element normally engaging said controller arm, a magnet constraining said controller arm toward one of said positions and toward engagement with said actuating element, said controller arm being manually operable to either of its opposite positions when said actuating element is in non-normal position spaced from said controller arm, means to maintain it in position spaced from said magnet comprising a spring constraining the controller arm toward position spaced from the magnet and of sufficient strength to maintain it in such position but insufficient to overcome the magnetic pull when the controller arm is in position adjacent said magnet and means to render said spring inoperative to affect the controller arm when the controller structure functions normally.

1,948,176

METHOD OF MAKING CONNECTING RODS

Benjamin F. Hopkins and John V. O. Palm, Cleveland Heights, Ohio, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio

Application January 7, 1932. Serial No. 585,342
2 Claims. (Cl. 29—152)



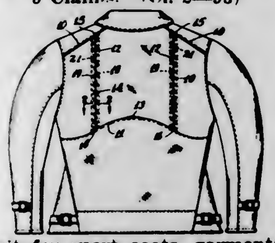
1. In a method of making connecting rods and bearings therefor, the steps which consist in forming a cylindrical hole in the large end of a connecting rod with its center accurately spaced a predetermined distance from the center of the hole in the upper end of said rod, making two semi-cylindrical flexible bearings, finishing said rod and bearings by assembling in such large end of said rod said two semi-cylindrical bearings of such dimensions that the distance between the center of the hole in the upper end of said rod and the center of the hole formed in the large end by said bearings is maintained, and compressing and flexing said bearings into substantially complete engagement against said rod and cap without disturbing the spacing between centers of said holes.

1,948,177

PLAIT FOR SPORT COATS AND THE LIKE

Reuben Karasic, Asbury Park, N. J.

Application May 5, 1933. Serial No. 669,482
9 Claims. (Cl. 2—93)



1. A plait for sport coats, garments and the like, comprising adjacent opposed bent portions of sheet material connected at the ends forming the mouth of the plait, each bent portion comprising a front layer connected by the bend with a rear layer, a line of stitches through the front and rear layers of each bent portion near the bends thereof dividing off passages, a layer of material connecting the outer ends of the rear layers of the bent portions, and a resilient frame comprising parallel closely spaced flexible members, extending through said passages, and elements rigidly connecting the ends of said flexible members and secured on said sheet material at the ends of said plaits.

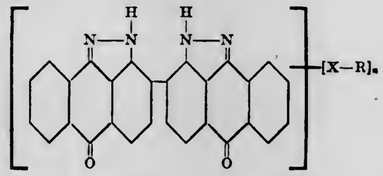
1,948,178

VAT DYESTUFFS OF THE DIPYRAZOLANTHRONYL SERIES

Max Albert Kunz, Mannheim, and Karl Koeberle, Ludwigshafen - on - the - Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application August 1, 1930, Serial No. 472,486, and in Germany August 12, 1929
2 Claims. (Cl. 260—45)

1. The dipyrazolanthronyl derivatives corresponding to the formula:



in which X stands for —N.H—, in which case R may be hydrogen or an aromatic radicle, or X stands for —O— or —S—, in which case R is an aromatic radicle, *n* stands for a number between 1 and 4, and in which all or part of the hydrogen atoms attached to nitrogen atoms may be replaced by alkyl radicles.

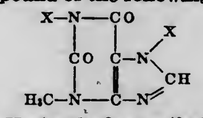
1,948,179

MERCURY CONTAINING PURINE COMPOUNDS AND PROCESS OF PREPARING THEM

Carl Ludwig Lautenschläger, Max Bockmühl, and Walther Persch, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application November 12, 1930, Serial No. 495,278, and in Germany March 21, 1929
16 Claims. (Cl. 260—13)

1. The process which consists in causing a mercury salt to act upon the methyl-alcoholic solution of a compound of the following formula:



wherein one X stands for methyl, the other X stands for an alkyl of the allyl series.

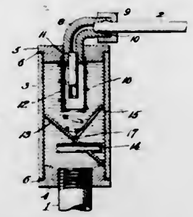
1,948,180

HEAVY FLUID ELIMINATOR

John D. MacLachlan, Kansas City, Mo., assignor to Mac Ad Company, Kansas City, Mo., a corporation of Missouri

Application January 4, 1932. Serial No. 584,747
2 Claims. (Cl. 183—99)

1. A heavy fluid eliminator comprising a casing having a bottom intake opening to admit the fluid under pressure and a small outlet passage for discharging the fluid, and a partition disposed within and dividing the casing into two chambers, a cross-tube projecting through said partition, and an arm projecting from the partition above the discharge end of said tube; the said partition and said arm marginally contacting



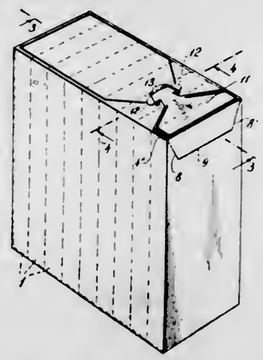
with the inner surface of the casing at points closely spaced apart to provide a large number of fine passages, the points of contact dividing all of the fluid passing through the casing into fine jets between and in contact with the edge of the partition and the wall of the casing and between said wall and the edge of said arm.

1,948,181

PACKAGE

William Medoff, New York, N. Y., assignor to National Cellulose Corporation, New York, N. Y., a corporation of New York

Application September 17, 1931
Serial No. 563,332
20 Claims. (Cl. 206—56)



1. A package, comprising a plurality of articles, an envelope therefor, means in said envelope for ejecting an article without exposing any of the other articles, and means for guiding the article while being ejected and after the inner end is out of the envelope.

1,948,182

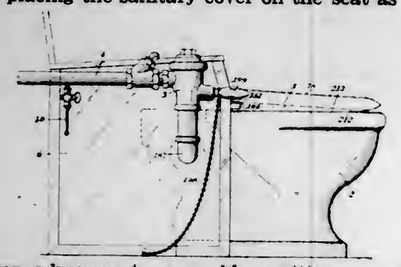
TOILET APPARATUS

John Moore, Latrobe, Pa.

Application January 29, 1931. Serial No. 512,059
37 Claims. (Cl. 4—242)

1. Toilet apparatus comprising a toilet bowl, a seat normally in non-usuable position relative to the bowl, means for moving the seat substantially horizontally to a usable position over the

bowl, a sanitary cover for the seat and means for placing the sanitary cover on the seat as the

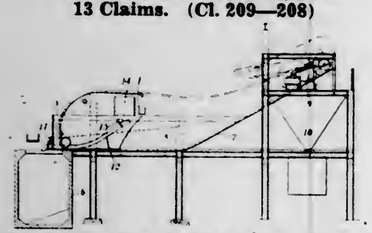


latter advances to a usable position over the bowl.

1,948,183
PRODUCTION OF ANTHRAQUINONE DERIVATIVES
Paul Nawiasky and Artur Krause, Ludwigshafen - on - the - Rhine, and Berthold Stein, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application April 24, 1931, Serial No. 532,696, and in Germany May 3, 1930
8 Claims. (Cl. 260—60)

8. 1-amino-2-alkoxyanthraquinones containing in the 4-position an arylsulphamido radicle of the benzene series.

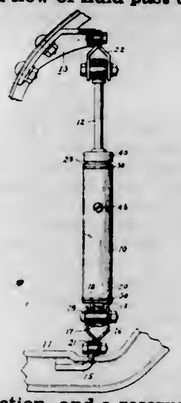
1,948,184
METHOD OF AND APPARATUS FOR TREATING COAL SLURRY
Bertram Norton, Sandford Hall, Claverley, England
Application July 21, 1931, Serial No. 552,276, and in Great Britain July 23, 1930
13 Claims. (Cl. 209—208)



1. In the treatment of water in coal washing systems, the steps which comprise passing the returned and overflow water from the washed coal to a main settling tank, taking slurry water from the said settling tank, treating the slurry water for the recovery of fine coal slurry contained there, passing the water from which the fine coal slurry has been removed to at least one secondary settling tank, allowing the water to remain stationary therein for sufficient time for settling of fine particles to take place, removing the fine particles deposited in said secondary settling tank and returning the water from said secondary settling tank to said main settling tank.

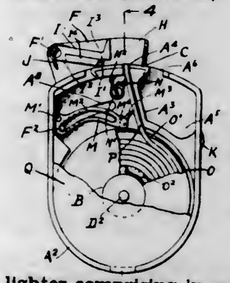
1,948,135
SHOCK ABSORBER
Joseph E. Padgett, Toledo, Ohio
Application November 16, 1931, Serial No. 575,267
Renewed October 2, 1933
10 Claims. (Cl. 188—88)

1. In a device of the character described the combination of a cylinder, a plunger in said cylinder dividing the latter into two chambers, said cylinder and plunger being relatively movable, fluid in said chamber, said plunger being provided with a passage for a restricted flow of fluid past the plunger in one direction and with means for reducing the effective area of said passage for a more restricted flow of fluid past the plunger in



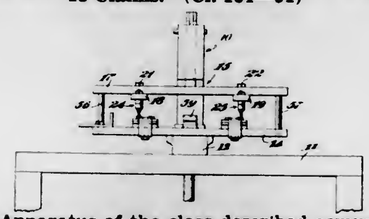
the opposite direction, and a reservoir having restricted communication with one only of said chambers and being otherwise substantially fluid-tight, said restricted communication being effective for a transfer of fluid between the reservoir and such one chamber during relative movement between the cylinder and plunger in either direction.

1,948,186
CIGAR LIGHTER
David Pepper, Philadelphia, Pa.
Application June 4, 1932. Serial No. 615,299
8 Claims. (Cl. 67—7)



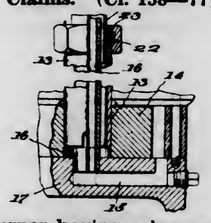
1. A cigar lighter comprising in combination a lidded casing adapted to contain a coiled match, said casing having an opening in its edge adapted to give passage to the end of the match and a guiding wall over which the end of the match passes on its way to the opening, a swinging lever pivoted on the side wall of the casing to swing in a plane parallel to said side wall, said swinging lever supporting a scratch pad holder in such position that as the lever is swung from one side to the other, the scratch pad holder will pass over the opening through which the match end emerges from the casing, a movable match engaging device located to engage with the portion of the match resting against the wall of the casing over which it passes on its way to the opening, said match engaging device being inter-engaged with the swinging lever in such manner as to feed the match through the opening in the casing in timed relation with the movement of the lever which carries the scratch pad holder over the said opening.

1,948,187
APPLYING FASTENER
Sumner S. Randell, Quincy, Mass.
Application March 6, 1933. Serial No. 659,686
13 Claims. (Cl. 164—91)



1. Apparatus of the class described comprising a bed for supporting portions of an article to be operated upon, a support member spaced above the bed and having a free end receivable within the closure slit of the article, the latter member being adapted to support other portions of the article, a plurality of punch elements disposed above the bed and the support member and spaced relative to each other in positions corresponding to the desired spacing of fastener elements from each other, means for securing the punch elements in a plurality of predetermined positions relative to each other, and guide means adjacent the free end of the support member for determining the position of the article disposed on the support member relative to the punch elements.

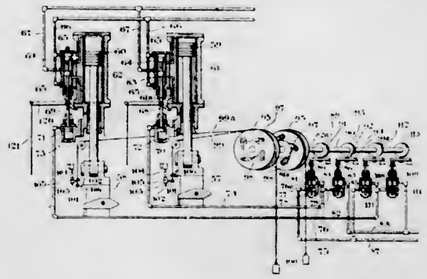
1,948,188
OIL BURNER
David B. Roberts, Hartford, Conn.
Application February 21, 1930. Serial No. 430,428
3 Claims. (Cl. 158—77)



2. An oil burner having a burner tip with an annular lip, means to issue oil and air outward to and past such lip comprising a pump with a rotating element, a stationary support for said tip, and means to impart a whirling motion to the stream flowing outward across the lip, comprising a revolving member contiguous to said lip and having a driving connection with said pump element.

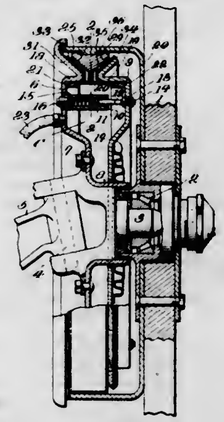
1,948,189
WOOD GRINDING MACHINE
Andrew N. Russell and John D. Robb, Lachine, Quebec, Canada
Application February 27, 1930. Serial No. 431,908
8 Claims. (Cl. 83—75)

3. A magazine pulp wood grinder of the continuous feed type comprising a magazine structure having opposed series of vertical guideways arranged at opposite sides of the magazine, a reciprocable feed member in each guideway comprising a pair of side plates, a plurality of vertically spaced pawls pivotally mounted between their ends on pivots extending between and carried by the side plates, and cross bars connecting the side plates, said pawls being normally balanced on the pivots so that the heel portions rest on the cross bars while the toe portions project beyond the side plates into the wood receiving space of the magazine, a piston rod connected to each feed member at the upper ends of the side plates, a piston connected to



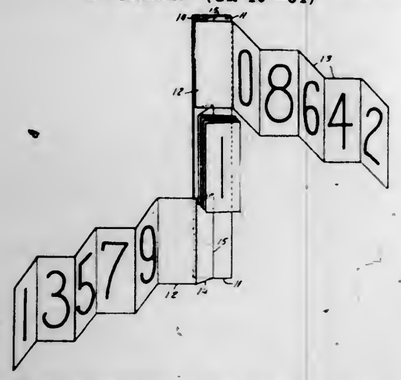
each piston rod, a cylinder housing each piston, a valve mechanism for controlling the flow of fluid to and from the opposite end of each cylinder, and means for timing the operation of said valve mechanism, said means being connected with and actuated by said feed members.

1,948,190
FLUID PRESSURE CONTROLLED BRAKE MECHANISM
Frederick L. Shelor, Sandston, Va., assignor, by direct and mesne assignments, to Innovation Brakes Incorporated, Richmond, Va., a corporation of Virginia
Application November 2, 1931. Serial No. 572,705
8 Claims. (Cl. 188—152)



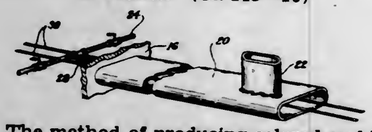
4. In a braking mechanism, the combination of a rotatable member, a braking member secured to said rotatable member for rotation therewith and axial movement thereon, a non-rotating stationary disk, a non-rotating disk associated therewith and movable relative thereto, said disks having braking surfaces adapted to engage the braking member, and means connecting said disks and forming a closed chamber therebetween adapted to be placed under a pressure differing from that of atmospheric pressure for causing an engagement between the braking surface on the non-rotating disk and the braking member.

1,948,191
PRICE INDICATOR
William E. Shoemaker, Freeport, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application October 14, 1933. Serial No. 693,611
12 Claims. (Cl. 40—64)



1. In an apparatus of the class described, the combination of a base card, and a plurality of indicating strips attached to said base card, each of said indicating strips being folded transversely at a plurality of points spaced apart at distances substantially less than the width of the indicating strips, to form a plurality of rectangular panels of substantially equal width bearing characters on each side thereof, a joining panel of half the width of the other panels adjacent the attached end, each of said indicating strips being flexibly attached to the base card along a line extending substantially centrally thereof, with the attached end of the indicating strips disposed in a vertical position, whereby the longitudinally folded edges of the rectangular panels of said indicating strips are held in a vertical position.

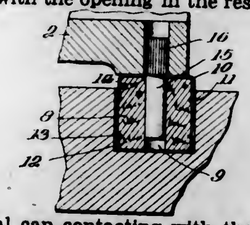
1,948,192
METHOD OF TREATING STEEL
Albert R. Stargardter, Brookline, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application March 10, 1932. Serial No. 597,945
11 Claims. (Cl. 148—16)



1. The method of producing colored and hardened strip steel, which consists in heating the strip to a temperature above its critical point, immersing the strip so heated in a gaseous mixture having a reducing constituent but being oxidizing in its effect, and then chilling the strip to harden it as thus oxidized.

1,948,193
RESILIENT MOUNTING FOR SEWING MACHINES OR THE LIKE
Charles S. Thompson, Elmhurst, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application March 4, 1932. Serial No. 596,831
1 Claim. (Cl. 248—16)

A resilient mounting for sewing machines or the like comprising a support having spaced sockets, a resilient supporting device in each socket including a cylindrical member of yielding material, said member being of substantially uniform diameter and having an opening centrally therethrough, a metal cap contacting with the upper end of said yielding member and having a cylindrical depending flange contacting with the cylindrical outer surface of the resilient supporting device and having an opening therethrough in alinement with the opening in the resilient mem-

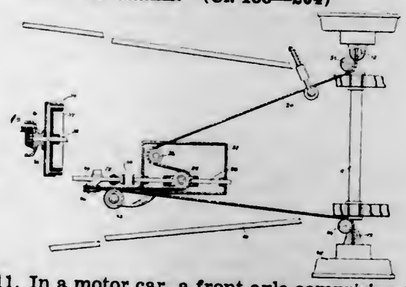


ber, a metal cap contacting with the lower end of said yielding member and having an upstanding cylindrical flange contacting with the outer face of said cylindrical member, said flanges being spaced from each other, said resilient device being so dimensioned as to fit in its respective socket with sufficient clearance to prevent lateral vibrations of the resilient device being transferred to the support, and a pin rigidly fixed to the sewing machine bed and snugly fitting the opening in said yelding member.

1,948,194
METAL-FORMING LUBRICANTS
Robert C. Williams, Columbus, Ohio, assignor, by mesne assignments, to The Ironsides Company, Columbus, Ohio, a corporation of Ohio
No Drawing. Application November 17, 1931
Serial No. 575,638
8 Claims. (Cl. 205—21)

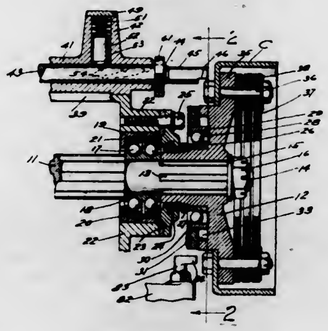
1. A lubricant for metal-drawing or stamping operations comprising wax or wax-like substances which will remain in the form of solid or semi-solid particles at the usual temperatures encountered in metal-drawing or stamping operations, and prior to the contact of the parts to be lubricated said particles being suitably dispersed in a liquid vehicle.

1,948,195
MOTOR CAR BRAKING SYSTEM
Ottavio Zancan, New York, N. Y.
Application August 28, 1931. Serial No. 559,831
15 Claims. (Cl. 188—204)



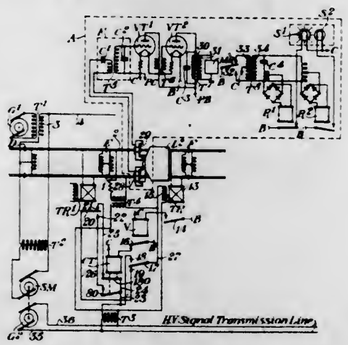
11. In a motor car, a front axle comprising two wheel supports one at each side thereof, wheels rotatably mounted on said supports, an equalizing braking mechanism for said wheels, a differential driving pinion, a propeller shaft for said pinion, a brake for said shaft, and an actuating member therefor interconnected with said braking mechanism.

1,948,196
AUTOMOBILE LOCKING DEVICE
Jean G. Auperin, Brooklyn, N. Y.
Application August 17, 1928. Serial No. 300,193
9 Claims. (Cl. 192—4)



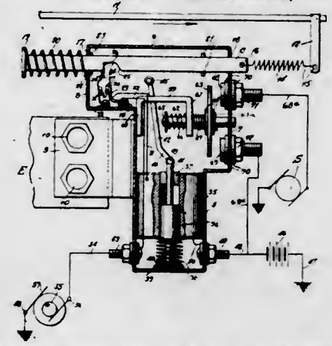
1. In a motor vehicle, a rotating part, a non-rotating part, and a locking ring having an integral wedge block adapted to automatically wedge between said parts to prevent the vehicle from reverse movement unless the gears are meshed in reverse.

1,948,197
RAILWAY TRAFFIC CONTROLLING APPARATUS
George W. Baughman, Pittsburgh, and Frank H. Nicholson, Edgewood, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 17, 1932. Serial No. 638,050
4 Claims. (Cl. 246—63)



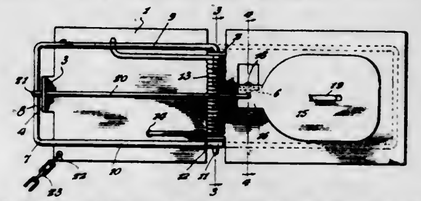
1. A train control system of the coded alternating current track circuit type for alternating current propulsion railroads in which the propulsion current flows through at least one rail of the track, said propulsion current containing harmonics of its fundamental frequency, characterized by synchronous generation of the track circuit current with respect to the propulsion current at a frequency determined in such manner that the beat frequency of said track circuit current with each of two consecutive harmonics of said propulsion current as well as the beat frequency resulting from the interaction of said two beat frequencies is greater than a predetermined value.

1,948,198
AUTOMATIC STARTER FOR INTERNAL COMBUSTION ENGINES
Kenneth R. Blake, Anderson, Ind., assignor of one-fourth to B. D. Emanuel, Anderson, Ind.
Application July 24, 1933. Serial No. 682,036
13 Claims. (Cl. 290—36)



1. An automatic starter for internal combustion engines having a starter motor circuit, generator and throttle control, comprising an electro-magnet in a normally open circuit with the generator means operable upon movement of the throttle control for closing the circuit, a normally open starter circuit including a switch and means controllable by the first mentioned circuit for directly connecting the throttle control to the starter circuit switch.

1,948,199
ANIMAL TRAP
Thomas Booth, Boise, Idaho
Application January 12, 1932. Serial No. 586,190
1 Claim. (Cl. 43—81)

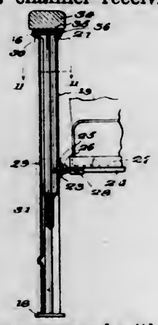


A device of the class described including a base plate cut to define upwardly disposed ears medially of its length and having a tongue projecting past one end of said base plate and being bent upwardly to form a lug having an aperture, a jaw swingingly connected to the ears, a spring carried by the jaw, a bait pan swingingly connected with the base plate, and a jaw-controlling rod extending longitudinally of the jaw above the spring and having an end extending through the aperture, said jaw extending past the end of the base plate and having a bight portion engageable beneath the end of the rod, said end of the rod being adapted for bending downwardly on the bight portion for predetermining the pressure required to swing the bait pan and retract the rod for releasing the jaw.

1,948,200
CHAIR
Irl R. Bromagem, Union City, Ind.
Application September 4, 1931. Serial No. 561,232
24 Claims. (Cl. 155—86)

8. A theater chair comprising a pair of independent standards each having a flange in its upper portion and a socket in its intermediate

portion, a seat unit, a pair of members each connected to a side of the seat unit having a hook received in one of the sockets for supporting the seat unit and a channel receiving one of the



flanges, and means engaged with each standard and the cooperating channel of the member for preventing disengagement of the seat unit and the standard.

1,948,201

METHOD OF MAKING SODIUM ETHYL OXALACETATE AND THE PRODUCT THEREOF

Ray M. Carter and William L. Johnson, Baltimore, Md., assignors to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia

No Drawing. Application July 26, 1932 Serial No. 624,904 13 Claims. (Cl. 260—106)

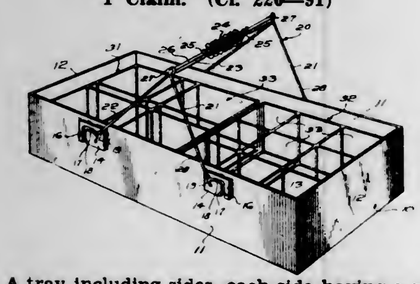
1. The method of manufacturing stable sodium ethyl oxalacetate, which comprises dissolving sodium in absolute ethyl alcohol, cooling the solution to about 0°–15° C., adding diethyl oxalate and ethyl acetate in substantially stoichiometrical proportions, allowing the reaction to proceed substantially to completion at the lowered temperature, warming the liquid reaction mixture for a period of about 15–30 minutes, cooling to a pasty mass, and obtaining a substantially solid product by expressing liquid from the mass under high pressure.

1,948,202

BAIL CONNECTING MEANS

Robbie C. Chapman, Greenville, S. C.

Application November 10, 1932 Serial No. 642,097 1 Claim. (Cl. 220—91)



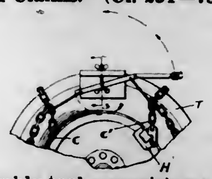
A tray including sides, each side having a pair of spaced attaching plates, the attaching plates in each pair having inverted approximately L-shaped slots, each slot having a generally vertical slot portion extending through the bottom of the attaching portion and a generally horizontal slot portion which extends inwardly from the generally vertical slot portion, the generally horizontal slot portion having a downwardly inclined inner portion each attaching plate being further provided with an upstanding slot portion leading into the inclined slot portion and projecting above and below such inclined slot portion, and a pair of inverted U-shaped handle elements including transverse portions, one transverse portion being straight and the companion transverse portion being bent into a relatively large coil for forming a grip, said coil being spaced from the straight transverse portion, the companion transverse portion being further bent into eyes for pivotally receiving the straight transverse portion, the arrangement being such that the handle elements may be readily collapsed, said handle elements being provided at their free ends with inwardly bent lateral extensions having heads, the lateral extensions being adapted for insertion within the inverted approximately L-shaped slots and to be locked within the upstanding slot portions when the handle elements are shifted upwardly or downwardly with relation to the tray.

1,948,203

ASSEMBLY TOOL

Thomas W. Costello, Spokane, Wash.

Application June 28, 1933. Serial No. 678,020 4 Claims. (Cl. 254—78)



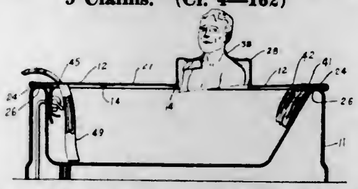
1. An assembly tool comprising a saddle adapted to rest upon a tire, a lever-yoke pivotally supported on the saddle, and a pair of hooked-links pivotally mounted on the yoke at opposite sides of its fulcrum.

1,948,204

TUB COVER

James E. Dillard, Berkeley, Calif.

Application June 1, 1931. Serial No. 541,293 5 Claims. (Cl. 4—162)



1. In a device of the character described, a steam cover for an open bath tube, comprising a member for closing said opening and having ports therein for the reception of a portion of a bather's body, means for detachably securing said member to the tub to provide a substantially steam tight chamber, and transversely adjustable feet on said member arranged to engage the inner sides of the tub to retain the member in operable position.

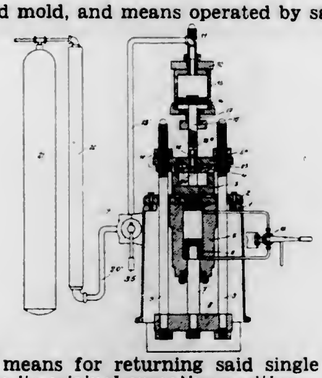
1,948,205

MOLDING MACHINE

Norbert Jacquemont du Donjon, Paris, France

Application August 4, 1932. Serial No. 627,485 4 Claims. (Cl. 22—68)

2. In a pressure molding machine, a mold having at least two sections, means for fixedly mounting one of said sections, hydraulic means for moving the other section, single acting means for forcibly injecting the material to be molded into said mold, and means operated by said hydraulic means for returning said single acting means to its original operating position.

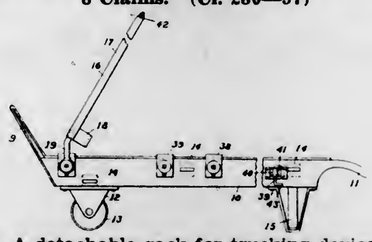


1,948,206

FLOOR TRUCKING EQUIPMENT

James T. Earle, Cincinnati, Ohio, and Alvin McNeese, Covington, Ky.

Application February 29, 1932. Serial No. 595,734 8 Claims. (Cl. 280—57)



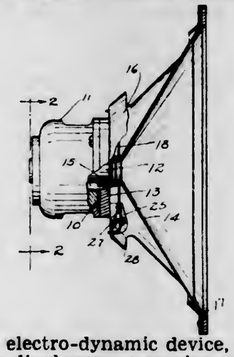
2. A detachable rack for trucking devices said rack comprising side members secured together in spaced relationship, and extensions on each side member projecting therefrom in a common direction said extensions each comprising a head having a substantially central opening with a communicating slot extending from the opening to an edge of the head, and an offset abutment on the head exteriorly of the opening said offset abutment being substantially at right angles to the plane of the rack.

1,948,207

ELECTRODYNAMIC DEVICE

Bernard A. Engholm, Lakewood, Ohio, assignor to The Rola Company, Cleveland, Ohio, a corporation of Ohio

Application June 16, 1932. Serial No. 617,525 7 Claims. (Cl. 179—115.5)



2. In an electro-dynamic device, the combination with a diaphragm, a moving coil and a flexible supporting spider, of a stationary support, arms frictionally engaging the spider and means for locking the arms to the support.

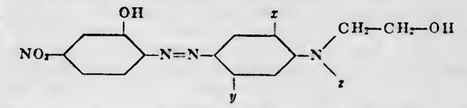
1,948,208

AZO-DYESTUFFS

Friedrich Felix and Wilhelm Huber, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application June 8, 1933, Serial No. 674,965, and in Switzerland July 8, 1932 3 Claims. (Cl. 260—97)

2. The dyestuff of the general formula



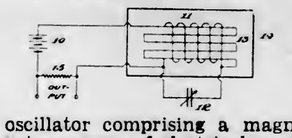
wherein x stands for hydrogen, alkyl or alkoxy, y for hydrogen, alkyl or alkoxy, and z for hydrogen, alkyl or alkoxy, which products form dark powders dissolving in ethyl acetate to red to violet solutions, and dyeing acetate silk or quite generally cellulose ester and cellulose ether from aqueous suspensions fast red to violet tints of great purity.

1,948,209

MAGNETORESISTIVE SYSTEM AND APPARATUS

Carl Fichandler, New York, N. Y.

Application October 5, 1931. Serial No. 567,123 4 Claims. (Cl. 250—36)



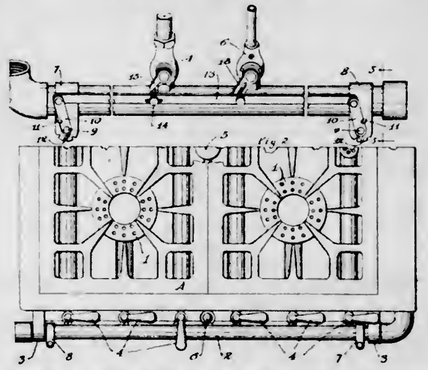
1. An oscillator comprising a magneto-resistive element, a source of electrical energy, and a tuned circuit in series with said source of energy and said magneto-resistive element comprising a winding arranged to magnetize said magneto-resistive element.

1,948,210

GAS STOVE LIGHTER ACTUATING MECHANISM

Allen J. French, St. Paul, Minn.

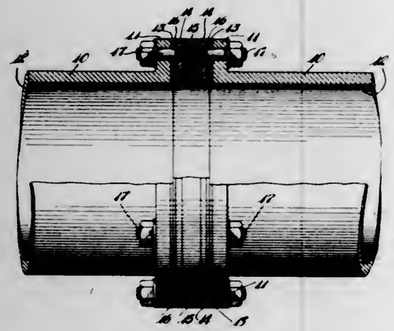
Application July 22, 1931. Serial No. 552,524 1 Claim. (Cl. 158—115)



In combination with a gas stove, having a burner, a pilot light, a manually adjustable valve

associated with said burner, and a valve associated with said pilot light, a pair of link supports fixedly connected to said stove, a pair of links pivotally connected one to each of said supports, a bar pivotally connected to the opposite ends of said links from said supports, said bar being positioned substantially parallel to a line between said valves, a projection fixedly secured to said bar adjacent each of said valves, a valve operating arm connected to said pilot valve and to one of said projections to operate said pilot valve on longitudinal movement of said bar, a cam arm operatively connected to said burner valve, said cam arm being adapted to engage the other of said projections on an opening movement of said burner valve, to move said bar longitudinally to operate said pilot valve, and a pair of oppositely positioned springs mounted on said links to normally hold said bar in spring balanced position to permit engagement of one of said projections by said cam arm.

1,948,211
FLEXIBLE SEALING COUPLING
Howard E. Fritz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 17, 1932
Serial No. 633,579
5 Claims. (Cl. 285—90)



1. A flexible coupling assembly comprising, in combination, a pair of conduit sections, a cushioning structure comprising an annular cushioning body disposed between the opposed ends of said sections, a pair of axially spaced annular members secured at their opposed faces in tension-resisting relation to said cushioning body, sealing elements disposed between the annular members and the respective conduit sections, and means for securing the members axially against the sealing elements at the respective ends of the conduit sections in sealing relation thereto, said securing means permitting the said body to cushion relative movement of the sections.

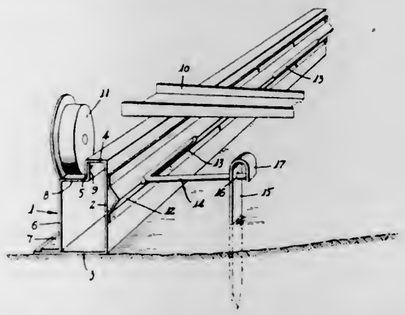
1,948,212
MOP
Oscar Halperyn, Brooklyn, N. Y.
Application May 28, 1932. Serial No. 614,208
2 Claims. (Cl. 15—147)

1. A mop of the character described comprising a handle and a mop head, means for securing one to the other, said mop head comprising a plurality of strands bent back upon themselves to form a fold, a binding wire surrounding said strands at the fold and pressed flat thereon under great pressure and adapted to be clamped by said



securing means, and a loose holding cord passing through the folds of the strands.

1,948,213
ROAD FORM
John N. Heltzel, Warren, Ohio
Application July 26, 1929. Serial No. 381,274
19 Claims. (Cl. 25—118)

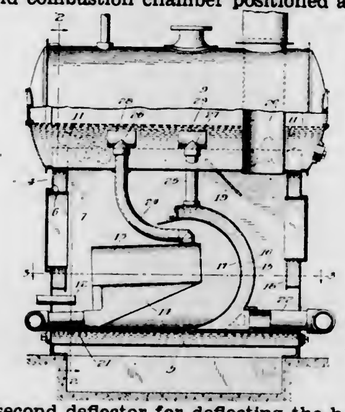


1. A road form rail having means for receiving and supporting one arm of an angular dowel rod.

11. A road form rail comprising one part having a web, a tread portion, and a base portion; and a second part between and secured to said portions and having a tread portion at a lower level than the firstnamed portion.

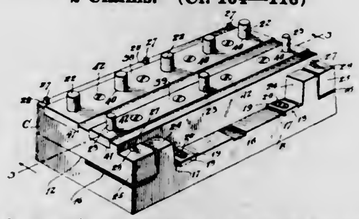
1,948,214
FURNACE
George Hofmann, Lyons, Ill.
Application June 25, 1931. Serial No. 546,866
5 Claims. (Cl. 122—503)

1. A furnace comprising a boiler portion, a combustion chamber having a downwardly opening outlet in its top wall, a deflector, in the form of a water container, in said chamber and shaped to cause burning fuel flowing along the underside of said deflector to be divided into streams and deflected laterally in opposite directions toward the side walls of the chamber, a second deflector, in the form of a water container, in the rear of said first-named deflector for deflecting forwardly over said first-named deflector unburned fuel flowing rearwardly beyond said first-named deflector, and a rearwardly and downwardly inclined deflector at the top of said combustion chamber positioned adjacent



said second deflector for deflecting the hot fluid downwardly against said deflector.

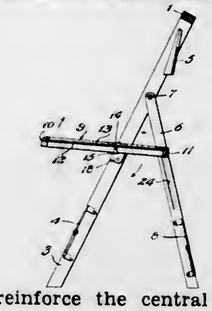
1,948,215
PUNCH
Victor Kalfus, New York, N. Y.
Application June 17, 1931, Serial No. 545,109
Renewed May 17, 1933
2 Claims. (Cl. 164—118)



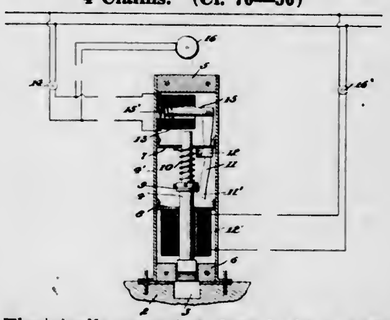
1. A punch comprising a rectangular base block having a flat upper work-supporting face and provided with a punch-receiving opening which opens through said upper face, a cap block overlying said base block and adapted to hold the work against said work-supporting face, said cap block being of less width than said base block, leaving one edge portion of the latter projecting beyond one edge of the cap block, lugs integral with said one edge of said cap block and said projecting edge portion of said base block, said lugs having abutting faces holding said cap block against sliding relative to said base in either of two opposed directions, said one edge of said cap block abutting at least one base-carried lug to hold the cap block against sliding in a direction at right angles to the aforesaid directions, and a punch carried by said cap block for reception in said punch-receiving opening.

1,948,216
FOLDING CHAIR
Walter H. Gillette, Louisville, Ky.
Application April 17, 1933. Serial No. 666,609
6 Claims. (Cl. 155—142)

5. In a folding chair, the combination of a pair of front legs and a pair of rear legs pivotally connected thereto, a chair seat having a marginal frame and a central panel portion secured thereto, said seat being slidably mounted in the rear legs, and a metal bar extending beneath said chair seat and pivotally mounted at its ends in said front legs, said bar being secured to the lower face of the frame of said chair seat and offset upwardly within said frame to engage and reinforce the central panel of the chair seat.



1,948,217
ELECTRIC LOCK
Charles M. Goodwin, Sr., Richmond, Va.
Application March 14, 1922. Serial No. 598,841
4 Claims. (Cl. 70—50)

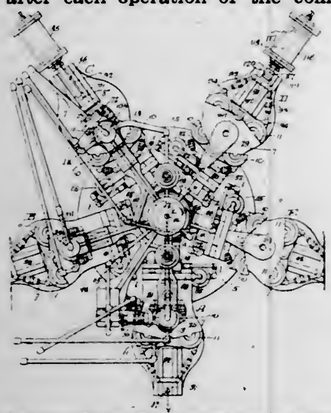


1. Electrically operated door locking and releasing means, comprising a casing formed with two transverse partitions secured to each side wall of the casing, a locking bolt passed centrally through each partition, a collar formed around the outer end portion of the bolt, a solenoid fixedly secured to the inner face of the casing, a core within said solenoid having a coiled spring secured to its inner end portion adapted to abut against the inner side wall of the casing, a member pivotally secured to the outer end of said core and passed through the outer partition for retaining the bolt in its unlocked position, and a solenoid secured to the lower face of the inner partition for forcing the bolt into its unlocked position.

1,948,218
GLASS WORKING MACHINE
Benjamin T. Headley and Parke H. Thompson, Millville, N. J., assignors, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Continuation of application Serial No. 814,728, January 27, 1914. This application October 25, 1915. Serial No. 57,800½
55 Claims. (Cl. 49—5)

39. In a glass working machine, a plurality of blank molds and associate neck molds, a substantially horizontally traveling member carrying said molds and movably mounted to bring the same to a plurality of different stations, the neck molds being mounted on and attached to said member, said member being adapted to present each mold in inverted position at a charging sta-

tion, means for supplying fluid pressure to the upper end of a mold at the charging station to compact the glass into the neck end of the mold, closing means at another station for the bottom ends of the molds, means at such other station acting automatically at a predetermined time interval after each operation of the compacting



means for supplying fluid pressure to a mold having said closing means in operative relation thereto to form a hollow parison therein, a plurality of blow molds, means at still another station for finish-blowing the parisons in the blow molds, and automatic means for turning the parisons neck end upwardly after the glass has been compacted therein and before the finish-blow.

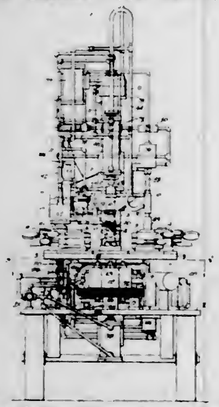
1,948,219

GLASS WORKING METHOD AND MACHINE

Benjamin T. Headley and Parke H. Thompson, Millville, N. J., assignors, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware

Continuation of application Serial No. 845,684, June 17, 1914. This application November 10, 1915. Serial No. 60,744

55 Claims. (Cl. 49—5)



23. In a glass blowing machine, a series of blank molds, neck molds associated therewith, a member carrying said blank molds and rotatably mounted to bring said blank molds to a plurality of different stations, means acting automatically to rotate the member, means for charging said blank molds successively at one of said stations, means for compacting the charge of glass in each blank mold at said station, means for moving said member to bring each such mold thereafter to another station, and a succeeding mold to the first station, means for counterblowing the charge of glass in such blank mold at such other station, means for closing the bottom ends of the blank molds during counterblowing, automatic means for timing the operations of the compacting and counterblowing means to assure regular spaced time intervals between compacting and counterblowing of successive charges, a series of blow molds, and means for finish blowing the blanks in the blow molds.

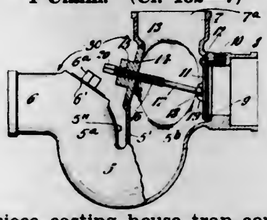
1,948,220

HOUSE TRAP

Edward Kennedy, New York, N. Y.

Original application February 21, 1929, Serial No. 341,710. Patent No. 1,875,615, dated September 6, 1932. Divided and this application August 13, 1932. Serial No. 628,636

1 Claim. (Cl. 182—7)



A one-piece casting house trap comprising a U-shaped body having closely spaced substantially parallel legs, the legs being aligned in one plane, a sewer piping hub extension at right angles to one leg of the U, a valved house piping hub extension substantially at right angles to the other leg of the U, both extensions being on the outer walls of the U-shaped body and substantially in horizontal line with each other, a fresh air inlet hub extension on the latter leg and extending above both hub extensions and in registration with the bore of the leg of the U adjacent the house piping hub extension, and threaded clean-out opening closure plugs within the adjacent inner walls of the U-shaped body substantially flush with the walls thereof and forming a continuous wall with the wall of the leg to which the closure plug is applied, said plugs being inclined to the legs and to the sewer pipe and house piping hub extensions, and to each other and arranged opposite to each other and substantially in horizontal line with each other within the bight of the U, whereby both plugs and openings therefor are within the bight of the U, but either plug may be removed without conflicting with the other plug.

1,948,221

LIQUID FUEL STOVE

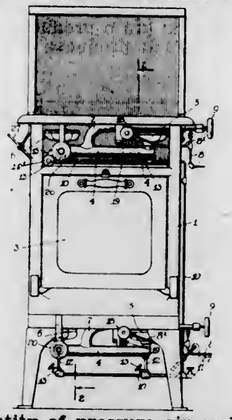
Frederic E. Kip, Montclair, N. J.

Application October 24, 1929. Serial No. 402,058

8 Claims. (Cl. 126—44)

1. Means especially constructed and adapted for use in a domestic cooking stove for generating and burning vaporized fuel, comprising a source of liquid fuel, a vaporizer including a burner connected to said source and valve controlled means for regulating the fuel fed to the vaporizer, a manifold pipe-connected with the vaporizer, one or more service burners supported upon and pipe-connected to the manifold, and each having a plurality of jet openings, a storage supply of air under pressure pipe-connected with the manifold and having branches,

one terminating below and in line with each of the pipes leading from the manifold to the burners, and separate manually controlled valves at each of the service burners for regulating at



will the quantity of pressure air and fuel to be mixed and fed thereto, whereby a substantially sootless blue flame of variable pressure may be provided at the said burner.

1,948,222

COMBINED MIRROR AND INSTRUMENT

William La Hodny, Buffalo, N. Y., assignor to Standard Mirror Company, Inc., Buffalo, N. Y., a corporation of New York

Application May 1, 1930. Serial No. 448,837

11 Claims. (Cl. 45—97)



11. A securing device for securing an instrument case to a transparent panel having a concave opening in the rear face thereof which comprises a plurality of one piece clips and means to secure said clips in adjustable relation to said instrument case and contacting with said panel, said instrument case extending into said concave opening and being drawn into sealing position by said adjustable means.

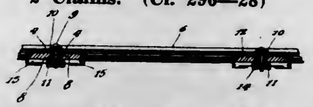
1,948,223

MOTOR VEHICLE BODY CONSTRUCTION

Albert L. Luce, Perry, Ga.

Application November 5, 1931. Serial No. 573,218

2 Claims. (Cl. 296—28)



1. In a vehicle body construction, stationary standards comprising bars each having inner and outer webs disposed at right angles to each other, the inner webs of the bars being parallel and spaced apart, covering members secured against the outer sides of the outer webs, facing strips bridging the space between the inner webs and extending laterally beyond said inner webs in spaced parallel relation to the outer webs to form oppositely disposed guide channels for a vertically movable window sash, and securing bolts inserted through said strips and through the spaces between the inner webs and engaging the covering members.

1,948,224

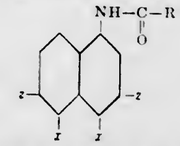
AZO-DYESTUFFS AND PROCESS OF MAKING SAME

Emil Eduard Misslin, Basel, and Rudolf von Capeller, Binningen, near Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application February 23, 1933, Serial No. 658,240, and in Switzerland February 25, 1932

18 Claims. (Cl. 260—72)

11. The azo-dyestuffs of the general formula



wherein R stands for hydrogen, alkyl or aryl, x in one case stands for an NH—CO—y-group, y being hydrogen, alkyl or aryl, and in the other case for an OH-group, wherein further the z standing in ortho-position to the NH—CO—y-group represents a hydrogen atom, and the z standing in ortho-position to the OH-group represents an R_1—N=N=radicle, R_1 being the aromatic radicle of any diazo-compound, which products constitute dark powders which dye textiles red to blue and green tints.

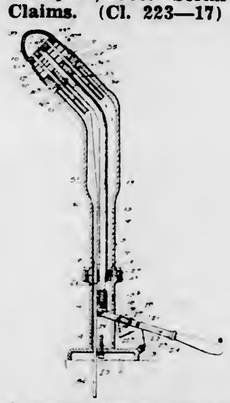
1,948,225

IRONER

Adolph A. Myers and Edgar W. Archer, Louisville, Ky.

Application January 18, 1930. Serial No. 421,803

8 Claims. (Cl. 223—17)



1. A garment drying device comprising an extensibly connected pair of body portions, each of said body portions providing a chamber and being closed at their adjacent ends, actuating means secured to said body portions, telescoping conduits connecting the chambers of said body portions and means for supplying a heating fluid to one of said conduits.

1,948,226

CONCRETE MIXER

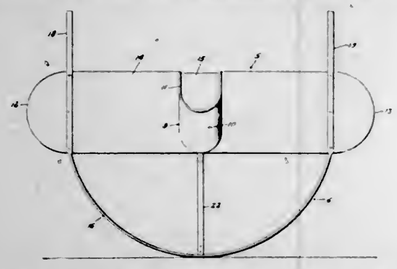
Daniel Jeremiah Price, Mullen, Tex.

Application April 6, 1932. Serial No. 603,662

3 Claims. (Cl. 83—73)

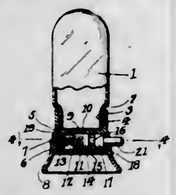
1. A mixer of the type described comprising a closed receptacle having a flat bottom and vertically and inwardly curved ends, and provided centrally of its top with a relatively nar-

row transverse charging opening extending through one side of the receptacle, a discharge spout laterally extended from said side of the receptacle and in communication with the



charging opening, rocker means for rockably supporting the receptacle, said mixer being rockable for throwing a charge against either curved end thereof for turning over and mixing the charge.

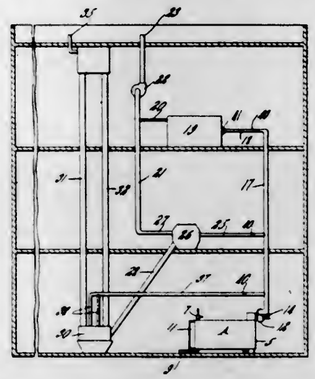
1,948,227
DISPENSING DEVICE
George Rechten, Hasbrouck Heights, N. J., assignor of one-third to Ira W. Smith, Newark, N. J., and one-third to James J. Keegan, Brooklyn, N. Y.
Application May 24, 1933. Serial No. 672,733
1 Claim. (Cl. 65—45)



In a device of the character described, a reservoir for a substance to be dispensed, a base for said reservoir having a relatively small opening therethrough communicating with the interior of said reservoir, said base also having an elongated chamber therein extending transversely of and interrupting said opening and forming a slideway, a slide in said slideway, said slide having the major portion of its length of substantially the same cross section as said slideway and having an encompassing channel intermediate its ends forming a part of reduced cross section, resilient means normally positioning said slide with a portion of its length of the larger cross section closing said opening, and means projecting outside of said base for manually moving said slide to cause said reduced portion to register with said opening, said base being of two parts, the line of division between said parts extending longitudinally of said chamber whereby when said parts are separated said slide may be removed from said chamber, and means detachably securing the parts of said base together.

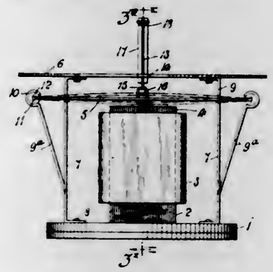
1,948,228
PROCESS OF DESTROYING INSECTS
George P. Urban, Buffalo, N. Y.
Application March 10, 1933. Serial No. 660,262
7 Claims. (Cl. 43—124)

1. A process of destroying insects which infest appliances for making grain products, which includes heating exterior to said apparatus a non-poisonous gas to a temperature of at least 130° F. to destroy the insects, passing a substantially continuous current of said heated gas into the interior of an appliance while the same is not operating on grain products and substantially empty of such products, and having the



gas held by said appliance to secure a higher pressure within the appliance than that of the exterior atmosphere, and discharging such gas from said appliance at a point remote from the point at which it is introduced, to insure a circulation of said gas through said appliance to destroy insect life in such appliance.

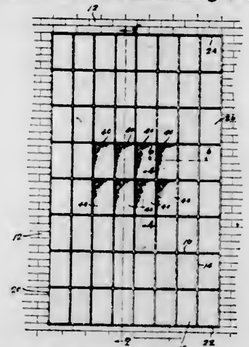
1,948,229
SCROLL SAW
Walter H. Young, Detroit, Mich.
Application October 11, 1933. Serial No. 693,191
18 Claims. (Cl. 143—70)



1. In combination, a saw table, a reciprocally supported saw blade extending through said table, a high-frequency electro-magnet beneath said table, a flexible leaf-spring armature having its mid portion exposed to the field of said magnet and operatively connected to said saw blade, and means supporting the ends of said armature.

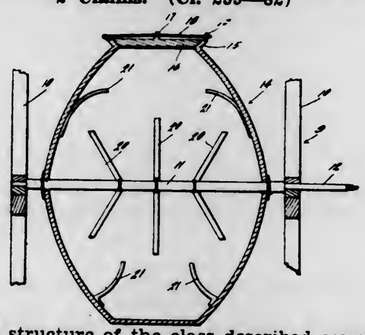
1,948,230
DETENTION SASH ASSEMBLY
William D. Bayley, Springfield, Ohio
Application January 22, 1932. Serial No. 588,155
40 Claims. (Cl. 189—64)

3. In a detention window sash, a plurality of transversely arranged muntin bars forming a plurality of open spaces for ventilation, individual screens for screening each of said spaces and a movable closure including a frame and a



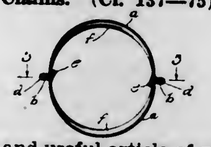
window pane in said frame for stopping the circulation through said open spaces.

1,948,231
SEED MIXING MACHINE
Frederick William Gerstandt, Knox, Ind.
Application September 8, 1932. Serial No. 632,217
2 Claims. (Cl. 259—82)



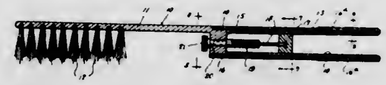
1. A structure of the class described comprising a relatively stationary supporting stand having uprights provided with bearings, a shaft mounted for rotation in said bearings, a turning crank for said shaft, a substantially barrel-shaped receiver attached to said shaft for rotation therewith, said receiver being provided with an open intake end, a removable closure for said intake end, a plurality of agitating elements attached to the wall of the receiver on the interior thereof, and a plurality of agitating fingers attached to said shaft and co-operating with said elements.

1,948,232
PIPE
Eric E. Hall, Chicago, Ill.
Application August 6, 1931. Serial No. 555,505
6 Claims. (Cl. 137—75)



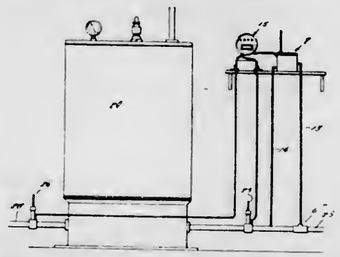
1. As a new and useful article of manufacture, a pipe consisting of two portions, each of which is provided on its longitudinal edges with interlocking means whereby they can be quickly united to form a complete pipe, said interlocking means consisting of a generally radially directed flange extending along one edge and a hook extending along the other edge, provided with opposed lugs to prevent the flange being sprung out of the hook, the ends of the flange being beveled and the surfaces of the lugs contacting the opposed portion being cooperatively rounded, so that the two portions are interlocked by sliding them together by a longitudinal movement.

1,948,233
TOOTHBRUSH
John J. Janik, Niagara Falls, N. Y.
Application March 21, 1933. Serial No. 661,987
3 Claims. (Cl. 272—57)



1. In a structure of the class described, a pair of spaced parallel resilient pressure-resistant arms formed at their free ends with anti-slipping tooth grips, and means between said arms for regulating the tension thereof, said means comprising a slidable block, a feed screw attached to the block, and operating means for the feed screw.

1,948,234
HEAT METER
Cecil Leroy Johnson, Toledo, Ohio
Application February 13, 1931. Serial No. 515,624
1 Claim. (Cl. 73—184)



A heat meter comprising a heat supply pipe, a heat return pipe, means in said supply pipe for creating a differential pressure responsive to rate of flow of fluid therein, a manometer, means operatively connecting said manometer to said supply pipe so as to be responsive to the differential pressure created by the first mentioned means, a register meter including a pair of balance coils for operating the indicating mechanism of the meter, said manometer including a resistance, a current supply line, one side of the current supply line being connected to one side of one of the balance coils, the other side of the said coil being connected to one side of the manometer resistance, the other side of the current supply being connected to the remaining side of the manometer resistance, a current transformer including a pair of primary windings, the secondary of the transformer being connected across the remaining balance coil of the meter, a temperature measuring device including a resistance in each of the supply and return pipes in circuit with a corresponding primary winding of the transformer.

1,948,235

ELECTROLYTIC MANUFACTURE OF IRON AND ITS ALLOYS

Ernst Kelsen, Vienna, Austria, assignor to Kelsen Special Sheet Holding, S. A., Luxemburg, Luxemburg, a limited company of Luxemburg

No Drawing. Application March 17, 1933, Serial No. 661,417, and in Austria April 22, 1931

2 Claims. (Cl. 204—1)

1. In a process of preparing electrolytically manufactured iron of improved magnetic qualities from raw materials containing sulphur, the step of reducing the sulphur content of the electrolytically produced iron by adding to the electrolyte containing the iron salt a salt of an alkaline earth metal which possesses a cation which yields an insoluble precipitate with SO_4-ion, in an amount sufficient to completely effect such precipitation.

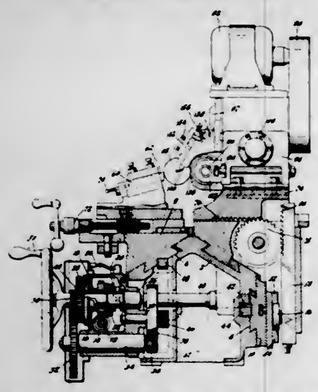
1,948,236

PISTON MILLING AND TURNING MACHINE

Frank A. King, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 17, 1931. Serial No. 557,559

11 Claims. (Cl. 29—27)



1. In a piston milling and turning machine, a plurality of rotatable saws for cutting piston ring grooves into the piston, means to rotate said saws and means to rotate said piston, said piston and saws rotating in the same tangential direction at their place of contact but at different speeds, tools to chamfer the edge of the grooves and the piston ends, means to move said saws and tools toward and away from the piston, a plurality of tools for turning off the metal at the periphery of the piston, means for moving said last-named tools past the piston.

10. In a piston milling and turning machine, a plurality of tools simultaneously operable on a piston, said tools including a plurality of rotatable tools for removing metal from the piston to form grooves in the periphery of the piston, means to rotate said tools and more them relative to the work, tools for chamfering the edge of said grooves and the ends of the piston, means for moving said chamfering tools to and from the piston, tools for turning off the ends of the piston, means for moving said turning-off tools to and from the piston, a tool for turning off the metal at the cylindrical surface of the piston, and means to operate said last named tool to cause it to engage the piston, all of said means being operatively interrelated and operating simultaneously and in unison.

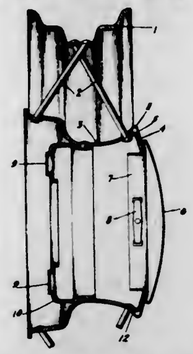
1,948,237

WIRE WHEEL HUB COVER

Wilfred R. Milner, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 16, 1932. Serial No. 599,141

1 Claim. (Cl. 41—10)



For use with a vehicle wheel hub having a peripheral swell at its outer end and an inwardly extending flange which is partly overlapped by the rim of a cap detachably secured to the flange, a cover concealing the portion of the flange beyond the rim of the cap, comprising a thin sheet metal ring having an inside diameter less than the outside diameter of the cap and extending outwardly beyond the swell in the hub, a reversely bent flange at the periphery of the ring having a series of radial slits therein and being adapted to snap over the swell and engage the hub beyond the swell to position and locate the ring for its retention by the rim of the cap overlying and clamping its inner end against the hub flange.

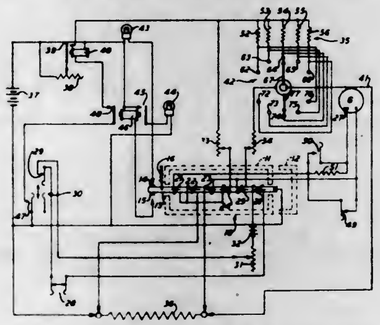
1,948,238

APPARATUS FOR TESTING ELECTRICAL CONDUCTORS

William E. Prince, Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application April 7, 1933. Serial No. 664,870

8 Claims. (Cl. 175—183)



1. In an apparatus for testing an electrical element, an electrical circuit including a Kelvin double bridge, said bridge having an arm including the element to be tested, an arm including a variable resistance, and an electromagnetic device associated with the bridge having a winding in the second mentioned arm and another winding connected across the bridge.

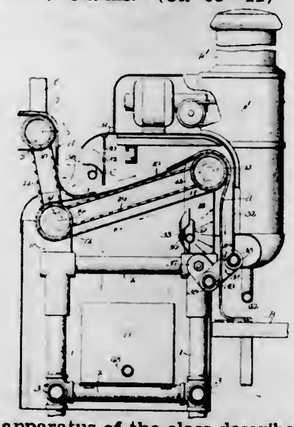
1,948,239

APPARATUS FOR SUBJECTING CLOTHES TO ULTRA-VIOLET RADIATION AND OZONE IN LAUNDRY OPERATIONS

William R. Redd, Western Springs, Ill., assignor to Milprint Products Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application May 12, 1932. Serial No. 610,971

7 Claims. (Cl. 68—11)



1. An apparatus of the class described, including, in association, a continuously traveling belt conveyor adapted to receive the clothes to be treated at its rear end and discharge them at its forward end; lamps constituting sources of ultra-violet radiation arranged adjacent said belt conveyor, and positioned to direct their rays upon opposite sides of said clothes, and an ozone-generating device having means disposed on opposite sides of the clothes as they leave the belt conveyor for directing ozone upon both sides of the clothes.

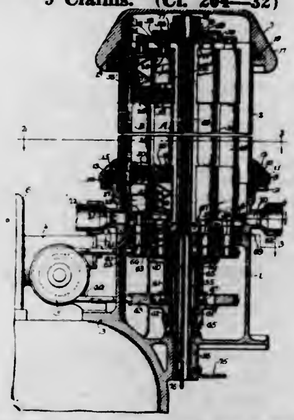
1,948,240

OZONE GENERATOR

William R. Redd, Western Springs, Ill., assignor to Milprint Products Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application July 30, 1932. Serial No. 626,371

9 Claims. (Cl. 204—32)



1. In an ozone generator of the class described, the combination of a housing forming an ozone generating compartment through which air is circulated, a plurality of groups of vacuum tubes forming electrodes positioned within said compartment so that the electrodes of one group are in spaced relation to the electrodes of another group to form discharge gaps therebetween, means for maintaining the groups in motion relatively to each other, and means for maintaining the individual electrodes of each group in motion relatively to the other electrodes in the group and relatively to the electrodes of the other groups.

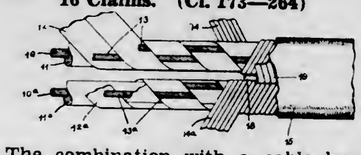
1,948,241

ELECTRIC CONDUCTOR

Edwin J. Schneider, Jamaica, and Merritt B. Bradt, Brooklyn, N. Y., assignors, by mesne assignments, to General Cable Corporation, New York, N. Y., a corporation of New Jersey

Original application January 14, 1928, Serial No. 246,683. Divided and this application March 6, 1929. Serial No. 344,630

16 Claims. (Cl. 173—264)



16. The combination with a cable having a fabric sheathing therearound, of a serpentine conductor extending longitudinally of the cable and lying within the sheathing.

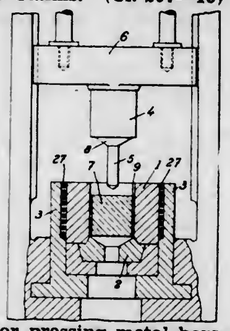
1,948,242

METHOD OF AND MEANS FOR PRESSING METAL ARTICLES

Ernst Schubarth, Menden, near Iserlohn, Germany

Application July 26, 1932, Serial No. 624,677, and in Germany June 18, 1932

3 Claims. (Cl. 207—10)



1. Means for pressing metal bars, rods, tubes and pipes having one layer formed from a metal different from that forming another layer, comprising a receiver for a block of metal including a plurality of layers conforming in arrangement and characteristics with those of the articles to be produced, there being an aperture in said receiver forming a die defining the external contour of the finished article, and means for urging the metals constituting said block through said die, said latter means comprising a pressure member having a flat rim, the width of which corresponds with the width of the outer metal layer of the block, and an inner outwardly projecting portion for urging the inner part of the block towards the outer layer as it presses against said block.

2. The method of forming compound metal bodies, which consists in providing a plurality of

pieces of different metals of complementary shape adapting them to be nested, heating each of said pieces separately to extrusion temperature, nesting the pieces thus heated, to form a composite block in which said pieces constitute co-axial layers, placing such block, while hot, in the receiver of a press, and extruding said block from such receiver by pressure-exerting means acting directly on all of said co-axial layers.

1,948,243
CHILLED ROLL
William H. Seaman, Hammond, Ind.
No Drawing. Application May 3, 1930
Serial No. 449,686
11 Claims. (Cl. 80—58)

1. A high carbon chilled iron alloy roll containing a small amount of silicon, chromium and manganese to ensure a definite chill, said amounts running from about .15 to about .65 silicon and from about .15 to about .27 manganese and from about .20 to about .50 chromium, said roll also containing a substantial quantity of nickel to secure toughness of said chill, said nickel running from about 2.50 to about 5.0.

1,948,244
CHILLED ROLL AND METHOD OF MAKING SAME
William H. Seaman, Hammond, Ind.
No Drawing. Application May 3, 1930, Serial No. 449,687. Renewed December 11, 1933
2 Claims. (Cl. 80—58)

1. The method of making chilled iron alloy rolls which consists in ensuring a chill by using small quantities of silicon, manganese and chromium running from about .25 to about .35 silicon and from about .25 to about .35 chromium and from about .18 to about .22 manganese and securing hardness of said chill by using carbon and nickel as desired from about 3.15 to about 3.20 carbon and from about 3.50 to about 4.0 nickel.

1,948,245
CHILLED ROLL AND METHOD OF MAKING SAME
William H. Seaman, Hammond, Ind.
No Drawing. Application May 3, 1930, Serial No. 449,688. Renewed December 11, 1933
4 Claims. (Cl. 80—58)

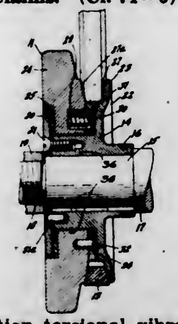
1. The method of making chilled iron alloy rolls which consists in ensuring a chill by using small quantities of silicon, manganese and chromium and securing hardness of said chill by employing carbon and nickel from about 3.25 to about 3.35 carbon and from about 4.75 to about 5.0 nickel.

3. The method of making chilled iron alloy rolls which consists in ensuring a chill by using small quantities of silicon, manganese and chromium running from about .15 to about .25 silicon and from about .25 to about .35 chromium and from about .15 to about .20 manganese and securing hardness of said chill by using carbon and nickel as desired from about 3.25 to about 3.35 carbon and from about 4.75 to about 5.0 nickel.

1,948,246
METAL ROLL
William H. Seaman, Hammond, Ind.
No Drawing. Application October 2, 1930
Serial No. 486,042
9 Claims. (Cl. 80—58)

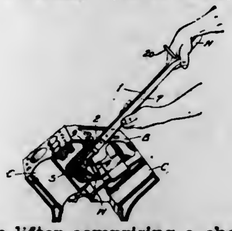
1. A cast iron alloy chilled roll, the alloy including as modifying elements carbon from 2.60% to 3.35%, manganese .10% to .40%, chromium .15% to .65%, nickel 1.25% to 5.00%, and molybdenum in substantially the same proportion as the chromium.

1,948,247
VIBRATION DAMPER
Caleb E. Summers, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 25, 1931. Serial No. 525,118
9 Claims. (Cl. 74—6)



1. A combination torsional vibration eliminator and means adapted to drive an auxiliary device, comprising a hub associated with means adapted to secure it rigidly to the end of an engine crankshaft; a rigid flange on said hub; an inertia member sleeved on said hub adjacent said flange; a yieldable driving connection between said inertia member and said hub, and opposed conoidal surfaces on said flange and inertia member adapted to be engaged by a driving band.

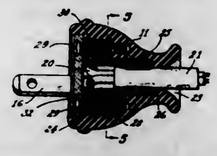
1,948,248
VALVE LIFTER
Joseph Sunnen, Kirkwood, Mo.
Application January 16, 1933. Serial No. 651,884
2 Claims. (Cl. 29—86.3)



1. A valve-lifter comprising a channel-shaped handle bar, a pair of levers mounted on opposite sides of said bar adjacent to one end thereof, each of said levers having a seat member on its outer extremity and extending beyond the end of the handle bar, a bearing plate secured to the channel bar and partially closing the open side thereof, a clip embracing the levers and slidable thereon, a clip actuating bar connected at one end to said clip and confined by said bearing plate in the channel bar, and means on the actuating bar for manually engaging the same whereby it may be actuated.

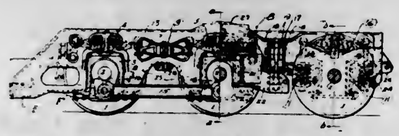
1,948,249
ELECTRICAL CONNECTER
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application April 22, 1933. Serial No. 667,397
5 Claims. (Cl. 173—322)

1. A terminal contact fitting for an insulated conductor cable, comprising a tubular body having an enlarged recess at its forward end, a cup of rigid material moulded in said body and having a cable-receiving opening in its bottom, a disc within and closing said recess, a contact element carried by said disc, and having means for



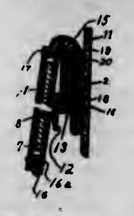
electrically connecting the conductor of the cable thereto, cable gripping means within said cup, a compression member between said disc and said gripping means, and means for forcing said disc rearwardly toward said cup to actuate said gripping means into engagement with the cable.

1,948,250
RAILWAY TRUCK
Adelbert C. Wintemberg, St. Louis, Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application February 11, 1928. Serial No. 253,659
13 Claims. (Cl. 105—196)



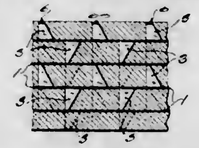
1. In a truck frame, wheel pieces provided with pedestals, spaced transoms located between said pedestals and connecting said wheel pieces, and an end rail at the level of the lower portions of said pedestals provided with a seat for a booster motor, and a connection between said rail and said wheel pieces in addition to the connection afforded by the adjacent end pedestals.

1,948,251
TROUSERS SUPPORT
Admiral L. Andrews, Shawnee, Okla.
Application November 9, 1931. Serial No. 573,786
6 Claims. (Cl. 241—9)



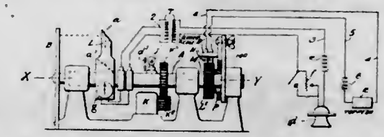
1. A device of the class described, embodying a pliable belt, means for adjustably connecting the ends of the belt together, a plurality of lateral pliable strips spacedly disposed on the outer face of said belt, means carried by said strips for preventing the belt from wrinkling laterally, a portion of each of said strips turned downwardly adjacent the upper edge of said belt to form tabs which are free to swing slightly longitudinally with respect to the belt, button attaching means including a button-hole carried by the tabs for removable connection to buttons sewed to the usual waist-band of trousers, and tongue means carried by each tab for preventing inadvertent removal of a button from said button attaching means.

1,948,252
SHEET PACKING
Claude B. Bailey, Wyandotte, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a corporation of Maine
Application July 18, 1931. Serial No. 551,664
1 Claim. (Cl. 154—45.5)



Sheet packing, comprising a plurality of superimposed layers of metallic and non-metallic material, said layers being arranged with the metal layers between the non-metallic layers and with the outer sides of the sheet formed by non-metallic layers, and a multiplicity of prongs struck out from the metal layers on opposite sides thereof and extending into the non-metallic layers for securing the layers together, the prongs on the outer sides of the outermost of the metal layers extending through the adjacent non-metallic layers and having their outer ends bent into clinching engagement with the outer surfaces of said non-metallic layers, the prongs on the other of the metal layers and on the inner sides of the outermost metal layers remaining in their initial struck out positions.

1,948,253
DEVICE FOR SOUNDING PURPOSES AND FOR MEASUREMENTS OF DISTANCE BY THE REFLECTED SOUND OF A SUBMARINE SIGNAL RECEIVED ON SHIPBOARD
André Eugène Blondel, Paris, France
Original application January 18, 1922, Serial No. 530,146, now abandoned, and in Germany June 27, 1921. Divided and this application May 3, 1928. Serial No. 274,862
10 Claims. (Cl. 177—386)

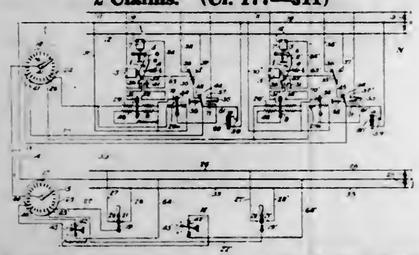


2. Distance measuring apparatus of the class described comprising in combination a sound emitter, a timing device causing repetition of the emitted sounds at uniform intervals, a circular translucent scale, a shaft rotating at constant speed, a galvanometer carried by said shaft, a microphone actuated by the emitted sounds and their echos thereby causing the galvanometer to throw luminous indicator flashes upon the scale thereby detecting the sounds and echos, an adjustable member associated with the timing device for permitting detections of said sounds and echos at coincident phases of the operation of the timing device thereby causing the luminous flashes produced by the emitted sounds and their echos to coincide on the scale, means for indicating and measuring the angular displacement of the adjustable member to produce such phase coincidence as a function of the distance to be measured.

1,948,254
SWITCH POSITION INDICATOR

Leo Brandenburger, Berlin-Halensee, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

Application March 5, 1929, Serial No. 344,549, and in Germany March 10, 1928
2 Claims. (Cl. 177—311)

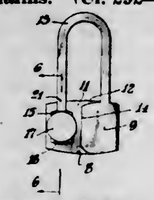


1. The combination of a sub-station having therein members each movable into two different positions, a main station from which said movable members are controlled, a signal line between the main and sub-stations, controlling devices at the main station corresponding to said movable members and each operative to send over said signal line an electrical controlling impulse for adjusting the position of the associated member, electromagnetically operated position indicating devices at said main station each operable to register the position of an associated member, return signalling devices in said sub-station controlled by said movable members and each operative through said signal line to actuate its associated indicating device in accordance with the position of the corresponding member, a distributor at the main station, a second distributor at the sub-station, said distributors being synchronously operated to connect selectively over said signal line the said controlling and indicating devices with their associated adjustable members and return signalling devices, means controlled by the control impulses and operative to cause each of the indicating devices to register the receipt of such impulses independently of the carrying out thereof, and mechanism for rendering said last-mentioned means inoperative upon operation of the indicating device thereby.

1,948,255
SEALING MEANS

Winfred M. Brooks, West Orange, N. J.

Application June 8, 1933. Serial No. 674,837
2 Claims. (Cl. 292—328)

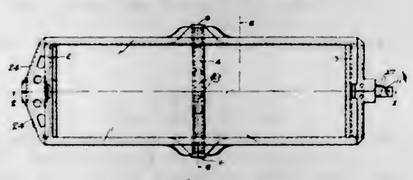


1. Sealing means including: a body of sheet material consisting of a main portion and a connected wing portion shorter in length than, and foldable over, said main portion, to thereby leave a part of the latter exposed, said wing portion having integrally formed therewith, at one of its side edges, a sheet material shank-member that extends first away from said side edge and then in a reverse direction back to a point in line with but beyond the free end edge of said wing portion, the free end of said shank-member overlying the exposed part of the main portion when the wing portion is folded over said main portion; and means to secure the exposed part of the main portion and the free end of the shank-member together when the wing portion has been folded over the main portion.

1,948,256
WAGON UNDERFRAME

Robert R. Cease, Nameoki, Ill., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application May 11, 1931. Serial No. 536,616
5 Claims. (Cl. 280—106)

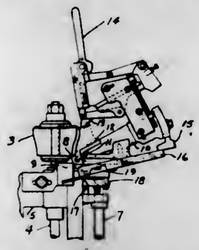


1. A vehicle underframe consisting of a one-piece structure including side sills, end sills, and a single central bolster having integral depending legs adapted to mount supporting axle elements, said sills being enlarged adjacent to said bolster to form reinforcing gussets connecting the lower portions of said legs with said side sills.

1,948,257
GUIDE TRACK FOR WOOD HEEL TURNING MACHINES

George Clausing, Portsmouth, Ohio, assignor to The Vulcan Corporation, Portsmouth, Ohio, a corporation of Ohio

Application October 9, 1931. Serial No. 567,933
17 Claims. (Cl. 12—87)



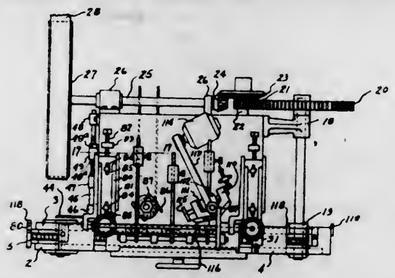
1. In a machine of the character specified having a rotary cutter and a blank holder arranged to be swung into different positions relative to said cutter, a guiding track for said blank holder, and mounting means movable relatively to said track comprising a wedge adjustable to hold the track in different guiding positions.

1,948,258
MACHINE FOR MANUFACTURING HEELS FOR SHOES

George Clausing, Portsmouth, Ohio, assignor to The Vulcan Corporation, Portsmouth, Ohio, a corporation of Ohio

Application August 10, 1932. Serial No. 628,217
14 Claims. (Cl. 12—47.1)

5. A heel grooving machine having in combination a concaving cutter, means to advance a heel blank in a straight path into engagement with the cutter, and means to move the cutter to and

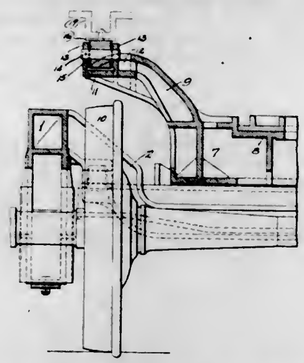


from the path of movement of the blank along a line perpendicular to the surface which it cuts.

1,948,259
RAILWAY VEHICLE STRUCTURE

George Fred Driemeyer, Paris, France, assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application July 3, 1931. Serial No. 548,522
2 Claims. (Cl. 105—196)



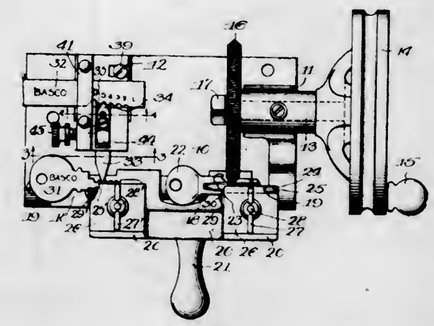
1. A railway truck bolster having a pocket formed therein, and side bearing members located in said pocket and formed integral with said bolster, said side bearing members being adapted to support an anti-friction element, said pocket also being adapted for mounting separately formed side bearing members when said integral side bearing members are machined off.

1,948,260
KEY CUTTING MACHINE

Frederick E. Fowler, Detroit, Mich., assignor to F. W. Stewart Manufacturing Company, a corporation of Illinois

Application February 11, 1933. Serial No. 656,281
16 Claims. (Cl. 90—13.2)

1. In a key cutting machine, a base, a movable frame supported thereby and having a pair of vises thereon for holding a spacer and a key blank, a cutting tool mounted on said base toward which said frame is moved to cut said blank, a stop mounted on said base and with respect to which said frame is moved back and forth to determine the location only of the cuts lengthwise of said key blank and positioned to be engaged by said spacer during movement of said frame toward said cutting tool to limit the depth of the cut, at the desired point on said key blank, and means for adjusting the position of said stop to



provide for cuts of different depths in the same key blank.

1,948,261
LUMINOUS ELECTRIC DISCHARGE TUBE

Victor James Francis, Wembley, and John Walter Ryde, London, England, assignors to General Electric Company, a corporation of New York

Application July 11, 1933, Serial No. 679,922, and in Great Britain July 1, 1932
6 Claims. (Cl. 176—122)



1. A luminous electric discharge tube provided with a filling including a metal vapour and operating with a "high pressure" discharge comprising a cylindrical envelope with substantially hemispherical ends, thermionic electrodes, and electrode support wires distorted along the length thereof so as to bring said electrodes close to the end walls of said envelope.

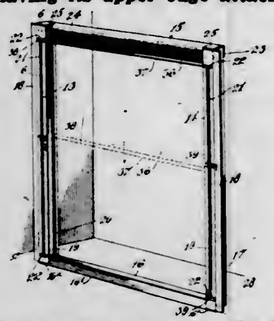
1,948,262
WINDOW SCREEN

Gustave O. Gabriel, Newark, N. J.

Application November 29, 1932
Serial No. 644,762
5 Claims. (Cl. 156—39)

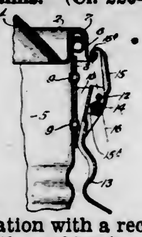
3. In a window screen device, a frame having a pair of tubular side members, bearings attached to the upper and lower ends of the side members, a shaft rotatably supported by the upper bearings, stub shafts rotatably supported by the lower bearings, sprockets carried by said shaft and stub shafts, endless chains positioned within the tu-

bular side members and engaging the sprockets, a screen having its upper edge attached to the



shaft, and means for connecting the lower edge of the screen to the chains.

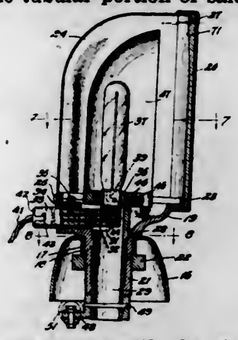
1,948,263
CONTAINER CLOSURE
Lee B. Green, Lakewood, Ohio, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio, a corporation of Ohio
Application January 8, 1931, Serial No. 507,338
Renewed January 10, 1934
3 Claims. (Cl. 220—55)



1. The combination with a receptacle, of a cover for the mouth thereof having its marginal portion provided with a depending flange located at the outer side of the receptacle, said flange being provided with an outturned and upturned portion forming with the depending flange an open trough of which the outturned portion constitutes the bottom and the upturned portion forms the outer wall, and means for attaching the cover to the receptacle, said attaching means including an upstanding hook having an inturned and downturned end that extends over the said outer trough wall and bears upon the bottom of said trough, and means connecting the hook to the receptacle to draw said end downwardly upon said bottom, said means permitting the lateral movement of the hook to pass over the outer trough wall.

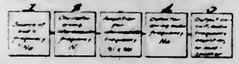
1,948,264
HEADLIGHT CONSTRUCTION
Martin R. Hoag, Chicago, Ill.
Application August 9, 1933. Serial No. 684,374
3 Claims. (Cl. 240—8.25)

1. A headlight for automobiles and the like having a steering mechanism, comprising a support, a bracket having a depending tubular stud portion fixedly mounted in said support, a hood member carried by said bracket and open at the front, a lens disposed in the open front of said hood, a sleeve rotatably mounted in the tubular portion of said bracket and provided with a cut away portion adjacent to the upper end thereof, a reflector fixed to the upper end of said sleeve, a lamp socket carried by said bracket and extending through the cut away portion of said tubular member, a lamp carried by said socket in axial alinement with said tubular member, and means fixed to the lower end of said sleeve beneath the tubular portion of said bracket and



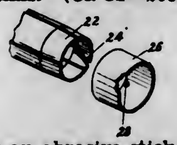
operatively connected with the steering mechanism for rotating said sleeve and the reflector carried thereby, to vary the direction of the light rays reflected through said lens.

1,948,265
SYSTEM FOR AMPLIFICATION
Lewis M. Hull, Boonton, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application June 14, 1926. Serial No. 115,929
4 Claims. (Cl. 250—20)



1. An electrical circuit for amplifying audio frequency currents at intermediate frequencies comprising, in combination, a source of audio frequency currents to be amplified; a local source of currents having a fixed intermediate frequency; means whereby said audio frequency currents are caused to modulate said local intermediate frequency currents; a balanced and substantially unidirectional amplifier for said modulated intermediate frequency currents; a detector for said amplified intermediate frequency currents; a second local source of currents having a different fixed intermediate frequency; means whereby said detected currents are caused to modulate said second local source of intermediate frequency currents; a second balanced and substantially unidirectional amplifier for said second modulated intermediate frequency currents; and a second detector for said last mentioned amplified intermediate frequency currents.

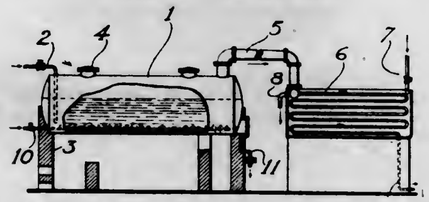
1,948,266
ABRASIVE STICK HOLDER
Samuel Mark Hershey, Bala, Pa., assignor to Albert P. De Sanno, Sr., Philadelphia, Pa.
Application July 28, 1932. Serial No. 625,297
2 Claims. (Cl. 51—206)



1. A holder for an abrasive stick comprising a hollow supporting member terminating in a tapered end portion, said member being longitudinally slitted whereby to render it compressible and said tapered end portion having a bayonet slot therein, and means fitted over said tapered

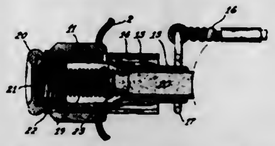
end portion for compressing said tapered end to retain an abrasive stick therein, said means including an element adapted to cooperate with said bayonet slot to retain said means fitted over said tapered end.

1,948,267
PROCESS OF INCORPORATING OIL AND RESINOUS BODIES
Marion B. Hopkins, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 15, 1927. Serial No. 205,873
9 Claims. (Cl. 134—26)



1. The process of incorporating resins in petroleum oil, which comprises heating the oil and resins to a temperature above that at which steam condenses, under substantially non-oxidizing conditions, passing steam through the mixture and maintaining steam over the surface of the mixture under non-condensing conditions until the resins are completely dissolved in the oil.

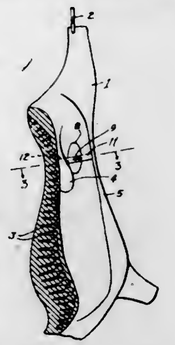
1,948,268
MOTOR BRUSH
William H. Kitto, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application August 20, 1932. Serial No. 629,676
1 Claim. (Cl. 171—324)



An electric motor brush mounting construction including a brush holder open at its ends, removable closure means closing one end of said holder, a current-carrying brush slidably positioned in said holder and extended from the other end thereof, a spiral spring extending between said closure means and said brush exerting a force to urge said brush through said holder, said spring being formed to extend to a greater-than-normal diameter at one point, and means on said holder extended inwardly to contact said spring at said point to limit its movement in said holder, said spring being of such length from said point to said brush that it does not extend beyond the end of said brush holder.

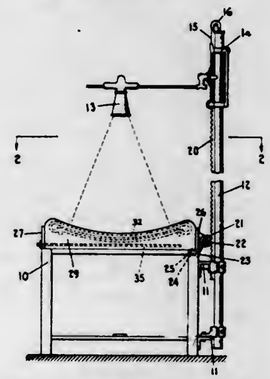
1,948,269
DEVICE FOR PREVENTING DISTORTION OF BEEF CARCASSES
Robert P. Lamont, Jr., Larkspur, Colo.
Application January 5, 1933. Serial No. 650,234
5 Claims. (Cl. 17—44)

1. A device for preventing distortion of a beef carcass comprising a base, oppositely extending members pivoted to the base, the ends of said members adapted to abut the carcass at locations near the backbone and flank respectively, said



base and members having a shape to conform to the normal interior contour of the carcass.

1,948,270
VARIABLE SCREEN FOR USE WITH X-RAYS
Frank Liberson, Brooklyn, N. Y.
Application December 4, 1930. Serial No. 499,902
8 Claims. (Cl. 250—34)

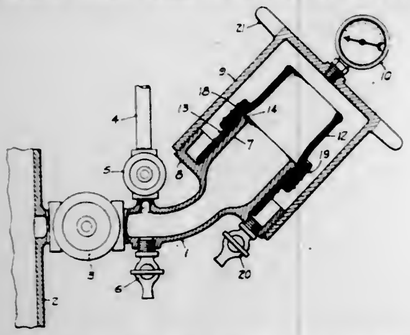


1. An X-ray apparatus comprising a screen, means to adjustably mount the same for varying its curvature, an X-ray emitting member associated with the screen to project rays therethrough, means to adjust the focal distance of said member relatively to said screen, and means connecting the focal-distance-adjusting means with the screen-mounting means whereby the curvature of the screen will be adjusted upon movement of the X-ray emitting member to conform to its position.

1,948,271
INOCULATING DEVICE
James F. Loughlin, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 13, 1932. Serial No. 628,651
6 Claims. (Cl. 23—252)

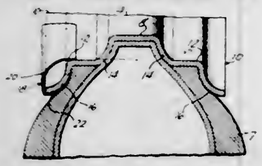
1. An inoculating device which comprises a receptacle having a base, a tubular member on the base having an extension projecting into the enclosure of said receptacle and forming a communication between said enclosure and a container for material which is to be inoculated, a

removable closure for retaining contents of the receptacle under pressure, means for supplying



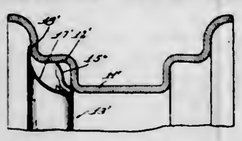
sterilizing material, and means for venting said tubular member and receptacle.

1,948,272
RING CONSTRUCTION FOR ORNAMENTING RIMS
George Albert Lyon, Allenhurst, N. J.
Application January 15, 1932. Serial No. 586,913
7 Claims. (Cl. 41—10)



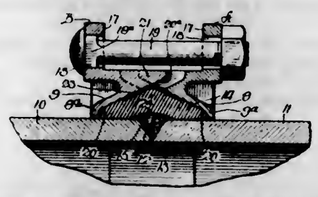
1. A construction for ornamenting rims comprising a ring having spaced inner and outer flanges arranged to embrace the marginal portion of a rim flange, the outer flange of the ring being wider than the inner flange and having its inner margin arranged to engage the rim flange at some distance from the margin of the latter to hold the ring from being thrown from the rim by centrifugal force.

1,948,273
ORNAMENTAL BEAD AND METHOD OF APPLYING SAME TO A WHEEL RIM
George Albert Lyon, Allenhurst, N. J.
Application October 3, 1932. Serial No. 635,932
11 Claims. (Cl. 41—10)



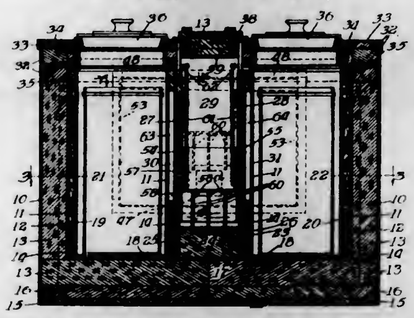
1. The combination of a wheel rim of an ornamental bead therefor of curved cross section and having tight cooperation with the rim solely by its engagement with the rim, said bead including a normally concealed marginal portion for resiliently engaging said rim, and an outer marginal portion having its edge slightly spaced from the rim so as not to interfere with the flexing of said concealed marginal portion into engagement with the rim, said concealed marginal portion including means for biting into the adjoining surface of the rim actuated by the resiliency of the bead.

1,948,274
PIPE JOINT SEALING DEVICE
Frederick R. McMurray, South Bend, Ind., assignor to M. B. Skinner Co., South Bend, Ind., a corporation of Indiana
Application November 14, 1932
Serial No. 642,579
7 Claims. (Cl. 285—132)



6. A pipe clamp of the character described comprising two identical rings in facing relation to each other and having their meeting edge portions respectively formed with interfitting projections and recesses providing for the telescopic movement of the rings in directions toward and away from each other while remaining in facing relation with each other, said rings, including said projections, being formed with inner surfaces providing an annular seat for a gasket, with means for forcing the rings toward each other.

1,948,275
REFRIGERATING APPARATUS
Benjamin Miller, Chicago, Ill.
Application January 6, 1933. Serial No. 650,404
17 Claims. (Cl. 62—91.5)

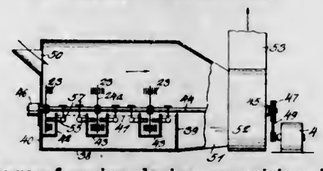


1. In a refrigerator the combination of a cooling compartment and a movable refrigerant carrier, the refrigerant carrier being suspended in said compartment, an opening in a wall of the compartment, said opening being controlled by the movement of said carrier.

1,948,276
PROCESS FOR INCREASING TENSILE STRENGTH OF CELLULOSE AND PRODUCT
August J. Pacini, Chicago, Ill., assignor to Miliprint Products Corporation, Milwaukee, Wis., a corporation of Wisconsin
No Drawing. Application May 4, 1931
Serial No. 535,086
5 Claims. (Cl. 8—20)

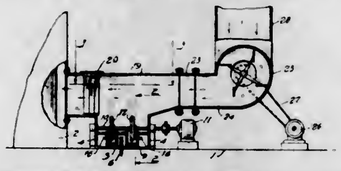
1. The process of imparting the property of increased tensile strength to cellulose, which consists in subjecting cellulose to the action of artificially produced ultra-violet radiation and controlling the action thereof to prevent the formation of detectable oxycellulose in said cellulose.

1,948,277
AIR CONDITIONER AND HUMIDIFIER
Raymond L. Payne and Glen E. Marica, Denver, Colo.
Application July 25, 1932. Serial No. 624,410
4 Claims. (Cl. 261—92)



2. A spray forming device comprising, in combination a tank adapted to contain a liquid, a horizontal shaft mounted for rotation, a disk-like member secured to the shaft so as to be rotated thereby, a trough located in the tank below the shaft and in the plane of the disk, the upper edge of the trough extending above the normal liquid level in the tank, the lower edge of the disk extending into the trough to a point below the normal liquid level in the tank, and controlled means communicating the tank and the trough, for conducting water from the tank to the trough and terminating in proximity to the disk at a point between the periphery and the axis, so that upon rotation of the disk, the liquid in the trough will be converted into spray and its normal level will be lowered to a point slightly above the lower periphery of the disk and water will be delivered at a controlled rate against the disk at a point substantially above the lower edge thereof.

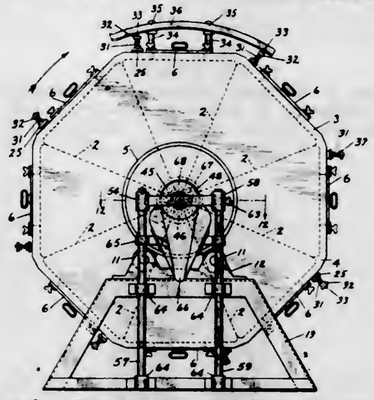
1,948,278
SPRAY FORMING AND AIR CONDITIONING DEVICE
Raymond L. Payne and Glen E. Marica, Denver, Colo.
Application February 20, 1933. Serial No. 657,500
10 Claims. (Cl. 261—92)



1. A humidifier and air conditioner comprising, in combination, a pan adapted to contain water, a housing for the top of the pan, a trough extending transversely of the pan, a shaft extending across the trough and mounted for rotation, a water distributing wheel secured to the shaft to rotate therewith and extending into the trough, said wheel having a hollow rim provided with openings, and means for delivering water from the pan to the inside of the rim whereby when the wheel is rotated, the water will be moved against the inside of the rim and forced through the openings therein by the action of the centrifugal force.

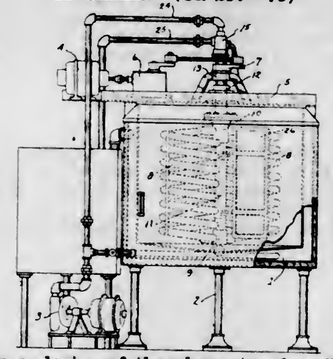
1,948,279
PASTEURIZING HOLDER
William F. Schildman, Cincinnati, Ohio, assignor to American Copper & Brass Works, Cincinnati, Ohio, a corporation of Ohio
Application May 15, 1931. Serial No. 537,699
14 Claims. (Cl. 137—21)

1. In apparatus of the character described, a rotary structure comprising a series of radially arranged compartments each having a port near its radially inner end and vent means for inlet and outlet of air near its radially outer end, inlet means and outlet means alternately connecting with said ports incident to rotation of said struc-



ture, and means separate and distinct from said inlet and outlet means, whereby said vent means are opened during the periods of connection of the respective ports and closed between said periods.

1,948,280
MILK PROCESSING MACHINE
William F. Schildman, Cincinnati, Ohio, assignor to American Copper & Brass Works, Cincinnati, Ohio, a corporation of Ohio
Application November 12, 1931
Serial No. 574,667
11 Claims. (Cl. 257—78)



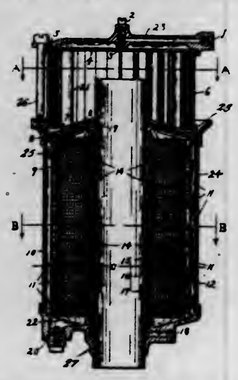
3. In a device of the character described, the combination with a receptacle, of a plurality of helical coils therein located on a plurality of spaced vertical axes, means for passing fluid through said coils, and means for oscillating said coils to and fro around a common axis within the receptacle.

1,948,281
PROCESS FOR DECOLORIZING ESTERS
Franklin D. Smith, Kirkwood, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application July 30, 1932
Serial No. 627,136
3 Claims. (Cl. 260—103)

1. The method of refining liquid alkyl esters derived from acids produced by the catalytic air oxidation of aromatic hydrocarbons whereby dis-

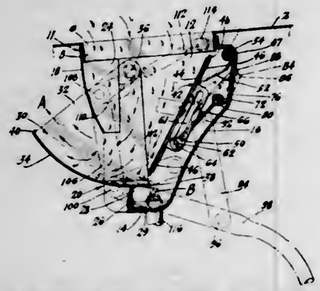
tillation of the ester is rendered unnecessary and the color and cast of the ester is improved, which comprises exposing said ester to the action of ultraviolet light.

1,948,282
FLUID PURIFIER
Charles A. Winslow, Vallejo, Calif., assignor to Catherine B. Winslow, Oakland, Calif.
Application March 21, 1927. Serial No. 177,183
8 Claims. (Cl. 123—196)



1. A fluid purifier comprising a casing having inlet and outlet passages for liquids and gases, a filtering element through which gas is adapted to pass, means for delivering oil to said filtering element for removing the impurities from the gas passing through the filtering element and causing an evaporation of the fluid impurities from the oil, a series of louvres located within the compass of the filtering element to cause the gas to assume a high velocity rotary movement, thereby separating said oil and gas.

1,948,283
COWL VENTILATOR DOOR
Joseph Boca, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 7, 1932. Serial No. 636,702
7 Claims. (Cl. 98—2)



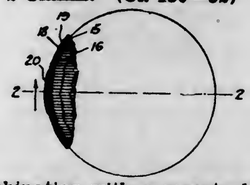
1. In a ventilator having an opening, a door for closing the ventilator opening, means for opening and closing the door, means for directing the flow of air entering the opening, said means including a movable member capable of allowing a direct flow of air from the opening through the said means or to divert the air out of the path of direct flow, and single means for operating both said means.

1,948,284
GOLF TEE HOLDER AND CARRIER
August H. Breitbarth, Valparaiso, Ind.
Application April 20, 1932. Serial No. 606,437
2 Claims. (Cl. 273—33)



1. A self-contained golf tee support and carrier comprising a supporting stem of an approximate length to reach from the user's hands to the ground while the player is standing, a knob or handle at its one end and a taper formed at the other end, a spring clip on the stem below the knob, a sleeve on the stem above the tapered end adapted to rotate freely around the stem, a carrier projection from the sleeve terminating in a loop to hold a golf ball, means for pivoting the carrier to the sleeve whereby it may be raised upward into a position adjacent the stem, and means for holding the carrier in its lowered or raised position said means comprising two flattened faces of the carrier adjacent its pivot cooperating with a flat spring whose ends are held against movement in the sleeve.

1,948,285
COVER FOR RECEPTACLES
Mauro Brescia, New York, N. Y.
Application April 15, 1932. Serial No. 605,405
2 Claims. (Cl. 150—52)



1. In combination with a receptacle composed of hinged cup-shaped members, a removable cover over each member consisting of rows of beads adjacent its edges and corners, and rows of bugles connecting the said rows of beads.

1,948,286
PROCESS FOR OBTAINING SECONDARY ALCOHOLS FROM ACID LIQUORS FORMED BY TREATING OLEFINES WITH SULPHURIC ACID
Benjamin T. Brooks, Greenwich, Conn., assignor, by mesne assignments, to Standard Alcohol Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 3, 1932
Serial No. 609,036
4 Claims. (Cl. 260—156)

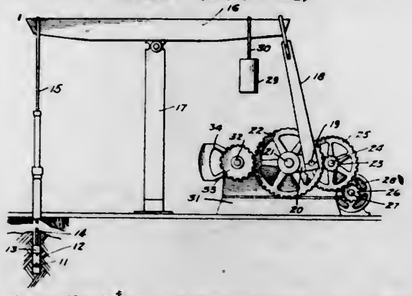
1. Process of obtaining secondary alcohols of from 3 to 6 carbon atoms to the molecule from

acid reaction products formed by treating olefines with aqueous sulphuric acid, which comprises diluting an acid reaction product with water, permitting the diluted reaction product to stratify, thereby forming an aqueous layer and a layer consisting predominantly of hydrocarbons, separating the said hydrocarbon layer from the said aqueous layer, washing the said hydrocarbon layer with dilute aqueous sulphuric acid, thereby producing an aqueous sulphuric acid containing secondary alcohol in solution and hydrocarbon material substantially free from secondary alcohol, separating said aqueous sulphuric acid containing secondary alcohol in solution, and recovering the secondary alcohol therefrom.

1,948,287
PRODUCTION OF ALKYL PHENOLS
Hyym E. Buc, Roselle, and Reuben Schuler, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application June 16, 1932
Serial No. 617,603
12 Claims. (Cl. 260—154)

1. Improved process for obtaining valuable derivatives from phenols comprising bringing a mixture of a phenol and a compound selected from the class consisting of secondary and tertiary alcohols and olefines of more than 2 carbon atoms slowly into contact with strong sulfuric acid, forming a reaction product containing sulfonated alkyl phenolic derivatives, and subsequently converting said sulfonated phenolic derivatives into the corresponding phenolic derivatives and sulfuric acid.

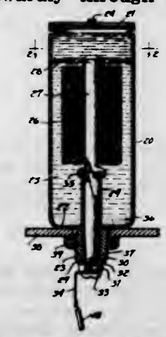
1,948,288
METHOD AND MEANS OF COUNTERBALANCING
William G. Corey, Los Angeles, Calif.
Application July 30, 1932. Serial No. 626,313
9 Claims. (Cl. 74—14)



1. A method of counterbalancing an unbalanced reciprocating load which consists in providing constantly rotating drive means therefor, applying a fixed counterweight tending to offset the unbalanced reciprocating load and applying a rotary unbalanced counterweight geared to the driving means to rotate a plurality of turns to each rotation of the driving means and in synchronism therewith, whereby the torque power demand made upon the driving means by the reciprocating load will be substantially uniform.

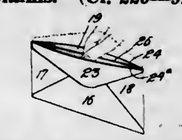
1,948,289
ELECTROLYTIC CONDENSER
Harold I. Danziger, New York, N. Y., assignor to Condenser Corporation of America, Jersey City, N. J., a corporation of New York
Application March 28, 1930. Serial No. 439,578
13 Claims. (Cl. 175—315)

1. In an electrolytic condenser, a container of conducting material adapted to serve as one terminal of the condenser and having top and bottom walls, the top wall having a vent therein and the bottom wall having an aperture therein, an electrode in said container and adapted to serve as a complementary terminal of the condenser, a rod supporting said electrode and extending downwardly through said aperture, a



liquid electrolyte in said container and completely submersing said electrode, and means for making the joint between said rod and aperture liquid-tight; said means comprising a depending neck on said bottom wall and snugly encircling said rod, and means for squeezing said neck around said rod.

1,948,290
ENVELOPE
Harold B. Dygert, Roselle Park, N. J., and Lyne S. Metcalfe, Scarsdale, N. Y.
Application August 11, 1932. Serial No. 628,338
5 Claims. (Cl. 229—92.7)

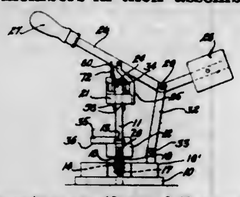


1. An envelope of the class described, comprising a body portion, end and side flaps on certain edges thereof, and a plurality of fold-connected sections, at least four in number or a greater even number of sections, connected by a fold with another edge of the body portion, the sections arranged in sequence and the folds alternately in opposite directions to constitute accordion folds, and a flap foldably connected with the outermost section, the flaps being mutually sealed together with the exception of one of them which is left open, and the envelope being open at an edge parallel with the folds of the sections, at which open edge one of the intermediate foods of the sections is exposed for a possible withdrawal thereby of the fold-connected sections from the envelope when all its flaps are sealed, whereby to permit exposing for the inspection of both sides of all the sections, which may be reinserted to their original position without breaking the seals.

1,948,291
APPARATUS FOR GAUGING MEMBERS FOR ASSEMBLAGE
Fred Freyman, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 8, 1927. Serial No. 231,799
4 Claims. (Cl. 33—180)

1. In an apparatus for gaging interfitable members while in an assembled relation, means

for supporting the members, means associated with said supporting means for clamping certain of the members in their assembled relation,



means for moving another of the members relative to the clamped members, and means for measuring the extent of movability of the moved member relative to the clamped members.

1,948,292

PROTECTIVE COATING AND PROCESS FOR MAKING AND APPLYING THE SAME

William C. Geer, Ithaca, N. Y.

No Drawing. Application January 31, 1933, Serial No. 654,457, and in Canada July 3, 1928

67 Claims. (Cl. 91—68)

20. In the production of golf balls having a rubber surface, the step of subjecting the surface of the golf ball to a treatment with an anhydrous halide of an amphoteric element.

36. In the preparation of rubber surfaces, the step comprising subjecting the rubber surface to treatment with a solution of an anhydrous halide of an amphoteric element in a mixture of normal butyl alcohol and α-chloronaphthalene.

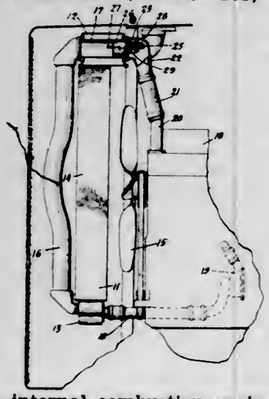
1,948,293

THERMOSTATICALLY REGULATED CIRCULATING SYSTEM

Walter A. Geise, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application June 27, 1932. Serial No. 619,400

3 Claims. (Cl. 123—178)



1. In an internal combustion engine in which there is provided a cooling liquid circuit which includes a cooling liquid jacket, a liquid cooling radiator and a radiator by-passage: a thermostatically operated valve which tends to open as the temperature of the cooling liquid is increased to regulate the flow of cooling liquid through the radiator, and an independently thermostatically operated valve which tends to close as the temperature of the cooling liquid is increased to regulate the flow of cooling liquid through the by-passage.

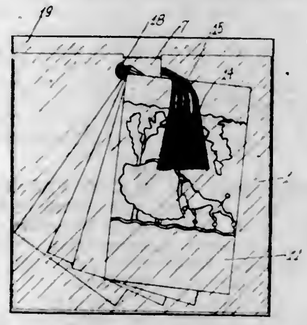
1,948,294

PACKAGE FOR THE PRESERVATION AND DISPLAY OF GAME SETS AND THE LIKE

James R. Gibson, Cincinnati, Ohio

Application August 12, 1932. Serial No. 628,563

4 Claims. (Cl. 206—46)



1. A composite package comprising a scoring card in the form of a folder, a plurality of tallies of lesser size and arranged thereon, said tallies having cords attached thereto and means on said scoring card to engage and hold said cords, and a transparent wrapper enclosing said elements.

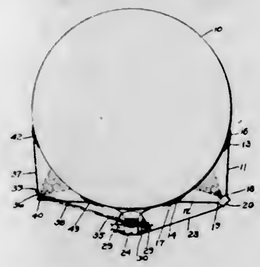
1,948,295

AERIAL DISPLAY

Harry H. Haines and Karl L. Lange, Akron, Ohio, assignors to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

Application April 25, 1931. Serial No. 532,853

2 Claims. (Cl. 40—127)



1. In an aircraft having a pilot car thereon, outriggers secured to the opposite sides of the aircraft and independent of the pilot car, means secured to the outriggers for transmitting luminous images to the aircraft surface, and means in the pilot car for controlling transmission of said images to the aircraft surface.

1,948,296

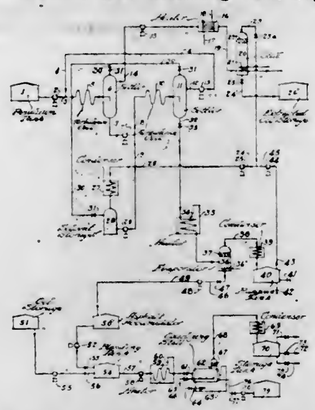
METHOD FOR PRODUCING ASPHALT

Robert E. Haylett, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application July 7, 1930. Serial No. 466,101

9 Claims. (Cl. 196—74)

8. A method for producing wax free blended asphalt from an oil containing asphalt and wax which comprises commingling said oil with a liquefied normally gaseous hydrocarbon to separate asphalt from the oil and wax dissolved in said solvent, removing the asphalt from the oil, wax and solvent and blending said separated



asphalt with oil to produce wax free blended asphalt.

1,948,297

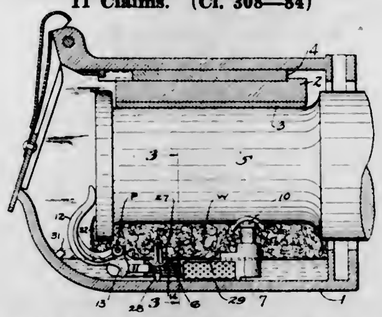
RAILWAY JOURNAL LUBRICATOR

James J. Hennessy, New York, N. Y.

Application November 18, 1931

Serial No. 575,768

11 Claims. (Cl. 308—84)



1. In a railway journal lubricator, a body portion adapted to rest on the bottom of a journal box and including a pump cylinder, a piston therein, a lubricant receiving chamber above the level of said cylinder, a vertically disposed discharge chamber adjacent the end of said cylinder, a downwardly inclined passageway leading from said elevated chamber to the lower portion of said discharge chamber, a discharge sleeve telescopingly mounted in said discharge chamber, and a discharge cup carried by said sleeve.

1,948,298

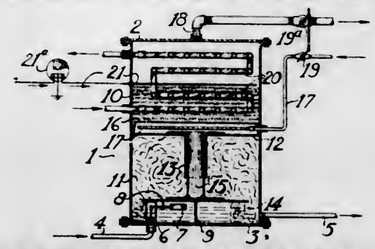
APPARATUS FOR CATALYTIC HEATING

Frank A. Howard, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Original application July 24, 1929, Serial No. 380,589. Divided and this application October 3, 1931. Serial No. 566,649

6 Claims. (Cl. 158—96)

1. A heating device comprising a fuel receptacle, a chamber, a wick holder communicating with the receptacle and chamber, a wick disposed in said wick holder the receptacle having oppositely disposed inlet and outlet openings adapted for the passage at a constant level of volatile liquid fuel therethrough, a fibrous material in the receptacle in contact with the volatile liquid



fuel and the wick and a catalytic body in the chamber.

1,948,299

DERIVATIVES OF MONTANE

Michael Jahrstorfer and Hans Georg Hummel, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengeselischaft, Frankfort-on-the-Main, Germany

No Drawing. Application July 25, 1931, Serial No. 553,231, and in Germany August 2, 1930

13 Claims. (Cl. 260—98)

1. The process for the production of dispersing agents which comprises acting with a sulphonating agent on a derivative of montane.

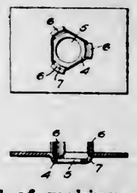
1,948,300

METHOD OF MAKING FASTENER SOCKETS

Gustav Johnson, West Roxbury, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application April 21, 1932. Serial No. 606,641

5 Claims. (Cl. 153—2)



1. The method of making a spring-retaining socket member having a stud-receiving aperture and means for holding a stud-engaging spring which comprises forming a stud-receiving aperture in the socket member, also forming a series of apertures around said stud-receiving aperture by pressing out the spring-holding means from the socket member and then moving the material laterally in the plane thereof between the stud-receiving aperture and the series of apertures to increase the size of the stud-receiving aperture.

1,948,301

SLIDE FASTENER

Gustav Johnson, West Roxbury, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application July 1, 1932. Serial No. 620,409

4 Claims. (Cl. 24—77)

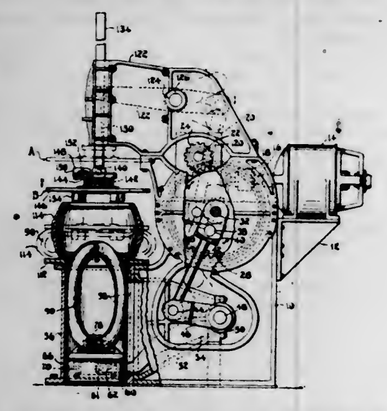
1. A slide socket member of a snap fastener having a plate portion, a boss portion pressed out of the material of said plate portion, said boss portion being open to provide a stud-receiving aperture and being divided by a number of slits into a number of relatively yieldable portions and a relatively rigid portion for engagement with a cooperating stud, said plate portion hav-

ing strap-receiving slots located at opposite sides of said boss portion, and said rigid portion be-



ing located adjacent to one of the slots to withstand bending stress exerted toward said slot.

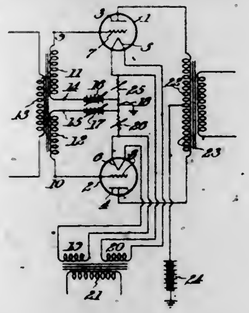
1,948,302
MACHINE FOR SHAPING TIRES AND INSERTING AIRBAGS
Raphael S. Kirk, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application April 9, 1930. Serial No. 442,972
7 Claims. (Cl. 18—2)



1. A machine for simultaneously shaping pneumatic tire bands and inserting airbags therein, comprising a driving motor having a projecting shaft, a speed reduction mechanism connected to the shaft, a pair of transversely extending driving shafts projecting from the sides of the speed reducing mechanism and having pinions mounted thereon, gears engaging the pinions, the relative sizes of the gears and pinions being such that one of the gears is rotated twice as rapidly as the other, a crank pin secured to each of the gears, a pitman rod connected to each of the crank pins, pivotally mounted levers connected to the pitman rods, a piston operable by one of said levers, a cylinder arranged substantially coaxially with respect to said piston, a second piston mounted in said cylinder and operable by the other of said levers, means for supporting a tire band on said cylinder, means for supporting an airbag on said second piston, and means for operating said motor to move said first mentioned piston into contact with said tire band to assist in shaping the latter and for moving said second piston toward said first mentioned piston to move said airbag into said tire band.

1,948,303
BALANCED AMPLIFIER
Stephen D. Lavoie, Long Island City, N. Y.
Application April 2, 1931. Serial No. 527,329
8 Claims. (Cl. 179—171)

1. In the operation of a balanced amplifier of the type including two thermionic tubes connected in phase opposition as regards an alternating current potential to be amplified, the method of compensating for variations in the operating characteristics of the two tubes which



comprises adjusting the bias potentials on the grids of the respective tubes to balance the amplifier for input signal voltages of two different magnitudes.

1,948,304
ELASTIC WHEEL
Elov F. Maas, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application September 14, 1929
Serial No. 392,579
7 Claims. (Cl. 152—36)



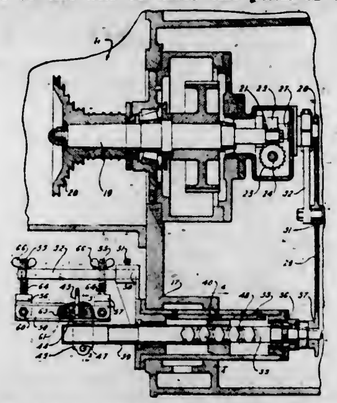
2. An elastic wheel, comprising a hub member and a rim member, having the outer surface of the hub member and the inner surface of the rim member similarly inclined with respect to the plane of the wheel, and elastic material interposed between said surfaces of said members and united to said members, and substantially free from initial strains.

1,948,305
APPARATUS FOR HANDLING MATERIAL
Edwin J. McIlvried, Akron, Ohio, assignor, by mesne assignments, to Electrical Research Products Inc., New York, N. Y., a corporation of Delaware
Application April 2, 1930. Serial No. 440,927
6 Claims. (Cl. 242—158)

1. In a strand distributing apparatus including a reel, a movable distributing finger for the strand, means to move the finger, a track for defining the path of the finger, a bar for supporting the track, a support for the finger having a roller engaging the track and threaded

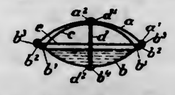
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means for adjusting the track angularly with respect to the bar to alter the path of the dis-



tributing finger to accord with the size of the reel.

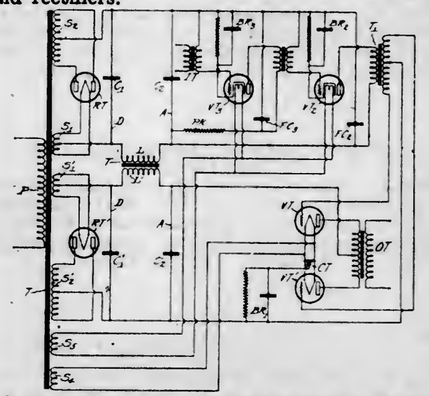
1,948,306
LIQUID SPRAYER
Nikolaus Meurer, Cologne, Germany
Application September 15, 1930, Serial No. 482,104, and in Germany August 4, 1930
12 Claims. (Cl. 299—90)



2. A receptacle adapted to hold a small amount of a substance, especially a liquid one, to be ejected out of the receptacle in the form of a jet, and consisting of a material impermeable to liquids and comprising a hollow body, composed of two basin-like shallow parts placed upon one another at their rims and being there tightly connected with one another so as to permit said body to be collapsed into a relatively thin solid shape in order to eject thereby the respective substance in the form stated; a pricking member formed by a piece of rigid wire having a head at one end and being pointed at the other end, and a holder therefor connected with the hollow body and holding said pricking member with its pointed end opposite the body wall and its head in position for engagement with a source of pressure, this latter having, prior to being pierced by the said pricking member when this is being operated, no externally visible aperture, nor a filling aperture.

1,948,307
ELECTRICAL RECTIFYING AND FILTERING SYSTEM
Benjamin F. Miessner, Short Hills, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application November 7, 1929. Serial No. 405,320
11 Claims. (Cl. 250—27)

1. In an amplifier system the combination of a series of cascaded amplifier tubes, a source of alternating current energy, a plurality of rectifiers coupled to said source, filter systems for each of said rectifiers, means coupling said filter systems for the neutralization of the rippling components of current output of each of said rectifiers and connections for energizing some of the tubes of said cascade from one of said rectifiers and for energizing others of said tubes from another of said rectifiers.

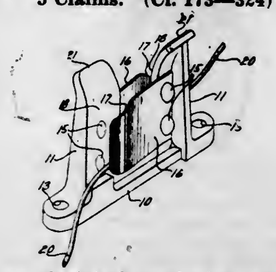


3. In a signal receiving system, an electron tube amplifier, an alternating current power supply line, independent rectifier circuits connected with said power supply line, separate filter circuits connected with said independent rectifier circuits, a load circuit, connections between one of said filter circuits with said load circuit, independent connections between the other of said filter circuits and the power circuits of said electron tube amplifier, and means interconnecting said filter circuits for opposing the effects of energy fluctuations in one filter circuit with the effects of energy fluctuations in the other filter circuit for eliminating the effects of power noises in the circuits of said electron tube amplifier.

1,948,308
METHOD OF MAKING MAGNETIC BODIES
Charles C. Neighbors, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application December 11, 1931
Serial No. 580,503
11 Claims. (Cl. 175—21)

1. A method of producing a magnetic body which consists of mixing finely divided dust particles with an insulating material including an organic acid, drying the mixture, mixing a second quantity of said insulating material with the resulting product and again drying the mixture.

1,948,309
ELECTRICAL CONDUCTOR CONTACT CLIP
Warren R. Neumann, Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 18, 1931. Serial No. 538,077
5 Claims. (Cl. 173—324)



1. In an electrical conductor contact clip, a support having spaced arms thereon, and a re-

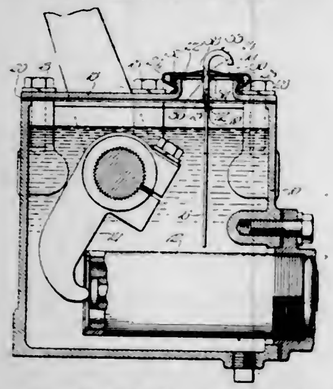
silient member secured to one arm having a free end edge thereof normally bearing against the other arm and adapted to receive therebetween an insulated electrical conductor and cooperating to displace the insulation thereof when the conductor is drawn therebetween for electrically connecting the conductor to the clip.

1,948,310

COMBINATION ULLAGE ROD AND VENTIDUCT

Wallace F. Oliver and Joseph R. Heidloff, Detroit, Mich., assignors to Hydraulic Brake Company, Los Angeles, Calif., a corporation of California

Application February 8, 1930. Serial No. 426,964
3 Claims. (Cl. 73—120)



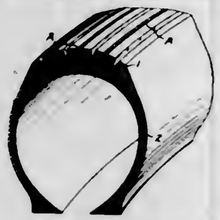
1. In combination, a fluid reservoir for a hydraulic braking system, a filling cap having an aperture therein, and a combination ullage rod and ventiduct positioned in said aperture in axial alignment therewith, comprising a tube having an arcuate bend in its external portion and a flattened out portion extending down inside the reservoir below the liquid level, and indicating means on the flattened portion, said tube having a vent opening therein above the liquid level.

1,948,311

VEHICLE TIRE

Clifford B. Orr, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application December 14, 1931
Serial No. 580,938
5 Claims. (Cl. 154—14)



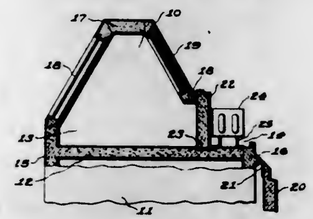
1. The method of assembling circumferential friction inserts to a tire tread having spaced circumferential grooves therein, which consists in passing a tire tread over a mandrel to widen said grooves and then feeding the inserts into said widened grooves, whereby, upon the tread leaving said mandrel the grooved side walls will grip the friction inserts.

1,948,312

REFRIGERATED DISPLAY CASE

Arthur V. Phillips, London, Ontario, Canada, assignor to Kelvinator Corporation, Detroit, Mich., a corporation of Michigan

Application October 2, 1930, Serial No. 485,956, and in Canada December 24, 1930
9 Claims. (Cl. 62—89.5)



1. A refrigerated display case comprising a compartment to be refrigerated, a refrigerating compartment in open communication therewith, said refrigerating compartment having a removable top wall and a hinged side wall, a refrigerant evaporator disposed in said refrigerating compartment, and means for thermally isolating the refrigerated compartment comprising closing the opening between it and the refrigerating compartment with the aforesaid removable top wall.

1,948,313

PROCESS FOR REMOVING WATER OF CRYSTALLIZATION FROM CRYSTALS AND/OR SOLIDS

Wilfrid Van Nest Powelson, New York, N. Y.

Application March 29, 1929. Serial No. 351,132
3 Claims. (Cl. 23—50)

1. A process for the removal of water of crystallization from a mass of solids having interstitial spaces and containing particles of a salt containing water of crystallization which consists of giving to said particles a temperature sufficiently high to cause them to liberate water of crystallization; and of at the same time causing said particles to be transported by causing them to become mixed with a gas having a greater avidity for moisture than that possessed by said particles and a velocity sufficiently high to give motion to said particles in the general direction in which said gas is moving; and of regulating and controlling the temperature and avidity for moisture of said gas while in a state of motion, to keep the particles at all times during the process from dissolving in the water liberated by them in changing from the crystalline form.

1,948,314

MANUFACTURE OF PAPER UTENSILS

Lester A. Pratt, Winchester, and George E. Gould, Melrose, Mass., assignors to Merrimac Chemical Company, Everett, Mass., a corporation of Massachusetts

No Drawing. Application May 6, 1931
Serial No. 535,556
6 Claims. (Cl. 18—47.5)

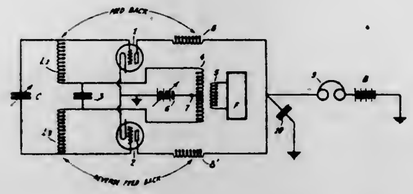
1. The method of manufacturing paper culinary utensils and the like which consists in rendering the paper relatively impervious to water by applying a coating composition dissolved in a volatile solvent to one surface of a fibrous paper base permitting the solvent to volatilize, softening the uncoated fibers of the base by means of water, subsequently cutting blank forms from such coated base, and finally shaping the forms.

1,948,315

SUPERREGENERATIVE RECEIVER

Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 12, 1931. Serial No. 543,925
16 Claims. (Cl. 250—20)



1. In combination, in a super-regenerative receiver, a pair of oppositely connected space discharge tubes having a common input and output circuit, a signal circuit, an interrupting frequency source, said signal circuit and source being differentially connected to the input circuit of said tubes, the common output circuit of said tubes being coupled to said signal circuit.

1,948,316

PROCESS OF REFINING COPPER

James Walter Scott, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application October 10, 1931
Serial No. 568,207
9 Claims. (Cl. 75—62)

1. A method of refining copper which consists of inductively heating and melting the copper, introducing a reducing agent of hydrogen under the surface of the molten copper to combine with the oxygen, and applying a vacuum of the order of 1 to 4 millimeters to promote reactions between the reducing agent and the oxygen to remove the oxygen from the copper.

1,948,317

VULCANIZATION ACCELERATOR

Lorin B. Sebrell and Albert M. Clifford, Akron, Ohio, assignors to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 4, 1931
Serial No. 535,096
21 Claims. (Cl. 18—53)

1. A method of treating rubber which comprises subjecting it to vulcanization in the presence of a material having the formula R—NH—X—NH—R_1, wherein the groups R, X and R_1 are aliphatic hydrocarbon residues, and wherein R and R_1 contain not less than two carbon atoms each.

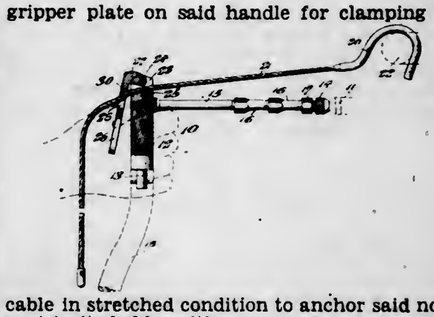
1,948,318

GREASE GUN ATTACHMENT

James J. Smith, Philadelphia, Pa.

Application August 18, 1931. Serial No. 557,827
2 Claims. (Cl. 184—105)

1. The combination of a grease gun discharge nozzle part arranged to be manually held against a fitting, a handle for said part, a cable, fastening means on said cable for engaging a fixed part with which said fitting is associated, and a gripper plate on said handle for clamping said



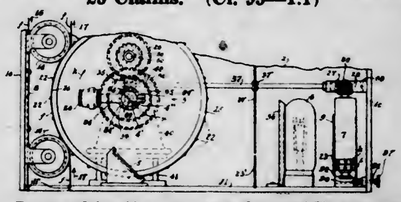
cable in stretched condition to anchor said nozzle part in its held position.

1,948,319

METHOD OF NUMBERING MOVING PICTURE FILMS AND APPARATUS THEREFOR

John L. Spence, Jr., New York, N. Y., assignor, by mesne assignments, to Remac Patents Corporation, New York, N. Y., a corporation of New York

Application October 20, 1931. Serial No. 569,980
25 Claims. (Cl. 95—1.1)



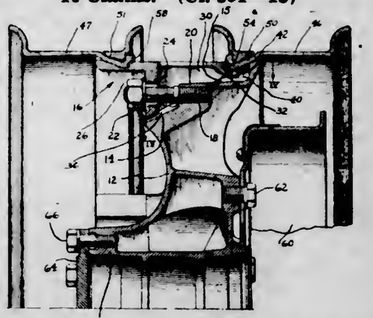
1. In combination, means for guiding movable film, said film having a continuously projecting margin; a counter having symbols thereon; means for focusing an image of said symbols on the margin and moving it with the film.

1,948,320

WHEEL ASSEMBLY

Joseph G. Swain, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

Application January 11, 1933. Serial No. 651,140
10 Claims. (Cl. 301—13)



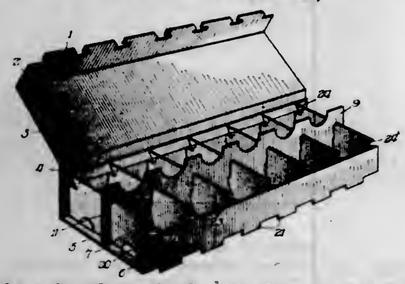
6. A wheel assembly including a hub having outwardly extending spokes, axially inclined seats on the ends of all of said spokes, beveled clamps on portions of each of said seats, means for axially adjusting the clamps on the seats, said seats and said clamps being independently adapted to support demountable tire rims, a rim supported solely on said clamps, and a second rim held on said seats by the clamps.

1,948,321
SNAP FASTENER SOCKET
Preston Upham, Brookline, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 13, 1932. Serial No. 604,967
5 Claims. (Cl. 24—217)



1. A snap fastener socket comprising a stud-engaging member having a support-engaging base of substantial area, a rigid peripheral wall formed integral with and extending from said support-engaging base at the outer periphery thereof and yieldable stud-engaging means extending directly from said support-engaging base independently of and in the same direction as said wall and spaced inwardly therefrom for engagement with a cooperating stud, and said stud-engaging means being protected from crushing by said peripheral wall.

1,948,322
EGG CARTON
John E. Walsh, Chicago, Ill., assignor to Self-Locking Carton Company, Chicago, Ill., a corporation of Illinois
Application April 2, 1932. Serial No. 602,659
1 Claim. (Cl. 229—29)

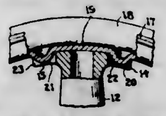


A carton formed of a blank cut, scored, and folded to form cover locking hooks, a cover locking strip, a cover, a rear wall, a bottom, a front wall of substantially less height than said rear wall, cross partitions, and a gluing strip, said gluing strip being folded over and secured to the rear wall, and said cross partitions being hinged to the front wall at a point intermediate their upper and lower portions, the upper portions of said partitions extending outwardly adjacent the plane of the front wall.

1,948,323
MEDIA FOR REGENERATING VISCOSE
William D. Wolfe, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 18, 1929
Serial No. 400,737
9 Claims. (Cl. 18—54)

1. A method of regenerating cellulose in situ from a viscose-containing film comprising the step of applying thereto a composition consisting of water, a soluble organic polyhydroxy compound having a plurality of hydroxyl groups situated upon the same side of the chain attached to adjacent carbon atoms, and a material selected from a group consisting of borax and boric acid.

1,948,324
WHEEL AND METHOD OF MAKING IT
Alva W. Woodward, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application January 23, 1929. Serial No. 334,593
1 Claim. (Cl. 301—67)



In combination with a metal wheel comprising a cast metal hub and spoke structure, the spokes having separate enlargements at their outer ends, a wrought metal rim having a relatively thin cylindrical wall embracing the enlargements at the ends of the spokes, of a plurality of angular recesses formed in the outer peripheral edges of said enlargements, and lugs extending from said rim into said recesses for reinforcing the connection between each spoke and the rim against stresses acting axially and circumferentially of the wheel.

1,948,325
TRAVELING VALVE
John L. Anderson and John C. Wells, Burkburnett, Tex., assignors to Magnolia Petroleum Company, Dallas, Tex., a corporation of Texas
Application May 10, 1930. Serial No. 451,214
9 Claims. (Cl. 103—220)

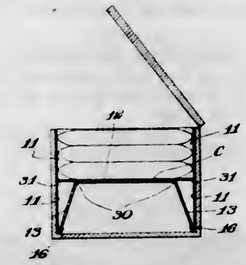


1. A traveling valve adapted to operate in a working barrel to pump oil from a well, said valve having a sand trap and a portion formed to provide a space between the valve and the working barrel, and means causing oil to flow into said space and from said space into the sand trap.

1,948,326
COOKY CADDY
Arthur E. Bergquist, Lindstrom, Minn., assignor of one-fourth to Axel E. Gustafson and one-fourth to Alcot E. Martenson, both of Lindstrom, Minn.
Application May 25, 1932. Serial No. 613,453
6 Claims. (Cl. 217—64)

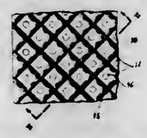
1. A cooky caddy adjustable bottom including, a plate-like member adapted to lie flat on the bottom of a full cooky caddy, a pair of supporting members pivoted at a point spaced from the edge of said member normally folded under said plate, and lifting members for said supporting members

adapted to automatically lift the free edges of said supports into position to raise said plate,



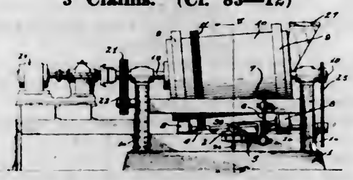
and thereby raise the contents of the cooky caddy when said lifting members are pulled upward.

1,948,327
MAT
Jo D. Berwick, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application December 19, 1930
Serial No. 503,436
3 Claims. (Cl. 154—49)



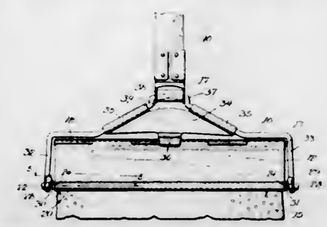
1. A mat for floors, comprising a body having elastic properties, said body being of substantially uniform thickness, ribs on the lower side of the body arranged in criss-crossing relation, each rib being wedge shaped in cross-section with its smallest edge outermost with respect to the body of the mat, said body being composed of rubber having a layer of sound insulating material completely embedded between its upper and lower surfaces, and ribs on the upper surface of said body extending at angles to the ribs on the lower side of the body.

1,948,328
ROLL MACHINE FOR PREPARING FOUNDRY SAND
Harry E. Boughton, Lakewood, Ohio, assignor to The Standard Sand & Machine Company, Chicago, Ill., a corporation of Ohio
Application December 8, 1930. Serial No. 500,745
3 Claims. (Cl. 83—12)



2. In a mixing machine, a stationary base, a tiltable cradle having laterally extending trunnions journaled upon said base, a mixing drum mounted on said cradle, wedges between said base and cradle for maintaining said cradle in tilted position, a pair of coacting rollers in said drum, said rollers having shafts journaled upon said base and means for tilting said cradle and drum relative to said rollers.

1,948,329
CLAMPING DEVICE
Chandos Burkhardt, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 9, 1930. Serial No. 487,469
10 Claims. (Cl. 150—6)

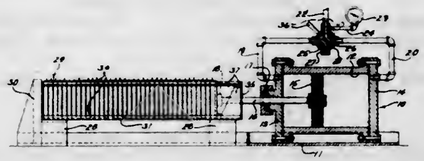


10. A clamping and supporting device, comprising a pair of plate members hinged together at their upper edges, and means for clamping together the lower edges of said plate members comprising a U-shaped operating handle portion pivoted to one of said plate members and of greater height and width than said plates, said handle portion enclosing and in substantially the same plane as said plate members when said plate members are clamped together.

1,948,330
METHOD FOR PREPARATION OF AROMATIC AMINES
William C. Calvert, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 15, 1931
Serial No. 530,427
13 Claims. (Cl. 260—130.5)

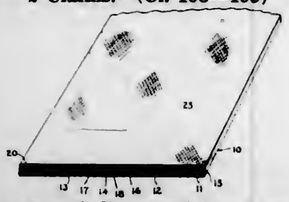
1. A method adapted for preparing primary aromatic amines which comprises subjecting a nitro-substituted aryl compound to reduction by means of finely divided iron and ammonium chloride.

1,948,331
METHOD OF MANUFACTURING ELECTROSTATIC CONDENSERS
Richard Edison Carlson, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1929
Serial No. 417,615
10 Claims. (Cl. 175—41)



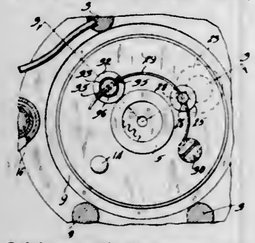
1. A method of manufacturing condensers which consists of applying a preliminary pressure to the condensers, heating the condensers to expel moisture and gases, impregnating the condensers, cooling the condensers to a predetermined temperature without substantial pressure, and then applying pressure until the condensers are completely cooled the preliminary pressure being higher than the final pressure.

1,948,332
CONVEYER BELT
Raymond S. Carter, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application April 16, 1929. Serial No. 355,639
2 Claims. (Cl. 198—193)



1. A conveyer belt comprising woven rubberized fabric, and a layer of woven fabric on the conveyer side of the belt having an outer surface entirely free from rubber and a rubberized inner surface, the fabric in the last mentioned layer being closely woven, thereby preventing the rubber on its inner surface from projecting therethrough.

1,948,333
FISHING REEL
Francis M. Case, Cleveland Heights, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio
Application April 4, 1929. Serial No. 352,405
4 Claims. (Cl. 242—84.5)



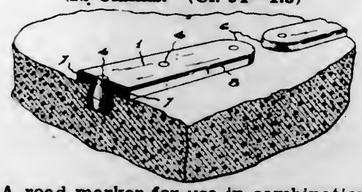
1. In a fishing reel structure comprising end plates, a spool rotatable therebetween, and means for preventing overrunning of the spool, comprising a wire spring anchored at one end on one end plate, a pin pierced by the spring and slidably carried in said end plate, a brake block also pierced by the spring and also slidably carried in said end plate, and means for moving the pin toward and from the spool flange.

1,948,334
ADHESIVE AND METHOD OF PREPARING AND APPLYING THE SAME
John E. Clegg, Brooklyn, N. Y., assignor to The Arabol Manufacturing Company, New York, N. Y., a corporation of New York
No Drawing. Application December 4, 1931
Serial No. 579,117
8 Claims. (Cl. 87—17)

2. An adhesive composition comprising by weight from 70 to 29 parts of G rosin, 29 to 70 parts Venetian turpentine, and 1 to 20% of diethylene glycol monobutyl ether.

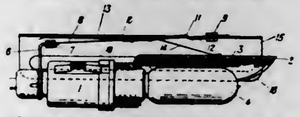
4. The method of preparing a composition for causing moisture-proof cellophane to adhere to similar or other materials, which comprises heating solid rosin to approximately 120° C. to liquefy the same, adding thereto Venetian turpentine, cooling the mixture to approximately 100° C., and then adding thereto a glycol ether of the group comprising ethylene glycol monobutyl ether, diethylene glycol monobutyl ether, ethylene glycol monoethyl ether, and ethylene glycol monomethyl ether.

1,948,335
SURFACE MARKER
Lee E. Clough, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application March 25, 1930. Serial No. 438,746
12 Claims. (Cl. 94—1.5)



1. A road marker for use in combination with a surface having a recess therein provided with overhanging edge portions, comprising a body portion, a depending anchor portion composed of elastic, deformable material, an aperture through said body portion communicating with an aperture in the anchor portion, and a plug insertable through the aperture of the body portion into the aperture of the anchor portion, said plug being formed with a bulging portion for materially enlarging the lateral dimension of the anchor portion to secure the marker in place within the recess in the surface to be marked.

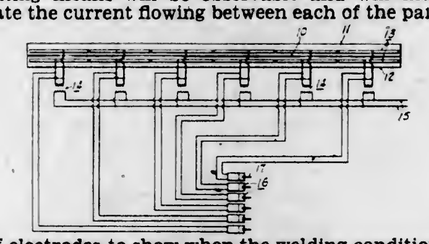
1,948,336
LIGHTING DEVICE FOR SEWING MACHINES
Herbert Corrall, Helensburgh, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 8, 1932, Serial No. 632,112, and in Great Britain December 10, 1931
5 Claims. (Cl. 240—2.14)



1. An electric lighting device comprising a support adapted for attachment to the gooseneck of a sewing machine, a cantilever blade spring anchored at one end to said support, and a lamp holder sustained by the free end of said spring and extending underneath the latter toward the anchored end thereof.

1,948,337
INDICATING SYSTEM FOR WELDING MACHINES
William E. Crawford, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 17, 1931. Serial No. 557,485
10 Claims. (Cl. 219—4)

10. In an indicating system for flash welding machines having a plurality of oppositely disposed electrodes for supplying electric current to perform welding operations, in combination, a plurality of meters connected across the electrodes to measure the electric current flowing between the different pairs of electrodes, correlated means actuated by the meters for indicating the currents measured, the correlated indicating means associated with the different pairs of electrodes being disposed to so register that when the currents are the same between the pairs of electrodes only one of the units of the indicating means will be observable and will indicate the current flowing between each of the pairs



of electrodes to show when the welding conditions are the same throughout the length of the article being welded and when the machine should be operated to complete the welding operation.

1,948,338
CATALYTIC PROCESS FOR PRODUCING GAS RICH IN HYDROGEN
Garland H. B. Davis and James A. Franceway, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 24, 1929
Serial No. 380,753
12 Claims. (Cl. 23—212)

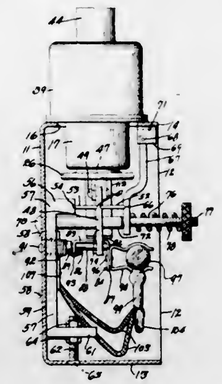
1. A catalyst for the production of hydrogen from hydrocarbon and steam comprising a mixture with phosphoric acid of an oxide of a metal of an atomic weight between 52 and 59 and an oxide of a metal selected from the group consisting of the metals of group III and the earth metals of group IV of the periodic system.

6. Process for the manufacture of a catalyst comprising kneading a mixture of two metal oxides, the one of a metal with an atomic weight between 52 and 59, the other of a metal selected from the group consisting of the metals of group III and the earth metals of group IV of the periodic system, with concentrated phosphoric acid and baking the mixture at a high temperature below the temperature of fusion of either oxide.

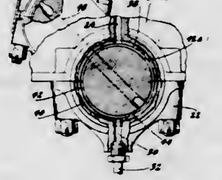
12. An improved process for producing a gas rich in free hydrogen which comprises passing a gas rich in hydrocarbons and steam at a reaction temperature over a catalyst comprising a mixture with phosphoric acid of nickel oxide and a refractory oxide.

1,948,339
CONTROLLER
Ralph W. Doeg, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a corporation of Michigan
Application November 25, 1929
Serial No. 409,531
3 Claims. (Cl. 200—83)

1. A controller comprising a bar having a pair of oppositely disposed notches formed therein, a pair of blades having adjacent end portions pivotally supported in the notches, a bracket for rigidly supporting the opposite end of one of the blade members, a rod secured rigidly relative to the bracket and projecting through an opening formed transversely in the bar, a bracket for pivotally supporting the opposite end of the other blade, one end of said bracket being pivotally mounted in a frame and the other provided with an opening through which an outer end portion of the aforesaid rod projects, a spring surrounding the end of the rod beyond the pivotally mounted bracket and having one end abutting the latter, and adjustably mounted nut on the outer end of the rod engaging the opposite end of the spring, and means associated with one end of the bar for moving the latter longitudinally.



1,948,340
GROOVE FOR MAIN BEARINGS
John Dolza and Donald D. Stone, Flint, Mich.; said Dolza assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 17, 1931. Serial No. 530,831
3 Claims. (Cl. 184—6)

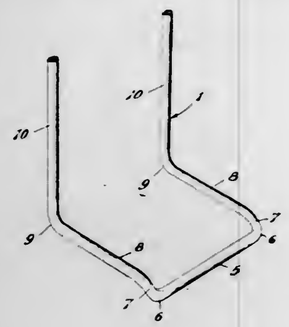


1. In a lubricating system for engines having a crankshaft, means for feeding oil to the main crankshaft bearings, an oil groove in the bearing surface of each bearing extending substantially therearound, a dam in the groove on the approach side of said means for feeding oil to build up oil pressure in said groove and an outlet in the crankshaft for conducting oil from the groove to the crankshaft throw.

1,948,341
CHAIR
Henri Dujardin, Rye, N. Y.
Application October 17, 1930. Serial No. 489,288
2 Claims. (Cl. 155—182)

1. A chair of the character described comprising a pair of back posts, a pair of side rails, a flexible covering extending between the side rails and between the back posts, and a cross rail connecting the front ends of the side rails, each of said side rails being directly connected to one of the back posts, said back posts being otherwise independent of each other whereby the opposite side rails and back posts may flex toward

each other with maximum movement at the upper ends of the back posts and whereby the dis-



comfort of cross rails against the user's back is avoided.

1,948,342
MANUFACTURE OF BENZOIC ANHYDRIDE

Michael N. Dvornikoff, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application October 14, 1931 Serial No. 568,871
7 Claims. (Cl. 260—123)

6. A process of preparing a monocarboxylic acid anhydride of benzene which comprises reacting a monocarboxylic acid of benzene with the corresponding acid chloride at sub-atmospheric pressures.

1,948,343
CONDENSATION PROCESS YIELDING CONDENSATION PRODUCTS OF THE UREA FORMALDEHYDE TYPE

Karl Eisenmann, Ludwigshafen-on-the-Rhine, and Theodor Kollmann, Mannheim, Germany, assignors, by mesne assignments, to Unyte Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 28, 1931, Serial No. 519,252, and in Germany March 27, 1930
7 Claims. (Cl. 260—3)

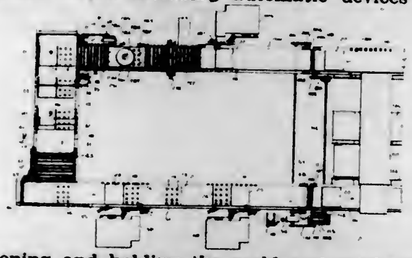
1. In the production of a resinous product selected from the class consisting of urea-aldehyde resinous products and thiourea-aldehyde resinous products by the condensation of water-soluble initial materials in the presence of a substantially anhydrous alcohol, the step of carrying out the condensation in the presence of an inert inorganic dehydrating agent.

1,948,344
MANUFACTURE OF RUBBER HEELS

Wilhelm Fischer, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

Application June 10, 1931. Serial No. 543,310
13 Claims. (Cl. 18—4)

1. An apparatus for manufacturing rubber articles in molds which comprises automatic means for conveying the molds in an endless path, means for preparing the mold to receive the unvulcanized rubber articles, means for vulcanizing the articles in the mold, and automatic means for removing the articles during one movement of the mold in said path, said last named means including automatic devices for

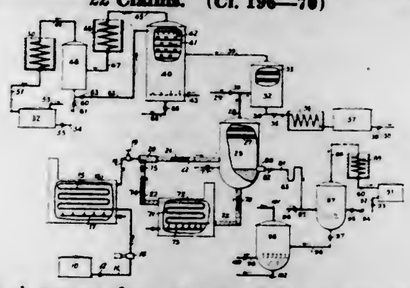


opening and holding the mold and mechanism for punching the articles from the open mold.

1,948,345
METHOD AND APPARATUS FOR CRACKING OILS

Ross J. Garofalo, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application October 11, 1930. Serial No. 488,073
22 Claims. (Cl. 196—70)

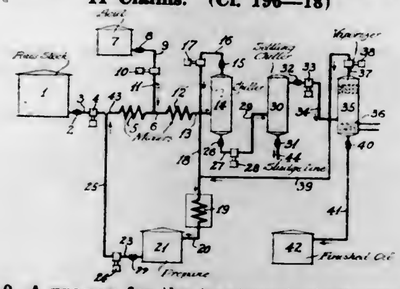


1. A process for cracking oil which comprises heating an oil under pressure to a temperature sufficient to vaporize said oil while under pressure, releasing the pressure on said vaporized oil and intimately commingling said vaporized oil with hot molten metal in an injector.

1,948,346
TREATMENT AND DEWAXING OF PETROLEUM

Ross J. Garofalo, Alhambra, and Claude E. Swift, Glendale, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application May 9, 1932. Serial No. 610,136
11 Claims. (Cl. 196—18)



10. A process for the treatment of oil containing wax which comprises dissolving said oil in a normally gaseous hydrocarbon diluent, treating said diluted oil with sulphuric acid to form finely divided sludge, vaporizing a portion of said normally gaseous hydrocarbon diluent to chill the oil and precipitate the wax, separating the sludge

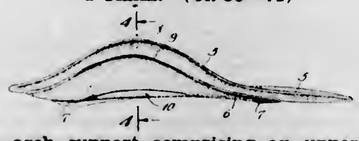
and wax from the acid treated oil diluted with normally gaseous hydrocarbon diluent and separating the normally gaseous hydrocarbon diluent from said acid treated oil.

11. A process for the treatment of oil containing wax which comprises diluting said oil in a light liquid hydrocarbon solvent, treating said diluted oil with sulphuric acid, immediately chilling said acid treated oil to precipitate the wax and separating the precipitate from the acid treated oil.

1,948,347
ARCH SUPPORT

George W. Gellear, New York, N. Y.

Application September 19, 1931
Serial No. 563,721
1 Claim. (Cl. 36—71)

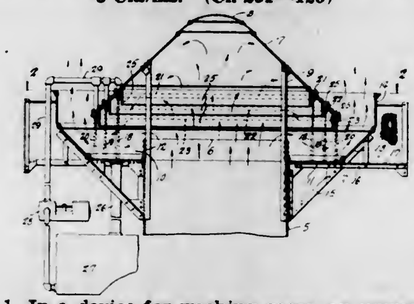


An arch support comprising an upper plate and a lower plate secured together by means of ventilating eyelets and composed of celluloid.

1,948,348
EXHAUST GAS WASHING APPARATUS

Charles M. Gerhold, New York, N. Y.

Application January 10, 1931. Serial No. 507,801
3 Claims. (Cl. 261—126)



1. In a device for washing gases, an upwardly extending conduit for the gases, a hood over and spaced above the discharge end of the conduit and larger than the conduit to deflect the gases downwardly and outwardly over the end of the conduit, a trough embracing the end of the conduit and the edge of the hood forming a passage through which the gases pass outwardly under the edge of the hood and then upwardly, and means for projecting a plurality of laterally spaced curtains of liquid spray downwardly through the gases into said trough, the first being adjacent the conduit and another adjacent the edge of the hood to discharge into the gases as they flow outwardly under the edge thereof.

1,948,349
CHAIN AND PROCESS OF MANUFACTURE

Preston M. Hall, Worcester, Mass., assignor to American Chain Company, Inc., a corporation of New York

Application February 8, 1930. Serial No. 426,847
11 Claims. (Cl. 152—14)

2. A cross-chain for an anti-skid device comprising a plurality of elongated twisted open links having spaced side strands each of which is swelled at a point intermediate its ends into a protuberance consisting of an annulus surround-

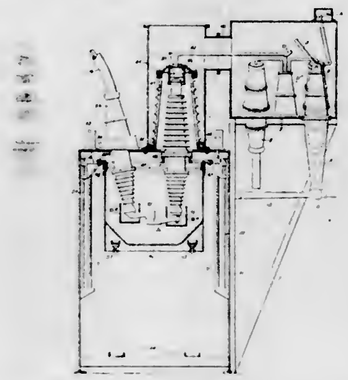


ing said strand, each annulus constituting a road contacting body extending to the plane of contact of the ends of the link with the road.

1,948,350
ELECTRICAL SWITCH GEAR

Herman J. H. Huber, Upper Darby, Pa., assignor to General Electric Company, a corporation of New York

Original application March 7, 1930, Serial No. 434,076. Patent No. 1,920,748, dated August 1, 1933. Divided and this application April 24, 1931. Serial No. 532,563
6 Claims. (Cl. 200—48)



6. In a metal-clad, high tension switching station, a disconnecting switch for electrically isolating apparatus in said station comprising a metallic supporting casing, two stationary contacts mounted in said casing, a movable member carrying two coacting contacts forming with said stationary contacts two pairs of contacts connected in series, an oil receptacle in which only one pair of said contacts coact, said pair of contacts engaging and separating within oil, the other pair of contacts coacting entirely in air and provided with means insuring separation thereof subsequent to separation of said oil immersed contacts, and means actuating said movable member for opening and closing said pairs of contacts.

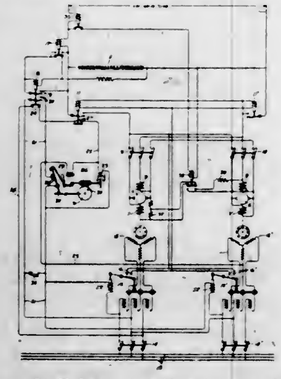
1,948,351
ELECTRICAL POWER EQUIPMENT

Harry M. Jacobs, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application July 30, 1931. Serial No. 554,053
8 Claims. (Cl. 171—314)

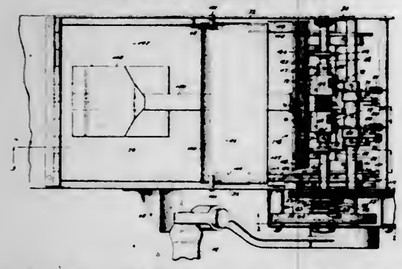
1. In combination, a variable load circuit, a storage battery connected to said circuit, a generator, means for connecting said generator to said circuit when the lead thereon exceeds a predetermined value, and means for reducing the voltage of said generator when the load on said

circuit exceeds a second predetermined value which is higher than the first whereby said stor-



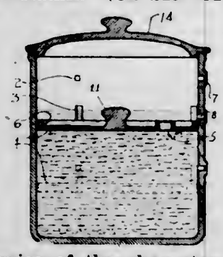
age battery shall be operative to supply said excess load.

1,948,352
MANIFOLDING MACHINE
Arthur A. Johnson, Bridgeport, Conn., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Application May 22, 1931. Serial No. 539,245
34 Claims. (Cl. 282—18)



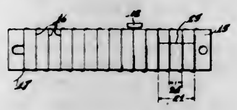
1. In a manifolding device, a platen for supporting a plurality of superposed strips; and means for alternately feeding first one or more and then the remainder of said strips each a predetermined extent.

1,948,353
PRESERVING CONTAINER
John L. Lagorio, Linden, Calif.
Application February 15, 1932. Serial No. 592,948
4 Claims. (Cl. 215—81)



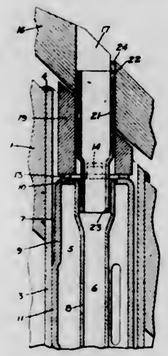
1. In a device of the character described, a container in combination with a presser plate having a plurality of fluid escape openings, a plurality of fluid escape opening lugs extended above the face of presser plate, an annular outer ring forming the periphery of the presser plate, the top face of said ring being elevated above the top face of the fluid escape opening lugs.

1,948,354
LOW GRADIENT RESISTOR
Edmund G. Lodge, Oak Lane, Pa., assignor to Hugh H. Eby, Philadelphia, Pa.
Application August 26, 1931. Serial No. 559,589
4 Claims. (Cl. 201—60)



1. A wire-wound resistor coil and means for providing a low resistance gradient along a selected portion of the length of the coil and comprising a low resistance coating individual to each turn on portions of the turns along said portion of the coil and an electrical connection transversely across the turns along the said portion.

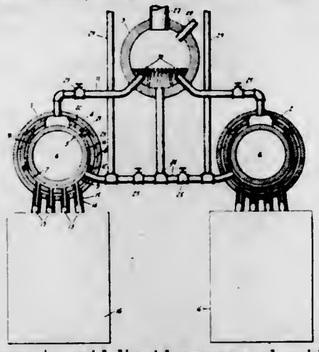
1,948,355
LIQUID BOILER
Anthony J. Nerad, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 17, 1928
Serial No. 306,467
4 Claims. (Cl. 122—312)



1. In a boiler structure, the combination of a casing, boiler tubes connected to the casing, a baffle plate in the casing provided with passages for the flow of liquid to the boiler tubes, and conduit means connecting said passages to the boiler tubes, said conduit means having at one end a universal and slip joint with the adjacent wall.

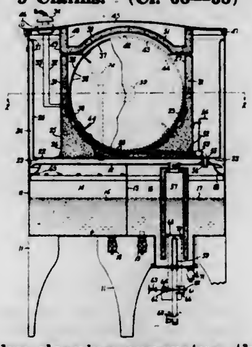
1,948,356
VAPOR GENERATOR
Anthony J. Nerad, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 16, 1929. Serial No. 400,141
17 Claims. (Cl. 122—318)

1. In a vapor generator, a liquid drum comprising walls which surround each other and are spaced apart to form an annular chamber, walls in said chamber dividing said chamber into a liquid space and a vapor space, boiler tubes connected to said drum, a vapor drum located above said liquid drum, and conduits connecting the



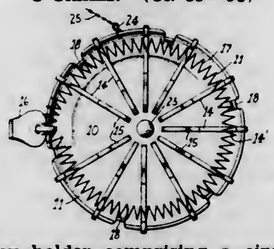
vapor drum to said liquid space and said vapor space.

1,948,357
DRY CLEANING APPARATUS
Burt L. Newkirk, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 19, 1933. Serial No. 666,865
5 Claims. (Cl. 68—38)



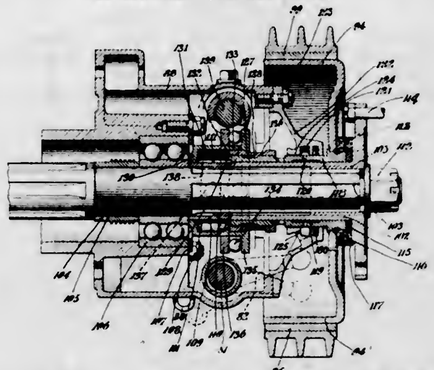
5. In a dry cleaning apparatus, the combination of an outer casing having an upper double-walled portion defining a condenser, a cleansing chamber provided within the double-walled casing portion, and partitions in the lower casing portion defining contaminated and fresh liquid tanks communicating with the condenser.

1,948,358
KEY FINDING INDEX
Anton Reil, New York, N. Y.
Application November 17, 1932
Serial No. 643,005
3 Claims. (Cl. 59—96)



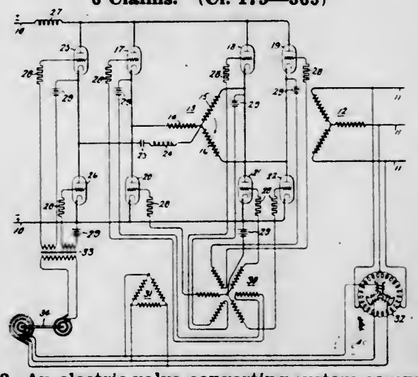
1. A key holder comprising a circular plate having a raised rim of arcuate cross section containing a plurality of perforations adjacent its edge, a spring hook clip pivoted on said rim in each perforation, said hooks being removably engageable with a key, an endless coiled tension spring disposed in said rim to retain said clips against the plate, means on said plate to secure said spring, and means on the reverse side of said plate to identify each key.

1,948,359
MECHANICAL POWER BRAKE
Edward A. Rockwell, Long Island City, N. Y.
Application October 8, 1927. Serial No. 224,846
43 Claims. (Cl. 188—140)



1. In combination with a motor vehicle having a propeller shaft, power braking means associated with said propeller shaft comprising a braking element mounted concentric with said propeller shaft, drive transmitting means normally rotating said element as a unit with said shaft, said braking element being retardable for a limited amount with respect to said shaft, operator-controlled means for retarding said braking element and means operated by the relative rotation between said braking element and said propeller shaft for actuating wheel brakes of the vehicle.

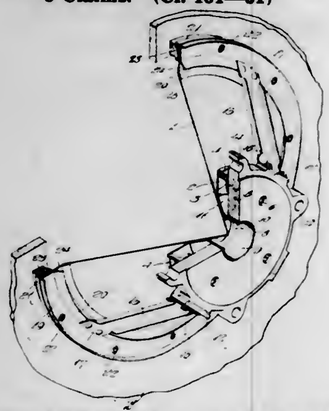
1,948,360
ELECTRIC VALVE CONVERTING SYSTEM
Camil A. Sabbah, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 23, 1932
Serial No. 634,533
6 Claims. (Cl. 175—363)



2. An electric valve converting system comprising a supply circuit, a load circuit, one of said circuits being an alternating current circuit and including a polyphase inductive winding provided with an electrical neutral, two oppositely connected groups of similarly disposed electric valves

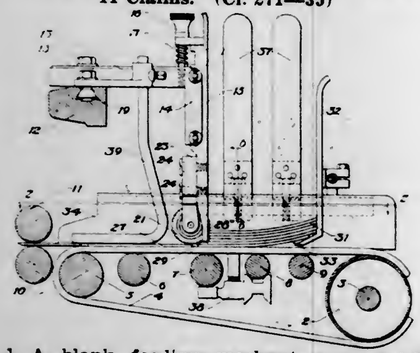
interconnecting the several terminals of said winding with opposite sides of the other of said circuits, means for rendering said valves conductive and nonconductive in a predetermined sequence, and a commutating circuit including a capacitor connected between said electrical neutral and the other of said circuits for commutating the current between the several valves of a group under any desired power factor conditions on said alternating current circuit.

1,948,361
SOUND REPRODUCER
Sigurd A. Sollie, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a corporation of California
Application July 30, 1927. Serial No. 209,467
8 Claims. (Cl. 181—31)



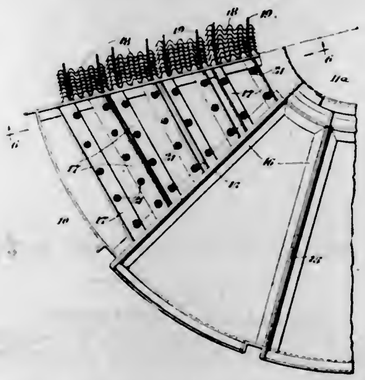
1. A sound reproducer comprising a casing, a conical shaped sound reproducing diaphragm, means for suspending said diaphragm from said casing in a position intermediate the apex and peripheral edge of said diaphragm, and a pair of channel shaped ring members secured back to back, means carried by said ring members and in contact with said peripheral edge of said conical shaped sound reproducing diaphragm for supporting the edge of said diaphragm.

1,948,362
BLANK FEEDER
Edwin G. Staude, Minneapolis, Minn.
Application July 5, 1932. Serial No. 620,861
11 Claims. (Cl. 271—35)



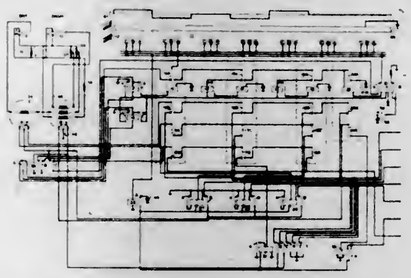
1. A blank feeding mechanism comprising, feeding means, a feed gate, and blank-flattening means mounted on the gate, to be operated by the feeding means.

1,948,363
DUST SEPARATOR
Joseph B. Taylor, Allendale, N. J., assignor to By-Products Recoveries, Inc., New York, N. Y., a corporation of New York
Application May 27, 1927. Serial No. 194,553
17 Claims. (Cl. 183—76)



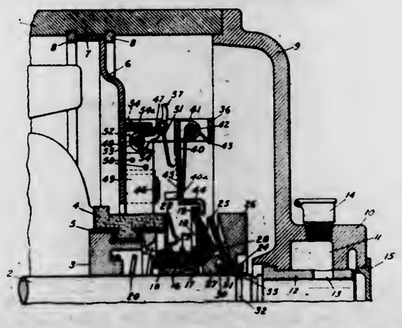
12. Means for separating dust from gases, comprising a casing, a plurality of dust-separating plates in said casing between which streams of dust-laden gas are adapted to flow and against the surface of which the gas is adapted to impinge, shields in said casing adapted to shield the gas-passages between plates of a portion of said set of plates, to quiet the gas flow in said shielded portion, means producing relative movement of said shields and plates so that successive portions or sets of said plates may be shielded, and means for jarring said plates while in said shielded position to dislodge dust in a zone of calm.

1,948,364
TELEGRAPH SYSTEM
Marion H. Woodward, Springfield, and Alder F. Connery, Brooklyn, N. Y., assignors to International Communications Laboratories, Inc., Newark, N. J., a corporation of New York
Application August 19, 1932. Serial No. 629,448
9 Claims. (Cl. 178—70)



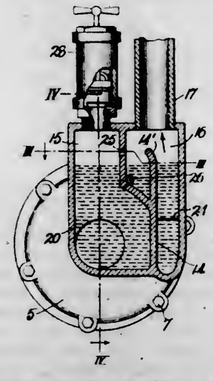
1. In a telegraph system, the combination of means for receiving cable code signals, means for automatically storing said cable code signals, means for rendering said storing means inoperative, and means operative upon receipt of cable code signals having a predetermined characteristic to store received cable code signals, and a start-stop distributor controlled by and responsive to said storing means to retransmit the stored signals.

1,948,365
ELECTRIC MOTOR
Alwin Borchers and Gustav Peiser, Dayton, Ohio, assignors to The Brown-Brockmeyer Company, Dayton, Ohio, a corporation of Ohio
Application March 7, 1932. Serial No. 597,244
11 Claims. (Cl. 172—279)



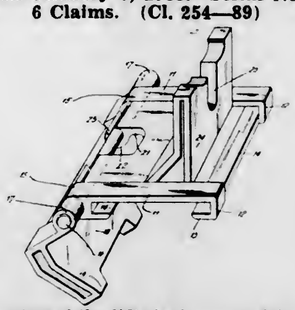
1. In an electric motor, an armature shaft having commutator bars thereon, a removable supporting disc around the shaft, brushes supported by said supporting disc to engage the bars, means supported by the supporting disc adapted to move the brushes from the bars, and means operated by the rotation of the shaft to cause the bars to be short-circuited and the brush-moving means to move the brushes from the bars.

1,948,366
SELF-PRIMING PUMP CONSTRUCTION
Richard G. Barsen, Kansas City, Mo.
Application May 24, 1930. Serial No. 455,238
1 Claim. (Cl. 103—113)



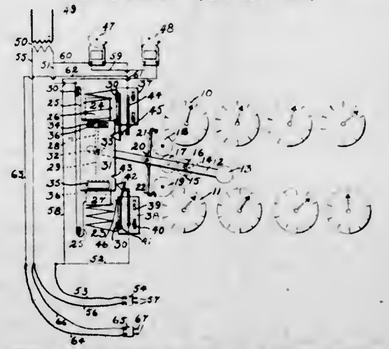
A self-priming pump construction comprising a pump casing providing an impeller chamber and a housing provided with an irregular baffle partition dividing the housing into a receiving compartment having an enlarged lower portion in communication with the impeller chamber intake and a discharge compartment having a reduced lower portion in communication with the pump discharge, means providing a combined recirculating and direct pump discharge passageway between the upper portion of said discharge compartment and the periphery of the impeller chamber, and a baffle member projecting from said partition in position to shield said passageway from the main discharge current from the pump.

1,948,367
AUTOMOBILE LIFT JACK
Cyrus J. Bristol, Des Moines, Iowa, assignor to Globe Machinery & Supply Company, Des Moines, Iowa, a corporation of Iowa
Application January 7, 1933. Serial No. 650,640
6 Claims. (Cl. 254—89)



1. An automobile lift jack comprising a base shaped to be slidingly supported on an automobile lift rail, a hinge pin supported by said base in position parallel with and adjacent one side edge of a lift rail and below a plane common to the top surface of the lift rail, and a jack member pivoted to said hinge pin and formed with an automobile axle engaging member capable in one position of assuming an upright position and resting on a lift rail for engaging an automobile axle, and also capable of swinging outwardly and downwardly to a position adjacent the side of an automobile lift rail.

1,948,368
SYSTEM OF METERING
David M. Carr, Brooklyn, N. Y.
Application April 27, 1929. Serial No. 358,674
17 Claims. (Cl. 235—91)

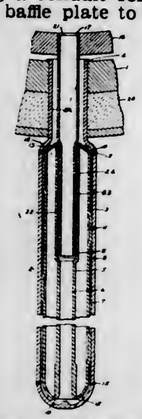


1. The combination in a metering device of a plurality of sets of registering trains, a pivoted arm, a movable meter driven gear wheel mounted on said pivoted arm, electromagnets for moving same, and adjustable contactors to shut off the current when the gear wheel reaches an operating position.

1,948,369
LIQUID BOILER
Bevis P. Coulson, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 28, 1930. Serial No. 478,399
Renewed December 8, 1932
3 Claims. (Cl. 122—305)

1. In a boiler structure, the combination of a casing, a boiler tube connected to the casing.

said boiler tube being provided with a core having a central passage, a baffle plate in the casing, means providing a conduit for conveying liquid from above the baffle plate to the core passage,



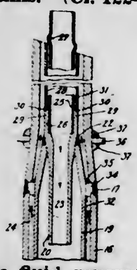
said conduit being not mechanically connected to said core and means providing an axially extending sealing passage for preventing leakage from the space outside the core to the core passage.

1,948,370

ELASTIC FLUID GENERATOR

Bevis P. Coulson, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 29, 1932
Serial No. 649,351
4 Claims. (Cl. 122—305)



1. In an elastic fluid generator the combination of a drum, a baffle plate in the drum, a depending tube fastened to the drum, a core within the tube having a liquid passage and defining with the tube a vapor passage communicating at its lower end with the liquid passage, a tubular member having a loose fit with an upper portion of the core for conducting liquid from above the baffle plate to the liquid passage, and a sleeve surrounding the tubular member with its lower end united with the upper end of the core for defining a hydraulic seal between the vapor passage and the liquid passage.

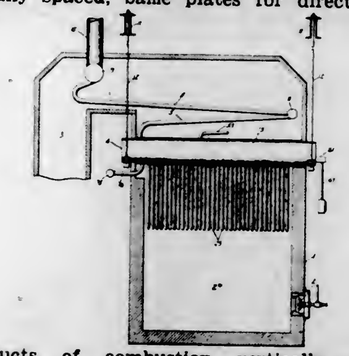
1,948,371

MERCURY BOILER

William L. R. Emmet and Bevis P. Coulson, Jr., Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application September 17, 1928
Serial No. 306,486
13 Claims. (Cl. 122—312)

1. A mercury boiler comprising a plurality of units mounted side by side in spaced relation to each other, each unit comprising a casing and tubes depending therefrom, said tubes being flared outwardly relatively to each other so that the lower ends of all the tubes are substantially equally spaced, baffle plates for directing the



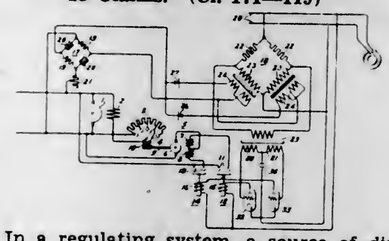
products of combustion vertically upward through the spaces between the tubes and casings, and means providing a conduit located beyond the boiler units as regards the direction of flow of the products of combustion for conveying away the products of combustion.

1,948,372

REGULATING SYSTEM

Alan S. Fitz Gerald, Wynnewood, Pa., assignor to General Electric Company, a corporation of New York

Application September 2, 1931, Serial No. 560,799
Renewed July 11, 1933
13 Claims. (Cl. 171—119)



1. In a regulating system, a source of direct current, a bridge circuit comprising resistance elements having linear and non-linear volt-ampere characteristics respectively and connected to be energized from said direct current source, a source of alternating current, a second bridge circuit comprising a plurality of impedances connected to be energized from said alternating current source, and means operative in accordance with the difference voltage of the direct current bridge circuit for varying one of said impedances for producing a similar amplified difference voltage in said alternating current bridge.

1,948,373

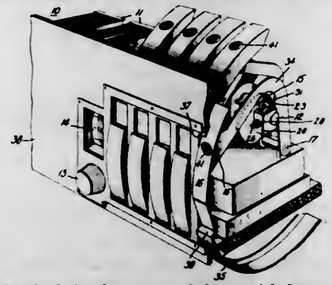
PRESELECTOR TUNING SYSTEM

Mark Flaherty, Haddon Heights, N. J., assignor to General Electric Company, a corporation of New York

Application July 2, 1932. Serial No. 620,652
17 Claims. (Cl. 74—14)

1. In a preselector device for radio receiving apparatus and the like, a heart-shaped cam, a lever having a roller in contact with the periphery of said cam, said lever being adapted

to exert pressure on said cam to rotate the same through a predetermined range, manually operated means comprising an arc-shaped member connected to said lever having a finger notch formed therein, and means to center said cam in its closed or operating position comprising a positioning element connected to said cam



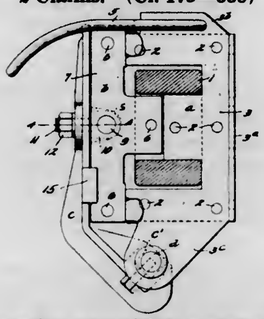
and adapted to be moved by said lever as the cam approaches said closed or operative position, said cam being so formed and said lever and roller being so arranged with respect thereto that the cam is moved throughout its range of travel with substantially uniform pressure on said lever.

1,948,374

ALTERNATING CURRENT CONTACTOR

Joseph F. Frese, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a corporation of Maryland

Application June 26, 1933. Serial No. 677,748
2 Claims. (Cl. 175—338)



1. A contactor comprising a magnet having a plurality of pole-pieces, a laminated armature adapted to engage the pole-pieces, said armature having a centrally located recess in its rear side and a pin extending transversely of the armature through the recess, a pivoted arm movable toward and from the magnet and a member secured to said arm and having a part loosely fitting within said recess, said part having an eye loosely surrounding said pin.

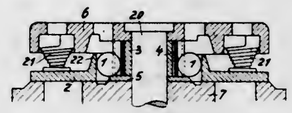
1,948,375

ANNULAR VALVE

Alfred Hoerbiger, Mauer, near Vienna, and Robert Köhler, Vienna, Austria, assignors to the firm Hoerbiger & Co., Mauer, near Vienna, Austria, a company of Austria

Application November 4, 1930, Serial No. 493,436, and in Austria November 5, 1929
3 Claims. (Cl. 251—144)

1. In combination with an annular valve and a valve seat therefor, a substantially circular guiding surface on the said annular valve, a substantially circular guiding surface stationary relatively to the said valve seat and concentric to the said circular guiding surface on the annular valve and rolling elements interposed between and contacting with both the said substantially



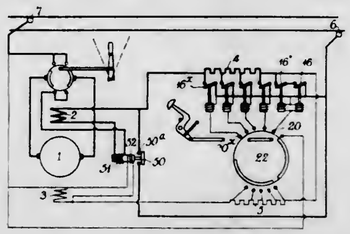
circular guiding surfaces, one of the said substantially circular guiding surfaces being provided with axially arranged elastic elements adapted to force the rolling elements against the other guiding surface.

1,948,376

ELECTRICALLY DRIVEN VEHICLE

Sydney Slater Guy, Wolverhampton, and William Arthur Stevens, Maidstone, England

Original application May 29, 1930, Serial No. 457,304, and in Great Britain August 6, 1929. Divided and this application July 22, 1932. Serial No. 624,266
4 Claims. (Cl. 172—179)



1. In an electrical propelled vehicle, a dynamo electric machine having an armature, a series field winding and a shunt field winding, a source of electric energy, a multi-positioned controller having a neutral position and a plurality of operating positions, said controller adapted upon the initial movement thereof to connect said machine with said source, said controller being adopted upon further movement thereof to effect acceleration of said machine, a reverse current relay associated with the terminals of said machine and responsive to the direction of the current in said armature, and means associated with said relay having an inoperative position when said machine is acting as a motor, said means being operable to maintain the initial connection effected by said controller when said machine is acting as a generator even though said controller has returned to said neutral position.

1,948,377

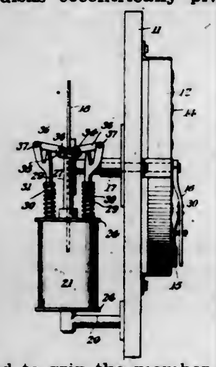
ELECTRIC AUTOMATIC VOLT AND HEAT CONTROL FOR WELDERS

Larkin A. Hacker, Vernon, Tex.

Application November 17, 1931
Serial No. 575,681
5 Claims. (Cl. 175—341)

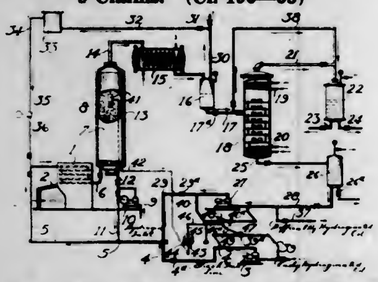
1. In an electrical apparatus, a rotary member, and electro-magnetic means controllable from a remote point for rotating said member in a selected direction step by step, said electromagnetic means comprising solenoids, elements

attractable thereinto, arms pivoted on said elements and disks eccentrically pivoted on said



arms adapted to grip the member and partially rotate the same.

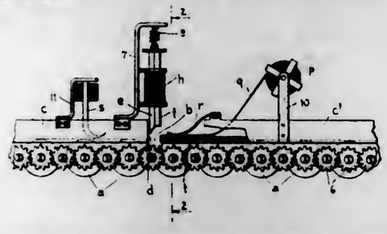
1,948,378
HYDROGENATION OF HYDROCARBON MATERIALS
Clarke T. Harding, Elizabeth, N. J., assignor to to Standard-I. G. Company
Application October 8, 1930. Serial No. 487,135
5 Claims. (Cl. 196—53)



1. In a continuous recycling process for the destructive hydrogenation of petroleum hydrocarbons at temperatures above 700° F. and under pressure in excess of 20 atmospheres in which the mixture of fresh oil and recycled oil is first heated in a heating coil and then discharged into an enlarged reaction zone, the method of maintaining the temperature in the hydrogenation zone within the optimum range for destructive hydrogenation which comprises changing the proportion of recycle oil to fresh oil in the feed, at such times as the temperature in the hydrogenation zone is observed to fluctuate outside of the optimum range, to such an extent that the net exothermic heat of reaction is changed sufficiently to bring the temperature in the reaction zone back within the optimum range.

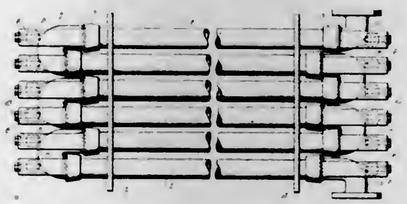
1,948,379
APPARATUS AND METHOD FOR APPLYING STRIPS OF SOLDER TO SHEET METAL
Carl Helle, Brunswick, Germany, assignor to Elektrische Löt- und Schweiss-Gesellschaft mit beschrankter Haftung, Brunswick, Germany
Application June 12, 1931, Serial No. 543,949, and in Germany August 19, 1930
14 Claims. (Cl. 153—1)

1. An apparatus for applying a strip of solder to sheet metal, comprising means for feeding a sheet and a strip superposed thereon adjacent one side edge of the sheet with the forward portion of the strip projecting ahead of the front end of the sheet, and means for bending the front end of the strip of solder on the front edge of the sheet.



11. A method of preparing blanks for tin cans or the like comprising laying a strip of solder close to an edge of a blank, feeding the strip and a succession of spaced blanks forward, cutting the strip between successively fed blanks so as to leave a portion of the strip extending beyond the front end of the next blank, and bending the end of the strip over the end of the blank next in series to insure movement of the strip with the blank.

1,948,380
HEADER CONSTRUCTION AND HEAT TRANSFER APPARATUS
Harry M. Hope, New York, N. Y., assignor to Alco Products, Incorporated, a corporation of Delaware
Application November 30, 1931
Serial No. 577,872
6 Claims. (Cl. 257—255)

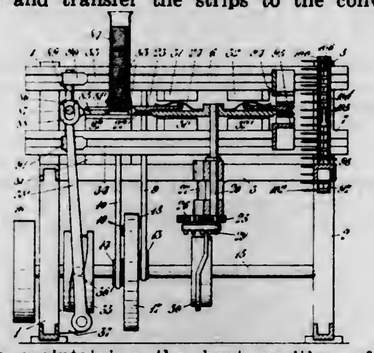


1. In a heat transfer apparatus, the combination including a plurality of tubes of equal length, a tube sheet, the ends of alternate tubes projecting a given distance from said tube sheet, the ends of complementary alternate tubes being spaced a greater distance from said tube sheet, and J-bends joining adjacent tubes.

1,948,381
MACHINE FOR THE MANUFACTURE OF MATCH SPLINT STRIPS
Johan Werner Johansson, Bankeryd, Sweden
Application June 4, 1932, Serial No. 615,390, and in Sweden June 5, 1931
6 Claims. (Cl. 144—51)

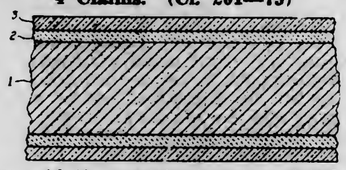
1. A machine for making splint strips adapted for use in the manufacture of match strips, which comprise splints connected at one end to a common base strip, having in combination a hopper to receive splint strip blanks to be worked into splint strips, a movable conveyor to receive the finished splint strips, a reciprocating feeder to discharge the blanks from said hopper, means to carry the discharged blanks to successive working positions to subject them to subsequent formation into splint strips, and means to bend

alternate splints of the splint strips to opposite sides and transfer the strips to the conveyor



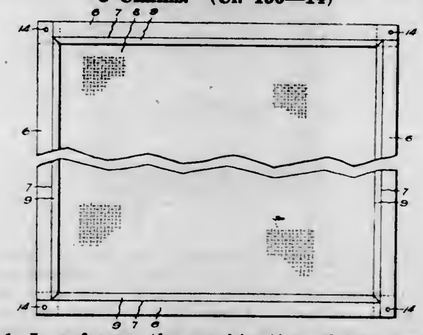
while maintaining the bent position of the splints.

1,948,382
OXIDATION RESISTING CARBON ARTICLE
Harry V. Johnson, Niagara Falls, N. Y., assignor to National Carbon Company, Inc., a corporation of New York
Application September 2, 1931. Serial No. 560,857
4 Claims. (Cl. 201—75)



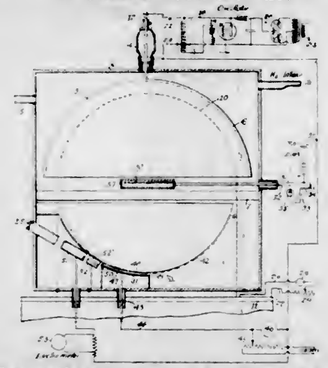
1. An oxidation resistant carbon article comprising a body predominantly of carbon, a coating containing silicon carbide on said article, said coating being approximately 0.01 to 0.05 inch thick, and a glaze on said coating, said glaze comprising at least one of the fluorides of the alkali and alkali earth metals in combination with the oxide or oxides of at least one of the following: boron, silicon, aluminum, phosphorus, magnesium, calcium.

1,948,383
WINDOW SCREEN FRAME
Joseph E. Johnson, West Roxbury, Mass.
Application March 3, 1932. Serial No. 596,538
3 Claims. (Cl. 156—14)



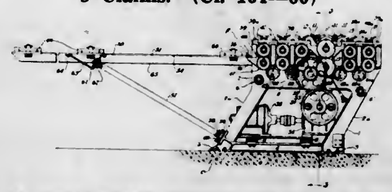
1. In a frame, the combination of four members constituting the four sides of the frame, all four members being alike in respect to the formation of corresponding, non-adjacent ends, said members being jointed together at all four corners by like joints, each member being provided at each end with two tenons whose ends are perpendicular to the longitudinal edges of such member on which they are formed, said tenons being separated from each other by an internal mortise, and there being at each end an external recess presenting a shoulder perpendicular to said edges, the ends of each member differing from each other in that said external recesses are on opposite sides, respectively, of such member.

1,948,384
METHOD AND APPARATUS FOR THE ACCELERATION OF IONS
Ernest O. Lawrence, Berkeley, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application January 26, 1932. Serial No. 589,033
17 Claims. (Cl. 250—27)



1. The method of accelerating ions which comprises subjecting the ions to the accelerating action of an oscillating electric field and causing the ions to travel in a plurality of revolutions in curved paths by the action of a magnetic field thereon, said magnetic field being of such strength that the period of one-half revolution of the ions in the electric field synchronizes with the period of oscillation of the electric field and the ions are thereby caused to repeatedly traverse the oscillating field in the direction of acceleration by such field and are thus subjected to repeated acceleration.

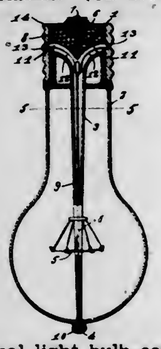
1,948,385
SHEET SLITTING MACHINE
George W. Lentz, Canton, Ohio, assignor to The Bonnot Company, Canton, Ohio, a corporation of Ohio
Continuation of application Serial No. 92,682, March 6, 1926. This application June 25, 1931. Serial No. 546,731
8 Claims. (Cl. 164—60)



8. A metal sheet slitting machine including means for slitting a plurality of strips from a sheet, a plurality of sets of feed rolls for feeding the sheet to the slitting means, and a plurality of sets of delivery rolls for delivering

strips from the slitting means, and the slitting means including two shafts, a plurality of side reacting rigid rotary shearing cutters on each shaft, rigid spacing means for the cutters, one side of each cutter being in lateral shearing abutment with an opposite side of a cutter on the other shaft, and the reacting sides of the cutters on each shaft being similarly located, and adjustable positive means for maintaining each shaft immovable in the direction of its axis of rotation, whereby an adjusted shearing pressure is maintained between the laterally abutting cutters and whereby the cutters are maintained against lateral movement.

1,948,386
THEFTPROOF LIGHT BULB
Valere Leveille, Lawrence, Mass.
Application September 20, 1933
Serial No. 690,253
3 Claims. (Cl. 176—31)
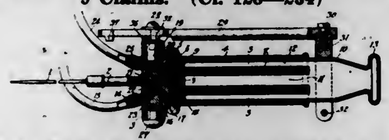


3. An electrical light bulb comprising a base, a destructible body carried by said base, a hollow filament post located in the body and carried by the base, locking elements carried by the base and extending into the post, a tip on the body and receiving one end of the post, a member connected to the locking elements and extending through the post into the tip, a sleeve to receive the base and having a groove to receive the locking elements and connectible with an electrical output against removal until the base has been removed from said sleeve.

1,948,387
TABLE CHAIR
Leon D. Levy, New York, N. Y.
Application February 6, 1933. Serial No. 655,494
9 Claims. (Cl. 155—43)



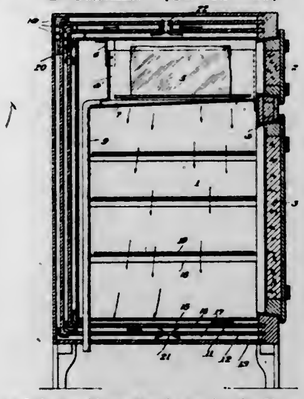
9. A chair of the character described including a pair of back arms, a back and and a plurality of means for connecting the back to the upper ends of said arms, said means including a hinge carried by said back, a bolt carried by said hinge extending through one of said arms near the upper end thereof, a second bolt carried by said back, said bolts being positioned to extend in a direction from one arm to the other with their axes in alignment so that the back may be swung between said arms, means disengageably connecting said second bolt to the other of said arms whereby the back may be supported between said arms in different angular positions, or may be swung about said hinge to a position at one side of said chair.

1,948,388
AUTOMATIC DISPLACEMENT SYRINGE
Frank Liberson, Brooklyn, N. Y.
Application July 11, 1932. Serial No. 621,965
9 Claims. (Cl. 128—234)



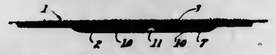
2. A displacement syringe comprising means forming two chambers, a plunger arranged in each chamber, said plungers functioning as one, a valve connected to said chambers and means for shifting said valve automatically as the plungers move to an extreme outer position and an extreme inner position, said valve being provided with ports to draw in a supply of fluid from a source to one of said chambers as the plunger moves outwardly and at the same time draw in air to the other of said chambers, said valve being also constructed with ports so that when said plungers are moved inwardly the fluid drawn in will be discharged out of a different passageway and the air drawn in will be simultaneously discharged out through the fluid port so as to furnish a displacing agent for the withdrawn fluid.

1,948,389
REFRIGERATING SYSTEM
Emmett Maxwell, Reidsville, N. C., assignor of one-half to John Watt Womack, Reidsville, N. C.
Application May 4, 1931. Serial No. 534,965
4 Claims. (Cl. 62—46)



1. A refrigerating system including a refrigerating chamber, closely spaced internested cold air circulating ducts receiving the chamber therein and being closed to the chamber and to the atmosphere, the duct arranged closest to the refrigerant chamber having ports in its walls adjacent to the closed top thereof, the next duct having a port at the bottom thereof to establish a communication with the outer duct, and the said closest duct and the outer duct having a tube connecting them at a high elevation for passage of the circulating air.

1,948,390
RUBBER SHOE SOLE AND PROCESS OF PRODUCING THE SAME
Charles P. Mebane, Columbus, Ohio, assignor to The National Glove Company, Columbus, Ohio, a corporation of Ohio
Application October 27, 1931. Serial No. 571,337
5 Claims. (Cl. 36—32)



1. A half sole for shoes comprising a thin flat body of shoe-sole formation formed from a pliable rubber compound and having inseparably incorporated in the upper surface thereof a layer of canton flannel, the nap surface of said flannel being embedded in the rubber compound, the upper surface of said flannel layer being provided with nap-like fibers.

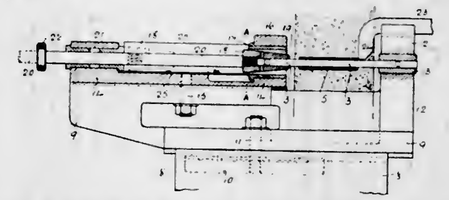
1,948,391
PROTECTIVE LINING IN CRACKING VESSELS
Thomas Montgomery and John C. Morrison, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware
Application February 15, 1929. Serial No. 340,137
5 Claims. (Cl. 196—133)



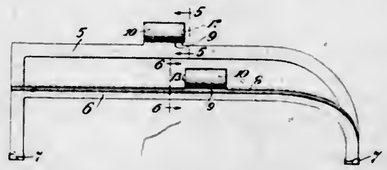
1. In a device for the heat and pressure treatment of hydrocarbons, a shell adapted to contain the hydrocarbons under pressure, and concrete lining the interior of the shell in liquid tight relation thereto.

1,948,392
CENTERLESS GRINDING MACHINE
William Ogilvie, Solihull, England, assignor to B. S. A. Tools Limited, Birmingham, England
Application December 17, 1931, Serial No. 581,671, and in Great Britain January 8, 1931
7 Claims. (Cl. 51—103)

3. A machine for concentrically grinding tubular work pieces, comprising peripherally opposed grinding and control wheels, a mandril or work support located between the peripheries of said wheels at a point below a plane extending through the axes of said wheels, a slide adjustable in relation to the periphery of said control wheel, means for supporting the rear end of said mandril from said slide, a second slide adjustably mounted on said first slide, a bracket carried by said second slide, a tapered bush mounted in said bracket, a tapered hollow plug removably mounted in said bush and receiving and supporting the front end of said mandril, a second bracket mounted on said second slide outwardly of said first bracket, and a rod slidable in said second bracket and connected to said plug, said rod providing means by which said plug may be moved into and out of said bush.



1,948,393
HAND BAG FRAME
Edward Poeter, Irvington, N. J., assignor to E. Poeter & Co., Irvington, N. J., a corporation of New Jersey
Application October 24, 1931. Serial No. 570,853
1 Claim. (Cl. 150—29)

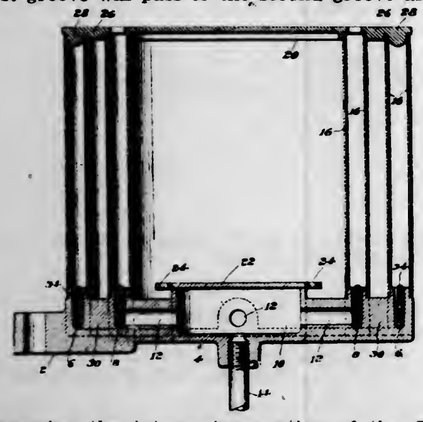


In a bag frame having complementary frame members with parallel side walls forming a U-shaped channel adapted to be placed in parallelism and having the adjacent walls forming the inner walls substantially in contact with each other, and with the ends of the bag fabric passing over the outer walls of said adjacent channels, the combination of an extension on each inner wall forming part thereof and flush with the planes of the side faces of said wall forming a longitudinally disposed tab projecting outwardly of the frame beyond the edge of the remaining portion of said wall, the tab of one wall being disposed in juxtaposition and parallel to the tab of the adjacent inner wall, and a fastening member on each tab having a longitudinal groove securingly engaged by said tab, and extending laterally beyond the tab over the overhanging bag material in the frames in nonobstructing relation thereto, and each fastening member being offset in respect to its tab and in longitudinal alignment with its adjacent member, with the ends of the members facing each other, and a cooperative locking device on each adjacent end of the fastening members.

1,948,394
FUEL-OIL BURNER
Leonard A. Popp, Saugus, Mass., assignor to Lynn Products Co., Lynn, Mass., a corporation of Massachusetts
Application March 3, 1930. Serial No. 432,616
18 Claims. (Cl. 158—87)

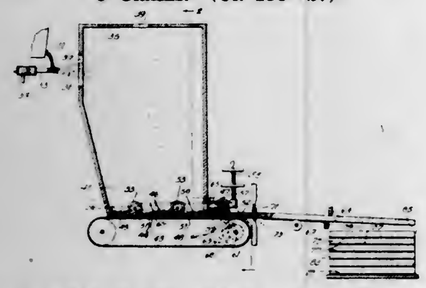
18. An oil burner having a plurality of combustion chambers each having a bottom vapor groove, a vaporizing chamber having a vapor delivery passage leading solely to one of said grooves so that the vapor delivered therethrough must traverse said groove, and another vapor delivery passage spaced a substantial distance from said first-named passage and affording communication between said first groove and a second groove

through which an excess of vapor delivered to the first groove will pass to the second groove after



traversing the intervening portion of the first groove.

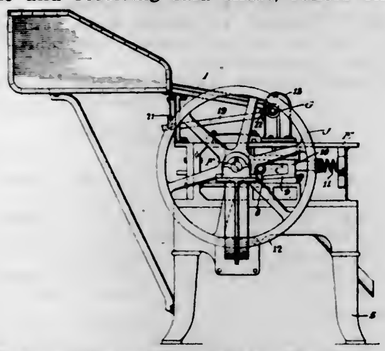
1,948,395
APPARATUS FOR PRODUCING ROCK WOOL PRODUCTS
Edward R. Powell, Alexandria, Ind., assignor to Banner Rock Corporation, Alexandria, Ind., a corporation of Delaware
Original application January 5, 1927, Serial No. 159,228. Divided and this application January 16, 1928, Serial No. 247,175. Renewed June 26, 1933
9 Claims. (Cl. 154—27)



1. Apparatus for making rock and mineral wools comprising a blow chamber, means for blowing fibrous material into said chamber, a moving conveyor engaging the lower end of said blow chamber to continuously carry out said material and rollers cooperating with the conveyor within the chamber to stratify the wool.

1,948,396
MACHINE FOR CRACKING OFF SHELLS OF COQUITO NUTS AND ITS SIMILARS
Mauricio M. Rangel, Hacienda de Nogueras, Colima, Mexico
Application November 13, 1931, Serial No. 574,839, and in Mexico November 13, 1930
1 Claim. (Cl. 146—12)

A machine of the character described comprising a frame, a stationary jaw in said frame, a movable jaw in said frame and confronting the stationary jaw, the stationary jaw being inclined in the direction of the movable jaw, a hood forming a throat for delivering nuts between the jaws, a chute for feeding nuts to the hood, a receiving and delivering member arranged in the hood, a trip on the movable jaw for actuating the receiving and delivering member whereby the latter will be moved from receiving to delivering position, extensions on the movable jaw, a shaft carried by said extensions, slides fitted in the frame and receiving said shaft, rollers on the



shaft, eccentrics continuously working upon said rollers, means for operating the said eccentrics, and means for tensioning the movable jaw in the direction of the eccentrics to maintain the rollers and said eccentrics at all times in contact with each other.

1,948,397
VEHICLE DRIVE AND BRAKING APPARATUS
Willard F. Rockwell, Pittsburgh, Pa., and Herbert W. Alden, Detroit, Mich., assignors to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application September 14, 1931
Serial No. 562,772
1 Claim. (Cl. 180—70)

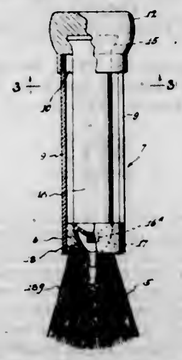


A vehicle comprising a pair of driven wheels, wheel brakes for said wheels, means for operating said wheel brakes, mechanism for differentially driving said wheels, a driving motor, means driven by said driving motor for driving said differential mechanism, an overrunning clutch interposed between said driven means and said driving motor, means for braking said wheels through said differential mechanism independently of said wheel brakes, and means for operating said means for braking said wheels independently of said wheel brakes, simultaneously with the operation of said wheel brakes, said differential mechanism embodying means to prevent one of said wheels from rotating ahead of the other of said wheels during momentary unequal retarding action of said brakes on said wheel, whereby to prevent skidding of said vehicle upon sudden uneven application of said wheel brakes.

1,948,398
MAGAZINE SHAVING BRUSH
John Rose, Stockbridge, Mass.
Application September 10, 1931
Serial No. 562,109
1 Claim. (Cl. 15—135)

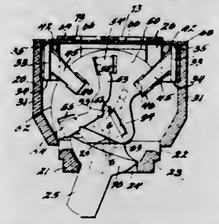
In a magazine brush, the combination of a collapsible tube having an exteriorly threaded delivery end and an inclined shoulder around the end, a flexible rubber nozzle fitted on the shoulder

and around and in contact with the threads of the delivery end, said nozzle being formed of a materi-



al of the character of rubber and having a bulbous terminal discharge portion formed with discharge apertures.

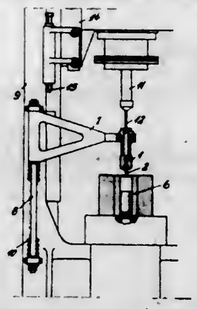
1,948,399
ELECTRIC SWITCH
Mark N. Russell and Victor R. Despard, Syracuse, N. Y., assignors to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Application June 6, 1932. Serial No. 615,675
13 Claims. (Cl. 200—67)



12. In a snap switch, in combination, a shell of insulating material open at its rear for the insertion of a switch mechanism and having a front wall, side walls and end walls, said side walls being grooved from the back toward the front of the shell adjacent an end of the shell, a pair of terminal plates insulated from each other and supported from the grooves adjacent said end wall, contacts associated with the terminal plates and extending in the shell for cooperation with the switch mechanism, terminals available through said end wall and a rear cover plate for said shell and holding the terminal plates in position.

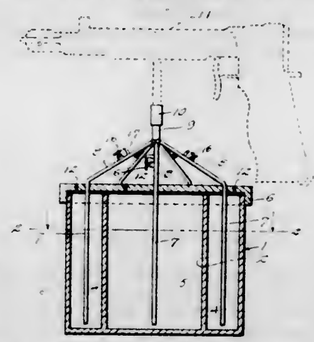
1,948,400
METAL EXTRUSION PRESS
Oswig Schlenstedt, Mulheim - Ruhr - Speldorf, Germany, assignor to Hydraulik, Gesellschaft mit beschrankter Haftung, Duisburg, Germany
Application December 22, 1932, Serial No. 648,431, and in Germany November 2, 1931
2 Claims. (Cl. 207—1)

1. Apparatus for centering blocks in the holders of metal extrusion presses, comprising a press ram and a tool for forming a central depression in the block, the said tool being carried by the said press ram, a carrier for the said press ram, a support separate from the press plunger upon which support the said carrier is movable independently of the plunger in opposite directions parallel to the path of the plunger, and means for counter-balancing the carrier and the press ram to maintain them remote from the



holder, the carrier permitting the press ram to be moved into the path of the plunger.

1,948,401
PAINT MIXER
George A. Smith and John F. Foster, Rawlins, Wyo.
Application August 15, 1929. Serial No. 386,111
3 Claims. (Cl. 91—45)

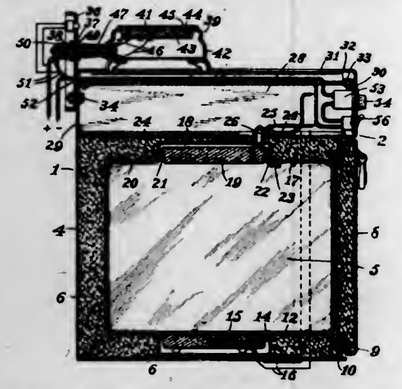


1. The combination with a spray gun having a fluid inlet pipe, of an attachment removably secured to said pipe and comprising a plurality of liquid containers, conduits placing the liquid in each container in communication with said pipe, and an independent valve for each conduit allowing the liquid to be discharged therethrough after being opened until the same is manually closed whereby the liquid can be independently and selectively discharged from each container or in various combinations.

1,948,402
DETACHABLE UNIT, TABLE TOP ELECTRIC RANGE
Jacob Teller, New Rochelle, and Arthur P. Schulz, New York, N. Y., assignors, by mesne assignments, to Teller Stove Designing Corporation, a corporation of New York
Application October 23, 1931. Serial No. 570,674
1 Claim. (Cl. 219—37)

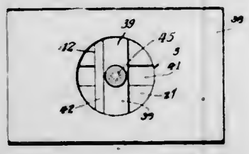
An electric stove or range comprising an upper section having side walls, a rear wall and a front wall, a detachable table top member, said upper section and table top member being provided with cooperating fastening flanges, a rear panel detachably connected with the rear wall of said upper section, a plurality of electric outlets carried by said panel, and a plurality of electric heating devices interchangeably connectible with

any of said electric outlets, a main switch mounted upon said front wall and a rheostat mounted



upon said front wall in series with said switch and said heating devices.

1,948,403
HOLDER
John R. Thomas, Wilkes-Barre, Pa.
Application February 26, 1931. Serial No. 518,581
1 Claim. (Cl. 51—187)



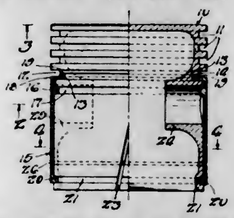
A holder for an abrading element comprising a pair of superposed sections for clamping therebetween opposite inturned portions of said element, each section having concentrically of its inner face a lengthwise extending recess of rectangular cross section opening at the ends thereof, the side walls of one recess aligning with the side walls of the other recess, the upper of said sections being formed centrally thereof with an opening extending from its outer face to and communicating with the recess in its inner face, an upper metallic plate disposed in alignment with the diametric center of said opening, extending transversely of, anchored in and having its ends abutting the side walls of the recess in the upper section, said plate being formed centrally thereof with an opening arranged in concentric relation to said other opening and having its wall threaded, a lower metallic plate extending transversely of, anchored in and having its ends abutting the side walls of the recess in the lower of said sections, said plates opposing each other and flush with the inner faces of said sections, said lower plate provided at a side edge thereof with a notch adapted to have a part of the wall thereof align with the opening in said upper plate, the bottom wall of the recess in the lower section provided centrally thereof and from end to end with a lengthwise extending groove, and means carried by said upper section and coacting with said threaded wall, notch, lower plate and groove for detachably locking said sections in clamping position whereby uninterrupted portions of and extending from one end to the other end of said inner faces will be clamped directly against said inturned portions of said element.

1,948,404
MECHANICAL POWER TRANSMISSION CHAIN
Gustave Henri Tremolieres, Neuilly-sur-Seine, France
Application January 26, 1931, Serial No. 511,389, and in France April 22, 1930
4 Claims. (Cl. 74—32)



1. A mechanical power transmission chain comprising a plurality of links stamped from sheet metal and arranged in opposed and overlapping pairs, arcuate flanges on the opposite ends of each link, the flanges on successive overlapping links extending toward each other to form substantial vertical housings, pins connecting adjacent opposed and overlapping links in longitudinal relation, rollers mounted on said pins and seated in said housings, the outer surface of each arcuate flange being in intimate contact with the outer arcuate surface of the adjacent flange, and spacing rollers mounted on said pins between the opposed and overlapping pairs of links.

1,948,405
PISTON
Harold H. Wagner, Wausau, Wis., assignor of one-half to George A. Wagner, Wausau, Wis.
Application March 13, 1931. Serial No. 522,363
1 Claim. (Cl. 309—14)



A piston comprising a main body having a series of ring-receiving grooves formed in the upper extent of its face, and having other grooves formed therein below said first-named grooves including a groove disposed near the bottom of said body, a sleeve extending over substantially less than the entire length of said body of the piston, internal flanges on said sleeve disposed in said other grooves, said body having an annular recess extending thereinto from, and opening outwardly into, the bottom of the lowest of said ring-receiving grooves, and a flange formed on the upper end of said sleeve, said flange portion consisting of two intersecting arms one shorter than the other and the shorter of said arms being disposed in said annular recess and adapted to be locked therein by a ring disposed in the lowest of said ring-receiving grooves, said last-named flange being substantially L-shaped in cross section, said cross section being considered as extended axially of said piston, and the radially outer surface of the shorter of said arms of said flange portion lying in the same plane with the outer surface of that portion of said lowest ring-receiving groove which lies above and radially outwardly from said recess, and the radially outer surface of said shorter arm cooperating with the said outer surface of said lowest ring-receiving groove to form a straight sided face for the reception of a ring, said plane being considered as being passed axially through said piston.

1,948,406
ZIPPER TAPE
Nathan Warshaw, Brooklyn, N. Y.
Application May 16, 1933. Serial No. 671,381
10 Claims. (Cl. 24—205)



10. A flexible tape to serve as a mounting for fastening elements, said tape comprising an elongated fabric strip woven to define divergent lateral extensions at one longitudinal edge, said extensions being folded back onto the opposite sides of the body of the strip and secured thereto to define a thickened edge.

1,948,407
IMPROVED PROCESS FOR THE RECOVERY OF VALUABLE CONSTITUENTS FROM HYDROGENATION CATALYSTS
Rhea N. Watts, Baton Rouge, La., assignor to Standard-I. G. Company
No Drawing. Application September 19, 1930
Serial No. 483,140
3 Claims. (Cl. 23—238)

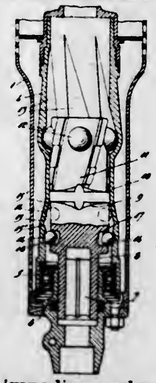
1. The method for the preparation of an active hydrogenation catalyst from spent hydrogenation catalyts containing molybdenum, which comprises roasting the spent catalyst, digesting the roasted mass with an acid solution capable of dissolving molybdic oxide, separating the solution thereof from the residue, adding to the solution an amount of alkali insufficient for neutralization whereby the molybdic oxide is precipitated, then reincorporating the recovered molybdic oxide with suitable constituents of the class of alkaline earth and rare earth oxides, carbonates, alumina, clay and asbestos.

1,948,408
METHOD OF PREPARING CATALYSTS OF INCREASED ACTIVITY
Rhea N. Watts and William E. Spicer, Baton Rouge, La., assignors to Standard-I. G. Company
No Drawing. Application October 16, 1931
Serial No. 569,260
11 Claims. (Cl. 23—236)

1. As a hydrogenation catalyst a compound of the heavier metals of the VI group of the periodic system of elements prepared by chemical precipitation from an acid solution containing between 1 and 4% excess acid.

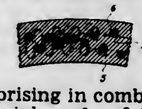
1,948,409
STRIKING TOOL
Ernst Hjalmar Waloddi Weibull, Saltsjobaden, near Stockholm, Sweden, assignor to Svenska Hammaraktiebolaget, Stockholm, Sweden, a company limited of Sweden
Application May 7, 1932, Serial No. 609,932, and in Sweden May 12, 1931
12 Claims. (Cl. 125—33)

1. In a striking tool, a striking member, means for imparting a reciprocating motion to said striking member, an axially movable anvil engageable by said striking member, a rotatable member, means for imparting a rotary motion to said rotatable member, and means adapted to act on the anvil in response to centrifugal force developed incident to the rotation of said rotatable member



so as to effect an impeding and eventually arresting action upon the anvil during its recoil motion.

1,948,410
HOSE
Frederick Beasley Williamson, Jr., Elizabeth, N. J., assignor to The Whitehead Bros. Rubber Co., Trenton, N. J., a corporation of New Jersey
Application June 13, 1931. Serial No. 544,257
2 Claims. (Cl. 137—90)



2. A hose comprising in combination, a body of rubber-like material, and a fabric embedded in said body and comprising warp and weft threads of fabric and a helical resilient coil of wire, forming interstices between them, portions of said body of rubber-like material having been passed through said interstices in said fabric while said coil is deformed by untwisting, and subjected to the pressure of said coil due to its tendency to return to its normal condition.

1,948,411
ENDLESS BELT AND SEAM CONSTRUCTION THEREFOR
Eduard v. Asten, Eupen, Belgium
Application January 23, 1931. Serial No. 510,814
6 Claims. (Cl. 24—33)

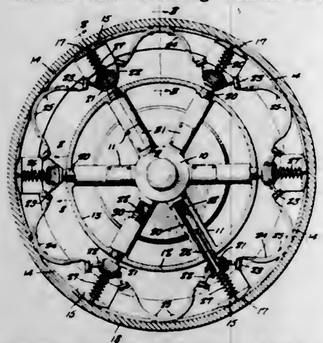


1. A multiply woven drier felt for paper machines comprising integrally woven upper and lower plies and having end portions in which the plies are separately woven to provide independent upper and lower end sections, means connecting one pair of end sections in abutting relation to join the ends of the felt, the other pair of end sections being independent of the connecting means and overlying the joint so formed to present a substantially smooth and continuous surface.

1,948,412
SPRING OR RESILIENT WHEEL
Moses Edwin Bennett, Detroit, Mich., assignor of one-fourth to Fred Blackwell and one-fourth to Fred Carmon, Detroit, Mich.
Application August 25, 1933. Serial No. 686,830
4 Claims. (Cl. 152—47)

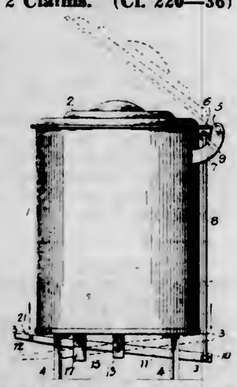
1. In a wheel construction, a hollow spoked hub, adjustable barrels mounted in the spokes, a felly

formed with the spokes, a tire shoe demountable upon said felly, inwardly arched springs swiveled with the barrels and working within the shoe,



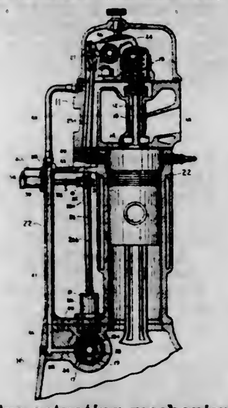
saddles having plungers slidably fitted in the barrels, means for tensioning the plungers, and outwardly arched springs linked with said inwardly arched springs.

1,948,413
RECEPTACLE AND COVER OPERATING MECHANISM THEREFOR
Charles Carola, deceased, late of New York, N. Y., by Clara V. Carola, administratrix, New York, N. Y.
Application May 23, 1932. Serial No. 613,124
2 Claims. (Cl. 220—36)



1. In a receptacle and associated cover and cover-operating mechanism, in combination, a receptacle body, a cover for the receptacle, a bracket extending rearwardly from the upper portion of the receptacle body, a hinge connection between the cover and bracket at a point spaced in the rear of the receptacle body, a substantially perpendicular link hingedly connected with the cover between the said hinge connection and the receptacle body, a substantially horizontal lever beneath the receptacle having one end loosely connected with the lower end of the said link, a pivotal support for said lever intermediate its ends, a forward extension of said lever adapted to serve as a treadle, and a latch secured beneath the receptacle and provided with a plain horizontal surface beneath which the forward arm of the lever may be placed by lateral movement when the cover is held in open position, and from which the lever may be disengaged when desired by horizontal movement in reverse direction, without depressing the treadle, for permitting the cover to close by gravity when desired, said latch and horizontal surface being associated with adjacent vertical guides adapted to limit the movement of the lever in a horizontal direction, and being also associated with a second horizontal surface suitably positioned below the first-mentioned horizontal surface and adapted to limit the downward movement of the lever.

1,948,414
VALVE ACTUATING MECHANISM
Harold D. Church, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a corporation of Ohio
Application July 3, 1930. Serial No. 465,474
5 Claims. (Cl. 123—90)

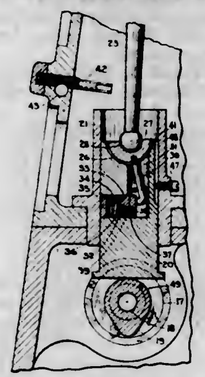


3. In a valve actuating mechanism, a train of elements transmitting the valve opening and closing movements including a member movable with the remaining elements in said train to transmit the valve opening and closing movements, and separably movable to vary the operative length of said train, said member being so mounted that it is impelled to move in a direction to decrease the operative length of said train of mechanism by the thrust imposed thereon during the valve opening and closing periods, and being so arranged with respect to the other elements of said train that the force imposed thereon to overcome the resistance offered to its movement in the aforesaid direction is less than the thrust transmitted by said train, a brake retarding movement of said member in a direction to decrease the operative length of said train, and offering sufficient resistance to insure the transmission by said train of the thrust necessary to valve actuation, and means for moving said member in a direction to increase the operative length of said train upon removal from said train of all thrust incident to the opening and closing of the valve.

1,948,415
VALVE ACTUATING MECHANISM
Rolland M. Cooper, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a corporation of Ohio
Application August 4, 1930. Serial No. 472,843
3 Claims. (Cl. 123—90)

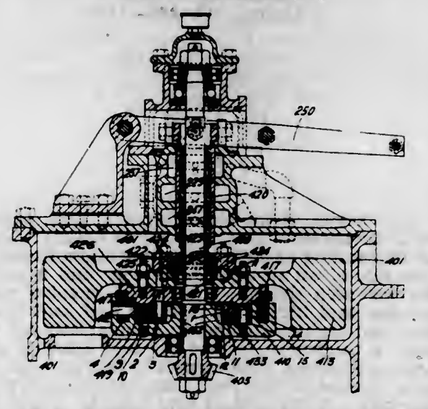
1. In a valve actuating mechanism, a train of elements transmitting the valve opening and closing movements including a member movable with the remaining elements in said train to transmit the valve opening and closing movements, and separably movable to vary the operative length of said train, said member being so

mounted that it is impelled to move in a direction to decrease the operative length of said train of elements by the thrust imposed thereon during the valve opening and closing periods, and being so arranged with respect to the other elements of said train that the force imposed thereon to overcome the resistance offered to its movement in the aforesaid direction is less than the thrust transmitted by said train, a fluid brake carried by said train arranged and designed to retard movement of said member in a direction to de-



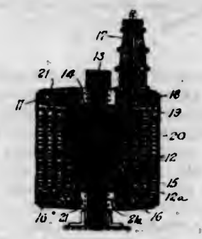
crease the operative length of said train, and offering sufficient resistance to insure the transmission by said train of the thrust necessary to valve actuation, said fluid brake comprising a body of fluid placed under pressure in resisting the movement of said member in a direction to decrease the operative length of said train, means through which fluid from said body of fluid slowly escapes when said body of fluid is placed under pressure as aforesaid, and means for increasing said body of fluid when the pressure imposed thereon by said member is removed.

1,948,416
INERTIA GOVERNOR
William Eccles, Cheriton-Cum-Hardy, England, assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application March 12, 1932, Serial No. 598,475, and in Great Britain March 17, 1931
2 Claims. (Cl. 264—11)



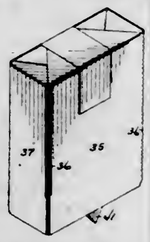
1. In an inertia governor comprising a member mounted for rotation about a fixed vertical axis by apparatus to be governed in accordance with the speed thereof and having an upstanding rim defining an annular chamber for damping liquid, a ring member fitting in said rim and having a flange projecting inwardly from the upper end of said rim and abutments depending into said annular chamber, a fly-wheel member coaxially surrounding said rotatable member and freely rotatable with respect thereto but constrained within predetermined limits of rotation relative to the rotatable member to move axially relatively to the latter in opposition to gravity when a change occurs in the angular velocity of the rotatable member, a valve operable by the axial movement of said fly-wheel member for controlling the supply of operative fluid to a brake engine acting upon the apparatus to be governed, damping means between said rotatable member and said fly-wheel member, said damping means comprising an annular member disposed in the annular chamber in the rotary member and rotatable with the fly-wheel but constrained against axial movement therewith, said annular member having radial projections located in the annular chamber between the abutments of the ring member with their ends spaced slightly from the circumference of said annular chamber to afford clearance for rotation of the annular member relatively to the rotatable member in either direction, said radial projections each having a passageway therethrough constituting with the radial clearance between said annular and rotatable members the only conduits for the passage of damping liquid from the spaces on one side of said radial projections to the spaces on the other side of said radial projections, and means including screw plugs extending transversely of said passageways for adjusting the cross-sectional areas of said passageways.

1,948,417
HIGH POTENTIAL TRANSFORMER
Franz Joseph Fischer, Dresden, Germany, assignor to Koch & Sterzel Aktiengesellschaft, Dresden, Germany, a German company
Application April 23, 1930, Serial No. 446,622, and in Germany April 30, 1929
8 Claims. (Cl. 175—356)



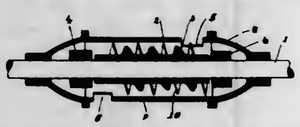
1. A high potential transformer with a single part coil spool of insulating material having the shape of a yarn spool, a high potential winding wound in layers in the coil spool over its whole axial length and the layer ends of which rest on the coil spool flange, a lead-out of the inner layer end through the flange of the coil spool and through an insulator combined in one part with the coil spool flange and carrying at its end the high potential connection, said high potential connection situated eccentrically to the axis of the insulating medium, a connection of the outer layer end to the earth, an iron core which is carried through the coil spool bore and a low potential winding.

1,948,418
COMBINED CIGARETTE AND MATCH PACKAGE
Ernest S. K. Fung, Honolulu, Territory of Hawaii
Application June 13, 1933. Serial No. 675,622
1 Claim. (Cl. 206—48)



A combined package cover and cigarette container comprising a blank scored to provide front, back, side and bottom walls, a tab foldably connected with the back wall, a tab foldably connected with the adjacent side wall and foldable down upon and adhesively secured to the first said tab, a strip of matches carried by the first said tab, and a flap secured to the front wall at one end and foldable down over the strip of matches and having a releasable interlocking connection with the latter consisting of a tapered flap having a plurality of reverse folds, the folded portion of said flap being inserted between the match strip and the front wall.

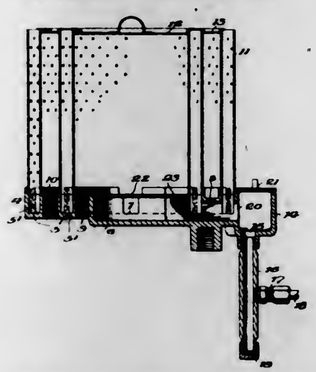
1,948,419
METHOD OF AND MEANS FOR THE MAGNETIC SEPARATION OF MATERIALS
Bartel Granigg, Leoben, Austria
Application June 10, 1930, Serial No. 460,247, and in Austria September 2, 1929
10 Claims. (Cl. 209—221)



1. The process of separating materials of different magnetic permeability which consists in generating a helical magnetic field the lines of force of which run radially, rotating the said field around its axis, introducing the said materials into the said field at one end thereof, mechanically conveying the said material continuously towards the other end of the said field, lifting out the magnetizable particles of the said material from the remainder thereof by magnetically conveying the same for rotation with the said field, weakening the said field along a fixed region crossing the thread of the rotating helical field, detaching the said particles in the said region from the said field and discharging the said particles from the said field intermediate the two ends thereof, and mechanically discharging the said remainder from the said field at the opposite end thereof to that at which the said materials are introduced.

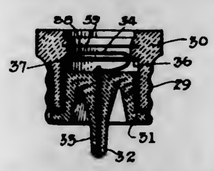
2. A device for separating materials of different magnetic permeability, comprising in combination with a slotted iron casing an axle of magnetic material adapted to be rotated within the said casing, a helical body or bodies attached to the said axle, magnetic connection between the said axle and the said casing, and means, such as coils, for magnetizing the said helical body or bodies, the said means being so disposed that the outer edge of the said helical body or bodies constitutes the pole of a magnetic system the lines of force of which traverse the gap between the said outer edge and the said casing.

1,948,420
OIL BURNER
Allen Hofstatter, Hartford, Conn., assignor to Associated Oil Burner Co., Inc., Hartford, Conn., a corporation
Application August 4, 1932. Serial No. 627,511
2 Claims. (Cl. 158—87)



1. An oil burner including a burner base embodying a central vapor distributing chamber and space concentric vapor grooves communicating with each other and with the chamber, an open top vaporizer formed on the external wall of the outer groove and in direct communication with said distributing chamber, a removable closure plate for the vaporizer and an oil inlet pipe leading into the bottom of the vaporizer.

1,948,421
FUSE
Justus Le Roy Johnson, Lynwood, and Martin Geissler, South Gate, Calif.
Application November 22, 1932
Serial No. 643,941
1 Claim. (Cl. 200—119)

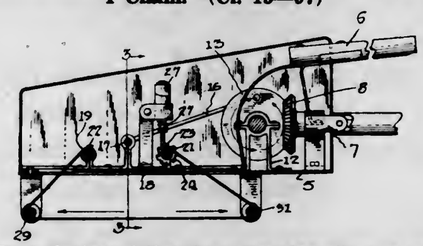


In a device of the character described, adapted to cooperate with an electrical fixture having an upstanding annular projection and a threaded element, of an insulating member and a bushing mounted therein, a threaded member connecting said insulating member and said bushing, said bushing having an annular tapered recess, a projection formed on said bushing and centrally located with respect to said annular recess, the end of said projection extending beyond the plane of the end of said bushing, a pin extending through said projection, and means for completing an electric circuit between said threaded member and said pin.

1,948,422
COMPOSITION FOR RECONDITIONING WOOD, ABRASED SPIKE HOLES IN RAIL SLEEPERS, OR FOR FILLING OTHER HOLES AND FOR SIMILAR PURPOSES
Sri Krishna, Dehra Dun, United Provinces, British India
No Drawing. Application September 7, 1932, Serial No. 631,996, and in India September 7, 1931
4 Claims. (Cl. 106—8)

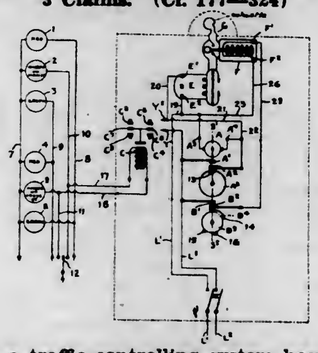
1. A process of manufacturing a composition of matter for reconditioning wood, abrased spike holes in rail sleepers and for other similar purposes, according to which from 50 to 57 parts of asphalt are first mixed with 7 to 12 parts of rosin at a temperature of 240° to 250° C., secondly, approximately five parts of powdered sulphur are gradually added to this mixture, thirdly, a solution of rubber in a fatty oil, such as castor oil, is added to the sulphurized mixture of asphalt and rosin, and the mixture finally vulcanized by heating with sulphur.

1,948,423
POLISHING DEVICE
Jose C. Lecuona, Stockton, Calif.
Application October 4, 1932. Serial No. 636,206
1 Claim. (Cl. 15—97)



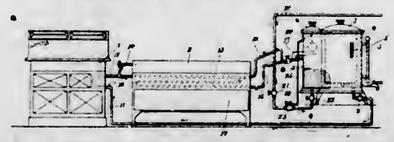
In a device of the character described, a casing, a reciprocating slide carried on said casing, a pair of arms depending from said casing, a pair of rollers carried by said arms, a pair of rollers secured to said slide, a polishing element extending between said rollers and having its ends attached to said rollers and passed over the rollers secured to said casing, and means for rotating one of said rollers on said slide whereby the polishing element may be stretched between said rollers on said slide and over said rollers carried by said arms.

1,948,424
TRAFFIC CONTROLLING SYSTEM
Harry J. Littlefield, East Rockaway, N. Y.
Application April 1, 1930. Serial No. 440,700
3 Claims. (Cl. 177—324)



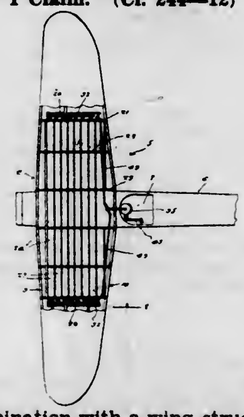
1. In a traffic-controlling system having neutral period lights in two-directions, an audible signal device, electrical means for automatically causing said device to emit audible signals at the beginning and end of the aforesaid neutral period, a relay and means through which said relay controls said electrical means, said relay being designed to operate upon a current less than that required to give visibility to the neutral period lights, and a circuit for said relay fed from that of the lighted neutral period lights and including the dead neutral period lights in series resistance with the relay.

1,948,425
HOT WATER CIRCULATING SYSTEM
De Ella B. Mayberry, Detroit, Mich.
Application April 28, 1932. Serial No. 608,082
5 Claims. (Cl. 126—33)



1. In a hot water system, the combination of a heating element, a steam table, a coffee urn having a water jacket, a water receiving means for communication with and for supplying hot water to said jacket, a water supply line opening into the bottom of said means, a regulating valve in said line, a float operated lever mechanism for said valve and having the float thereof arranged in said means, a water circulating line leading from said jacket to said means and provided intermediate its ends respectively with an offset portion extending into said heating element and with a heating coil for and for positioning within the steam table, and an overflow pipe connected to said circulating line adjacent to one end of said coil.

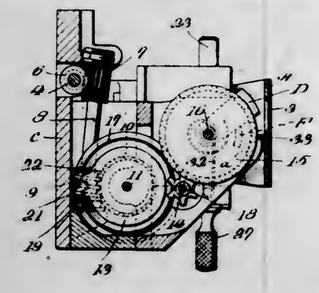
1,948,426
AIRCRAFT
William F. McBride, Shreveport, La.
Application December 28, 1932
Serial No. 649,210
1 Claim. (Cl. 244—12)



The combination with a wing structure having a leading edge, a trailing edge, an under surface and an upper surface, of a plurality of relatively small cells located in the wing structure and entirely closed excepting at their upper ends which open out through the upper surface and in which cells a vacuum is created by the air passing over said upper surface, adjustable shutters in the openings, said shutters, when closed,

forming a part of said upper surface, each shutter being pivotally connected at its forward edge to the front wall of the opening in a cell and opening downwardly into a cell and means for operating the shutters and locking the same in adjusted position.

1,948,427
OIL MILEAGE INDICATOR
Arnold H. Meecker, Homewood, Ill.
Application December 2, 1932. Serial No. 645,461
18 Claims. (Cl. 40—41)



1. For use with a motor vehicle, a motor oil change indicator, comprising a cyclometer adapted to be manually set at a given mileage total and to be operated automatically by the movement of said vehicle to subtract from said mileage total showing, and a signal movable over and concealing the mileage indication of said cyclometer upon the travel of the vehicle a set number of miles.

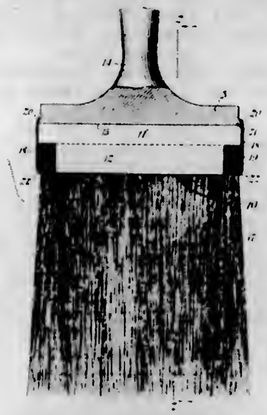
1,948,428
MULTIFILAMENT LAMP
Carl Rebl, Brooklyn, N. Y.
Application August 23, 1933. Serial No. 686,449
3 Claims. (Cl. 176—26)



1. An incandescent lamp comprising a relatively long, tubular, sealed glass body, filament supports made of insulating material located within and extending in spaced relation to each other along the glass body, an electric conductor located within the filament supports, filament connections projecting from the said conductors and supports, and filaments extending between and connected to the filament supports of each conductor.

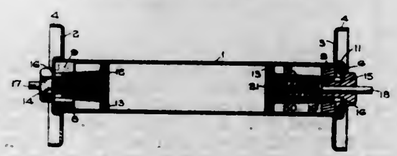
1,948,429
BRUSH CONSTRUCTION
Edward E. Robinson, Belleville, N. J.
Application November 10, 1933
Serial No. 697,508
1 Claim. (Cl. 15—204)

In a brush, a handle, bristles, a plug made of flat rigid material, said handle having a groove in its head, an edge portion of the plug fitting in said groove and being secured to the head, the remaining portion of the plug being of less width than said head and being compactly surrounded by the butt ends of the bristles, said butt ends being bonded together with said plug,



and a ferrule secured to said head and embracing the butt ends of the bristles.

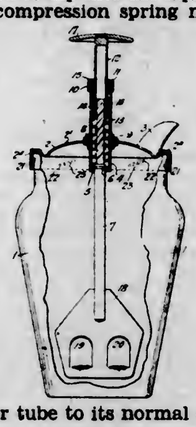
1,948,430
MEANS FOR SECURING FLANGES TO BOBBINS
John Edward Robinson, Kidderminster, England
Application July 28, 1932, Serial No. 625,504, and in Great Britain August 14, 1931
9 Claims. (Cl. 242—124)



2. A bobbin comprising a tubular barrel, a pair of separately formed bobbin end flanges, and means for securing each of said flanges to said barrel, such means comprising a screw member for carrying a flange and positioning it relative to the barrel, a tapered nut member housed within said barrel and traversable axially upon rotation of said screw member, and an expansible ring on said nut member and capable of outward expansion into engagement with the interior of the barrel upon axial movement of said nut member.

1,948,431
MIXING DEVICE
William Mair Rolph, Piccadilly, London, England
Application March 9, 1933, Serial No. 660,175, and in Great Britain July 26, 1932
2 Claims. (Cl. 259—117)

1. Apparatus for mixing liquids comprising in combination a liquid container, a cap or lid therefor, a tube forming a plunger device, a rod, an Archimedean or quick pitch screw on one end of said rod, means within said tube for forming a sliding bearing for said Archimedean or quick pitch screw, a second rod telescoping within the first mentioned rod, means for locking the two rods together at any desired height in the container, at least one vane on said second rod and adapted to dip into the liquid in the container and a compression spring normally biasing the plunger tube to its normal or inoperative position.



1,948,432
WINDOW SHADE
Samuel E. Snyder, Brooklyn, N. Y.
Application December 9, 1932, Serial No. 646,542, and in Canada December 17, 1931
3 Claims. (Cl. 156—27)



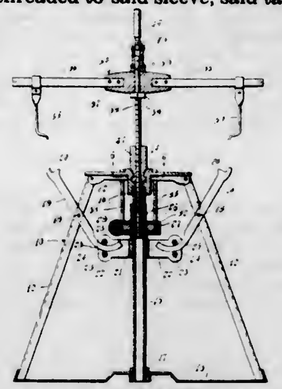
1. In combination with a spring roller for window shades, a governor comprising a tube loosely mounted on said roller in spaced relation thereto, means fixedly securing said tube to the window moulding, a fissure formed in said tube, a collar mounted on said roller within said tube, adjusting means carried by said collar for securing the collar in frictional contact with the roller, and a hook suspended from said collar for engagement with the fissure of said tube through the action of centrifugal force upon rotation of said collar.

1,948,433
METHOD OF MAKING CEMENT
Willoughby E. Snyder, Allentown, Pa.
No Drawing. Application March 30, 1933
Serial No. 663,577
15 Claims. (Cl. 106—25)

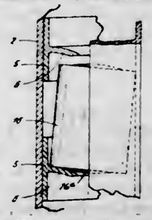
1. In the making of Portland cement and preparatory to clinkering, the providing of raw material having a lime base, subjecting said material to a temperature such as will convert the lime base to an oxide but insufficient to produce hydraulic properties in the heat-treated material, and then subjecting the heat-treated material to hydration while said material is in the physical condition as the result of the heat-treatment thereof.

1,948,434
AUTOMOBILE TIRE CHANGING MACHINE
Robert S. Stafford and Joseph Schrag, San Antonio, Tex.; said Schrag assignor to said Stafford
Application November 30, 1932
Serial No. 645,100
3 Claims. (Cl. 157—6)

1. A tire changing machine having a frame provided with a table, rim engaging arms pivoted to the frame, a spider to actuate said arms, means to operate the spider, said spider having openings, and said arms having arcuate portions received in said openings and actuated thereby, a screw-threaded sleeve on the spider, gearing having a member threaded to said sleeve, said table having a socket, a nut detachably connected to said socket, a screw member threaded to the nut, and tire-engaging means carried by the screw member.

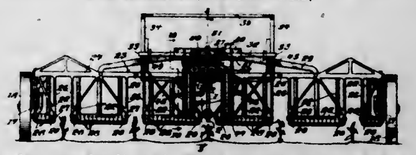


1,948,435
CAN HANDLING APPARATUS
Albert R. Thompson, San Jose, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 14, 1932, Serial No. 611,424
Renewed July 17, 1933
8 Claims. (Cl. 198—212)



1. A can handling mechanism comprising a fixed helical can propelling rail along which the cans are advanced with their rims in contact with the face thereof, the face of said rail being inclined away from the ends of cans propelled therealong, and a reel for advancing cans along the rail with their rims in contact therewith and their heads clearing the rail.

1,948,436
CULTIVATOR
Sherman H. Bearden, Cass Station, Ga.
Application February 2, 1933. Serial No. 654,958
3 Claims. (Cl. 97—152)



1. An agricultural implement comprising a main beam, a combined supporting and steering means for the beam, a sectional straddle row frame having each section hinged to the beam and arranged at opposite sides of the latter, ground wheels supporting the frame, an adjust-

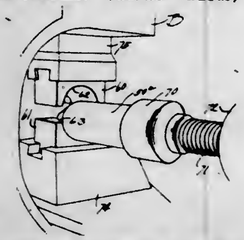
ing beam slidable relative to the main beam and including intermediate and end sections hingedly connected, auxiliary depending frames on said adjusting beam, ground engaging elements extending through and engaging the auxiliary frames and pivotally and slidably connected to the sectional frame, a yoke pivoted to the adjusting beam, means for adjusting the ground engaging elements relative to the auxiliary frame, and means connected to the yoke for sliding the adjusting beam endwise in either direction or vertically.

1,948,437

PROCESS OF PRODUCING CYLINDERS

John Frederick Bowers, Harrisburg, Pa., assignor to Harrisburg Pipe and Pipe Bending Company, Harrisburg, Pa., a corporation

Application August 25, 1931. Serial No. 559,333
15 Claims. (Cl. 29—148.2)



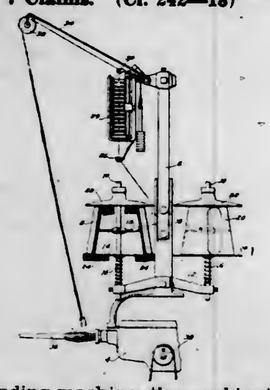
1. The process of forming a forged steel hollow tube which consists in initially forming a tubular body, reducing an end of the body by die stamping under forging temperatures with a die having a true frustro-conical passageway therethrough to produce a thicknened neck, and subsequently completing the necking of the article and the formation of a passageway through said neck.

1,948,438

WINDING MACHINE

Robert L. Brunet, Providence, Henry Bracewell, Pawtucket, and Frederick A. Jenckes, Wickford, R. I., assignors, by mesne assignments, to Manville Jenckes Corporation, a corporation of Delaware

Application March 24, 1930. Serial No. 438,344
7 Claims. (Cl. 242—18)



1. In a winding machine, the combination with means for winding thread, of a device for supporting a cake of rayon thread having the shape substantially of a truncated cone from which the thread is to be wound comprising a vertically arranged spindle, a spring pressed platform slidably mounted on the spindle, an expander member rigidly secured to the spindle above the said platform, a collapsible band adapted to cover substantially the whole inner surface of the cake acting when placed over the expander member to expand the cake to substantially the shape of a truncated cone, a disk-shaped member fitted on the spindle above the cone having a diameter greater than the outside diameter of the upper end of the cone, and a thread guide through which the thread is drawn for winding from the cake located directly above the spindle.

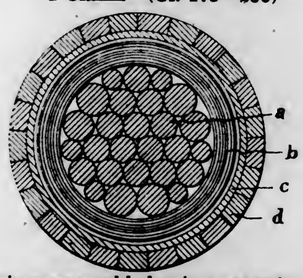
7. In a winding machine, the combination with means for winding thread from a hollow mass, of a device arranged to receive and support said mass comprising a vertical spindle, a circular expander member secured to the spindle, a collapsible band having the shape of a truncated cone adapted when expanded to engage with substantially the entire inner surface of the thread mass, and a weighted positioning member slidably mounted on the spindle arranged to engage with the small upper end of the cone-shaped band to clamp the band and thread mass supported thereon in a substantially circular position on said expander member.

1,948,439

ELECTRIC POWER CABLE

Michael Büdscheid, Cologne-Holweide, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany

Application November 1, 1926, Serial No. 145,606, and in Germany April 12, 1926
1 Claim. (Cl. 173—266)



Electric power cable having paper impregnated insulation, a lead sheathing, an armouring and a copper conductor comprising a plurality of layers of round wires, the wires of the adjacent layers being laid with the same pitch, the outermost layer of said conductor containing compensating wires having a smaller diameter than the wires of the inner layers, and also comprising wires of larger diameter than the wires of the inner layers so that the conductor has a close, substantially circular cross section.

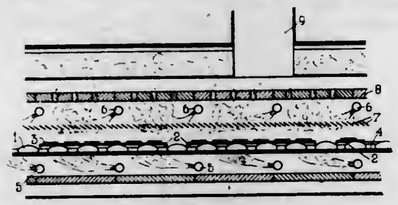
1,948,440

OVEN FOR BAKING

Edward Milner Crosland, Earlestown, Newton-le-Willows, England, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company

Application February 6, 1933, Serial No. 655,532, and in Great Britain July 30, 1932
1 Claim. (Cl. 107—57)

In a baking oven, a false perforated roof located within the oven and spaced from the top thereof, a false floor plate located within the oven and spaced from the bottom thereof, a louvred metal sheet located between said false perforated roof and said false floor plate, means for carrying the goods to be baked through the space between said louvred metal sheet and said false floor plate, a series of heating devices lo-



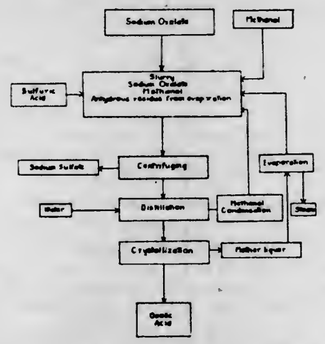
cated in the space below said false floor plate, and an additional series of heating devices located in the space between said false perforated roof and said louvred metal sheet.

1,948,441

MANUFACTURE OF OXALIC ACID

Hans C. Duus, Greenville, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application February 27, 1932. Serial No. 595,448
13 Claims. (Cl. 260—118)



1. In a process of making oxalic acid from an alkali metal oxalate in which the alkali metal oxalate is treated in solution with an acid, the step which comprises effecting the treatment in an organic liquid medium containing an acidic compound selected from the group consisting of highly ionizable mineral acids and highly ionizable mineral acid anhydrides, the solution of the acidic compound and the organic liquid medium being a solvent for oxalic acid and the compounds thereof formed in said solution and substantially a non-solvent for the alkali metal salt of the acidic compound.

1,948,442

SIZED PAPER CARRYING A SYNTHETIC RESIN OF PETROLEUM ORIGIN AND PROCESS OF MAKING SAME

Carleton Ellis, Montclair, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 24, 1931
Serial No. 564,975
12 Claims. (Cl. 92—21)

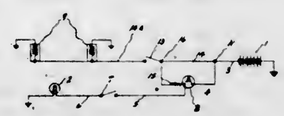
1. Paper having an incorporated synthetic super-resin of petroleum origin.

1,948,443

MOTOR VEHICLE ELECTRIC SYSTEM

Edward E. Huntington, Toledo, Ohio, assignor to The Willys-Overland Co., Toledo, Ohio, a corporation of Ohio

Application September 4, 1926. Serial No. 133,684
1 Claim. (Cl. 177—311)



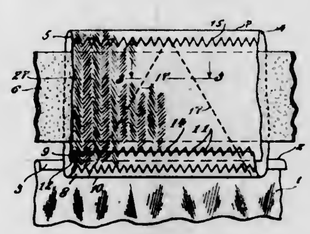
A tell-tale device for an automobile fuel vaporizer, said automobile having a storage battery and an electrical device requiring a small current included in the normal circuit, said normal electric circuit for the automobile having an ammeter connected therein, an electrical fuel vaporizer including electrical means requiring a large current and an independent circuit from the source of energy for the vaporizer including a switch and a low value resistor, a shunt circuit across said resistor comprising a high value resistor and the ammeter in series.

1,948,444

GARMENT SUPPORTING BAND

Andrew J. Krein, Baltimore, Md.

Application October 4, 1933. Serial No. 692,101
2 Claims. (Cl. 2—237)



1. In a garment supporting band a flat tube of stretchable textile fabric, a strip of sheet rubber within the tube extending longitudinally thereof, transverse stitching at the ends and intermediately of the length of the band extending through the fabric and the rubber and serving to anchor the rubber to the fabric, said anchored portions being spaced in the direction of the length of the band and the rubber being free of attachment to the fabric between said anchored portions, the free portion of the rubber constituting the major portion of the length of the band, said anchor stitching serving to hold the rubber near the center of the tube and lines of stitching extending longitudinally at each edge of the tube, said lines of stitching consisting of mainly laterally spaced stitches, the rubber being spaced from said lines of stitching to provide for shrinkage of the tube without distortion of the rubber, said longitudinal lines of stitching engaging both walls of the tube and connecting them together, the longitudinal lines of stitching serving to support the edges of the tube beyond and independently of the rubber, the freedom of the main portion of the rubber from attachment to the tube serving to prevent creasing of the rubber in pressing and crinkling of the tube.

1,948,445
ELECTRON EMITTING BODY AND THE PROCESS FOR ITS MANUFACTURE

Anton Lederer, Vienna, Austria; Catherine Danzer and General Conrad Randa, executors of said Anton Lederer, deceased, assignors to Ernest Anton Lederer, Glen Ridge N. J.

No Drawing. Application November 18, 1927, Serial No. 234,289, and in Austria April 12, 1927

3 Claims. (Cl. 250—27.5)

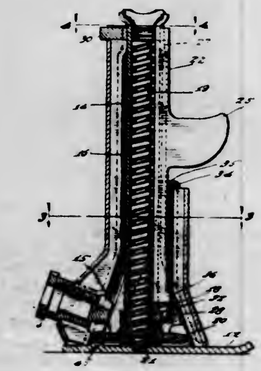
1. The process of making an electron emissive cathode which has a more constant and more lasting electron emission than "thoriated tungsten", which process comprises forming an intimate mixture at least containing thorium and osmium of which there is between 100 and 50 times more osmium than there is thorium, heating said mixture in a non-oxidizing environment to a temperature above the melting point of thorium to form an intimate and uniform alloy between the thorium and osmium, and then raising the temperature close to the melting point of osmium whereby the mixture is consolidated and becomes uniform to give a resulting body which is pliable in the cold state.

1,948,446
JACK

Quintin G. Noblitt and Earl C. Booth, Indianapolis, Ind., assignors to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana

Application January 26, 1932. Serial No. 589,005

12 Claims. (Cl. 254—98)



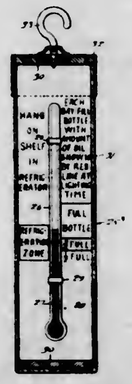
1. A screw jack, comprising a housing having a base and hollow vertical standard both formed of sheet-metal, a screw disposed vertically within said standard, a thrust-bearing acting between said screw and said base, a lifting member vertically slidable in said housing and having screw-threads co-operating with those of said screw, a gear mounted on the lower end of said screw for rotation therewith, and a pinion mounted in said housing above and in position to mesh with said gear, said base and standard being provided with indentations extending inwardly of said housing and positioned to engage opposite faces of said gear to maintain it in proper meshing relation with said pinion.

1,948,447
FUEL SUPPLY INDICATOR FOR REFRIGERATORS

Marc Resek, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio

Application July 20, 1932. Serial No. 623,562

10 Claims. (Cl. 62—118)



1. In an intermittent absorption refrigerator involving heating means requiring the supplying of the heating medium thereto at predetermined intervals of time according to a prescribed schedule, such intervals marking the beginnings of the cycles of operation; means subjected to and influenced by the condition of the cooling unit for indicating at the conclusion of one cycle the heating medium requirements of said heating means for the ensuing cycle.

1,948,448
TURBINE BLADE

Wilhelm Rohn, Hanau-on-the-Main, Germany

No Drawing. Application October 7, 1930, Serial No. 487,083, and in Germany June 2, 1928

4 Claims. (Cl. 253—77)

1. A turbine blade made of an alloy consisting of iron 46 to 98.5%, nickel 39 to 0.5%, metals of the sixth group of the periodic system of the elements having a melting point above 2,000° C. 15 to 1%, and carbon less than 0.04%.

1,948,449
ANTIKNOCK MOTOR FUEL

Ludwig Rosenstein, San Francisco, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 21, 1930 Serial No. 422,286

9 Claims. (Cl. 44—9)

1. A motor fuel for internal combustion engines comprising a hydrocarbon fuel and an organic derivative of a metallo-cyano acid.

4. A motor fuel for internal combustion engines comprising a hydrocarbon fuel and an organo-metallo compound of the general formula $R—M_xY_z(CN)_{6-z}$, wherein R represents an organic substituent, M represents a metallic element, Y represents a univalent radical and x and z represent the combining values of the elements and radicals respectively.

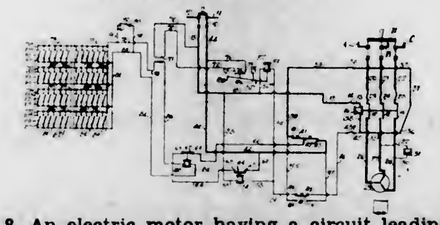
6. A hydrcarbon fuel for internal combustion engines comprising a salt of a metallo-cyano acid with an alkylamine.

1,948,450
ELECTRIC CIRCUIT FOR CONTROLLING MOTORS

Ernest K. Whitener and Thomas F. Suggs, Gastonia, N. C., assignors to Cocker Machine and Foundry Company, Gastonia, N. C., a corporation of North Carolina

Application December 22, 1932 Serial No. 648,464

18 Claims. (Cl. 172—179)



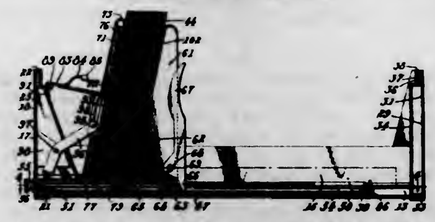
8. An electric motor having a circuit leading thereto and a normally open switch in said circuit, a switch control circuit having electro-magnetic means therein for closing said switch, a manually operable switch in said switch control circuit, an auxiliary circuit shunted around the manually operable switch, a second auxiliary circuit shunted around the manually operable switch, switch control circuit after the manually operable upon closing of the manually operable switch for establishing the second auxiliary circuit around the manually operable switch for maintaining the switch control circuit after the manually operable switch is opened, a branch circuit connected to opposite sides of the switch control circuit and having means operable thereby when closed for breaking the switch control circuit.

1,948,451
LEDGER TRAY

Carl F. Wolters, Marietta, Ohio, assignor to Remington Rand Inc., Buffalo, N. Y.

Application January 12, 1932. Serial No. 586,251

16 Claims. (Cl. 129—16)



15. A ledger tray having bottom and front walls, a compressor mounted adjacent the front wall for limited pivotal movement in the tray, a plate member slidable longitudinally on the bottom of said tray, a follower adjustably mounted on said plate member, and means connecting said compressor and plate member operable to move the plate member longitudinally in the tray in one direction in the movement of the compressor in an opposite direction.

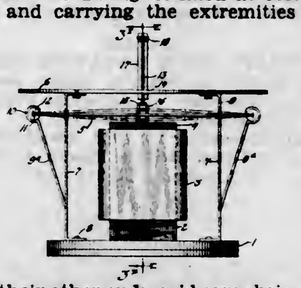
1,948,452
VIBRATORY ELECTRIC MOTOR

Walter H. Young, Detroit, Mich.

Application October 11, 1933. Serial No. 693,192

16 Claims. (Cl. 175—338)

1. An electric reciprocating motor comprising an electro-magnet, a leaf spring positioned for flexure of its mid portion to and from said magnet, and a pair of flexible arms positioned at opposite sides of said magnet fixed at corresponding ends and carrying the extremities of said



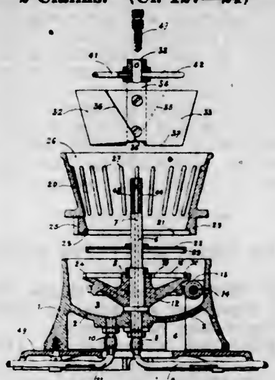
spring at their other ends, said arms being flexible to and from the magnet to compensate for flexure of said spring to and from the magnet.

1,948,453
APPARATUS FOR MECHANICALLY PREPARING GLUTEN FROM FLOUR

Pierre Barbade, Corbeil, France, assignor to Etablissements Tripette & Renaud Fils, Paris, France, a corporation of France

Application January 19, 1933, Serial No. 652,517, and in France December 24, 1932

2 Claims. (Cl. 127—24)



1. In an apparatus for mechanically preparing gluten from flour, having a revolving washing trough, stationary wings inside said trough, contacting with the inner surface thereof, and stationary water tubes above the wings, the arrangement of a hollow base, a transverse partition in the base and a stationary shaft extending upward from the center of the partition, in combination with a driving member loose on the shaft, a recess and annular flange in the upper face of the driving member, a conical washing trough with recessed lower face supported by the driving member, a removable bottom for the trough fitting in the recess of the driving member, and stud and notch connection between the driving member, the washing trough and the removable bottom thereof.

1,948,454
FERTILIZER MANUFACTURE

Charles L. Burdick, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 18, 1931 Serial No. 545,373

3 Claims. (Cl. 71—7)

1. The process of producing a fertilizer which comprises treating a superphosphate with an-

hydrous ammonia to the extent of substantially 4% nitrogen incorporation and thereafter treating the same with aqua ammonia.

1,948,455
AIRCRAFT WITH ROTATIVE WINGS

Juan de la Cierva, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application December 18, 1929, Serial No. 414,901, and in Great Britain March 4, 1929
27 Claims. (Cl. 244—19)



2. An aircraft, having as its primary sustention means, a system of pivotally and rotatably mounted sustaining wings or blades arranged for normal actuation by relative air-flow so as to provide for relatively slow translational flight and even vertical descent of the craft; a mounting structure for the rotative blades disposed above the body of the craft to provide substantially a single point of pendular support therefor, supplemental and normally fixed lifting wings extended at opposite sides of the craft below the rotor, sharply upwardly and outwardly inclined automatic lateral stabilizing surfaces carried by said supplemental fixed wings, and manually controllable lateral stabilizing surfaces also carried by said fixed wings, whereby a substantial degree of automatic lateral stability is afforded by said sharply inclined surfaces even in relatively slow translational flight or vertical descent, and whereby additional manual lateral control is afforded by said controllable surfaces.

1,948,456
AIRCRAFT WITH ROTATIVE SUSTAINING BLADES

Juan de la Cierva, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application November 20, 1930
Serial No. 496,872
47 Claims. (Cl. 244—19)



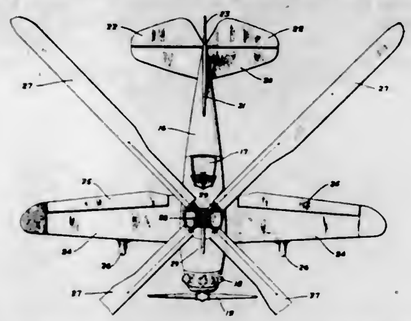
1. In an aircraft, an axis structure, a plurality of sustaining blades mounted for common rotation thereabout, means permitting displacement of the blades, in the general plane of rotation, from their radial positions with respect to the axis, and stop means fixedly determining the limits of such displacement.

1,948,457
AIRCRAFT SUSTAINING ROTOR

Agnew E. Larsen, Huntingdon Valley, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application June 29, 1931. Serial No. 547,691
25 Claims. (Cl. 244—19)

1. In an aircraft having a sustaining blade mounted for rotation about a substantially vertically disposed axis, a blade joint providing for movement in addition to the rotary movement substantially within the general path of rotative

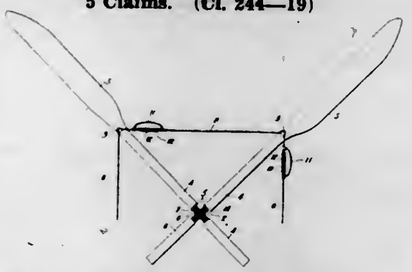


travel, said joint including an axis structure providing for pivotal movement, and a device for controlling pivotal movement arranged to react through said axis structure.

1,948,458
AIRCRAFT SUSTAINING ROTOR

Juan de la Cierva, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application December 4, 1930, Serial No. 500,063
Renewed July 30, 1932
5 Claims. (Cl. 244—19)



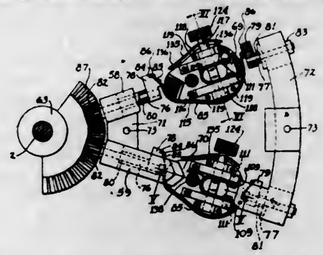
1. In an aircraft sustaining rotor, a blade mounted for rotation about a substantially vertical axis, and having means permitting blade displacement for substantial equilibration between various forces during rotation, and control means elastically resistive to blade displacement, said control means including an elastic device having a rate of increase of resistance after initial distortion at least as low as the rate of increase in the initial zone, said control means being positioned to act adjacent the axis end of the blade to reduce parasite drag.

1,948,459
CORING MACHINE

Mark Ewald, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon

Application November 21, 1927, Serial No. 234,676
Renewed April 18, 1932
41 Claims. (Cl. 146—39)

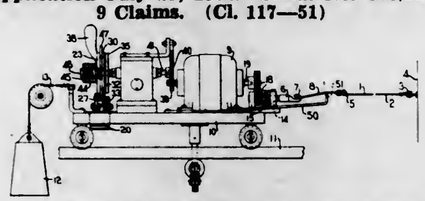
4. In combination, means for sustaining an article in a predetermined position, epidermis severing means conforming in contour with and adapted to follow the surface of said sustaining means, coring means operating in a direction normal to the movement of said epidermis severing means, and means for simultaneously but independently actuating said severing and said coring means to remove the epidermis and core from an article.



1,948,460
APPARATUS FOR TWISTING CORD

Walter J. Hamburger, Brookline, and Warren L. Thayer, Hingham, Mass., assignors to H. Schindler & Co. Inc., Canton, Mass., a corporation of Massachusetts

Application July 29, 1932. Serial No. 626,139
9 Claims. (Cl. 117—51)



1. A device for twisting cord comprising a rotary cord-twisting spindle, an electric motor to rotate the spindle, a switch for closing and opening the motor circuit, said switch having a switch-closing push button and a switch-opening push button, and means actuated by the motor to operate the switch-opening push button after the spindle has made a predetermined number of rotations thereby to open the switch.

1,948,461
PRODUCTION OF OPAQUE GLASSES AND ENAMELS

Ignaz Kreidl, Vienna, Austria

No Drawing. Application July 10, 1930, Serial No. 467,138, and in Austria August 8, 1929
9 Claims. (Cl. 106—36.2)

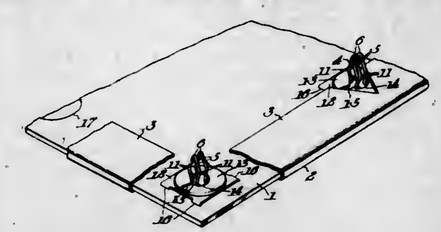
1. An improved process of producing white clouded enamels for ironware and the like, which consists in adding to the enamel frit while grinding the same in the presence of water, in lieu of the known white insoluble oxides heretofore used as the clouding media, substances which per se, in unchanged condition are incapable of serving as clouding agents, but which, upon the burning of the enamel, evolve gases which remain in the enamel at the firing thereof, together with a clay which is capable of adsorbing strongly said gas-evolving substances, and controlling the size, number and sub-division of the gas bubbles evolved in the enamel on firing by altering, prior to firing, the amount of the clay used.

1,948,462
PANEL FASTENER

Albert L. Le Page, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application March 21, 1933. Serial No. 661,983
7 Claims. (Cl. 24—213)

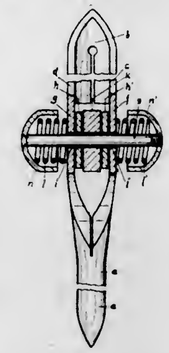
7. A stud member for separable fasteners, having a resilient shank comprising two similar members each of which has a pair of legs joined at their leading ends, each of said legs terminating in a lateral extension projecting from opposite sides to provide a base, two of said extensions being joined by a loop and the other two extensions being free and spaced apart and capable of relative movement.



1,948,463
CURLING AND MARCEL IRON

Ernst Matthes, Leipzig, Germany

Application May 11, 1931, Serial No. 536,533, and in Germany May 23, 1930
4 Claims. (Cl. 132—37)



1. A curling and marcel iron, comprising a shank, two resilient members forming said shank and connected at one end, a handle forming part of said shank, resilient connecting members for connecting the free ends of said resilient members and said handle with a bearing, and a second shank with a second handle cooperating with the first shank and being rotatably disposed in said bearing.

1,948,464
DECORATIVE COLORS FOR APPLICATION TO TEXTILE FABRICS

William H. Adams, Kenyon, R. I., assignor to Eastern Finishing Works, Kenyon, R. I., a corporation of Rhode Island

No Drawing. Application November 18, 1931
Serial No. 575,945
2 Claims. (Cl. 134—11)

1. A decorative color composition which when applied to cloth has adherent and penetrative properties and is flexible, and which comprises a mixture of aluminum soap, lead soap and copper soap dissolved in a non-oxidizable neutral volatile solvent and having color pigment mixed therein, said mixture containing equal parts by weight of the aluminum soap and lead soap and approximately one-eighth as much copper soap as either aluminum soap or lead soap.

1,948,465

SYNTHETIC RESIN AND METHOD FOR ITS PRODUCTION

Madhav R. Bhagwat, Brooklyn, N. Y., assignor to Combustion Utilities Corporation, New York, N. Y., a corporation of Maine

No Drawing. Application April 8, 1929 Serial No. 353,675 23 Claims. (Cl. 260—4)

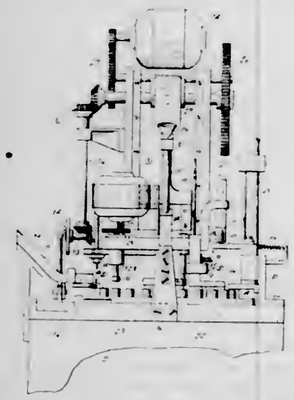
1. The process of producing curable resinous condensation products of the phenal-formaldehyde type from a coal tar distillate which comprises the steps of reacting the said distillate with a dilute aqueous solution of a caustic alkali, thereby dissolving the tar acids contained in the said distillate to form a solution of salts of the said tar acids, separating the said solution from the residual oily liquid, and thereafter treating the said solution with a substance containing an active methylene radical.

1,948,466

VALVE PARTS ASSEMBLING MACHINE

Lewis C. Broecker, Bridgeport, Conn., assignor to The Firestone Steel Products Company, Akron, Ohio, a corporation of Ohio

Application July 16, 1930. Serial No. 468,304 20 Claims. (Cl. 29—33)



1. In a valve parts assembling machine, a punch plate and a rotatably-mounted dial, means for reciprocating said punch plate toward and from said dial, means synchronized with said reciprocating means for indexing said dial when said punch plate is spaced therefrom, an annular series of spaced bushings carried on said dial, means for feeding a valve foot into said bushings at one station, means for feeding a spring into said bushings at a second station, testing means at a third station to determine whether the foot and spring have been placed in each bushing, means for feeding a valve cup and pin assembly to each bushing at a fourth station, means for pushing the pin through said spring and said foot at a fifth station, means for pressing a flat on the lower end of the pin to secure the foot and spring thereon, means to feed a barrel assembly over the top of each pin at a sixth station, means at a seventh station for pressing ears on the upper portion of each pin to hold the barrel assembly thereon, and means for discharging the completed valve assemblies.

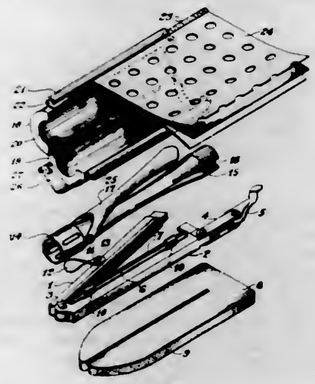
8. In a valve parts assembling machine, a punch plate, a work holder comprising a bushing, means for reciprocating said punch plate toward and from said bushing, a foot feeding mechanism and means synchronized with said punch plate reciprocating means for moving said bushing adjacent the foot feeding mechanism, said mechanism including a magazine for said feet, a funnel plate having a hole in alignment with the bushing, a pivoted carrier plate having a hole therethrough, a cam on said punch plate adapted to move said carrier plate so that the hole therein will swing from the magazine to alignment with the hole in the funnel plate, means for feeding the feet to said carrier plate one at a time, and means for maintaining the holes in the carrier and funnel plates in alignment during a portion of the upward stroke of said punch plate.

1,948,467

HAIR WAVING APPARATUS

George Decker, Cleveland, Ohio, assignor to The Philad Company, Cleveland, Ohio, a corporation of Ohio

Application May 12, 1931. Serial No. 536,745 12 Claims. (Cl. 132—36)



1. Hair waving apparatus comprising a protector clamp for engaging a flat strand of hair adjacent the scalp of a wearer, a rod upon which said strand may be wound from adjacent its ends to said clamp, a separate articulated shell arranged to be positioned about said wound strand, the parts of the shell being of thin heat-conducting material, and means carried by the clamp for clamping the sections of the shell together.

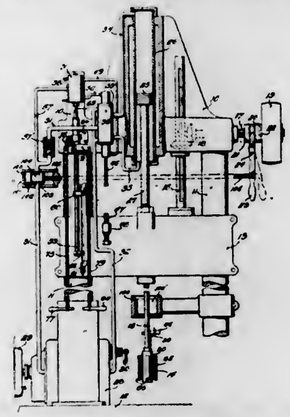
1,948,468

HONING MACHINE

John P. Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

Application November 18, 1926 Serial No. 149,052 9 Claims. (Cl. 51—34)

1. In a honing machine the combination of a reciprocating member, a honing tool movable therewith, means for rotating said tool, a variable displacement pump, means actuated by said pump for driving said member at a rate corresponding to pump displacement, control mechanism for said driving means normally responsive to movement of said member for reversing the same to thereby effect continuous reciprocation of said member and tool within a predetermined range, means for adjusting said control mechanism during reciprocation of said member to effect withdrawal of said member and tool from said range at said predetermined rate, and means automatically operable to stop the movement of said member at a predetermined point beyond said range.



1,948,469

OIL-SOLUBLE RESIN

Kenneth M. Irey, New Brunswick, N. J., assignor to Resinox Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 29, 1931 Serial No. 571,863 11 Claims. (Cl. 260—4)

1. In a process of producing an oil-soluble synthetic resin, the step which comprises reacting at the refluxing temperature of the mixture, a mixture of a bis-[4-hydroxy-aryl]-dialkyl methane and a bis-[4-hydroxy-aryl]-dialkyl methane—ketone condensation product with not in excess of 0.5 mol. of an aldehyde for each mol. of phenol reacted in producing said mixture of bis-[4-hydroxy-aryl]-dialkyl methane and bis-[4-hydroxy-aryl]-dialkyl methane—ketone condensation product.

1,948,470

BINDING POST

William H. B. Lavarack, Pine Bush, N. Y., assignor to Railroad Accessories Corporation, New York, N. Y., a corporation of New York

Application March 23, 1931. Serial No. 524,546 2 Claims. (Cl. 173—259)



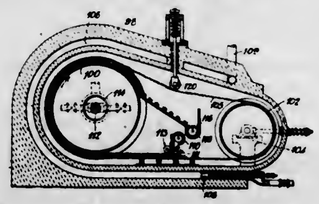
1. In a wire connector binding post of the type including a central threaded bolt, the combination of a metallic sleeve fitting about the bolt, an annulus, formed with a wire receiving aperture, surrounding the sleeve and connected thereto by a bottom wall, an apertured disc fitting around the rod and extending within the annulus with its upper face projecting beyond the annulus, and a nut threaded on the bolt and engaging said upper face of the disc for forcing it downwardly against the wire extending through said aperture and resting on said bottom wall.

1,948,471

PROCESS FOR PREPARING CARBONIZED FUEL BRIQUETTES

Henry O. Loebell, Malba, and Albert L. Klees, Long Beach, N. Y., assignors to Combustion Utilities Corporation, New York, N. Y., a corporation of Maine

Application January 29, 1930. Serial No. 424,152 21 Claims. (Cl. 202—26)



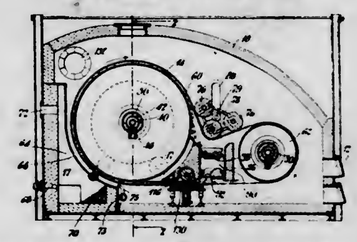
1. The process of producing a readily ignitable, carbonized fuel briquette suitable for use as a domestic fuel from solid carbonizable fuel mixtures which comprises the step of carbonizing such a finely divided fuel mixture at temperatures substantially above those of the low temperature carbonization range while the mixture is arranged in a thin moving layer and is continuously maintained under a low pressure, and concurrently forming the said layer into a plurality of seperate bodies.

1,948,472

CARBONIZATION PROCESS

Henry O. Loebell, Malba, and Albert Ludwig Klees, Long Beach, N. Y., assignors to Henry L. Doherty, New York, N. Y.

Application February 14, 1930. Serial No. 428,297 15 Claims. (Cl. 202—26)



1. The process of carbonizing solid fuel which comprises, compacting and reshaping the opposite surfaces of a uniform thin layer of finely divided solid carbonizable fuel while the same is below its carbonization temperature, thereafter carbonizing the compacted and reshaped fuel while preventing substantial disturbance of the individual fuel particles and while continuously maintaining a regulated low pressure upon the said fuel, applied thereto in a direction so as to intersect the surfaces thereof.

1,948,473

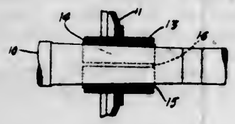
GENERATOR DRIVE ASSEMBLY

Frank O. Marshall, Chicago, Ill., assignor to The Pullman Company, Chicago, Ill., a corporation of Illinois

Application August 23, 1930. Serial No. 477,294 5 Claims. (Cl. 64—100)

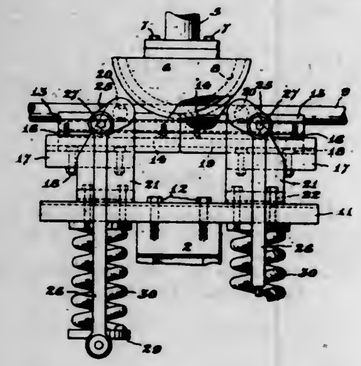
1. A generator drive assembly comprising a standard tapered car axle, a driving gear formed with its bore periphery parallel to the longitudinal axis of said axle and in spaced concentric re-

lation to the axle surface, and a tapered resilient bushing in said bore, and means on said drive



for compressing said bushing between said drive and axle.

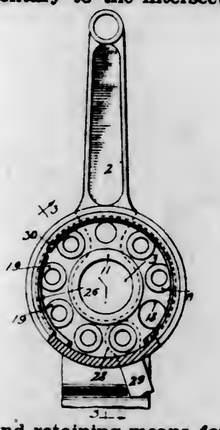
1,948,474
BENDING MACHINE
Frank H. Meyer, Warren, Ohio, assignor to The American Welding & Manufacturing Co., of Warren, Ohio, a corporation of Ohio
Application February 5, 1931. Serial No. 513,616
10 Claims. (Cl. 153—33)



1. In a tube bending machine, a pair of pivotally supported die blocks, each having a recess coaxial with the other for supporting a tube to be bent, resilient means normally resisting pivotal movement of said die blocks, a movable die having a recess corresponding in shape to the bend to be formed, and means for moving said die into engagement with said die blocks whereby said die blocks can pivot against the resistance of said resilient means and bend the tube into the recess of said die, said die blocks and said die being continuously in engagement with each other and with the tube, the engagement of said die blocks with the tube being progressively changed during the bending operation.

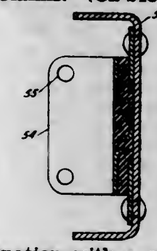
1,948,475
CRANK CONNECTION FOR RADIAL MOTORS
John Newmann, Brooklyn, N. Y.; Charles G. Hensley, receiver, New York, N. Y.
Refiled for abandoned application Serial No. 395,507, September 27, 1929. This application July 17, 1931. Serial No. 551,428
14 Claims. (Cl. 74—17)

13. In a connecting rod assembly for radial engines, a master rod hub having circularly arranged pin bores therethrough, said hub having a circular recess at one end intersecting the pin bores, a ring seated in the circular recess in the hub end, said ring underlying the hub end intermediate the pin bores, connecting rod knuckle pins in the bores, said pins having a recessed end complementary to the intersecting portions



of the ring, and retaining means for the end of the pins opposite the ring.

1,948,476
RUBBER SHOCK AND VIBRATION INSULATOR
Curt Saurer, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application August 13, 1930. Serial No. 475,686
3 Claims. (Cl. 248—14.2)

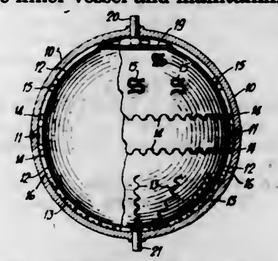


3. In combination with a supporting member and a supported member, a shock and vibration insulator connecting said members, said insulator comprising a pair of plates adapted to be respectively attached to said members, and a rubber cushion vulcanized to and between said plates, said plates being respectively formed with overlapping ledges extending interiorly through said rubber cushion whereby the portion of the rubber cushion included between said overlapping ledges will be placed under compressive stress, while the remainder of said rubber cushion will be placed under shear stress in transmitting loads from said supported member to said supporting member.

1,948,477
LINED CONTAINER
George H. Zenner, Buffalo, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application September 23, 1932
Serial No. 634,540
10 Claims. (Cl. 220—15)

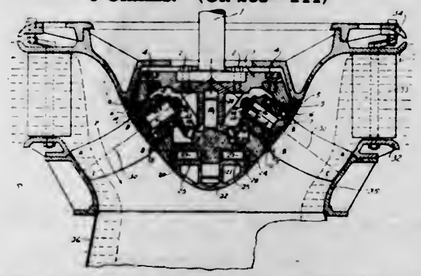
1. In a lined container, the combination with a relatively thick-walled vessel, of a relatively thin-walled vessel disposed within the first-named vessel and having a form similar to that of the first-named vessel but adapted to clear

the inner wall of the first-named vessel by a narrow interval, and means for compressively supporting the inner vessel and maintaining said in-



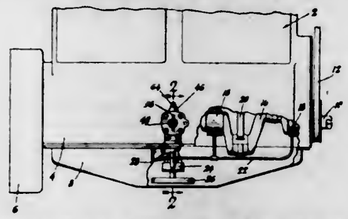
terval having a form making relatively good thermal contact with the wall of said inner vessel and relatively poor thermal contact with the wall of the first-named vessel.

1,948,478
HYDRAULIC TURBINE
George A. Biggs, Springfield, Ohio, assignor to The James Leffel & Company, Springfield, Ohio, a corporation of Ohio
Application June 21, 1932. Serial No. 618,489
6 Claims. (Cl. 253—144)



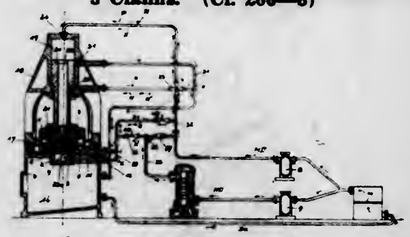
1. In a hydraulic turbine, a runner and a plurality of self-adjusting blades thereon interconnected with one another and regulated in their movement by a dash pot, the area of the trailing edge of each blade being greater at the runner than at its tip.

1,948,479
OIL PRESSURE RELIEF VALVE
Harold Caminez, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 23, 1933. Serial No. 657,933
1 Claim. (Cl. 184—6)



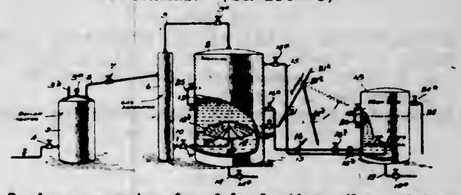
In combination with an engine having an oil receptacle and a force feed lubricating system, a lubricant purifier in said system, means to conduct the purified lubricant to the bearing parts of the engine, and a pressure relief valve operated by the pressure of the purified lubricant to maintain a substantially constant pressure in said first named means, said valve when open causing unpurified lubricant to flow to the receptacle.

1,948,480
AUTOMATIC MACHINE FOR HARDENING GEARS
Heinrich Schicht, Huckeswagen, Germany, assignor to firm: W. Ferd. Klingelnberg Söhne, Remscheid-Berghausen, Germany
Application December 17, 1930, Serial No. 503,682, and in Germany December 21, 1929
3 Claims. (Cl. 266—6)



1. An automatic hardening press comprising a frame containing a tank for liquid; a worktable formed as a die and mounted on said tank; an hydraulic cylinder mounted in said frame above said table; a first piston movable in said cylinder; a die carried by said piston; a second piston movable within said first piston; work centering means carried by said second piston; and a single source of liquid medium for actuating said pistons and quenching work held by said dies, said source being connected with said tank.

1,948,481
OIL EMULSION TREATING APPARATUS
John B. Turner, Sasakwa, Okla.
Application May 13, 1933. Serial No. 670,968
9 Claims. (Cl. 196—5)



3. An apparatus for dehydrating oil emulsions or mixtures comprising means for heating such liquid to a predetermined temperature, a gas separating tank receiving the heated mixture from said heating means, a gas outlet conduit in the top of said separating tank, a heated-oil outlet conduit in said separating tank, a treating and washing tank partially filled with aqueous liquid, said gas conduit from said separting tank discharging into the upper portion of said treating and washing tank, said oil outlet from said separating tank discharging upwardly into said treating tank, a baffle in said treating and washing tank arranged below the level of said aqueous liquid and opposite the discharge end of the said oil outlet pipe so that oil as discharged impinges directly thereagainst, a perforated plate carried by said baffle and surrounding the same whereby purified oil may pass upwardly through the aqueous liquid in said treating and washing tank and mix with the gas in the upper portion of said last named tank, and automatically operable siphon means for maintaining the aqueous liquid at a predetermined level in said treating tank.

DESIGNS

FEBRUARY 20, 1934

91,507
DESIGN FOR AN ELECTRIC HAND LANTERN
George H. Barber, New Rochelle, N. Y., assignor to Bond Electric Corporation, Jersey City, N. J., a corporation of Delaware
Application December 5, 1932. Serial No. 46,311
Term of patent 14 years



The ornamental design for an electric hand lantern, as shown and described.

91,508
DESIGN FOR AN ELEVATED STORAGE TANK
Bryan M. Blackburn, Newnan, Ga., assignor to R. D. Cole Manufacturing Co., Newnan, Ga., a corporation of Georgia
Application September 26, 1933. Serial No. 49,350
Term of patent 14 years



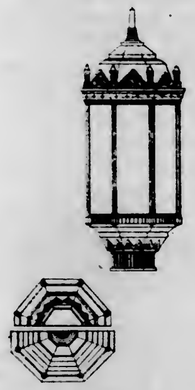
The ornamental design for an elevated storage tank as shown and described.

91,509
DESIGN FOR A DISPLAY STAND
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., Wilmington, Del., a corporation of Delaware
Application August 10, 1933. Serial No. 48,979
Term of patent 14 years



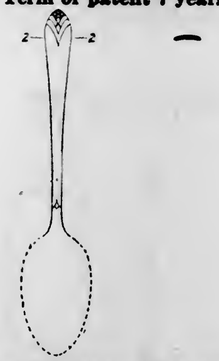
The ornamental design for a display stand as shown and described.

91,510
DESIGN FOR A LIGHT FIXTURE
Harry S. Clarke, Long Beach, Calif., assignor to Fritz Ziebarth, doing business as Southwest Street Company, Long Beach, Calif.
Application November 18, 1933. Serial No. 49,784
Term of patent 7 years



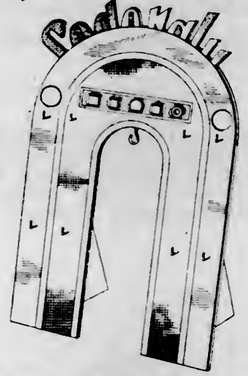
The ornamental design for a light fixture, as shown.

91,511
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Edward J. Conroy, New Haven, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application December 20, 1933. Serial No. 50,160
Term of patent 7 years



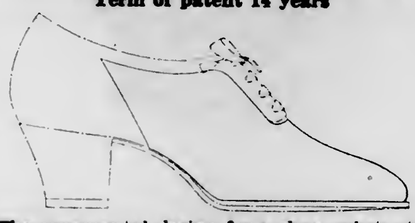
The ornamental design for a spoon or other article of flat-ware, substantially as shown and described.

91,512
DESIGN FOR A DISPLAY HOLDER
Stuart S. Crippen, Jr., Chicago, Ill.
Application July 10, 1933. Serial No. 48,683
Term of patent 7 years



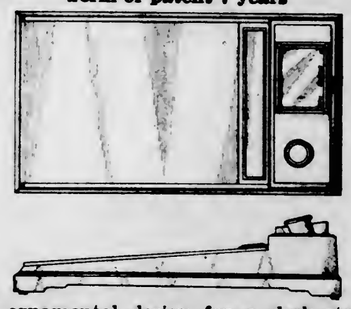
The ornamental design for a display holder, as shown and described.

91,513
DESIGN FOR A SHOE
Claude H. Daniels, Wellesley Hills, Mass.
Application June 24, 1933. Serial No. 48,518
Term of patent 14 years



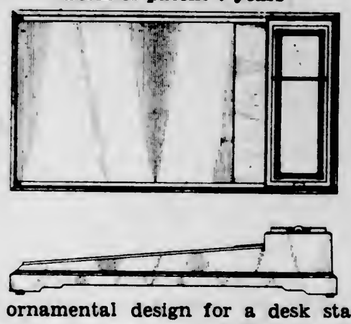
The ornamental design for a shoe, substantially as shown and described.

91,514
DESIGN FOR A DESK STAND
Cornelius Max Du Bois, Chicago, Ill., assignor to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application November 24, 1933. Serial No. 49,843
Term of patent 7 years



The ornamental design for a desk stand as shown.

91,515
DESIGN FOR A DESK STAND
Cornelius Max Du Bois, Chicago, Ill., assignor to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application November 24, 1933. Serial No. 49,844
Term of patent 7 years



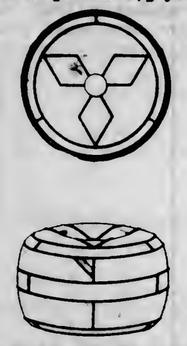
The ornamental design for a desk stand as shown.

91,516
DESIGN FOR A SHOE
Ferdinand W. Ellington, Jamaica, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application December 29, 1933. Serial No. 50,259
Term of patent 3½ years



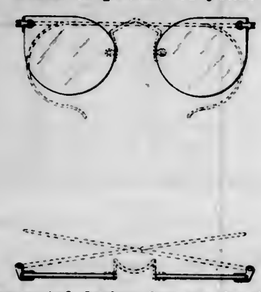
The ornamental design for a shoe, as shown.

91,517
DESIGN FOR A HASSOCK
John R. Ellis, Richmond, Va.
Application November 22, 1933. Serial No. 49,823
Term of patent 3½ years



The ornamental design for a hassock as shown.

91,518
DESIGN FOR A PAIR OF SPECTACLES
Ernest E. Emons, Kennett Square, Pa., assignor to The Ful-Vue Sales Company, Washington, D. C., a firm
Application May 5, 1932. Serial No. 43,723
Term of patent 14 years



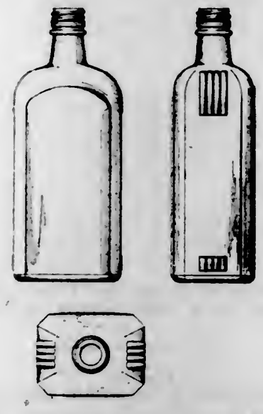
The ornamental design for a pair of spectacles, as shown and described.

91,519
DESIGN FOR A DISPENSING COOLER FOR BOTTLED BEVERAGES OR THE LIKE
Chester A. Frick, Muncie, Ind., assignor to Glascock Brothers Mfg. Co., Muncie, Ind., a corporation of Indiana.
Application May 29, 1933. Serial No. 48,239
Term of patent 7 years



The ornamental design for a dispensing cooler for bottled beverages or the like, as shown.

91,520
DESIGN FOR A BOTTLE
Edwin W. Fuerst, Toledo, Ohio, assignor to The Fleischmann Distilling Corporation, New York, N. Y., a corporation of New York
Application December 28, 1933. Serial No. 50,241
Term of patent 14 years



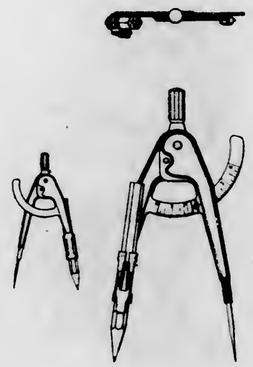
The ornamental design for a bottle substantially as shown.

91,521
DESIGN FOR A COMBINED VESSEL AND COVER FOR ELECTRIC COOKER
Marshall W. Hanks, Madison, Wis.
Application November 9, 1933. Serial No. 49,683
Term of patent 3½ years



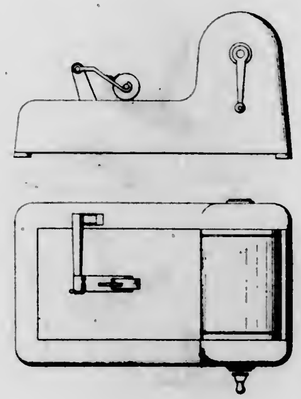
The ornamental design for a combined vessel and cover for electric cooker, as shown.

91,522
DESIGN FOR A COMPASS
Julius C. Hochman, New York, N. Y., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware
Application February 27, 1933. Serial No. 47,330
Term of patent 14 years



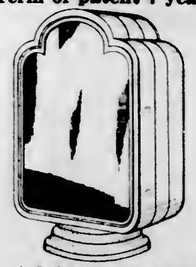
The ornamental design for a compass, as shown and described.

91,523
DESIGN FOR A CASING FOR A DUPLICATING MACHINE
Edwin Jacobsen, Los Angeles, Calif.
Application May 29, 1933. Serial No. 48,242
Term of patent 14 years



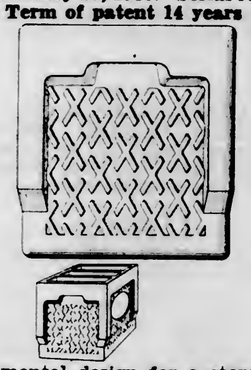
The ornamental design for a casing for a duplicating machine, as shown.

92,524
DESIGN FOR A CABINET OR ENCLOSURE FOR FANS
Thomas Borth Jones, Webster Groves, Mo., assignor to Century Electric Co., St. Louis, Mo., a corporation of Missouri
Application July 15, 1933. Serial No. 48,781
Term of patent 7 years



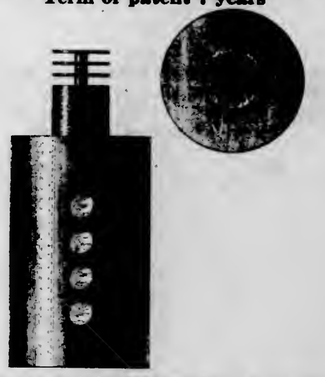
The ornamental design for a cabinet or enclosure for fans, substantially as shown and described.

91,525
DESIGN FOR A STORAGE BATTERY CASE
Frank T. Kalas, Philadelphia, Pa.
Application May 29, 1933. Serial No. 48,243
Term of patent 14 years



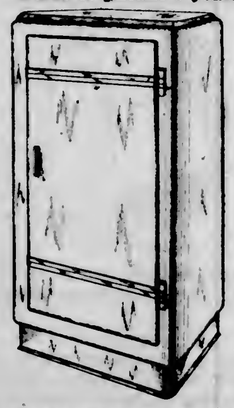
The ornamental design for a storage battery case, as shown and described.

91,526
DESIGN FOR A COMBINATION SHAKER AND DECANTER
Edward Kanter, Cleveland Heights, Ohio
Application August 14, 1933. Serial No. 49,019
Term of patent 7 years



The ornamental design for a combination shaker and decanter substantially as shown and described.

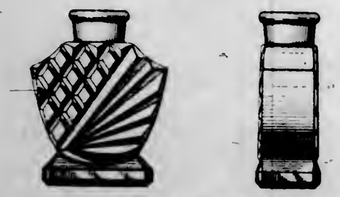
91,527
DESIGN FOR A REFRIGERATOR CABINET OR SIMILAR ARTICLE
Ralph E. Kruck, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 5, 1933. Serial No. 49,967
Term of patent 7 years



The ornamental design for a refrigerator cabinet or similar article substantially as shown.

91,528
DESIGN FOR A BOTTLE
Walter R. Leach, Baltimore, Md., assignor to Carr-Lowrey Glass Co., Baltimore, Md.
Application December 11, 1933. Serial No. 50,031
Term of patent 14 years





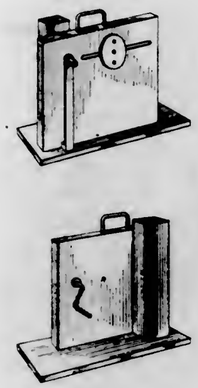
The ornamental design for a bottle, as shown.

91,529
DESIGN FOR AN OPHTHALMIC MOUNTING
Michael R. McDanal, Denver, Colo.
Application June 27, 1931. Serial No. 40,346
Term of patent 14 years



The ornamental design for an ophthalmic mounting, as shown and described.

91,530
DESIGN FOR A MOTION PICTURE PROJECTOR
David Pelton Moore, Avon Park, Fla., assignor to W-R-M, Inc., a corporation of Delaware
Application November 21, 1933. Serial No. 49,811
Term of patent 14 years



The ornamental design for a motion picture projector, as shown.

91,531
DESIGN FOR A SHOE
Charles Morali, New York, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application December 19, 1933. Serial No. 50,128
Term of patent 3½ years



The ornamental design for a shoe as shown.

91,532
DESIGN FOR A SHOE
Charles Morali, Forest Hill, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application December 29, 1933. Serial No. 50,257
Term of patent 3½ years



The ornamental design for a shoe, as shown.

91,533
DESIGN FOR A SHOE
Charles Morali, Forest Hill, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application December 29, 1933. Serial No. 50,258
Term of patent 3½ years



The ornamental design for a shoe, as shown.

91,534
DESIGN FOR A SHOE
Charles Morali, Forest Hill, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application January 2, 1934. Serial No. 50,278
Term of patent 3½ years



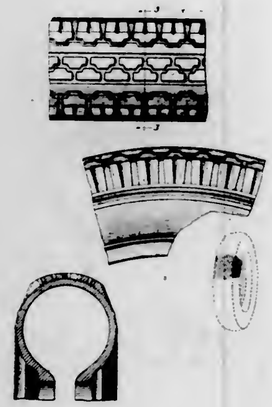
The ornamental design for a shoe, as shown and described.

91,535
DESIGN FOR A SHOE
Charles Morali, Forest Hill, N. Y., assignor to Delman, Inc., New York, N. Y., a corporation of New York
Application January 2, 1934. Serial No. 50,279
Term of patent 3½ years



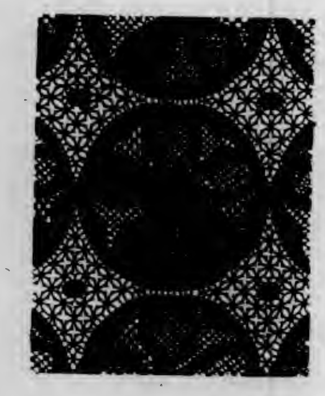
The ornamental design for a shoe, as shown and described

91,536
DESIGN FOR A TIRE
Chase F. Ofensend, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 11, 1932. Serial No. 45,309
Term of patent 14 years



The ornamental design for a tire as shown.

91,537
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application September 1, 1933. Serial No. 49,182
Term of patent 7 years



The ornamental design for lace, substantially as shown.

91,538
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application September 1, 1933. Serial No. 49,183
Term of patent 7 years



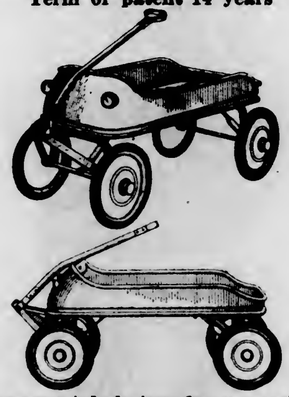
The ornamental design for lace, substantially as shown.

91,539
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application January 17, 1934. Serial No. 50,434
Term of patent 7 years



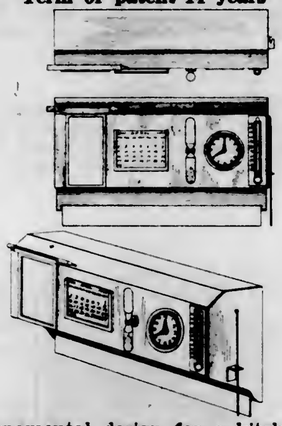
The ornamental design for lace, substantially as shown.

91,540
DESIGN FOR A COASTER WAGON
Antonio Pasin, Chicago, Ill., assignor to Radio Steel & Mfg. Co., Chicago, Ill., a corporation of Illinois
Application December 8, 1933. Serial No. 49,993
Term of patent 14 years



The ornamental design for a coaster wagon substantially as shown and described.

91,541
DESIGN FOR A KITCHEN UTILITY CABINET
Henry W. Pedersen, Berwyn, Ill.
Application May 3, 1933. Serial No. 47,971
Term of patent 14 years



The ornamental design for a kitchen utility cabinet as shown.

91,542
DESIGN FOR AN EGG CUP HAVING A TOP
Edward A. Reiser, Columbus, Ohio
Application November 25, 1933. Serial No. 49,874
Term of patent 7 years



The ornamental design for an egg cup having a top, as shown.

91,543
DESIGN FOR AN END PIECE FOR SPECTACLES OR SIMILAR ARTICLES
Edwin Reynolds, Vineland, N. J.
Application November 28, 1933. Serial No. 49,883
Term of patent 14 years



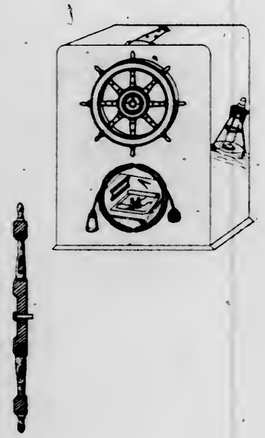
The ornamental design for an end piece for spectacles or similar articles, substantially as shown.

91,544
DESIGN FOR A CLOCK CASE
Max Schlenker, La Salle, Ill., assignor to Western Clock Company, Peru, Ill., a corporation of Illinois
Application November 17, 1933. Serial No. 49,778
Term of patent 7 years



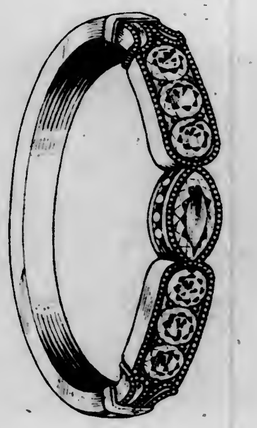
The ornamental design for a clock case, as shown.

91,545
DESIGN FOR A RADIOCABINET OR THE LIKE
Miller Stansbury, Washington, D. C.
Application November 9, 1933. Serial No. 49,684
Term of patent 14 years



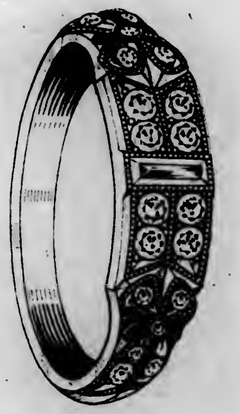
The ornamental design for a radiocabinet or the like, as shown and described.

91,546
DESIGN FOR A FINGER RING
Ernest Steffen, San Francisco, Calif.
Application December 6, 1933. Serial No. 49,975
Term of patent 3½ years



The ornamental design for a finger ring, substantially as shown.

91,547
DESIGN FOR A FINGER RING
Ernest Steffen, San Francisco, Calif.
Application December 6, 1933. Serial No. 49,976
Term of patent 3½ years



The ornamental design for a finger ring, substantially as shown.

91,548
DESIGN FOR A PLAQUE
Charles H. Streimer, New York, N. Y.
Application December 12, 1933. Serial No. 50,050
Term of patent 3½ years



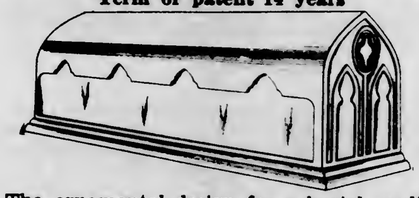
The ornamental design for a plaque substantially as shown.

91,549
DESIGN FOR A HOLLY WREATH
John F. Tremper, Newport News, Va.
Application November 10, 1933. Serial No. 49,694
Term of patent 3½ years



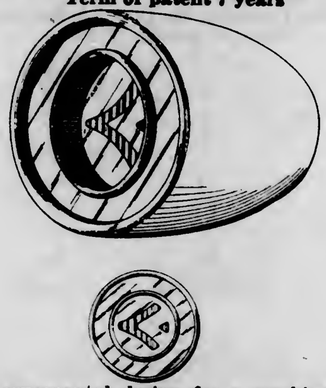
The ornamental design for a holly wreath, as shown.

91,550
DESIGN FOR A BURIAL VAULT
Robert H. Zerfing, Oneida, N. Y., assignor to Maxwell Steel Vault Company, Oneida, N. Y., a corporation of New York
Application December 8, 1933. Serial No. 49,992
Term of patent 14 years



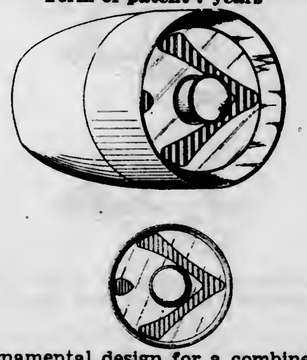
The ornamental design for a burial vault, as shown.

91,551
DESIGN FOR A COMBINED DIRECTIONAL AND TAIL OR DRIVING LAMP FOR MOTOR VEHICLES
Edward T. Condon, New York, N. Y.
Application June 7, 1933. Serial No. 48,301
Term of patent 7 years



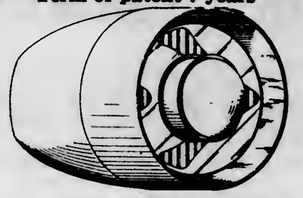
The ornamental design for a combined directional and tail or driving lamp for motor vehicles, as shown and described.

91,552
DESIGN FOR A COMBINED DIRECTIONAL AND TAIL OR DRIVING LAMP FOR MOTOR VEHICLES
Edward T. Condon, New York, N. Y.
Application June 7, 1933. Serial No. 48,302
Term of patent 7 years



The ornamental design for a combined directional and tail or driving lamp for motor vehicles, as shown and described.

91,553
DESIGN FOR A COMBINED DIRECTIONAL AND TAIL OR DRIVING LAMP FOR MOTOR VEHICLES
Edward T. Condon, New York, N. Y.
Application June 7, 1933. Serial No. 48,303
Term of patent 7 years



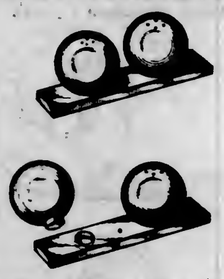
The ornamental design for a combined directional and tail or driving lamp for motor vehicles, as shown and described.

91,554
DESIGN FOR A LENS STRAP
Charles O. Cozzens, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 16, 1933. Serial No. 50,095
Term of patent 14 years



The ornamental design for a lens strap substantially as shown and described.

91,555
DESIGN FOR A SALT AND PEPPER SHAKER ASSEMBLY
Helen Hughes Dulany, Chicago, Ill.
Application January 15, 1934. Serial No. 50,402
Term of patent 3½ years



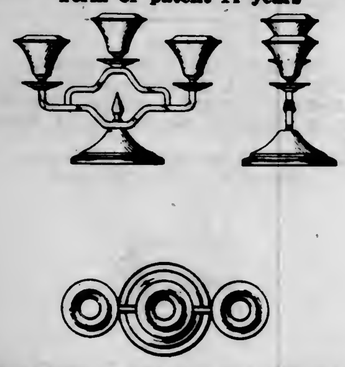
The ornamental design for a salt and pepper shaker assembly as shown and described.

91,556
DESIGN FOR A MOTOR VEHICLE
William B. Fageol, Kent, Ohio, assignor to Twin Coach Company, Kent, Ohio, a corporation of Delaware
Application December 20, 1933. Serial No. 50,151
Term of patent 14 years



The ornamental design for a motor vehicle substantially as shown.

91,557
DESIGN FOR A CANDELABRA
Simon W. Farber, Brooklyn, N. Y., assignor to S. W. Farber, Inc., Brooklyn, N. Y., a corporation of New York
Application December 20, 1933. Serial No. 50,146
Term of patent 14 years



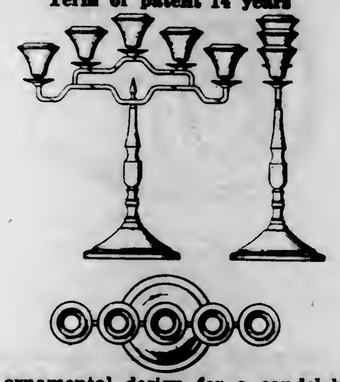
The ornamental design for a candelabra, as shown.

91,558
DESIGN FOR A CANDELABRA
Simon W. Farber, Brooklyn, N. Y., assignor to S. W. Farber, Inc., Brooklyn, N. Y., a corporation of New York
Application December 20, 1933. Serial No. 50,143
Term of patent 14 years



The ornamental design for a candelabra, as shown.

91,559
DESIGN FOR A CANDELABRA
Simon W. Farber, Brooklyn, N. Y., assignor to S. W. Farber, Inc., Brooklyn, N. Y., a corporation of New York
Application December 20, 1933. Serial No. 50,144
Term of patent 14 years



The ornamental design for a candelabra, as shown.

91,560
DESIGN FOR A CANDELABRA
Simon W. Farber, Brooklyn, N. Y., assignor to S. W. Farber, Inc., Brooklyn, N. Y., a corporation of New York
Application December 20, 1933. Serial No. 50,145
Term of patent 14 years



The ornamental design for a candelabra, as shown.

91,561
DESIGN FOR A BOTTLE
Edwin W. Fuerst, Toledo, Ohio, assignor to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia
Application December 14, 1933. Serial No. 50,068
Term of patent 14 years



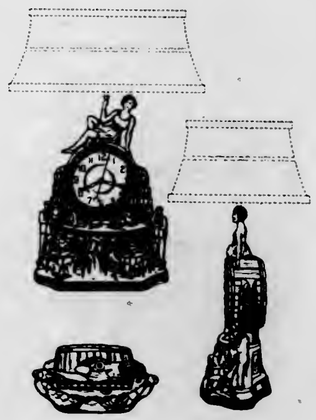
The ornamental design for a bottle substantially as shown and described.

91,562
DESIGN FOR A SUCTION CLEANER DUST BAG
Elizabeth Hoffiin, New York, N. Y., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application November 24, 1933. Serial No. 49,838
Term of patent 14 years



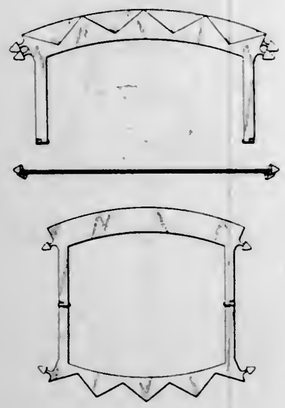
The ornamental design for a suction cleaner dust bag, as shown and described.

91,563
DESIGN FOR A COMBINED CLOCK CASE AND LAMP OR SIMILAR ARTICLE
Abraham Levy, Brooklyn, N. Y., assignor to United Metal Goods Manufacturing Co. Inc., Brooklyn, N. Y., a corporation of New York
Application December 22, 1933. Serial No. 50,194
Term of patent 3½ years



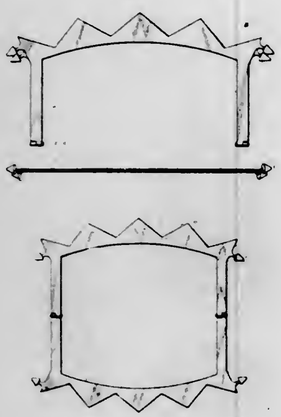
The ornamental design for a combined clock case and lamp or similar article, as shown and described.

91,564
DESIGN FOR A HAND BAG FRAME
David Lewis, New York, N. Y.
Application December 23, 1933. Serial No. 50,208
Term of patent 3½ years



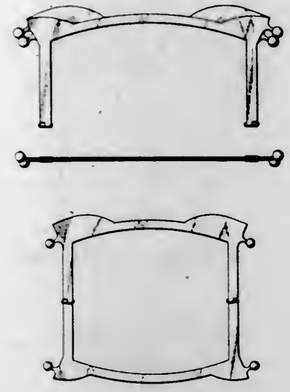
The ornamental design for a hand bag frame, substantially as shown.

91,565
DESIGN FOR A HAND BAG FRAME
David Lewis, New York, N. Y.
Application December 23, 1933. Serial No. 50,209
Term of patent 3½ years



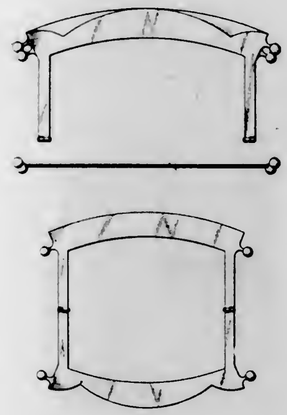
The ornamental design for a hand bag frame, substantially as shown.

91,566
DESIGN FOR A HAND BAG FRAME
David Lewis, New York, N. Y.
Application December 23, 1933. Serial No. 50,210
Term of patent 3½ years



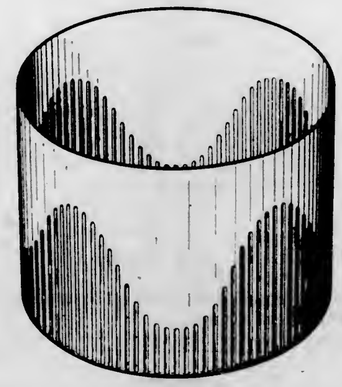
The ornamental design for a hand bag frame, substantially as shown.

91,567
DESIGN FOR A HAND BAG FRAME
David Lewis, New York, N. Y.
Application December 23, 1933. Serial No. 50,211
Term of patent 3½ years



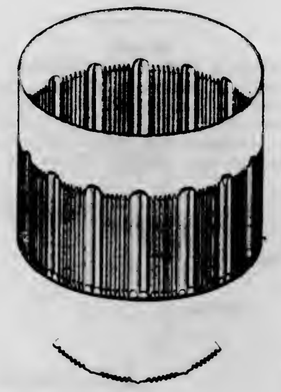
The ornamental design for a hand bag frame, substantially as shown.

91,568
DESIGN FOR A TUB
John J. McCabe, Cleveland, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 12, 1932. Serial No. 45,945
Term of patent 14 years



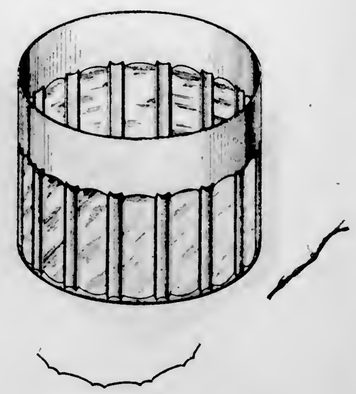
The ornamental design for a tub as shown.

91,569
DESIGN FOR A TUB
John J. McCabe, Cleveland, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 12, 1932. Serial No. 46,429
Term of patent 14 years



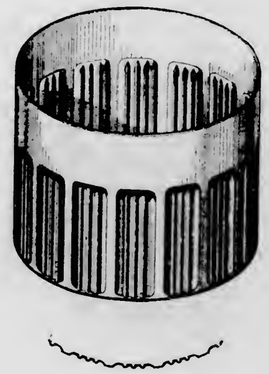
The ornamental design for a tub as shown.

91,570
DESIGN FOR A TUB
John J. McCabe, Cleveland, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 12, 1932. Serial No. 46,430
Term of patent 14 years



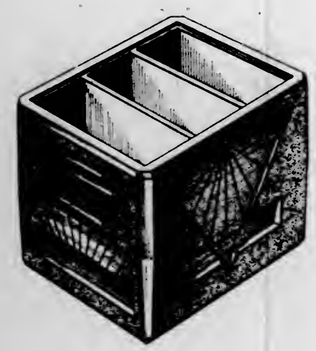
The ornamental design for a tub as shown.

91,571
DESIGN FOR A TUB
John J. McCabe, Cleveland, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 12, 1932. Serial No. 46,431
Term of patent 14 years



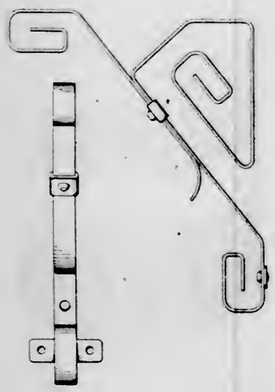
The ornamental design for a tub as shown.

91,572
DESIGN FOR A BATTERY CONTAINER
John A. Smith, Arlington, Mass., assignor to Hood Rubber Company, Inc., Watertown, Mass., a corporation of Delaware
Application December 15, 1933. Serial No. 50,085
Term of patent 14 years



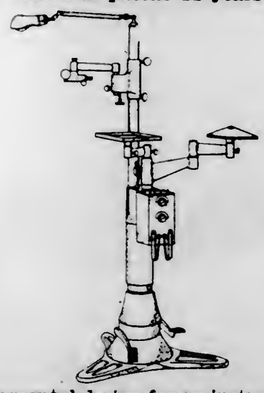
The ornamental design for a battery container as shown.

91,573
DESIGN FOR A LAMP BRACKET
Herbert R. Sulzer, Lower Gwynedd, Pa.
Application December 1, 1933. Serial No. 49,917
Term of patent 7 years



The ornamental design for a lamp bracket as shown.

91,574
DESIGN FOR AN INSTRUMENT STAND
Otto E. Trautmann, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application December 7, 1933. Serial No. 49,981
Term of patent 14 years



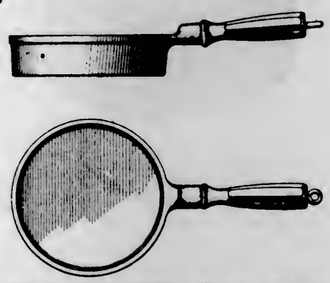
The ornamental design for an instrument stand substantially as shown.

91,575
DESIGN FOR AN ERASER TIP FOR PENCILS
Horace B. Van Dorn, Maplewood, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey
Application December 14, 1933. Serial No. 50,067
Term of patent 14 years



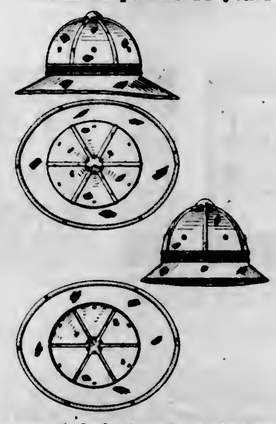
The ornamental design for an eraser tip for pencils, as shown.

91,576
DESIGN FOR A PAN OR SIMILAR ARTICLE
Philip E. Willman, Chicago, Ill.
Original application March 24, 1933, Serial No. 47,566, now Design Patent 90,609, dated August 29, 1933. Divided and this application June 9, 1933. Serial No. 48,359. Term of patent 7 years



The ornamental design for a pan or similar article, substantially as shown.

91,577
DESIGN FOR A HAT
Edward Wittcoff, University City, Mo., assignor to Caradine Hat Company, St. Louis, Mo., a corporation of Missouri
Application September 28, 1933. Serial No. 49,364
Term of patent 14 years



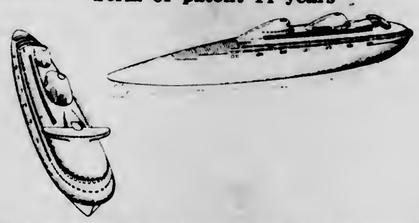
The ornamental design for a hat substantially as shown.

91,578
DESIGN FOR A BOX OR SIMILAR CONTAINER
Charles K. Ellsworth, Detroit, Mich.
Application June 21, 1932. Serial No. 44,153
Term of patent 3½ years



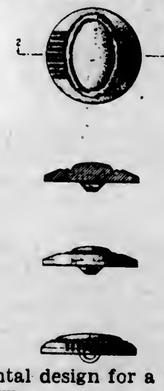
The ornamental design for a box or similar container substantially as shown.

91,579
DESIGN FOR A BOAT
Norman Bel Geddes, New York, N. Y.
Application November 1, 1933. Serial No. 49,618
Term of patent 14 years



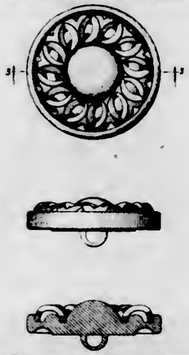
The ornamental design for a boat substantially as shown and described.

91,580
DESIGN FOR A BUTTON OR SIMILAR ARTICLE
Samuel Green, Bronx, N. Y.
Application December 21, 1933. Serial No. 50,171
Term of patent 3½ years



The ornamental design for a button or similar article, as shown.

91,581
DESIGN FOR A BUTTON
William F. Haas, Rockaway, Long Island, N. Y.
Application December 21, 1933. Serial No. 50,169
Term of patent 3½ years



The ornamental design for a button as shown.

91,582
DESIGN FOR A BUTTON
William F. Haas, Rockaway, Long Island, N. Y.
Application December 21, 1933. Serial No. 50,170
Term of patent 3½ years



The ornamental design for a button as shown.

91,583
DESIGN FOR AN EMBROIDERED TEXTILE FABRIC OR SIMILAR ARTICLE
Max Hofmann, New York, N. Y.
Application October 30, 1933. Serial No. 49,591
Term of patent 3½ years



The ornamental design for an embroidered textile fabric or similar article substantially as shown.

91,584
DESIGN FOR A LAMP
James P. Kiernan, Derby, Clyde G. Cottle, West Haven, and William J. Sheehan, New Haven, Conn., assignors, by mesne assignments, to Louis J. Kasden, Ansonia, Conn.
Application July 21, 1933. Serial No. 48,788
Term of patent 3½ years



The ornamental design for a lamp, substantially as shown.

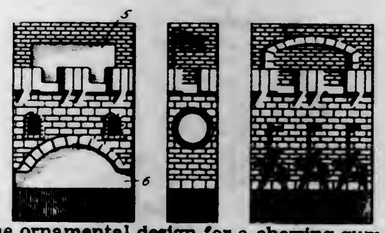
91,585
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Gilbert Morton King, Pawtucket, R. I.
Application August 23, 1933. Serial No. 49,093
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

91,586
DESIGN FOR A CHEWING GUM CARTON
John McCollum, New York, N. Y.
Application December 18, 1933. Serial No. 50,106
Term of patent 14 years





The ornamental design for a chewing gum carton as shown and described.

91,587
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application December 30, 1933. Serial No. 50,269
Term of patent 3½ years



The ornamental design for a shoe, as shown.

91,588
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application December 30, 1933. Serial No. 50,270
Term of patent 3½ years





The ornamental design for a shoe, as shown.

91,589
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application December 30, 1933. Serial No. 50,271
Term of patent 3½ years





The ornamental design for a shoe, as shown.

91,590
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application December 30, 1933. Serial No. 50,272
Term of patent 3½ years





The ornamental design for a shoe, as shown.

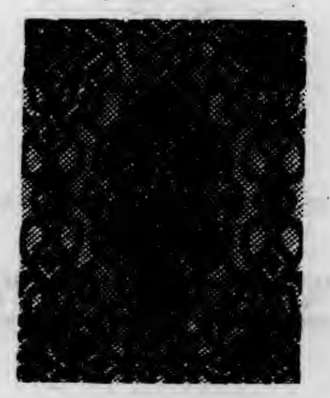
91,591
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application December 30, 1933. Serial No. 50,273
Term of patent 3½ years





The ornamental design for a shoe, as shown.

91,592
DESIGN FOR LACE
Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn.
Application January 22, 1934. Serial No. 50,462
Term. of patent 7 years



The ornamental design for lace, substantially as shown.

91,593
DESIGN FOR A SKI
Roger W. Patten, Framingham, Mass.
Application August 18, 1933. Serial No. 49,053
Term of patent 7 years



The ornamental design for a ski, as shown and described.

91,594
DESIGN FOR A BUTTON
Sidney Rosenthal, Cedarhurst, N. Y.
Application December 21, 1933. Serial No. 50,168
Term of patent 3½ years



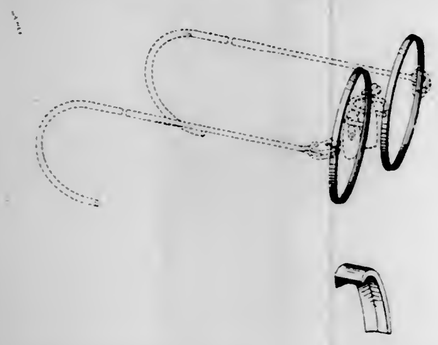
The ornamental design for a button, as shown.

91,595
DESIGN FOR LACE FABRIC OR THE LIKE
Clemens Schiller, Grantwood, N. J.
Application January 19, 1934. Serial No. 50,418
Term of patent 3½ years



The ornamental design for a lace fabric or the like as shown.

91,596
DESIGN FOR AN OPHTHALMIC MOUNTING
Wayne S. Searles, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a corporation of Rhode Island
Application October 10, 1932. Serial No. 45,263
Term of patent 14 years



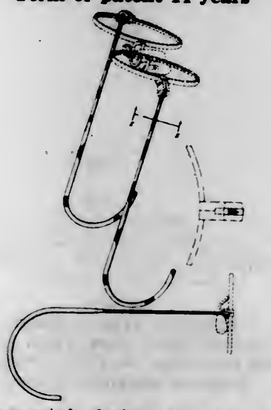
The ornamental design for an ophthalmic mounting substantially as shown.

91,597
DESIGN FOR A CENTER BAR FOR OPHTHALMIC MOUNTINGS
Wayne S. Searles, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a corporation of Rhode Island
Application October 10, 1932. Serial No. 45,264
Term of patent 14 years



The ornamental design for a center bar for ophthalmic mountings, substantially as shown.

91,598
DESIGN FOR AN OPHTHALMIC MOUNTING
Wayne S. Searles, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a corporation of Rhode Island
Application October 10, 1932. Serial No. 45,265
Term of patent 14 years



The ornamental design for an ophthalmic mounting substantially as shown.

91,599
DESIGN FOR LACE
Alec Springthorpe, Pawtucket, R. I., assignor to New England Lace Mills, Inc., New York, N. Y.
Application November 24, 1933. Serial No. 49,848
Term of patent 3½ years



The ornamental design for lace substantially as shown.

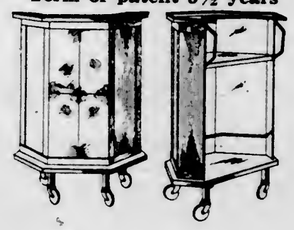
CARNEGIE LIBRARY OF ATLANTA

91,600
DESIGN FOR LACE
Frederick Truman, Pawtucket, R. I., assignor to New England Lace Mills, Inc., New York, N. Y.
Application November 24, 1933. Serial No. 49,849
Term of patent 3½ years



The ornamental design for lace substantially as shown.

91,601
DESIGN FOR A MOVABLE BAR
Jacob Zatzkin, Brooklyn, N. Y.
Application December 23, 1933. Serial No. 50,205
Term of patent 3½ years





The ornamental design for a movable bar as shown.

Patents Nos. 1,948,482 to 1,949,398

THE

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February 27, 1934

Trade-Marks	213	No. 310,394	to No. 310,607.	
T. M. Renewals	56			
Labels	49	No. 43,281	to No. 43,329,	inclusive.
Prints	7	No. 14,604	to No. 14,610,	inclusive.
Reissues	6	No. 19,093	to No. 19,098,	inclusive.
Designs	40	No. 91,602	to No. 91,641,	inclusive.
Patents	917	No. 1,948,482	to No. 1,949,398,	inclusive.
Total	1,290			

Adjudicated Patents

(D. C. Md.) Peterson patent, No. 1,206,464, for refrigerator showcase, *Held* unanticipated but not infringed. *Ottenheimer Bros.* v. *Lebuwitz*, 5 F. Supp. 205.

(D. C. Md.) Kadel and Pilcher patent, No. 1,268,725, for railway-car, claims 2 and 11 *Held* valid but not infringed. *Wine Ry. Appliance Co.* v. *Baltimore & O. R. Co.*, 5 F. Supp. 219.

(D. C. Md.) Wine patent, No. 1,431,499, for car door lock, claim 1 *Held* invalid. *Id.*

(D. C. Md.) Kadel patent, No. 1,434,953, for door mechanism for railway cars, claim 2 *Held* valid and infringed. *Id.*

(C. C. A. Ill.) Budd and Ibach patent, No. 1,442,601, for machine and method for rolling tapered disks, claims 14, 19, and 20 *Held* invalid; claims 17 and 25 *Held* valid; claims 2, 6, 17, and 25 *Held* not infringed. *Ingersoll Steel & Disc Co.* v. *Budd Wheel Co.*, 67 F.(2d) 753.

(D. C. Md.) Wine patent, No. 1,455,694, for car-door-locking device, claim 11 *Held* invalid. *Wine Ry. Appliance Co.* v. *Baltimore & O. R. Co.*, 5 F. Supp. 219.

(D. C. Md.) Wine patent, No. 1,460,009, for railway car, claims 1 to 10 *Held* valid and infringed. *Id.*

(D. C. Md.) Wine patent, No. 1,486,210, for door arrangement for railway cars, claims 1 and 4 *Held* invalid. *Id.*

(D. C. Mass.) Cheney patent, No. 1,715,000, for interlocking metal flashing, claim 2 *Held* valid and infringed. *Cheney Co.* v. *City of Medford*, 5 F. Supp. 262.

(D. C. Md.) Kadel patent, No. 1,733,786, for car-door mechanism, claim 8 *Held* invalid. *Wine Ry. Appliance Co.* v. *Baltimore & O. R. Co.*, 5 F. Supp. 219.

(D. C. Md.) Kadel patent, No. 1,737,927, for railway car, claim 6 *Held* invalid. *Id.*

(D. C. Md.) Kadel patent, No. 1,738,057, for car-door locking device, claims 7, 15, 16, 22, and 27 *Held* invalid. *Id.*

(D. C. Md.) Kadel patent, No. 1,743,144, for railway car, claims 8, 9, 15, and 18 *Held* invalid. *Id.*

(D. C. Pa.) McCarthy and Novick patent, No. 1,748,489, for photographing apparatus, claims 5, 18, 19, 21, and 27 *Held* invalid. *McCarthy* v. *National Perforator Co.*, 5 F. Supp. 210.

(C. C. A. Cal.) Stoody et al. patent, No. 1,757,601, for welding rod, evidence *Held* to sustain judgment holding the patent invalid for want of invention. *Stoody Co.* v. *Mills Alloys*, 67 F.(2d) 807.

(D. C. N. Y.) Holmes patent, No. 1,769,836, for water-feed control, claims 1, 3, 11, 12 *Held* valid and infringed. *Kny-Sheerer Corporation* v. *American Sterilizer Co.*, 5 F. Supp 273.

(D. C. Mass.) Friedrich patent, No. 1,860,240, for flashing, claims 2, 3, 5, and 6 *Held* valid and infringed. *Cheney Co.* v. *City of Medford*, 5 F. Supp. 262.

(D. C. Md.) Wine reissue patent, No. 15,792, for car-door lock, claims 6, 7, and 10 *Held* valid and infringed. *Wine Ry. Appliance Co.* v. *Baltimore & O. R. Co.*, 5 F. Supp. 219.

(D. C. Md.) Ottenheimer reissue patent, No. 16,941, for refrigerating case, claims 1 and 11 *Held* invalid, claims 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, and 14 *Held* not infringed. *Ottenheimer Bros.* v. *Lebuwitz*, 5 F. Supp. 205.

(C. C. A. N. Y.) Schecker reissue patent, No. 17,605, for electrical condenser and method for making the same, *Held* invalid. *Aerovox Corporation* v. *Polymet Mfg. Corporation*, 67 F.(2d) 860.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,812,957, Charles Huenlich, Electrically operating sound recorder and reproducer, decided February 7, 1934, claims 7, 9, 10, 11, 12, 13, and 14.

Pat. 1,867,230, T. J. Osinga, Fascia plate installation, decided February 7, 1934, claims 1, 2, 3, and 20.

Pat. 1,890,118, C. B. Johnson, Boot or shoe sole, decided February 6, 1934, claims 1 and 3.

Pat. 1,898,458, Paul Nawiasky, Wilhelm Bauer and Emil Krauch, Vat dyestuffs of the acridone and thioxanthone series and the process of making them, decided February 6, 1934, claim 10.

Condition of Applications Under Examination at Close of Business February 10, 1934

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,609; Trade-Mark Division, 1,097. Oldest new case, September 14, 1933; oldest amended, September 15, 1933. The dates given are 1933 except where † indicates 1934.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Oct. 20	Oct. 23	420
6706	2. HERMANN, D., Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Oct. 16	Oct. 17	701
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Nov. 13	Nov. 10	640
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Store Service; Pneumatic Despatch.	Nov. 6	Oct. 31	358
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Nov. 10	Nov. 11	449
4808C	6. LEWERS, A. M., Carbon Chemistry	Oct. 23	Oct. 18	893
5726	7. JARBOE, C. G., Optics; Photography	Nov. 7	Nov. 6	785
2887	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Dec. 15	Dec. 16	278
4634	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Dec. 6	Dec. 9	405
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops; Vehicle Fenders	Oct. 2	Nov. 1	498
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Oct. 11	Oct. 12	578
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	Oct. 25	Oct. 25	518
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Dec. 8	Dec. 7	445
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Dec. 7	Dec. 12	342
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 29	Oct. 29	922
5612	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 25	Nov. 25	457
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Oct. 13	Oct. 14	803
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 12	Dec. 11	288
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Oct. 12	Oct. 12	974
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking; Automatic Weighers.	Oct. 20	Oct. 24	210
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Oct. 11	Oct. 12	833
5724	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Coating Implements.	Oct. 12	Oct. 12	897
7802	23. BUTTNER, W. J. (Act.), Coin Handling; Recorders; Registers	Oct. 12	Oct. 10	517
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 14	Nov. 20	490
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Oct. 10	Oct. 10	788
5903	26. ADAMS, W. M., Electricity, Generation; Motive Power	Dec. 16	Dec. 18	236
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus	Nov. 10	Nov. 10	426
4628	28. BENSON, A. R., Internal-Combustion Engines	Oct. 17	Oct. 16	505
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Dec. 4	Dec. 9	227
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 10	Nov. 10	554
4716	31. DUNSCOMBE, C. S. (Act.), Gas, Heating and Illuminating; Mineral Oils	Oct. 10	Oct. 10	1,004
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 22	Nov. 24	392
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs	Oct. 20	Oct. 23	707
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles, Railways, Rolling Stock, Switches, and Signals; Track Sanders; Fluid-Pressure Brakes.	Oct. 12	Oct. 10	874
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Oct. 14	Oct. 20	606
7624	36. McFAYDEN, A. D., Geometrical and Measuring Instruments; Force Measuring	Sept. 14	Sept. 15	1,210
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 16	Nov. 17	406
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Cement and Lime; Roads and Pavements; Plastic Compositions.	Oct. 14	Oct. 16	717
4874	39. WHITNEY, F. J., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 1	Nov. 4	642
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Nov. 1	Nov. 1	928
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Oct. 25	Nov. 1	433
3882	42. CUTTING, H. O., Electric Signaling	Oct. 10	Oct. 7	825
4886B	43. KLINGE, E. F., Medicines; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch	Oct. 14	Oct. 14	657
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Oct. 11	Oct. 11	731
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides; Motors; Valve-Operating Mechanism; Engine Cooling.	Oct. 14	Oct. 14	414
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Nov. 23	Nov. 23	335
7600	47. BARKER, H., Clutches; Brakes	Oct. 19	Oct. 16	1,017
5731	48. ROSPKE, O. B., Electricity, General Applications; Igniters	Oct. 20	Oct. 18	599
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Oct. 10	Oct. 10	667
4701	50. BLAKE, C. L., Varnish; Coating Processes; Carbohydrate and Condensation Products; Cellulose; Rubber.	Oct. 10	Oct. 10	936
5628	51. BACKUS, C. D., Radiant Energy	Nov. 15	Nov. 15	693
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Nov. 15	Nov. 27	462
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Nov. 28	Dec. 1	398
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light-Sensitive Circuits; Electricity, Medical and Surgical.	Oct. 25	Oct. 27	810
6887	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery; Disinfecting Apparatus	Sept. 21	Sept. 22	767
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Oct. 18	Oct. 18	737
3626	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Nov. 13	Nov. 13	295
5605	58. DOWELL, E. F., Abrading	Dec. 11	Dec. 14	231
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Oct. 24	Oct. 25	500
5896	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime-Mover Dynamo Plants.	Oct. 10	Oct. 10	814
6734	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus	Oct. 25	Nov. 2	399
3878	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Oct. 18	Oct. 18	1,056
4888	63. WINKELSTEIN, A. H., Preserving; Bread, Pastry, and Confection Making; Agitating	Oct. 17	Oct. 18	702
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue, Liquid Coating Compositions; Fuel; Alcohol.	Nov. 10	Nov. 13	895
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Oct. 12	Oct. 12	756
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND.. Trade-Marks	†Jan. 12	†Jan. 29	909
	Labels and Prints	†Jan. 11	†Jan. 26	188
2605	Designs: H. H. KALUPY (Act.)	†Jan. 15	†Jan. 25	377

DECISIONS IN PATENT AND TRADE-MARK CASES

Court of Appeals of the District of Columbia

LUCKE ET AL. *v.* COE, COMMISSIONER OF PATENTS

No. 5,663. Decided February 5, 1934

1. SUIT IN EQUITY—SECTION 4915, REVISED STATUTES—WHAT CLAIMS MAY BE CONSIDERED.

The complainant in an equity proceeding under section 4915, Revised Statutes, is confined to the claims considered in the Patent Office and claims presented for the first time by the bill in equity may not be considered by the court.

2. SAME—SAME—SAME.

"• • • It is inconceivable that Congress, after setting up the comprehensive machinery of the Patent Office for the purpose of granting patents on applications, should authorize another tribunal, lacking the technical equipment which Congress recognized as desirable in considering applications for patents, to perform that function, and burden the courts with work which the special tribunal, peculiarly fitted to pass on claims, might by allowance render unnecessary."

3. PATENTABILITY—SUCTION CLEANERS.

Claims for a suction cleaner *Held* patentable over the prior art.

APPEAL from the Supreme Court of the District of Columbia. Reversed.

VAN ORSDEL, *A. J.*, dissenting in part.

Messrs William S. Hodges, Wallace R. Lane, and *Harry S. Demaree* for appellants.

Mr. T. A. Hostetler for appellee.

Before MARTIN, Chief Justice, and ROBB, VAN ORSDEL, HITZ, and GRONER, Associate Justices

ROBB, *A. J.*:

After the filing of the original opinion in this case [May 8, 1933], a rehearing was granted upon the application of the Commissioner of Patents.

The appeal is from a decree dismissing appellants' bill filed under the provisions of section 4915, Revised Statutes (sec. 63, tit. 35, U. S. C.), which provides that—

> whenever a patent on application is refused by the Commissioner of Patents, the applicant, unless appeal has been taken from the decision of the Board of Appeals to the United States Court of Customs and Patent Appeals, and such appeal is pending or has been decided, in which case no action may be brought under this section, may have remedy by bill in equity, if filed within six months after such refusal; and the court having cognisance thereof, on notice to adverse parties and other due proceedings had, may adjudge that such applicant is entitled, according to law, to receive a patent for his invention, *as specified in his claim, or for any part thereof,* as the facts in the case may appear. • • • [Italics ours.]

Appellant elected to invoke the jurisdiction of an equity court instead of appealing from the decision of the Board of Appeals to the United States Court of Customs and Patent Appeals.

The alleged invention relates to an electric vacuum or suction cleaner. Of the three claims that were finally rejected in the Patent Office, the claim reproduced in the margin is sufficiently illustrative.[1]

Appellants sought in the court below to amend their bill by inserting six claims in addition to those considered by the Patent Office. The court below not only sustained the decision of the Patent Office, but denied the motion to add new claims.

The question is presented, therefore, whether under the provisions of section 4915, Revised Statutes, the court may consider claims not in the application as presented to the Patent Office.

In *Butterworth* v. *Hoe*, 112 U. S. 50, 61, 29 O. G. 615, the court, after stating that section 4915, Revised Statutes, provided a remedy by bill in equity, said:

> This means a proceeding in a court of the United States having original equity jurisdiction under the patent laws, according to the ordinary course of equity practice and procedure. It is not a technical appeal from the Patent Office, like that authorized in sec. 4911, R. S., confined to the case as made in the record of that office, but is prepared and heard upon all competent evidence adduced and upon the whole merits. Such has been the uniform and correct practice in the circuit courts. *Whipple* v. *Miner*, 15 Fed. Rep. 117; *ex parte Squire*, 3 Ban. and A. 133; *Butler* v. *Shaw*, 21 Fed. Rep. 321.

We now examine the decisions cited by the court. In *Whipple* v. *Miner*, 15 F. 117, it was held that the authority of the circuit courts to grant a patent under section 4915, Revised Statutes, is an original jurisdiction, notwithstanding an adverse decision of the Commissioner of Patents.

In the *Squire Case* (3 Ban. and A. 133; 2 O. G. 1025; Case No. 13,269, 22 Fed. Cas.) it was held that a bill filed under section 4915, Revised Statutes, is an original and not an appellate proceeding, and that in such a proceeding it is proper to take testimony before an Examiner. In that case reference was made to a manuscript decision by Justice Nelson in the case of *Atkinson* v. *Boardman* (see Case No. 607, 2 Fed. Cas.), in which the Justice said that the provisions allowing the party failing in his application in the Patent Office—

> to file a bill, do not restrict the hearing, in this court, to the testimony used before the Commissioner. Either party, therefore, is at liberty to introduce additional evidence, or rather, to speak more accurately, the hearing is altogether independent of that before the Commissioner, and takes place on such testimony as the parties may see fit to produce agreeably to the rules and practice of a court of equity.

In *Butler* v. *Shaw*, 21 F. 321, in an opinion by Justice Gray of the Supreme Court, then on the circuit, the court said that in appeals from the Patent Office to the Supreme Court of the District, that court acts strictly as a court of appeal in the matter of granting patents; • • • the hearing is summary, and is confined to the specific reasons of appeal, and to the evidence produced before the Commissioner; • • •. But a bill in equity in a circuit court of the United States, under section 4915, by a party against whom an interference has been decided by the Commissioner of Patents, is a suit within the ordinary jurisdiction in equity of the courts of the United States; • • • and, as has been held in this and other circuits, the court may receive new evidence, and has the same powers as in other cases in equity.

[1] "In a suction cleaner, a casing provided with a suction mouth, means supporting the casing with the plane of the suction mouth a substantial distance above the plane normally occupied by the object to be cleaned, a series of spaced apart guard fingers carried by the casing and extending across the suction mouth, means for moving a current of air past the object to be cleaned and through the casing so as to lift said object and suspend it against said fingers, a member rotatably mounted in the casing and provided with rigid beater members having curved surfaces positioned to contact with said object, the beaters being helically mounted on the rotatable member and arranged in a series extending from one end of said rotatable member to the other, said beaters being rigidly secured to the rotatable member and having orbits of travel extending below the plane occupied by the object to be cleaned while suspended against said fingers, but not extending to the plane in which said object normally rests when not suspended, and means rotating the rotatable member."

It thus appears that the question here in issue was not involved or considered in *Butterworth* v. *Hoe*, supra. The court did rule in that case that new *evidence* might be introduced. That such was the understanding of the court is apparent in the decision in the subsequent case of *Gandy* v. *Marble*, 122 U. S. 432, 439, 39 O. G. 1423, where the court observed:

> Although, as was said by this court in *Butterworth* v. *Hoe*, 112 U. S. 50, 61 (citing cases), the proceeding by bill in equity, under sec. 4915, on the refusal to grant an application for a patent, intends a suit according to the ordinary course of equity practice and procedure, and is not a technical appeal from the Patent Office, nor confined to the case as made in the record of that office, but is prepared and heard upon all competent evidence adduced and upon the whole merits, yet the proceeding is, in fact and necessarily, a part of the application for the patent.

Schiller v. *Robertson*, (D. C. Md. 1928) 28 F.(2d) 301, and *Kaplan* v. *Robertson*, (D. C. Md. 1931) 50 F.(2d) 617, are relied upon by appellants. The decision on this point in the *Schiller Case* was based upon agreement of counsel, and contained no discussion of the question. In the *Kaplan Case* it was ruled that the court—

> may consider claims not included in the application filed in the Patent Office, provided they are germane to the subject-matter.

citing the *Schiller Case* as authority for the ruling.

[1] This court in *Durham* v. *Seymour*, 6 App. D. C. 78, 71 O. G. 601, (1895), in a painstaking opinion, squarely ruled that the complainant in an equity proceeding under section 4915 is confined to the claims presented in the Patent Office and that the patent must issue, if at all, upon those claims only.

In our view, the law was correctly stated in that decision. Section 4888, Revised Statutes, (sec. 33, tit. 35, U. S. C.), requires an applicant for a patent to make application to the Commissioner of Patents in writing. The application must contain a description of the invention and the applicant must—

> point out and distinctly claim the part, improvement or combination which he claims as his invention or discovery.

The provision in section 4915 that the court—

> may adjudge that such applicant is entitled, according to law, to receive a patent for his invention, as specified in his claim, or for any part thereof, as the facts in the case may appear.

refers to the claim passed upon by the Patent Office. A supposed invention or discovery is usually an improvement on some existing article, process, or machine.

It is necessary, therefore,

for the alleged inventor,

> in his application to the Patent Office, to describe that upon which he engrafts his invention, as well as the invention itself; * * * Congress, therefore, very wisely requires of the applicant a distinct and specific statement of what he claims to be new, and to be his invention. In practice, this allegation of the distinct matters for which he claims a patent comes at the close of the schedule or specification, * * *. This distinct and formal claim is, therefore, of primary importance, in the effort to ascertain precisely what it is that is patented to the appellant * * *.

Merrill v. *Yeomans*, 94 U. S. 68, 570, 11 O. G. 970. In *Western Electric Co.* v. *Ansonia*, 114 U. S. 447, 452, 31 O. G. 1305, the court said:

> It has been held by this court that "the scope of Letters Patent should be limited to the invention covered by the claim; and, though the claim may be illustrated, it cannot be enlarged by the language in other parts of the specification."

In *Grant* v. *Walter*, 148 U. S. 547, 554, 63 O. G. 910, it was held that the scope of the invention could only be ascertained by reference to "distinct and formal claims." See also, *In re Seabury*, 23 App. D. C. 377, 381, 110 O. G. 2238.

We think it plain that Congress did not intend to authorize the filing of claims not before the Patent Office. The instant case is enlightening on this point. It was sought to add six claims to those considered in the Patent Office. Had these claims been introduced in that Office they would have received the scrutiny of expert tribunals, and the court would have had the benefit of their reasoning and conclusion.

[2] We reaffirm our ruling in *Durham* v. *Seymour* (6 App. D. C. 78) to the effect that while section 4915 authorizes the introduction of new evidence, it does not authorize the filing of additional claims. Were it to be held that new claims could be filed under section 4915, it is conceivable that some of the claims presented for the first time in the equity proceeding might be of such a character that the Patent Office would have allowed them if they had been presented there; but it is inconceivable that Congress, after setting up the comprehensive machinery of the Patent Office for the purpose of granting patents on applications, should authorize another tribunal, lacking the technical equipment which Congress recognized as desirable in considering applications for patents, to perform that function, and burden the courts with work which the special tribunal, peculiarly fitted to pass on claims, might by allowance render unnecessary. It would mean that an inventor, whose application accompanied by a specification and drawings with but a single broad claim which was rejected in the Patent Office, might present a number of new claims to the court if germane to the specification and drawings. Such a situation would seriously affect the usefulness of the Patent Office, and create a result which Congress never intended. While the hearing in equity proceeding is *de novo*, the inquiry there must be confined to the invention claimed in the Patent Office. The lower court was right in denying the motion to add new claims.

[3] We now consider the rejected claims. The alleged invention, as in *Merrill* v. *Yeomans*, 94 U. S. 568, 570, 11 O. G. 970, is admittedly an improvement on existing suction cleaners. The three claims involved are specific, and as drawn cover nothing more than the actual improvement made. In the device, that portion of the floor covering adjacent to the suction mouth is continuously lifted a slight distance from the floor, and while so lifted and suspended is continuously given a rapid succession of blows or raps through the entire length of the mouth of the cleaner. Thereby the floor covering is subjected to vibration and forced slightly out of sealed contact with the suction mouth adjacent to the point where with each blow or rap air is admitted, thereby permitting dirt loosened by vibration and suction to be removed.

Lucke's application was filed October 23, 1922 (and subsequently assigned to the Hoover Company). The Lucke device has not only supplanted the device of the prior art, but with an increased efficiency of over 100 percent. Machines embodying the improved features have been purchased by the public in this and foreign countries to the extent of more than one hundred million dollars. While this fact is not conclusive of patentability, it is persuasive. *Minerals Separation, Ltd.* v. *Hyde*, 242 U. S. 261, 270, 234 O. G. 1311; *Diamond Rubber Co.* v. *Consolidated Tire Co.*, 220 U. S. 428, 166 O. G. 251; *The Barbed Wire Patent*, 143, U. S. 275, 58 O. G. 1555; *Smith* v. *Goodyear Dental Vulcanite Co.*, 93 U. S. 486, 11 O. G. 246; see, also, *In re Parr*, 58 App. D. C. 231, 26 F.(2d) 1009, 373 O. G. 6.

In the Patent Office the following references were relied upon: Dolph (reissue), No. 11,541, May 26, 1896; Hutchinson, No. 813,557, February 27, 1906; Blake, No. 1,207,480, December 5, 1916; Hoover, No. 1,247,837, November 27, 1917: Hoover, No. 1,364,554, January 4, 1921. It was not found by the tribunals of the Patent Office that any one of the references was an anticipation of the Lucke device, but that the references, taken collectively, would enable an expert to spell out the improvement admittedly made by Lucke.

The reissue to Dolph is not a suction machine and was not designed to function as does the Lucke machine and is not capable of so functioning. It is a brush machine and is equipped with a few hinged beaters which, according to Dolph's specification, are—

> so regulated that they will just strike the surface of the carpet as the brush is rapidly revolved.

The Hutchinson patent discloses a device similar to that of Dolph. The brush is relied upon for throwing the dirt into a dustpan, and no means are provided for creating a suction. The rug or carpet lies flat against the floor while the device is in operation. The Hutchinson specification refers to beaters consisting of small metallic or rubber balls, these beaters being—

> flexibly connected with the shaft in any suitable manner.

That the function of these beaters is not important is apparent from the fact that only two of them are shown in any one figure of the drawing. The rug or carpet while being cleaned lies flat on the floor, and it is impossible for the beaters to function as do the "rigidly mounted beaters" of the Lucke device. In our view, the small number of flexibly mounted balls in the Hutchinson device were designed merely to add to the effectiveness of the brush.

The beaters in the Blake machine are circumferentially spaced 180 degrees apart and strike only twice in a complete revolution of the rotor. They are not arranged spirally and are not formed of rigid projections spaced apart the proper distance to give the necessary successive vibrations to the carpet. In our view, the Blake beaters do not suggest the beaters of the Lucke device. The title to Blake's patent, "Combined suction cleaner, blower and polishing device", is suggestive. A machine capable of polishing will not function as does the Lucke machine. The beaters of the Lucke machine are helically mounted and arranged in series extending from one end of the rotatable member to the other. Blake shows two separate disconnected beaters and, while he states that more may be used, the suggestion is of little consequence. In our opinion the Blake device is not an anticipation of the device of the Lucke machine.

The Board of Appeals stated:

> The main reference relied upon by the Examiner is the patent to Hoover, No. 1,247,837, upon which the claims clearly read, except for the limitation to rigidly mounted beater elements.

We attribute more importance to the exception than do the tribunals of the Patent Office. The beaters in the brush of the Hoover patent are, in our view, incapable of performing the function of the rigidly mounted beater elements of the Lucke machine—namely, beating the carpet or rug. All the objections to the brush-type cleaner are present in the Hoover machine, and are eliminated in the Lucke device.

The record discloses that the Hoover Company maintains a corps of engineers whose duty it is to design improvements in suction cleaners. All the patents relied upon by the Patent Office as anticipating Lucke's device were before these engineers, yet, highly skilled in the art as they were, they were unable to do what Lucke has done—namely, produce a machine that is a greater advance over the prior art than any one of the patents referred to by the Patent Office tribunals. It is comparatively easy, now that the Lucke device is in evidence, to take this and that from the references and achieve a nunc pro tunc solution of the problems confronting Lucke when he made his invention. We rule, therefore, that the claims denied by the Patent Office should be allowed.

The decree dismissing the bill is reversed and the cause remanded for further proceedings in harmony with this opinion.

Reversed and remanded.

Mr. Justice VAN ORSDEL, adhering to his original opinion in this case, dissents from the holding that additional claims may not be introduced in the equity proceedings under section 4915, Revised Statutes, but concurs as to the patentability of the invention under the claims considered.

ORIGINAL DECISION—MAY 8, 1933

This appeal is from a decree dismissing appellant's bill of complaint filed in the Supreme Court of the District of Columbia under section 4915, Revised Statutes; 35 U. S. C. A. 63, as follows:

> Whenever a patent on application is refused, either by the Commissioner of Patents or by the Court of Appeals of the District of Columbia upon appeal from the Commissioner, the applicant may have remedy by bill in equity; and the court having cognisance thereof, on notice to adverse parties and other due proceedings had, may adjudge that such applicant is entitled, according to law, to receive a patent for his invention, as specified in his claim, or for any part thereof, as the facts in the case may appear. And such adjudication, if it be in favor of the right of the applicant, shall authorize the Commissioner to issue such patent on the applicant filing in the Patent Office a copy of the adjudication, and otherwise complying with the requirements of law. In all cases, where there is no opposing party, a copy of the bill shall be served on the Commissioner; and all the expenses of the proceeding shall be paid by the applicant, whether the final decision is in his favor or not.

By the act of Congress of March 2, 1927, 44 Stats. 1336, a Board of Appeals was created, changing the procedure in the Patent Office. Prior to this time appeals were allowed in the Patent Office from the Examiners to the Board of Examiners in Chief and from the decision of this Board to the Commissioner. From the decision of the Commissioner an appeal lay to the Court of Appeals of the District of Columbia. This act eliminated the appeal to the Commissioner, terminating the action in the Patent Office with the decision of the Board of Appeals. The act further provided that the party appealing might elect either to appeal to the Court of Appeals of the District of Columbia or proceed in equity under section 4915 of the Revised Statutes. Prior to this time, until a decision of the Court of Appeals, no action would lie under section 4915; but by this act the party appealing was required to elect whether he should proceed before the Court of Appeals or under section 4915.

By the act of Congress of March 2, 1929, the title of the United States Court of Customs Appeals was changed to the United States Court of Customs and Patent Appeals, and the jurisdiction theretofore vested in the Court of Appeals of the District of Columbia, in respect of appeals from the Patent Office, was vested in the Court of Customs and Patent Appeals. It was provided that—

> Nothing contained in this act shall be construed as affecting in any way the jurisdiction of the Court of Appeals of the District of Columbia in equity cases.

It thus appears that an applicant for a patent, dissatisfied with the decision of the Patent Office, may either appeal to the Court of Customs and Patent Appeals, or may proceed in a court of equity of competent jurisdiction under section 4915.

Appellants, plaintiffs below, sought to amend their bill by inserting six additional claims that had not been presented or considered in the Patent Office. The court below denied plaintiffs' motion to amend, and plaintiffs, standing upon their motion, allowed a decree to be entered dismissing the bill from which this appeal was taken.

The question is presented for the first time in this jurisdiction as to the nature of the proceeding under section 4915, whether it is to be treated as an appeal from the Patent Office or as a general equity proceeding. It is insisted by counsel for the Commissioner that the equity proceeding must be heard upon the issues decided in the Patent Office, while it is contended on behalf of the plaintiffs that it is in the nature of a general equity suit under section 4915. This question seems to have been first considered in the case of *Butterworth* v. *Hoe*, 112 U. S. 50, 61, 29 O. G. 615, where the court said:

> As already stated, the case of interferences is expressly excepted by section 4911 from the appeals allowed to the Supreme Court of the District. Further provision, covering such and also of other cases in which an application for a patent has been refused, either by the Commissioner of Patents or by the Supreme Court of the District, is found in Revised Statutes, section 4915. It is thereby provided that the applicant may have remedy by bill in equity. This means a proceeding in a Court of the United States having original equity jurisdiction under the patent laws, according to the ordinary course of equity practice and procedure. It is not a technical appeal from the Patent Office, like that authorized in section 4911, confined to the case as made in the record of that Office, but is prepared and heard upon all competent evidence adduced and upon the whole merits. Such has been the uniform and correct practice in the circuit courts. *Whipple* v. *Miner*, 15 Fed. Rep. 117; *Ex parte Squire*, 3 Ban. and A. 133; *Butler* v. *Shaw*, 21 Fed. Rep. 321. It is provided that the court having cognisance thereof, on notice to adverse parties and other due proceedings had, may adjudge that such applicant is entitled, according to law, to receive a patent for his invention, as specified in his claim, or for any part thereof, as the facts in the case may appear. And such adjudication, if it be in favor of the right of the applicant, shall authorize the Commissioner to issue such patent on the applicant filing, in the Patent Office, a copy of such adjudication, and otherwise complying with the requirements of law.

It thus appears that the present proceeding is not an appeal from the Patent Office but a trial *de novo*, with full power vested in the equity court to hear the evidence and make its own findings, independent of the proceedings had in the Patent Office. *Model Bottling Machinery Co.* v. *Anheuser-Busch Brewing Association*, 190 Fed. 573; *Clements* v. *Kirby*, 274 Fed. 575, 292 O. G. 879; *Miehle Printing Press and Manufacturing Co.* v. *Miller Saw Trimmer Co.*, 6 F.(2d) 417.

In the recent case of *Kaplan* v. *Robertson*, 50 F.(2d) 617, Judge Coleman in the District Court of Maryland, in an able opinion, holding that the proceeding under section 4915 is in the nature of a general equity suit, said:

> We will address ourselves first to the Commissioner's contention (a) that the two additional claims, because submitted for the first time in the bill of complaint, should not be considered; and (b) that, even if entertained, they are not supported by the drawings, and that therefore the application fails to meet the requirements of section 4888 of the Revised Statutes (35 U. S. C. A., sec. 633). "We are not impressed with the merit of either of these arguments. "This court, in a proceeding of this kind, may consider claims not included in the application filed in the Patent Office, provided they are germane to the subject matter. *Schiller* v. *Robertson* (D. C.), 28 F.(2d) 801, and cases therein cited.

In the *Schiller Case* the court considering the scope of the proceeding in equity said:

> It is within the power of the court to pass a decree directing the Commissioner of Patents to issue a patent on claims presented to the court, although not included in the application as filed in the Patent Office, provided that the new claims are germane to the subject matter.

In the present case it is not contended that the claims sought to be inserted by way of amendment by plaintiffs in the court below were not germane to the subject matter.

Following the Butterworth decision, the Federal courts have been of one mind in holding that the proceeding under section 4915 is not in the nature of an appeal but a trial *de novo*, with all the power of an equity court to hear the evidence and make its own findings with jurisdiction to adjudicate whether or not the applicant is entitled according to law to receive a patent for his alleged invention. *Barry* v. *Robertson*, 40 F.(2d) 915; *Perkins* v. *Lawrence Sperry Air Craft Co.*, 57 F.(2d) 719; *Green et al* v. *Biedler et al.*, 47 F.(2d) 927; *Hermandez* v. *Prizma, Inc.*, 39 F.(2d) 196; *Harper* v. *Zimmerman*, 41 F.(2d) 261; *Ingersoll* v. *Holt*, 104 F. 682.

Inasmuch as plaintiffs were denied the right to amend their bill and incorporate the six additional claims in the court below, the cause must be remanded for a hearing upon the merits under the amended bill.

The decree is therefore reversed at the cost of plaintiffs, and the cause is remanded for further proceedings not inconsistent with this opinion.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,128,292, E. H. Colpitts, Electric wave amplifier; 1,231,764, F. Lowenstein, Telephone relay; 1,426,754, R. C. Mathes, Circuits for electron discharge devices; 1,432,022, R. A. Heising, Circuit connection of electron discharge apparatus; 1,448,550, H. D. Arnold, Thermionic amplifier circuit; 1,504,537, same, Power limiting amplifying device; 1,483,273, D. G. Blattner, Circuit for heating the filaments of audions; 1,493,595, same, Amplifying with vacuum tubes, D. C. Del., Doc. E 734, *Western Electric Co., Inc., et al.* v. *The Stanley Co. of America.* Claims 1, 2, 4, 5, 6, and 7 of 1,231,764 held valid and infringed; bill dismissed with prejudice as to claim 25 of 1,426,754, claims 1 and 5 of 1,128,292, claims 17, 19, 20, 33, 34, 35, and 36 of 1,504,537, claims 6 and 8 of 1,483,273, and dismissed without prejudice as to 1,432,022, 1,448,550, and 1,493,595 Dec. 11, 1933.

1,141,402, R. D. Merahon, Electrolytic apparatus employing filmed electrodes; 1,784,674, same, Film formation and operation of electrolytic condensers and other apparatus, appeal filed Dec. 8, 1933, C. C. A., 1st Cir., Doc. 2880, *Sprague Specialties Co.* v. *R. D. Mershon et al.*

1,231,764. (See 1,128,292 and 1,465,332.)

1,251,377, A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,297,188, I. Langmuir, System for amplifying variable currents; 1,477,898, C. W. Rice, Amplifying system, filed Dec. 21, 1933, D. C., S. D. N. Y., Doc. E 77/82, *General Electric Co.* v. *J. D. Mendelson* (*Metro Mfg. Co.*).

1,254,317, W. H. Faust, Process for converting garbage into food, D. C., S. D. Calif. (Los Angeles), Doc. T–19–C, *U. S. Mfg. Co., Ltd.*, v. *National Conservation Co., Ltd., et al.* Dismissed Oct. 19, 1933.

1,258,989, E. Craig, Wire bound box blank machine, D. C. Del., Doc. E 630, *Wirebounds Patents Co. et al.* v. *Saranac Automatic Machine Corp. et al.* Consent decree dismissing bill Dec. 22, 1933.

1,297,188. (See 1,251,377.)

1,324,983, R. R. Rosenbaum, Process and apparatus for treating hydrocarbons; 1,456,419, J. C. Black, Process and apparatus for the production of low boiling point hydrocarbons; 1,734,079, W. M. Cross, Heater; 1,869,837, Howard & Loomis, Art of converting oil, filed Dec. 26, 1933, D. C., W. D. Okla. (Oklahoma City), Doc. E 1568, *Gasoline Products Co., Inc.*, v. *The Globe Oil & Refining Co.*

1,365,091, A. W. Clement, Alloy; 1,432,289, Hamilton & Evans, Method of reducing metals and making alloys, appeal filed Dec. 14, 1933, C. C. A., 4th Cir., Doc. 3601, *American Stainless Steel Co. et al.* v. *Rustless Iron Corp. of America.*

1,375,658, C. F. Gilchrist, Dynamo electric machine and brush holder device therefor; 1,443,073, 1,520,237, same, Dynamo electric machine, filed Dec. 27, 1933, D. C., E. D. N. Y., Doc. E 7150, *The Electric Auto-Lite Co.* v. *P. & D. Mfg. Co., Inc., et al.*

1,384,460, E. B. Haley, Mineral oil emulsion, D. C. Del., Doc. E 940, *The Haley M-O Co.* v. *United Drug Co. et al.* Consent decree adjudging claims 1 and 2 valid and infringed Dec. 12, 1933.

1,394,231, C. A. Soans, Listing device; 1,594,112, 1,683,207, F. D. Powell, Flexible index strip, appeal filed Dec. 22, 1933, C. C. A., 4th Cir., Doc. 3603, *Remington Rand Business Service, Inc.*, v. *Acme Card System Co.*

1,403,932. (See 1,465,332.) 1,426,754. (See 1,128,292.)

1,431,260, 1,483,522, H. Rosen, Button making machine; 1,536,530, same, Button; 1,549,806, Rosen & Salsburg, Trimming, filed Dec. 20, 1933, D. C., S. D. N. Y., Doc. E 77/72, *B. Salsburg et al.* v. *M. Litwer* (*Victory Button Co.*).

1,432,022. (See 1,128,292.) 1,432,289. (See 1,365,091.)

1,436,459, J. Reece, Seat cover, filed Dec. 28, 1933, D. C., S. D. N. Y., Doc. E 77/93, *Evr-Klean Seat Pad Co.* v. *J. P. Hughes.* Doc. E 77/94, *Evr-Klean Seat Pad Co.* v. *H. Shalov* (*Harry's Motor Supply Co.*).

1,443,073. (See 1,375,658.) 1,448,550. (See 1,128,292.)

1,456,419. (See 1,324,983.)

1,465,332. H. D. Arnold, Vacuum tube amplifier; 1,573,374, P. A. Chamberlain, Radio condenser; 1,618,017, F. Lowenstein, Wireless telegraph apparatus; 1,231,764, same, Telephone relay; 1,702,883, W. S. Lemmon, Electrical condenser; 1,811,095, H. J. Round, Thermionic amplifier and detector; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation; 1,403,932, R. H. Wilson, Electron discharge device, filed Dec. 21, 1933, D. C., S. D. N. Y., Doc. E 77/83, *Radio Corp. of America et al.* v. *J. D. Mendelson* (*Metro Mfg. Co.*).

1,467,930, J. W. Fretwell, Locked razor, filed Dec. 26, 1933, D. C., S. D. N. Y., Doc. E 77/90, *J. W. Fretwell* v. *United Cigar Stores Co. of America et al.*

1,477,898. (See 1,251,377.) 1,483,273. (See 1,128,292.)

1,483,522. (See 1,431,260.) 1,493,595. (See 1,128,292.)

1,504,537. (See 1,128,292.) 1,520,237. (See 1,375,658.)

1,536,530. (See 1,431,260.)

1,539,922, O. C. Thompson, Machine for use in making boxes, D. C., S. D. Tex. (Houston), Doc. E 414, *Wirebounds Patents Co. et al.* v. *Continental Wirebound Box Co.* Dismissed Nov. 22, 1933.

1,599,628, Hurxthal & Hurxthal, Automatic temperature control for bread toasters, filed Dec. 8, 1933, D. C. Del., Doc. ———, *Proctor & Schwartz Electric Co.* v. *Samson United Corp.*

1,549,806. (See 1,431,260.) 1,572,773. (See 1,901,735.)

1,573,374. (See 1,465,332.) 1,594,112. (See 1,394,231.)

1,597,129, L. L. Watters, Bed-pan cleanser and steriliser, C. C. A., 2d Cir., Doc. 12816, *L. L. Watters et al.* v. *The Kny-Scheerer Corp.* Decree modified (notice Dec. 20, 1933).

1,618,017. (See 1,465,332.) 1,627,958. (See 1,901,735.)

1,629,999. (See Re. 16,803.) 1,649,828. (See 1,901,735.)

1,663,505, W. H. Mason, Hard grainless fiber product and process of making same, D. C. Del., Doc. E 871, *Masonite Corp.* v. *The Celotex Co.* Decree upon mandate holding claims 5, 6, 14, 16, 20, 22, 23, and 26 valid and claims 5, 6, 14, 16, 20, and 23 infringed Dec. 8, 1933.

1,670,656. (See Re. 16,611.)

1,680,646, G. E. Smith, Molded article and method of making same; 1,847,414, same, Method of making wheels; 1,697,616, same, Wooden steering wheel and method of making same; 1,740,750, 1,816,445, same, Steering wheel and method of making same; 1,843,906, same, Method of making wheels and wheel blanks formed thereby; 1,843,904, Smith & Morgan, Method of making molded wheels, filed Dec. 21, 1933, D. C., S. D. N. Y., Doc. E 77/85, *Poughkeepsie Trust Co.* v. *U. S. Rubber Co.*

1,683,207. (See 1,394,231.) 1,697,616. (See 1,680,646.)

1,702,833. (See 1,465,332.) 1,710,453. (See Re. 16,803.)

1,725,742, J. A. Singmaster, Artificial silk filament and method of making same, D. C., S. D. N. Y., Doc. E 59/197, *Tubize Chatillon Corp.* v. *Princeton Rayons, Inc.* Consent decree for plaintiff (notice Dec. 22, 1933). Same, D. C. Del., Doc. E 864, *Tubize Chatillon Corp.* v. *Industrial Rayon Corp.* Consent decree holding patent valid and infringed Dec. 27, 1933.

1,734,079. (See 1,324,983.) 1,740,750. (See 1,680,646.)

1,746,027, P. J. Cannon, Sidewalk bridge, filed Dec. 18, 1933, D. C., S. D. N. Y., Doc. E 77/71, *Garrison Avenue Corp.* v. *Interstate Scaffolding & Shoring Corp.*

1,758,146, W. M. Cross, Domestic heating system, filed Dec. 18, 1933, D. C. Mo. (Kansas City), Doc. 2430, *Mid-Continent Investment Co.* v. *W. M. Schermes.*

1,784,470, C. Steinberg, Hat, D. C., S. D. N. Y., Doc. E 60/172, *Columbia Hat Mfg. Co., Inc.*, v. *Kaufman Hats, Inc.* Consent order of discontinuance (notice Dec. 26, 1933). Doc. E 67/173, *Columbia Hat Mfg Co., Inc.*, v. *J. Elishewitz & Sons Co., Inc.* Decree as above.

1,784,674. (See 1,141,402.)

1,785,770, Faber & Driggs, jr., Aerial toy, D. C. Del. Doc. E 866, *Tipp Wireworks Co., et al.*, v. *Victory Sparkler & Specialty Co.* Claim 2 held valid and infringed Nov. 3, 1933.

1,786,026. F. H. Owens, Talking picture apparatus, filed Dec. 27, 1933, D. C., S. D. N. Y., Doc. E 77/91, *F. H. Owens* v. *Electrical Research Products, Inc., et al.*

1,811,095. (See 1,465,332.) 1,816,445. (See 1,680,646.)

1,828,094, H. Andrews, Electrical frequency-changing apparatus of the thermionic type, filed Dec. 7, 1933, D. C. Del., Doc. E 1046, *Radio Patents Corp.* v. *Westinghouse Electric Supply Co.*

1,831,151. (See 1,901,735.)

1,841,159, L. Silverman, Method of making textile fabrics, filed Dec. 21, 1933, D. C., S. D. N. Y., Doc. E 77/77, *Millinery Braid Mf'rs. Research Corp.* v. *I. Lavenberg et al.* (*L. & L. Trading Co.*). Doc. E 77/78, *Millinery Braid Mf'rs. Research Corp.* v. *M. Shoenthal, Inc.* Doc. E 77/79, *Millinery Braid Mf'rs. Research Corp.* v. *R. Levine.* Doc. E 77/80, *Millinery Braid Mf'rs. Research Corp.* v. *Herbert Silk Co., Inc.* Doc. E 77/81, *Millinery Braid Mf'rs. Research Corp.* v. *H. Pollack, Inc.*

1,843,904. (See 1,680,646.) 1,843,906. (See 1,680,646.)

1,847,414. (See 1,680,646.)

1,855,168, C. L. Farrand, Loudspeaker, appeal filed Dec. 9, 1933, C. C. A., 1st Cir., Doc. 2826, *Utah Radio Products Co. et al.* v. *R. T. Boudette et al.* (*Boudette & Co.*).

1,869,337. (See 1,324,983.)

1,875,894, J. A. Singmaster, Artificial silk filament and method of making same, D. C. Del., Doc. E 1008, *Tubize Chatillon Corp.* v. *Industrial Rayon Corp.* Consent decree holding patent valid and infringed Dec. 27, 1933.

1,879,768, I. H. Shalomith, Terminal connection for electric lamp sockets, filed Dec. 22, 1933, D. C., S. D. N. Y., Doc. E 77/87, *I. H. Shalomith* v. *Elite Lamp Co., Inc., et al.*

1,881,735, R. W. Lewis, Tire cover with wire mesh center shield; 1,886,270, C. M. Ellenberger, Tire cover, filed Nov. 13, 1933, D. C. Del., Doc. E 1043, *Lyon Cover Co.* v. *Clayton & Lambert Mfg. Co.*

1,886,270. (See 1,881,735.)

1,901,735, A. Crossley, Piezo electric crystal system; 1,572,773, same, Piezo electric crystal apparatus; 1,831,151, G. P. Walker, Temperature control system for frequency determining elements; 1,649,828, A. Hund, Method of preparing piezo electric plates, filed Dec. 26, 1933, D. C., S. D. Ohio, W. Div., Doc. E 358, *Wired Radio, Inc.*, v. *Radio Station WSMK, Inc.*

1,924,084, 1,924,085, G. A. Lyon, Cover for spare tires; 1,924,086, same, Tire cover with contractible clamping band; Des. 89,466, same, Combination spare tire cover side member and spare wheel hub closure for a tire cover; Des. 90,904, same, Design for a tire cover, filed Nov. 13, 1933, D. C. Del., Doc. E 1044, *Lyon, Inc., et al.*, v. *Clayton & Lambert Mfg. Co.*

1,924,085. (See 1,924,084.) 1,924,086. (See 1,924,084.)

1,930,987, J. T. Simmons, Method and apparatus for testing the productivity of formations encountered in wells, filed Dec. 21, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E 134–C, *C. R. Edwards* v. *J. T. Simmons et al.*

1,937,097, G. P. Schmitt, Lighter, D. C., S. D. N. Y., Doc. E 77/51, *Platinum Products Corp.* v. *R. H. Macy & Co., Inc.* Consent order of discontinuance Dec. 19, 1933.

Re. 16,611, L. L. Lewis, Method of and apparatus for cooling and ventilating; 1,670,656, W. L. Fleisher, Ventilating system, D. C., S. D. N. Y., Doc. E 71/71, *Auditorium Conditioning Corp.* v. *Maurice & Philip Gertner, Inc., et al.* Dismissed without prejudice (notice May 20, 1933).

Re. 16,803 (1,629,999), E. M. Flaherty, Low-viscosity lacquer and film produced therefrom; 1,710,453, M. V. Hitt, Nitrocellulose coating composition and film made therefrom, D. C. Del., Doc. E 908, *E. I. du Pont de Nemours & Co.* v. *Jones-Dabney Co.* Consent decree holding claims 2, 3, 6, 8, 9, 12, and 17 of Re. 16,803 valid and infringed Dec. 21, 1933; and dismissed with as to No. 1,710,453 Mar. 4, 1932.

Re. 17,605, H. L. Schecker, Electrical condenser and method for making same, C. C. A., 2d Cir., Doc. 12,725, *Aerovox Corp.* v. *Polymet Mfg. Corp.* Decree affirmed (notice Dec. 20, 1933).

Re. 18,151, H. P. Elliott, Stencil machine and stencil therefor, filed Dec. 21, 1933, D. C., S. D. N. Y., Doc. E 77/84, *Elliott Addressing Machine Co.* v. *E. F. Gladwin et al.*

Re 18,579. (See 1,465,332.)

Des. 77,477, A. C. Elishewitz, Imitation straw braid fabric for hats, D. C., S. D. N. Y., Doc. E 49/113, *J. Elishewitz & Sons Co., Inc.*, v. *Columbia Hat Mfg. Co., Inc.* Consent order of discontinuance (notice Dec. 26, 1933).

Des. 89,466. (See 1,924,084.)

Des. 90,904. (See 1,924,084.)

T. M. 54,931, Cadillac Automobile Co., Automobiles; T. M. 113,351, Cadillac Motor Car Co., Motor vehicle and parts thereof; T. M. 201,694, T. M. 226,207, General Motors Corp., Automobiles, D. C., N. D. Ill., E. Div. Doc. 13,381, *General Motors Corp.* v. *A. Pasko et al.* Injunction granted Sept. 27, 1933.

T. M. 113,351. (See T. M. 54,931.)

T. M. 201,694. (See T. M. 54,931.)

T. M. 226,207. (See T. M. 54,931.)

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 27, 1934

[VOL. 439. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 343,561. A. KNOEDLER COMPANY, Lancaster, Pa. Filed Nov. 11, 1933.

GEMSTONE

The Petrified Sunshine

For Hardened Plastic Composition for Various Manufacturing Purposes in the Arts.

Claims use since Oct. 6, 1933.

Ser. No. 343,650. HARTZ MOUNTAIN PRODUCTS INC., New York, N. Y. Filed Nov. 14, 1933.

CUTTLE CHARM

The word "Cuttle" is disclaimed apart from the mark as shown on the drawing.

For Cuttle Bone for Birds.

Claims use since Sept. 15, 1932.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 331,220. DE-O-EZ PRODUCTS CORPORATION, Rochester, N. Y. Filed Oct. 13, 1932.



The lining on the drawing represents the colors blue and yellow. Applicant hereby disclaims the words "Cleanser" and "A Cleaner That Cleans" apart from the mark as shown on the drawing.

For Polishing and Cleaning Powder for General Household and Laundry Use.

Claims use since Oct. 5, 1932.

Ser. No. 340,938. ALEXANDRE CHARRON, doing business as Warren Chemical Company, Fall River, Mass. Filed Aug. 22, 1933.

BLACK SEAL



For Stove Polish.

Claims use since Feb. 20, 1932.

Ser. No. 345,506. GEO. J. KELLY, INC., Lynn, Mass. Filed Dec. 30, 1933.

RAINBOW

For Colored Dressings for Shoes and Other Articles Mainly of Leather and Fabric.

Claims use since June 27, 1917.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 315,059. MILLER WHOLESALE DRUG COMPANY, Cleveland, Ohio. Filed May 26, 1931.



The words "Products", and "3328 Carnegie Ave., Cleveland, Ohio", are disclaimed apart from the mark as shown.

For Adrolsol, Analgesic Balm, Powdered Alum, Ammonia Water, Ammoniated Mercury Ointment 5% and 10%, Aromatic Cascara, Antiseptic Solution, Aspirin Capsules (German 5 Grain), Chocolate Aspirin, Argyrol, Aspirin Tablets, Aromatic Spirits of Ammonia; Aloim, Belladonna, Strychnine and Cascara; Amidopyrine Tablets (5 Grain), Acetyl Compound Tablets, Aloin and Phenolphthalein Tablets, Boric Acid Powder, Bac-cul, Benedict's Solution Quantitative, Benedict's Solution Qualitative, Boric Acid Crystals, Bay Rum, Burn Ointment, Barbital Tablets (5 Grain), Boric Acid Ointment White Base, Boric Acid Ointment Yellow Base, Brown Mixture, Compound Tincture of Benzoin, Soda Bicarbonate, Brewer's Yeast Medicinal, Triple Bromides No. 1, Triple Bromides No. 2; Chloroform Liniment, Cool (Unperfumed), Cool (Perfumed); Cascara Sagrada Extract (5 Gr.), Camphorated Oil, Calamine Lotion with Phenol, Calamine Lotion Plain, Chalk and Orris, Compound Licorice Powder, Cod Liver Oil, Cream of Tartar, Corrosive Mercuric Chloride, Cold Cream, C. M. A. Ointment, Cincophen Tablets (7½ Gr. 7 5 Gr.), Cathartic Compound, Coryza, Castor Oil; Cascara Compound, Pink, Dr. Hinkle's; Calcium Lactate Tablets (5 and 10 Gr.), Compound Elixir Pepsin N. F., Cocoanut Oil for Medicinal Use, Cotton Seed Oil for Medicinal Use, Citrate Magnesia, Corn Collodion, Compound Tincture Benzoin, Carbon Tetrachloride, Dobell's Solution Tablets, Dobell's Solution Dysmeno Compound, Denatured Alcohol, Essence Peppermint, Extract Witch Hazel, Eye Drops, Ephrol Capsules of Ephedrine Sulphate, Ephrol (Plain), Ephrol Solution (Aqueous), Ephrol Capsules of Ephedrine Hydrochloride, Ephrol Syrup Plain, Epsom Salts, Elixir Gardinol, Egyptian Henna (Powder), Egyptian Leaves, Ephedrine Asthmatic Compound, Elixir Bromide and Chloral Compound, Ephedrine Creme, Elixir Ephedrine Asthmatic, Elixir Iron Malate Compound, Elixir Terpin Hydrate and Codeine, Ephedrine Expectorant, Ephrol, Eau de Lavande, Eau de Cologne, Eye Water, Commercial Ether, C. T. Extract Belladonna (⅙ Grain), Ear Drops, Flatulence S. C. T. yellow, Elixir Terpin Hydrate and Heroin, Flowers of Sulphur, Florentine Orris, Flaxseed, Foot Rest Powder, Fehling Solution (B), Alk. Tartrate Sol.; Fehling Solution (A), Copper Sol.; Glycerin Mixture, Glycerin and Rosewater, Glycerin, Gel-Aspirin Compound Tablets, Gardinol Tablets (½, ¼, and 1½ Grain), Glycerin and Rosewater and Benzoin, Hexamethylenamine (5 Gr. and 7½ Gr.), Hydrogen Peroxide, Icthyol Ointment (5 and 10%), Tincture Iodine, Iron Carbonate Saccharated, Larkspur Lotion, Liquid Court Plaster, Lanolin Creme; Iron, Quinia and Strychnine; Insecticide, Insect Powder, Iron Oxide Saccharated, Mineral Oil for Medicinal Use, Milk Magnesia, Methyl Alcohol, Milk Bismuth, Minted Soda, Mustard for Medicinal Use, Astringent Mouth Wash (3%); Nose Drops, Adult, Children, and Infants; Oil Citronella, Olive Oil for Medicinal Use, Oil Wintergreen, Oil of Eucalyptus, Oil Pine Needles, Pure Oxygen, Potassium Bromide, U. S. P., Granular; Potassium Citrate, U. S. P., Granular; Black Psyllium Seed, White Psyllium, Penetrol Liniment, English Precipitated Chalk, Sodium Chloride (15.5 Gr.), Potassium Permanganate Tablets (3 Gr., 1 Gr., 5 Gr.), Paregoric, Quinine Capsules, Rochelle Salts; Rhinitis, Full Strength, and also Half Strength; Syrup White Pine Compound, Rhubard and Soda Mixture, Silk Shampoo; Sodium Phosphate, U. S. P., Gran.; Soda Mint Tablets, Sunburn Lotion, Solution Formaldehyde, Soda Mint Granules, Sweet Spirits Nitre, Sodium Phosphate, Silicate Soda, Sodium Bicarbonate (5 Gr. and 10 Gr.), Sodium Hyposulphite, Syrup Ipecac, Saturated Solution Boracic Acid, Solution Cresol Compound, Solidified Liniment, Syrup Parico, Syrup Wild Cherry Compound, Sodium Perborate Aromatized, Sodium Perborate, Solaseptine, Spirits Camphor; Seidlits Powder, U. S. P.; Soap Liniment, Syrup Tolu Dionin Com., Syrup Cherry-Dionin Compound, Silver Protein Strong, U. S. P.; Tincture Arnica, Tincture Digitalis, Emdee Toothache Drops, Tincture Green Soap, Trilone, Tooth Powder, Tincture Nux Vomica, Throat Pastils, Talcum Purified, Violet Ammonia, Yellow Petrolatum, White Petrolatum, Yellow Oxide Ointment, Zinc Stearte, Vagol, Zinc Oxide Ointment; Ung. Aquæ Rosæ, U. S. P.; White Pine Cough Syrup, Wild Cherry Emulsion of Cod Liver Oil, Lactose, Petrolatum Carbolated, Solution Liver Extract, Gardinol Compound, Neo-Silvol, Tineol, Lubricating Jelly for Medicinal Use, Neo Cincophen Tablets (5 Gr.), Soda Mint and Pepsin Tablets, Papoydin Tablets, Rhubard and Soda Compound Tablets, Soda Mint Tablets, C. C. T. Aloin and Phenolphthalein Tablets, Acetyl Compound Tablets, Flatulence Tablets.

Claims use since Mar. 1, 1927.

Ser. No. 338,482. BOURJOIS, INC., New York, N. Y. Filed June 3, 1933.

Barbara Gould

NUMBER FORTY

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream and Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Chemical Preparations Suitable for the Darkening of Eyelashes and Eyebrows, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Depilatories, Nail Creams, Nail Polishes, Nail Bleaches, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.

Claims use since Feb. 16, 1933.

Ser. No. 341,447. SOUTHWESTERN DRUG CORPORATION, Waco, Tex. Filed Sept. 8, 1933.



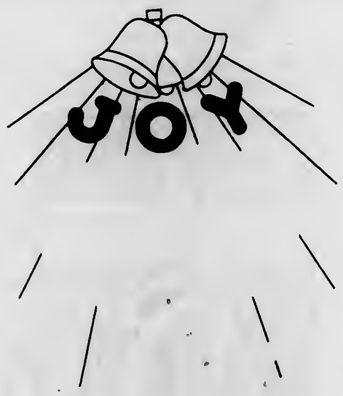
The drawing is lined for red.

For Boric Acid, Carbolic Acid, Oxalic Acid, Salicylic Acid, Alcohol for Rubbing Purposes, Alum, Antiseptic Solution, Oil of Hyoscyamus Compound, Bay Rum, Bismuth Subnitrate, Blue Vitriol, Borax, Calomel, Camphorated

Oil, Cascara, Castor Oil, Chloroform, Copperas, Cream Tartar, Dobell Solution, Epsom Salts, Carbonate of Lead, Flax Seed, Flax Seed Meal, Glycerine, Glycerine and Rosewater, Larkspur Lotion, Lead Sugar, Licorice Compound Powder, Dibrom-Oxymercuri-Fluorescein-Sodium, Mineral Oil for Internal Lubricating Purposes, Moth Balls, Nux Vomica, Paregoric, Permanganate Potash, Rochelle Salts, Salt Petre, Sassafras Bark, Senna Leaves, Sodium Bicarbonate, Spirits Ammonia, Spirits Camphor, Spirits Nitre, Spirits Peppermint, Sulphur, Sweet Oil, Syrup White Pine Compound, Toothache Drops, Tincture of Iodine, Witch Hazel, Ammonia Carbolic Salve, Citrate of Magnesia, Insect Spray, Ether, White Pine Cough Syrup with Tar, White Pine Cough Syrup Mentholated, Hand Lotion, Compound Solution of Sodium Borate, Lead Acetate, Chigger Lotion, Blue Stone, Toilet Ammonia, After Shaving Lotion, Phenolated Camphor, Potassium Permanganate, Laxatives in the Form of Crystals.

Claims use since Jan. 1, 1911.

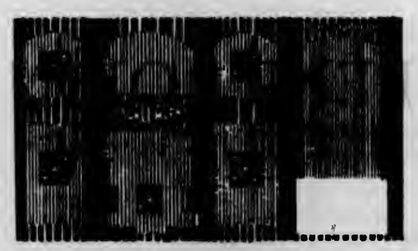
Ser. No. 342,700. MARY HURD MAGEE, doing business as Joy Products Company, Flint, Mich. Filed Oct. 20, 1933.



For Chemical Preparation—Namely, A Stain Remover, Water Softener With Incidental Cleaning Properties, Drain Pipe Cleaner, and Automobile Radiator Flushing and Cleaning Compound.

Claims use since July 19, 1933.

Ser. No. 342,707. SOCIETÀ PREPARATI CASALI, Rome, Italy. Filed Oct. 20, 1933.



The drawing is lined for shading, not color. No claim is made to the representation of the label in the drawing.

For Preparations Used in the Treatment of Diseases of the Circulatory System, Arteriosclerosis, Nervous and Rheumatic Disorders, and General Debility.

Claims use since 1931.

Ser. No. 342,991. VIRGINIA SMELTING COMPANY, West Norfolk, Va. Filed Oct. 27, 1933.

V-METH-L

The word "Meth-L" is disclaimed apart from the mark as shown.

For Purified Methyl Chloride.

Claims use since Oct. 3, 1933.

Ser. No. 342,997. COOL BURN RELIEF LOTION COMPANY, West Willington, Conn. Filed Oct. 28, 1933.



The words "Cool Burn" and "Relief Lotion" are hereby disclaimed when used apart from the mark as shown. The drawing is lined for red.

For Lotion Recommended for the Relief of Burns, Scalds, Sunburn, Cuts and Bruises.

Claims use since Sept. 8, 1932.

Ser. No. 343,269. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif. Filed Nov. 6, 1933.

CALFALFA

For Sulphur for Use as Soil Amendments and Conditioners.

Claims use since Feb. 2, 1927.

Ser. No. 343,436. HARRY L. BLISS, New York, N. Y. Filed Nov. 9, 1933.



For Face Creams—Namely, Cleansing Cream, Tissue Cream, Pore Cream, No Wrinkle Cream, Acne Cream, Foundation Cream, Bleaching Cream, Eczema Cream; Manicure Preparations, Including Cuticle Cream; Cuticle Liquid Preparation, Nail Polish; Hair Preparations—Namely, Follicle Lotion, Hair Tonic, Finger Wave Lotion, Waving Fluid Compound, Brilliantine, Rose Oil, Antiseptic Hair Cream, Egyptian Hair Powder, Crystallized Brilliantine; Eyelash and Eyebrow Pomade, Liquid Astringent, Acne Lotion, Muscle Oil, Face Powders, Toilet Water,

Sachets, Perfumes, Antiseptic Mouth Wash and Antiseptic Skin Wash, Cream Used to Keep the Skin Soft and Supple, Liquid Bath Preparation, Lipsticks, Rouges, Bath Salts, Facial Masque, Face and Body Lotion, After-Shaving Lotion, After-Bath Lotion, Astringent; Turtle Oil, Yeast Cream, Strawberry Cleansing Cream, Cucumber Cleansing Cream, Deodorant Cream, and Shampoo.
Claims use since November, 1930.

Ser. No. 343,485. BETTER DRUG PRODUCTS INC., Tulsa, Okla. Filed Nov. 9, 1933.

San-O-Safe

The word "Safe" is disclaimed apart from the mark as shown.
For Douche Powder.
Claims use since April, 1933.

Ser. No. 343,486. VICTOR A. NEWCOMER, Lincoln, Nebr. Filed Nov. 9, 1933.



For Mouth Wash and General Antiseptic.
Claims use since Sept. 1, 1933.

Ser. No. 343,745. SAFAN LABORATORIES, INC., New York, N. Y. Filed Nov. 16, 1933.

ABIDOL

For Medicinal Preparation for the Relief of Pain.
Claims use since Aug. 1, 1933.

Ser. No. 343,904. ANTHONY ESPOSITO, doing business as The Five Star Javelle Water Company, Philadelphia, Pa. Filed Nov. 21, 1933.

FIVE STAR
★★★★★
JAVELLE WATER

The words "Javelle Water" are disclaimed apart from the mark as shown.
For Javelle Water.
Claims use since Feb. 27, 1933.

Ser. No. 344,092. C. H. HOOD & CO., INC., New York, N. Y. Filed Nov. 24, 1933.

Hood-Lax

For Bulk Laxative Consisting of Seeds and Other Natural Products Calculated to Achieve Relief from Constipation by Bulk Consumed with Food.
Claims use since Nov. 17, 1933.

Ser. No. 344,123. THE VIRDOL COMPANY, Birmingham, Ala. Filed Nov. 24, 1933.

VIRDOL

For Liniment to be Used Externally Which is Also Recommended for Eczema and Athlete's Foot.
Claims use since Mar. 1, 1932.

Ser. No. 344,169. TAKARA LABORATORIES, Portland, Oreg. Filed Nov. 25, 1933.



The picture of the girl is fanciful. The drawing is lined for green; the unshaded portion indicating white.
For Antiseptic Vaginal Suppositories, Hygienic Powder, Gargle, and Foot Wash.
Claims use since Feb. 17, 1933.

Ser. No. 344,239. THOROUGHBRED REMEDY COMPANY, Elmont, Long Island, N. Y. Filed Nov. 28, 1933.

PENTROLIN

For Liniment for Man or Beast.
Claims use since Mar. 7, 1933.

Ser. No. 344,523. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed Dec. 6, 1933.

ALCOTONE

For Solvent Mixtures Comprising Acetone and Ethyl Alcohol.
Claims use since July 7, 1933.

Ser. No. 344,620. JESS NACH, Newark, N. J. Filed Dec. 8, 1933.



For Cosmetics—i. e., Face Powder, Rouge, Lipstick, Face Cream, Bath Salts, Hand Lotion and Hair Wash.
Claims use since February, 1933.

Ser. No. 344,893. ROY E. DODGE, doing business as Dale Drug Products, Chicago, Ill. Filed Dec. 13, 1933.

Myrome

For Headache Tablets.
Claims use since Sept. 8, 1933.

Ser. No. 344,915. MOTOR SEAL CORPORATION, Denver, Colo. Filed Dec. 13, 1933.

MOTORSEAL

For Filler or Sealing Compound to be Used Between the Valves and Valve Seats and the Cylinder Walls and Pistons of Internal Combustion Engines.
Claims use since July 12, 1933.

Ser. No. 344,942. PAAS DYE COMPANY, Newark, N. J. Filed Dec. 14, 1933.

PAAS-TELS

For Dyes.
Claims use since Dec. 11, 1933.

Ser. No. 344,943. PAAS DYE COMPANY, Newark, N. J. Filed Dec. 14, 1933.

PETER RABBIT

For Dyes.
Claims use since Dec. 11, 1933.

Ser. No. 345,005. RAY C. BERRY, doing business as Corrective Foods, Chicago, Ill. Filed Dec. 16, 1933.

ANAREN

For Dietary Aid and Supplement in Conditions of Vitamin and Mineral Deficiency.
Claims use since Oct. 3, 1933.

Ser. No. 345,019. W. GLENDENNING AND SONS, LIMITED, Newcastle-on-Tyne, England. Filed Dec. 16, 1933.

BEEVINALT

For Medicated Wines.
Claims use since 1908.

Ser. No. 345,042. KAMULIN DRUG COMPANY, New York, N. Y. Filed Dec. 14, 1933.

KĀ-MŪ-LIN

For Medicine for Alcoholic Gastritis, Chronic Indigestion, Ulcerated Stomach, Fermentation (Gas), Hyperacidity, Catarrh of the Stomach and Heartburn.
Claims use since Oct. 15, 1933.

Ser. No. 345,106. HARTWIG KANTOROWICZ AKTIENGESELLSCHAFT, Berlin-Charlottenburg, Germany. Filed Dec. 19, 1933.



All wording on the drawing with the exception of "Litthauer" is disclaimed apart from the mark as shown.
For Stomach Bitters.
Claims use since 1894.

Ser. No. 345,368. MAISON ANDRE, INC., Baltimore, Md. Filed Dec. 28, 1933.

maison André
INCORPORATED

For Cleansing Creams, Cold Creams, Hand Creams, Foundation Creams, Tissue Creams, Pore Creams, Creams for Treating the Wrinkles Around the Eyes, and Creams for Softening of the Skin; Talcum Powders, Dusting Powders, and Powders for Soothing of the Skin: Lipsticks, Rouges, Eye Shadows, Mascara, Astringents, Muscle Oils, Toilet Waters, and Hair Tonics; Perfumes, and Face Powders.
Claims use since July 10, 1933.

Ser. No. 345,381. THE DRUG PRODUCTS CO. INC., Long Island City, N. Y. Filed Dec. 27, 1933.

Ca-Malacol

For Colloidal Calcium Malate Preparation Put up in Ampul Form.
Claims use since May 15, 1933.

Ser. No. 345,405. MARTIN H. SMITH CO., New York, N. Y. Filed Dec. 27, 1933.

MHS

For Preparation for the Treatment of Coughs, Colds, and Other Respiratory Affections, and for a Preparation for the Treatment of Amenorrhea, Dysmenorrhea, Menorrhagia, Menopause and Other Menstrual Disorders.
Claims use since Nov. 4, 1933, on preparation for the treatment of coughs, colds, and other respiratory affections, and since May, 1913, on preparation for the treatment of Amenorrhea, Dysmenorrhea, Menorrhagia, Menopause, and other menstrual disorders.

Ser. No. 345,452. BEAUTY UTILITIES, INC., Newark, N. J. Filed Dec. 29, 1933.



For Permanent Waving Lotion.
Claims use since Sept. 20, 1933.

Ser. No. 345,453. BEAUTY UTILITIES, INC., Dover, Del., and Newark, N. J. Filed Dec. 29, 1933.

ARIEL

For Permanent Waving Lotion.
Claims use since Sept. 20, 1933.

Ser. No. 345,471. I'NEA PRODUCTS CO., Camden, N. J. Filed Dec. 29, 1933.

I-NEA

For Medicinal Preparation in Granular Form to be Added to Water to Provide a Bath for the Treatment of Tinea, Sore, Tired, Aching, and Sweaty Feet.
Claims use since Apr. 20, 1933.

Ser. No. 345,839. WILLIAM L. SCHULTZ, New York, N. Y. Filed Jan. 9, 1934.

Alice in Wonderland

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Rouges, Liquid Rouges, Face Bleaches, Face Packs; Skin Whitener in Liquid, Cream, or Solid Form; Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Nov. 10, 1933.

Ser. No. 345,934. GEORGE A. BREON & COMPANY, INCORPORATED, Kansas City, Mo. Filed Jan. 12, 1934.

Cincosal

For Therapeutic Products for Injection, Primarily in the Treatment of Rheumatism.
Claims use since May 16, 1927.

Ser. No. 346,282. VICK CHEMICAL COMPANY, Philadelphia, Pa. Filed Jan. 20, 1934.

VA-TRO-NOL

For Medicinal Preparation Used in the Treatment or Prevention of Colds and Affections of the Throat and Nasal Passages.
Claims use since Dec. 19, 1933.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 346,195. HERCULES POWDER COMPANY, Wilmington, Del. Filed Jan. 18, 1934.

GELAMITE

For Dynamite.
Claims use since October 1929.

CLASS 12

Construction Materials

Ser. No. 345,753. THE DACAR PRODUCTS COMPANY, Canton, Ohio. Filed Jan. 8, 1934.

"FORT-O-BRICK"

For Refractory Material in Plastic Form for Relining and Repairing Furnace Walls.
Claims use since Nov. 1, 1933.

Ser. No. 346,009. PEN-CHLOR, INC., Philadelphia, Pa. Filed Jan. 13, 1934.

Penchlor

For Self-Hardening, Acid-Proof Construction Cements.
Claims use since Dec. 26, 1933.

Ser. No. 346,025. STAR ROOF CORPORATION, South Gate, Calif. Filed Jan. 13, 1934.



CASCADE

For Roll Roofing and Roofing Shingles.
Claims use since Jan. 1, 1931.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 339,441. ESTEN U. ROLAND, doing business as R & R Manufacturing Company, Shiloh, Ohio. Filed July 1, 1933.

***The* CHEF**

For Base Metal Cooking Hollow Ware.
Claims use since June 13, 1933.

Ser. No. 341,747. THE VOLLRATH CO., Sheyboygan, Wis. Filed Sept. 20, 1933.



For Porcelain Enameled Sheet Metal Culinary Utensils—Namely, Wash Basins, Vegetable and Meat Boilers; Coffee Pots, Bowls, Colanders, Cups, Saucers, Plates, Platters, Covers, Dippers, Refrigerator Dishes, Funnels, Tea Kettles, Kettles, Ladles, Ring Molds, Mugs, Bain Marie Pans, Bake Pans, Dish Pans, Fry Pans, Sauce Pans, Percolators, Pitchers, Drip Coffee Pots, Tea Pots, Sink Strainers, Tea Strainers, Trays, and Tumblers; for Stainless Steel Culinary Utensils—Namely, Bowls, Double Boilers, Covers, Ladles, Bake Pans, Pots, and Trays; and for Cast Iron Culinary Utensils—Namely, Bakers, Griddles, Kettles, Skillets, and Spiders.
Claims use since June 29, 1933.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 336,075. CERRO DE PASCO COPPER CORPORATION, New York, N. Y. Filed Mar. 25, 1933.

CERROBASE

For Metal Alloys Composed Principally of Bismuth and Lead.
Claims use since Dec. 3, 1932.

Ser. No. 336,076. CERRO DE PASCO COPPER CORPORATION, New York, N. Y. Filed Mar. 25, 1933.

CERROBEND

For Metal Alloys Composed Principally of Bismuth and Lead.
Claims use since Dec. 6, 1932.

Ser. No. 336,077. CERRO DE PASCO COPPER CORPORATION, New York, N. Y. Filed Mar. 25, 1933.

CERROMATRIX

For Metal Alloys Composed Principally of Bismuth and Lead.
Claims use since Dec. 29, 1932.

Ser. No. 340,461. AMERICAN SMELTING AND REFINING COMPANY, New York, N. Y. Filed Aug. 7, 1933.

BHC

For Copper.
Claims use since Mar. 1, 1933.

Ser. No. 345,195. BELLE CITY MALLEABLE IRON COMPANY, Racine, Wis. Filed Dec. 21, 1933.

Belectric

For Iron and Iron Alloys and Castings Made Therefrom.
Claims use since Oct. 15, 1933.

CLASS 15

Oils and Greases

Ser. No. 339,799. TIONA PETROLEUM COMPANY, Philadelphia, Pa. Filed July 15, 1933.

VISCOLOID

For Highly Filtered Pure Pennsylvania Heavy Lubricating Oil Stock and Lubricating Oil Comprising Said Stock Thinned Down to Different Consistencies.
Claims use since Nov. 1, 1932.

Ser. No. 344,297. WALLACE J. STADLMAN, doing business as Dal-Worth Oil Products Company, Dallas, Tex. Filed Nov. 29, 1933.

RAMCO

For Lubricating Oils and Upper Cylinder Lubricants.
Claims use since Nov. 15, 1933.

Ser. No. 346,026. THE TEXAS COMPANY, New York, N. Y. Filed Jan. 13, 1934.

TEXMILL

For Lubricating Grease.
Claims use since Dec. 23, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 337,293. FEDERAL RESEARCH CORPORATION, Woodland, Ill. Filed Apr. 29, 1933.

SUD'N-SHEEN

The descriptive word "Sheen" is disclaimed apart from the mark shown.
For Waxes Suitable for Floors, Furniture, and Related Uses.
Claims use since Apr. 20, 1933.

Ser. No. 345,027. C. M. KIMBALL CO., Everett, Mass. Filed Dec. 16, 1933.

RED CAP

For Automobile Polish.
Claims use since June 12, 1933.

Ser. No. 345,784. THE TROPICAL PAINT AND OIL COMPANY, Cleveland, Ohio. Filed Jan. 6, 1934.

TROPELITE

For Transparent Liquid Coating Compositions in the Nature of Paint.
Claims use since June 17, 1931.

CLASS 17

Tobacco Products

Ser. No. 345,828. THE DRIBEL-WEMMER GILBERT CORP., Detroit, Mich. Filed Jan. 9, 1934.

DONALDA

For Cigars.
Claims use since Jan. 1, 1912.

Ser. No. 346,040. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Jan. 15, 1934.

GOOD NEWS

For Smoking and Chewing Tobacco.
Claims use since 1899.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 341,596. MICHELIN & CIE, Clermont-Ferrand, France. Filed Sept. 15, 1933.

BIBAX

For Members for Connecting Wheels to Their Hubs Particularly Automobile Wheels, and Sleeves Intended to be Mounted in Articulations, Pivot Joints, and the Like Such as Those of Automobile Bodies to Their Springs.
Claims use since Jan. 27, 1933.

Ser. No. 345,159. THE HUFFMAN MANUFACTURING COMPANY, Dayton, Ohio. Filed Dec. 20, 1933.

Dayton

No claim is made to the word "Dayton" apart from the mark as shown. The drawing is lined for blue.
For Bicycles and Parts Therefor.
Claims use since Nov. 25, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 333,984. SOLAR MANUFACTURING CORPORATION, New York, N. Y. Filed Jan. 16, 1933.

SOLAR

For Electrical Apparatus More Particularly for Molded Condensers, Paper-Wound Condensers, Electrolytic Condensers, Both Wet and Dry, Trimmer Condensers, and Resistance Units.
Claims use since February, 1932.

Ser. No. 342,355. INTERNATIONAL RESISTANCE COMPANY, Philadelphia, Pa. Filed Oct. 11, 1933.

IRC

Right to the exclusive use of the Greek capital letter Ω (Omega) apart from the mark as shown is disclaimed.
For Resistors of the Non-Inductive Type Such as Used in Radio Apparatus, for Wire Wound Resistors Such as Used in Radio Apparatus, Grid Leaks for Radio Apparatus and the Like; for Power Wire Wound Resistors.
Claims use since February, 1931.

Ser. No. 343,861. GENERAL HOUSEHOLD UTILITIES COMPANY, Chicago, Ill. Filed Nov. 20, 1933.

Wm. O. Grunow

The trade-mark is a facsimile of the signature of the president of the proprietor.
For Radio Receivers and Parts Thereof, Radio Sound Reproducers and Parts Thereof, and Radio Tubes.
Claims use since Sept. 19, 1933.

Ser. No. 345,171. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Dec. 20, 1933.

Cent-a-pri

The drawing is lined for red, but no claim is made to such color. No claim is made to the representation of the goods apart from the mark as shown.
For Outlet Boxes and Switch Boxes for Electrical Use.
Claims use since Oct. 1, 1933.

Ser. No. 345,591. CORNELL-DUBILIER CORPORATION, New York, N. Y. Filed Jan. 3, 1934.

VEGETOL

For Electrical Condensers.
Claims use since May, 1933.

Ser. No. 345,871. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Jan. 10, 1934.

Cent apri

For Outlet Boxes and Switch Boxes for Electrical Use.
Claims use since Oct. 1, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 340,834. GOLF BALL, INC., Chicago, Ill. Filed Aug. 19, 1933.

AIRMASTER

For Golf Balls.
Claims use since May, 1933.

Ser. No. 345,416. JAMES DE HART, doing business as James De Hart, Winston-Salem, N. C. Filed Dec. 28, 1933.

MONDAY MORNING COACH

For Football Game Played with Cards, Pieces, and the Representation of a Field.
Claims use since Dec. 23, 1933.

Ser. No. 345,680. FRANK PASSARELLI, Mizpah, N. J. Filed Jan. 5, 1934.

PIXY

For Dolls.
Claims use since Feb. 1, 1933.

Ser. No. 346,253. ROCK-OLA MANUFACTURING CORPORATION, Chicago, Ill. Filed Jan. 19, 1934.

CROSS-WORD

For Coin-Controlled, Ball-Projecting Amusement Device.
Claims use since Nov. 15, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 341,693. PERRY MANUFACTURING COMPANY, INC., New York, N. Y. Filed Sept. 19, 1933.

ROTO-GATE

The word "Gate" is disclaimed excepting its use in connection with the word "Roto" as herein shown.
For Turnstiles and Like Passage-Controlling Gates of the Rotary Type.
Claims use since May 24, 1932.

Ser. No. 343,113. NICHOLAS P. COURTNEY, doing business as The Lev-A-Lift Co., New York, N. Y. Filed Nov. 1, 1933.

LEV-A-LIFT

For Device for Opening Cans or Like Receptacles.
Claims use since Aug. 7, 1933.

Ser. No. 343,481. UTILITY BLADE CORPORATION, Maplewood, N. J. Filed Nov. 9, 1933.



The lining shown in the drawing is used for the purpose of indicating shading only.
For Safety Razors and Safety Razor Blades.
Claims use since June 6, 1933.

Ser. No. 344,879. ARDELL RAZOR BLADE CORPORATION, New York, N. Y. Filed Dec. 13, 1933.

Ton-ior

For Razor Blades and Razors.
Claims use since Nov. 20, 1933.

CLASS 24

Laundry Appliances and Machines

Ser. No. 345,204. H. KOHNSTAMM & CO., INC., New York, N. Y. Filed Dec. 21, 1933.

CUSHION FLEX

No claim is made to the registration of the word "Cushion" apart from the mark shown.
For Metal Spring Pads Used for Laundry Purposes.
Claims use since July 13, 1931.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 322,854. METERICE OF AMERICA CO., LTD., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware. Filed Jan. 9, 1932.

METER-RANGE

No claim is made for the word "Range" apart from the mark shown.
For Automatic Coin Controlled Tim Registering Electric Switches.
Claims use since Dec. 30, 1931.

Ser. No. 322,855. METERICE OF AMERICA CO., LTD., Los Angeles, Calif., assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 9, 1932.

METER-STOVE

No claim is made for the word "Stove" apart from the mark shown.
For Automatic Coin Controlled Time Registering Electric Switches.
Claims use since Dec. 30, 1931.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 345,412. COHN & ROSENBERGER, INC., New York, N. Y. Filed Dec. 28, 1933.

ALICE-IN-WONDERLAND

For Strings of Pearls, Necklaces, Bracelets, Earrings, Finger, Rings, Brooches, Bar Pins, and Ornamental Hatpins; and Pins for Dress Ornaments, Ornamental Pins and Buckles for Decorating Hats, and Ornamental Shoe Buckles, Made Wholly or in Part of or Plated with Precious Metal.
Claims use since Dec. 15, 1933.

Ser. No. 345,504. HARVEY & OTIS, Providence, R. I. Filed Dec. 30, 1933.



For Jewelry for Personal Wear or Adornment, Not Including Watches.
Claims use since June, 1904.

Ser. No. 346,140. THE WHITEHEAD & HOAG COMPANY, Newark, N. J. Filed Jan. 16, 1934.



For Jewelry for Personal Wear, Not Including Watches.
Claims use since December 1923.

CLASS 32

Furniture and Upholstery

Ser. No. 341,348. STIX, BAER AND FULLER COMPANY, St. Louis, Mo. Filed Sept. 5, 1933.



For Davenports, Sofas; Pull-Up, Occasional Lounge, Arm, and Side Chairs; Chests, Tables, Wall-Racks, Benches, Desks and Secretaries, Cabinets, Book Cases, Mirrors, Buffets, Sideboards, Ferneries, Beds, Dressers, Dressing Tables, Chaise Lounges, Commodes, Chevals, Plant Stands, Settees, Stools, Card Tables, and Porch and Lawn Furniture, the Latter Consisting of Chairs, Rockers, Benches, Settees, and Tables.
Claims use since Aug. 1, 1933.

Ser. No. 344,234. PHENIX FURNITURE COMPANY, Warren, Pa. Filed Nov. 28, 1933.



For Chests of Drawers.
Claims use since Aug. 15, 1932.

Ser. No. 344,618. THE CHAMPION SPRING COMPANY, Cleveland, Ohio. Filed Dec. 7, 1933.

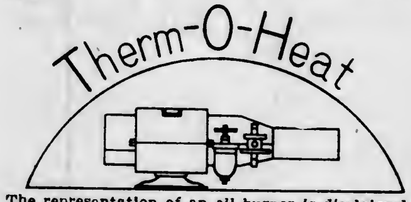
REAL-REST

For Bed Springs
Claims use since Jan. 14, 1929.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 323,368. MARTIN L. RICHTER, doing business as Therm-O-Heat Mfg. Co., Seattle, Wash. Filed Jan. 23, 1932.



The representation of an oil burner is disclaimed apart from the trade-mark shown.
For Oil Burners.
Claims use since Jan. 5, 1932.

Ser. No. 340,853. WHITEHEAD METAL PRODUCTS COMPANY OF NEW YORK, INC., New York, N. Y. Filed Aug. 19, 1933.



For Hot Water Tanks and Gas Automatic Hot Water Storage Systems.
Claims use since Apr. 6, 1931.

CLASS 37

Paper and Stationery

Ser. No. 345,664. GENERAL PAPER COMPANY, San Francisco, Calif. Filed Jan. 5, 1934.

Bay Bridge

For Bond and Writing Paper.
Claims use since May 15, 1933.

Ser. No. 345,803. BYRON WESTON COMPANY, Dalton, Mass. Filed Jan. 8, 1934.



BLACKSTONE

No claim is made to the geographical name "Blackstone" apart from the mark shown.
For Ledger and Bond Paper.
Claims use since Dec. 1, 1923.

CLASS 38

Prints and Publications

Ser. No. 340,766. BERTH ROBERT-GROSS, INC., New York, N. Y. Filed Aug. 17, 1933.

Mary Abbott

The trade-mark consists of the nom de plume of Rosemary Gross in whose handwriting the name is displayed.
For Magazine Articles Published from Time to Time.
Claims use since 1926.

Ser. No. 345,140. PAUL F. MCCARTHY, Paterson, N. J., and New York, N. Y. Filed Dec. 19, 1933.

A REVIEW OF THE MARKET'S NEWEST PRODUCTIONS
FRONT LINES

For Periodical Publication.
Claims use since Aug. 1, 1933.

Ser. No. 345,234. ATLAS PUBLISHING COMPANY, New York, N. Y. Filed Dec. 22, 1933.

AMERICAN WINE and LIQUOR JOURNAL

The drawing is lined for red.
For Periodical.
Claims use since Oct. 15, 1933.

Ser. No. 346,048. ESTHER LA ROSE HARRIS, Atlanta, Ga. Filed Jan. 15, 1934.

Uncle Remus

For Books.
Claims use since Jan. 2, 1934.

CLASS 39

Clothing

Ser. No. 342,494. SILVER DRESSES, INC., New York, N. Y. Filed Oct. 14, 1933.



GLADYS PARKER

The picture is a likeness of an individual Gladys Parker.
For Dresses, Suits, Coats, Hats, Caps, Berets, Bonnets, Underwear, Bathing Suits, Stockings, Gloves of Fabric or Leather, Corsets, Brassières, and Girdles for Women and Misses.
Claims use since Oct. 10, 1933.

Ser. No. 344,838. THE COWARD SHOE INCORPORATED, New York, N. Y. Filed Dec. 12, 1933.

Vitasox

For Hosiery.
Claims use since Nov. 29, 1933.

Ser. No. 345,314. DAVID S. SICELOFF, doing business as Siceloff Manufacturing Company, Lexington, N. C. Filed Dec. 23, 1933.



Applicant disclaims the right to the exclusive use of the word "Brand" except in association with the other features of the mark.
For Overalls, Work Shirts, and Work Pants.
Claims use since Dec. 20, 1933.

Ser. No. 345,439. VANITY FAIR SILK MILLS, Reading, Pa. Filed Dec. 28, 1933.

HALF-A-SLIP

For a Garment for Women Consisting of a Petticoat with a Pleated Flounce.
Claims use since Oct. 27, 1933.

Ser. No. 345,605. MAY HOSIERY MILLS, Nashville, Tenn. Filed Jan. 3, 1934.

SILLY SYMPHONY SOCKS

No claim is made to the exclusive use of the word "Socks" aside from the mark as shown.
For Children's Hosiery.
Claims use since Nov. 5, 1933.

Ser. No. 345,775. B. KUPPENHEIMER & CO., INC., Chicago, Ill. Filed Jan. 8, 1934.



The trade-mark consists of the word "Woodland" in green letters upon a black background and the word "Weave" being disclaimed as constituting a part of the trade-mark.
For Men's and Boys' Ready-to-Wear Coats, Vests, Trousers, and Overcoats.
Claims use since Oct. 15, 1933.

Ser. No. 345,867. I. C. ISAACS & COMPANY, Baltimore, Md. Filed Jan. 10, 1934.



The descriptive term "Sport Togs" is disclaimed apart from the mark as shown.
For Riding Breeches, Jodhpurs, and Riding Coats and Vests for Men, Women, and Children.
Claims use since Jan. 1, 1933.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 306,481. AMERICAN BRASS & STEEL PRODUCTS CO., New York, N. Y. Filed Oct. 7, 1930.



For Buttons, Rivets, Eyelets, Snap Fasteners, Buckles, Clasps, and Ornaments, All of Base Metal and All for Use on Wearing Apparel.
Claims use since Apr. 1, 1929.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 344,592. WILLIAM HELLER, INC., New York, N. Y. Filed Dec. 7, 1933.

AQUADUL

For Knitted and Textile Fabrics in the Piece Made of Silk, Cotton, Rayon, Wool, and Artificial Yarns and Mixtures Thereof.
Claims use since Nov. 24, 1933.

Ser. No. 344,916. NASHUA MANUFACTURING COMPANY, Nashua, N. H. Filed Dec. 18, 1933.

Nashua Nineties

For All-Cotton, Cotton and Wool, Silk and Wool, and All-Wool Blankets.
Claims use since Dec. 8, 1933.

CLASS 43

Thread and Yarn

Ser. No. 344,409. PIEDMONT COTTON MILLS, Atlanta, Ga. Filed Dec. 2, 1933.

Colonial Bed Spread

The words "Bed Spread" are hereby disclaimed apart from the words as shown in the drawing.
For Crochet Yarn.
Claims use since December, 1929.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 340,097. X-OTIC, INCORPORATED, New York, N. Y. Filed July 25, 1933.

InvisaBelt

No claim is made to the word "Belt" apart from the mark as shown.
For Sanitary Belts.
Claims use since June 1, 1933.

Ser. No. 344,701. CELLUFOAM CORPORATION, Chicago, Ill. Filed Dec. 9, 1933.

CELLUFOAM

For Distended Fibrous Products—Namely, Sanitary Napkins.
Claims use since Jan. 1, 1932.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 326,464. FRANK W. EPPERSON, Oakland, Calif. Filed Apr. 25, 1932.

EVERYBODY LIKES POPCUBE "The Drinkin a Cube" PURE! REFRESHING!

All portions of the mark except the word "Popcube" are disclaimed apart from the mark shown.
For Nonalcoholic, Maltless Powder for Making Soft Drinks.
Claims use since July, 1923.

Ser. No. 332,291. CANADA DRY GINGER ALE, INCORPORATED, New York, N. Y. Filed Nov. 19, 1932.



Applicant's mark consists of the distinctive combination of elements which include a silver-colored label on

which appears the outline of a cut gem printed in blue and forming a border for a silver-colored sunburst bearing the words "Sparkling Water" printed in blue, together with the words "Canada Dry's" above the gem and certain printed matter distinctively arranged accompanied with the name "Canada Dry Ginger Ale, Incorporated, N. Y." below the gem, a silver-colored cap sheath, a cap having displayed thereon a silver colored shield surmounted with a crown and bearing, printed in blue, the words "Canada Dry Sparkling Water". No claim is made to the representation of a bottle, a label per se, the sheath, the cap, or any wording except "Canada Dry's" and "Canada Dry Ginger Ale, Incorporated".

For Carbonated Water.

Claims use since June 15, 1932.

Ser. No. 342,214. BENEGAS HNOS & CIA LDA. SOCIEDAD ANONINA INDUSTRIAL, Buenos Aires, Argentina. Filed Oct. 7, 1933.

Trapiche

For Grape Juices.

Claims use since Jan. 1, 1889.

Ser. No. 345,627. J. S. ISRALY—J. ISRALY, Des Moines, Iowa. Filed Jan. 4, 1934.

RYMIXT

THE MIXER FOR ALL OCCASIONS

No claim is made to the words, "The Mixer for All Occasions" apart from the mark shown.

For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup and Extract for Making the Same.

Claims use since Aug. 21, 1933.

Ser. No. 345,876. PALO PRODUCTS COMPANY, Boston, Mass. Filed Jan. 10, 1934.

DEW-DIPT

For Plain and Carbonated Grapefruit Juice, Plain and Carbonated Pineapple Juice, and Plain and Carbonated Orange Juice.

Claims use since Dec. 1, 1933.

Ser. No. 345,877. PALO PRODUCTS COMPANY, Boston, Mass. Filed Jan. 10, 1934.

KAY-DEE

For Plain and Carbonated Grapefruit Juice, Plain and Carbonated Pineapple Juice, and Plain and Carbonated Orange Juice.

Claims use since Dec. 1, 1933.

Ser. No. 345,988. HIRAM WALKER & SONS, INC., Peoria, Ill. Filed Jan. 12, 1934.

RASPBERINE

For Nonalcoholic, Noncereal, Maltless Beverages.

Claims use since Dec. 5, 1933.

Ser. No. 346,236. T. K. COOK, Cleveland, Ohio. Filed Jan. 19, 1934.

Skoal

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Syrups and Extracts for Making the Same.

Claims use since Jan. 17, 1934.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 332,554. WELTON STALLSMITH, Los Angeles, Calif. Filed Nov. 28, 1932.

VEGETAB

For Finely Powdered Desicated Vegetables Compressed Into Tablet Form.

Claims use since Aug. 19, 1931.

Ser. No. 333,066. THE GOUDEY GUM CO., Boston, Mass. Filed Dec. 14, 1932.

INDIAN

For Chewing Gum.

Claims use since Nov. 21, 1932.

Ser. No. 340,998. VINCENNES PACKING CORPORATION, Vincennes, Ind. Filed Aug. 24, 1933.



For Canned or Bottled Tomato Juice, Tomatoes, Tomato Juice Cocktail, Tomato Puree, Tomato Catsup, Tomato Paste, Tomato Sauce, Pork and Beans; Canned Vegetables Including Red Beans, Red Kidney Beans, Kidney Beans, Wax Beans, Green Beans, Hominy, Sauerkraut, Pumpkin, Corn; and Soups, Spaghetti, and Chile Con Carne.

Claims use since Feb. 1, 1931.

Ser. No. 341,242. AURTHUR GUSTIN DANOVE, Hammond, La. Filed Sept. 1, 1933. Under 10-year proviso.

CREOLE PREPARED MUSTARD

For a Food Seasoning Preparation of Mustard and Pepper.

Claims use since 1864.

Ser. No. 341,770. M. J. B. Co., San Francisco, Calif. Filed Sept. 21, 1933.



No claim is made to the words "Quality Coffee of America" apart from the mark as shown.

For Coffee.

Claims use since July 1, 1933.

Ser. No. 343,629. J. HUNGERFORD SMITH CO., Rochester, N. Y. Filed Nov. 13, 1933.

ENERJOY

For Chocolate Malted Syrup Intended to Be Used as the Basic Flavor for Malted Milks.

Claims use since Nov. 9, 1933.

Ser. No. 343,662. RATLIFF PURE FOOD PRODUCTS CO., doing business as Texas Rio Rita Canning Co., Fort Worth, Tex. Filed Nov. 14, 1933.



For Canned Goods—Namely, Chile Con Carne, Vienna Style Sausage, and Tamales.

Claims use since Dec. 29, 1930.

Ser. No. 343,835. MERCK & CO., INC., Rahway, N. J. Filed Nov. 18, 1933.

BANALAC

For Preparation in Powdered Form for Making a Food Beverage.

Claims use since Sept. 22, 1933.

Ser. No. 344,065. JAMES A. SMITH, New York, N. Y. Filed Nov. 23, 1933.

CARSPIN

For Vegetables—Namely, Spinach, Carrots; Fruits—Namely, Oranges, Lemons, and Grapefruit.

Claims use since Nov. 20, 1933.

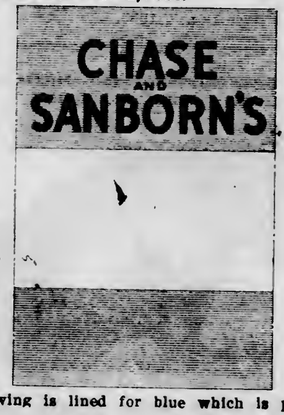
Ser. No. 344,950. SPYER BROTHERS, Amsterdam, Netherlands. Filed Dec. 14, 1933.

APTITO

For Canned Fruits, Canned Vegetables, and Pickles (Gherkins).

Claims use since Aug. 1, 1932.

Ser. No. 345,227. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Dec. 21, 1933.

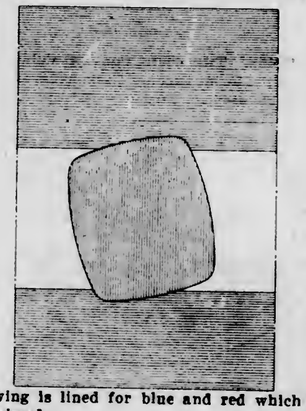


The drawing is lined for blue which is particularly claimed.

For Coffee and Tea.

Claims use since Dec. 28, 1929.

Ser. No. 345,228. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Dec. 21, 1933.



The drawing is lined for blue and red which are particularly claimed.

For Coffee and Tea.

Claims use since Feb. 1, 1932.

Ser. No. 345,335. FREEMAN LABORATORIES, INC., Detroit, Mich. Filed Dec. 26, 1933.

Countess Olga



The portrait is fanciful.
For Herb Tea.
Claims use since Dec. 2, 1933.

Ser. No. 345,389. INTERNATIONAL MILLING COMPANY, Minneapolis, Minn. Filed Dec. 27, 1933.



HIPPO

The lining on the drawing indicates shading.
For Wheat Flour.
Claims use since Nov. 23, 1932.

Ser. No. 345,458. THEODOSIO COLAVIT, doing business as The Colavit's Food Products Company, Perkasie, Pa. Filed Dec. 29, 1933.



The words "Spicy Butter" are disclaimed apart from the mark as shown. The picture of the boy is fanciful.
For Butter.
Claims use since Dec. 5, 1933.

Ser. No. 345,542. CHERRY GROWERS PACKING COMPANY, Traverse City, Mich. Filed Jan. 2, 1934.

CHERIPAC

For Canned Cherries.
Claims use since Dec. 22, 1933.

Ser. No. 345,618. AMERICAN CONE & PRETZEL COMPANY, Philadelphia, Pa. Filed Jan. 4, 1934.

SILVER MAID

For Pretzels.
Claims use since Nov. 28, 1933.

Ser. No. 345,764. THE GOUDEY GUM COMPANY, Allston Station, Boston, Mass. Filed Jan. 8, 1934.

SPORT KINGS

For Chewing Gum.
Claims use since Dec. 9, 1933.

Ser. No. 345,914. MINNESOTA MACARONI COMPANY, St. Paul, Minn. Filed Jan. 11, 1934.



For Alimentary Pastes Including Macaroni, Spaghetti, and Egg Noodles.
Claims use since Apr. 1, 1931.

Ser. No. 346,320. POINT LOMA TUNA PACKERS, INC., San Diego, Calif. Filed Jan. 20, 1934.

SEA TREAT

For Canned Fish.
Claims use since Aug. 9, 1933.

CLASS 47

Wines

Ser. No. 345,264. ARTHUR LESSER, New York, N. Y., and Paris, France. Filed Dec. 22, 1933.



No claim is made to the exclusive use of the outline of the label or to the words "Champagne", "Reims", "Rilly", and "France" apart from the mark as shown. The drawing is lined to indicate the color gold.
For Champagne.
Claims use since 1876.

CLASS 48

Malt Beverages and Liquors

Ser. No. 342,680. WAGNER BREWING COMPANY, Granite City, Ill. Filed Oct. 19, 1933.



The drawing is lined for red and blue.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Dec. 1, 1905.

Ser. No. 342,830. THE CANTON BREWING COMPANY, Canton, Ohio. Filed Oct. 21, 1933.

TOPAZ

For Beer.
Claims use since Oct. 7, 1933.

Ser. No. 343,655. INTERBORO BEVERAGE CORPORATION, Brooklyn, N. Y. Filed Nov. 14, 1933.

POLO BEER

No claim is made to the word "Beer".
For Beer and Ale.
Claims use since September, 1933.

Ser. No. 344,132. BLOOMER BEVERAGE COMPANY, Bloomer, Wis. Filed Nov. 25, 1933.



No claim is made to the words "Brewed in Bloomer" and "Beer" apart from the other features of the mark. The drawing is lined for blue.
For Keg and Bottled Beer.
Claims use since Oct. 13, 1933.

Ser. No. 344,438. ORANGE COUNTY BREWERY, INC., Middletown, N. Y. Filed Dec. 4, 1933.

EBERT'S GOLDENFOAM

For Beer and Other Malt Beverages.
Claims use since Nov. 25, 1933.

Ser. No. 345,156. THE HAMILTON BREWING COMPANY, Hamilton, Ohio. Filed Dec. 20, 1933.

Old Hollander

For Beer.
Claims use since Dec. 8, 1933.

Ser. No. 345,652. GEO. WALTER BREWING CO., Appleton, Wis. Filed Jan. 3, 1934.

Adler-Bräu

No claim is made to the word "Bräu" apart from the mark shown.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Mar. 16, 1908.

Ser. No. 345,836. NORTH AMERICAN BREWING COMPANY, Brooklyn, N. Y. Filed Jan. 9, 1934.

Paramount
Super Ale

No claim is made to the word "Ale" apart from the mark as shown.
For Beer.
Claims use since Dec. 6, 1933.

Ser. No. 345,837. NORTH AMERICAN BREWING COMPANY, Brooklyn, N. Y. Filed Jan. 9, 1934.



No claim is made to the word "Beer" apart from the mark as shown. The lines in the drawing indicate shading only.
For Beer.
Claims use since Dec. 6, 1933.

Ser. No. 346,080. GUY E. RIEGEL, Spokane, Wash. Filed Jan. 15, 1934.

Coberger

For Beer with Not More Than the Legal Alcoholic Content.
Claims use since Apr. 7, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 340,996. J. STONEHILL & COMPANY, LIMITED, doing business as Stuart Scott & Co., London, England. Filed Aug. 24, 1933.





No claim is made to the words "Old Highland Liqueur" and "Produce of Scotland."
For Whisky.
Claims use since Sept. 30, 1925.

Ser. No. 341,474. ARTHUR BOOTH & CO., LTD., Glasgow, Scotland. Filed Sept. 11, 1933.

AB

ARTHUR BOOTH LIMITED

For Whisky.
Claims use since 1921.

Ser. No. 342,746. ETABLISSEMENTS E. BIGEON INC., New York, N. Y. Filed Oct. 21, 1933.

MARCELLE

For Whiskey, Brandy, and Cognac.
Claims use since Sept. 28, 1933.

Ser. No. 342,749. ETABLISSEMENTS E. BIGEON INC., New York, N. Y. Filed Oct. 21, 1933.

SCOTCH LADDIE

For Whiskey.
Claims use since Sept. 28, 1933.

Ser. No. 343,406. NAAMLOOZE VENNOOTSCHAP DISTILLEERDERIJ C. MEYER & Co., Schiedam, Netherlands. Filed Nov. 8, 1933. Under 10-year proviso.





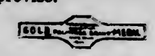






For Gin, Old Gin, Brandy, Cognac, Liquors Such as Whisky, Egg-Punch (Advocaat).
Claims use since 1840.

Ser. No. 343,407. NAAMLOOZE VENNOOTSCHAP DISTILLEERDERIJ C. MEYER & Co., Schiedam, Netherlands. Filed Nov. 8, 1933. Under 10-year proviso.









For Gin, Old Gin, Brandy, Cognac, Liquors Such as Whisky, Egg-Punch (Advocaat).
Claims use since 1840.

Ser. No. 343,664. R. STEVENSON, TAYLOR & COMPANY, LIMITED, Glasgow, Scotland. Filed Nov. 16, 1933. Under 10-year proviso.

R. STEVENSON, TAYLOR & Co. LIMITED

Nonpareil Whisky

GLASGOW



For Whisky.
Claims use since June 27, 1877.

Ser. No. 343,757. W. WHITELEY & Co. LIMITED, Glasgow, Scotland, and London, England. Filed Nov. 16, 1933.



QUEEN OF CLUBS

For Whisky.
Claims use since 1930.

Ser. No. 343,919. BERTIL ERICKSON, doing business as Batavia Products, Inc., Brooklyn, N. Y. Filed Nov. 21, 1933.

GOLDEN KING

For Alcoholic Punches and Other Potable Distilled Liquors.
Claims use since 1914.

Ser. No. 343,979. DOWLING BROTHERS DISTILLING CO., INCORPORATED, Burgin, Ky. Filed Nov. 22, 1933. Under 10-year proviso.

OLD
D. L. MOORE
DISTILLERY

For Whiskey.
Claims use since 1889.

Ser. No. 344,359. LIONELLO STOCK, doing business as Camis & Stock, Trieste, Italy. Filed Dec. 1, 1933.



The words "Cognac Medicinal" are disclaimed apart from the mark as shown.
For Brandy.
Claims use since Nov. 26, 1925.

Ser. No. 344,360. LIONELLO STOCK, doing business as Camis & Stock, Trieste, Italy. Filed Dec. 1, 1933.



The word "Cognac" is disclaimed apart from the mark as shown.
For Brandy.
Claims use since Mar. 7, 1930.

Ser. No. 344,362. LIONELLO STOCK, doing business as Camis & Stock, Trieste, Italy. Filed Dec. 1, 1933.



The word "Brandy" is disclaimed apart from the mark as shown.
For Brandy.
Claims use since Mar. 7, 1930.

Ser. No. 344,384. BULLOCH LADE & COMPANY LIMITED, Glasgow, Scotland. Filed Dec. 2, 1933.

EXTRA SPECIAL
GOLD LABEL
SCOTCH WHISKY
B L
Bulloch, Lade & Co., Ltd.
Distilled from finest materials
Glasgow & London.

No claim is made to the wording on the drawing with the exception of the notations "B L" and "In Defence."
For Scotch Whisky.
Claims use since 1890.

Ser. No. 344,387. JAMES BURROUGH LIMITED, London, England. Filed Dec. 2, 1933.



No claim is made to the words "Brand" and "London."
For Rum, Brandy, Gin, Alcoholic Bitters, and Other Potable Spirits, But Not Including Whisky.
Claims use since 1897.

Ser. No. 344,396. JOHN DUNBAR & CO. LIMITED, London, England. Filed Dec. 2, 1933.



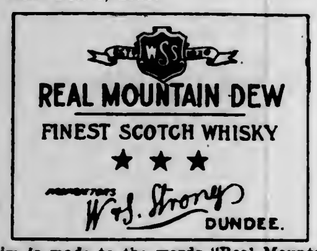
No claim is made to the wording on the drawing with the exception of "John Dunbar & Co., Ltd."
For Scotch Whisky.
Claims use since Feb. 3, 1925.

Ser. No. 344,406. JOSEPH ALLAN TRAIN MACKENZIE, doing business as J. A. T. Mackenzie & Co., London, England, and Glasgow, Scotland. Filed Dec. 2, 1933.

ARGOSY

For Whisky.
Claims use since Aug. 25, 1932.

Ser. No. 344,412. W. & S. STRONG LIMITED, Dundee, Scotland. Filed Dec. 2, 1933.



No claim is made to the words "Real Mountain Dew", "Finest Scotch Whisky", "Proprietors" and "Dundee."
For Scotch Whisky.
Claims use since Dec. 31, 1899.

Ser. No. 344,413. W. & S. STRONG LIMITED, Dundee, Scotland. Filed Dec. 2, 1933.



No claim is made to the words "Old Highland Whisky", "Genuine Highland Whisky", "Proprietors" and "Dundee."
For Scotch Whisky.
Claims use since Dec. 31, 1897.

Ser. No. 344,530. FRANKFORT DISTILLERIES, INCORPORATED, Louisville, Ky. Filed Dec. 6, 1933.



The portrait shown is fanciful.
For Whiskey.
Claims use since 1908.

Ser. No. 344,627. ANDERSON & SHAW, LIMITED, Glasgow, Scotland. Filed Dec. 8, 1933.



No claim is made to the words "Whisky", "Perfection of Old Scotch", and "Glasgow, Scotland".
For Whisky.
Claims use since 1876.

Ser. No. 344,629. BEN-BURK, INC., Boston, Mass. Filed Dec. 8, 1933.

CONNOISSEUR

For Gin, Cordials, and Other Potable Distilled Spirits.
Claims use since Dec. 2, 1933.

Ser. No. 344,665. C. P. MOORMAN & COMPANY, Louisville, Ky. Filed Dec. 8, 1933.



"C. P. Moorman & Company" is in the handwriting of a member of applicant's predecessor firm.
For Whiskey.
Claims use since Aug. 1, 1885.

Ser. No. 344,680. T. D. SHEPHERD & Co., doing business as A. C. Meukow & Co., Cognac, France. Filed Dec. 8, 1933.



No claim is made to the words "Marque Déposée", "Cognac", and "Registered at Stationers Hall".
For Brandy.
Claims use since 1861.

Ser. No. 344,762. CONNECTICUT DISTILLERIES, INC., Nash's Corners, Westport, Conn. Filed Dec. 11, 1933.



No claim is made to the use of the words "Old Fairfield" apart from the mark as shown.
For Brandy.
Claims use since Dec. 9, 1933.

Ser. No. 344,830. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 12, 1933.



The lining in the drawing indicates red and gold.
For Gin.
Claims use since Dec. 6, 1933.

Ser. No. 344,860. MANHATTAN DISTILLERS CORP., New York, N. Y. Filed Dec. 12, 1933.



No claim is made to the exclusive use of the words "Club" and "Manhattan" apart from the mark as shown.
For Gin.
Claims use since Nov. 23, 1933.

Ser. No. 344,967. JAMES CLARK DISTILLING CORPORATION, Jersey City, N. J. Filed Dec. 15, 1933.

Old Sommerset

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 344,995. HIRAM WALKER & SONS, INC., Peoria, Ill. Filed Dec. 15, 1933.

RIDGEWOOD

For Blended Whiskey and/or Other Potable Distilled Spirits.
Claims use since Dec. 5, 1933.

Ser. No. 345,013. FRIEDMAN, KEILER & COMPANY, INCORPORATED, Paducah, Ky. Filed Dec. 16, 1933. Under 10-year proviso.

MOORE AND MOORE

For Whiskies.
Claims use since 1894.

Ser. No. 345,017. FRIEDMAN, KEILER & COMPANY, INCORPORATED, Paducah, Ky. Filed Dec. 16, 1933.

Crescent Club

Applicant disclaims any right to the exclusive use of the word "Club" except in association with the word "Crescent".
For Whiskies.
Claims use since 1890.

Ser. No. 345,092. THE BALTIMORE PURE RYE DISTILLING COMPANY, Dundalk, Md. Filed Dec. 19, 1933.

PIMLICO
Pure RYE *Whiskey*

No claim is made to the words "Pure Rye Whiskey."
For Pure Rye Whiskey.
Claims use since Dec. 8, 1933.

Ser. No. 345,094. C. R. BAXTER & Co. LIMITED, Dundee, Scotland. Filed Dec. 19, 1933.

BAXTER'S
CELEBRATED
BARLEYBREE
SCOTCH WHISKY
DUNDEE

No claim is made to any of the wording on the drawing with the exception of the monogram "C R B".
For Scotch Whisky.
Claims use since June 8, 1883.

Ser. No. 345,104. HARTWIG KANTOROWICZ-C. A. F. KAHLBAUM AKTIENGESELLSCHAFT, Berlin-Charlottenburg, Germany. Filed Dec. 19, 1933.

Blackby

For Alcoholic Cordials and Brandy.
Claims use since 1929.

Ser. No. 345,107. HARTWIG KANTOROWICZ-C. A. F. KAHLBAUM AKTIENGESELLSCHAFT, Berlin-Charlottenburg, Germany. Filed Dec. 19, 1933.

„Podbienta"

For Alcoholic Cordials and Brandy.
Claims use since 1929.

Ser. No. 345,122. READVILLE DISTILLERIES, INC., Readville, Boston, Mass. Filed Dec. 19, 1933.

CLUB ROYAL

For Gin and Other Potable Distilled Spirits.
Claims use since Dec. 8, 1933.

Ser. No. 345,169. ARCHIBALD LAUDER & COMPANY, LIMITED, Glasgow, Scotland. Filed Dec. 20, 1933.

ROYAL NORTHERN CREAM WHISKY

No claim is made for the word "Whisky" apart from the mark as shown.
For Whisky.
Claims use since Oct. 18, 1882.

Ser. No. 345,224. SOCIETE DES PROPRIETAIRES VINICOLES DE COGNAC, J. G. MONNET & Co., Cognac, France. Filed Dec. 21, 1933.

COGNAC MONNET

MONNET

SOCIÉTÉ DES PROPRIÉTAIRES VINICOLES DE COGNAC
J.G. Monnet & C°
COGNAC

All wording except "Monnet" and name of applicant is hereby disclaimed.
For Brandy.
Claims use since Nov. 22, 1897.

Ser. No. 345,225. SOCIETE DES PROPRIETAIRES VINICOLES DE COGNAC, J. G. MONNET & Co., Cognac, France. Filed Dec. 21, 1933.



MONNET

No claim is made to the container nor to the wording except "Monnet", applicant's name, and the letters "J. G. M. & Co."
For Brandy.
Claims use since Nov. 22, 1897.

Ser. No. 345,226. SOCIETE DES VINS ET SPIRITEUX, SOCIETE ANONYME, Bordeaux, France. Filed Dec. 21, 1933.

GOLDEN HEART
EV. VIGNIER & C°
COGNAC

The word "Cognac" is hereby disclaimed.
For Brandy.
Claims use since Jan. 7, 1925.

Ser. No. 345,235. BISCEGLIA BROS., San Jose, Calif. Filed Dec. 22, 1933.

Bisceglia's

The trade-mark is a facsimile of the signature of Pasquale Bisceglia, deceased.
For Whiskies, Alcoholic Cordials, Brandies, Rums, Gins, and Other Potable Distilled Spirits.
Claims use since May 1, 1932.

Ser. No. 345,236. THE BRITISH COLUMBIA DISTILLERY COMPANY LIMITED, Vancouver, British Columbia, Canada. Filed Dec. 22, 1933.

SPEYSIDE

The drawing is lined for shading.
For Whiskey and All Other Distilled Liquors and Blends Thereof.
Claims use since Jan. 1, 1928.

Ser. No. 345,460. COLONIAL DISTILLING & DISTRIBUTING CORPORATION, New York, N. Y. Filed Dec. 29, 1933.

COLONIAL CLUB

No claim is made to the word "Club" apart from the mark shown.
For Whiskey.
Claims use since Dec. 12, 1933.

Ser. No. 345,508. PAEZ PUMAR & COMPANIA, Caracas, Venezuela. Filed Dec. 30, 1933.

RON SAN AGUSTIN CARACAS

The drawing is lined for blue and red. No claim is made to the words "Ron" and "Caracas" apart from the mark shown on the drawing.
For Rum and Other Potable Distilled Liquors.
Claims use since December, 1927.

Ser. No. 345,552. PIERRE LOUIS MORIN, Brionne, France. Filed Jan. 2, 1934.



The wording is disclaimed apart from the words "Bec-Fin" and "Pierre Morin Fils".
For Apple Brandy Known as Calvados.
Claims use since Oct. 22, 1929.

Ser. No. 345,568. STAR DISTRIBUTORS, INC., New York, N. Y. Filed Jan. 2, 1934.



Westchester Club

No claim is made separately to the words "Westchester" and "Club" apart from the mark shown.
For Blended Whiskey.
Claims use since Dec. 22, 1933.

Ser. No. 345,639. SOCIETE ANONYME LES FILS DE P. BARDINET, Cauderan, near Bordeaux, France. Filed Jan. 4, 1934. Under 10-year proviso.

BARDINET

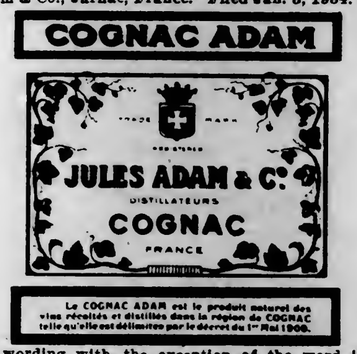
The drawing is lined for red.
For Rum, Alcoholic Cordials and Other Potable Distilled Liquors.
Claims use since Nov. 17, 1894.

Ser. No. 345,640. SOCIETE ANONYME LES FILS DE P. BARDINET, Cauderan, near Bordeaux, France. Filed Jan. 4, 1934.

CURACHYP

For Alcoholic Cordials.
Claims use since June 3, 1927.

Ser. No. 345,668. ALFRED HAAG, doing business as Jules Adam & Co., Jarnac, France. Filed Jan. 5, 1934.



All wording with the exception of the word "Adam" and "Jules Adam & Co." is disclaimed.
For Brandies and Distilled Alcoholic Liquors.
Claims use since Apr. 10, 1929.

Ser. No. 345,739. THE FRANK L. WIGHT DISTILLING COMPANY, Loreley Station, Md. Filed Jan. 6, 1934.

MARYLAND HUNT CUP



For Rye Whiskey and Blended Whiskeys.
Claims use since Jan. 3, 1934.

Ser. No. 345,741. THE FRANK L. WIGHT DISTILLING COMPANY, Loreley Station, Md. Filed Jan. 6, 1934.

WOODBROOK

For Rye Whiskey and Blended Whiskeys.
Claims use since Jan. 3, 1934.

Ser. No. 345,795. SOCIETE ANONYME LES FILS DE P. BARDINET, Cauderan, near Bordeaux, France. Filed Jan. 8, 1934. Under 10-year proviso.



For Rum.
Claims use since Nov. 17, 1894.

Ser. No. 345,885. ISAAC GERSTLEY, doing business as Rosskam, Gerstley & Co., Philadelphia, Pa. Filed Jan. 10, 1934. Under 10-year proviso.

Old Saratoga

For Whiskey and/or Other Potable Distilled Spirits.
Claims use since August, 1872.

Ser. No. 345,986. L. SPEIDEL & CO., INC., Boston, Mass. Filed Jan. 12, 1934.

Ye Old Colonial Rum

The word "Rum" is disclaimed apart from the mark shown.
For Rum and Other Potable Distilled Spirits.
Claims use since Jan. 5, 1934.

Ser. No. 346,021. STANDARD LIQUOR CORPORATION, Chicago, Ill. Filed Jan. 13, 1934.

BIRCHWOOD

For Whisky.
Claims use since Dec. 9, 1933.

Ser. No. 346,023. STANDARD LIQUOR CORPORATION, Chicago, Ill. Filed Jan. 13, 1934.

Over-All

For Whisky.
Claims use since Dec. 9, 1933.

Ser. No. 346,036. LEONARD GORDON IMPORTATION CO., INC., New York, N. Y. Filed Jan. 15, 1934.

SHADY OAK

For Whiskey and Gin.
Claims use since December, 1933.

Ser. No. 346,050. HORTON & CONVERSE, Los Angeles, Calif. Filed Jan. 15, 1934.

ST. GEORGE

For Whiskey, Brandy, Gin.
Claims use since Feb. 12, 1931.

Ser. No. 346,090. SONIA K. URI, Louisville, Ky. Filed Jan. 15, 1934.

Queen Bee

For Whiskey.
Claims use since April, 1892.

Ser. No. 346,091. SONIA K. URI, Louisville, Ky. Filed Jan. 15, 1934.



For Whiskey.
Claims use since April, 1892.

Ser. No. 346,115. JOS. S. FINCH & COMPANY, Schenley, Pa., and New York, N. Y. Filed Jan. 16, 1934.

OLD DIAMOND WEDDING

For Whiskey, Gin, Brandy, Rum, and Other Potable Distilled Spirits.
Claims use since Dec. 13, 1933.

Ser. No. 346,122. MARYLAND DISTILLERS PRODUCTS CORPORATION, Baltimore, Md. Filed Jan. 16, 1934.

CREAM OF MARYLAND

For Whiskey.
Claims use since Dec. 19, 1933.

Ser. No. 346,146. ALLIANCE DISTRIBUTORS, INC., New York, N. Y. Filed Jan. 17, 1934.

Old Friar

For Whiskey.
Claims use since Dec. 1, 1933.

Ser. No. 346,147. ALLIANCE DISTRIBUTORS, INC., New York, N. Y. Filed Jan. 17, 1934.

Old Shantyboat

For Whiskey.
Claims use since Dec. 1, 1933.

Ser. No. 346,161. IRVING HAIM, doing business as The Alliance Company, New York, N. Y. Filed Jan. 17, 1934.

"73"

For Whiskey.
Claims use since Dec. 6, 1933.

Ser. No. 346,204. INTERSTATE WINE & LIQUOR CO., Baltimore, Md. Filed Jan. 18, 1934.

WEDDING RING

For Whiskey.
Claims use since Jan. 9, 1934.

Ser. No. 346,221. WASHINGTON DISTILLERS & RECTIFYING, INC., New York, N. Y. Filed Jan. 18, 1934.



The signature as shown in the drawing is a facsimile of the handwriting of James T. Wilson, an officer of the corporation.
For Pure Rye Whiskey.
Claims use since Dec. 15, 1933.

Ser. No. 346,228. BON TON BEVERAGES, INCORPORATED, Chicago, Ill. Filed Jan. 19, 1934.

BOURBONDALE

For Whiskey.
Claims use since Jan. 8, 1934.

Ser. No. 346,229. BON TON BEVERAGES, INCORPORATED, Chicago, Ill. Filed Jan. 19, 1934.

Old Chesterfield

For Dry Gin.
Claims use since Jan. 17, 1934.

Ser. No. 346,239. FRANKFORT DISTILLERIES, INCORPORATED, Louisville, Ky. Filed Jan. 19, 1934.

WILDERNESS ROAD



For Whiskey.
Claims use since Jan. 11, 1934.

Ser. No. 346,247. MEYER & LANGE, INC., New York, N. Y. Filed Jan. 19, 1934.

Whitegate

For Gin.
Claims use since Jan. 12, 1934.

Ser. No. 346,251. RAPKEN & CO. LTD., San Francisco, Calif. Filed Jan. 19, 1934.

BLACK BEAUTY

For Whiskey.
Claims use since Dec. 19, 1933.

Ser. No. 346,289. DAVIS & ZIGMOND, LIMITED, London, England. Filed Jan. 20, 1934.

"GOLDEN KNIGHT"

For Whisky.
Claims use since Aug. 19, 1929.

Ser. No. 346,292. HARRY DODGE, doing business as Harry Dodge Co., Los Angeles, Calif. Filed Jan. 20, 1934.

MONKSHEAD

For Whiskey and Other Potable Distilled Liquors.
Claims use since Dec. 6, 1933.

Ser. No. 346,324. SCHENLEY PRODUCTS COMPANY, New York, N. Y. Filed Jan. 20, 1934. Under 10-year proviso.

OLD R.B. Hayden

For Whiskey.
Claims use since September, 1891.

Ser. No. 346,332. UNITED LIQUOR CO., Los Angeles, Calif. Filed Jan. 20, 1934.

Sportsman

For Gin.
Claims use since Dec. 6, 1933.

Ser. No. 346,349. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Jan. 22, 1934.

Blue Stone

For Whiskey and Other Potable Distilled Spirits.
Claims use since Dec. 6, 1932.

Ser. No. 346,350. JOS. S. FINCH & COMPANY, Schenley, Pa., and New York, N. Y. Filed Jan. 22, 1934.

BRIARWOOD

For Whiskey, Gin, Rum, Brandy, and Other Potable Distilled Spirits.
Claims use since Dec. 12, 1933.

Ser. No. 346,351. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Jan. 22, 1934.



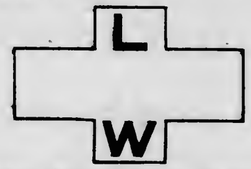
For Whiskey and Other Potable Spirits.
Claims use since Mar. 25, 1930.

Ser. No. 346,352. JOS. S. FINCH & COMPANY, Schenley, Pa., and New York, N. Y. Filed Jan. 22, 1934.

GOLD LEAF

For Whiskey, Gin, Rum, Brandy, and Other Potable Distilled Spirits.
Claims use since Dec. 13, 1933.

Ser. No. 346,353. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Jan. 22, 1934.



For Whiskey and Other Potable Distilled Spirits.
Claims use since March, 1927.

Ser. No. 346,354. JOS. S. FINCH & COMPANY, New York, N. Y. Filed Jan. 22, 1934.

Redcliff

For Whiskey, Gin, and Other Potable Distilled Spirits.
Claims use since Nov. 29, 1929.

Ser. No. 346,373. JAS. E. PEPPER & COMPANY, Lexington, Ky., and New York, N. Y. Filed Jan. 22, 1934.

ECHO

For Gin.
Claims use since Dec. 12, 1933.

Ser. No. 346,401. Jos. S. FINCH & COMPANY, Schenley, Pa., and New York, N. Y. Filed Jan. 23, 1934.

BRIAR CAVE

For Whiskey, Gin, Rum, Brandy, and Other Potable Distilled Spirits.
Claims use since Dec. 13, 1933.

Ser. No. 346,402. Jos. S. FINCH & COMPANY, New York, N. Y. Filed Jan. 23, 1934.

Finch's Old Reserve

No claim is made to the words "Old Reserve."
For Whiskey, Brandy, Rum, Gin, and Other Potable Distilled Spirits.
Claims use since Jan. 11, 1929.

Ser. No. 346,436. SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Jan. 23, 1934.

SOBERANO

GONZALEZ, BYASS Y CA.

For Brandy and Other Potable Distilled Spirits.
Claims use since 1900.

Ser. No. 346,441. SPITZER BROS. INC., New York, N. Y. Filed Jan. 23, 1934.

BONNIE DOON

For Whiskey.
Claims use since Dec. 22, 1933.

Ser. No. 346,556. DAVIS, LEOPOLD & CO., INC., New York, N. Y. Filed Jan. 26, 1934.

Monte Carlo

For Whiskey.
Claims use since 1898.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 344,624. RUBBERIZED FABRICS, INCORPORATED, Kansas City, Mo. Filed Dec. 8, 1933.

Lotuscloth

No claim is made to the use of the word "Cloth" apart from the mark as shown.
For Rubberized Fabrics, Especially Adapted for Sheeting, Pillow Covers, Crib Mattress Sheets and Covers, Operating Table Pad Covers, Surgical Aprons, Laboratory Aprons, Wet Dressings, Raincoats and Capes, Golf Jackets, Sanitary Aprons, Dress Shields, Babies' Wear, Oxygen Tents, Tarpaulins for Airplane Engines, and Construction and Army Field Maps.
Claims use since Aug. 24, 1933.

Ser. No. 345,066. THE LANDERS CORPORATION, Toledo, Ohio. Filed Dec. 18, 1933.

sani-sheet

No claim is made for the exclusive use of the word "Sheet" apart from the mark as used.
For Sheeting Chemically Treated Used in Hospital Beds, Baby Cribs, and the Like.
Claims use since Nov. 1, 1933.

Ser. No. 345,919. THE REVOLITE CORPORATION, New Brunswick, N. J. Filed Jan. 11, 1934.

REVOLITE

For Flexible Resinoid Coated or Impregnated Fabrics.
Claims use since July 31, 1931.

Ser. No. 345,931. ARCHER RUBBER COMPANY, Milford, Mass. Filed Jan. 12, 1934.

CHER-VELASTIC

For Rubberized Fabrics.
Claims use since Dec. 12, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

FEBRUARY 27, 1934

310,394. WHISKY, BRANDY, RUM, LIQUEUR OR CORDIAL, GIN. J. H. ROBERT GRANT, New York, N. Y.
Filed October 12, 1933. Serial No. 342,393. PUBLISHED DECEMBER 12, 1933. Class 49.

310,395. CEREAL PRODUCTS, PARTICULARLY WHEAT FLAKES. GENERAL MILLS, INC., Minneapolis, Minn.
Filed October 11, 1933. Serial No. 342,376. PUBLISHED DECEMBER 12, 1933. Class 46.

310,396. DENTURE BRUSHES. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed October 12, 1933. Serial No. 342,395. PUBLISHED DECEMBER 19, 1933. Class 29.

310,397. KNIT GOODS AND FLANNELETTES. BROWN DURRELL CO., Boston, Mass.
Filed July 29, 1933. Serial No. 340,213. PUBLISHED DECEMBER 12, 1933. Class 39.

310,398. BREWED MALT BEVERAGES OF LEGAL ALCOHOLIC CONTENT. A. GETTELMAN BREWING COMPANY, Milwaukee, Wis.
Filed August 5, 1933. Serial No. 340,442. PUBLISHED DECEMBER 19, 1933. Class 48.

310,399. RAZOR BLADES. CLUB RAZOR AND BLADE MFG. CORP., Newark, N. J.
Filed August 4, 1933. Serial No. 340,382. PUBLISHED DECEMBER 19, 1933. Class 23.

310,400. CHOCOLATE. WALTER BAKER & COMPANY, INC., New York, N. Y.
Filed October 23, 1933. Serial No. 342,783. PUBLISHED DECEMBER 19, 1933. Class 46.

310,401. WHISKEY. BUFFALO SPRINGS DISTILLING COMPANY, INCORPORATED, Stamping Ground, Ky.
Filed October 23, 1933. Serial No. 342,780. PUBLISHED DECEMBER 12, 1933. Class 49.

310,402. FROZEN CONFECTIONS. ESKIMO PIE CORPORATION, New York, and Brooklyn, N. Y.
Filed October 23, 1933. Serial No. 342,795. PUBLISHED DECEMBER 19, 1933. Class 46.

310,403. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS. CAMERON AND COMPANY, INCORPORATED, Napa, Calif.
Filed October 23, 1933. Serial No. 342,790. PUBLISHED DECEMBER 19, 1933. Class 39.

310,404. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky.
Filed October 24, 1933. Serial No. 342,832. PUBLISHED DECEMBER 12, 1933. Class 49.

310,405. OVERALLS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 23, 1933. Serial No. 342,817. PUBLISHED DECEMBER 12, 1933. Class 39.

310,406. BRANDY. GUY GAUTIER, doing business as Guy Gautier & Company, Cognac, France.
Filed October 25, 1933. Serial No. 342,903. PUBLISHED DECEMBER 12, 1933. Class 49.

310,407. CRACKERS OF UNLEAVENED BREAD KNOWN AS "MATZOS". THE B. MANISCHEWITZ CO., Jersey City, N. J., and Cincinnati, Ohio.
Filed October 24, 1933. Serial No. 342,861. PUBLISHED DECEMBER 19, 1933. Class 46.

310,408. HIGH POTENTIAL ELECTRICAL FIXTURES FOR THE EXTERMINATION OF INSECT LIFE BY ELECTROCUTION. FOLMER-ELECTRACIDE CORPORATION, Rochester, N. Y.
Filed October 26, 1933. Serial No. 342,944. PUBLISHED DECEMBER 12, 1933. Class 21.

310,409. MACARONI. GENERAL IMPORTING COMPANY, Middletown, Conn.
Filed October 25, 1933. Serial No. 342,904. PUBLISHED DECEMBER 19, 1933. Class 46.

310,410. HUNTING KNIVES AND POCKET KNIVES. ERIC WEDEMEYER, New York, N. Y.
Filed October 27, 1933. Serial No. 342,992. PUBLISHED DECEMBER 19, 1933. Class 23.

310,411. JEWELRY AND ORNAMENTAL NOVELTIES CONSISTING OF BRACELETS, BROOCHES, EARRINGS, AND VANITY CASES, ROUGE CONTAINERS, BAG ORNAMENTS, BAG FRAMES, CIGARETTE HOLDERS AND CASES, AND SALT AND PEPPER SHAKERS PARTLY MADE OF, OR PLATED WITH PRECIOUS METAL. MOLDING CORPORATION OF AMERICA, INC., Providence, R. I.
Filed October 26, 1933. Serial No. 342,950. PUBLISHED DECEMBER 12, 1933. Class 28.

310,412. CHEMICAL COMPOUNDS USED IN THE MANUFACTURE OF ENAMELS AND GLAZES. THE TITANIUM ALLOY MANUFACTURING COMPANY, Niagara Falls, N. Y.
Filed October 11, 1933. Serial No. 342,368. PUBLISHED DECEMBER 19, 1933. Class 6.

310,413. OPAQUING AGENTS AND PIGMENTS USED IN THE MANUFACTURE OF ENAMELS AND GLAZES. THE TITANIUM ALLOY MANUFACTURING COMPANY, Niagara Falls, N. Y.
Filed October 11, 1933. Serial No. 342,367. PUBLISHED DECEMBER 19, 1933. Class 6.

310,414. MECHANICAL FRUIT JUICERS. THE HYDRAULIC PRESS MANUFACTURING COMPANY, Mount Gilead, Ohio.
Filed August 11, 1933. Serial No. 340,616. PUBLISHED DECEMBER 19, 1933. Class 23.

310,415. NONRUBBING LINIMENT FOR RELIEVING RHEUMATIC PAINS, SPRAINS, BRUISES, SWELLING, CONGESTION. DAVID WRÓBLEWSKI, doing business as D. Wróblewski, Brooklyn, N. Y.
Filed August 8, 1933. Serial No. 340,501. PUBLISHED DECEMBER 12, 1933. Class 6.

310,416. INDIVIDUAL MAKE-UP PACKS, CONTAINING ROUGE, POWDER AND LIP PASTE. TIS-METTES, Chicago, Ill.
Filed August 12, 1933. Serial No. 340,661. PUBLISHED DECEMBER 5, 1933. Class 6.

310,417. NAINSOOK AND COTTON PIECE GOODS. WILLIAM LIND, doing business as William Lind Co., New York, N. Y.
Filed August 12, 1933. Serial No. 340,650. PUBLISHED DECEMBER 12, 1933. Class 42.

310,418. DRESSES, SUITS, SWEATERS, BLOUSES FOR THE USE OF WOMEN. S. AUGSTEIN & Co., New York, N. Y.
Filed August 19, 1933. Serial No. 340,824. PUBLISHED NOVEMBER 14, 1933. Class 39.

310,419. BAY RUM. THE H. MICHELSEN CO. LTD., New York, N. Y.
Filed August 18, 1933. Serial No. 340,803. PUBLISHED DECEMBER 12, 1933. Class 6.

310,420. WOOLEN BATHING TRUNKS AND BATHING SUITS. E. W. STEWART, Los Angeles, Calif.
Filed August 28, 1933. Serial No. 341,101. PUBLISHED DECEMBER 12, 1933. Class 39.

310,421. BEVERAGE COOLING AND DISPENSING APPARATUS ADAPTED FOR ATTACHMENT EITHER TO A COUNTER OR KEG TOP AND DISPENSING THE COOLED BEVERAGE UNDER PRESSURE. ILLINOIS BRASS MANUFACTURING CO., Chicago, Ill.
Filed August 21, 1933. Serial No. 340,877. PUBLISHED DECEMBER 19, 1933. Class 31.

310,422. FIBRE SHIPPING AND PACKING BOXES AND FOLDERS. THE HINDE & DAUCH PAPER COMPANY, Sandusky, Ohio.
Filed August 30, 1933. Serial No. 341,185. PUBLISHED DECEMBER 19, 1933. Class 2.

310,423. LADIES' COATS. LOU SCHNEIDER, INC., New York, N. Y.
Filed August 29, 1933. Serial No. 341,136. PUBLISHED DECEMBER 12, 1933. Class 39.

310,424. PROPHYLACTIC RUBBER GOODS FOR THE PREVENTION OF CONTAGIOUS DISEASES. AKRON DRUG AND SUNDRIES COMPANY, Akron, Ohio.
Filed October 18, 1933. Serial No. 342,602. PUBLISHED DECEMBER 19, 1933. Class 44.

310,425. INSECTICIDE ADAPTED TO BE USED AS A SPRAY. PLANT FOODS, INC., Blue Point, N. Y.
Filed September 5, 1933. Serial No. 341,339. PUBLISHED DECEMBER 12, 1933. Class 6.

310,426. GASOLINE, MOTOR LUBRICATING OILS AND GREASES, KEROSENE. EDGAR RICE BURROUGHS, INC., Tarzana, Calif.
Filed October 19, 1933. Serial No. 342,638. PUBLISHED DECEMBER 12, 1933. Class 15.

310,427. TRUNKS, SUITCASES, LEATHER PORTFOLIOS, PURSES AND POCKETBOOKS, DOG AND CAT COLLARS, HARNESSES AND LEADS, ANIMAL CARRYING CASES, HORSE SADDLES AND BRIDLES. EDGAR RICE BURROUGHS, INC., Tarzana, Calif.
Filed October 19, 1933. Serial No. 342,636. PUBLISHED DECEMBER 19, 1933. Class 3.

310,428. HONEY FOOD SPREAD. CRANE HONEY INCORPORATED, Washington, D. C.
Filed October 20, 1933. Serial No. 342,688. PUBLISHED DECEMBER 19, 1933. Class 46.

310,429. WHISKEY. DISTILLERS DISTRIBUTING CORPORATION, San Francisco, Calif.
Filed October 20, 1933. Serial No. 342,691. PUBLISHED DECEMBER 12, 1933. Class 49.

310,430. DRESS SHIRTS, NEGLIGEE SHIRTS, WORK SHIRTS, AND UNDERSHIRTS; COLLARS, TIES, SWEATERS, SWEATER JACKETS, HOSIERY, BATHING SUITS, BEACH ROBES, HOUSE ROBES; UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS, AND PYJAMAS. A. SULKA & COMPANY, New York, N. Y.
Filed October 20, 1933. Serial No 342,711. PUBLISHED DECEMBER 19, 1933. Class 39.

310,431. DRESS SHIRTS, NEGLIGEE SHIRTS, WORK SHIRTS, AND UNDERSHIRTS; COLLARS, TIES, SWEATERS, SWEATER JACKETS, HOSIERY, BATHING SUITS, BEACH ROBES, HOUSE ROBES; UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS; AND PYJAMAS. A. SULKA & COMPANY, New York, N. Y.
Filed October 20, 1933. Serial No. 342,710. PUBLISHED DECEMBER 19, 1933. Class 39.

310,432. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. CONSOLIDATED DILTILLERIES, LIMITED, Montreal, Quebec, Canada.
Filed October 21, 1933. Serial No. 342,734. PUBLISHED DECEMBBER 12, 1933. Class 49.

310,433. CANDY. BARRICINI INC., New York, N. Y.
Filed October 21, 1933. Serial No. 342,726. PUBLISHED DECEMBER 12, 1933. Class 46.

310,434. WHISKEY. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky.
Filed October 21, 1933. Serial No. 342,723. PUBLISHED DECEMBER 12, 1933. Class 49.

310,435. MEN'S AND BOYS' SUITS AND OVERCOATS. PINCUS BROS., INC., Philadelphia, Pa.
Filed October 19, 1933. Serial No. 342,716. PUBLISHED DECEMBER 12, 1933. Class 39.

310,436. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. CONSOLIDATED DISTILLERIES, LIMITED, Montreal, Quebec, Canada.
Filed October 21, 1933. Serial No. 342,738. PUBLISHED DECEMBER 12, 1933. Class 49.

310,437. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. CONSOLIDATED DISTILLERIES, LIMITED, Montreal, Quebec, Canada.
Filed October 21, 1933. Serial No. 342,736. PUBLISHED DECEMBER 12, 1933. Class 49.

310,438. DISTILLED ALCOHOL CORDIALS. JOSEPH DELLA MONICA, Brooklyn, N. Y.
Filed October 21, 1933. Serial No. 342,761. PUBLISHED DECEMBER 19, 1933. Class 49.

310,439. MANIFOLDING ATTACHMENT FOR TYPEWRITING MACHINES. MANIFOLD DEVICES & SYSTEMS CORP., Hoboken, N. J.
Filed October 21, 1933. Serial No. 342,760. PUBLISHED DECEMBER 19, 1933. Class 23.

310,440. BEER. ABNER DRURY BREWERY INC., Washington, D. C.
Filed November 9, 1932. Serial No. 343,428. PUBLISHED DECEMBER 19, 1933. Class 48.

310,441. AUTOMOBILE BODIES AND THEIR STRUCTURAL PARTS. CHRYSLER CORPORATION, Highland Park, Mich.
Filed November 8, 1933. Serial No. 343,388. PUBLISHED DECEMBER 19, 1933. Class 19.

310,442. FRESH CITRUS FRUIT. TEXAS CITRUS FRUIT GROWERS EXCHANGE, Mission, Tex.
Filed November 6, 1933. Serial No. 343,309. PUBLISHED DECEMBER 19, 1933. Class 46.

310,443. AUTOMOBILE BODIES AND THEIR STRUCTURAL PARTS. CHRYSLER CORPORATION, Highland Park, Mich.
Filed November 8, 1933. Serial No. 343,387. PUBLISHED DECEMBER 19, 1933. Class 19.

310,444. TOY SCALES. AJAX BOTTLE CAP CORP., Brooklyn, N. Y.
Filed November 7, 1933. Serial No. 343,314. PUBLISHED DECEMBER 19, 1933. Class 22.

310,445. CIGARS. M. & N. CIGAR MANUFACTURERS, INC., Cleveland, Ohio.
Filed November 7, 1933. Serial No. 343,358. PUBLISHED DECEMBER 19, 1933. Class 17.

310,446. LAXATIVES. GERALD G. BALCH, Pittsburgh, Pa.
Filed November 8, 1933. Serial No. 343,382. PUBLISHED DECEMBER 19, 1933. Class 6.

310,447. CIGARETTE PAPER. PETER J. SCHWEITZER, INC., Elizabeth, N. J.
Filed November 7, 1933. Serial No. 343,370. PUBLISHED DECEMBER 19, 1933. Class 8.

310,448. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed November 3, 1933. Serial No. 343,225. PUBLISHED DECEMBER 12, 1933. Class 42.

310,449. HOSIERY. RAINBOW HOSIERY, INC., Rochester, N. Y.
Filed November 3, 1933. Serial No. 343,223. PUBLISHED DECEMBER 19, 1933. Class 39.

310,450. CARTS, TRUCKS—HAND OR MOTOR DRIVEN — TRAILERS, WHEEL BARROWS. JABURG BROTHERS, INC., New York, N. Y.
Filed November 6, 1933. Serial No. 343,287. PUBLISHED DECEMBER 19, 1933. Class 19.

310,451. MALT BEVERAGES HAVING AN ALCOHOLIC CONTENT NOT IN EXCESS OF THAT PERMITTED BY LAW. N. H. DARSKY, doing business as Golden Age Beverage Co., Youngstown, Ohio.
Filed November 6, 1933. Serial No. 343,272. PUBLISHED DECEMBER 19, 1933. Class 48.

310,452. CAKE. LOFT, INC., Long Island City, N. Y.
Filed November 6, 1933. Serial No. 343,291. PUBLISHED DECEMBER 19, 1933. Class 46.

310,453. FACE POWDER AND PERFUMES. LES PARFUMS MARLY, INC., New York, N. Y.
Filed November 6, 1933. Serial No. 343,290. PUBLISHED DECEMBER 19, 1933. Class 6.

310,454. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. THE GEO. T. STAGG Co., Frankfort, Ky.
Filed November 1, 1933. Serial No. 343,141. PUBLISHED DECEMBER 12, 1933. Class 49.

310,455. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. THE GEO. T. STAGG Co., Frankfort, Ky.
Filed November 1, 1933. Serial No. 343,140. PUBLISHED DECEMBER 12, 1933. Class 49.

310,456. WHEAT FLOUR. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash.
Filed November 2, 1933. Serial No. 343,169. PUBLISHED DECEMBER 19, 1933. Class 46.

310,457. WHEAT FLOUR. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash.
Filed November 2, 1933. Serial No. 343,167. PUBLISHED DECEMBER 19, 1933. Class 46.

310,458. ANDWICH SPREAD AND SALAD DRESSING. HAWAIIAN AVOCADO CO. LTD., Honolulu, Territory of Hawaii.
Filed November 3, 1933. Serial No. 343,208. PUBLISHED DECEMBER 19, 1933. Class 46.

310,459. WHISKY. THE FRIEDMAN-LEMLER COMPANY, Baltimore, Md.
Filed November 3, 1933. Serial No. 343,206. PUBLISHED DECEMBER 19, 1933. Class 49.

310,460. MUSICAL INSTRUMENTS AND MUSICAL INSTRUMENT REPAIRS AND SUPPLIES. HONEYCOMBE & SON, Madison, Wis.
Filed September 27, 1933. Serial No. 341,922. PUBLISHED DECEMBER 12, 1933. Class 36.

310,461. ELECTRICALLY OPERATED SIGNALLING LIGHT SYSTEMS FOR USE ON MOTOR VEHICLES. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed September 27, 1933. Serial No. 341,938. PUBLISHED DECEMBER 12, 1933. Class 21.

310,462. FOOT POWDER. JOHN H. HOLMAN, Knoxville, Tenn.
Filed September 23, 1933. Serial No. 341,836. PUBLISHED DECEMBER 5, 1933. Class 6.

310,463. PREPARATION FOR THE RELIEF OF HEADACHE, NEURALGIA, COLDS, ETC. AL. B. HIRSCHMAN, doing business as Hirschman Laboratories, San Pedro, Calif.
Filed September 23, 1933. Serial No. 341,883. PUBLISHED DECEMBER 19, 1933. Class 6.

310,464. NASAL AND THROAT MEDICINES. ADELINE R. FARNUM, doing business as Farnum Estate, San Francisco, Calif.
Filed September 21, 1933. Serial No. 341,760. PUBLISHED DECEMBER 5, 1933. Class 6.

310,465. EYE MEDICINE. STAWELL LABORATORIES, Chicago, Ill.
Filed September 22, 1933. Serial No. 341,812. PUBLISHED DECEMBER 5, 1933. Class 6.

310,466. MEDICINAL PREPARATION FOR TOE ITCH, RINGWORM, JOCK ITCH, AND ECZEMA. J. LINWOOD SUTTON, doing business as Sutton Laboratories, Durham, N. C.
Filed September 7, 1933. Serial No. 341,412. PUBLISHED DECEMBER 5, 1933. Class 6.

310,467. SAUSAGE CASINGS. THE VISKING CORPORATION, Chicago, Ill.
Filed September 18, 1933. Serial No. 341,670. PUBLISHED DECEMBER 12, 1933. Class 46.

310,468. INSECTICIDE FOR ORNAMENTALS, VEGETABLES, AND FLOWERS. PLANT FOODS, INC., Blue Point, N. Y.
Filed September 5, 1933. Serial No. 341,340. PUBLISHED DECEMBER 12, 1933. Class 6.

310,469. DISINFECTANTS. MONTANA AKTIENGESELLSCHAFT, Strebla, Germany.
Filed September 6, 1933. Serial No. 341,373. PUBLISHED DECEMBER 12, 1933. Class 6.

310,470. MALT EXTRACT AND CANNED SARDINES. HILMER COMMISSION CO., doing business as Harvest Products Co., St. Louis, Mo.
Filed February 13, 1933. Serial No. 334,918. PUBLISHED DECEMBER 19, 1933. Class 46.

310,471. TANK FOR USE IN THE MIXING AND FERMENTING OF DOUGH AND PRODUCTS RESULTING THEREFROM. WILLIAM F. PETERSEN, Chicago, Ill.
Filed March 18, 1933. Serial No. 335,832. PUBLISHED JUNE 13, 1933. Class 23.

310,472. PLAYING CARDS. BUFORD A. LYNCH, Jr., Washington, D. C.
Filed February 7, 1933. Serial No. 334,712. PUBLISHED DECEMBER 19, 1933. Class 22.

310,473. PLAYING CARDS. BUFORD A. LYNCH, Jr., Washington, D. C.
Filed February 7, 1933. Serial No. 334,713. PUBLISHED DECEMBER 19, 1933. Class 22.

310,474. INSECTICIDE. DAIZO OUSHIMO, Asagun, Gion, Hiroshima, Japan.
Filed January 31, 1933. Serial No. 334,496. PUBLISHED DECEMBER 5, 1933. Class 6.

310,475. COSMETIC AND MANICURE PREPARATIONS. ARKWRIGHT MERCHANDISING CORP., New York, N. Y.
Filed February 3, 1933. Serial No. 334,593. PUBLISHED MARCH 21, 1933. Class 6.

310,476. AUTOMOBILES AND STRUCTURAL PARTS THEREOF, NOT INCLUDING STEERING WHEELS. CONTINENTAL AUTOMOBILE COMPANY, Grand Rapids and Detroit, Mich.
Filed January 16, 1933. Serial No. 334,029. PUBLISHED OCTOBER 24, 1933. Class 19.

310,477. MEDICINE FOR USE IN TREATMENT OF COLDS, NEURALGIA, CROUP, SORE THROAT, NASAL CATARRH, NERVOUS HEADACHE, CHAPPED HANDS AND FACE, PRICKLY HEAT OR CHAFING, ECZEMA ITCHING, BURNS, SCALDS, INSECT STINGS, CUTS, BRUISES, MUSCULAR SORENESS, AND CHILBLAINS. THOMAS KNIGHT BOWLES, Greensboro, N. C.
Filed January 26, 1933. Serial No. 334,378. PUBLISHED DECEMBER 5, 1933. Class 6.

310,478. ADHESIVE DENTURE POWDER. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed December 17, 1932. Serial No. 333,157. PUBLISHED FEBRUARY 21, 1933. Class 6.

310,479. ELECTRICALLY ILLUMINATED HOUSE NUMBERS, NAME PLATES, AND ADVERTISING SIGNS. HOME-ELECTRICAL SPECIALTIES CORP., Cleveland, Ohio.
Filed December 31, 1932. Serial No. 333,555. PUBLISHED DECEMBER 12, 1933. Class 21.

310,480. FROZEN CONFECTIONS AND ICE-CREAM CONFECTION ON STICKS. FROZEN CONFECTIONS, INC., New York, N. Y.
Filed November 14, 1932. Serial No. 332,117. PUBLISHED DECEMBER 19, 1933. Class 46.

310,481. GARMENT PRESSES. UNITED STATES HOFFMAN MACHINERY CORPORATION, New York, N. Y.
Filed November 28, 1932. Serial No. 332,557. PUBLISHED DECEMBER 19, 1933. Class 24.

310,482. PEANUTS. HENRY WALKER POWELL, doing business as Southern Peanut Products Company, Charlotte, N. C.
Filed October 12, 1932. Serial No. 331,196. PUBLISHED DECEMBER 12, 1933. Class 46.

310,483. SALVES, LINIMENTS, AND MEDICINAL PREPARATIONS FOR INTERNAL USE, PRIMARILY DESIGNED TO BE USED IN THE TREATMENT OF AILMENTS OF HORSES. CHARLES MCFADDEN, doing business as Dr. H. Vickrey Remedy Co., Chicago, Ill.
Filed October 20, 1932. Serial No. 331,527. PUBLISHED JANUARY 3, 1933. Class 6.

310,484. COSMETIC AND HAIR PREPARATIONS, ETC. PLOUGH, INC., doing business as Kiss-O-Love Perfumers, Memphis, Tenn.
Filed October 6, 1932. Serial No. 331,007. PUBLISHED NOVEMBER 29, 1932. Class 6.

310,485. CANNED VEGETABLES. DEL SUR CANNING CO., LTD., San Francisco, Calif.
Filed October 11, 1932. Serial No. 331,145. PUBLISHED DECEMBER 12, 1933. Class 46.

310,486. GASOLINE. THE LUBRI-GRAPH CORPORATION, Cleveland and Wickliffe, Ohio.
Filed September 13, 1932. Serial No. 330,303. PUBLISHED APRIL 18, 1933. Class 15.

310,487. OBJECTS MADE OF PORCELAIN—NAMELY, VASES, FLOWER POTS, DISHES, CUPS, GORLETS. WÜRTTEMBERGISCHE METALLWARENFABRIK, Geislingen-Steige, Germany.
Filed October 3, 1932. Serial No. 330,912. PUBLISHED MAY 30, 1933. Class 30.

310,488. METALLIC CASTINGS, FORGINGS, AND FABRICATIONS. AMERICAN STEEL FOUNDRIES, Chicago, Ill.
Filed August 11, 1932. Serial No. 329,487. PUBLISHED DECEMBER 19, 1933. Class 23.

310,489. FERTILIZERS. L. I. RAMEY, Danville, Va.
Filed August 31, 1932. Serial No. 330,021. PUBLISHED DECEMBER 19, 1933. Class 10.

310,490. NONMETALLIC CHEMICAL PREPARATIONS IN LIQUID OR SOLID FORM FOR USE IN HARDENING AND SOLDERING METALS; CHEMICAL PREPARATIONS IN LIQUID, PASTE, OR SOLID FORM FOR USE IN TANNING LEATHER; FUNGICIDES AND INSECTICIDES; WOOD PRESERVATIVES, BEING CHEMICAL SUBSTANCES OBTAINED FROM SPENT LYES IN THE MANUFACTURE OF CELLULOSE, MORE ESPECIALLY FROM WASTE SULPHITE LYE. ZELLSTOFFFABRIK WALDHOF, Mannheim-Waldhof, Germany.
Filed June 21, 1932. Serial No. 328,197. PUBLISHED DECEMBER 5, 1933. Class 6.

310,491. [WITHDRAWN.]

310,492. NONALCOHOLIC MALTLESS BEVERAGE SOLD AS A SOFT DRINK. FREDERICK WOLF, North Bergen, N. J.
Filed June 14, 1932. Serial No. 327,995. PUBLISHED NOVEMBER 14, 1933. Class 45.

310,493. COSMETIC AND MANICURE PREPARATIONS, ETC. DON BAXTER, INC., Glendale, Calif.
Filed June 17, 1932. Serial No. 328,054. PUBLISHED DECEMBER 19, 1933. Class 6.

310,494. MOISTURE ABSORBENT DEHYDRATORS FOR SALT AND OTHER MATERIALS. ALADDIN PRODUCTS CORP., Opa Locka, Fla.
Filed September 24, 1931. Serial No. 319,433. PUBLISHED DECEMBER 5, 1933. Class 6.

310,495. SMOKING TOBACCO. HELEN A. COHN, doing business as Bouquet-Cohn Cigar Co., San Francisco, Calif.
Filed June 3, 1932. Serial No. 327,679. PUBLISHED DECEMBER 19, 1933. Class 17.

310,496. OBJECTS OF ART AND OF INDUSTRIAL ARTS, MADE OF PRECIOUS METAL OR SEMI PRECIOUS METAL OR ALLOYS, ESPECIALLY, VASES, FLOWER VASES, ETC. WÜRTTEMBERGISCHE METALLWARENFABRIK, Geislingen-Steige, Germany.
Filed February 27, 1931. Serial No. 311,546. PUBLISHED MAY 23, 1933. Class 28.

310,497. AEROPLANES, AEROPLANE ACCESSORIES AND ALL ARTICLES RELATING TO AERONAUTICS. ETABLISSEMENTS ARBA, Paris, France.
Filed March 12, 1931. Serial No. 312,079. PUBLISHED DECEMBER 19, 1933. Class 26.

310,498. TEA, COFFEE, PEPPER, AND CURRIE POWDER. KABUSHIKI KAISHA KOTOBUNIYA, Osaka, Japan.
Filed July 26, 1933. Serial No. 340,122. PUBLISHED DECEMBER 19, 1933. Class 46.

310,499. RUBBER CEMENT. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa.
Filed July 27, 1933. Serial No. 340,176. PUBLISHED DECEMBER 12, 1933. Class 5.

310,500. ADHESIVE RUNNING BOARD COVERING CEMENT. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del., doing business as Booster Chemical & Engineering Co., Baltimore, Md.
Filed October 4, 1933. Serial No. 342,141. PUBLISHED DECEMBER 12, 1933. Class 5.

310,501. FILLETS OF FRESH FISH. GENERAL SEAFOODS CORPORATION, Boston, Mass.
Filed October 4, 1933. Serial No. 342,128. PUBLISHED DECEMBER 12, 1933. Class 46.

310,502. THERMOSTATS, THERMOSTATIC VALVES, AND THERMOSTATIC REGULATORS. ROBERTSHAW THERMOSTAT COMPANY, Youngwood, Pa.
Filed September 29, 1933. Serial No. 342,015. PUBLISHED DECEMBER 19, 1933. Class 26.

310,503. CARPET SWEEPERS. BISSELL CARPET SWEEPER CO., Grand Rapids, Mich.
Filed October 5, 1933. Serial No. 342,151. PUBLISHED DECEMBER 19, 1933. Class 23.

310,504. RYE WHISKEY. AUGUSTUS B. CLARK, doing business as The T. O. S. Distilling Company, Baltimore, Md.
Filed October 2, 1933. Serial No. 342,065. PUBLISHED DECEMBER 12, 1933. Class 49.

310,505. COMPOUND FOR USE IN TREATING THE WIRES AND CONNECTIONS OF ELECTRIC BATTERIES AND FOR TREATING ELECTRIC TRANSMISSION CABLES, IGNITION, AND OTHER EXPOSED WIRES AND WIRE CONNECTIONS, TO PREVENT CORROSION. WILLIAM D. WYATT, doing business as Wyatt Manufacturing Co., Pharr, Tex.
Filed September 30, 1933. Serial No. 342,055. PUBLISHED DECEMBER 5, 1933. Class 6.

310,506. CHEMICAL DRIERS FOR USE IN THE INDUSTRIAL ARTS. THE HARSHAW CHEMICAL COMPANY, Elyria, Ohio.
Filed October 2, 1933. Serial No. 342,074. PUBLISHED DECEMBER 5, 1933. Class 6.

310,507. BEVERAGE-FORMING, HERBAL PREPARATIONS OR MEDICINAL TEAS ADAPTED FOR INFUSION WITH WATER, RECOMMENDED FOR IMPROVING ELIMINATION AND FOR TREATMENT OF OVERWEIGHT AND UNDERWEIGHT IN THE HUMAN SYSTEM. CORRECTO PRODUCTS, INC., Akron, Ohio.
Filed October 2, 1933. Serial No. 342,068. PUBLISHED DECEMBER 12, 1933. Class 6.

310,508. WHISKEY AND/OR OTHER POTABLE DISTILLED SPIRITS. BERNARD M. MARKSTEIN, doing business as Ohio Brokerage Company, Cincinnati, Ohio.
Filed September 29, 1933. Serial No. 342,010. PUBLISHED DECEMBER 12, 1933. Class 49.

310,509. LINIMENTS. IERSEL HARTSTEIN, Houston, Tex.
Filed September 29, 1933. Serial No. 342,007. PUBLISHED DECEMBER 12, 1933. Class 6.

310,510. WHISKEY, BRANDY, GIN, AND RUM. FOUST DISTILLING COMPANY, INC., Glen Rock, Pa.
Filed September 28, 1933. Serial No. 341,956. PUBLISHED DECEMBER 12, 1933. Class 49.

310,511. LIQUID RADIATOR STOP LEAK. W. T. GRANT COMPANY, New York, N. Y.
Filed September 28, 1933. Serial No. 341,958. PUBLISHED DECEMBER 12, 1933. Class 6.

310,512. SEDATIVE FOR REDUCING OR REGULATING CEREBRAL, NERVOUS, MUSCULAR, AND GLANDULAR FUNCTIONS. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed September 28, 1933. Serial No. 341,986. PUBLISHED DECEMBER 12, 1933. Class 6.

310,513. MEDICINAL PREPARATION FOR USE IN REMOVING SUPERFLUOUS FLESH AND AS A LAXATIVE. ALBERT N. WILKINSON, doing business as Dee-Duct-Teen Co., Baltimore, Md.
Filed September 27, 1933. Serial No. 341,939. PUBLISHED DECEMBER 12, 1933. Class 6.

310,514. COSMETIC PREPARATIONS. DREXELL PRODUCTS CORP., Brooklyn, N. Y.
Filed September 28, 1933. Serial No. 341,944. PUBLISHED DECEMBER 19, 1933. Class 6.

310,515. HAND LOTION. THE WELNEY COMPANY, New York, N. Y.
Filed October 9, 1933. Serial No. 342,293. PUBLISHED DECEMBER 5, 1933. Class 6.

310,516. MEDICINAL PREPARATION FOR TREATMENT OF RICKETS WHICH IS USED IN CASES INDICATING DIETARY CALCIUM DEFICIENCY. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed October 10, 1933. Serial No. 342,307. PUBLISHED DECEMBER 5, 1933. Class 6.

310,517. ELIXIR OF GLYCERO PHOSPHORIC COMPOUND—NAMELY, A TONIC, A STIMULANT, AND AN APPETIZER. JOHN WYETH AND BROTHER INCORPORATED, Philadelphia, Pa.
Filed October 9, 1933. Serial No. 342,302. PUBLISHED DECEMBER 19, 1933. Class 6.

310,518. NEURASTHENIC TONIC AND STIMULANT. JOHN WYETH AND BROTHER INCORPORATED, Philadelphia, Pa.
Filed October 9, 1933. Serial No. 342,299. PUBLISHED DECEMBER 19, 1933. Class 6.

310,519. FINGER-NAIL POLISH, FINGER-NAIL POLISH REMOVER IN FLUID FORM, AND HAND LOTION. MARION LAMBERT, INC., St. Louis, Mo.
Filed October 7, 1933. Serial No. 342,224. PUBLISHED DECEMBER 12, 1933. Class 6.

310,520. WHISKY. GALLAGHER & BURTON, INC., Philadelphia, Pa.
Filed October 7, 1933. Serial No. 342,221. PUBLISHED DECEMBER 12, 1933. Class 49.

310,521. WHISKEY. HERMAN KRAUS, New York, N. Y.
Filed October 11, 1933. Serial No. 342,354. PUBLISHED DECEMBER 19, 1933. Class 49.

310,522. BEER. PILSNER ACTIEN-BRAUEREIEN, doing business as Pilsen Breweries Co. Ltd., Pilsen, Czechoslovakia.
Filed October 9, 1933. Serial No. 342,286. PUBLISHED DECEMBER 19, 1933. Class 48.

310,523. GIN. BENJAMIN P. LILIENTHAL, San Francisco, Calif.
Filed October 9, 1933. Serial No. 342,280. PUBLISHED DECEMBER 19, 1933. Class 49.

310,524. FACE POWDER, ROUGE, LIPSTICK, TOILET WATER, PERFUME, AND HAIR LOTION. MANIKIN PRODUCTS, INC., New York, N. Y.
Filed October 7, 1933. Serial No. 342,232. PUBLISHED DECEMBER 5, 1933. Class 6.

310,525. ANTISEPTIC AND GERMICIDAL PRODUCT APPLIED LOCALLY AND EXTERNALLY FOR TREATMENT OF INFECTION. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed October 6, 1933. Serial No. 342,195. PUBLISHED DECEMBER 5, 1933. Class 6.

310,526. MEDICINAL PREPARATION FOR THE TREATMENT OF INFECTIONS, IRRITATIONS, AND DISEASES OF THE SKIN. FRED R. CULVER, doing business as Niagara Remedies, Niagara Falls, N. Y.
Filed October 6, 1933. Serial No. 342,177. PUBLISHED DECEMBER 5, 1933. Class 6.

310,527. MEDICINAL PREPARATION FOR USE IN GLANDULAR DEFICIENCIES. SCHERING CORPORATION, New York, N. Y.
Filed October 5, 1933. Serial No. 342,166. PUBLISHED DECEMBER 5, 1933. Class 6.

310,528. MEN'S DRESS AND NEGLIGEE SHIRTS. WILLIAM J. WILKIN, doing business as Hi Hat, San Francisco, Calif.
Filed October 2, 1933. Serial No. 342,093. PUBLISHED DECEMBER 19, 1933. Class 39.

310,529. WHISKIES. W. L. WELLER & SONS, Louisville, Ky.
Filed October 2, 1933. Serial No. 342,090. PUBLISHED DECEMBER 12, 1933. Class 49.

310,530. LADIES' COATS. LOU SCHNEIDER, INC., New York, N. Y.
Filed October 6, 1933. Serial No. 342,200. PUBLISHED DECEMBER 12, 1933. Class 39.

310,531. SHAMPOOS AND HAIR TONICS. MAURICE MARKS, New York, N. Y.
Filed March 23, 1933. Serial No. 336,012. PUBLISHED DECEMBER 19, 1933. Class 6.

310,532. SURGICAL OPERATING LAMPS AND REFLECTORS. SCIALYTIC CORPORATION OF AMERICA, Philadelphia, Pa.
Filed March 27, 1933. Serial No. 336,140. PUBLISHED JUNE 6, 1933. Class 44.

310,533. COMPOUNDED LATEX SOLD AS AN ADHESIVE. AMERICAN CURATEX CORPORATION, Quincy, Mass.
Filed March 29, 1933. Serial No. 336,169. PUBLISHED DECEMBER 19, 1933. Class 5.

310,534. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FOR CARBONATED AND STILL TABLE WATER. CHRIS ANDERSON, doing business as Minneapolis Bottling Co., Minneapolis, Minn.
Filed November 1, 1933. Serial No. 343,110. PUBLISHED DECEMBER 19, 1933. Class 45.

310,535. WRENCHES, ADJUSTABLE HOLLOW AUGERS, BUTCHER KNIVES, FOOD CHOPPERS, HAIR CLIPPERS, HAND SPRAYERS, RIVETING MACHINES, DIE CAST WHITE METAL PULLEYS, TYPEWRITERS AND PRINTING PRESSES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 31, 1933. Serial No. 336,301. PUBLISHED MAY 23, 1933. Class 28.

310,536. COTTON PIECE GOODS. WILLIAM LIND, doing business as William Lind Co., New York, N. Y.
Filed April 7, 1933. Serial No. 336,585. PUBLISHED DECEMBER 5, 1933. Class 42.

310,537. WHISKY. GEORGE BENZ SONS, INC., St. Paul, Minn.
Filed October 30, 1933. Serial No. 343,023. PUBLISHED DECEMBER 19, 1933. Class 49.

310,538. SCOTCH WHISKY. LOW, ROBERTSON & CO. LIMITED, Leith, Scotland.
Filed October 31, 1933. Serial No. 343,082. PUBLISHED DECEMBER 19, 1933. Class 49.

310,539. WHISKEY AND BRANDY. ZUCKER, STEIN & CO., Newark, N. J.
Filed October 31, 1933. Serial No. 343,101. PUBLISHED DECEMBER 12, 1933. Class 49.

310,540. BRANDY. LAIRD & COMPANY, Scobeyville and Eatontown, N. J.
Filed October 31, 1933. Serial No. 343,076. PUBLISHED DECEMBER 12, 1933. Class 49.

310,541. SWEATERS, SKI-SUITS, SWEATER SUITS AND WINDBREAKERS MADE OF WOVEN AND KNITTED MATERIALS AND OF LEATHER AND IMITATION LEATHER FOR MEN, WOMEN, AND CHILDREN. REVERE KNITTING MILLS, INC., Malden, Mass.
Filed October 30, 1933. Serial No. 343,048. PUBLISHED DECEMBER 12, 1933. Class 39.

310,542. SAND PAPER. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed October 31, 1933. Serial No. 343,059. PUBLISHED DECEMBER 19, 1933. Class 4.

310,543. MALT BEVERAGES HAVING AN ALCOHOLIC CONTENT NOT IN EXCESS OF THAT PERMITTED BY LAW. ANACONDA BREWING CO., Anaconda, Mont.
Filed November 1, 1933. Serial No. 343,111. PUBLISHED DECEMBER 19, 1933. Class 49

310,544. HOSIERY. W. T. GRANT COMPANY, New York, N. Y.
Filed November 1, 1933. Serial No. 343,119. PUBLISHED DECEMBER 12, 1933. Class 39.

310,545. CREAMS AND LOTIONS. A. S. HINDS CO., Bloomfield, N. J.
Filed November 1, 1933. Serial No. 343,120. PUBLISHED DECEMBER 19, 1933. Class 6.

310,546. WHISKEY, GIN, DISTILLED ALCOHOLIC CORDIALS, AND OTHER POTABLE DISTILLED LIQUORS. W. SHEINKER & SON, INC., New York, N. Y.
Filed April 11, 1933. Serial No. 336,665. PUBLISHED DECEMBER 12, 1933. Class 49.

310,547. ANTISEPTIC PREPARATION. WALTER G. BROWN, doing business as National Research Laboratories, Los Angeles, Calif.
Filed April 19, 1933. Serial No. 336,925. PUBLISHED DECEMBER 12, 1933. Class 6.

310,548. MALT BEVERAGES OF LEGAL ALCOHOLIC CONTENT. AMERICAN BREWERY, INCORPORATED, Baltimore, Md.
Filed November 9, 1933. Serial No. 343,430. PUBLISHED DECEMBER 19, 1933. Class 48.

310,549. COTTON PIECE GOODS. WILLIAM LIND, doing business as William Lind Co., New York, N. Y.
Filed April 7, 1933. Serial No. 336,536. PUBLISHED DECEMBER 5, 1933. Class 42.

310,550. FISH LINES. CORTLAND LINE COMPANY, INCORPORATED, Cortland, N. Y.
Filed November 9, 1933. Serial No. 343,488. PUBLISHED DECEMBER 19, 1933. Class 22.

310,551. GOLF CLUBS. THE CRAWFORD, MCGREGOR AND CANBY COMPANY, Dayton, Ohio.
Filed November 10, 1933. Serial No. 343,494. PUBLISHED DECEMBER 19, 1933. Class 22.

310,552. PREPARATION USED FOR A BILIARY STIMULANT, PHYSIOLOGICAL LAXATIVE, AND CHOLAGOGUE. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa.
Filed October 12, 1933. Serial No. 342,417. PUBLISHED DECEMBER 12, 1933. Class 6.

310,553. SEDATIVE EXPECTORANT. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa.
Filed October 12, 1933. Serial No. 342,416. PUBLISHED DECEMBER 12, 1933. Class 6.

310,554. WHISKEY. JUILLARD, INCORPORATED, San Francisco, Calif.
Filed October 13, 1933. Serial No. 342,435. PUBLISHED DECEMBER 12, 1933. Class 49.

310,555. IODINE OINTMENT. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa.
Filed October 12, 1933. Serial No. 342,418. PUBLISHED DECEMBER 12, 1933. Class 6.

310,556. COSMETIC PREPARATION IN LIQUID AND CREAM FORM FOR USE ON SKIN AND SCALP. MARION RASMUS, doing business as The Cambridge Laboratories, Eggertsville, N. Y.
Filed October 13, 1933. Serial No. 342,452. PUBLISHED DECEMBER 12, 1933. Class 6.

310,557. CATHARTIC MEDICINES. MARION RASMUS, doing business as The Cambridge Laboratories, Eggertsville, N. Y.
Filed October 13, 1933. Serial No. 342,451. PUBLISHED DECEMBER 12, 1933. Class 6.

310,558. BRANDY, GIN, WHISKEY, AND OTHER POTABLE DISTILLED SPIRITS. UNITED DISTILLERS CORPORATION, New York, N. Y.
Filed October 14, 1933. Serial No. 342,499. PUBLISHED DECEMBER 12, 1933. Class 49.

310,559. PILLOWS AND MATTRESSES. THE SIMON MATTRESS MANUFACTURING COMPANY, San Francisco, Calif.
Filed October 13 1933. Serial No. 342,458. PUBLISHED DECEMBER 19, 1933. Class 32.

310,560. PAJAMAS, DRESS AND NEGLIGEE SHIRTS, NIGHTSHIRTS, AND UNDERWEAR FOR MEN, WOMEN, AND BOYS. KNOTHE BROTHERS CO., INC., Baltimore, Md., and New York, N. Y.
Filed October 16, 1933. Serial No. 342,538. PUBLISHED DECEMBER 5, 1933. Class 39.

310,561. PAJAMAS, DRESS AND NEGLIGEE SHIRTS, NIGHTSHIRTS AND UNDERWEAR FOR MEN, WOMEN, AND BOYS. KNOTHE BROTHERS CO., INC., Baltimore, Md., and New York, N. Y.
Filed October 16, 1933. Serial No. 342,537. PUBLISHED DECEMBER 19, 1933. Class 39.

310,562. BRANDY, GIN, WHISKEY, AND OTHER POTABLE DISTILLED SPIRITS. UNITED DISTILLERS CORPORATION, New York, N. Y.
Filed October 14, 1933. Serial No. 342,502. PUBLISHED DECEMBER 12, 1933. Class 49.

310,563. MEN'S, WOMEN'S, AND CHILDREN'S KNITTED AND WOVEN BATHING SUITS IN ONE, TWO, AND THREE PIECE GARMENTS; JERSEYS, SWEATERS. A. M. WEBB & CO., INC., New York, N. Y.
Filed October 16, 1933. Serial No. 342,558. PUBLISHED DECEMBER 19, 1933. Class 39.

310,564. PAJAMAS, NEGLIGEE SHIRTS, NIGHTSHIRTS, AND UNDERWEAR FOR MEN, WOMEN, AND BOYS. KNOTHE BROTHERS CO., INC., Baltimore, Md., and New York, N. Y.
Filed October 16, 1933. Serial No. 342,539. PUBLISHED DECEMBER 5, 1933. Class 39.

310,565. GIN. BOHEMIAN DISTRIBUTING CO. LTD., Los Angeles, Calif.
Filed October 17, 1933. Serial No. 342,571. PUBLISHED DECEMBER 12, 1933. Class 49.

310,566. MECHANICALLY REFRIGERATED WATER COOLERS. HARVEY C. WHEELER, doing business as United Water Cooler Service, Boston, Mass.
Filed October 16, 1933. Serial No. 342,560. PUBLISHED DECEMBER 19, 1933. Class 31.

310,567. WHISKEY, BRANDY, GIN, AND OTHER POTABLE DISTILLED SPIRITS. JOS. S. FINCH & COMPANY, New York, N. Y.
Filed October 17, 1933. Serial No. 342,582. PUBLISHED NOVEMBER 28, 1933. Class 49.

310,568. WHISKY. BOHEMIAN DISTRIBUTING CO. LTD., Los Angeles, Calif.
Filed October 17, 1933. Serial No. 342,573. PUBLISHED DECEMBER 12, 1933. Class 49.

310,569. LAXATIVE. JACOB SUGARMAN, doing business as Essenes Laboratories, Union City, N. J., and New York, N. Y.
Filed July 24, 1933. Serial No. 340,101. PUBLISHED DECEMBER 12, 1933. Class 6.

310,570. FLAVORING AGENT FOR FOOD-FLAVORING PURPOSES. ARTHUR HARRY FERBER, doing business as The Ferbo Company, Bayonne, N. J.
Filed July 20, 1933. Serial No. 339,934. PUBLISHED DECEMBER 12, 1933. Class 46.

310,571. CRUSHED LIMESTOCK USED AS MINERAL FOR POULTRY AND STOCK. EGGONITE PRODUCTS COMPANY, Portland, Oreg.
Filed July 24, 1933. Serial No. 340,037. PUBLISHED DECEMBER 12, 1933. Class 6.

310,572. HADDOCK AND COD. BAY STATE FISHING COMPANY, Boston, Mass.
Filed June 24, 1933. Serial No. 339,176. PUBLISHED DECEMBER 19, 1933. Class 46.

310,573. HADDOCK AND COD. BAY STATE FISHING COMPANY, Boston, Mass.
Filed June 24, 1933. Serial No. 339,177. PUBLISHED DECEMBER 19, 1933. Class 46.

310,574. COKE. BUFFALO ANTHRACITE COAL CO. INC., Brooklyn, N. Y.
Filed June 17, 1933. Serial No. 338,925. PUBLISHED DECEMBER 19, 1933. Class 1.

310,575. COFFEE CONCENTRATE. JOSHUA ISRAEL, Ventnor City, N. J., assignor to Lurient Food Products Incorporated, New York, N. Y., a Corporation of New York.
Filed June 21, 1933. Serial No. 339,075. PUBLISHED DECEMBER 19, 1933. Class 46.

310,576. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. JACOB RUPPERT, New York, N. Y.
Filed June 13, 1933. Serial No. 338,827. PUBLISHED DECEMBER 19, 1933. Class 48.

310,577. CONTAINERS OF PAPER, CELLULOSE, AND ANALOGOUS SHEET MATERIAL — NAMELY, BOXES, CARTONS, CUPS, AND DISHES. YUM-KONE CORPORATION, Toledo, Ohio.
Filed June 14, 1933. Serial No. 338,856. PUBLISHED DECEMBER 19, 1933. Class 2.

310,578. PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT. CONSOLIDATED GUARDIAN CHEMICAL COMPANY, Phoenix, Ariz.
Filed May 24, 1933. Serial No. 338,183. PUBLISHED DECEMBER 12, 1933. Class 6.

310,579. HAIR TONIC, BAY RUM, EAU DE QUININE, MINERAL OIL, SHAMPOO, COLD CREAM, NAIL POLISH, AND PREPARATIONS FOR USE AFTER SHAVING. SAM HAGLER, doing business as Kuresema Chemical Co., New York, N. Y.
Filed May 24, 1933. Serial No. 338,187. PUBLISHED DECEMBER 12, 1933. Class 6.

310,580. BAY RUM AND ANTISEPTIC MOUTH WASH. CHATHAM COSMETICS & DRUGS, INCORPORATED, New York, N. Y.
Filed May 3, 1933. Serial No. 337,417. PUBLISHED DECEMBER 12, 1933. Class 6.

310,581. CIGARS. BERRIMAN BROS., INC., Tampa, Fla.
Filed May 5, 1933. Serial No. 337,504. PUBLISHED JUNE 13, 1933. Class 17.

310,582. TONIC PREPARATION FOR PROSTATIC DISORDERS. FORD HOPKINS CO., doing business as North American Pharmacal Co., Chicago, Ill.
Filed April 28, 1933. Serial No. 337,253. PUBLISHED JUNE 6, 1933. Class 6.

310,583. HOUSEHOLD AND STORE REFRIGERATORS FOR THE PRESERVATION OF FOODSTUFFS. BOHN REFRIGERATOR COMPANY, St. Paul, Minn.
Filed May 1, 1933. Serial No. 337,328. PUBLISHED DECEMBER 19, 1933. Class 31.

310,584. SHEETS AND PILLOW CASES. SCHAFRAN & FINKEL, New York, N. Y.
Filed April 20, 1933. Serial No. 336,996. PUBLISHED DECEMBER 12, 1933. Class 42.

310,585. MEAT TENDERERS, BUTCHER KNIVES, AND CLEAVERS. FOSTER BROS. & CHATILLON CO., Fulton, N. Y.
Filed April 26, 1933. Serial No. 337,181. PUBLISHED DECEMBER 19, 1933. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

310,586. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) NIEBNER BROTHERS, INC., Rochester, N. Y. Filed June 19, 1933. Serial No. 338,989.

Dr. Nebb's

For Rubber Water Bottles, Rubber Fountain Syringes and Combination Bottle and Syringe.
Claims use since Jan. 2, 1933.

310,587. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) GEMLOID CORPORATION, New York, N. Y. Filed May 29, 1933. Serial No. 338,391.

GEMLIKE

For Sheets of Laminated Acetate and Pyroxylin Plastic Formed as One Product, the Surface of Which is Decorated with Crystalline Design Effects.
Claims use since Feb. 1, 1931.

310,588. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PRUNE & APRICOT GROWERS ASSOCIATION, San Jose, Calif. Filed June 7, 1933. Serial No. 338,640.

FREE FLO PAK

E-Z TO SAK

For Dried Fruits.
Claims use since Dec. 13, 1932.

310,589. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KLEENMOR MFG. CO., Auburn, Maine. Filed Apr. 27, 1933. Serial No. 337,226.

KLEENMOR

For Cleaning Compound for General Household and Laundry Use.
Claims use since Jan. 18, 1933.

310,590. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PECAN KRISP COMPANY, INC., Dallas, Tex. Filed May 15, 1933. Serial No. 337,861.

PECAN KRISP BAR

For Ice Cream Bars Coated with Edible Material.
Claims use since Dec. 8, 1932.

310,591. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) RHEINISCHE GUMMI- UND CELLULOID-FABRIK, Mannheim, Germany. Filed Feb. 28, 1933. Serial No. 335,368.

BLACK BEAUTY

For Combs not Made of Precious Metal.
Claims use since Sept. 10, 1932.

310,592. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) I. SACKS & SONS, New York, N. Y. Filed Apr. 8, 1933. Serial No. 336,578.

"NON-SLIP"

For Piece Goods—Namely, Silk, Satin, and Silk and Cotton Fabrics.
Claims use since 1932.

310,593. (CLASS 39. CLOTHING.) FASHION PARK ASSOCIATES, INC., Rochester, N. Y., assignor to Fashion Park Manufacturing Corporation, a corporation of New York. Filed Dec. 28, 1932. Serial No. 333,427.

VENT-HIP

For Coats, Vests, Pants, Overcoats, Knickers, and Sport Trousers for Men and Boys.
Claims use since Nov. 11, 1932.

310,594. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SPECIALTY GUILD, INC., Boston, Mass. Filed Jan. 25, 1933. Serial No. 834,828.

LYFLAT

For Chemical Photo-Print Conditioner.
Claims use since Dec. 29, 1932.

310,595. (CLASS 39. CLOTHING.) NIRENBERG & SALZMAN, INC., New York, N. Y. Filed Dec. 13, 1932. Serial No. 333,042.

ENGLISH DRAPE

For Men's and Boys' Negligee, Dress, Sport, and Work Shirts; and Athletic Goods—Namely, Athletic Shirts.
Claims use since Aug. 1, 1932.

310,596. (CLASS 39. CLOTHING.) HANES HOSIERY MILLS CO., Winston-Salem, N. C. Filed Dec. 16, 1932. Serial No. 333,123.

STRETCH-EE TOP

For Hosiery.
Claims use since Nov. 28, 1932.

310,597. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JOS. S. FINCH & COMPANY, Schenley Pa., and New York, N. Y. Filed Jan. 22, 1934. Serial No. 346,355.

SAM CRADDOCK

For Whiskey and Other Potable Distilled Spirits.
Claims use since Dec. 13, 1932.

310,598. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EGIDIO GALBANI, Milan, Italy. Filed Oct. 25, 1932. Serial No. 331,546.

"DOLCE VERDE,,

For Cream, Butter, and Cheese.
Claims use since Jan. 11, 1932.

310,599. (CLASS 47. WINES.) SCHENLEY WINE & SPIRIT IMPORT CORPORATION, New York, N. Y. Filed Dec. 13, 1933. Serial No. 344,921.

GONZALEZ, BYASS & Cª.
JEREZ
NECTAR

For Sherry and Port.
Claims use since 1900.

310,600. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NESTLE-LEMUR COMPANY, New York, N. Y. Filed Jan. 12, 1934. Serial No. 345,972.

Nestle

For Toilet Preparations, Preparations for Use in the Treatment of the Hair, Etc.
Claims use since 1916.

310,601. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM EHLERS, doing business as Schrader & Ehlers, New York, N. Y. Filed Nov. 23, 1933. Serial No. 344,049.

UP-TILT

For Combs of Hard Rubber and Combinations Thereof.
Claims use since Nov. 12, 1932.

310,602. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HALFHILL COMPANY, LTD., Los Angeles, Calif. Filed Nov. 24, 1933. Serial No. 344,089.

HALFHILL'S

For Canned Fish.
Claims use since 1915.

310,603. (CLASS 39. CLOTHING.) EIFERMAN & FRANK, Philadelphia, Pa. Filed Oct. 17, 1933. Serial No. 342,586.

True-Shade

For Men's and Young Men's Overcoats and Suits.
Claims use since March, 1932.

310,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE STANDARD, INCORPORATED, Chicago, Ill. Filed Nov. 10, 1933. Serial No. 343,524.

PALMER

For Canned Shellfish, Canned Fruits, Canned Vegetables, Canned Fish, Fruit and Berry Preserves, Molasses, Pickles, Condiments—Namely, Pepper Sauce, Worcestershire Sauce, Chop Suey Sauce, Horseradish, and Catsup; Flavoring-Extracts for Foods, Canned Milk and Dried Fruits.
Claims use since Sept. 1, 1924.

310,605. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HAMMOND PAINT & CHEMICAL CO. INC., Beacon, N. Y. Filed Aug. 30, 1933. Serial No. 341,167.

ANT GAS

For Insecticides.
Claims use since Sept. 1, 1932.

310,606. (CLASS 39. CLOTHING.) ALDEN MCLELLAN, 3d, doing business as Meridian Knitting Mills, Meridian, Miss. Filed Sept. 9, 1933. Serial No. 341,460.

MY-T-TUFF

For Men's, Women's, and Children's Hosiery.
Claims use since 1930.

310,607. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed June 9, 1933. Serial No. 338,703.

DUBL-RESPONSE

For Regulators Designed for Controlling Temperature, Pressure, Fluid-Flow, and Liquid Level.
Claims use since Oct. 25, 1932.

TRADE-MARK REGISTRATIONS RENEWED

39,768. SALVES, LINIMENTS, TONICS, AND BOWEL REGULATING MEDICINES. Registered February 10, 1903. THE DR. BLAIR MEDICAL COMPANY. Renewed February 10, 1933, to The W. T. Raleigh Company, Freeport, Ill., a corporation of Illinois, by two changes of name.

41,721. FLOWERING PIPS. Registered December 22, 1903. STUMPF & WALTER CO., New York, N. Y., a corporation of New Jersey. Renewed December 22, 1933.

41,857. DYES. Registered January 12, 1904. FARBWERKE-VORMALS, MEISTER, LUCIUS & BRÜNING, Höchst-on-the-Main, Germany. Renewed January 12, 1934, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

41,901. MEDICINE FOR CERTAIN NAMED DISEASES. Registered January 19, 1904. CHARLES ZIFFER, Berlin, Germany. Renewed January 19, 1934, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

42,283. CERTAIN NAMED KNITTING MACHINE APPLIANCES. Registered March 22, 1904. ERNST BECKERT. Renewed March 22, 1934, to Ernst Beckert Nadelfabrik, Kommanditgesellschaft, Chemnitz, Germany, a corporation of Germany, successor.

94,393. OARS, SWEEPS, AND SCULLS. Registered December 2, 1913. NEW YORK BOAT OAR COMPANY, East Orange, N. J., and New York, N. Y. Renewed December 2, 1933, to New York Boat Oar Co., Inc., New York, N. Y., a corporation of New York, successor.

94,725. FLANNEL AND WOOLEN PIECE GOODS. Registered December 30, 1913. DANIEL W. FARNSWORTH, Montclair, N. J., and New York, N. Y. Renewed December 30, 1933.

94,780. AN ANTISEPTIC POWDER. Registered December 30, 1913. THE ANGELO-AMERICAN PHARMACEUTICAL COMPANY LTD., Croydon, England, and New York, N. Y. Renewed December 30, 1933, to The Huxley Laboratories, Inc., New York, N. Y., a corporation of New York, assignee.

94,807. WIRE STRINGS FOR MUSICAL INSTRUMENTS. (COMMONLY CALLED MUSIC-WIRE). Registered January 6, 1914. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed January 6, 1934, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Koln-Mulheim, Germany, a corporation of Germany.

94,808. CERTAIN ARTICLES COMPOSED OF CERTAIN NAMED SUBSTANCES. Registered January 6, 1914. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed January 6, 1934, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Koln-Mulheim, Germany, a corporation of Germany.

94,809. CERTAIN ARTICLES COMPOSED OF CERTAIN NAMED SUBSTANCES. Registered January 6, 1914. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed January 6, 1934, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Koln-Mulheim, Germany, a corporation of Germany.

94,819. A PREPARATION FOR REDUCING INFLAMMATION OF THE SKIN AND PROMOTING GRANULATIONS. Registered January 6, 1914. FARBWERKE VORM. MEISTER LUCIUS & BRÜNING, Höchst-on-the-Main, Germany. Renewed January 6, 1934, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

94,820. ANTISEPTIC CHEMICAL PRESERVATIVE, SANITARY PAINTS OR DRESSING FOR CERTAIN MATERIALS. Registered January 6, 1914. FARBWERKE VORM. MEISTER LUCIUS BRÜNING, Höchst-on-the-Main, Germany. Renewed January 6, 1934, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

94,841. BATH, SHAVING, TOILET, AND PAINT BRUSHES. Registered January 6, 1914. UNITED BRUSH MANUFACTORIES, New York, N. Y., a corporation of New York. Renewed January 6, 1934.

94,879. ELECTRIC-LAMP SOCKETS. Registered January 13, 1914. THE BRYANT ELECTRIC COMPANY, Bridgeport, Conn., a corporation of Connecticut. Renewed January 13, 1934.

94,891. SELF-RISING WHEAT-FLOUR. Registered January 13, 1914. THE DUNLOP MILLING COMPANY, Clarksville, Tenn. Renewed January 13, 1934, to Dunlop Milling Company, Inc., New York, N. Y., a corporation of Tennessee, assignee.

94,918. POPCORN AND CANDIES. Registered January 13, 1914. LOOSE-WILES BISCUIT COMPANY, Kansas City, Mo., a corporation of Missouri. Renewed January 13, 1934.

94,933. FLAVORING MATERIAL FOR FOODS. Registered January 13, 1914. POSTUM CEREAL COMPANY, LIMITED, Battle Creek, Mich. Renewed January 13, 1934, to Postum Company, Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

94,962. PAINT, SHAVING, BATH, AND VARNISH BRUSHES. Registered January 13, 1914. UNITED BRUSH MANUFACTORIES, New York, N. Y., a corporation of New York. Renewed January 13, 1934.

94,997. CERTAIN COMPOUNDS IN CERTAIN FORMS USED AS DISINFECTANTS. Registered January 20, 1914. KALLE & Co., AKTIENGESELLSCHAFT, Biebrich-on-the-Rhine, Germany. Renewed January 20, 1934, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

95,007. MEDICINAL NERVE-SEDATIVE PREPARATIONS. Registered January 20, 1914. DR. NEUMANN & Co. CHEMISCHE FABRIK G. M. B. H., Charlottenburg, Germany. Renewed January 20, 1934, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

95,085. CERTAIN VEGETABLE SUBSTANCES, ALONE OR MIXED WITH CERTAIN OTHER SUBSTANCES. Registered February 3, 1914. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed February 3, 1934 to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Koln-Mulheim, Germany, a corporation of Germany.

95,086. WIRE STRINGS FOR MUSCIAL INSTRUMENTS. Registered February 3, 1914. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed February 3, 1934, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Koln-Mulheim, Germany, a corporation of Germany.

95,251. CORDAGE, BEING CORDS AND THREADS COMPOSED OF CERTAIN NAMED MATERIALS. Registered February 8, 1914. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed February 3, 1934, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Koln-Mulheim, Germany, a corporation of Germany.

95,347. FLAVORING EXTRACT FOR NON-ALCOHOLIC BEVERAGES. Registered February 10, 1914. POSTUM CEREAL CO., LIMITED, Battle Creek, Mich. Renewed February 10, 1934, to Postum Company, Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

95,449. BISCUITS, CAKES, AND COOKIES. Registered February 17, 1914. LOOSE-WILES BISCUIT COMPANY, Boston, Mass., a corporation of Maine. Renewed February 17, 1934.

95,568. SALES-BOOKS. Registered February 24, 1914. THE SHELBY PRINTING COMPANY. Renewed February 24, 1934, to The Shelby Salesbook Company, Shelby, Ohio, a corporation of Ohio, by change of name.

95,681. CERTAIN NAMED MATERIALS FOR ARTIFICIAL-STONE WORK. Registered March 3, 1914. TERRANOVA-INDUSTRIE C. A. KAPFERER & Co., Freihung, Germany, a firm. Renewed March 3, 1934.

95,705. SELF-RISING WHEAT-FLOUR. Registered March 3, 1914. THE DAVIS MILLING COMPANY, St. Joseph, Mo. Renewed March 3, 1934, to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey, assignee by mesne assignments.

95,808. CERTAIN NAMED WIRE GOODS, PLUMBING SUPPLIES, CHAIN CABLES, AND LIKE HARDWARE. Registered March 24, 1914. FELTEN & GUILLEAUME CARLSWERK ACTIEN-GESELLSCHAFT, Mülheim-on-the-Rhine, Germany. Renewed March 24, 1934, to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Koln-Mulheim, Germany, a corporation of Germany.

95,919. OVERCOATS, COATS, VESTS, AND TROUSERS. Registered March 24, 1914. B. KUPPENHEIMER & COMPANY. Renewed March 24, 1934, to B. Kuppenheimer & Co., Inc., Chicago, Ill., a corporation of Illinois, assignee.

96,061. HARD, SOFT, TOILET, LAUNDRY, DOG, OR ANIMAL SOAP AND SOAP POWDER. Registered March 31, 1914. "SANITAS" CO. (U. S. A.), as assignee of The "Sanitas" Company, Limited, London, England, and New York, N. Y. Renewed March 31, 1934, to The "Sanitas" Company, Limited, London, England, a corporation of Great Britain, assignee by mesne assignments.

96,269. CERTAIN PARTS FOR CERTAIN AGRICULTURAL IMPLEMENTS. Registered April 14, 1914. GALESBURG COULTER-DISC CO., Galesburg, Ill. Renewed April 14, 1934, to Ingersoll Steel and Disc Co., Chicago, Ill., a corporation of Illinois, by change of name.

96,389. PRESERVED FISH PRODUCTS. Registered April 21, 1914. RAYMOND BARVIER. Renewed April 21, 1934, to Vita Food Products Incorporated, New York, N. Y., a corporation of New York, assignee by mesne assignments.

96,425. A NASAL DOUCHE. Registered April 21, 1914. KRESS & OWEN COMPANY, New York, N. Y., a corporation of New York. Renewed April 21, 1934.

96,465. FACE-POWDER, TOILET POWDER, AND TALCUM POWDER. Registered April 21, 1914. HENRY TETLOW CO., as assignee of Joseph Tetlow. Renewed April 21, 1934, to Henry Tetlow Company, Philadelphia, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

96,547. ARTISTS' COLORS. Registered April 21, 1914. TALENS & SON. Renewed April 21, 1934, to Talens & Son, Inc., Irvington, N. J., a corporation of New Jersey, assignee.

96,563. SLIPPERS AND SLIPPER-SOLES. Registered April 21, 1914. BICKFORD & SWEET. Renewed April 21, 1934, to Wiley-Bickford-Sweet Corporation, Worcester, Mass., a corporation of Massachusetts, assignee by mesne assignments.

97,041. LEATHER AND CANVAS BOOTS, SHOES, AND SLIPPERS, AND CANVAS SHOES WITH RUBBER SOLES. Registered May 19, 1914. COES & YOUNG CO., Boston, Mass., a corporation of Massachusetts. Renewed May 19, 1934.

97,046. WHEAT-FLOUR. Registered May 19, 1914. EISENMAYER MILLING COMPANY, Springfield, Mo., a corporation of Missouri. Renewed May 19, 1934.

97,058. CERTAIN NAMED FOODS. Registered May 19, 1914. KANSAS CITY WHOLESALE GROCERY COMPANY, Kansas City, Mo., a corporation of Missouri. Renewed May 19, 1934.

97,156. CERTAIN NAMED CITRUS FRUITS. Registered May 19, 1914. JOHN MCCORMICK. Renewed May 19, 1934, to Frank E. McCormick, New York, N. Y., successor.

97,200. COTTON AND PAPER BAGS AND SACKS. Registered May 26, 1914. ARKELL & SMITHS, Canajoharie, N. Y., a corporation of New York. Renewed May 26, 1934.

97,279. RUBBER GLOVES AND RUBBER MITTENS. Registered May 26, 1914. THE SEAMLESS RUBBER COMPANY. Renewed May 26, 1934, to The Seamless Rubber Company, Inc., New Haven, Conn., a corporation of Massachusetts, assignee.

97,326. LUBRICATING-OIL AND ILLUMINATING-OIL. Registered June 2, 1914. GALENA-SIGNAL OIL COMPANY, Franklin, Pa. Renewed June 2, 1934, to Valvoline Oil Company, Edgewater, N. J., and New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

97,331. PACKAGES, CONTAINERS, AND WRAPPERS FOR PROTECTING FOODS. Registered June 2, 1914. KELLOGG TOASTED CORN FLAKE COMPANY. Renewed June 2, 1934, to Kellogg Company, Battle Creek, Mich., a corporation of Delaware, assignee.

97,465. BOND-PAPER, LEDGER-PAPER, AND TYPEWRITER PAPER. Registered June 9, 1914. L. L. BROWN PAPER COMPANY, Adams, Mass., a corporation of Massachusetts. Renewed June 9, 1934.

97,478. MEDICINAL PLASTERS, DIGESTIVE TABLETS, FUMIGATORS, AND TOILET-POWDERS. Registered June 9, 1914. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Renewed June 9, 1934.

97,505. REMEDIES FOR BOWEL AND LIVER DISEASES. Registered June 9, 1914. THE SYDNEY ROSS CO., New York, N. Y. Renewed June 9, 1934, to The Sydney Ross Co., Newark, N. J., a corporation of New Jersey.

97,668. SALT OF DIFFERENT GRADES AND VARIETIES. Registered June 16, 1914. THE BARTON SALT COMPANY, Hutchison, Kans., a corporation of Kansas. Renewed June 16, 1934.

97,672. LUBRICATING-OILS. Registered June 16, 1914. LOUIS BLAUSTEIN. Renewed June 16, 1934, to American Oil Company, Baltimore, Md., a corporation of Maryland, assignee.

97,780. SUGAR. Registered June 16, 1914. PENNSYLVANIA SUGAR COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed June 16, 1934.

97,788. FLUID-PRESSURE GAGES AND FLUID-PRESSURE INDICATORS. Registered June 16, 1914. A. SCHRADER'S SON, INCORPORATED, New York, N. Y., a corporation of New York. Renewed June 16, 1934.

97,800. A MONTHLY PERIODICAL. Registered June 23, 1914. THE AMERICAN MUSEUM OF SAFETY, New York, N. Y., a corporation of New York. Renewed June 23, 1934.

97,825. CERTAIN NAMED CUTLERY AND TOOLS. Registered June 23, 1914. THE COLLINS COMPANY, Collinsville, Conn., a corporation of Connecticut. Renewed June 23, 1934.

97,883. LADIES' KNIT UNDERWEAR. Registered June 23, 1914. THE PARSONS & BAKER CO., Phoenixville, Pa., a corporation of Pennsylvania. Renewed June 23, 1934.

98,057. FIRST-AID CASES. Registered June 30, 1914. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Renewed June 30, 1934.

98,129. SCISSORS AND SHEARS. Registered July 7, 1914. CLAYTON BROS. INC. Renewed July 7, 1934, to The Clayton Manufacturing Co., Bristol, Conn., a corporation of Connecticut, successor.

LABELS

REGISTERED FEBRUARY 27, 1934

43,281.—*Title:* DR. SAMUEL PITCHER'S FORMULA CASTORIA. For a Medicinal Preparation for Infants and Children. ASSOCIATED PERFUMERS, INC., West Haven, Conn. Published August 1, 1933.

43,282.—*Title:* HAPPY DAYS CANDY CORN. For Candy. THERIDES V. BARNARD, doing business as Barnards, Omaha, Nebr. Published May 2, 1933.

43,283.—*Title:* BEECH-NUT FARINA-OATMEAL-WHEAT GERM BLEND CERE-JEL. For Pressure Cooked Farina-Oatmeal-Wheat Germ Blend for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published December 21, 1933.

43,284.—*Title:* BEECH-NUT STRAINED GREEN BEANS. For Strained Green Beans for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published December 15, 1933.

43,285.—*Title:* BEECH-NUT OATMEAL CERE-JEL. For Pressure Cooked Oatmeal for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published January 5, 1934.

43,286.—*Title:* BEECH-NUT FARINA CERE-JEL. For Pressure Cooked Farina for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published December 21, 1933.

43,287.—*Title:* BEECH-NUT STRAINED SPINACH. For Strained Spinach for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published December 4, 1933.

43,288.—*Title:* BEECH-NUT STRAINED BEETS. For Strained Beets for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published January 4, 1934.

43,289.—*Title:* BEECH-NUT STRAINED APRICOTS. For Strained Apricots for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published January 2, 1934.

43,290.—*Title:* BEECH-NUT STRAINED CARROTS. For Strained Carrots for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published December 18, 1933.

43,291.—*Title:* BEECH-NUT STRAINED PRUNES. For Strained Prunes for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published January 12, 1934.

43,292.—*Title:* BEECH-NUT STRAINED PEAS. For Strained Peas for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published December 29, 1933.

43,293.—*Title:* BEECH-NUT STRAINED APPLE SAUCE. For Strained Apple Sauce for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published January 5, 1934.

43,294.—*Title:* BEECH-NUT TOMATO JUICE. For Tomato Juice for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published January 8, 1934.

43,295.—*Title:* BEECH-NUT BABY SOUP. For Soup for Infants, Children, and Special Diets. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published January 12, 1934.

43,296.—*Title:* BUTTER-KRUST. For Bread. BOHEMIAN BAKING COMPANY, Green Bay, Wis. Published December 20, 1933.

43,297.—*Title:* MOVIE MOODS MOST FASCINATING PICTURE GAME. For Picture Games. BERDIE BRINKENHOFF, doing business as Transo-Game Co., New York, N. Y. Published December 11, 1933.

43,298.—*Title:* C AND H MENU SUGAR PURE CANE BAR AND DESSERT. For Sugar. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, LIMITED, San Francisco, Calif. Published January 19, 1934.

43,299.—*Title:* RED ROSE. For Canned Salmon. F. J. COMEAU & Co., Seattle, Wash. Published January 12, 1934.

43,300.—*Title:* D'ARCY'S EVERNU POLISH. For Polish for Bars, Pianos, and Furniture. P. S. D'ARCY, doing business as P. S. D'Arcy & Sons, Brooklyn, N. Y. Published October 21, 1933.

43,301.—*Title:* WHEATIES. For Whole Wheat Flakes. GENERAL MILLS, INC., Minneapolis, Minn. Published October 14, 1933.

43,302.—*Title:* HAHN'S BAVARIAN STYLE BREW. For Lager Beer. PAUL HAHN, doing business as Rockwood Brewery Corp., Rockwood, Pa. Published December 1, 1933.

43,303.—*Title:* SPRINGEEZ QUALITY. For Penetrating Oil. HALSTEAD OIL COMPANY, INC., Cincinnati, Ohio, and Oakland, Calif. Published June 1, 1933.

43,304.—*Title:* RITZI-MISS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 3, 1933.

43,305.—*Title:* SMART SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 6, 1933.

43,306.—*Title:* RAP-UPS. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 4, 1934.

43,307.—*Title:* BARTON'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 4, 1934.

43,308.—*Title:* STUDIO GIRL. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 8, 1934.

43,309.—*Title:* JACK YOUNG. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 8, 1934.

43,310.—*Title:* GROVER LYTE ARCH. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 1, 1933.

43,311.—*Title:* BEAUTIFUL SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 4, 1934.

43,312.—*Title:* THE BUDGET SHOE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 4, 1934.

42,313.—*Title:* NATURE SUN-EZ. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 8, 1934.

43,314.—*Title:* HOTSY TOTSY SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 8, 1934.

43,315.—*Title:* HOLLYWOOD MILK BATH. For Bath Powder. HOLLYWOOD BEAUTY PRODUCTS, INC., Hollywood, Calif. Published July 28, 1933.

43,316.—*Title:* KAIER'S OLD DIAMOND. For Porter. CHAS. D. KAIER CO., INC., Mahanoy City, Pa. Published January 10, 1934.

43,317.—*Title:* KAIER'S OLD DIAMOND. For Ale. CHAS. D. KAIER CO., INC., Mahanoy City, Pa. Published January 10, 1934.

43,318.—*Title:* KELLOGG'S KAFFEE HAG COFFEE. For Decaffeinated Coffee. KELLOGG COMPANY, Battle Creek, Mich. Published November 7, 1933.

43,319.—*Title:* LONDON CLUB. For Dry Gin. MELCHERS DISTILLERIES, LIMITED, Berthierville and Montreal, Quebec, Canada. Published January 2, 1934.

43,320.—*Title:* PATSY FROCKS. For Frocks. NORTHWESTERN MFG. CO., INC., Chicago, Ill. Published August 16, 1933.

43,321.—*Title:* ELKHORN BRAND. For Evaporated Milk. ROBERTS DAIRY COMPANY, Lincoln, Nebr. Published January 19, 1934.

43,322.—*Title:* RESTAL-KNIGHT MATTRESS. For Mattresses. SLEEPER PRODUCTS, INC., Wilmington, Del., and Chicago, Ill. Published January 2, 1934.

43,323.—*Title:* FRITZ BEER. For Beer. J. F. SMITH, doing business as Fritz Brewing Company, Freeport, Ill. Published December 22, 1933.

43,324.—*Title:* CARLTON HOUSE. For Gin. THE GEO. T. STAGG COMPANY, Frankfort, Ky. Published December 9, 1933.

43,325.—*Title:* STANBI. For Tea. STANDARD BRANDS INCORPORATED, New York, N. Y. Published January 10, 1934.

43,326.—*Title:* STANBI. For Tea Balls. STANDARD BRANDS INCORPORATED, New York, N. Y. Published January 10, 1934.

43,327.—*Title:* COSMOS SHAVING CREAM. For Shaving Cream. THE TRADE LABORATORIES INC., Newark, N. J. Published January 15, 1934.

43,328.—*Title:* WARD'S CRACKED WHEAT BREAD. For Bread. WARD BAKING COMPANY, New York, N. Y. Published January 3, 1934.

43,329.—*Title:* HERALD SQUARE DUO-TABLET. For Typewriter Tablets. WHITE & WYCKOFF MFG. CO., Holyoke and Riverside, Holyoke, Mass. Published January 15, 1934.

PRINTS

REGISTERED FEBRUARY 27, 1934

14,604.—*Title:* CHILTON LOX-TOP SAC PEN. For Fountain Pens. THE CHILTON PEN COMPANY, INC., New York and Long Island City, N. Y. Published June 10, 1933.

14,605.—*Title:* LITTLE SPENDTHRIFT OF VITAL ENERGY. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published January 16, 1934.

14,606.—*Title:* FREE TO WOMEN . . . THIS NEW $25,000 SET OF "KITCHEN-TESTED" RECIPES! For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published January 10, 1934.

14,607.—*Title:* GENUCO FUEL OIL. For Fuel Oil. GENERAL UTILITIES CORPORATION, Philadelphia, Pa. Published November 8, 1933.

14,608.—*Title:* HILLS BROS.—ADFORM 136. For Coffee. HILLS BROS., San Francisco, Calif. Published January 13, 1934.

14,609.—*Title:* HILLS BROS.—ADFORM 137. For Coffee. HILLS BROS., San Francisco, Calif. Published January 13, 1934.

14,610.—*Title:* PLANTERS. For Peanuts. PLANTERS NUT & CHOCOLATE COMPANY, Wilkes-Barre, Pa. Published January 15, 1934.

REISSUES

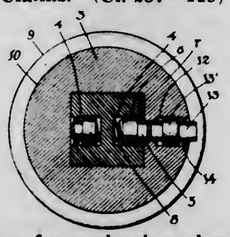
FEBRUARY 27, 1934

19,093
COUPLING FOR SOCKET WRENCHES

Edward M. Pfauser, Milwaukee, Wis., assignor to Blackhawk Manufacturing Company, Milwaukee, Wis.

Original No. 1,896,645, dated February 7, 1933, Serial No. 388,201, August 24, 1929. Application for reissue March 25, 1933. Serial No. 662,819

4 Claims. (Cl. 287—119)



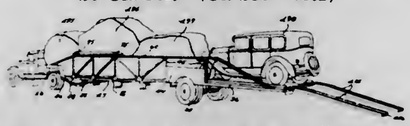
4. A coupling for a shank and wrench head comprising a stud member of non-circular section and a cooperating socket member having a bore mating with said stud, said stud being insertable endwise into the bore of said socket and being adapted to transmit torque by virtue of the non-circular configuration of the cooperating parts of the members, said members having means for preventing endwise separation comprising a locking pin carried by said stud and extending from the side of the stud, there being an opening in the side wall of the socket registering with the position of the locking pin, the wall thickness of the socket member about said opening being great enough to provide a bore for receiving at its inner end the part of the pin which projects from the stud and providing a guide at its outer end for guiding a releasing pin, said stud having a transverse recess in which recess said pin is guided and retained, said pin having a reduced end adapted to project from said recess, the recess having a shoulder at its mouth for cooperating with the pin to limit the outward travel of the reduced end to a distance less than the length of said registering opening in the socket, and a spring in said recess tending to push the pin out of the recess, said pin projecting into said opening a sufficient distance to lock positively said members against longitudinal separation.

19,094
MEANS FOR TRANSPORTING VEHICLES AND THE LIKE

Irving H. Judd, Detroit, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan

Original No. 1,865,569, dated July 5, 1932, Serial No. 520,175, March 4, 1931. Application for reissue October 30, 1933. Serial No. 695,800

20 Claims. (Cl. 280—33.1)



4. In a transportation means of the class described a main frame, a pair of substantially horizontally arranged supporting arms carried by said main frame and adapted to support a skid, and means arranged intermediate said supporting arms for yieldably holding a skid in position thereon.

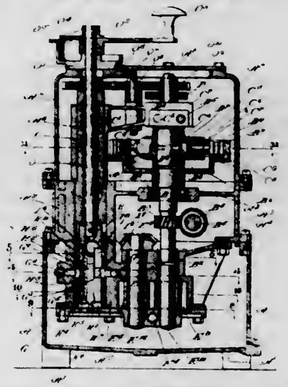
18. A vehicle having a substantially horizontal main frame, a runway for carrying an automobile disposed on and extending longitudinally of said main frame, a second runway for carrying an automobile disposed in an elevated position with respect to the first mentioned runway, and supporting means for the elevated runway carried by the main frame, a portion of said first mentioned runway being movable from an operative position on the main frame in line with the remainder of said runway to an inclined position as a skid to provide for the running of an automobile upwardly from the first mentioned runway to said elevated runway.

19,095
HYDRAULIC TRANSMISSION

Walter Ferris, Milwaukee, Wis., assignor to Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

Original No. 1,619,200, dated March 1, 1927, Serial No. 460,184, April 11, 1921. Application for reissue September 11, 1933. Serial No. 689,046

27 Claims. (Cl. 60—52)



2. In a hydraulic transmission the combination of a hydraulic motor, a variable displacement pump for driving said motor at a variable rate within a limited speed range, a second pump for increasing the speed of said motor, a control element, means controlled by said element for regulating the displacement of said first named pump, and means controlled by said element for controlling the discharge from said second pump.

19,096
SAND OR SEDIMENT TRAP FOR PUMPING WELLS

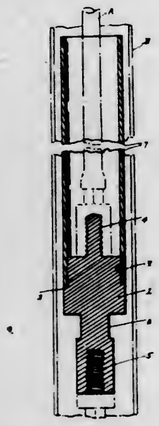
Frank E. Kapp, Tidioute, Pa.

Original No. 1,933,595, dated November 7, 1933, Serial No. 650,701, January 7, 1933. Application for reissue January 10, 1934. Serial No. 706,153

2 Claims. (Cl. 103—202)

2. The combination with a well tubing and a solid pump rod assembly, of an axially extending imperforate cylindrical sleeve carried by said

solid rod, said sleeve having an outside diameter less than the inside diameter of the well tubing, thereby defining an annular space between said sleeve and the well tubing and also defining an annular space between said rod and sleeve, which



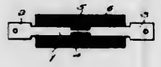
latter space is open at the top and closed at the bottom, whereby all of the ascending fluid is forced to pass through said space between said sleeve and tubing, and the major portion of any settling material will be collected by said sleeve.

19,097
FUSE

Clarence Ringwald, Springfield, Ohio, assignor, by mesne assignments, to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware

Original No. 1,862,317, dated June 7, 1932, Serial No. 242,137, December 23, 1927. Reissue No. 18,743, dated February 21, 1933, Serial No. 629,945, August 22, 1932. This application for reissue July 14, 1933. Serial No. 680,445

75 Claims. (Cl. 200—120)



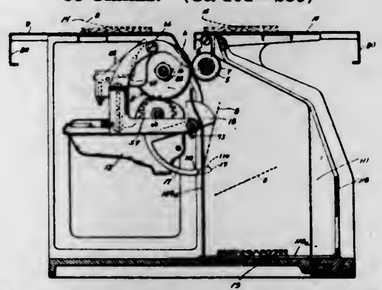
1. In a fuse device, the combination of a container comprising an outer sleeve of condensation product and an inner lining of fiber impregnated in a solid waxy halogen derivative of naphthalene, and a fusible link within said container.

19,098
CHECK INDORSER

Walter H. Lyman, and Paul F. Fischel, Chicago, Ill., assignors, by mesne assignments, to The International Check Endorser Co., Chicago, Ill., a corporation of Illinois

Original No. 1,924,693, dated August 29, 1933, Serial No. 284,367, June 11, 1928. Application for reissue December 28, 1933. Serial No. 704,362

33 Claims. (Cl. 101—236)



1. A check indorser comprising a motor, a rotatable type cylinder, a driving clutch member driven by said motor, a driven clutch member carried by said cylinder, a rotatable cylindrical platen cooperating with said type cylinder, a pair of paper feed wheels at opposite ends of said type cylinder, respectively, and coaxial therewith, a pair of paper feed wheels coaxial with said cylindrical platen located at opposite ends thereof, rotatable therewith and driven from said first pair of feed wheels, respectively, means for holding said type cylinder against rotation and for holding said driven clutch member out of engagement with said driving clutch member released by the paper as it is advanced by said feed wheels, to release the type cylinder and permit the driven clutch member to engage the driving clutch member, means for yieldingly holding said platen feed wheels against said type cylinder feed wheels, the common tangent to said type cylinder and platen being substantially vertical whereby the checks as they pass between the type wheel and platen travel substantially in a vertical plane, two horizontal tables spaced horizontally from each other, for holding stacks of checks, lying in a plane above said type cylinder and platen, the space between said tables lying substantially directly above the line of contact between the type cylinder and platen, whereby sheets of paper may be passed through said space to the feed wheels, and means for turning each check into a horizontal plane and depositing it in a definite position after it is released from the feed rolls so that the side engaged by the type cylinder lies uppermost, whereby the checks will be stacked indorsed side up in the same order in which they were stacked on the table.

CARNEGIE LIBRARY OF ATLANTA

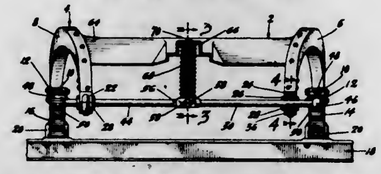
PATENTS

GRANTED FEBRUARY 27, 1934

1,948,482
CAR SUSPENSION

John Otto Aimen, Royal Oak, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware

Application September 26, 1932
Serial No. 634,867
7 Claims. (Cl. 267—11)

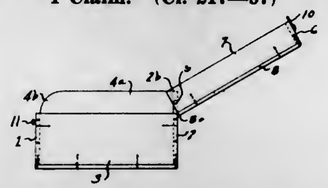


1. In a spring suspension for vehicles having a chassis frame with a spring at each side thereof, means connecting the springs at one of their ends to the chassis frame, a rod connected to the other end of one spring, a second rod connected to the other end of the second spring, means movably connecting said rods to the vehicle, means movably interconnecting said rods, and resilient means at said connection to resist movement of the rods.

1,948,483
BOX WITH HINGED LID

Frank A. Aman and Henry B. Sandmann, Jr., Cincinnati, Ohio

Application July 8, 1932. Serial No. 621,438
1 Claim. (Cl. 217—57)

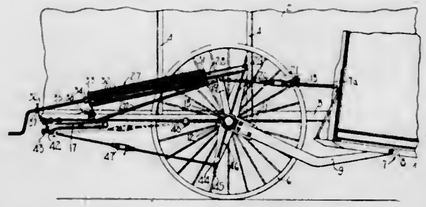


A box comprising a main lower portion with front, back and end walls, the end and back walls upstanding above the main lower portion and the upstanding parts of the end walls being set in from the outer end surfaces of the lower portion, and the box being without upward extension of its front wall, so that it is open between the front ends of its upstanding end parts, a lid comprising a top, and front walls and end walls, its front wall closing the opening at the front of the box and the lid end walls straddling the upstanding parts of the box end walls and lying substantially in the space where said upstanding end parts are set in, when the lid is closed, and the lid being without a back wall and being closed at its back by the upstanding part of the box back wall when closed, and pivots extending from the rear end parts of the lid end walls to the ends of the upstanding part of the box back wall, substantially midway of the height of the lid end walls, the rear edge of the top of the lid being substantially in the plane of the rear ends of the lid end walls and being adapted to engage the rear surface of the box when the lid is opened, to sustain the lid in a rearwardly inclined position.

1,948,484
HARVESTER

Ralph L. Anderson, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application May 22, 1933. Serial No. 672,269
8 Claims. (Cl. 56—20)

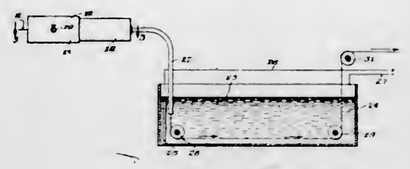


1. In an agricultural implement, a main frame, a secondary frame vertically adjustable relative to the main frame and detachably connected therewith, counterbalancing spring means connected to the main frame, means for transmitting the stress of said spring to said secondary frame and counterbalancing the latter, and means for retaining said spring under stress when said force transmitting mechanism is disconnected for detaching the secondary frame from the main frame.

1,948,485
METHOD OF DRAWING WIRE

Albert J. Anselm, Lake Bluff, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a corporation of New York

Application June 30, 1930. Serial No. 464,740
7 Claims. (Cl. 205—21)



1. A method of treating molybdenum preparatory to drawing it into wire which comprises heating it in the presence of hydrogen to reduce the oxide surface, cooling the molybdenum wire, isolating the molybdenum wire from the atmosphere while passing it to a plating bath and electro-plating the wire in said plating bath.

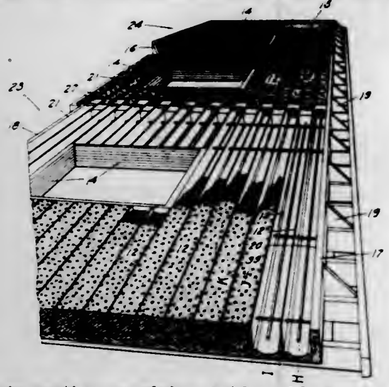
1,948,486
FORM FOR KNOCKDOWN CONCRETE STRUCTURES

Kenneth E. Bemis, Glendale, Calif.

Application February 27, 1932. Serial No. 595,559
2 Claims. (Cl. 25—121)

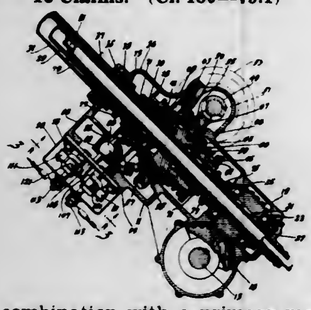
1. A mold of the class described, comprising a horizontal base, a plurality of facing matrices supported in parallel upon said base, longitudinal partitions retained in perpendicular relation between said matrices to form mold-spaces there-

between a transverse partition wall interposed in the respective mold-spaces, and in inverted



matrix-section overlying said mold-space adjacent each said transverse-wall.

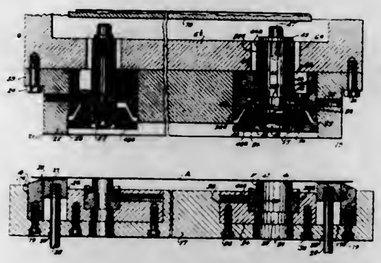
1,948,487
STEERING MECHANISM
George P. Berry, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
Application May 27, 1931. Serial No. 540,298
13 Claims. (Cl. 180—79.1)



1. In combination with a primary mechanism to be operated, a primary operating means therefor adapted to move the said primary mechanism in either of two opposite directions, a normal inoperative secondary power driven operating means adapted to engage directly and move the said primary mechanism in either of two opposite directions, secondary mechanism operable in response to a predetermined resistance to movement of the primary mechanism to cause the secondary operating means to operate, and a normally disconnected connection between said primary and secondary means, whereby said primary means may operate said mechanism without overcoming resistance in the secondary means, said secondary mechanism including clutch elements.

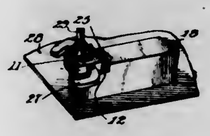
1,948,488
MACHINE FOR AND PROCESS OF FABRICATING CONTAINER WALLS AND ACCESSORIES THEREON
Rudolph Blaho, Cleveland, Ohio, assignor to The Byrne Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 16, 1931. Serial No. 530,672
39 Claims. (Cl. 153—2)

1. In apparatus of the class described, the combination of a pair of relatively movable members, a seat on one of said members for a bung ring having a neck and laterally extending portions at one end of the latter, and a set of co-operable elements on said members successively operated by the relative movement of said



members, in each operation thereof one toward the other, to first form an opening in a blank positioned between said members, provide an annular wall around said opening and to bend the opposite end of the neck over the outer end of the annular wall.

1,948,489
TOOL AND METHOD OF MAKING SAME
Clarence W. Balke, Highland Park, Ill., assignor, by mesne assignments, to Ramet Corporation of America, North Chicago, Ill., a corporation of Illinois
Application October 11, 1930. Serial No. 488,175
11 Claims. (Cl. 76—101)

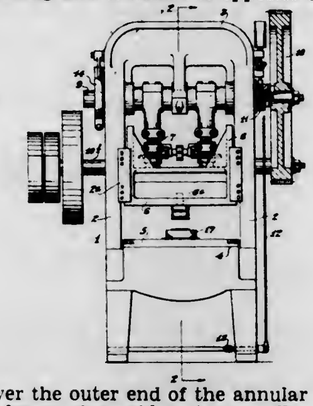


1. A method of attaching a refractory metal tool portion to a base metal portion which comprises nickelplating the refractory metal portion, baking the plating on said refractory metal portion, and attaching it to the portion of base metal by means of silver solder.

8. A tool comprising a steel body, a working portion of tantalum carbide having an electroplating thereon, and silver solder holding said plated working portion to said body.

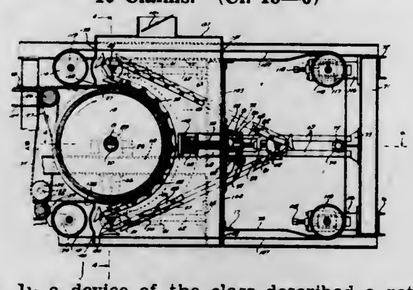
1,948,490
MACHINE FOR AND PROCESS OF FABRICATING CONTAINER WALLS AND ACCESSORIES THEREON
Rudolph Blaho, Cleveland, Ohio, assignor to The Byrne Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 12, 1931
Serial No. 574,581
20 Claims. (Cl. 153—2)

1. In apparatus of the class described, the combination of a pair of relatively movable members, a seat on one of said members for a bung ring having a neck and laterally extending portions at one end of the latter, co-operable elements on said members operated by the relative movement of said members, one toward the other, to first form an opening in a blank positioned between said members, provide an annular wall around said opening and to bend the opposite end of the



neck over the outer end of the annular wall, and means for moving said seat upwardly.

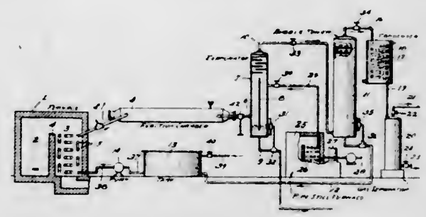
1,948,491
APPARATUS FOR FORMING AND CURING BRAKE LININGS
Carl P. Brockway, Ridgewood, N. J., assignor to World Bestos Corporation, Paterson, N. J., a corporation of Delaware
Application April 17, 1931. Serial No. 530,828
10 Claims. (Cl. 18—6)



1. In a device of the class described a rotatable drum, means to rotate said drum, means to heat said drum, channels formed in the periphery of said drum, flexible endless bands each having a width conforming with the width of each of said channels and adapted to fit closely into said channels and follow the periphery of said drum for a relatively large part of their rotation whereby strips of material may be fed between said flexible bands and the bottom of said channels to compress said strips therebetween, and means to gradually increase the pressure of said bands against said strips as said drum rotates, said means comprising a flexible belt and a plurality of shoes on one side of said belt, each shoe having a single pivot connection to said belt.

1,948,492
PROCESS AND APPARATUS FOR THE CONVERSION OF PETROLEUM HYDROCARBON
Walter M. Cross, Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a corporation of Delaware
Application May 21, 1927. Serial No. 193,145
14 Claims. (Cl. 196—51)

1. A continuous process of converting hydrocarbon oil, comprising, treating a stream of relatively light hydrocarbon oil under cracking conditions of temperature and under relatively high superatmospheric pressure; separately heating another stream of a relatively heavier hydrocarbon oil to temperatures above the boiling point of the lighter constituents; passing the two heated streams of oil to a common evaporating stage maintained under a relatively low pressure, above



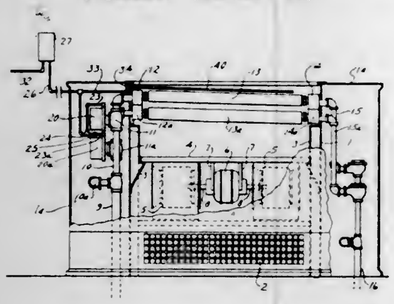
the liquid level therein, and therein separating the vapors from the two oils before mixing the unvaporized portions of the two oils, preventing the vapors evolved from one stream from contacting unvaporized oil resulting from the other stream while blending the vaporized and unvaporized portions of the two oils and separately removing the blended vaporized and unvaporized portions from said zone.

1,948,493
INDICATOR
Robert A. Elliott, Peoria, Ill.
Application March 12, 1932. Serial No. 598,381
2 Claims. (Cl. 33—143)



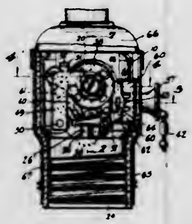
1. In an indicator of the character described, in combination, a substantially vertical member having a container embracing means near the lower end thereof adapted to position said member with respect to such container, a centering and supporting element mounted near the upper end of said member comprising an extension arranged for engagement with the upper end of such container, a slide carried by said member including an indexing device, a second member supported by said slide, the upper end thereof being guided by said centering and supporting element, and a slide including an indexing device carried by said second member.

1,948,494
UNIT HEATER AND VENTILATOR CONTROL SYSTEM
Warren Ewald, Columbus, Ohio, assignor, by mesne assignments, to Buckeye Blower Company, Columbus, Ohio, a corporation of Delaware
Application February 2, 1932. Serial No. 590,445
9 Claims. (Cl. 236—37)



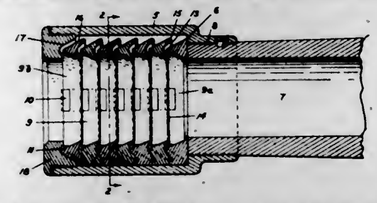
1. In a heating apparatus for a room, a plurality of radiators having a connection with a source of heating fluid, means connected to each radiator and operated by the temperature of the room remote from the radiators to successively cut off the heating fluid from the radiators, and means operated by the temperature adjacent one radiator and in opposition to the first-named means to admit a small amount of the heating fluid to said radiator to prevent the temperature around the radiators becoming too low.

1,948,495
PULL SOCKET
Charles E. Avery, Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application October 9, 1928. Serial No. 311,367
5 Claims. (Cl. 173—354)



1. In a lamp socket, an insulating body member flattened on one longitudinal side wall and provided with spaced recesses in the opposite side wall, a switch mechanism mounted on the flattened side including a non-conducting ratchet disc mounted to turn about an axis transverse the longitudinal axis of the body, a flexible pull chain, means for connecting the chain to said disc adjacent the periphery thereof and adapted to engage the edge of the disc so that the pull of the chain is always substantially tangent thereto, and a chain guide through which said chain passes secured directly to the body member with its axis substantially tangent to the periphery of the disc.

1,948,496
MUZZLE BRAKE FOR GUNS
Gladeon M. Barnes, United States Army, Hastings, Mich.
Application February 17, 1932. Serial No. 593,533
4 Claims. (Cl. 89—42)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



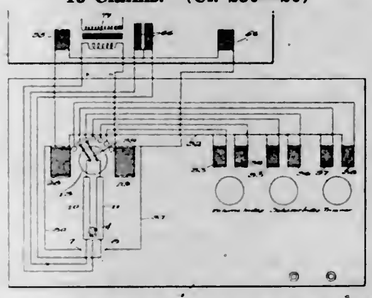
4. A muzzle brake for guns comprising a casing, a series of baffle rings in the casing, and laterally projecting lugs on the rings spacing them from the casing and from each other.

1,948,497
GUN
Gladeon M. Barnes, United States Army, Hastings, Mich.
Application March 17, 1933. Serial No. 661,337
4 Claims. (Cl. 89—37)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



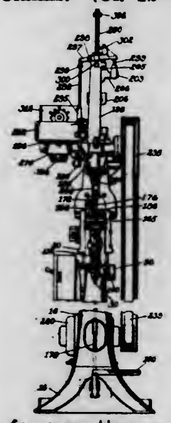
4. In a gun structure, a cradle comprising a rear and a front block, socket members on the rear block, cylinders secured in said socket members and passing through the front block, means on the cylinders for confining the front block, trunnions on the rear block and a gun barrel mounted in the blocks for sliding movement.

1,948,498
INDICATING CONTROL SYSTEM
Ernest V. Bereche, Flushing, N. Y.
Application April 6, 1929. Serial No. 353,074
15 Claims. (Cl. 250—20)



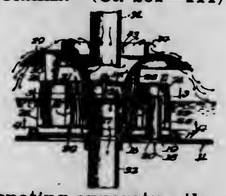
1. The combination with a plurality of control elements, of means for independently actuating each of said elements, power means bodily movable relative to and for actuating said first-mentioned means, and means for bodily moving said power means selectively into operative relation with predetermined independent actuating means.

1,948,499
MACHINE FOR ATTACHING HEELS TO SHOES
Frederic E. Bertrand, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 18, 1931. Serial No. 551,631
37 Claims. (Cl. 12—42)



1. A machine for operating on heels, having in combination, a frame, a power driven countersinking tool mounted therein, an oppositely-disposed support for a shoe having its heel in place thereon, means for relatively moving the support and tool, and means for so mounting the support that it may move freely with the shoe transversely to the axis of said tool, thereby permitting the shoe to center itself on the tool with respect to a previously formed hole in its heel seat.

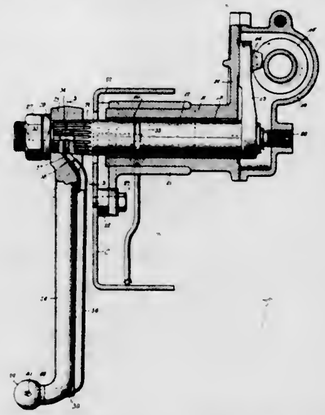
1,948,500
FRACTIONATING APPARATUS
Raymond W. Bielfeldt, Thornton, Ill.
Application September 28, 1931
Serial No. 565,480
9 Claims. (Cl. 261—114)



1. In fractionating apparatus, the combination of a bubble-cap comprising an upwardly discharging duct for vapor, a primary deflector for directing the vapor downwardly to mix with the liquid in the chamber, comprising an annular depending wall, a tubular deflector inside of and separated from the depending wall and an overflow conduit inside of the tubular wall.

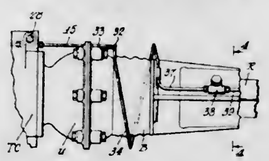
1,948,501
LUBRICATING INSTALLATION
Joseph Bijur, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware
Application February 24, 1928. Serial No. 256,504
37 Claims. (Cl. 184—7)

1. The combination of a substantially horizontal rock shaft, a support therefor, a depending lever rigid therewith, a bearing at the lower end thereof, a lubricant inlet near said rock shaft, fixed in respect to said support, a passageway communicating therewith and extending longitudinally of said lever to supply lubricant to said



bearing, said latter passageway being constructed and arranged to maintain substantially atmospheric pressure therein at all times, thereby insuring prompt delivery to the bearing, of a charge of lubricant admitted at the inlet.

1,948,502
CHASSIS LUBRICATION
Joseph Bijur, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware
Application November 1, 1928, Serial No. 316,385
Renewed November 12, 1931
12 Claims. (Cl. 184—7)

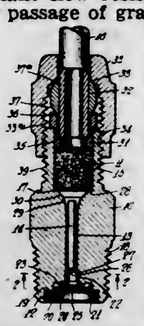


1. In a central chassis lubricating system means for conveying lubricant pressure from the chassis frame to the rear axle, said means including a flexible metal pipe extending in helical conformation adjacent the forward part of the propeller rod to accommodate the pivoting movement thereof at said region and extending therefrom longitudinally along the propeller rod to the rear axle, and means sustaining the length of said pipe free from engagement with the revolving propeller rod.

1,948,503
FLOW CONTROL FITTING
Joseph Bijur, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware
Application February 21, 1930. Serial No. 430,334
25 Claims. (Cl. 184—7)

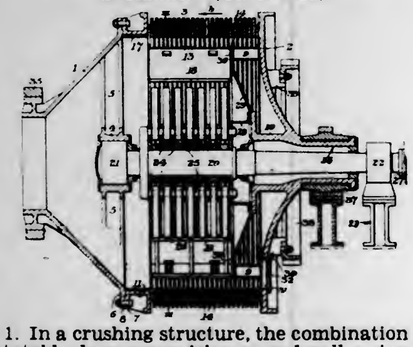
1. A flow control element of the class described including a fitting adapted to be applied at a bearing and to be coupled in liquid tight relationship to a feed pipe supplying oil to the bearing, a resistance element defining a restricted flow

crevice of invariant flow resistance, the fitting providing a flow passage of gradually decreasing



cross-sectional area adjacent the inlet of the crevice.

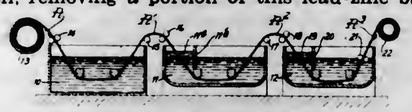
1,948,504
CRUSHING MACHINERY
George W. Borton, New Lisbon, N. J., assignor to Pennsylvania Crusher Company, Philadelphia, Pa., a corporation of New York
Application February 3, 1931. Serial No. 513,190
2 Claims. (Cl. 83—11)



1. In a crushing structure, the combination of a rotatable drum comprising an end wall, a ring section spaced from said end wall and having a smooth inner surface, longitudinal ribs at the periphery of said drum connecting said ring section and end wall, screen plates comprising circumferentially arranged grids carried by said ribs and forming a foraminous wall for said drum, a conical end for receiving material to be crushed connected to said ring section, lifting means extending longitudinally of said drum internally of the same and disposed opposite the screen plates only whereby material introduced therein may be lifted for gravitational discharge, hammer mechanism within the drum adapted to act upon the material delivered by said lifting means, a shaft carrying said hammer mechanism, supports for said shaft; one of said supports being formed integral with the conical delivery end; means for rotating said drum, and independent means for driving the shaft supporting the hammer mechanism.

1,948,505
METHOD OF COATING IRON AND STEEL
John L. Bray, Lafayette, Ind.
Application January 18, 1932. Serial No. 587,226
6 Claims. (Cl. 91—70.2)

1. The method of coating the surface of an iron or steel body comprising dipping the body in a bath of molten zinc, removing and cooling said body below the solidifying point of zinc, dipping said body in a bath consisting of molten lead containing zinc materially below the saturation point at the operating temperature of the bath, removing a portion of this lead-zinc bath



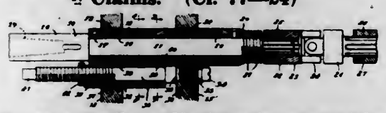
from time to time, and adding lead so as to maintain said bath with a desired percentage of zinc below the saturation point.

1,948,506
BY-PASS CONDENSER
Charles H. Caine, Chicago, Ill., assignor, by mesne assignments, to Tung-Sol Lamp Works Inc. (Central Warehouse Division), a corporation of Delaware
Application August 3, 1929. Serial No. 383,323
9 Claims. (Cl. 175—41)



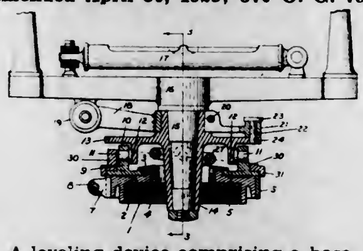
1. In a condenser in which a pair of plates and a pair of separators therefor are rolled around a rigid cylindrical mandrel with one plate projecting from one end of the roll and bent over against that end and the other plate projected from the other end of the roll and bent over against that end, solder covering the bent over ends of said plates, and contact washers disposed in said solder, said washers having openings through which excess solder escapes as the washers are pressed into place while said solder is molten.

1,948,507
SPINDLE ADJUSTMENT
Raymond A. Carlson, Rockford, Ill., assignor to Rockford Drilling Machine Co., Rockford, Ill., a corporation of Illinois
Application July 9, 1931. Serial No. 549,587
4 Claims. (Cl. 77—24)



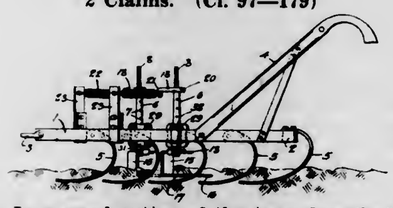
1. In a spindle adjustment, comprising a spindle projecting from a face plate, and an adjusting screw mounted for rotation on the face plate and held against endwise movement with respect thereto, said face plate having two circular holes provided therein intersecting one another, a sleeve of circular cross-section slidably received in the one hole and having said screw threading therein, and a holder for said spindle of circular cross-section slidably received in the other hole, said sleeve being provided with a longitudinal arcuate recess on one side thereof for detachable reception of a portion of the holder therein at the point of intersection of the holes, whereby to hold the sleeve against turning and cause endwise movement of the sleeve upon turning of the screw, and said holder having an arcuate recess provided in the side thereof for reception of an arcuate projection provided on the side of the sleeve whereby to prevent turning of the holder and provide an operating connection between the sleeve and holder to communicate endwise movement to the holder upon endwise movement of the sleeve.

1,948,508
LEVELING DEVICE
Oscar M. Carleton, Watertown, Mass.
Application October 10, 1933. Serial No. 692,996
12 Claims. (Cl. 248—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



12. A leveling device comprising a base, a ring rotatably mounted on the base and having diametrically opposite bearings on its upper side, a head having trunnions in the bearings of the ring, a pair of shoes carried by the head on an axis at right angles to the trunnions, and a cam ring rotatably mounted on the ring and engaged by the shoes.

1,948,509
BUSH AND WEED DESTROYING CULTIVATOR
Herschel B. Carter, Auburn, Ky.
Application December 17, 1932
Serial No. 647,818
2 Claims. (Cl. 97—179)



1. In a weed cutter of the type described, the combination of a cutter blade having a shank spaced above the blade, said shank having a vertical portion and a horizontal portion, a post secured to the horizontal portion of the shank, a sleeve in which the post is rotatably mounted, means for attaching the sleeve to a cultivator, an arm mounted on the upper end of the post, a spring attached to the free end of the arm, means affixed to the cultivator to which the other end of the spring is attached, whereby a rotative movement of the cutter blade is permitted against the tension of the spring when an obstacle is encountered, the post having a series of apertures for adjustably mounting same in the sleeve, and a pin insertable through the apertures for supporting the post in adjusted position on the upper edge of the sleeve.

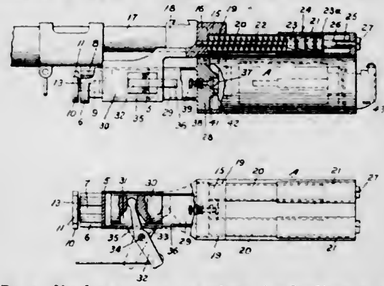
1,948,510
TILE TYING RUNNER
Thomas D. Corcoran and Lionel A. Wolff, Los Angeles, Calif.
Application May 29, 1931. Serial No. 540,885
11 Claims. (Cl. 108—10)

1. A tile tying strip comprising portions adapted to lie upon a roof and other portions carried by said first portions and normally lying in the plane thereof but which are extended out of the



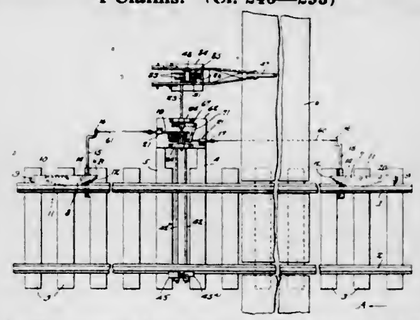
plane of the first portions when the latter are subjected to lateral pressures.

1,948,511
DISCHARGER
Richard C. Coupland, United States Army, Norfolk, Va.
Application August 2, 1932. Serial No. 627,245
5 Claims. (Cl. 42—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. In a discharger, a receiver including a yoke, a barrel having its base slidably mounted in the receiver, sets of telescoping tubes, one of the tubes of each set attached to the yoke and the other to the barrel, a rod within each set of tubes, said rod secured to the yoke and having means for limiting forward movement of the tube on the barrel, and a resilient means within each set of tubes for checking recoil of the barrel and restoring it to battery.

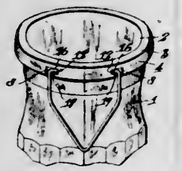
1,948,512
CROSSING GATE
Everett Daniel, Moultrie, Ga.
Application January 30, 1933. Serial No. 654,328
4 Claims. (Cl. 246—293)



1. The combination with a track and a gravity-closing crossing gate, of a first slide mounted for reciprocation and engaging the gate, a shaft mounted for rocking movement and operatively connected with the first slide, an arm on the shaft, a second slide mounted for reciprocation, mechanism for operatively connecting the second slide with the arm, spring means for actuating the first slide to raise and open the gate, and to advance the second slide, car-operated means for retracting the second slide, thereby to retract the first slide, compress the spring means, and permit the gate to close, a pivotally mounted gravity latch held in inoperative position by engagement with

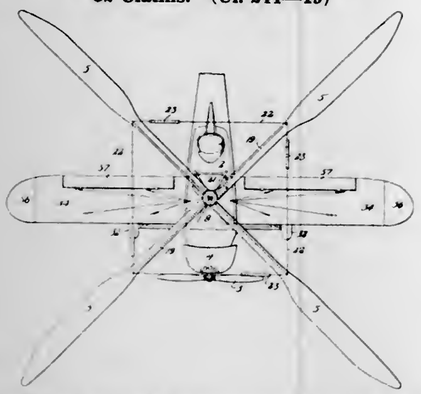
the second slide when the second slide is advanced, the latch engaging the second slide, when the second slide is retracted, to hold the second slide against advancement, and train-operated means for releasing the latch from the second slide, thereby releasing the spring means, to bring about an opening of the gate, and to advance the second slide.

1,948,513
VESSEL AND MEANS FOR REMOVING CAPS THEREFROM
Frank L. Darling, Baltimore, Md.
Application September 27, 1930
Serial No. 484,883
18 Claims. (Cl. 215—46)



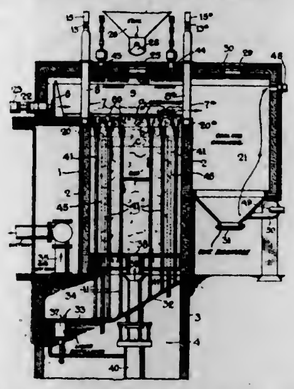
1. A vessel having an end provided with a mouth opening and having a circumferential portion at said end which is adapted to underlie the skirt of a skirted cap, said circumferential portion including a side and also a top, the latter forming a sealing surface surrounding the mouth opening which is uninterrupted in the same continuous plane throughout its area, said vessel adjacent its mouth having its side walls imperforate, the said side of the circumferential portion having a pair of circumferentially spaced recesses constituting seats, said recesses being located wholly in the side of said circumferential portion and below its top.

1,948,514
AIRCRAFT WITH ROTATIVE WINGS
Juan de la Cierva, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application March 3, 1930, Serial No. 432,773, and in Great Britain March 4, 1929
32 Claims. (Cl. 244—19)



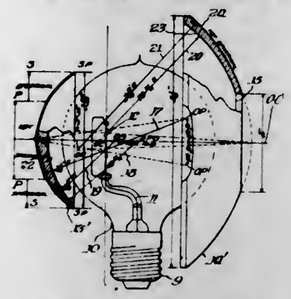
1. In an aircraft having sustaining blades rotatably mounted for actuation by the relative air-flow in flight, propelling means vertically offset with respect to the center of gravity of the aircraft and set at such an angle that its line of thrust passes approximately through the center of gravity of the aircraft.

1,948,515
METHOD OF CARBONIZING SOLID CARBONIZABLE MATERIAL
Ira H. Derby and Harold R. Horner, Indianapolis, Ind., assignors to Peter C. Reilly, Indianapolis, Ind.
Application January 4, 1930. Serial No. 418,612
11 Claims. (Cl. 202—19)



1. That method of treating solid carbonizable material to distil and carbonize the same, which comprises forming a charge thereof and likewise producing a plurality of channels extending therethrough so spaced as to bring about substantially equal distribution of heat; subjecting the upper exposed surface of the charge through which the channels open at the direct action of a gaseous heating medium; and drawing such medium, together with distillates evolved in the treatment of the charge, down through the channels in the charge and in direct contact with the material of the charge.

1,948,516
LIGHT RAY PROJECTION APPARATUS
Ralph P. De Vault, Villa Park, Ill., assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill., a corporation of Illinois
Application December 18, 1924
Serial No. 756,738
10 Claims. (Cl. 240—41.3)

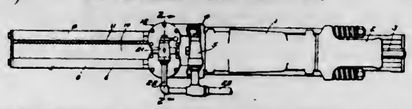


1. In a light projection apparatus which includes opposed reflectors about a light source, one reflector comprising a surface generated by the revolution of combined continuous curvilinear circular arcs, one of which arcs has its center on the optical axis of the apparatus which serves as the axis of rotation, and the other an arc of a circle whose center is not on the axis, and disposed remote from the axis, the radii of said arcs being of different lengths.

1,948,517
TREATMENT OF DERIVATIVES OF CELLULOSE
Camille Dreyfus, New York, N. Y., and George Schneider, Montclair, N. J., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application May 10, 1930
Serial No. 451,509
6 Claims. (Cl. 260—102)

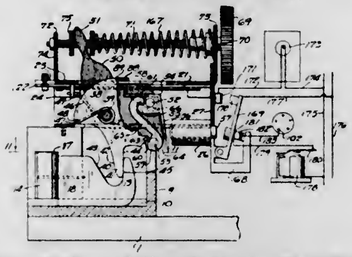
1. Method of improving the properties of an organic substitution derivative of cellulose comprising treating the same directly after precipitation with a solution capable of liberating chlorine at temperatures above 50° C.

1,948,518
DRILLING MECHANISM
Elmer G. Gartin, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application March 10, 1930. Serial No. 434,650
13 Claims. (Cl. 255—45)



9. A drilling mechanism comprising, in combination, a guide shell, a percussive drilling motor slidably guided and supported by said shell, and feeding means for said drilling motor including a fluid actuated feed motor having a rotating element and means for maintaining a torque thereon during fluid supply to said motor, a feed engaging member carried by said shell, a spur toothed pinion carried by the rotating element of said feed motor, and spur toothed driving connections between said pinion and said feed engaging member whereby said feed motor and engaging member are constantly in their normal driving relation throughout all movements of said drilling motor.

1,948,519
CIRCUIT INTERRUPTER
Stephen S. Grady, Magnolia, N. C., assignor to Fusold Electric Co., Inc., a corporation of New York
Application August 17, 1929, Serial No. 386,589
Renewed May 6, 1933
16 Claims. (Cl. 175—294)

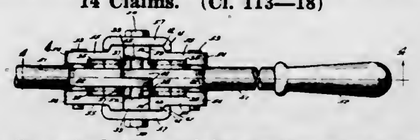


1. In a system of the character described, the combination with a circuit having two contacts, of an interposer for spacing said contacts into circuit breaking position, a circuit breaking actuating plate normally urging said interposer into circuit breaking position, a circuit making actuating plate, means for positioning said circuit making actuating plate, connecting means for connecting said circuit making actuating plate to said circuit breaking actuating plate, means sensitive to an overload to disrupt said connecting means to liberate said circuit breaking actuating plate, an electric motor, drive means connecting said electric motor with said positioning means, controlling means cooperating with said circuit breaking actuating plate to cause said motor to actuate said positioning means in turn to actuate said circuit making actuating plate into position for causing said connecting means again to connect said circuit breaking actuating plate to said circuit making actuating plate and means cooperating with said controlling means for reversing said motor to cause said driving means to return said positioning means and therewith return said circuit making plate and circuit breaking plate into circuit making position.

1,948,520
AMMONIATION OF SUPERPHOSPHATE
Edward W. Harvey, New Brunswick, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 10, 1930
Serial No. 420,008
8 Claims. (Cl. 71—7)

1. In a process for producing a nitrogen-phosphorous fertilizer by treating a superphosphate material with ammonia, that improvement which comprises incorporating ammonia with a mixture of a superphosphate material and a represser salt in the proportions of not substantially less than about 23 pounds of ammonia for every 1,000 pounds of superphosphate in said mixture whereby reversion of available P_2O_5 in the superphosphate to an unavailable form is inhibited by the represser salt present during the ammoniation treatment of the superphosphate material.

1,948,521
CONTAINER CLOSURE APPLYING TOOL
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application February 20, 1931. Serial No. 517,242
14 Claims. (Cl. 113—18)

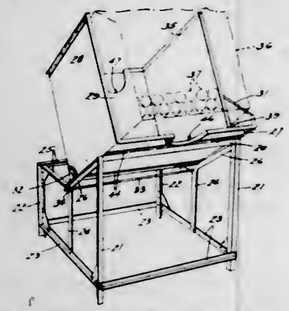


1. In a tool for applying sealing closures to containers having shouldered parts, the combination of a head adapted to rest upon said closure, a post mounted on said head, arcuate crimping jaws pivotally mounted on said post, and oppositely operating hand operated levers mounted adjacent and at each side of said post and having cam surfaces working against said jaws and moving them inwardly and upwardly when said hand levers are depressed to crimp the closure around and under the shoulder of the container.

1,948,522
PACKING STAND
Samuel S. Jacobs, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application January 27, 1930. Serial No. 423,588
4 Claims. (Cl. 226—129)

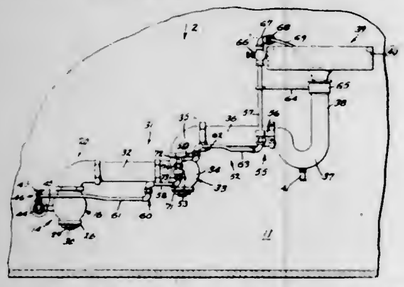
4. A packing stand comprising a frame provided with two supporting surfaces arranged at an angle, greater than a right angle, to each

other, and a case-holder having tilting engagement with said frame at the apex of said angle and movable to the front of the line of said engagement for packing and to the rear of said



line for the removal of the packed case, the holder being open at its sides which are opposite to the axis of the tilting and resting in either of said positions against one or the other of said surfaces.

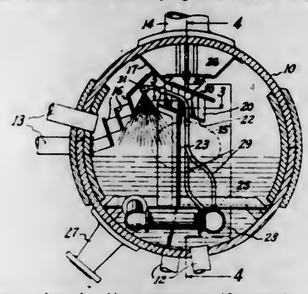
1,948,523
DENTAL CUSPIDOR
Fred W. Kahlert, Los Angeles, Calif.
Application August 21, 1930. Serial No. 476,787
8 Claims. (Cl. 4—263)



1. In a dental cuspidor mounting a wall fitting having a first and inner joint connected thereto with an inner section of pipe connected to the joint, a center joint connected to the inner pipe section, an outer pipe section extending from the center joint, a bowl supported by the outer section, and a supply pipe having a wall fitting, a center joint connected to the center joint of the drain pipe, and an outer joint connected to the outer section of the drain pipe, there being intermediate joints between the inner and outer joints and the center joint with connecting pipes, and a discharge pipe to discharge water into the bowl.

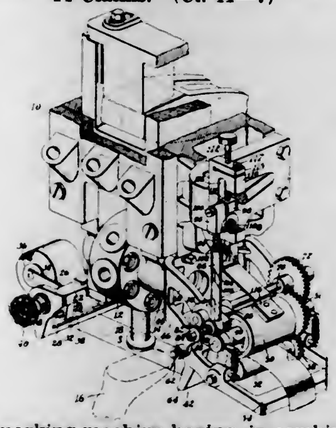
1,948,524
STEAM SEPARATOR
Howard J. Kerr, Westfield, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application January 26, 1933. Serial No. 653,607
17 Claims. (Cl. 122—491)

1. In a steam and water drum having steam and water circulators connected thereto along one side thereof, downflow water tubes connected to the bottom thereof, and a steam outlet in its upper side, a steam and water separator comprising a primary section arranged in the path of the wet steam discharged by said circulators, a secondary section positioned in the path of flow between said primary section and drum outlet, and means for discharging relatively pure feed water into



the steam prior to its passage through said secondary section.

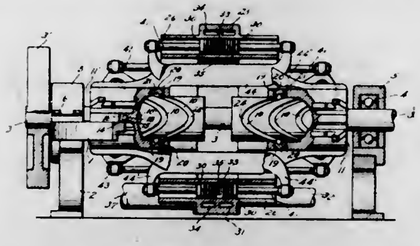
1,948,525
MARKING MACHINE
Axel Arnold Lawson, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application March 4, 1931. Serial No. 520,052
14 Claims. (Cl. 41—7)



1. A marking machine having, in combination, relatively movable work-supporting means and marking-tool-carrying means, strip-feeding means carried by said tool carrying means, and yieldable means for actuating the strip-feeding means to feed a strip past the first-mentioned means, said actuating means including mechanism connected at one end to the strip-feeding means and at its other end to the machine frame and constructed and arranged to yield and then expand to accelerate slowly the strip-feeding means whereby minimum strain is applied to the strip whereby breaking of the strip is insured against.

1,948,526
PARALLEL STEAM ENGINE
Thomas O. Liles, Dallas, Tex., assignor to Liles-motor Corporation, a corporation of Texas
Application October 17, 1932. Serial No. 638,132
14 Claims. (Cl. 121—119)

1. An engine having a multiple number of cylinders arranged about and parallel with a power shaft, a pair of pistons in each of the cylinders, the pistons being arranged in two groups, a pair of crossheads, connections beteen one of the crossheads and one group of the pistons and connections between the other crosshead and the other group of pistons, the pistons being operatively connected with the crossheads to move the latter toward each other upon the application of a power impulse between pistons of the two groups in some of the



cylinders and away from each other upon application of a power impulse between pistons of the two groups in other of the cylinders, and means carried by the crossheads engaging with and imparting rotary motion to the shaft upon movement of the crossheads along the shaft.

1,948,527
PASSENGER LIFT FOR DISK GASHOLDERS
Alfred Lorentz, Mainz-Gustavsburg, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Nuremberg, Germany, a corporation of Germany
Application March 7, 1931, Serial No. 520,991, and in Germany March 13, 1930
5 Claims. (Cl. 254—173)



1. A passenger lift for disk gas holders, comprising, in combination with an internal cage adapted to be moved from the top of the holder to the disk, and reversely, a suspension rope for said cage, a winch, and a motor therefor; a switch mechanism operatively associated with said rope to be actuated by the changes of tension in said rope taking place when the cage, while in contact with said disk, moves upwardly or downwardly together with the same, and electrical circuits for said motor selectively controlled by said switch mechanism in accordance with changes in the tension in said rope, to cause the winch to take up automatically the slack in the rope as the disk is lifted and to lower the cage automatically when the disk is lowered in correspondence with the speed of the same without coming out of contact with it.

1,948,528
PURIFICATION OF HYDROCARBON OILS
William M. Malisoff, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application December 13, 1930
Serial No. 502,254
9 Claims. (Cl. 196—30)

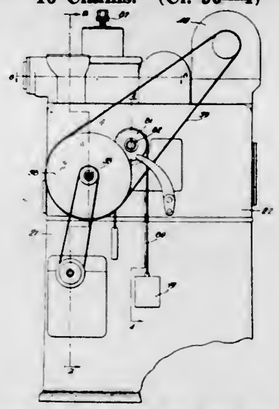
1. A process for reducing the sulfur content of a petroleum oil, which comprises maintaining said oil at a temperature between substantially 100° C. and 150° C. while in the presence of from 0.5 per cent to 4 per cent of anhydrous aluminum chloride, agitating the resultant mixture of oil and aluminum chloride for not more than substantially one hour to selectively polymerize sulfur compounds contained in said oil without substantially affecting other components of the oil, and separating the polymerized sulfur compounds and aluminum chloride from the oil.

1,948,529
BRAKE GEAR SUPPORT
Thomas Clarkson McConkey, Montreal, Quebec, Canada, assignor to Chicago Railway Equipment Company, Chicago, Ill.
Application July 10, 1930. Serial No. 467,099
8 Claims. (Cl. 188—210)



7. A railway truck brake gear guard or support device comprising an inverted U-shaped hook with downwardly projecting legs adapted to yieldingly grip the opposite sides of an upright flange on a truck part, one of said legs being provided with an offset intermediate its ends positioned so as to engage a downwardly facing surface of said truck part to prevent relative vertical movement of said leg and truck part, there being a member projecting from said hook to underlie a brake gear adjacent to said truck part.

1,948,530
WORM CUTTING MACHINE
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application November 1, 1929. Serial No. 403,969
16 Claims. (Cl. 90—4)



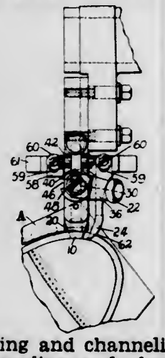
1. A machine for cutting hour glass worms which consists in means for rotating a cutter

having teeth with cutting edges disposed similarly to the outlines of the teeth of a given gear in the median plane of such gear, means for rotating a worm blank about an axis transverse to that of the cutter, and in position to be cut by said cutting edges, and means for incrementally oscillating the cutter relatively to the work piece in relatively opposite directions about its axis.

1,948,531
MACHINE FOR OPERATING UPON THE SOLES OF SHOES

George A. Miner, Medford, and Axel Arnold Lawson, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application May 25, 1931. Serial No. 539,804
20 Claims. (Cl. 12—18)

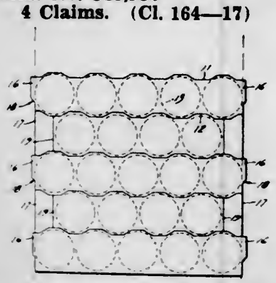


1. In a rounding and channeling machine, in combination, rounding and channeling means, work feeding means including a feed plate constructed and arranged to engage the projecting margin of the bottom of a shoe at the side adjacent to the upper, an upper gage located between the feed plate and the upper of the shoe, and a presser foot for engaging the shoe bottom margin at the side adjacent to the upper, and only in a location in advance of said feed plate.

1,948,532
SHEET METAL STRIP USED IN THE ART OF CUTTING CIRCULAR AND OTHER NON-RECTANGULAR BLANKS

John H. Murch, East Orange, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Original application June 16, 1924, Serial No. 720,248. Patent No. 1,818,150, dated August 11, 1931. Divided and this application July 6, 1931. Serial No. 548,932
4 Claims. (Cl. 164—17)

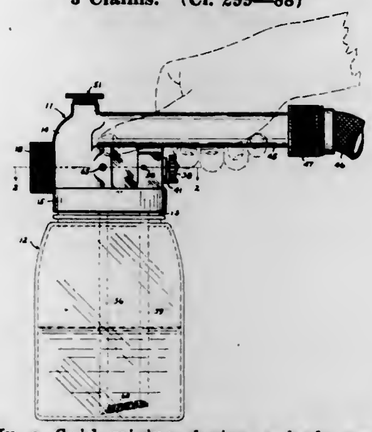


4. A sheet for cutting into scroll strips to form alternating longer and shorter strips from which rows of articles are to be punched, the two edges of the sheet which extend crosswise to the scroll cuts which are to be made being notched across the ends of the spaces which are to form the shorter strips, and partly across the spaces which are to form the longer strips, leaving untrimmed portions of the sheet at the middle parts of the ends of the longer strips, said untrimmed portions forming parts of the edge of the sheet.

1,948,533
SPRAYING DEVICE

George L. Neely, Berkeley, Calif.

Application March 19, 1929, Serial No. 348,164
Renewed April 24, 1933
3 Claims. (Cl. 299—88)

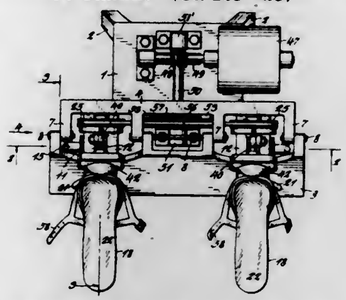


2. In a fluid mixing device, a body member providing fluid passages and a handle, means connecting one of said passages with a source of fluid under pressure, a closed reservoir for a liquid carried by and beneath said body for connection with a second passage thereof, a duct extending downwardly into the liquid in the reservoir from said second passage, an air inlet duct for the aforesaid duct, an air inlet duct for said reservoir, the inlet ports of said inlet ducts being provided in said body and being disposed for selective engagement by a finger of an operator's hand while said hand grips said handle, and nozzle means in said body operative to utilize the stream from said first passage to create an aspirating suction in said second passage for withdrawing fluid therethrough and discharging it into said stream.

1,948,534
FOOT MUSCLE EXERCISER

Myron A. Nelson and Erwin W. Henry, Cheyenne, Wyo.

Application July 25, 1932. Serial No. 624,390
12 Claims. (Cl. 128—25)

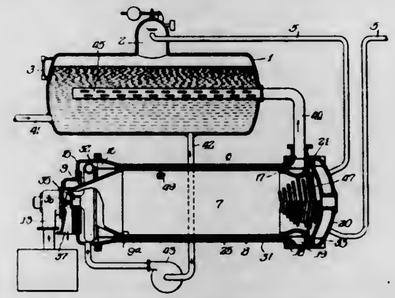


7. A device of the class described comprising, in combination, a support, spaced shafts whose axes are substantially parallel mounted in each support, a crank disk carried by one end of each shaft, a crank pin secured to each disk, the axis of the crank pins being inclined with respect to the axes of the shafts, a rod pivotally connected to each pin, a guide means for the lower end of each rod, a drive shaft, and friction means for transmitting motion from the drive shaft to the other two shafts, the friction drive means being adjusted to slip when the resistance exceeds a predetermined value.

1,948,535
HEATING SYSTEM

Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland, a joint-stock Company of Switzerland

Application March 1, 1929, Serial No. 343,745, and in Germany March 19, 1928. Renewed May 26, 1933
18 Claims. (Cl. 122—24)



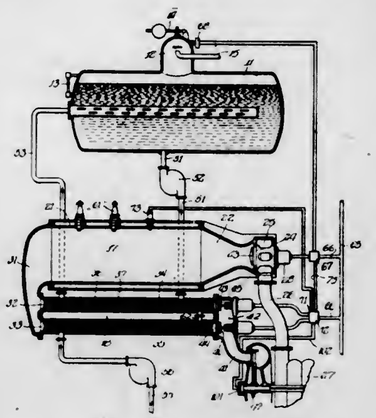
1. A steam generator comprising a closed, pressure-proof combustion chamber, means for subjecting a combustible mixture to combustion in said chamber to produce therein combustion gases of high temperature and high pressure, a heat exchanger having heat exchange surfaces in the form of duct means connected to said chamber and so arranged relative thereto that the high pressure of the produced combustion gases in said chamber imparts to said gases a high velocity through said duct means at which the major portion of the heat present in the produced combustion gases is transferred through said heat exchange surfaces while they flow at high velocity, and means for cooling said combustion chamber comprising a set of fluid conduits of relatively small cross-section carrying a steam generating fluid to be heated by said duct means and generate steam said fluid conduits being arranged in a layer over the surface of said chamber to divert the combustion gases from the walls of said chamber and to direct them to said duct means.

1,948,536
HEATING SYSTEM

Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland, a joint-stock company of Switzerland

Application March 1, 1929, Serial No. 343,746, and in Germany March 19, 1928. Renewed May 26, 1933
25 Claims. (Cl. 122—24)

1. In a heater system, a combustion chamber for subjecting a combustible mixture to combustion under high pressure, a plurality of heat exchangers, and means operatively connected with the combustion chamber for discharging the combustion gases from said chamber first through

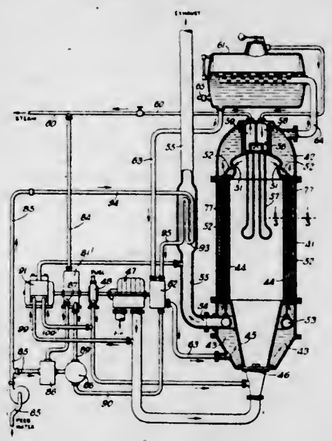


one of said heat exchangers and then from said chamber through another of said heat exchangers.

1,948,537
STEAM GENERATOR

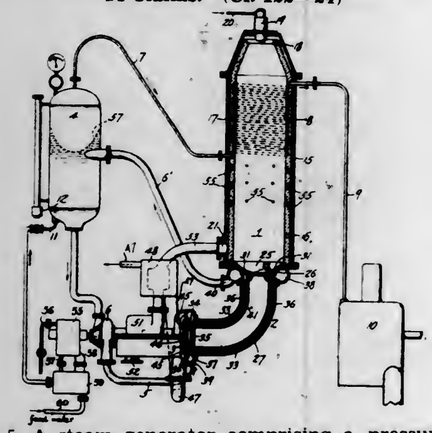
Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland, a joint-stock company of Switzerland

Application December 16, 1929, Serial No. 414,428, and in Germany December 19, 1928
17 Claims. (Cl. 122—24)



1. A steam generator comprising a pressure-proof combustion chamber, means including compressor means for continuously supplying a combustible charge of a predetermined pressure range to said chamber and for subjecting said charge to continuous combustion therein at the supplied pressure, a heat exchanger having gas discharge ducts connected to said combustion chamber proportioned and constructed to cause the pressure of the hot combustion gases in said chamber to drive said combustion gases through said ducts at a velocity of about 200 meters per second or more, and means for passing a steam generating fluid to be heated around said ducts.

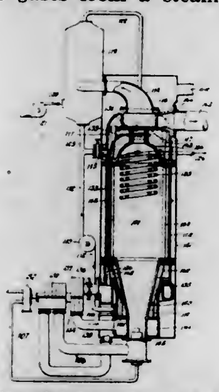
1,948,538
STEAM GENERATOR
Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application January 7, 1930, Serial No. 419,026, and in Germany January 14, 1929
14 Claims. (Cl. 122—24)



5. A steam generator comprising a pressure-proof combustion chamber, means including a compressor for continously supplying to said chamber a combustible charge under pressure and subjecting said charge to continuous combustion producing therefrom hot combustion gases of high pressure head in said chamber, a gas turbine for driving said compressor, heat exchange means for holding a steam generating fluid having heating surfaces constituting ducts connected between said chamber and said gas turbine, said ducts having expansion nozzles at their chamber inlets, and being proportioned and constructed to apply the pressure head of the gases in said chamber for imparting to the hot combustion gases a high velocity of the order of 200 meters per second or more at the chamber inlets into said ducts, driving the gases through said ducts to transfer the heat of the gases to said fluid and generate steam, and to discharge the cooled down high velocity gases from the ducts into said turbine for driving the same.

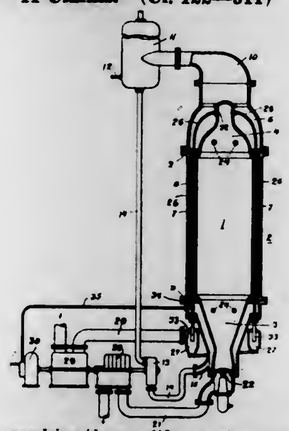
1,948,539
STEAM GENERATOR
Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland, a joint-stock company of Switzerland
Application August 20, 1931, Serial No. 558,260, and in Germany September 3, 1930
6 Claims. (Cl. 122—24)

1. The method of generating steam which comprises, initially compressing a gaseous body in a compressor and forming therewith a combustible charge of a substantial pressure head, subjecting said charge to continuous combustion under pressure, utilizing the upper part of the pressure head of the combustion gases for imparting to them a velocity of the order of one hundred fifty meters per second or more along a heat-exchange surface separating the gases from a steam generating fluid to transfer heat thereto and generate steam, utilizing the next lower part of the pressure head of the combustion gases leaving said first heat-exchange surface for impelling a gas turbine driving said compressor and applying the power developed in said gas turbine for initially compressing said gaseous body, utilizing the remaining part of the pressure head of the gases leaving the gas turbine for imparting to said gases a velocity above one hundred meters per second along a second heat-exchange surface separating the gases from a steam generating



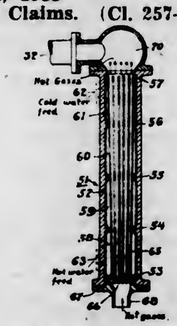
fluid to transfer thereto remnant heat of the gases, and maintaining the expansion ratio in the gas turbine sufficiently less than the compression ratio of the compressor to provide in the combustion gases before and after the turbine pressure drops sufficient to impart to said gases said high velocities.

1,948,540
STEAM GENERATOR
Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application August 20, 1931, Serial No. 558,262, and in Germany September 1, 1930. Renewed October 14, 1933
11 Claims. (Cl. 122—511)



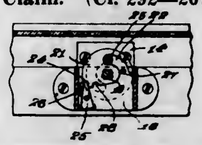
1. The combination with a steam generator comprising a pressure-proof combustion chamber, and means for supplying a combustible charge to said chamber and for subjecting said charge to combustion within said chamber to produce hot combustion gases of a pressure higher than the external pressure, of a heat exchanger having a plurality of gas tubes connected to said chamber and arranged to cause the pressure within the chamber to impart to the hot combustion gases a velocity of about 200 meters per second or more through nozzle-like entrances into said tubes, tubular enclosure means surrounding said tubes for passing a steam generating fluid at a pressure higher than the external pressure, the inlet ends of said tubes having nozzle-like constrictions to impart to the combustion gases said high velocity at the entrance into the tubes, and the outlet ends of said tubes being diffuser-like enlarged, increasing in cross section in the direction of the gas flow to slow down the outflowing gases and utilize their velocity for increasing the pressure at the outlet ends of the tubes above the pressure value in the portions lying back of the outlet points.

1,948,541
HEATER SYSTEM
Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application August 9, 1932, Serial No. 628,026, and in Germany December 16, 1929. Renewed October 14, 1933
6 Claims. (Cl. 257—224)



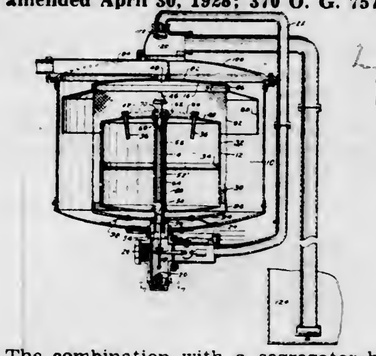
1. In a heater for abstracting the heat present in high-velocity gases of combustion of a steam generator, a casing for holding water to be vaporized, a plurality of groups of tubes extending through said casing, said tubes being flattened and of increasing cross sections and receiving hot gases at their small ends from the generator, and a manifold receiving the gases from said tubes.

1,948,542
SASH LOCK
Walter C. Repass, Portland, Oreg., assignor to National Ventilating Window Lock Company, Portland, Oreg., a corporation
Application March 28, 1932. Serial No. 601,638
1 Claim. (Cl. 292—267)



A sash lock comprising an elongated member secured to the meeting rails of one of the sashes, a housing having opposite open side edges secured to the meeting rail of the other sash, a handle having a squared portion extending through the housing adjacent one open end thereof, a plate on the squared portion of the operating handle, said plate being mounted within the housing for pivotal movement and provided with an arcuate slot opening out through one edge of the plate, the plate upon operation of the handle in one direction adapted to be projected beyond and through one of the open edges of the housing to receive a reduced portion of the elongated member, said plate provided in one edge thereof and to one side of the square portion of the handle with spaced notches, a spring actuated dog mounted in the housing adjacent one end wall thereof and flush with one of the open ends of said casing, one of the notches of the plate opening out in one corner portion thereof and the other notch being disposed inwardly of the spring actuated dog, a stop in the housing adjacent the opposite open end thereof, the said spring actuated dog engaging in one of said notches to retain said plate against movement and the said stop engaging the other of said notches for limiting the pivotal movement of the plate upon the release of the locking dog therefrom.

1,948,543
FLUID SEGREGATOR
David Samiran, Dayton, Ohio, assignor of one-half to Phillips Melville
Application March 12, 1930. Serial No. 435,243
27 Claims. (Cl. 210—54)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



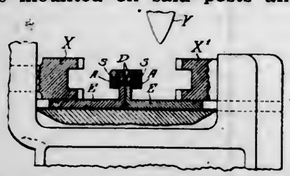
1. The combination with a segregator having a mechanism adapted to segregate non-miscible fluids of different specific gravities flowing therethrough from a source of supply, said mechanism including an automatically controlled valve through which the heavier fluids are discharged, of suction means in communication with said segregator for withdrawing the fluid of lighter specific gravity therefrom, valve means associated with said suction means and said discharge valve for shutting said segregator to atmosphere when said suction means is operative, and means for automatically opening said valve means when said suction means is inoperative.

25. In a segregator mechanism comprising a chamber, a float operated valve mechanism disposed within said chamber and means completely enclosing said float operated valve operated mechanism and spaced substantially entirely from the walls of said chamber, said means comprising an upper deflector, a lower deflector, and a sieve interposed between said upper and lower deflectors.

1,948,544
TOOL FOR FORMING AXLE HOUSINGS
Albert Common Scott, Oaken, England
Application November 24, 1930, Serial No. 497,691, and in Great Britain November 29, 1929
4 Claims. (Cl. 153—48)

1. A tool for forming flanged annuli of axle housings and the like comprising a pair of sup-

porting plates butted together and adapted to be moved apart, a supporting portion rising out of said plates at the ends thereof, said posts abutting each other when said plates are butted together, the engaging face of each post being cut away at the free end of the post to form a V-shaped slot for receiving a spreading tool, forming blocks mounted on said posts and spaced

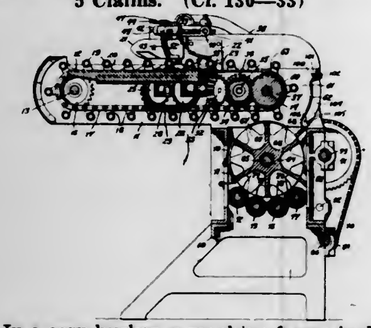


from said plates, said blocks being formed as segments of a cylinder and adapted to lie on the circumference thereof when said plates are spread by a tool registered with said slot, there being a portion of said blocks separable from the rest and adapted to remain on the circumference of said cylinder when said plates are reabutted by the withdrawal of said spreading tool.

1,948,545
CONVEYER FOR FEEDING CORN HUSKING MACHINES

Ogden S. Sells, San Francisco, Calif., and Henry J. Wheeler, Buffalo, N. Y., assignors to Sprague-Sells Corp., Hoopeston, Ill., a corporation of Illinois

Original application July 2, 1929, Serial No. 375,445, now Patent No. 1,927,957, dated September 26, 1933. Divided and this application May 9, 1931. Serial No. 536,231
5 Claims. (Cl. 130—33)



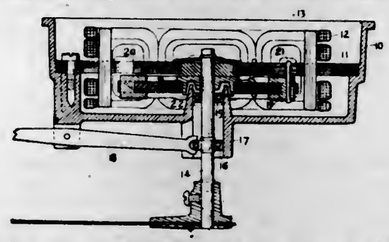
1. In a corn husker, a machine frame including side plates, a table on said side plates, means for conveying the ears of corn along said table, husking devices arranged below the rear end of said table, a cross rod between said side plates beyond the rear end of said table, a rear cross plate hung on said cross rod and forming a vertical way for conducting the ears of corn from said table to said husking devices and means for adjustably moving the lower end of said plate toward and from said table to vary the effective size of said vertical way.

1,948,546
TELEVISION MOTOR

Millard Cole Spencer, East Orange, N. J., assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J., a corporation of New Jersey

Application March 18, 1932. Serial No. 599,665
2 Claims. (Cl. 172—120)

1. In a motor, a stator having two windings in displaced phase relation for producing a revolving magnetic field and a bearing hub, a rotor with two members one member having strong synchronous motor characteristics and normally located within the influence of the revolving magnetic field and the other member having strong starting characteristics normally located outside the influence of the revolving magnetic field, a shaft on which the two rotor members are mounted, two ball bearings mounted in the hub for supporting the shaft one of the ball bearings having its outer race fixed in the hub



and its inner race free to slide on the shaft and the other ball bearing having its inner race fixed on the shaft and its outer race free to slide in the hub, and a hand operated forked lever with its forks engaged with the outer race of the ball bearing which is free to slide in the hub by means of which the shaft may be moved in an axial direction and the rotor member having strong starting characteristics brought within the influence of the revolving magnetic field at starting.

1,948,547
LAST AND SHOE GRADING

Laurence E. Topham, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application March 15, 1930. Serial No. 436,197
5 Claims. (Cl. 12—142)



1. That improvement in manufacturing lasts which consists in generating from a given model irrespective of its style or dimensions a series of lasts having a progressively varying dimensional characteristic, by making the ratios of the numerical values of said characteristic in each two successive lasts of the series all equal to the same number irrespective of the dimensions of the model.

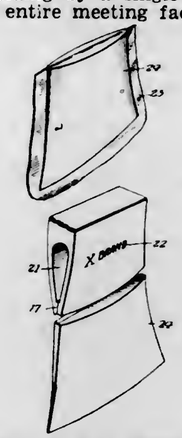
1,948,548
MANUFACTURE OF SINGLE BLADED FORGED AX HEADS

Howard Adams Vaughan, Gunar Olson, and Erick Erickson, Chicago, Ill., assignors to Vaughan & Bushnell Mfg. Co., Chicago, Ill., a corporation of Illinois

Application April 17, 1930. Serial No. 444,926
2 Claims. (Cl. 76—103)

1. That improvement in the manufacture of axes which consists in drop forging metal into a poll blank with a central portion and outwardly extending side portions adapted to form a handle socket between them and meeting portions terminating immediately below the socket and only of substantially sufficient height to form a

weld-joint between their meeting faces, bending the side portions together to form said socket and electrically welding by a single operation substantially the entire meeting faces of said side



portions together, and a cutting blade which forms substantially the entire working area of the ax to the ends of the side portions immediately adjacent the socket.

1,948,549
MANUFACTURE OF DOUBLE-BLADED, FORGED AX HEADS

Sanford S. Vaughan, Chicago, Ill., assignor to Vaughan & Bushnell Mfg. Co., Chicago, Ill., a corporation of Illinois

Application April 17, 1930. Serial No. 444,932
1 Claim. (Cl. 76—103)



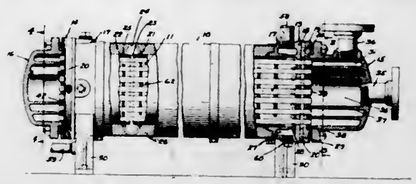
That improvement in the manufacture of double bladed, forged ax heads which consists first in drop forging separate pieces of heated metal to form a pair of complemental poll sides shaped so that when placed together they form a handle socket therebetween and having comparatively short ribs at the ends thereof adapted to abut against one another to close the ends of the socket and terminating immediately outwardly of the socket ends, then placing the poll sides together and arranging a pair of substantially full length blades adjacent the ends of the socket respectively and in abutting relation with respect to the ribs, and finally by a single electric welding operation uniting together the abutting faces of the ribs at one end of the handle socket and joining to such ribs the full length blade adjacent said one end of the socket and by a second single electric welding operation uniting together the abutting faces of the ribs at the other end of the socket and joining to such ribs the full length blade adjacent said other end of the socket.

1,948,550
OIL HEATER

Joseph T. Voorheis, Los Angeles, Calif.

Application July 23, 1932. Serial No. 624,305
12 Claims. (Cl. 257—240)

1. A device of the character described comprising a tubular shell, a tube nest extending therethrough, domes at the opposite ends of the tube nest and partition members in said domes whereby a fluid will be caused to flow through



groups of the tubes in multipass arrangement and whereby the sectional area of the tubes of successive groups progressively vary.

1,948,551
PRESERVING WOOD

Harold W. Walker, Hamilton, Ohio, assignor to Pennsylvania Lubricating Company, a corporation of Delaware

No Drawing. Application April 19, 1930
Serial No. 445,838
17 Claims. (Cl. 99—12)

1. The method of preserving wood which comprises admixing diphenylamine and arsenic trichlorid with an organic oil and impregnating wood with the mixture.

1,948,552
RAY AVIATION COMPASS

Sigvard Leo Weber, Brydon Baker, and Edward W. Jensen, Los Angeles, Calif.

Application May 16, 1932. Serial No. 611,466
7 Claims. (Cl. 250—11)



3. In navigation the method of indicating the direction of a reference point on board a moving craft that comprises radiating Roentgen rays from the reference point, intercepting some of said rays on board said craft, and determining the direction of propagation of the intercepted rays.

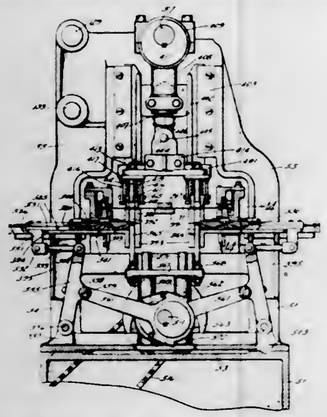
1,948,553
APPARATUS FOR PREPARING CONTAINER BLANKS

Magnus E. Widell, Cincinnati, Ohio, assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application January 1, 1931. Serial No. 506,000
17 Claims. (Cl. 113—1)

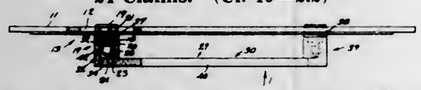
1. In an apparatus for preparing container blanks, the combination of transfer devices for advancing container blanks through the machine, forming means for producing bail ear seats in said blanks, assembling instrumentalities for positioning formed bail ears on said seats, said forming means and said assembling instrumentalities being arranged at pairs of stations along and at each side of the center of the path of the blanks, power means arranged above and between said pairs of stations, power means arranged below and between said pairs of

stations, and cross-head elements extended from said power means to said stations and carrying



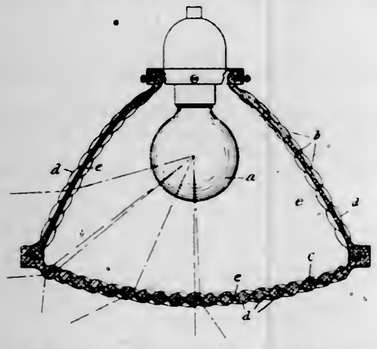
the movable forming means and assembling instrumentalities.

1,948,554
LICENSE PLATE LOCK BAR
Harrison Graham Williams, Los Angeles, Calif.
Application June 18, 1931. Serial No. 545,173
24 Claims. (Cl. 40—2.2)



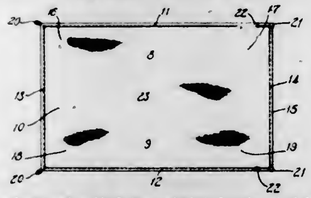
1. In a device as described, the combination of a license plate, a plurality of bolts connected thereto and adapted for detachably securing the plate to a supporting frame, an indicia bearing bar having a plurality of hubs, one for each bolt, and an interengaging attachment means between the hub and the bolt to attach the hub to the bolt, and being disconnectible only after breakage of the hub, and said attachment means preventing detaching of the bolt from the license plate.

1,948,555
LUMINAIR
Russell A. Wood, Cambridge, Mass.
Application April 22, 1932. Serial No. 606,920
8 Claims. (Cl. 240—106)



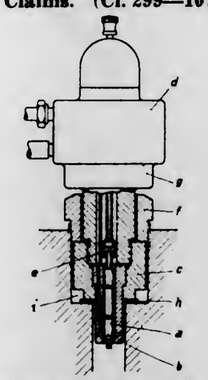
1. A luminair comprising a light source, a glass refractor therefor having one of its surfaces composed of a series of spirally formed ribs arranged side by side.

1,948,556
HAIRDRESS PROTECTOR
Colette Armsby, New York, N. Y.
Application April 10, 1933. Serial No. 665,305
3 Claims. (Cl. 2—174)



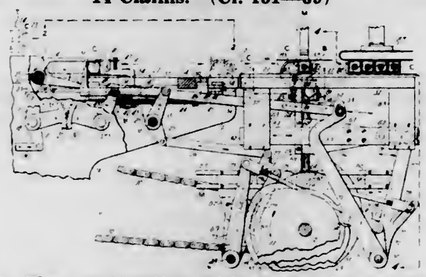
1. A relatively light weight body foldable into a cap, the body having a forward edge of a length substantially equal to the perimeter of a member to be embraced, complementary fastening means carried by said edge for detachably securing together the ends thereof at the back of said member, the body having a rear edge of a length substantially equal to the length of the front edge and disposable at the back of said member, said rear edge having complementary fastening means at the ends thereof, the ends of the rear edge being adapted to be swung forwardly and upwardly relative to said member and above said front edge for disconnectably securing together the ends of said rear edge against said body at or above a medial portion of said front edge.

1,948,557
FUEL SPRAYING NOZZLE
Ottmar Baur, Stuttgart, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany
Application June 2, 1932, Serial No. 615,005
In Germany July 3, 1931
3 Claims. (Cl. 299—107.1)



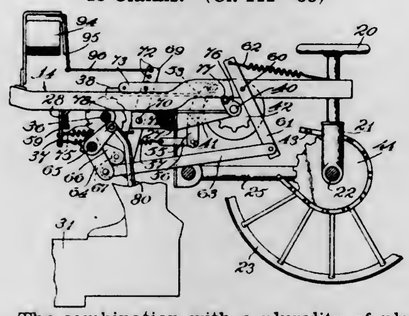
3. In a fuel spraying device for internal combustion engines, the combination with an engine having a threaded and countersunk aperture through a cylinder wall presenting said aperture with a shoulder inwardly of the threads, of a holder and a spraying nozzle of less diameter than said holder adapted for free end-to-end abutting engagement with said holder within said aperture, said holder having an exterior thread and said nozzle having an abutment intermediate its ends, and sleeve means surrounding said holder and nozzle in such engagement with said thread on said holder and said abutment on said nozzle within said aperture and with said shoulder and threads of said aperture as to exert an endwise pressure on said nozzle clamping the same to said holder and securing said holder and nozzle within said aperture, the points of engagement of said sleeve means with said shoulder, said abutment on said nozzle, said thread of said holder and said threads of said aperture being such that the pressure lines through said points of engagement do not extend inwardly of said nozzle beyond the abutment thereof.

1,948,558
CIGAR TRANSFER FOR ENVELOPING AND BANDING MACHINES
Robert J. Beutel, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application March 29, 1933. Serial No. 663,398
14 Claims. (Cl. 131—39)



1. The combination with means for gripping a cigar, of mechanism for rotating said means one half-turn to reverse the gripped cigar end for end, and a clamping device for removing the cigar from said means after it is reversed and carrying it to band-applying position.

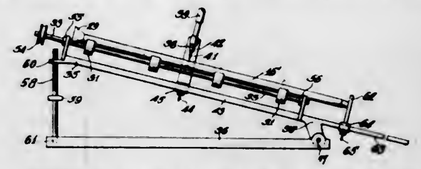
1,948,559
ELECTRICAL RELEASE FOR PLANTERS
John C. Bohmker, Kankakee, Ill.
Application September 14, 1931
Serial No. 562,612
13 Claims. (Cl. 111—38)



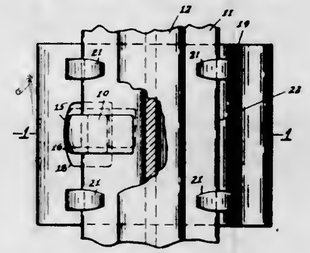
1. The combination with a plurality of planter units, each planting unit being provided with seed planting mechanisms, and check wire operated electrically controlled means for releasing all of said planting mechanisms simultaneously.

1,948,560
FUNNEL GUIDE AND METHOD OF MAKING IT
George Borneman, Millville, N. J.
Application November 30, 1929
Serial No. 410,684
2 Claims. (Cl. 49—7)

1. The method of concurrently constricting a glass tube intermediate its ends and strengthening it at the point of constriction which consists in inclining the tube at an angle above the horizontal and below the vertical, in rotating the tube, in locally heating the tube and in supporting the tube on both sides of the point of heating, whereby glass is supplied to the point of heating by longitudinal movement of the part of the tube above the point of heating and the tube is concurrently constricted.

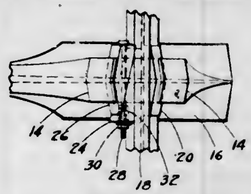


1,948,561
ANTICREEPING DEVICE FOR RAILWAY RAILS
Gus L. Colbie, Brooklyn, N. Y., assignor to Chase Appliance Corporation, New York, N. Y., a corporation of New York
Application December 23, 1930
Serial No. 504,244
10 Claims. (Cl. 238—304)



1. An anti-creeping device for railway rails which comprises a curved substantially U-shaped strap or clip of spring metal embracing the edge of the base flange of the rail, the strap spaced from the flange except at its ends and near the edge of the flange, a tie-plate on which the rail is disposed, said plate having an opening therein into which opening the clip extends when in place, and means on the clip and the tie-plate for moving the clip on to the rail further in a straight line longitudinal manner perpendicular to the center of the rail when the rail tends to creep in either direction.

1,948,562
METAL CROSSTIE
Gus L. Colbie, Brooklyn, N. Y., assignor to Chase Appliance Corporation, New York, N. Y., a corporation of New York
Application March 12, 1931. Serial No. 522,127
9 Claims. (Cl. 238—66)



1. In a metal cross tie, a rolled member of substantially I beam cross section having broadened supporting surfaces under and in the vi-

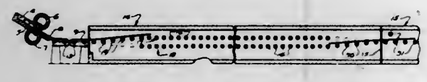
cinity of the supported rail and a reduced supporting surface between said rails and having a web of variable thickness.

1,948,563

APPARATUS FOR PRODUCING SHEET GLASS

Carroll Cone, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application May 31, 1930. Serial No. 458,163
12 Claims. (Cl. 49—3)



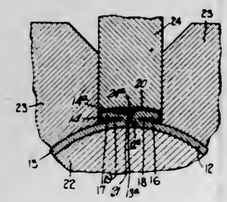
1. In apparatus for the manufacture of sheet glass, means for forming successive sheets of glass, an annealing leer having conveying means therein for carrying the sheets therethrough, a plurality of superposed runways arranged within the leer in advance of said conveying means, conveyor means for directing the successive sheets formed onto either of said runways, means for driving said conveyor means at one speed, a second conveyor means for directing the sheets from said runways onto the conveying means in said leer, and means for driving said second conveyor means at a speed different from the speed of the first mentioned conveyor means.

1,948,564

METHOD OF FORMING A FITTING

Edward S. Cornell, Jr., Larchmont, N. Y.

Application April 16, 1932. Serial No. 605,576
1 Claim. (Cl. 29—157)



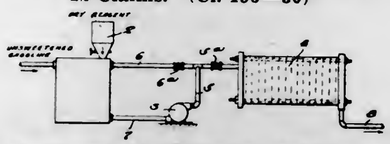
The improved method of forming a fitting having a substantially cylindrical hollow body provided with opposite end openings and a lateral opening communicating with the interior of the hollow body and disposed intermediate the body end openings, which comprises forming from a single sheet of ductile metal the body and the body end portions and the lateral end portion integrally with one another, the edges of the sheet being brought into juxtaposition, bending the juxtaposed edge portions outwardly to form flanges, interconnecting such resulting outward flanges by an inversely bent connecting strip, interposing relatively soft material between the flanges and the body portion of the interconnecting strip and locking and sealing the joint between the outward flanges and the interconnecting strip by applying pressure jointly to the interconnecting strip, the body flanges and the interposed relatively soft material while indenting the body of the interconnecting strip centrally and longitudinally to displace the relatively soft material toward and within the joint between the meeting faces of the body flanges and between the body flanges of the interconnecting strip under sufficient pressure as to effect a cold flow interlocking between the stated parts.

1,948,565

PROCESS OF SWEETENING GASOLINE

Roland B. Day, Palos Verdes Estates, Calif., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Application February 27, 1931, Serial No. 518,796
12 Claims. (Cl. 196—30)



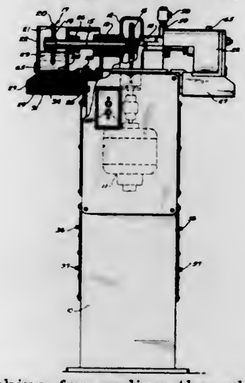
11. A process of improving gasoline, which process comprises treating the gasoline with a mixture of a copper compound and ammonium chloride, and collecting the resultant gasoline.

1,948,566

MACHINE FOR SEALING LAMINATED GLASS

John L. Drake, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application March 16, 1929. Serial No. 347,559
3 Claims. (Cl. 49—81)



1. A machine for sealing the edges of laminated sheet glass, including a housing, a horizontal shaft rotatably carried thereby, a sealing wheel mounted upon said shaft, a receptacle within which the sealing wheel is disposed, said receptacle adapted to contain a sealing liquid within which the sealing wheel is immersed, a hollow bracket carried by the housing for supporting the receptacle, said bracket having a recess in its upper surface, electric heating means disposed within said recess and positioned beneath the receptacle and insulating means within said hollow bracket beneath said heating means.

1,948,567

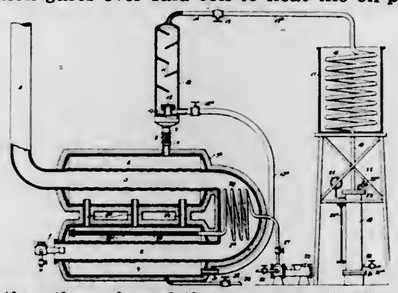
APPARATUS FOR CRACKING HYDROCARBON OILS TO PRODUCE LIGHT OILS

Gustav Egloff and Harry P. Benner, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Original application June 28, 1920, Serial No. 392,475. Divided and this application March 11, 1927. Serial No. 174,445
6 Claims. (Cl. 196—128)

6. An apparatus for cracking hydrocarbon oil comprising a heating coil and means for passing oil therethrough, an enlarged chamber and means for discharging the oil thereinto from the coil for separation into vapors and residuum,

means for separately removing vapors and residuum from said chamber, a second chamber and means for transferring vapors thereto from the first mentioned chamber, means for passing combustion gases over said coil to heat the oil pass-



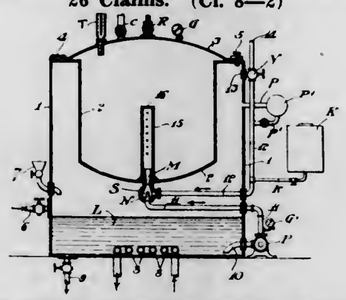
ing therethrough and thence internally through said second chamber in heat exchange relation but out of contact with the vapors therein, and means for removing the vapors from said second chamber.

1,948,568

METHOD OF TREATING TEXTILE MATERIALS AND THE LIKE

Leon De R. Faber and Charles J. Carroll, Philadelphia, Pa., assignors to Faber Engineering Company, Philadelphia, Pa., a corporation of Delaware

Application April 28, 1930. Serial No. 448,114
26 Claims. (Cl. 8—2)



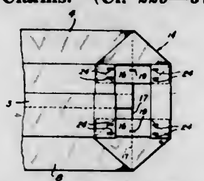
26. A method of treating material, which comprises generating foam whose bubbles carry a treating agent, applying the bubbles to the material, and utilizing a difference in pressure on opposite sides of the material to force the constituents of the bubbles therethrough.

1,948,569

PAPER BAG

Theodore S. Falk, Brooklyn, N. Y., assignor to Continental Paper and Bag Corp., New York, N. Y., a corporation of Delaware

Application October 28, 1930. Serial No. 491,661
4 Claims. (Cl. 229—57)



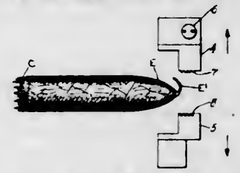
1. A paper bag including a body portion and a polygonal bottom portion, the bottom portion having an opening therethrough and having reinforcements formed of doubled-over bag material, which are disposed along transversely related bottom margins bordering said opening and in crossing relation adjacent the corners of the opening, and means securing crossing areas of the doubled-over portions to one another.

1,948,570

CIGAR CELLOPHANE-ENVELOPE END-CRIMPING DEVICE

Lester Ferenci, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application June 20, 1930. Serial No. 462,599
4 Claims. (Cl. 93—2)



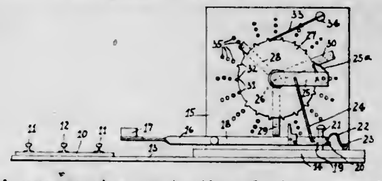
1. A crimping device for closing the ends of cigar envelopes, comprising a pair of cooperating relatively movable crimping blocks provided with a plurality of interengaging corrugations on their operating faces, one only of said blocks being heated, whereby to form a curled flap having a plurality of crimps on the ends of the envelope.

1,948,571

AUTOMATIC SWITCHING DEVICE FOR TOY AND OTHER ELECTRIC RAILROADS

Edward P. Fickeissen, Richmond Hill, N. Y.

Application July 19, 1932. Serial No. 623,327
2 Claims. (Cl. 200—11)



1. A progressive contacting device comprising a wall having a disc rotatably mounted adjacent thereto, a plurality of accurately spaced-apart radially arranged contacts on said wall, spaced-apart radial contact arms on said disc adapted to engage successively said contacts, a lever pivotally mounted intermediate its length adjacent said wall, means mounted partly on said lever and partly on said disc for rotating said disc through an arc upon depression of one end of said lever and consequent raising of the other end, said means being of such dimensions that upon a single depression of said end of said lever each of said contact arms disengages with one group of said contacts and engages with the next adjacent group.

1,948,572

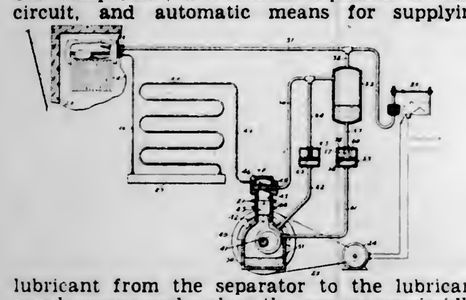
REFRIGERATING APPARATUS

William B. Floyd, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware

Application February 27, 1931. Serial No. 518,701
10 Claims. (Cl. 62—115)

1. Refrigerating apparatus comprising a closed circuit including a compressor, a condenser and a cooling unit, means for supplying lubricant to

the compressor, a lubricant separator in said circuit, and automatic means for supplying

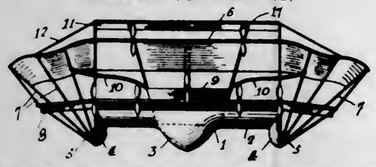


lubricant from the separator to the lubricant supply means only when the compressor is idle.

1,948,573
PROCESS FOR THE PRODUCTION OF RESIN-ACID CONDENSATION PRODUCTS
Ewald Fonrobert and Arthur Greth, Wiesbaden, Germany, assignors to Resinous Products & Chemical Co., Inc., Philadelphia, Pa.
No Drawing. Application January 28, 1930, Serial No. 424,131, and in Germany August 19, 1929
11 Claims. (Cl. 260—98)

1. A process for the production of resin acid condensation products, consisting in transforming the resin acid into its anhydride by heating the said acid with the anhydride of aliphatic monocarboxylic acid of the lower fatty acid series and thereupon treating the anhydride thus formed with alcohols.

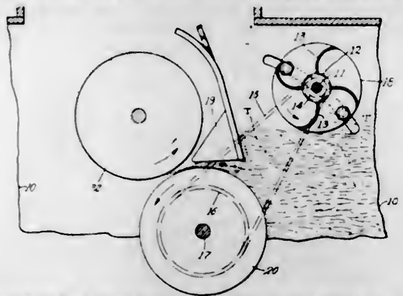
1,948,574
AIRCRAFT
Charles Louis Fortier, Montreal, Quebec, Canada
Application March 6, 1933. Serial No. 659,602
4 Claims. (Cl. 244—14)



1. Aircraft comprising a body having a broad horizontal bottom surface, a main plane supported over said body and overlapping the same laterally, a lower plane extending laterally from said bottom, propellers carried by said plane, elevating and steering means carried by said body, a keel projecting downwardly from the bottom of said body in the longitudinal center thereof, and semi-keels projecting downwardly from the longitudinal edges of said bottom.

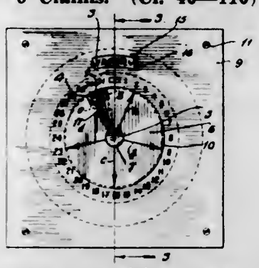
1,948,575
LEVELING DEVICE FOR CIGARETTE MACHINE FEEDS
George W. Gwinn, Hewlett, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application March 21, 1933. Serial No. 661,988
2 Claims. (Cl. 131—39)

1. In a cigarette machine feed, the combination with a hopper, of a feed drum, and a leveling device comprising shaft bearings adjustably secured to the side walls of said hopper, a cross shaft journaled in said bearings, a plurality of concavo-convex blades mounted on said cross shaft and extending continuously across said hopper, and means for driving said cross shaft to rotate said blades with their convex side foremost to



wipe back excess tobacco from the mass of tobacco on the feed drum without scattering it and to promote the rotation of the mass of tobacco.

1,948,576
PERPETUAL CALENDAR
Martin C. Haley, Detroit, Mich.
Application April 24, 1933. Serial No. 667,537
5 Claims. (Cl. 40—110)

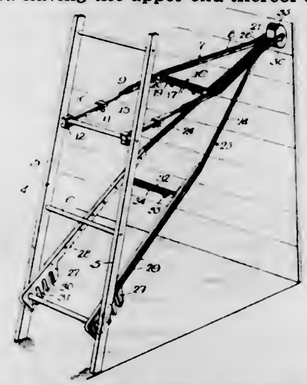


1. A calendar comprising, means having the days of the month arranged substantially in a closed area, a rotatable member within the area, indicating means on the member adapted to point respectively to the first four Sundays of the month, said rotatable member having an opening therein located with respect to the indicating means for the first Sunday so as to be located at the fifth Sunday in a month, and indicating means for each of the last several days of the month located underneath the rotatable member and adapted to be exposed by said opening.

1,948,577
LADDER SUPPORTING STRUCTURE
Fred S. Harsen, Chicago, Ill., assignor of one-half to Albert F. Kreutzer, Chicago, Ill.
Application June 19, 1930. Serial No. 462,214
3 Claims. (Cl. 228—60)

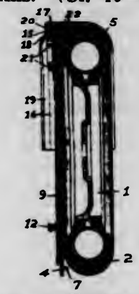
1. In a structure for supporting a ladder in spaced relation with respect to a wall, the combination of a substantially horizontally extending strut consisting of a pair of laterally spaced side bars, the inner ends of which are provided with hook-members for engaging one of the ladder rungs and connecting the strut pivotally to the ladder and the outer ends of which are bent inwardly so that they converge, and are provided at the outer extremities thereof with a pin whereby they are cross-connected and held a slight distance apart, a shoe for engaging the wall positioned between said outer extremities of the outer ends of the side bars and mounted on the pin, an extensible arm extending between and connected to the central portions of the side bars

at substantially the points where the outer ends of the side bars are bent into converging relation and serving to hold the bars apart, and an obliquely extending brace disposed beneath the strut and having the upper end thereof connected



pivotally to the outer ends of the strut-forming side bars directly inwardly of the shoe and its lower end connected adjustably to the ladder so that it may be adjusted angularly with respect to the ladder.

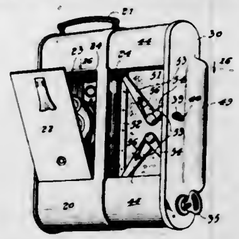
1,948,578
VEHICLE ADVERTISING SIGN
William G. Hasley, Pittsburgh, Pa.
Application September 30, 1931
Serial No. 565,955
6 Claims. (Cl. 40—130)



4. In combination, a display sign comprising a supporting plate adapted to be attached against one side of the tire of a motor vehicle wheel, a display plate, means for removably securing the latter against said supporting plate, reflector member carried by said supporting plate, and an illuminating element mounted in said reflector member, said reflector member visibly displaying said illuminating element from the rearward side thereof and further directing the light from said element downwardly to illuminate said display plate, said reflector member and said illuminating element being disposed on the peripheral edge margin of said supporting plate.

1,948,579
CAMERA
Walter William Hook, Los Angeles, Calif.
Application February 26, 1932. Serial No. 595,272
9 Claims. (Cl. 95—32)

1. A camera comprising an enclosure equipped with a lens, shutter, focusing means and other devices for taking photographs and including a displaceable rearwardly yielding spring-held focusing screen in proper relation to said lens; a film carrying frame laterally removable from said enclosure and equipped with a film mounting and guide arranged to guide a photographic film in proper relation to said lens; a removable and replaceable opaque guard curtain for said film on said frame; and means for automatically dis-

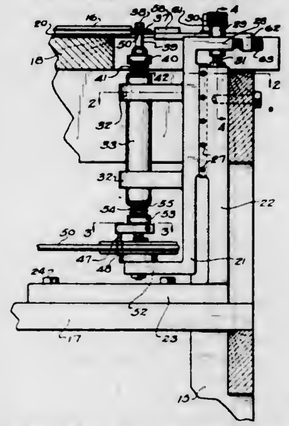


placing both said screen and curtain upon shifting of said frame to bring said film into proper relation to said lens and automatically restore both said screen and curtain upon reverse shifting of said frame.

1,948,580
NONCHALKING COATING COMPOSITION
Robert T. Hucks, Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 5, 1931
Serial No. 513,787
5 Claims. (Cl. 134—79)

1. A coating composition adapted to give an opaque film resistant to chalking comprising a cellulose compound vehicle adapted to give a chalking film when combined with zinc oxide, and zirconium oxide as the sole white pigment in said composition.

1,948,581
APPARATUS FOR GROOVING LAMINATED GLASS
William G. Hullhorst, Toledo, Ohio; Stella B. Hullhorst, executrix of said William G. Hullhorst, deceased, assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio
Application September 10, 1928
Serial No. 305,072
9 Claims. (Cl. 90—11)



7. An apparatus for undercutting laminated glass consisting of two sheets of glass and an interposed non-brittle membrane, including a freely floating shaft and a wobbly saw carried thereby, said saw being adapted to be received between the two glass sheets of the laminated structure.

1,948,582
ANTIOXIDANTS
James K. Hunt and George H. Latham, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 21, 1931
Serial No. 517,631
3 Claims. (Cl. 134—26)

1. A coating composition comprising a drying oil, a positive oxidation catalyst and creosole, the respective amount and character of said positive oxidation catalyst and creosole being sufficient to prevent oxidation of the composition in the bulk state without materially retarding the normal drying rate of the composition in the thin film form.

1,948,583
METHOD OF AND EXPLOSIVE FOR BLASTING DEEP WELL HOLES
John M. Jeffries, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 9, 1931
Serial No. 579,988
12 Claims. (Cl. 102—6)

1. An explosive of the character described comprising a main body of gelatinous dynamite, and a core of less gelatinous dynamite therein, said core having a propagation sensitiveness materially in excess of that of the main charge under the conditions of use.

1,948,584
TRIPOD STABILIZER
Earl K. Johnson, Tacoma, Wash.
Application November 11, 1932
Serial No. 642,149
1 Claim. (Cl. 248—43)



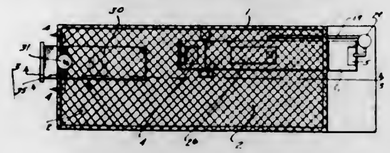
In a tripod of the class described, a stabilizer, comprising a stay member pivotally fixed to each leg of said tripod, the inner ends of said stay members slidably engaged in triangular form within a central locking device having a cylindrical inclosure, and each of said stay members so inserted as to pass above one and below the other of its contacting members within the said cylindrical inclosure of said central locking device.

1,948,585
PROCESS OF PURIFYING NORMALLY SOLID CHEMICAL COMPOUNDS
Stephen Józsa, New York, N. Y., assignor to Standard Brands Incorporated, Dover, Del., a corporation of Delaware
No Drawing. Application October 24, 1929
Serial No. 402,303
5 Claims. (Cl. 260—122)

1. A process of separating normally solid chemical compounds from impurities carried thereby, which comprises dissolving the impure material in a solvent; adding the solution to a second solvent in which the solute to be purified is insoluble and from which it precipitates, in which the impurities are soluble, and with which the first mentioned solvent is readily miscible; and removing the precipitate of said solute from the second solvent; the mixing of the first mentioned solution into the second solvent being carried out by injection in a finely divided condition so that agglomeration of the said solute is substantially avoided.

4. The method of purifying stearic acid from water soluble impurities which comprises preparing an alcohol solution containing about 5% of impure stearic acid and injecting said solution in a finely divided condition into water, and thereafter skimming off the precipitate of stearic acid and drying in a vacuum.

1,948,586
ANIMAL TRAP
James W. Mace, Rainier, Oreg., assignor of one-half to Amos O. Wing, Rainier, Oreg.
Application June 15, 1932. Serial No. 617,439
2 Claims. (Cl. 43—76)

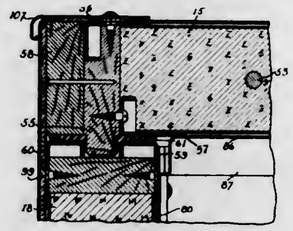


1. In a device of the class described, the combination of a cage formed of wire mesh, a trapping pen disposed within and at one end of the cage and forming one end wall thereof, an entrance-way formed through the end wall of the trapping pen and a door adapted to be closed by gravity arranged adjacent said entranceway, a platform yieldingly mounted on the floor of the cage, an arm secured to the outermost end of the platform and extending forwardly with respect thereto, a trigger carried by the free end of said arm and adapted to normally maintain the door in raised position and adapted to release the door when weight is applied to the platform, a second platform hingedly mounted on the floor of the trapping pen in advance of the first mentioned platform and formed with a downwardly extending apron, said trapping pen having an opening in the opposite end wall adjacent the path of movement of the second platform and said apron, an arm secured to the second platform and extending forwardly therefrom to a point outside the opposite end of the trapping pen, weighted means secured to the outermost end of said arm, and said outermost end of said arm terminating at a point beneath the lower edge of said door, so that normally the apron is held across the second opening until weight is applied to the second platform at which time the said second opening is uncovered by the downward swing of the second platform and at the same time its forwardly extending arm lifts the first mentioned door clear of the entranceway, said trigger being adapted to hold the door in lifted position.

1,948,587
REFRIGERATING APPARATUS
John A. Macready and William H. Matthews, Dayton, Ohio, assignors to Frigidaire Corporation, Dayton, Ohio, a corporation of Delaware
Application June 29, 1929. Serial No. 374,640
4 Claims. (Cl. 220—9)

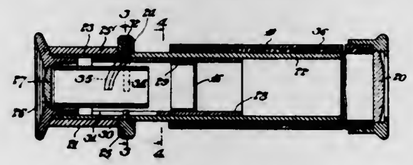
1. A knock-down refrigerator cabinet comprising a plurality of walls, each wall including inner and outer spaced metal plates, insulating material between said plates, some of said walls having the metal plates extending inwardly and bent

to form a groove, the complementary walls having tongues extending into said grooves, thereby



providing a breaker strip between said metal walls.

1,948,588
OPTICAL SYSTEM
William G. Martin, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 13, 1930. Serial No. 428,012
2 Claims. (Cl. 88—32)

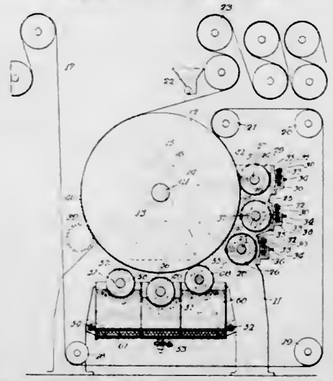


1. A telescope for reading an instrument scale comprising an objective tube carrying an objective lens in fixed relation thereto, a second tube telescoping therewith and having a substantial range of movement longitudinally thereof, an eyepiece carried by said second tube in fixed relation thereto, a cross-hair, a third tube within said second tube and carrying said cross-hair, adjustment of said second tube to effect sharp definition of said scale simultaneously effecting equal movement of the cross-hair to an approximately correct position, and means adjustable externally of said second tube for longitudinally moving said third tube smoothly continuously through a limited range with respect thereto while maintaining said adjustment of said second tube, to effect precise adjustment of the cross-hair to a position of zero parallax between the sharply defined scale and the cross-hair without regard to the effect upon definition of the cross-hair.

1,948,589
COMPOSITIONS AND SOLUTIONS FOR USE IN DYEING AND TEXTILE PRINTING
Mordecai Mendoza, West Didsbury, and Arthur George Murray, Whitefield, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application April 25, 1932, Serial No. 607,494, and in Great Britain May 1, 1931
12 Claims. (Cl. 8—6)

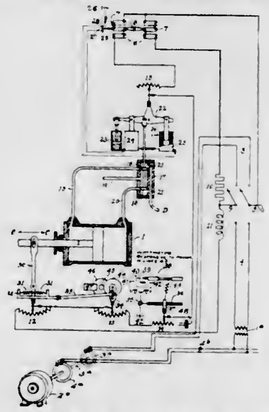
1. As a new composition of matter a dry mixture comprising an N-sulphonic acid, selected from the group consisting of aryldiazonium sulphonic acids, arylhydrazine-$\alpha\beta$- disulphonic acids and α-arylhydrazine-β-sulphonic acids, derived from arylamines free from hydroxyl, sulphonic or carboxylic acid groups, together with an agent which in acidified aqueous solution has oxidizing properties.

1,948,590
PRINTING AND SLITTING MACHINE
Albert E. F. Moone, Chicago, Ill., assignor to The Lehon Company, a corporation of Illinois
Application February 29, 1932. Serial No. 595,697
4 Claims. (Cl. 101—226)



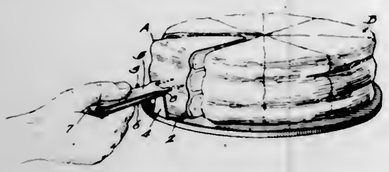
1. In a machine of the class described, a pair of side frames, an anvil roll journalled in the frames, a plurality of cutting cylinders mounted parallel to the anvil roll and adjacent its periphery, a like number of printing cylinders also mounted parallel to the anvil roll and adjacent its periphery, and means for separately moving each of said cutting and printing cylinders into engagement with the periphery of the roll.

1,948,591
ELECTRICAL GOVERNOR
Frank I. Morgan, Holtwood, Pa.
Application May 20, 1931. Serial No. 538,793
6 Claims. (Cl. 290—40)



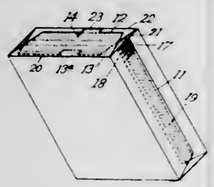
1. In combination a rotary prime mover, an operating fluid control device therefor and a source of alternating current operated thereby, a circuit for said alternating current having therein a current balance movement of which is adapted to initiate the operation of said control device, one line of said circuit having therein, in parallel, a resistance and an impedance so balanced that said current balance is balanced when said prime mover is revolving at a predetermined rate of speed and electrical means in series with one of said parallel circuits to vary the current therein proportionately to any variance of the current from said source to restore said current balance to balance.

1,948,592
CAKE KNIFE
William L. Nelson, Chicago, Ill., assignor to Conrad Pistorius, Chicago, Ill.
Application June 1, 1933. Serial No. 673,871
5 Claims. (Cl. 294—1)



1. In a cake serving instrument having a blade for engaging under so as to support a portion of divided cake to be served, a handle portion in limited resilient connection with the blade to extend rearward thereof and in offset or raised relation therefrom, a piercing element extending from the handle portion in its plane and over the rear part of the blade for engaging the cake portion so as to project therein upon the engagement of the blade under same for holding the cake portion on the blade when being served, whereby the handle portion is operable with respect to the blade to cause the piercing element to clamp the cake portion on the blade in slightly enlarging the opening in the cake made by the element.

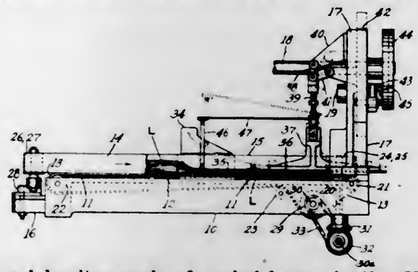
1,948,593
CIGARETTE PACKAGE
Morehead Patterson, New York, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application May 14, 1931. Serial No. 537,450
9 Claims. (Cl. 229—51)



1. A rectangular cigarette package with narrow and broad side faces having an outer wrapper folded about the package with an overlapping seam extending along one narrow side face and with overlapping sealed flaps at the end face of the package, and means for facilitating easy opening of a predetermined portion of the outer wrapper, said means comprising nicks for starting tears in the edge portions of the overlapping flaps and other spaced nicks in the edge portions only of the wrapper along the side seam near the end face of the package.

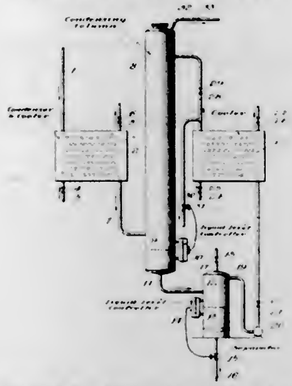
1,948,594
LEAF GUIDE FOR CIGAR FILLER FEEDS
Pontus Peterson, Hempstead, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application June 5, 1933. Serial No. 674,421
9 Claims. (Cl. 131—39)

1. In a cigar filler feed, the combination with a plurality of feed belts arranged to form a cigar filler feeding channel, of mechanism for driving said belts, vertically reciprocating means for compacting the filler in said channel, and a device actuated by said means for laying down the up-



turned leading ends of curled leaves in the filler within said channel before they reach said means.

1,948,595
TREATMENT OF VAPOR-GAS MIXTURES
Robert Pyzel, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application March 30, 1933. Serial No. 663,439
2 Claims. (Cl. 196—140)



1. A process for the treatment of heated vapor-gas mixtures containing fixed gases, condensable hydrocarbon vapors and steam to effect their separation, which comprises subjecting the heated mixture to condensation by indirect contact with a cooling medium whereby a portion of the hydrocarbon oil vapors and steam is condensed, then passing the mixture into a direct contact condensing column wherein an additional portion of the remaining liquefiable components of the mixture are condensed, withdrawing oil distillate and water from the condensing column to a separator wherein they are separated by stratification, removing water from the system, subjecting oil distillate from the separator to further cooling, returning a regulated portion thereof to the condensing column as a cooling and refluxing medium, withdrawing the remainder from the system and removing uncondensed gases from the upper portion of the condensing column.

1,948,596
WINDOW CONSTRUCTION
Edwin D. Ross, Grosse Pointe Park, Mich.
Application May 20, 1931. Serial No. 538,702
12 Claims. (Cl. 189—66)

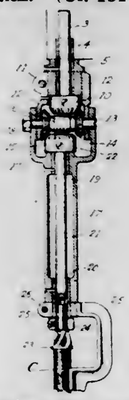
1. In a window, the combination of a frame having stile grooves therein, slides vertically movable in said grooves, sash plates pivotally

mounted on said slides, a sash mounted between said sash plates, an arm pivotally mounted on each of said slides, and slidably mounted in the sash said arm being disposed between the sash



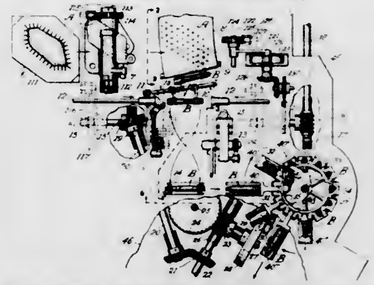
plates and said sash, and means limiting the pivotal movement of said sash and means operable in response to vertical movement of said sash for releasing said limiting means.

1,948,597
UNIVERSAL JOINT
Rupert E. Rundell, Rockville Center, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application October 20, 1932. Serial No. 638,821
1 Claim. (Cl. 131—39)



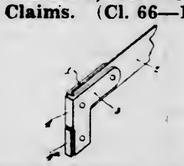
In a cigar knurler, the combination with a knurler head, of universally adjustable means for supporting the knurler head, and mechanism for rotating the knurler head in any adjusted position, said means including a stationary bracket, a socket rotatably mounted on said bracket, a device for releasably clamping said socket on said bracket, a threaded pin transversely disposed in said socket, a holder rotatably mounted on said pin, and a nut on the threaded portion of said pin for releasably clamping said holder to said socket, and said mechanism including a driven shaft journaled in said bracket, a knurler shaft journaled in said holder with its axis parallel to the axis of the driven shaft, said shafts being eccentric to each other, bevel gears on said shafts, and a pair of connected bevel gears loosely mounted on said pin and meshing with the gears on said driven and knurler shafts respectively, said knurler head being mounted on said knurler shaft, whereby the knurler shaft is driven in the same direction as the driven shaft.

1,948,598
CIGAR BUNCH MACHINE
Rupert E. Rundell, Rockville Center, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application December 16, 1932
Serial No. 647,665
15 Claims. (Cl. 131—5)



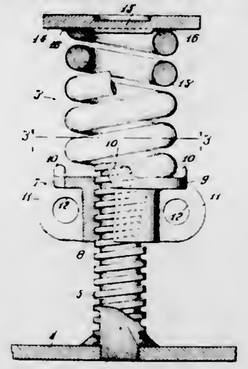
1. In a cigar machine, the combination with a bunch shaping device, of a bunch roller operating to roll filler tobacco in a binder with the binder projecting beyond the filler, mechanism for transferring bunches from said roller to said device including two laterally spaced sets of grippers arranged to grip the projecting end portions of the binder.

1,948,599
SINKER FOR KNITTING MACHINES
Harold E. Stout, West Reading, Pa.
Application December 8, 1932. Serial No. 646,249
7 Claims. (Cl. 66—110)



1. In a sinker for knitting machines, two side plates, a blade held between said side plates, and a striking surface overlying and contacting with the backs of the blade and at least one of the side plates.

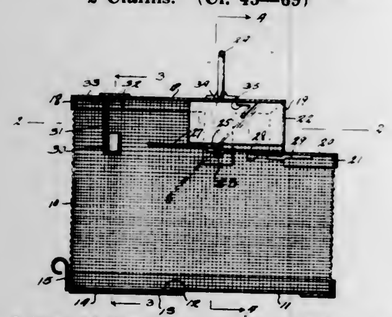
1,948,600
ADJUSTABLE DANCE FLOOR SUPPORT
Walter B. Templeton, Chicago, Ill.
Application August 15, 1931. Serial No. 557,261
2 Claims. (Cl. 254—98)



1. In a structure of the kind described a base member and a cap member, the latter being adapt-

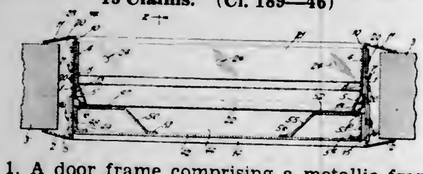
ed for engagement with the part to be supported, a screw post associated with the base, a nut on said post adjustable toward and away from the cap member and a spring fixed at one end to said cap member and having a bearing engagement at its other end upon said nut.

1,948,601
MOUSE AND RAT TRAP
Sanford E. Thomas, Spencer, Ind.
Application July 27, 1933. Serial No. 682,495
2 Claims. (Cl. 43—69)



1. A trap of the character described, comprising a body formed of wire mesh and having a bottom, the upper part of the body being stepped, a cap of sheet metal resting upon the upper end of the body and connected thereto and extending over the upper end of the body, the cap having a downwardly extending vertical portion and beyond the vertical portion a horizontal portion, the vertical portion being provided with a relatively small opening, the cap having depending ears inward of said opening, a shaft supported by said ears, a platform mounted upon said shaft for tilting movement, the outer end of the platform adjacent said inlet opening being overweighted, a stop carried by the horizontal portion of the top and disposed beneath the inlet opening, and adapted to support the platform in an approximately horizontal position, a bait holder removably supported by said cap and extending downward into said body and disposed on an approximate level with the inner end of the platform but in spaced relation thereto, and guard wings extending downward from the cap on each side of the tiltable platform and extending to the vertical wall of the cap.

1,948,602
DOORFRAME
Michael J. Tracy, St. Louis County, Mo., assignor to Pauly Jail Building Company, St. Louis, Mo., a corporation of Missouri
Application April 6, 1931. Serial No. 528,011
15 Claims. (Cl. 189—46)



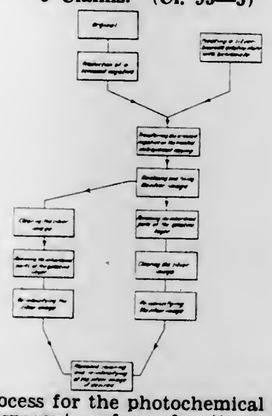
1. A door frame comprising a metallic frame, means for securing said frame in an opening in a wall, angular metallic abutments for the vertical and upper marginal portions of a door secured to said frame and extending angularly therefrom toward the door and having their abutting portions spaced from said frame and engaging the door only at a distance from the marginal portions of said door, and metallic sealing blocks in the upper corners of said frame having interlocking engagement with said abutments.

1,948,603
BINDER MECHANISM
Richard M. Watson, Detroit, Mich.
Application July 20, 1931. Serial No. 551,864
13 Claims. (Cl. 129—24)



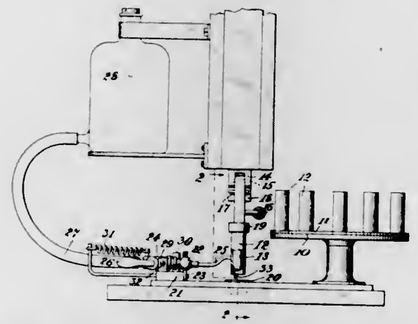
9. Loose leaf binder means comprising a base member having flanges along opposite edges, a pair of wire members one along each flanged edge of the base member, each wire member being formed to provide bearing portions which bear against a flange and with portions which articulate upon similar portions of the other wire member, said base member having openings therein, openable ring members projecting through said openings in the base, said wire members being adapted to rock on their axes to open and close the ring members with the bearing portions thereof bearing against said flanges, each wire member having an offset therein for receiving a ring member, said offset being of a depth such that the part of the ring member received therein lies substantially flush with the said bearing portions, and said ring member being secured in said offset.

1,948,604
PROCESS FOR THE PHOTOCHEMICAL PRODUCTION OF FORMS OR PATTERNS FOR PLANOGRAPHIC PRINTING
Hans Weil, Ludwigshafen-on-the-Rhine, Germany, assignor to firm Dr. Bekk & Kaulen Chemische Fabrik G. m. b. H., Berlin-Lichterfelde, Germany
Application May 27, 1930, Serial No. 456,296, and in Germany May 27, 1929
9 Claims. (Cl. 95—5)



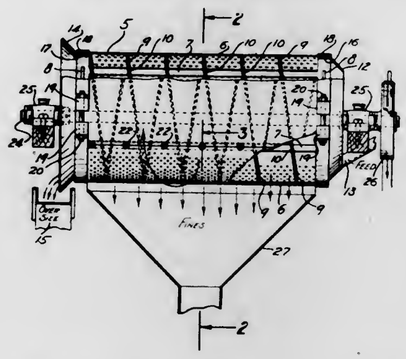
1. A process for the photochemical production on a transparent surface of patterns capable of being copied for planographic printing, consisting in preparing a light sensitive surface layer which by exposure to light will not only be blackened but at the same time also hardened, producing a negative of the original by means of a screen, then transferring this screened negative by way of contact copying on the said surface light sensitive in a double sense, hereafter developing and fixing the blackened metal image and reducing the dots of said metal image in size, if desired, by methods known in themselves for this purpose.

1,948,605
APPARATUS FOR PRODUCING CLOSED ENDED TUBES OF CELLULOID OR THE LIKE
John N. Whitehouse, New York, N. Y.
Application September 3, 1930, Serial No. 479,504
Renewed July 29, 1933
7 Claims. (Cl. 18—3)



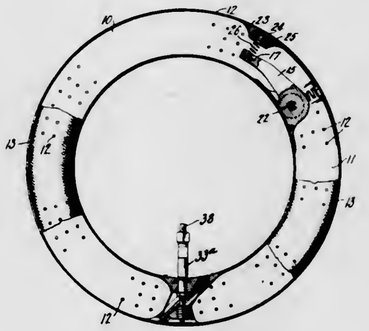
1. Apparatus for forming closed-end tubes which comprises a press having a plunger, a mandrel attached to the plunger, a die formed with a socket and located below the mandrel, and means for supplying solvent to the socket in the die.

1,948,606
SEPARATING APPARATUS
Arthur J. Weinig, Golden, Colo.
Application January 12, 1931. Serial No. 508,088
2 Claims. (Cl. 209—288)



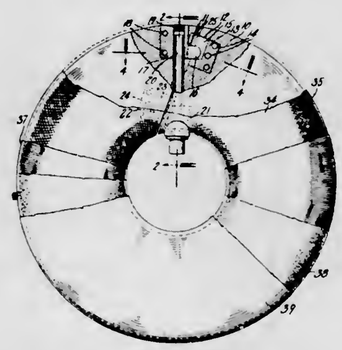
1. The combination with a rotary disintegrating mill having a discharge opening at an end thereof, of an open ended cylindrical screen, means fixing said screen for rotation with the mill, and with one of the ends of the screen in connection with the opening for the reception of material discharging from the mill, said means including an inturned flange at the end of the screen effective to reduce the opening at such end, and a frusto-conical deflecting member connecting said flange and the discharge opening of the mill, said screen having a helical blade disposed therein to form in conjunction with the inner surface thereof, a path for the continuous movement of discharging material away from the mill, and means extending from said inturned flange, forming a self-contained support for said screen.

1,948,607
HINGED MANDREL
Adrian O. Abbott, Jr., Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a corporation of Michigan
Application July 11, 1930, Serial No. 467,251
Renewed November 25, 1933
6 Claims. (Cl. 18—41)



1. An improved mandrel for facilitating the manufacture of endless tubes by deposition from latex comprising, a plurality of arcuate members articularly united and having abutting ends, locking means therefor and means opposing said locking means for yieldingly holding the abutting ends out of engagement with each other.

1,948,608
MANDREL
Adrian O. Abbott, Jr., Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a corporation of Michigan
Application July 11, 1930. Serial No. 467,252
10 Claims. (Cl. 18—41)

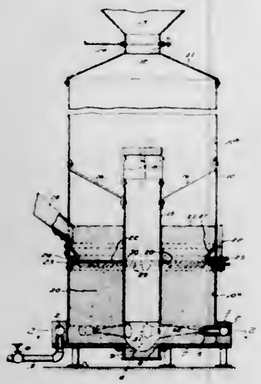


1. An improved mandrel for facilitating the manufacture of endless tubes by deposition from latex, comprising a length of resilient material, having its ends cut on an angle, formed into an annulus and with the cut ends abutting, means for locking the biased ends together to form thereby an endless mandrel, a multiplicity of shallow channels formed on the surface, a filtering medium applied to the surface of the mandrel, and means for applying a differential pressure to the filtering medium.

1,948,609
METHOD OF PULVERIZING MINERALS AND SIMILAR MATERIALS

Norwood H. Andrews, Moorestown, N. J., and Walter J. Willoughby, Philadelphia, Pa., assignors to American Pulverizing Corporation, Camden, N. J., a corporation of New Jersey

Application January 18, 1932. Serial No. 587,268
13 Claims. (Cl. 83—46)



1. The method of pulverizing minerals and the like, which consists in confining the mass of loose mineral matter to be pulverized by enclosing the said mass on the bottom and sides thereof and discharging into the mass a plurality of substantially opposed streams of a gaseous fluid at high velocity, the axes of said streams being located at a substantial distance below the free upper surface of said mass and substantially meeting at a focal point or region within said mass, the pressure and velocity of the said fluid being sufficient to form and maintain within the mass at the said focal region a virtual impact chamber, the side walls and bottom of which are composed of the loose material of the mass and to form and maintain substantially tubular passages through the mass from the point where the said fluid is discharged into the mass to the said impact chamber through which tubular passages some of the loose material of the mass is impelled by said streams of said fluid at high speed into impact in said impact chamber with similar opposed streams.

1,948,610
FOLDABLE BUCKLE

Arthur H. Barrowman, Attleboro, Mass., assignor to Kestenman Bros. Mfg. Co., Providence, R. I., a corporation of Rhode Island

Application March 5, 1932. Serial No. 596,959
10 Claims. (Cl. 24—71)

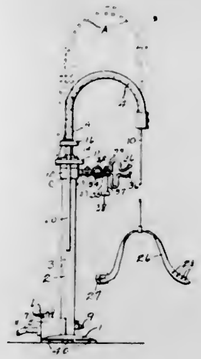


2. In a foldable buckle, a plurality of sections hinged together to fold one over the other, rack teeth provided on one section, a member slidable in another section, a latch on said member comprising a piece of spring stock folded upon itself and means to retain said latch in position to engage said rack teeth.

1,948,611
CORPSE HANDLING DEVICE

Jonas E. Baker, Peabody, Kans.

Application March 28, 1933. Serial No. 663,147
3 Claims. (Cl. 27—28)

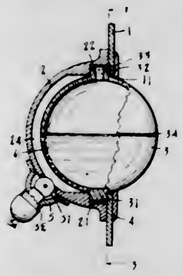


1. In a corpse handling device of the class described comprising a hollow shaft and an arcuate jib with a straight portion to slidably engage in the hollow of the shaft and to turn therein, on a vertical axis, a plurality of cables, means to retain the same on the arcuate portion of the jib, one end of each of the cables being secured to the shaft, the other ends to move in a vertical plane at a ratio of two to one simultaneously with the vertical movement of the jib, means to space apart the last said ends of the cable, means for the attachment of each cable to a corpse, and means to raise, lower and permit turning of the jib.

1,948,612
INCLINOMETER FOR AIRPLANES

Guy C. Bouchard, Kalamazoo, Mich.

Application March 28, 1929. Serial No. 350,661
6 Claims. (Cl. 33—206)



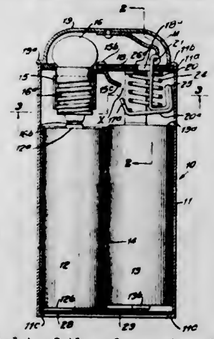
4. The combination with the instrument board of an airplane, of a transparent globe with a definite level line therearound, a supporting hemispherical casing therefor of a diameter to afford an open space around the globe with inwardly projecting attaching lugs and affording unobstructed view of the front of said globe, and a clamp ring with attaching screws for securing the hemispherical casing to the said instrument board.

5. The combination of a transparent globe with level line therearound, means for supporting the same, and a liquid within the same comprising light oil and alcohol, and turpentine, thereby securing prompt action and a clean glass.

1,948,613
FLASH LIGHT

Otto C. Britsch, New York, N. Y., assignor, by mesne assignments, to Bond Electric Corporation, Jersey City, N. J., a corporation of Delaware

Application December 10, 1931
Serial No. 580,030
4 Claims. (Cl. 240—10.67)

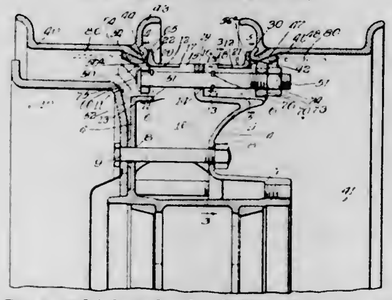


1. A flashlight of the character described comprising a metallic casing, a dry cell battery in the casing having one battery terminal in contact with said casing, and a closure member for one end of the casing having an insulating plate, an electric lamp socket mounted to extend between the plate and the battery and adapted to retain an incandescent bulb in contact with the other battery terminal, a cover for removably enclosing said plate and socket, a lever extended through the plate, said lever having an end on one side of the plate hinged to the cover, a compression spring interposed between the other end of the lever and other side of said plate for resiliently attaching the lever and cover to the plate, and a switch actuated by said lever on movement of said cover.

1,948,614
DUAL WHEEL

Frederick W. Burger, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application May 19, 1930. Serial No. 453,662
21 Claims. (Cl. 301—13)

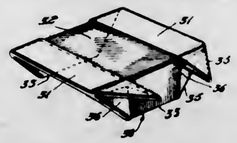


2. In a vehicle wheel of the class described comprising a wheel body carrying relatively fixed abutment means thereon, a clamping lug including a body portion adapted to have a bolt passed therethrough and an angular portion acting to clamp the rim on the wheel when the bolt is tightened, said angular portion adapted to be wedged between the rim and said wheel, and stop means on said angular portion disposed radially inwardly of the rim clamping section thereof and engageable with said rims for governing the initial position thereof, said stop means being engageable with said abutment means for governing the wedging action of the angular member when said bolt is tightened.

1,948,615
PACKAGE OF EXPANSIBLE MATERIAL AND WRAPPER THEREFOR

John W. Clark, New York, N. Y.

Application December 9, 1930. Serial No. 501,065
12 Claims. (Cl. 100—14)

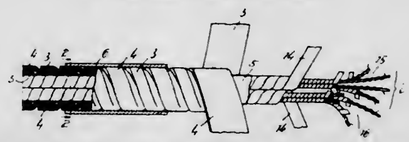


3. A prepared wrapper structure prefolded into a form adapted for application to a rectangular package comprising a sheet of material having the opposite end portions folded over the central portion thereof and the side edges of the sheet thus formed inturned over the central portion, and angular folds formed in common with the folded over side and end portions and located adjacent to the junction of said central portion and side edges.

1,948,616
CABLE FOR COMMUNICATION CIRCUITS

Ernst Fischer, Berlin-Lichterfelde-West, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany

Application July 21, 1930, Serial No. 469,418, and in Germany July 27, 1929
3 Claims. (Cl. 173—81)



1. In a cable of the character described, in combination with a core containing a plurality of groups of insulated conductors, a metallic shielding for said groups and a common outer metallic cable sheathing for said groups, of an overlapping insulating tape winding arranged in superposed layers and enveloping said shielded groups, the tape, of which said winding is composed, being metallized on one face only, the metallized face of the innermost layer being in electrical contact with the metallic shielding of said individual conductor groups, the metallized face of the outermost layer contacting with said outer metallic cable sheathing, and the metallized face of each layer contacting with the metallized face of its adjacent layer, to electrically connect the group shielding with said outer cable sheathing.

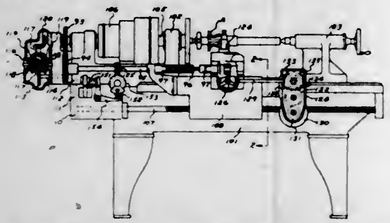
1,948,617
TRACER CONTROLLED LATHE

Frank O. Hoagland, West Hartford, Conn., assignor to Pratt & Whitney Company, Hartford, Conn., a corporation of New Jersey

Application August 12, 1932. Serial No. 628,574
8 Claims. (Cl. 82—14)

1. A machine tool comprising in combination, a continuously rotating work spindle, a tool mounted for longitudinal and transverse movements relative to said spindle, a template follow-

ing tracer adjacent said spindle for controlling the movements of said tool during rotation of said spindle, and means rendering said tracer inoperative to control movements of said tool during portions of the rotation of said spindle.



8. A machine tool comprising in combination, a base, a rotatably mounted work spindle, a carriage mounted for longitudinal movement on said base, a slide on said carriage mounted for transverse movements relative to said spindle, a tool mounted on said slide, a tracer mounted on said slide contacting with a template fixed to said base, said tracer and template controlling movements of said carriage and slide during continuous rotation of said spindle, a member rotating in timed relation with said spindle, and means thereon rendering said tracer inoperative to control movements of said carriage and slide during portions of the rotation of said spindle.

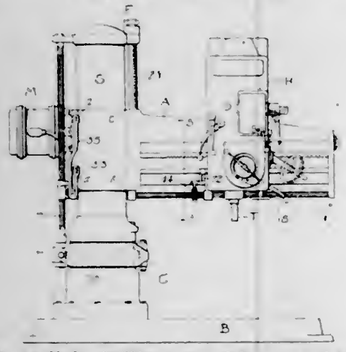
1,948,618

INTERLOCKED ARM CLAMP AND ELEVATING CONTROL

David C. Klausmeyer, deceased, late of Cincinnati, Ohio, by H. Henry Sundermann, executor, and Augustus M. Sosa, Cincinnati, Ohio, assignors to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a corporation of Ohio

Application April 4, 1930. Serial No. 441,490

9 Claims. (Cl. 77—28)



3. A radial drilling machine combining a column; an arm translatably mounted thereon; means to clamp said arm to said column; a drill-head translatably mounted on said arm; a power driven shaft journaled lengthwise of said arm; a tool spindle rotatably journaled in said head and driven from said shaft; a prime mover; a power transmission including a clutch, having operative and neutral positions, connecting said prime mover with said shaft; a second shaft journaled lengthwise of said arm and adapted to actuate said clutch; a power control lever mounted on said drill-head for actuating said second shaft; a third shaft journaled lengthwise of said arm and connected to actuate said arm clamp; a second lever mounted on said drill-head for actuating said third shaft; and an interlock mechanism between the clamp-actuating means and the clutch-actuating means to prevent release of the clamp until the clutch has been actuated to discontinue the drive to said first shaft.

1,948,619

MEANS FOR INCREASING THE RIGIDITY OF CORRUGATED SHEET MATERIAL

Knut Knutson, Brooklyn, N. Y.; Trine Selmer Knutson administratrix of said Knut Knutson, deceased

Application September 22, 1932

Serial No. 634,293

5 Claims. (Cl. 189—85)



1. A corrugated sheet for spanning spaced supports and having a multiplicity of corrugations, said sheet including a plurality of tie straps extending at the unsupported sheet portions substantially in the neutral axis of the corrugations between, and being secured to the ends of at least some of the corrugation halves of only that group of halves subject to buckling stresses, to tie said ends in fixed relation to one another, to increase the resistance against spreading of the corrugations in the direction of the neutral sheet axis due to an applied load.

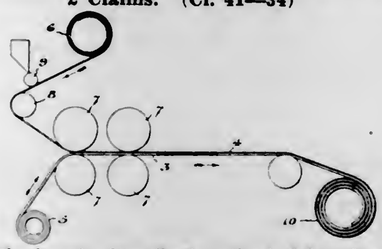
1,948,620

APPLIQUE PROCESS

Lynde De Forest Hokerk, Utica, N. Y.

Application February 28, 1931. Serial No. 519,100

2 Claims. (Cl. 41—34)



1. The herein described method of forming appliques which consists in applying a volatile solvent to one face of a sheet of vulcanizable material to make said face tacky, affixing said sheet to a sheet of applique material by pressing the tacky face thereof against the applique material to cause the sheet of vulcanizable material to adhere to the applique material and form a backing therefor, winding said applique material into a roll with the vulcanizable backing on the outside so that the vulcanizable backing sheet is held under tension while drying, and cutting appliques from said applique material.

1,948,621

SHOE FORM

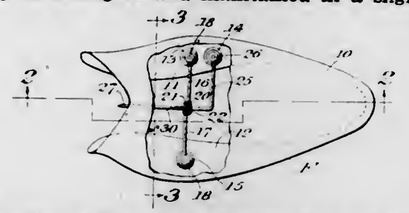
Alfred G. Legge, Brockton, Mass.

Application March 14, 1933. Serial No. 660,653

2 Claims. (Cl. 12—128.4)

1. A shoe form comprising a hollow flexible toe part having its opposite side walls provided with bottom inturned flanges, and an arm secured to each of said flanges above the general plane thereof, said arms being pivotally connected to swing in a plane intersecting the plane of said

flanges to move said side walls relatively to expand and collapse said form whereby said arms may be swung to and maintained in a slightly



off center position in engagement with the insole of a shoe to maintain said form expanded in said shoe.

1,948,622

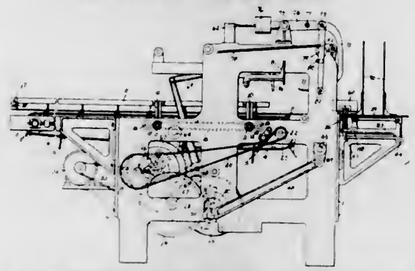
SLICING MACHINE

Carl Littlefield, Battle Creek, Mich., assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich.

Application September 18, 1929

Serial No. 393,339

41 Claims. (Cl. 146—153)



1. In a slicing machine, the combination of a slotted slicing table, a delivery table at the rear of said slicing table, coacting pairs of crossheads rigidly connected by end members disposed in crossed relation, rockshafts provided with arms on which said crossheads are pivotally mounted in counterbalancing relation, blades mounted on said crossheads in crossed sets and disposed through said slots in said slicing table, a feed plunger provided with fingers spaced to pass between the blades and having vertical loaf engaging tips, a top holder slotted to receive said blades and pivotally mounted to swing rearwardly, a tappet on said plunger adapted to engage said top holder toward the rear end of the plunger stroke, and spaced supports on said delivery table to which the loaf is delivered by said plunger.

1,948,623

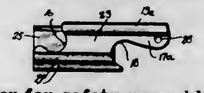
HOLDER FOR SAFETY RAZOR BLADES

Harry A. Louderback, Columbus, Ohio, assignor of one-half to William A. Gearing, Columbus, Ohio

Application December 16, 1932

Serial No. 647,669

4 Claims. (Cl. 30—25)



1. In a holder for safety razor blades, a holder having side walls, a rolled edge at each side of the holder with the cutting edge of a razor blade extending into one rolled edge, the rolled edges being extended at diagonally opposite ends to form a handle at one end and defining a finger depression at each end of the holder to facilitate finger engagement with opposite ends of the blade to slide the same into service and inoperative positions.

1,948,624

DECOY

Frank Lyons and William H. Lyons, Jr., Lodi, Calif.

Application February 1, 1932. Serial No. 590,019

1 Claim. (Cl. 43—3)



A decoy comprising a body, a head separate therefrom, a pivot between the body and head toward the rear end of the latter; the top surface of the body having a recess into which the base of the head in front of the pivot depends, the side edges of the recess being disposed to limit the turning of the head to an arc of predetermined degree.

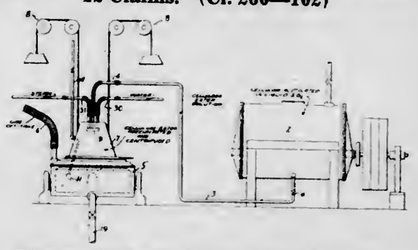
1,948,625

PRECIPITATION AND TREATMENT OF CELLULOSE DERIVATIVES

Donald B. Mason, Catonsville, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia

Application October 4, 1929. Serial No. 397,211

12 Claims. (Cl. 260—102)



1. The method which comprises forcibly commingling streams of a colloidal solution of a cellulose derivative and of a precipitant collecting the precipitated cellulose, and dehydrating the precipitated material by centrifugal action where it is collected.

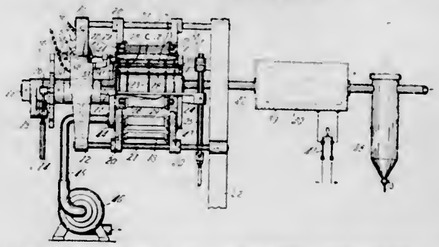
1,948,626

TREATING CIGAR BUNCHES

Morehead Patterson, New York, and Rupert E. Rundell, Rockville Center, N. Y., assignors to International Cigar Machinery Company, a corporation of New Jersey

Application April 27, 1932. Serial No. 607,868

48 Claims. (Cl. 131—9)

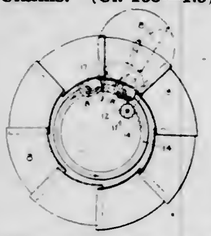


1. The process of treating cigar bunches which consists in enclosing the bunch in a mold to

shape the same and flowing a bunch stiffening gaseous medium through the mold.

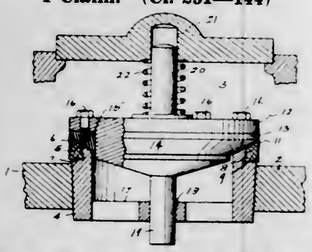
42. The combination with a travelling series series of molds, each mold of which is split longitudinally into separate mold sections at least one of said mold sections having openings therethrough, of means operating said mold sections to shape a cigar bunch within the same, and devices for forcing air sidewise through the mold section having the openings when the same is acting on a bunch.

1,948,627
AIR REGISTER FOR FUEL BURNERS
Ernest H. Peabody, New York, N. Y., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York
Application April 20, 1931. Serial No. 531,530
7 Claims. (Cl. 158—1.5)



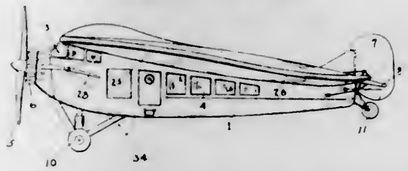
1. In combination with a furnace, a plurality of fluent fuel burners, an air register for each burner, each register having adjustable doors for controlling the volume and the direction of rotation of air currents fed to its burner, the doors of some of the registers being arranged to rotate the air currents in one direction and the doors of the rest of the registers being arranged to rotate the air currents in the opposite direction, operating means at each register to move the doors of such register, all of said operating means being movable in the same pre-determined direction to open and in the opposite direction to close the doors of all registers.

1,948,628
VALVE MECHANISM
Arthur J. Penick and Kirby T. Penick, Houston, Tex.
Application November 25, 1929
Serial No. 409,541
1 Claim. (Cl. 251—144)



A valve mechanism comprising a reciprocable valve having an annular beveled face, an annular valve seat having an outwardly flared annular face opposite, and adapted to cooperate with, said valve face, a ring of resilient material around and counter sunk into the valve seat and having an outwardly flared face which terminates in an annular lip which lies in a plane which is elevated beyond the plane of the seat face whereby, upon closing movement of the valve, the valve face will contact with said lip in advance of the complete seating of the valve on said seat, said seat having an external annular groove and said resilient ring having an internal annular rib which seats in said groove and also having an external annular groove and a band around, and counter sunk into, the base portion of said ring which secures the ring in place but permits the expansion of the lip portion of the ring, said band having an inside annular rib which seats in the groove of said ring.

1,948,629
AIRPLANE
Harold Pitts, Spokane, Wash.
Application May 23, 1931, Serial No. 539,447
Renewed July 28, 1933
2 Claims. (Cl. 244—29)



1. The combination in an airship having a rounded nose, of a pair of wings forming an equilateral triangle including the nose, said wings having a longitudinal cambre and reversely-curved leading edges diverging rearwardly from the nose, and transversely arranged outwardly curved trailing edges for the wings.

1,948,630
PACKING
Jules Restein, Philadelphia, Pa., assignor, by mesne assignments, to The Belmont Packing & Rubber Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 22, 1930. Serial No. 438,058
2 Claims. (Cl. 154—45.5)

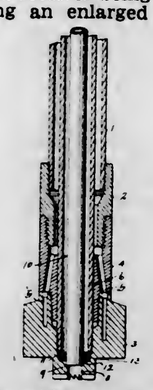


1. A packing comprising an uncoiled metal core of generally circular cross-section having thereon and in metal to metal abutting contact therewith a single layer of turns of metal of generally circular cross section internally circular and externally presenting at least one flat face, a strip of fibrous material having an open channel in which the metal structure is arranged, and a line of stitches penetrating the walls of the fibrou strip and the metallic structure.

1,948,631
SAMPLE TAKING APPARATUS
Sosthene Robichaux, Saratoga, and George J. Barrett, Houston, Tex.
Application April 15, 1932. Serial No. 605,464
7 Claims. (Cl. 255—72)

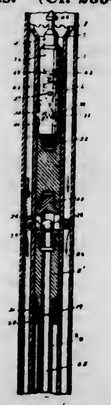
1. In a sample taking device a drill having an inlet for a core, a tube associated with the drill, a core receiver in said tube having a core receiving chamber in communication with said inlet, anti-friction means for mounting said receiver whereby the tube may rotate independently of

the receiver, said receiver being spaced from the tube and having an enlarged tubular portion



which fits closely within, and may rotate with, said tube.

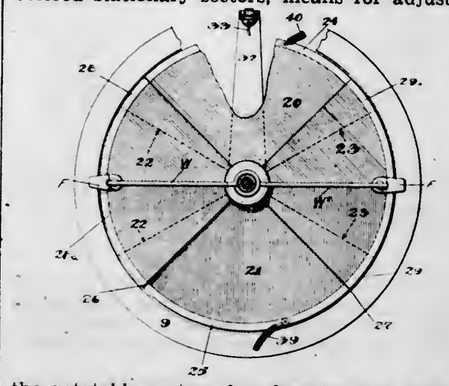
1,948,632
SAMPLE TAKING APPARATUS
George J. Barrett, Houston, and Sosthene Robichaux, Saratoga, Tex.
Application July 26, 1932. Serial No. 624,720
7 Claims. (Cl. 255—72)



1. Sample taking apparatus comprising a tubular stem, a drill at the lower end of the stem having an inlet for a sample, a tubular housing fixed in the stem a barrel in the housing having an outlet and arranged to receive a sample entering through said inlet, said apparatus having a channel for drilling fluid between said stem, and housing, said core barrel having a valve chamber and a valve in the chamber for controlling said outlet, a suction nozzle connected into said chamber outside of the valve and whose outer end terminates in said channel whereby the fluid flowing downwardly through the channel is effective to create a suction through said nozzle to effect the creation of a partial vacuum in said valve chamber about the outside of the valve.

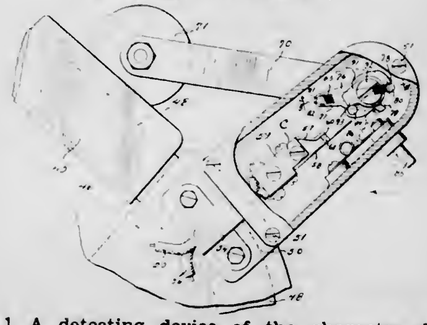
1,948,633
TRAFFIC SIGNAL
James Newton Rogers, Spokane, Wash.
Application October 26, 1932. Serial No. 639,596
5 Claims. (Cl. 177—337)

1. In a signal device, the combination with a disk having separated vari-colored stationary sectors, of a pair of rotatable, adjustable, sectors each having portions colored the same as and with their colors adjacent like colors of the vari-colored stationary sectors, means for adjusting



the rotatable sectors for changing the proportions of the varied colors of the signal, a rotary time-lapse indicator adapted to travel around the disk, and operating means for said indicator.

1,948,634
BROKEN COTTON BAT DETECTOR
Frederick N. Ross and Horace L. Johnson, Detroit, Mich., assignors to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application November 20, 1931
Serial No. 576,374
9 Claims. (Cl. 192—127)

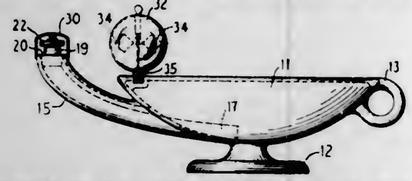


1. A detecting device of the character described including in combination a rotatably mounted plate, means including a spring connected to said plate for moving the same in either direction about its axis of rotation, and means responsive to a breaking of a strip of cotton bat fed to a sewing machine for imparting sufficient movement to said plate to cause the same to be actuated by said spring.

1,948,635
VAPOR DISPENSING APPARATUS
George Sykes, Ossining, N. Y.
Application July 22, 1932. Serial No. 623,976
2 Claims. (Cl. 167—3)

1. A vapor dispenser of the type having a reservoir to hold a volatile, combustible liquid, a wick, and a catalytic element above the wick capable of maintaining flameless combustion of the vapor rising in contact with the element, said dispenser also having an indicator sensitive to heat radiated from the region of the catalytic element, said

indicator consisting of a radiometer disposed in such relation to the catalytic element as to be



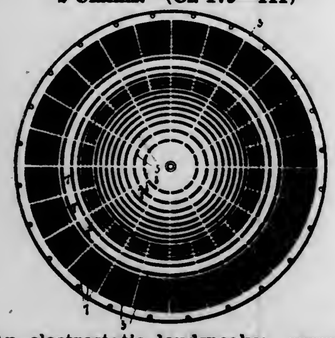
actuated by the radiant energy of the reaction only when the dispenser is operating to evaporate the liquid.

1,948,636
LENS
Edgar D. Tillyer, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 30, 1932. Serial No. 626,557
4 Claims. (Cl. 88—54)



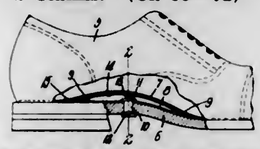
1. The process of forming a bitoric lens comprising forming one of the toric surfaces desired on one lens blank and forming a spherical surface on the opposite side of said blank, forming the other toric surface desired on another lens blank and forming on the opposite side of said second mentioned blank a spherical surface complementary to the spherical surface on the first lens blank so that the spherical surfaces will fit together, locating the axes of the respective toric surfaces, placing the blanks against each other with their spherical surfaces together, rotating the blanks with respect to each other until the axes are properly positioned with respect to each other, and securing the blanks together in this position to form a unitary bitoric lens.

1,948,637
ELECTROSTATIC LOUD SPEAKER
Hans Vogt, Berlin, Germany
Application October 7, 1930, Serial No. 487,036
In Germany June 26, 1930
2 Claims. (Cl. 179—111)



1. An electrostatic loudspeaker, comprising a diaphragm mounted to permit vibration thereof, a plate arranged on either side of said diaphragm, and segmentally shaped perforations provided in said plates, the segmental perforations at the middle part and at a zone which is at a distance of about two thirds of the radius from the center of said plates being arranged at a greater distance from each other than within the remaining zones of said plates.

1,948,638
ARCH SUPPORTING SHOE
Alfred Young, Webster, Mass.
Application November 2, 1932. Serial No. 640,790
2 Claims. (Cl. 36—71)



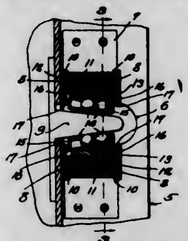
1. An arch supporting shoe comprising, in combination, an outer sole, a shank plate fast at its opposite ends to the upper surface of said sole, a sleeve mounted upon said plate and projecting through said sole, a nut engaging said sleeve and clamping the plate to the sole, an inner sole, an arch supporting plate fast to the under side of said inner sole, and a screw adjustable in said sleeve and contacting at its upper extremity with the under surface of said arch supporting plate.

1,948,639
ADJUSTABLY PERMEABLE AND EXTENSIBLE GROIN
Gilbert A. Youngberg, Jacksonville, Fla.
Application July 11, 1931, Serial No. 550,216
8 Claims. (Cl. 61—4)



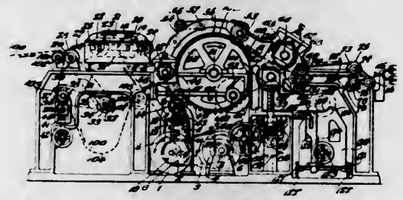
1. A beach building and maintaining structure adapted to be positioned at substantially right angles to a current flowing along a beach comprising a series of panels formed of spaced aligned H or I shaped uprights, and cross pieces having the ends removably fastened in the channels provided in the sides of the adjacent uprights, certain of the cross-pieces and certain of the panels having short blocks removably secured therebetween and spaced apart longitudinally to provide a plurality of apertures between certain of the cross pieces and in certain of the panels.

1,948,640
ANTIRATTLE DEVICE
Isaac Andrews, Spartanburg, S. C.
Application June 2, 1932. Serial No. 615,008
6 Claims. (Cl. 16—86)



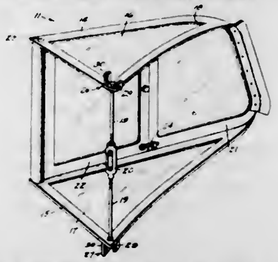
1. An anti-rattling device for doors, comprising a keeper section secured to the door jamb, upper and lower ball races mounted within the keeper section, and having inclined surfaces, balls operating over the inclined surfaces, a wedge-shaped tongue carried by the door and adapted to move between the ball races, exerting pressure on the balls and ball races, and yieldable means within the keeper section for normally urging the balls outwardly.

1,948,641
AUTOMATIC MACHINE FOR FEEDING AND CUTTING SHEET MATERIAL
Robert W. Barker, Philadelphia, Pa.
Application June 7, 1932. Serial No. 615,789
9 Claims. (Cl. 164—68)



8. The combination with a feeding and cutting machine of the character stated, including a cutter roll, of means for installing and withdrawing said roll, comprising a carriage adapted to travel into and out of position with respect to said machine and to carry said roll, a fixed jaw on the top of said carriage, a vertically movable jaw adapted to coact with said fixed jaw to hold said roll, and an arm pivoted to said carriage and adapted to form a track to permit said cutter roll to roll off said carriage.

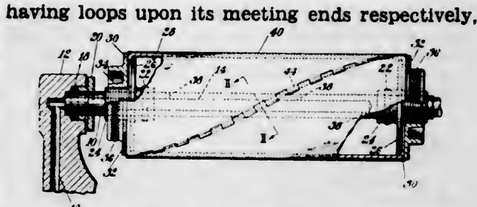
1,948,642
WIND DEFLECTOR
Emil J. Beisel, Port Chester, N. Y.
Application May 2, 1933. Serial No. 669,034
8 Claims. (Cl. 296—84)



5. A wind deflector for automobiles comprising a pair of upper and lower triangular frame members and a vertical deflector window member connecting one side of the upper frame member to a corresponding side of the lower frame member, said vertical deflector window member comprising a fixed window section, a vertical pivot connecting said upper and lower frame members and a movable window section hinged to said vertical pivot.

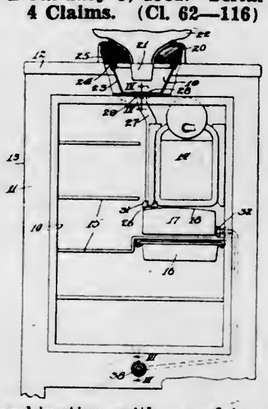
1,948,643
ABRASIVE TOOL
Frederic E. Bertrand, East Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 23, 1933. Serial No. 672,460
9 Claims. (Cl. 51—194)

1. A finishing roll comprising a roll body, a finishing cover surrounding said roll body and having loops upon its meeting ends respectively,



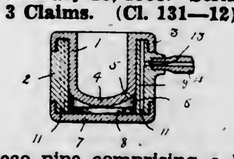
and a rod extending through said loops to retain the finishing cover upon the roll body.

1,948,644
WATER COOLER
Howard E. Blood and Orrin A. Brandel, Detroit, Mich., assignors to Norge Corporation, Detroit, Mich., a corporation of Michigan
Application January 9, 1931. Serial No. 507,564
4 Claims. (Cl. 62—116)



1. In combination with a refrigerator and a freezer unit mounted in the refrigerated compartment thereof, a water cooling reservoir in said compartment positioned beneath said freezer unit, a water bottle fount positioned outside the refrigerator for feeding water to said cooling reservoir, conduit means connecting said fount and said reservoir, said means including readily detachable connections for facilitating the removal and cleaning of said reservoir, a draw-off connection from said reservoir, and a faucet connected thereto and mounted on the outside of said refrigerator.

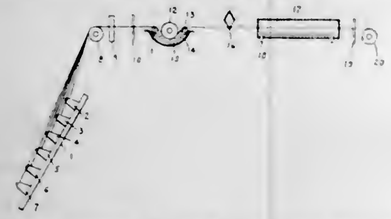
1,948,645
SMOKING PIPE
Clifford K. Brown, Duluth, Minn.
Application January 16, 1933. Serial No. 652,016
3 Claims. (Cl. 131—12)



1. A tobacco pipe comprising a body portion having a plurality of vertical, spaced passageways therethrough forming a tortuous course for the smoke, a stem communicating with the upper end of one of said passageways, an inner bowl unitable with the body portion and having a flange overlapping the upper end thereof and closing communication between the upper ends of said passageways excepting each with a next

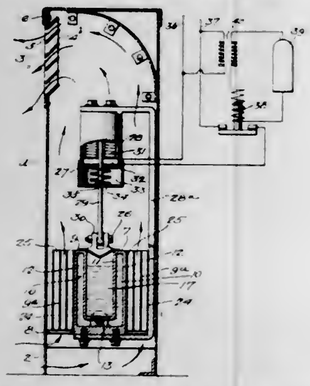
adjacent one, and a bottom for said body portion removably attached to the lower end thereof and closing communication between the lower ends of said passageways excepting each with a next adjacent one.

1,948,646
PROCESS OF PREPARING WARP
Alexander Bruenn, New York, N. Y.
Application May 16, 1932, Serial No. 611,723
2 Claims. (Cl. 28—22)



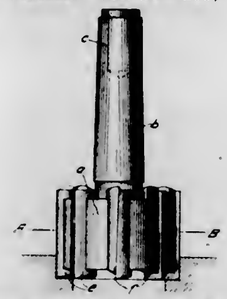
1. The process of preparing warp threads by treating the threads making up the warp that are wound on spools with a preparatory softening solution, placing the spools on banks, passing the threads thus treated through a stop motion, then through a reed, passing the threads under a roller, through a colloidal solution, gathering the threads in a gatherer in groups to unite them into individual threads, drying the threads, passing the threads through a lease reed, and then winding the threads upon a section beam.

1,948,647
AIR CONDITIONING APPARATUS
Thomas Bayard Brunt, Philadelphia, Pa.
Application April 27, 1932, Serial No. 607,864
10 Claims. (Cl. 257—138)



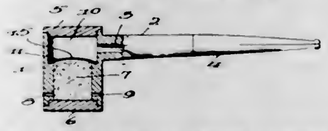
5. Air-conditioning apparatus, comprising an air-conditioning device having a conditioning medium conduit with a continuous long, wide, and shallow portion, said portion having its width disposed substantially vertically, one side of said portion forming a wall for a humidifying fluid reservoir, radiating fins extending from the other side of said portion, means for directing a stream of air upward through said fins, a damper for opening and closing said reservoir to the atmosphere, said damper having a deflecting surface for directing humidifying vapor into the path of said stream of air and means for controlling said damper in accordance with the humidity of the atmosphere about said device.

1,948,648
MILLING CUTTER
Alfred Buchmüller, Conz, near Trier, Germany, assignor of forty percent to Peter Zettelmeyer, Conz, twenty percent to Mrs. M. Weber, twenty percent to Mrs. Dr. E. Bichler, both of Trier, and twenty percent to Mrs. Dr. H. Corsten, Berlin-Lichterfeld, Germany
Application August 8, 1929, Serial No. 384,302
In Germany August 18, 1928
8 Claims. (Cl. 29—105)



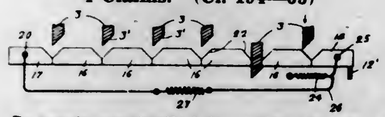
1. A milling cutter comprising a body having circular longitudinal grooves opening to the external surface of the body, said grooves being positioned in said body member within the outer periphery thereof, semi-circular cutters to partially fit the grooves and to project beyond the body, and semi-circular friction members driven in the direction of the longitudinal axes of the grooves to engage the cutters and frictionally hold the latter in any rotatably or longitudinally adjusted position.

1,948,649
PIPE
Samuel B. Dabney, Houston, Tex.
Application February 28, 1933. Serial No. 658,973
2 Claims. (Cl. 131—12)



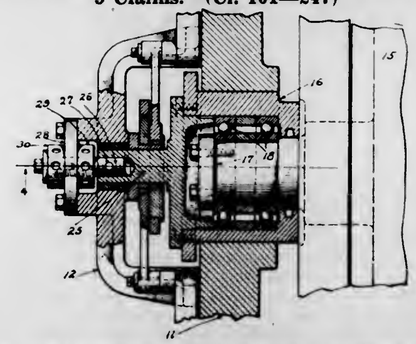
1. In a pipe having an upper air chamber, and a stem leading thereto, a lower smoking material chamber in open communication with the upper air chamber, a perforated partition arranged therebetween, an igniting opening leading into the lower chamber, and a hollow shaped element extending through the igniting opening and into the central portion of the smoking material chamber.

1,948,650
COIN CONTROLLED DISPENSING MACHINE
Francis C. Du Grenier, Haverhill, Mass., assignor of one-half to Blanche E. Bouchard, Haverhill, Mass.
Application November 25, 1932
Serial No. 644,233
4 Claims. (Cl. 194—63)



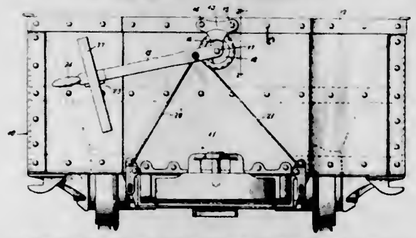
1. In a coin-controlled dispensing machine having a plurality of axially aligned operating levers, a corresponding plurality of locking members arranged in abutment successively and slidable in a line parallel to the axis of the levers, said levers and members having co-acting faces whereby operative movement of any one of said levers will move all of the members at one side the lever in one direction to permit operative movement of the lever, an abutment normally located in an operative position to prevent such movement of the members and movable to an inoperative position to permit such movement, means normally operative to return the displaced members to operative position when the lever is returned to normal position, and auxiliary means for moving the members to an operative position when said normally operative means fails to return them to normal position.

1,948,651
PRINTING MACHINE
William K. Eckhard, Dunellen, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York; Irving Trust Company, receivers
Application April 20, 1931. Serial No. 531,427
5 Claims. (Cl. 101—247)



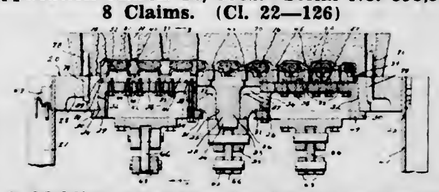
1. In a printing machine, the following elements in combination: a supporting frame, an eccentric bushing rotatably mounted therein, anti-friction bearings in said eccentric bushing, a printing cylinder journaled in said anti-friction bearings, and means adapted to move said eccentric bushing and said printing cylinder axially.

1,948,652
BRAKE OPERATING MECHANISM
Glenn E. Edmunds, Columbus, Ohio, assignor to The Bonney-Floyd Company, Columbus, Ohio, a corporation of Ohio
Application March 14, 1932. Serial No. 598,810
4 Claims. (Cl. 74—112)



1. Mechanism of the class described comprising a rotatable drum provided with peripheral teeth, the adjacent edges of adjacent teeth being substantially parallel to a radial line bisecting the intervening space, a block having a recess in which said teeth are selectively engageable, the shape of the recess conforming to that of the teeth so as to lock with the latter, a lever, and means for securing said block to said lever to connect the latter with the drum.

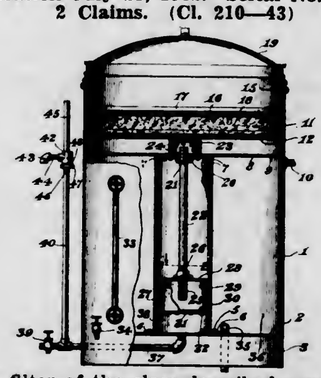
1,948,653
SEMIPERMANENT MOLDING APPARATUS
Howard Emery, Andrew Irvine, and Arthur T. Bateman, Detroit, Mich., assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application March 14, 1932. Serial No. 598,812
8 Claims. (Cl. 22—126)



1. Molding apparatus for forming an engine cylinder head having a plurality of combustion chambers therein, comprising a permanent mold section having a member provided with an upper surface corresponding to a portion of the lower plane surface of the head and formed with a recess therein, a plurality of chills having portions located within the recess flush with the upper surface aforesaid of the member and having other portions extending above the latter surface corresponding to the combustion chambers in said head.

6. Molding apparatus for forming an engine cylinder head having a plurality of combustion chambers in one face thereof, comprising a metallic drag member, a metallic member mounted for reciprocation relative to said drag member and having a plane surface extending transverse to the direction of reciprocation, a plurality of independently removable chills having portions forming the combustion chambers in the face aforesaid of the head, means independently securing said chills to the plane surface of said reciprocable member and means for reciprocating said latter member.

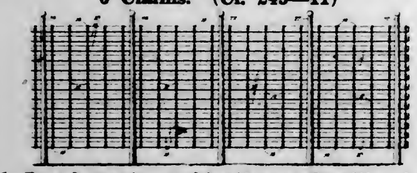
1,948,654
OIL FILTER
Francis F. Emory, Leominster, Mass.
Application July 25, 1932. Serial No. 624,556
2 Claims. (Cl. 210—43)



1. A filter of the class described comprising a body, filtering means carried thereby, a supporting pan associated with said filtering means, a perforated cap carried by said supporting pan between its bottom and said filtering means, a

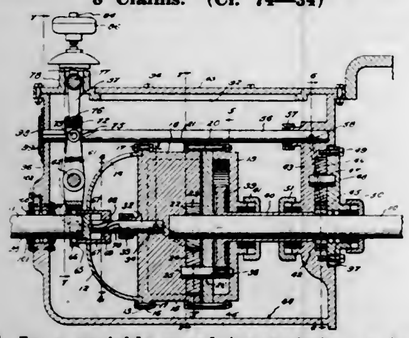
casing, a depending drain pipe extending downwardly from said pan with its upper end extending through the bottom of said pan and guarded by said cap, adjustably supported upon the lower end of said drain pipe and having a perforated upper end to facilitate the separation of water and oil passing into said casing, a cylinder surrounding said casing for dividing said body into inner and outer compartments, means for draining water from the inner compartment, said cylinder provided with means for permitting the passing of oil from the inner to the outer compartment, and means for drawing off oil from said outer compartment.

1,948,655
METAL SNOW FENCE
Erik Joseph Eriksson, Duluth, Minn.
Application August 14, 1931. Serial No. 557,154
6 Claims. (Cl. 245—11)



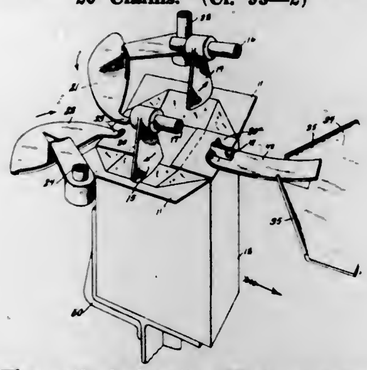
1. In a fence, in combination, a plurality of corrugated metal strips, the ribs of the corrugations extending vertically, a plurality of spaced wire stays extending transversely of said strips and being bent at their ends over the outer edges of the end strips, and wire strands connecting with the stay wires to maintain the metal strips in spaced relation, said wire stays also having their ends bent over the outer edges of the end strips.

1,948,656
VARIABLE SPEED TRANSMISSION
Frank R. Ewer, Modesto, Calif.
Application September 3, 1932. Serial No. 631,690
8 Claims. (Cl. 74—34)



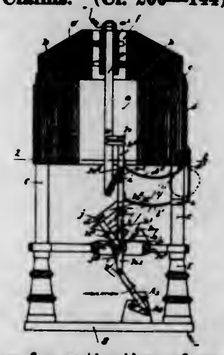
1. In a variable speed transmission, a housing, a drive shaft, a driven shaft, a rotary casing in the housing fixed to the driven shaft and receiving the end of the drive shaft, reservoirs in the casing and in the housing, a rotary gear pump in the casing driven by the drive shaft, a rotary gear pump in the housing, said pumps circulating fluid through their respective reservoirs, valves in the casing and housing for controlling the fluid flow to restrict the pump gears, a gear loose on the drive shaft for driving the housing pump, and an arbor carried by the casing and driven by the casing pump, said arbor having gear teeth meshing with said loose gear and connecting the drive shaft, the casing, and the driven shaft for rotation in the same direction when the casing pump is restricted, said arbor moving as a planetary gear upon said loose gear when the housing rotary pump is restricted and reversing the direction of rotation of the casing and the driven shaft with respect to the drive shaft.

1,948,657
LINER FOLDING DEVICE
John Lee Ferguson, Joliet, Ill., assignor to J. L. Ferguson Company, Joliet, Ill., a corporation of Illinois
Application July 23, 1930. Serial No. 470,091
20 Claims. (Cl. 93—2)



1. The method of sealing filled containers having unattached liners therein, comprising simultaneously folding the side flaps and adjacent unattached portions of the lining outwardly, and the end flaps and adjacent unattached portions of the lining inwardly, then applying adhesive to the exposed portions of the side flaps and overhanging portions of the lining, then folding the side flaps inwardly to cause the lining to be sealed therebetween.

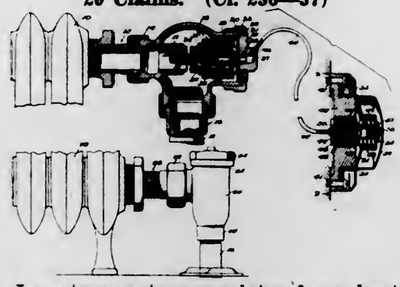
1,948 658
DEVICE FOR EXTINCTION OF ELECTRIC ARCS
Gaston Gerin, Paul Joseph Branchu, and Stanislas Tessner, Grenoble, France
Application July 7, 1930, Serial No. 466,322
In France July 9, 1929
4 Claims. (Cl. 200—144)



1. In a device for extinction of an electric arc, a chamber for the rupture of the arc having a conducting wall forming a first electrode, a second electrode in said chamber to produce an arc between same and the wall of the chamber, a blowout coil on said first electrode producing an

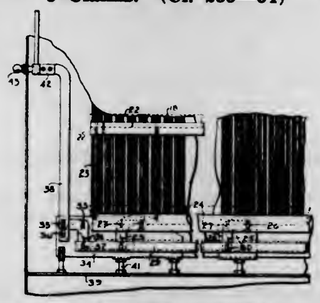
axial field in the space between the said two electrodes, one electrode enveloping the other and the length of the arc path for one revolution of the arc being greater on one electrode than the other, so that the path traversed by the arc at one turn under the effect of the blowout field is greater on the enveloping electrode than on the enveloped electrode, and is spiral.

1,948,659
THERMOSTATIC RADIATOR VALVE
Jean V. Giesler, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a corporation of Delaware
Application December 28, 1931
Serial No. 583,559
20 Claims. (Cl. 236—37)



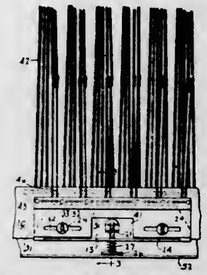
2. In a temperature regulator for a heat exchanger, in combination with a valve for varying the flow of an influencing medium through said exchanger, an expansible and collapsible motor vessel operatively connected to said valve and subjected to a source of heat, and a system in communication with said motor vessel for predeterminately injecting quantities of a vaporizable liquid into said vessel whereby said liquid is vaporized by the heat applied thereto and said motor vessel actuated, said system including a plurality of containers for said vaporizable liquid in communication with said motor vessel and adapted respectively to inject quantities of said vaporizable liquid into said motor vessel in conformity with variations of temperature at the respective containers.

1,948,660
VOTING MACHINE
Alvin N. Gustavson, Jamestown, N. Y., assignor to Automatic Voting Machine Corporation, a corporation of Delaware
Application April 23, 1931. Serial No. 532,153
3 Claims. (Cl. 235—54)



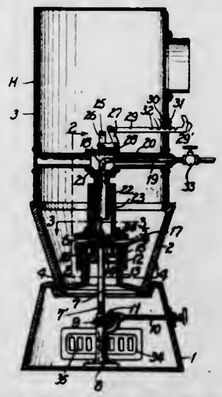
1. In a voting machine arranged for straight party voting wherein interlocking straps are moved from non-voting to voting position to register a vote, a mechanism for returning certain interlocking straps to non-registering position, comprising a clip mounted on and engaging any group or groups of said interlocking straps, lugs on said straps engageable with said clip, a lever operable from the exterior of said machine, and means connecting said lever with said clip whereby movement of said lever reciprocates said clip to engage the lugs of and return said interlocking straps to non-registering position.

1,948,661
VOTING MACHINE
Alvin N. Gustavson, Jamestown, N. Y., assignor to Automatic Voting Machine Corporation, a corporation of Delaware
Application April 25, 1932. Serial No. 607,283
5 Claims. (Cl. 235—54)



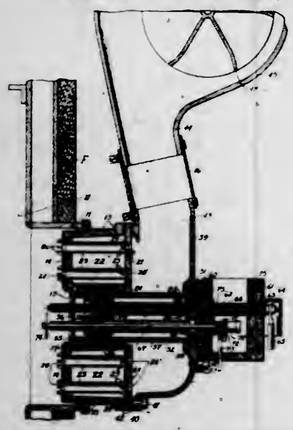
1. In a voting machine having candidate interlocking straps which are displaced laterally when moved into and out of voting position, endorsement interlocking straps suspended from certain of said candidate straps, an endorsement interlock comprising a stationary plate and a movable plate, said endorsement straps being adapted to transmit lateral motion from said candidate straps to said movable plate whereby to prevent binding of said endorsement straps in said endorsement interlock.

1,948,662
OIL BURNING HEATER
Elmo G. Holthaus, St. Louis, Mo.
Application March 11, 1932. Serial No. 598,219
2 Claims. (Cl. 158—53)



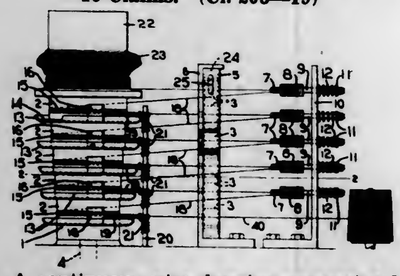
1. A heater having a combustion chamber provided with an air inlet, a burner disposed adjacent to said air inlet, said burner comprising an element having a marginal flange around the air inlet, a rotatory air and fuel distributing head in close proximity to said flange, said head having propelling vanes projecting downwardly inside said flange, air shielding means immediately above the distributing head, and means for feeding fuel to the distributing head.

1,948,663
GAS BURNER STRUCTURE
George H. Irwin, Chicago, Ill.
Application January 23, 1930. Serial No. 422,745
3 Claims. (Cl. 158—108)



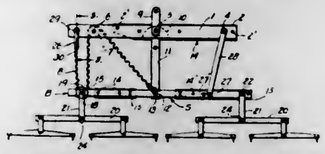
1. In a gas burner, the combination of an annular frame forming a central passage and a surrounding gas chamber, means for feeding gas into said chamber, concentric circular rows of tubes extending through said frame and chamber parallel with the axis thereof, said tubes adjacent their entrance ends having restricted gas inlets communicating with said chamber, means forming an air chamber surrounding the entrance ends of said tubes, means for forcing air under pressure into said air chamber to flow through said tubes, the air flow past said inlets entraining gas therethrough into the tubes to mix with the air to produce combustion mixture, an ignition device comprising a body extending through said air chamber and said central passage, electrodes extending through said ignition device body with their inner ends terminating adjacent to each other near the outlets of said tubes, an ignition circuit connected with said electrodes, one of said electrodes having a bore therethrough, and means for delivering gas through said bore to be ignited by the current flow between the ends of the electrodes to produce a pilot flame for igniting the combustion mixture issuing from said tubes.

1,948,664
CONTINUOUS WIRE-DRAWING APPARATUS
Charles D. Johnson, Worcester, Mass.
Application May 4, 1932. Serial No. 609,098
10 Claims. (Cl. 205—19)



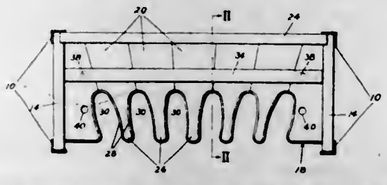
1. A continuous wire-drawing apparatus having, in combination, a drawing drum unit provided with a plurality of drum sections around which the wire to be drawn passes successively, a drawing die for each drum section, dry lubricant holding means mounted on each drum section, and means to cause the dry lubricant carried by each holding means to be applied directly to the wire-receiving surface of the corresponding drum section as the latter rotates.

1,948,665
DRAFT EQUALIZER
Gust Johnson, Independence, Mo.
Application May 2, 1931. Serial No. 534,665
5 Claims. (Cl. 278—8)



1. A draft equalizer comprising main and auxiliary evener member, means pivotally connecting the center of the main evener member with an eccentric point of the auxiliary member and slidable in the latter, pulleys carried by corresponding arms of said members on the same side of said connecting means, an equalizing chain operating around said pulleys, one end of said chain being connected to the main evener member outside of the pulley and the other end of the chain being connected at the eccentric point of the auxiliary member, and means pivotally connecting the other arms of said evener members.

1,948,666
SHOE RACK
Charles Turner Jones, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 13, 1931, Serial No. 574,831
In Great Britain November 18, 1930
4 Claims. (Cl. 211—34)



2. A shoe rack comprising a frame and a series of shoe-supporting members carried by the frame, successive members of the series throughout the length of the rack being shaped to provide shoe-receiving recesses which converge with respect to each other at one side of the rack.

1,948,667
PHENOL ETHERS AND PROCESS OF PREPARING THEM
Georg Kraenzlein and Arthur Voss, Frankfort-on-the-Main-Hochst, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Original application February 7, 1924, Serial No. 691,274. In Germany February 7, 1923. Divided and this application April 3, 1930, Serial No. 441,420
20 Claims. (Cl. 260—64)

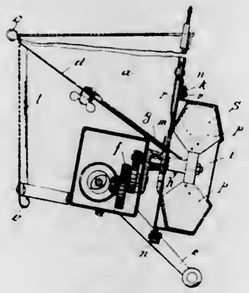
11. As new products, the tanning substances obtainable by reacting a sodium benzylchloride sulfonate with a phenol and condensing the product obtained with formaldehyde, said products being phenol ethers forming homogeneous brownish colored solutions of syrupy consistency, being easily soluble in water and alkalies, precipitating gelatine from its solution and giving characteristic colorations with ferric salts.

19. The products obtainable by reacting a compound of the formula

$$\begin{array}{l} CH_2\text{—halogen} \\ | \\ X \\ | \\ SO_3H \end{array}$$

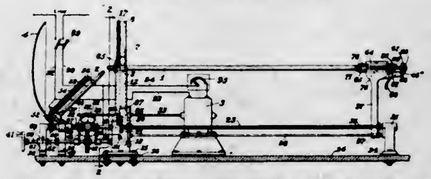
wherein X stands for an alkylene or phenylene group with a phenol, said products being phenol ethers forming homogeneous brownish colored solutions of syrupy consistency, being easily soluble in water and alkalies, precipitating gelatine from its solution and giving characteristic colorations with ferric salts.

1,948,668
DISTRIBUTOR FOR FINELY DIVIDED MATERIAL
Franz Albert Küchler, Frankenhausen-Gosel, Germany
Application May 20, 1932, Serial No. 612,566
In Germany May 26, 1931
1 Claim. (Cl. 275—2)



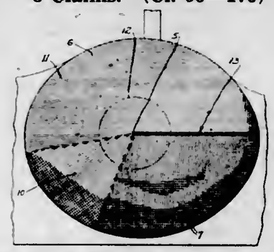
A machine for strewing weed destroying media, fertilizers and the like with hand crank operated blade distributor and adapted to be carried by a chest plate with straps, comprising in combination a hopper having an aperture in its front wall, a downwardly and forwardly inclined bottom plate in said hopper extending to the lower edge of said aperture, a crank operated driving gearing in said hopper underneath said bottom plate, an axle driven by said gearing extending through the front wall of said hopper, a blade wheel on said axle in front of the front wall of said hopper, a casing rotatably mounted on the front wall of said hopper accommodating said blade wheel and communicating with the interior of said hopper through the aperture in the front wall thereof, a strewing pipe fixed on said casing, means for turning said casing together with said strewing pipe in either direction relative to said blade wheel, a stirring spring fixed at one end on the upper side of said bottom plate extending through the aperture in the front wall of said hopper, and a cam carried by said blade wheel under the free end of said spring adapted to impart a vibratory movement to said spring.

1,948,669
ARC LAMP
Eugene Q. Lightner, Washington, D. C.
Application March 13, 1930, Serial No. 435,492
Renewed February 24, 1933
33 Claims. (Cl. 176—66)



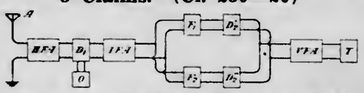
1. In an arc lamp a current feeding holder for an electrode mounted on a rotating current feeding member having an opening therein through which the light from the arc is projected.

1,948,670
KNITTED SHAPED BUST SECTION
Herman H. Mueller, New Holland, Pa., assignor to Vanity Fair Silk Mills, Reading, Pa., a corporation of Pennsylvania
Application March 28, 1933. Serial No. 663,194
3 Claims. (Cl. 66—176)



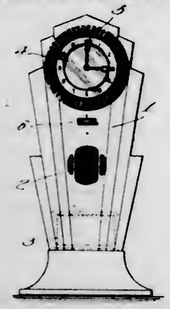
1. Knitted shaped bust section comprising an integrally knit fabric unit including a plurality of courses, and rows of narrowing intersecting said courses and converging toward an apex, defining a triangular area intermediate the ends of said courses, the courses defining an area on one side of said triangular area terminating in that course which embraces the apex of said triangular area, and the area defined by the courses on the opposite side of said triangular area being continued to form an extension beyond that course which embraces said apex, to a length substantially equal to the length of the terminal course of the area on the first mentioned side of said trangular area, the side of said extension and the terminal course of the area on the first mentioned side of said triangular area being united.

1,948,671
RADIOTRANSMISSION WITHOUT DISTORTION
Ralph Kimball Potter, Landing, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application August 22, 1931. Serial No. 558,800
5 Claims. (Cl. 250—20)



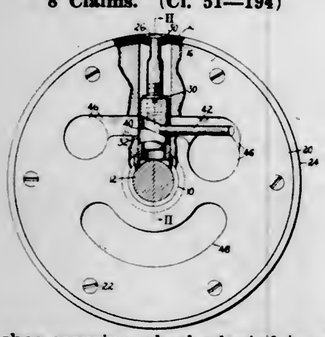
1. The method of radio signaling which consists in receiving a carrier and its two side bands all in normal phase relationship, separating the two side bands from each other, deriving a message from each side band, and combining the two messages additively in a single indicator.

1,948,672
AUTOMATIC TIME CONTROL SYSTEM FOR RADIO RECEIVING APPARATUS
Kendall Purdy, Amityville, N. Y.
Application January 2, 1931. Serial No. 506,222
3 Claims. (Cl. 250—20)



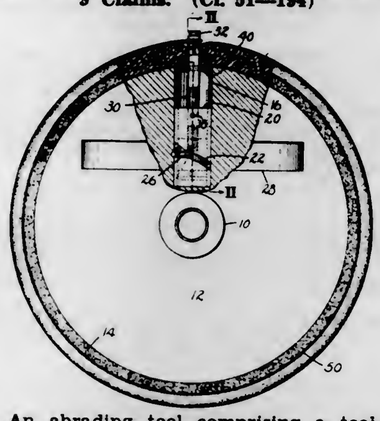
1. An automatic control apparatus for selectively adjusting a radio receiver to particular frequency settings at predetermined times comprising a clock having a plurality of concentric rows of depressible buttons positioned around the face thereof, a brush carried by the hour hand of the clock and adapted to establish wiping connection with the depressed buttons of the control apparatus, a radio receiving apparatus, tuning mechanism for said apparatus, a rotatable shaft for adjusting said tuning mechanism, a cam carried by said shaft, and a multiplicity of solenoids disposed within an angular distance of less than 180° around said cam, one of said solenoids being individual to each concentric row of buttons, said solenoids having plungers operating to impress radially directed impact forces against the periphery of said cam for imparting movement to said cam and correspondingly shifting said rotatable shaft to a predetermined position.

1,948,673
SHOE FINISHING TOOL
William A. Reed, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Original application March 26, 1929, Serial No. 350,081. Divided and this application May 27, 1932. Serial No. 613,885
8 Claims. (Cl. 51—194)



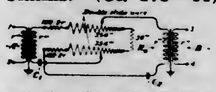
8. A shoe scouring wheel adapted to carry an abrasive cover, comprising a hub, a core, a yieldable support mounted on the periphery of said core for carrying the abrasive cover, a T-shaped clamping hook for the abrasive cover, and a metal clip of concave cross-section disposed across the periphery of said wheel and secured to said core, said clip being countersunk into said yieldable support and serving to receive the cross bar of said clamping hook within its concavity as a clamping abutment for said hook and serving also to retain said yieldable support upon said core.

1,948,674
ABRADING TOOL
William A. Reed, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application May 19, 1933. Serial No. 671,881
9 Claims. (Cl. 51—194)



1. An abrading tool comprising a tool-body constructed and arranged to support an abrasive cover, a member adapted upon engagement with one end of an abrasive cover to hold that end of the abrasive cover against movement on said tool-body, a second member engageable with the other end of the abrasive cover to hold said other end, and operating means for said holding members constructed and arranged upon initial movement to move the first-mentioned member into cover-holding position while leaving the second-mentioned member free, and upon continued movement to move the second-mentioned member into cover-holding position while maintaining the first-mentioned member in cover-holding position.

1,948,675
ARTIFICIAL LINE AND ATTENUATOR OF CONSTANT RESISTANCE
Harold A. Rhodes, Montclair, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application August 25, 1931. Serial No. 559,323
7 Claims. (Cl. 178—44)



1. In a transmission line including an artificial network of adjustable loss, a resistance with two terminals at the ends and two intermediate adjustable contacts, an input circuit across one fixed and one adjustable contact, and an output circuit across the other two contacts the resistance of the network as seen from its terminals remaining invariant.

1,948,676
VALVE
Forest O. Rick, Rhinelander, Wis.
Application December 17, 1927
Serial No. 240,818
1 Claim. (Cl. 251—119)

The combination with a valve casing having a passage therein and a counterbore at one end of the passage, there being an annular seat at said end of the passage and within the counterbore and an annular groove within the wall of the counterbore, of a relatively thin resilient metal plate normally engaging the seat and constituting a valve, said plate having corner portions for sliding engagement with the wall of the counterbore, thereby to hold the sides of the valve spaced from the wall of the counterbore, and a contractable



resilient retaining element bridging the counterbore and normally seated in the groove, said element constituting a backing for the valve when unseated, the thickness of the retaining element being less than the width of the groove whereby said element, when seated in the groove, is held spaced from the marginal portions of the wall of the groove but in clamping engagement with the intermediate or peripheral portion of the wall of the groove.

1,948,677
TRAILER HITCH MECHANISM
Philip T. Robin, Erie, Pa., assignor, by mesne assignments, to The Wellman Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application June 9, 1930. Serial No. 460,033
1 Claim. (Cl. 280—33.1)



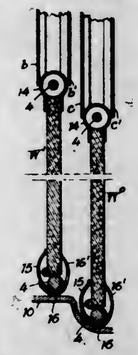
In a trailer mechanism, the combination of a trailer platform; a nose on the platform; a locking bar swiveled on the nose; rollers on the locking bar; a truck; a catch plate on the truck having guides, receiving sockets for the bar, and tracks for the rollers; and latches locking the bar in the sockets.

1,948,678
WINDOW CONSTRUCTION
David E. Ross, La Fayette, Ind., assignor to Rostone Incorporated, La Fayette, Ind., a corporation of Indiana
Application July 18, 1932. Serial No. 623,266
11 Claims. (Cl. 189—75)



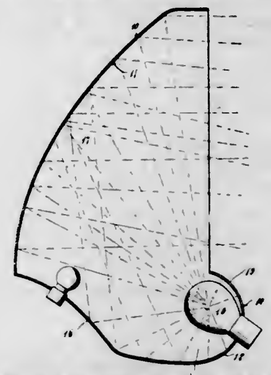
1. In a window, a metal frame, sash guides within the frame, a sash mounted in said guides, and spaced sheets in the upper part of the frame forming a pocket adapted to receive the sash when raised.

1,948,679
WEATHER STRIPPING
David E. Ross, La Fayette, Ind., assignor to Rostone, Incorporated, La Fayette, Ind., a corporation of Indiana
Original application July 18, 1932, Serial No. 623,266. Divided and this application September 15, 1933. Serial No. 689,629
15 Claims. (Cl. 189—65)



1. In combination with a glazed sash, a curved metal strip attached to the sash and engaging one face of the sash and a resilient curved strip connected with the first strip and engaging the opposite face of the sash.

1,948,680
HEADLIGHT REFLECTOR
Charles E. Rose, Denver, Colo.
Application August 4, 1932. Serial No. 627,514
3 Claims. (Cl. 240—41.1)

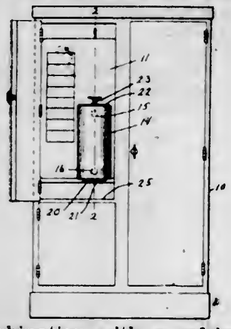


1. A reflector for headlights having a relatively high open face and a relatively low front wall portion below its open face, curving forwardly, upwardly and inwardly and adapted to contain a light source therein, a bottom wall of the reflector extending from said portion with the rear part thereof convexly curved interiorly of the reflector, the front wall portion and said part being at substantially the same height, and a concave side and rear portion extending upwardly from said bottom wall to substantially the front upper edge portion of the reflector, the reflector being of greater height than depth.

1,948,681
COMBINED REFRIGERATOR AND ICE CREAM FREEZER

Albert F. Sawyer, Haverhill, Mass., assignor to Irving L. Keith, Haverhill, Mass.

Application February 13, 1931. Serial No. 515,474
2 Claims. (Cl. 62—101)

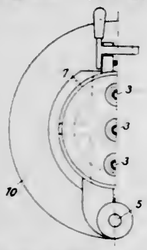


1. In combination with a refrigerating tank having a low point freezing liquid therein, and means for maintaining the temperature thereof at a required low point, an auxiliary chamber having its sides extending vertically between the top and bottom of said tank and arranged in open communication at its upper and its lower ends with the interior of said tank at corresponding levels, to permit the liquid therein to be thermally circulated from the tank into said chamber at its lower end, upward in said chamber and outward therefrom at its upper end back into the tank, thereby to effect a heat exchange between the liquid in said chamber and that in the tank, and a container vertically disposed within said chamber and completely surrounded at its sides by the liquid therein, the top of said container opening to the exterior of said tank and chamber and having a suitable closure.

1,948,682
MANUFACTURE OF GLASSWARE

Adolf Schiller, Berlin-Schoneberg, Germany

Application May 20, 1929, Serial No. 364,596
In Germany May 21, 1928
7 Claims. (Cl. 49—9)



1. Apparatus for forming hollow glassware and of the type including a parison mold structure having a plurality of molding means, a finish mold structure having a plurality of molding means and a head mold structure adapted for successive engagement with said parison and finish mold structure and having a plurality of molding means shaped to register successively with the molding means of the parison and finish mold structures characterized in that each of said structures have a surface having the shape of at least a portion of a right circular cylinder and in that the said molding means are arranged on their respective structures with their center lines lying symmetrically about the axis of the cylindrical surface and in a plane passing through said axis.

1,948,683
PROCESS FOR THE APPROXIMATE SEPARATION OF SOLID AND LIQUID FATTY ACIDS

Ernst Schlenker, Berlin, Germany

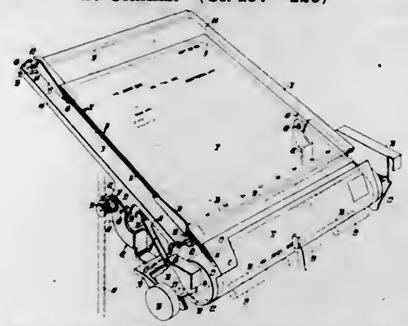
No Drawing. Application April 4, 1931, Serial No. 527,855. In Germany April 11, 1930
9 Claims. (Cl. 87—4)

1. Process for the separation of the solid and liquid fatty acids contained in neutral fats or their fatty acids, consisting in forming a soluble and an insoluble soap in water by saponification of the material with two different alkalis one of which includes sodium hydroxide and is able to furnish a water soluble soap and the other of which includes calcium hydroxide and furnishes a water insoluble soap each in an amount insufficient for complete saponification, separating the resulting precipitate from the soluble soap, and re-transforming the soaps separately into fatty acids by acidification.

1,948,684
TYPEWRITING MACHINE

Jesse A. B. Smith, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application October 20, 1931. Serial No. 569,915
20 Claims. (Cl. 197—126)



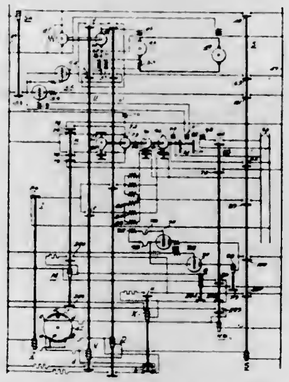
1. In a front-strike typewriting machine, the combination with a revoluble platen, of work-sheet gathering and manifolding means including as an element a set of carbon-sheets fastened together at their lower ends to a flap extending downwardly below said lower carbon-sheet ends and permanently coupled to the platen and including as another element a gathering board for supporting a work-sheet in flat condition, said board being disposed to support at the delivery side of the platen the pack of carbon-sheets and inserted work-sheets, said coupling flap being arranged to receive and hold while still retained around the platen the lower edge of an extra work-piece for typing thereon without interfering with the carbon-sheets and the work-sheets therebetween, said carbon-sheets and work-sheets resting on said gathering board during the insertion and the typing of said extra work-piece.

1,948,685
ELECTRIC CONTROL SYSTEM

Ronald John Stevens, New Malden, England

Application July 3, 1931, Serial No. 548,573
In Great Britain July 7, 1930
11 Claims. (Cl. 172—152)

11. In an elevator system, an elevator car operable in a hatchway past a landing, a motor for driving said car, a variable-voltage generator for supplying said motor, an alternating-current source, an electric discharge device, means including a variable mutual inductance device interconnecting said source and said discharge device for controlling the discharge current of said discharge device, means responsive to the discharge current of said device for controlling a component of excitation of said generator, means responsive to the armature current of said motor

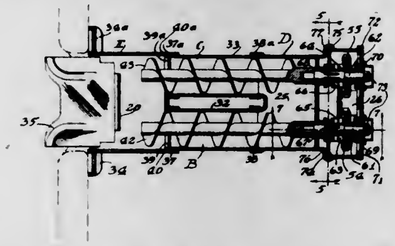


for controlling a second component of excitation of said generator to correct the speed regulation of said motor, a pick-up coil mounted on said car, means for establishing an alternating field at predetermined points in said hatchway to influence said pick-up coil, and means responsive to currents induced in said pick-up coil for controlling said variable mutual inductance device.

1,948,686
STOKER MECHANISM

Charles J. Surdykowski, New York, N. Y., now by judicial change of name Charles J. Surdy, assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware

Application May 27, 1930. Serial No. 456,007
4 Claims. (Cl. 110—101)

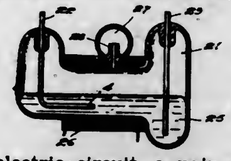


1. In a stoker mechanism, the combination with a furnace having a firing opening and a fuel receiving chamber communicating with said firing opening, a fuel distributor head at the forward end of said chamber, and means for delivering a plurality of separated streams of fuel to said receiving chamber comprising a plurality of substantially parallel conveying screws having opposed pitches and terminating closely adjacent the rearward end of said receiving chamber said screws being rotated in opposite directions and so positioned as to cause said plurality of streams to be converged into a single stream upon delivery of the fuel to said receiving chamber and to urge the fuel through said receiving chamber in a single stream to said fuel distributor head.

1,948,687
ELECTRIC CONTACT

Richard Swinne, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 21, 1932, Serial No. 623,825
In Germany July 29, 1931
9 Claims. (Cl. 200—152)

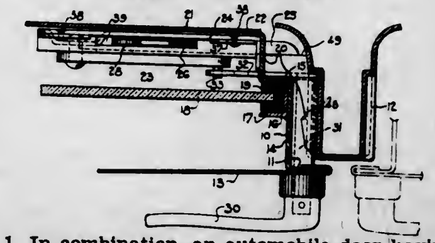


1. In an electric circuit, a pair of separable contact members at least one of which consists of gallium.

1,948,688
LATCH MECHANISM

John P. Tartox, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 14, 1925. Serial No. 50,170
4 Claims. (Cl. 292—337)

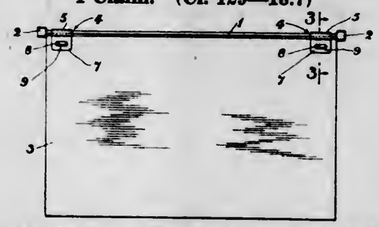


1. In combination, an automobile door having a pressed metal jamb rail, having an integral outward offset in its jamb face together with a latch mechanism connected with said door and provided with interior and exterior latch operating devices inter-locked by means housed in said offset.

1,948,689
CARD HOLDING DEVICE FOR USE IN VISIBLE CARD INDEXES

Edgar Worrall Taylor, Birmingham, England, assignor to The Infallible Card Selecting Company Limited, Birmingham, England, a company of Great Britain

Application August 19, 1931, Serial No. 557,968
In Great Britain August 23, 1930
1 Claim. (Cl. 129—16.7)



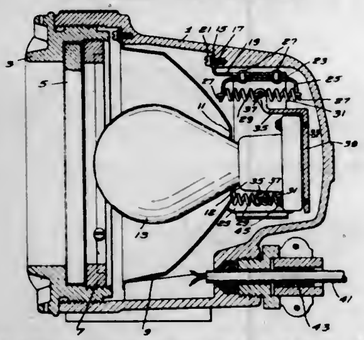
In combination with a card having an aperture, a clip consisting of a folded metal plate and comprising two opposed resilient sides adapted to embrace said card, one of said sides being flat and having a hole, the other side having a ratchet-shaped projection adapted to pass through said aperture in the card and to engage interlockingly with said hole, said ratchet-shaped

projection having two sides one of which is disposed at right angles to the plane of the card to form an abrupt shoulder adapted to engage the top edge of the card aperture to form a positive support for the card, the other side having a gradual inclination to enable it to wipe over the lower edge of the card aperture by moving the card upward, so that the clip may be disengaged from said card by an upward and lateral movement of said card.

1,948,690
ILLUMINATION APPARATUS

Irvine A. Yost, Lakewood, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application November 12, 1931
Serial No. 574,469
9 Claims. (Cl. 240—90)



1. A lighting unit comprising a source of light, a housing, a reflector mounted in the housing, a lamp socket for holding said source of light, means for suspending said socket comprising means fastened to said housing for supporting under tension a plurality of resilient members substantially parallel to the longitudinal axis of said lamp housing, and single means attached directly to the middle of each of said resilient members for supporting said lamp socket therefrom.

1,948,691
STEEL SKELETON FOR REENFORCED CONCRETE STRUCTURES

Bruno Bauer, Vienna, Austria

Application August 23, 1929, Serial No. 387,858
In Austria December 29, 1928
9 Claims. (Cl. 72—76)

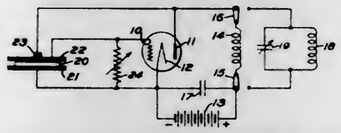


1. A self supporting steel skeleton for a reenforced concrete structure for tall buildings comprising a plurality of spaced bars extending vertically through the entire building, spacing means for joining the bars together outside of the area enclosed by said bars and leaving the cross section of concrete between said bars substantially undivided throughout the length of the column, each bar consisting of a plurality of short units joined at their abutting ends and reenforcing elements to connect the ends of such units.

1,948,692
OSCILLATOR

Joseph G. Beard, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application October 21, 1931
Serial No. 570,199½
8 Claims. (Cl. 250—36)

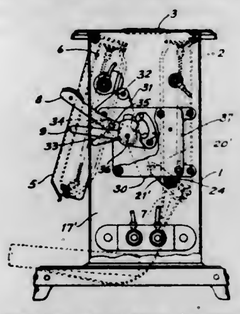


8. A piezo-electric crystal holder comprising a first electrode, a second electrode having a hole therein, means for holding said second electrode spaced away and insulated from said first electrode, a third electrode positioned within said hole, and means for supporting said third electrode from said second electrode and for insulating it therefrom.

1,948,693
TOASTER

Charles E. Beardsley, Bethlehem, Conn., assignor to The Beardsley & Wolcott Mfg. Co., a corporation of Connecticut

Application March 21, 1930, Serial No. 437,920
Renewed September 22, 1933
12 Claims. (Cl. 53—5)

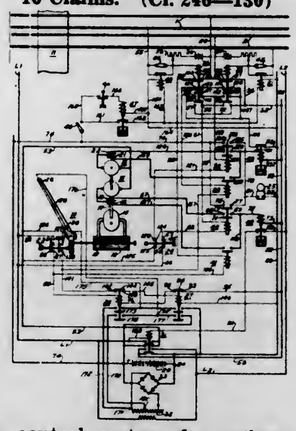


1. In a toaster, a casing having openings at the top and bottom thereof forming an inlet and an outlet for the material to be toasted, a stationary vertical heating element on one side of said casing, a movable vertical heating element spaced from said stationary element, said movable element being mounted to swing away from said stationary element about an axis near the top of said casing, and a spring actuated link member joining said stationary and movable elements and having a pin and slot connection with said movable element, means for normally holding said movable element in closed position against the action of said spring, and means for releasing said last mentioned means to cause the movable element to be snapped open quickly.

1,948,694
CONTROL SYSTEM

Waldemar I. Bendz, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application July 30, 1931. Serial No. 554,135
10 Claims. (Cl. 246—130)

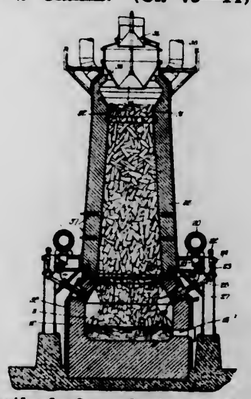


1. In a control system for railway-crossing gates, in combination, a gate disposed to be actuated to guard a railway crossing, means for actuating the gate, switching means for controlling the gate-actuating means, means for transferring the gate-actuating means from one power source to another in case of failure of one power source, and a relay having an actuating coil connected to a section of the railway track and contact members disposed to control the switching means to cause the gate to be actuated to guard the crossing while a train is passing.

1,948,695
METHOD AND APPARATUS FOR THE PRODUCTION OF MOLTEN STEEL

Herman A. Brassert, Chicago, Ill., assignor to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois

Application June 15, 1931. Serial No. 544,492
2 Claims. (Cl. 75—14)

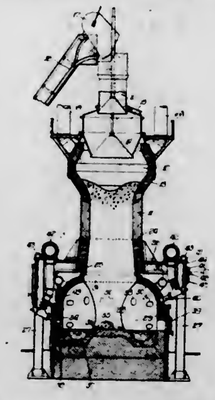


1. The method of producing steel, which comprises melting steel scrap in a vertical shaft furnace solely by means of fuel injected into the furnace and burned out of contact with the scrap whereby the scrap is maintained free of contact with carbonaceous fuels, transferring the molten steel to a second furnace, and treating and refining said steel in the second furnace.

1,948,696
VERTICAL SHAFT FURNACE

Herman A. Brassert, Fredrik Wille, and Paul Zimmermann, Chicago, Ill., assignors to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois

Application July 9, 1931. Serial No. 549,722
13 Claims. (Cl. 266—11)

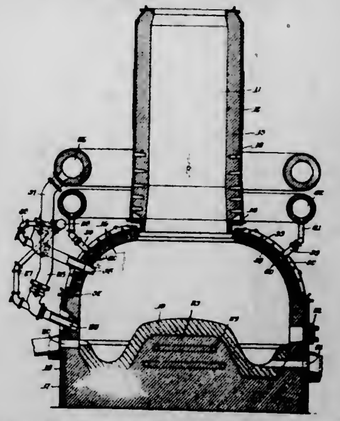


2. A furnace having an enlarged hearth portion, the roof of which consists of a dome shaped metallic covering having interior cooling means therein.

1,948,697
MANUFACTURE OF METALS

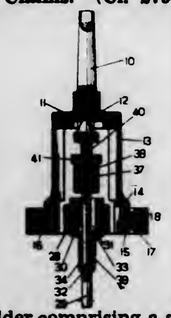
Herman A. Brassert, Chicago, Ill., assignor to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois

Application July 27, 1931. Serial No. 553,249
2 Claims. (Cl. 75—17)



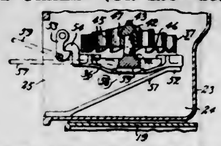
1. The method of metal production, which comprises treating a column of descending ore by surrounding the lower portion of the column with a reducing flame adjacent and spaced from the column of material, the reducing flame being created by the injection of fuel and air, the flame being maintained at a temperature sufficient to melt the reduced ore in the lower portion of the column of material, supporting the column of material out of contact with the melted metal, and passing reduced gases from the flame up through the upper portion of the column whereby the ore in the column is reduced.

1,948,698
TOOL HOLDER
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application October 8, 1928. Serial No. 311,013
9 Claims. (Cl. 279—16)



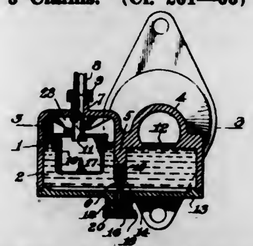
1. A tool holder comprising a shank, a ring supported by the shank for oscillation and reciprocation with respect thereto, a member supported by the ring for oscillation and reciprocation relative thereto, a tool supporting means on the member, and thrust means between the shank and the tool supporting means.

1,948,699
GRATE STRUCTURE FOR BURNING SOLID FUEL
Gustaf Dalén, Lidingo, Sweden, assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden, a corporation of Sweden
Application April 30, 1932. Serial No. 608,363
1 Claim. (Cl. 126—182)



In apparatus of the character described, means providing wall structure defining an ash pit having a lateral opening, means providing guides on opposite walls of said structure, said guides being inclined upwardly and rearwardly of the ash pit from said opening, a grate carrier having a central grate supporting portion and portions adapted to engage said guides to permit the carrier to be inserted in and removed from said ash pit through said lateral opening, the engaging portions of the carrier being supported at the inner upper ends of said guides when the carrier is in operative position, means in the ash pit for releasably engaging other portions of said carrier to hold the same in operative position, and a grate rotatably supported by said central grate supporting portion, said grate comprising a central hub, an outer rim and a plurality of spiral grate bars connecting said hub and said rim, the upper faces of said grate bars sloping progressively from the hub to the rim to provide a grate the enveloping upper surface of which is generally conical, said hub comprising surfaces adapted to engage said central grate supporting portion of the carrier, and the lower face of said rim having notches providing for turning movement of the grate only in the direction tending to cause movement of material carried on the grate toward said rim by the aid of a tool inserted through said lateral opening and engaging one of said notches.

1,948,700
CARBURETOR
Otto George Johan Struycken de Roysancour, Breda, Netherlands
Application June 27, 1930, Serial No. 464,153
In Germany July 12, 1929
3 Claims. (Cl. 261—66)



1. A carburetor for internal combustion engines, comprising a vessel, a partition in said vessel dividing the same into two compartments, one of said compartments containing liquid fuel and the other communicating with the atmosphere and adapted to be subjected to the suction action of a motor, said partition being provided with an orifice the wall of which is without substantial depth, thereby to oppose a minimum of resistance to the flow of fuel.

1,948,701
LIGHTNING ARRESTER
Edward A. Everett, Long Island City, N. Y.
Application February 18, 1929. Serial No. 340,843
9 Claims. (Cl. 175—30)

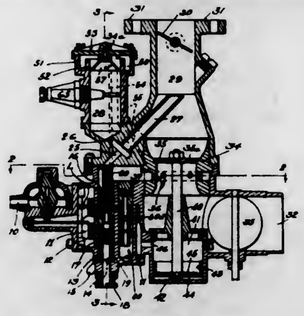


1. In an arrester as described, the combination, a base, a pair of terminals on said base, a flat spring extending from each of said terminals, said springs being in alignment and overlapping each other, a resistant block mounted on one of said springs, spark gap discharge points connected with one of said springs adjacent the sides of said block, a plate of insulation secured to the opposing spring engaging said block by its edge and being free to slide upon said block in line with said springs and spark gap discharge points connected with the other spring adjacent one of the sides of said plate.

8. In a spark gap arrester, the combination, a pair of conducting spring members having between them spark gap discharge points, a resistant block, means electrically connected with one of said members for holding said block in position and providing a rocking motion for said block and means for clamping said block between said members by the spring action of said members.

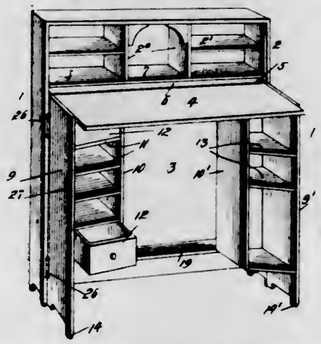
1,948,702
CARBURETOR AND FUEL CONVERTER
Roy F. Ensign and Paul W. Ensign, San Marino, Calif., assignors to Ensign Carburetor Co., Ltd., Huntington Park, Calif., a corporation of California
Continuation of application Serial No. 170,182, February 23, 1927. This application December 18, 1931, Serial No. 581,816. In Germany September 18, 1931
23 Claims. (Cl. 123—122)

3. The method of forming a combustible mixture for internal combustion engine operation, which includes first metering and isolating the proper proportionate amount of fuel for any given and proportionately measured amount of air for the final mixture; then taking from said isolated fuel a small proportion of fuel and burning it with a measured and proper amount of said proportional air to maintain combustion, deliv-



ering to the products of said combustion the remainder of the isolated fuel, thereby quenching any remaining flame and heating and vaporizing said fuel, and thereafter bringing together a portion of said proportional air not utilized in maintaining said combustion, and the combustion products and vaporized fuel to form the final mixture.

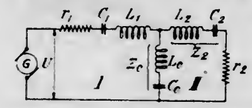
1,948,703
FOLDABLE DESK
John Fanarjian, Union City, N. J., assignor of one-half to Paul M. Hammalian, John M. Hammalian, and Jacob M. Hammalian
Application March 31, 1928. Serial No. 266,127
1 Claim. (Cl. 45—6)



A foldable desk embodying a body having in folded position substantially the conformation of a rectangular parallelopiped and composed of an upper section comprising a cabinet member provided with a vertically-swinging hinged closure member movable into vertical position to close the upper compartment and also movable into substantially horizontal position to form a writing top, a lower-compartment section also comprising a cabinet member disposed in substantially the same plane as the said upper-section cabinet member and having a pair of doors hingedly mounted on the edges of said lower-compartment cabinet member to swing horizontally, beneath the open position of said vertically-swinging closure member, into closed positions coinciding with the face of said lower-compartment cabinet member and into open position at right angles thereto, said doors being of a width

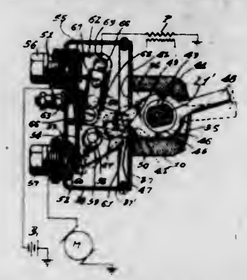
to cause their free edges to meet at the middle of said cabinet-member, said horizontally-swinging doors having filing casings carried on the interior surfaces thereof, the said filing casings being disposed when the doors are in open position beneath the vertically swinging closure member to support said vertically-swinging closure member when in open position, and a link connecting the edge of the filing cabinet remote from the hinge with a stationary desk portion to guide and support said edge during folding movement thereof.

1,948,704
METHOD OF OPERATING HIGH FREQUENCY FURNACES
Wilhelm Fischer, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany
Application November 20, 1926, Serial No. 149,750
In Germany January 30, 1926
11 Claims. (Cl. 172—246)



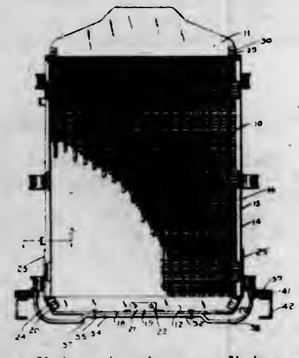
1. The method of operating a system having a circuit including a high frequency generator to produce a sustained frequency, a load circuit coupled to the generator circuit and including a consuming element subject to variation in impedance during operation, and tuning means to tune said load circuit to the sustained frequency, which comprises varying the tuning means and the coupling to maintain the load circuit substantially resonant to the sustained frequency and to control the magnitude of energy delivered by the generator to the load circuit as the impedance of said element varies.

1,948,705
LOCK STRUCTURE
Fred L. Flanders, Spring Lake, Mich., assignor to Oakes Products Corporation, North Chicago, Ill., a corporation of Michigan
Application October 24, 1932. Serial No. 639,222
11 Claims. (Cl. 70—127)



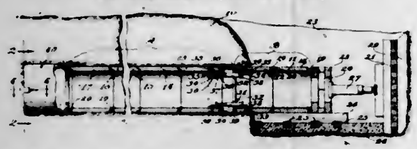
1. A combined starting and ignition switch structure comprising a starting switch and an ignition switch, a manually operable actuating lever for said switches, means operable to close both switches when said lever is shifted in one direction, a lost motion connection between said lever and ignition switch permitting partial return movement of said lever to release only said starting switch, a shiftable fulcrum shaft for said lever, and locking means controlled by the shifting of said shaft for locking said lever against rotation.

1,948,706
RADIATOR MOUNTING
Fred L. Foster, Jamestown, N. Y., assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y., a corporation of New York
Application November 28, 1930
Serial No. 498,542
4 Claims. (Cl. 180—68)



3. In a radiator structure, radiator core supporting means comprising channel elements, said elements being permanently joined throughout their length to the vertical edges of a core, a bottom element connecting said channel elements, said bottom element conforming to the contour of the under-face of the bottom tank of said core and in permanent abutment therewith, a spring-like suspension, said suspension being supported at its ends on a vehicle chassis, and means rigidly securing the central portion of said bottom element to the central portion of said suspension.

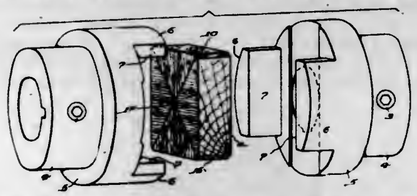
1,948,707
APPARATUS AND METHOD FOR INSTALLING PIPE
Charles Gilman, Plainfield, N. J., assignor to Massey Concrete Products Corporation, Chicago, Ill., a corporation of Virginia
Application October 24, 1932. Serial No. 639,286
16 Claims. (Cl. 61—85)



1. A method of installing pipe which comprises forcing a plurality of cylindrical pipes longitudinally into an embankment, excavating from said embankment from the inside of said pipes, forcing another unit consisting of pipe to follow said first mentioned pipes step by step, and shielding the space between successive pipe units during the time there is a gap between the pipes.

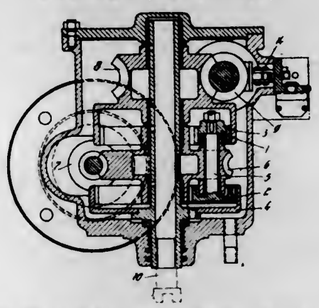
1,948,708
FLEXIBLE COUPLING
John R. Grundy, Philadelphia, Pa.
Application March 9, 1933. Serial No. 660,132
12 Claims. (Cl. 64—96)

1. A flexible coupling comprising substantially identical oppositely disposed yokes having interfitting bosses projecting respectively from each yoke toward the other, a floating block comprising complementary relatively movable segments interposed between said yokes within said bosses, and means operative to effect sliding interengage-



ment of each segment with its next adjacent segment.

1,948,709
VALVE
Johannes Hackethal, Nordhausen, Germany, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application November 23, 1931, Serial No. 576,821
In Germany November 20, 1930
3 Claims. (Cl. 137—139)

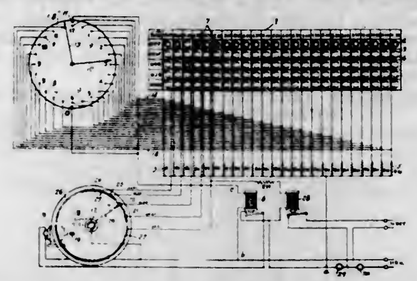


1. A valve, the spindle of which is displaceable through a differential gear simultaneously by a motor and by hand independently of one another, in combination with a limit switch in connection with said differential gear, said differential gear being at least partly interposed between the motor and the limit switch, a self-locking worm capable of being shifted axially in both directions in opposition to the action of a spring being used for the hand drive, and means being provided for operating said limit switches from said worm.

1,948,710
AUTOMATIC RADIO TUNING MECHANISM
Frank Harte, New York, N. Y., assignor to Reuben Papert, New York, N. Y.
Application April 1, 1929. Serial No. 351,537
4 Claims. (Cl. 250—20)

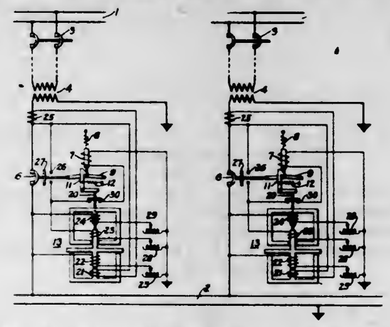
1. In combination with a radio receiving set, an apparatus of the kind described comprising a clock, a switchboard, a series of double contact open-type jacks thereon, a plurality of resistance elements, a motor, an electric circuit including power lines supplying power to said motor, a tuning shaft in said receiving set, two relays, the clock having on its dial face a plurality of contact points each connected by suitable wiring to the series of jacks arranged in columns and rows on said switchboard, a plurality of plugs for completing the circuit through said jacks, electric wiring connecting each of said contact points with one of the contacts of one of the series of jacks connected in multiple and through one of said resistance elements to one of the main lines supplying power to the motor actu-

ating the tuning shaft of the receiving apparatus, a contact arm connected to said tuning shaft and rotating therewith, a board rigidly mounted about said shaft and having thereon a plurality



of contact points with which said contact arm is adapted to contact, and electric wiring connecting said contact points to the second set of jack contacts connected in multiple.

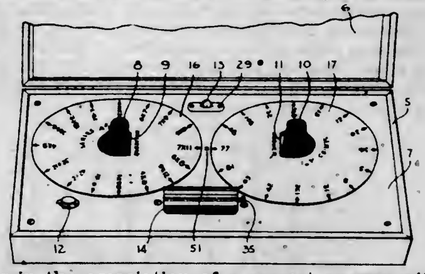
1,948,711
NETWORK DISTRIBUTION SYSTEM
Edgar A. Hester, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 25, 1932. Serial No. 630,395
9 Claims. (Cl. 175—294)



1. In an electrical distribution system comprising a distribution circuit and a plurality of transformers for supplying energy to said circuit, the combination with a plurality of circuit interrupters of the latched-closed type for controlling the flow of power through said transformers, of a magnetic tripping device for mechanically tripping each interrupter in response to a predetermined direction and magnitude of current flowing in the transformer associated therewith, and means controlled by said tripping device for reclosing said interrupter when the transformer voltage bears a predetermined relation to the network voltage.

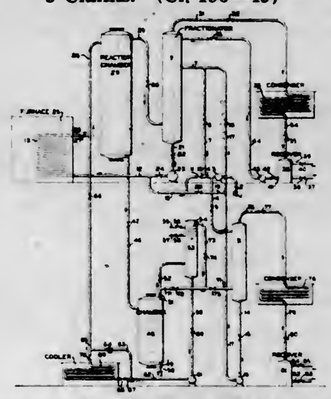
1,948,712
EDUCATIONAL DEVICE OR GAME
Elias J. Hornung, Rochester, N. Y.
Application January 7, 1932. Serial No. 585,333
16 Claims. (Cl. 35—2)

1. In a device of the character described, a question member bearing indicia forming questions, an answer member bearing indicia forming answers, each member being rotatable to associate a selected question with a selected answer, a circuit including a source of current and an indicator, said circuit having at least one break point therein, and means actuated by said mem-



bers in the association of a correct answer with a selected question for closing said break point.

1,948,713
TREATMENT OF HYDROCARBON OILS
Lyman C. Huff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
Application November 10, 1930
Serial No. 494,616
5 Claims. (Cl. 196—49)

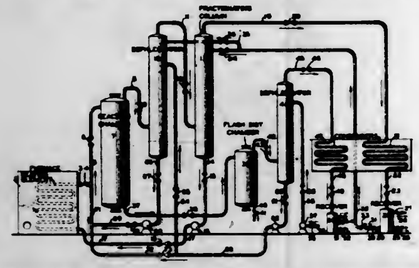


1. A process for converting hydrocarbon oil which comprises subjecting oil to cracking conditions in a heating zone, reacting the heated oil in a reaction zone with the separation of vapors and unvaporized residue, withdrawing residue from the reaction zone, and subjecting it to distillation in a zone of reduced pressure with the formation of further vapors and residue separately, subjecting the first-named vapors and the last-named vapors to partial condensation, then withdrawing the heavy components of the last-named vapors as condensate and commingling the same without prior heating to cracking temperature with heated oil from the heating zone prior to its entrance into the reaction zone to cool said heated oil.

1,948,714
TREATMENT OF HYDROCARBON OILS
Lyman C. Huff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
Application November 15, 1930
Serial No. 495,909
7 Claims. (Cl. 196—49)

1. A cracking process which comprises maintaining hydrocarbon oil under cracking conditions of temperature and pressure in a reaction zone, separately removing vapors and unvaporized

oil from the reaction zone, dephlegmating the vapors to form a reflux condensate, flash distilling the unvaporized oil by pressure reduction, dephlegmating the resultant flashed vapors thereby forming a flash reflux condensate of higher boiling point than the first-mentioned reflux condensate, passing said first-mentioned reflux conden-



sate, unadmixed with heavier oil, through a heating zone and heating the same therein to its cracking temperature, discharging the thus heated reflux condensate into said reaction zone, and commingling said flash reflux condensate, without prior heating to cracking temperature, with the heated reflux condensate discharging from the heating zone into the reaction zone.

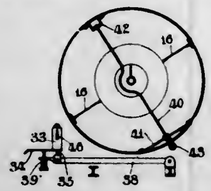
1,948,715

METERING AND CLOSURE LOCKING MEANS FOR CONCRETE MIXERS

Gebhard Jaeger and Joseph Eggert, Columbus, Ohio, assignors to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application June 15, 1931. Serial No. 544,458

3 Claims. (Cl. 83—73)



1. In a concrete mixer, a rotary mixing drum, a metering element for the rotation of the mixing drum, means movably mounted within the drum and extending through an opening in a wall of the drum, said means projected by the contents of the drum, and an operating device for said meter located in the path of said projected means and cooperating therewith to cause operation of the metering element by the rotation of the drum.

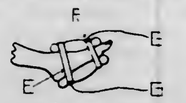
1,948,716

DIATHERMY CONTACT PAD

Charles Francis Jenkins, Washington, D. C.

Application July 14, 1933. Serial No. 680,467

1 Claim. (Cl. 174—89)



A diathermy pad electrode comprising a cover made of pliable metallic material, and an intermingled fibrous metallic filling contained within said cover.

1,948,717

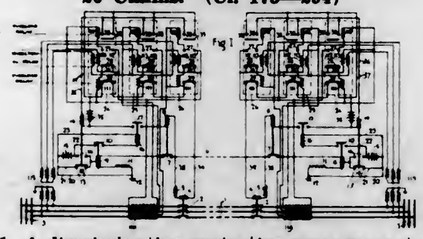
PROTECTIVE ARRANGEMENT FOR ALTERNATING CURRENT POLYPHASE POWER TRANSMISSION SYSTEMS

Reginald Otto Kapp and Charles George Carrothers, London, England, assignors of one-half to The General Electric Company Limited, London, England, a corporation of Great Britain

Application April 23, 1932, Serial No. 607,206

In Great Britain May 1, 1931

20 Claims. (Cl. 175—294)



1. A discriminative protective arrangement for a sectionalized polyphase electric power transmission system comprising protective switching means associated with a section and means for governing the operation of the protective switching means including means for exerting control at one end of the section from the other end thereof, single phase power directional elements respectively operatively associated with different phases at the said section end, single phase current elements respectively operatively associated with the said phases at the said section end, the directional and current elements of the same phase being adapted to act in conjunction to effect control and current elements at the section ends required to be operated to cut out the ends of the section.

1,948,718

SELF-LUMINOUS DEVICE

Joseph A. Kelly, New York, N. Y., assignor to Radium Dial Company, New York, N. Y., a corporation of Delaware

Application March 29, 1932. Serial No. 601,757

1 Claim. (Cl. 240—2.25)



In combination a ball chain terminating in a bell shaped terminal member, a coating of radium luminous material on said terminal member, a transparent glass bell supported directly by said terminal member whereby said coating is visible through said glass bell, said terminal member substantially conforming in shape to the inner face of said glass bell.

1,948,719

METAL SEAL FOR WIRE AND THE LIKE

William King, Clapham Park, London, England

Application August 16, 1932, Serial No. 629,024

In Great Britain February 26, 1932

6 Claims. (Cl. 24—23)



1. A metal seal for mechanically connecting together the ends of a wire box strap or the like, comprising a tube like member, the upper and

lower surfaces thereof being provided with oppositely disposed longitudinal internal projections which substantially divide the internal bore of the tube into two parts, each adapted to receive a single wire, the space between the internal longitudinal projections being insufficient to allow the passage of the wire from one part of the bore to the other.

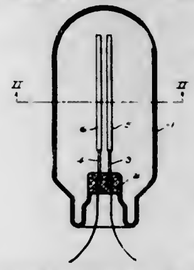
1,948,720

TELEVISION RECEIVING LAMP

Dewey D. Knowles, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application February 5, 1929. Serial No. 337,699

11 Claims. (Cl. 176—122)



1. An electrical-discharge device comprising an envelope containing a noble gas, electrodes therein spaced apart by a distance so small that a potential impressed across them causes a glow on one of said electrodes but no glow between said electrodes, and a quantity of hydrogen mixed with said noble gas.

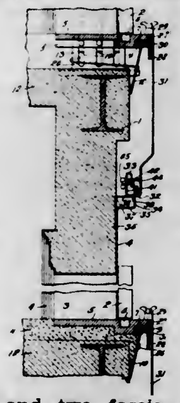
1,948,721

ARCHITECTURAL METAL WORK

Kennard Kornbau, New York, N. Y.

Application April 21, 1932. Serial No. 606,555

9 Claims. (Cl. 189—46)



1. A saddle and two fascia plates secured thereto, an inner one adapted to facilitate grouting and an outer one to cover the masonry of the building.

1,948,722

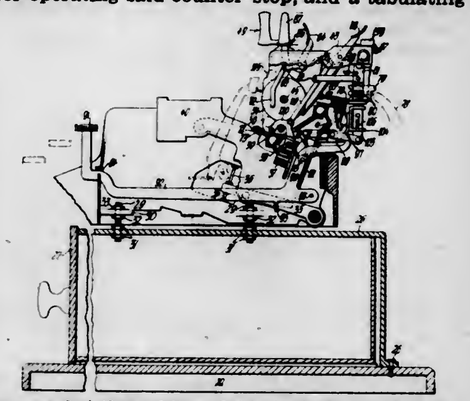
COMBINED TYPEWRITING AND COMPUTING MACHINE

Alfred G. F. Kurowski, Brooklyn, N. Y., assignor to Elliott-Fisher Company, New York, N. Y., a corporation of Delaware

Application March 5, 1929. Serial No. 344,200

5 Claims. (Cl. 197—176)

1. A key-operated typewriting machine and a key-operated adding and printing machine, mounted side by side, a letter-feeding carriage common to the two machines and having a platen and movable from right to left out of the adding field into the typewriting field for letter-feeding, a tabulating mechanism including a rack on said carriage and having column-stops adjustable thereon, a counter-stop, a carriage-release key for operating said counter-stop, and a tabulating



means for the adding field, including a key independent of said carriage-release key and having means to move said stop-rack out of normal position to bring certain stops thereon into co-operative relation with a fixed stop for tabulating the carriage when moved to the right into the adding field, to permit the printing of an amount in the same line with the printing effected by the typewriting types.

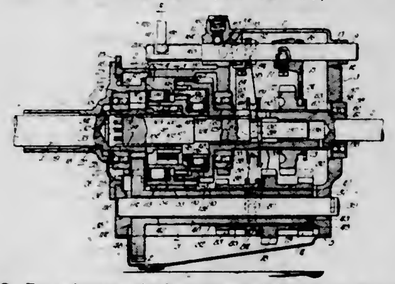
1,948,723

TRANSMISSION

Robert Lapsley, Detroit, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application January 19, 1929. Serial No. 333,686

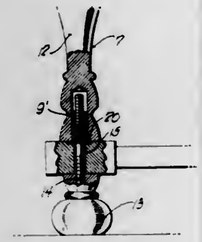
33 Claims. (Cl. 74—57)



33. In a transmission comprising a casing having a plurality of bores disposed in coaxial relationship, the combination of a driving and a driven shaft disposed in said bores, means supporting said shafts therein, a driving pinion having an elongated hub portion carried by said driving shaft, a second pinion rotatably supported upon said hub portion, an eccentric driving sleeve having cylindrical portions of unequal diameter, the larger portion of said sleeve embracing said rotatable pinion and provided with gear teeth meshing therewith, a bearing support for said eccentric sleeve member for supporting the same in eccentric relation with respect to the axis of said pinions, said bearing support being disposed in one of said coaxial bores and provided with bearing means cooperating with the larger cy-

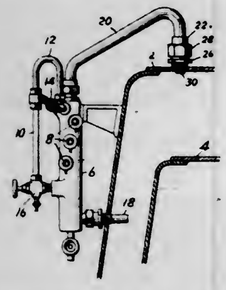
lindrical portion of said driving sleeve, and means connecting said driving sleeve with said driven shaft.

1,948,724
FURNITURE CONSTRUCTION
Carl H. Laun, Milwaukee, Wis., assignor to Kiel Furniture Co., Milwaukee, Wis., a corporation of Wisconsin
Application June 6, 1932. Serial No. 615,587
2 Claims. (Cl. 45—48)



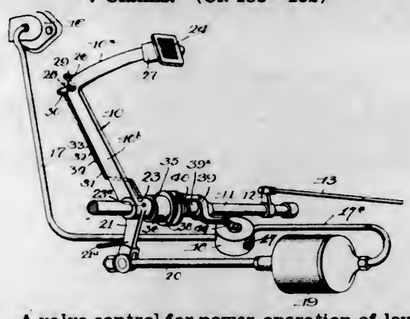
1. In demountable furniture construction, a top or body member to be supported above the floor, a supporting leg for said member, means for readily attachably connecting the supporting member with said member comprising an internally threaded metal socket embedded in said member with its outer end portion exposed, a screw projected axially from the leg for threaded engagement with the socket, and a metal washer on the screw between the leg and the socket, said washer engaging the exposed end of the socket to prevent the drawing of the socket into the leg during forced threading of the screw into the socket.

1,948,725
SAFETY CONNECTION
John D. McClintock, Philadelphia, Pa., assignor to William Sellers & Company Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application January 18, 1933. Serial No. 652,333
4 Claims. (Cl. 122—504)



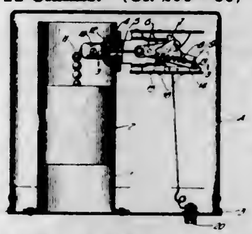
1. In combination, a boiler, a water column, and upper and lower connections between the water column and the boiler, said upper connections including a union adjacent the boiler provided with an outwardly facing seat, a nipple having a flange, and a coupling nut threaded on said union and arranged to clamp the flange of the nipple upon said seat, said connections including a safety extension projecting within the union inwardly of said seat when the parts are assembled.

1,948,726
VALVE CONTROL FOR POWER OPERATION OF LEVERS
William L. McDonald, Geneva, N. Y.
Application November 7, 1932. Serial No. 641,573
7 Claims. (Cl. 188—152)



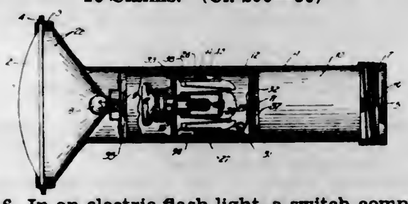
1. A valve control for power operation of levers, comprising a valve, a lever, a sleeve rotatable about the fulcrum axis of said lever and longitudinally movable along said axis as it is rotated, means operatively connecting said sleeve to said valve, a foot piece mounted on said lever and capable of limited movement thereon, and spring-controlled means mounted on said lever operatively connecting said foot piece to rotate said sleeve by the movement of said foot piece.

1,948,727
SWITCH
Francis R. Meginniss, Albany, N. Y.
Application June 19, 1929. Serial No. 371,983
11 Claims. (Cl. 200—60)



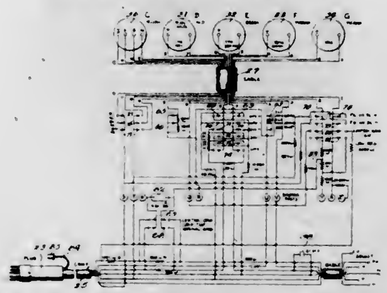
11. In a switch comprising a movable element, means responsive to the movement of said element in the same direction for opening and closing said switch, a guide member, a weight connected to said element and slidable along said member and of sufficient mass to effect an operation of said switch by its own inertia when a bodily movement of said switch is abruptly retarded, and means for automatically returning said switch to its original position.

1,948,728
SWITCH
Francis R. Meginniss, Albany, N. Y.
Application June 19, 1929. Serial No. 371,984
16 Claims. (Cl. 200—60)



16. In an electric flash light, a switch comprising a movable actuating element, means responsive to the movement of said element in the same direction for effecting both a closing and opening operation of said switch, inertia operated means for effecting a switch actuating movement of said element, and means for effecting a return of said element to its initial position after each switch actuating movement.

1,948,729
RADIO SET TESTING APPARATUS
John H. Miller, Oak Park, Ill., assignor to Jewell Electrical Instrument Company, Chicago, Ill., a corporation of New Jersey
Application July 8, 1931. Serial No. 549,356
6 Claims. (Cl. 250—20)



1. In a radio testing apparatus, the combination of an amplifying circuit with a testing device, comprising a plurality of conductors connected with the terminals of one of the sockets of the audion tube circuit, electrical measuring instruments associated with said conductors and adapted to indicate electrical conditions at said socket, and a condenser connected across predetermined contacts of said socket and adapted to prevent oscillation of said audion tube circuit while said electrical instruments are connected in circuit with the audion tube circuit.

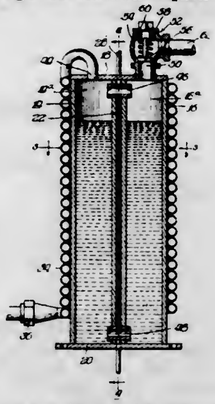
1,948,730
SODIUM-SESQUI-SILICATE AND METHOD OF FORMING THE SAME
George W. Morey, Chevy Chase, Md., assignor to Philadelphia Quartz Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application March 1, 1932
Serial No. 596,160
11 Claims. (Cl. 23—110)

1. The method of producing $3Na_2O.2SiO_2.11H_2O$ which includes preparing a solution composed of 100 parts of $Na_2SiO_3.9H_2O$, 100 parts of NaOH and 100 parts of water and subsequently effecting crystallization thereof.

11. A method of producing $3Na_2O.SiO_2$ in hydrated crystalline form which method includes preparing a solution of more alkaline ratio than metasilicate and crystallizing.

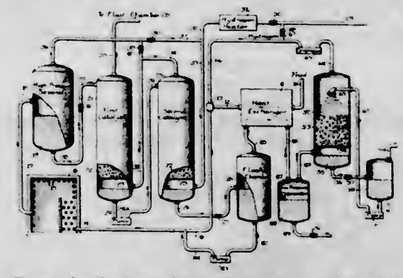
1,948,731
WATER HEATER
Henry Olin, Minneapolis, Minn.
Application August 20, 1931. Serial No. 558,253
6 Claims. (Cl. 219—38)

1. A water heater adapted for heating fluid within the water jacket of an internal combustion engine including a fluid container, means for directing fluid from the water cooling circuit of said engine to said container, means for heating the fluid within said container, valve means responsive to pressure conditions within the container for automatically controlling the successive discharge of heated liquid therefrom, and



means for connecting said valve means with the water jacket of said engine.

1,948,732
HYDROGENATION SYSTEM
Ralph H. Price, Hammond, Ind., assignor to Standard Oil Company (Indiana), Chicago, Ill., a corporation of Indiana
Application May 30, 1930. Serial No. 457,613
4 Claims. (Cl. 196—53)

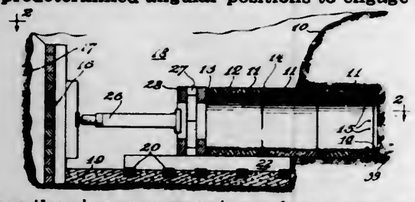


2. In a hydrogenation system, a plurality of catalyst chambers, a heater, a high pressure separator, means for introducing liquid from said heater to said separator, from the separator to the top of a catalyst chamber, and from the bottom of the catalyst chamber to the top of a second catalyst chamber, means for introducing hydrogen at the base of the second chamber, and for conducting it from the top thereof to the base of the first named chamber, and means for introducing gas from said separator to the base of at least one of said chambers.

1,948,733
APPARATUS FOR INSTALLING AND GUIDING PIPE OR THE LIKE
Walter H. Robertson, North Plainfield, N. J., assignor to Massey Concrete Products Corporation, Chicago, Ill., a corporation of Virginia
Application July 18, 1932. Serial No. 623,179
12 Claims. (Cl. 61—84)

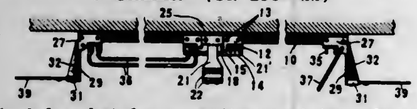
12. In a device for installing concrete pipe the combination of a concrete pipe with supporting body means fixedly secured to said pipe, movable deflector means carried by said supporting body means and pivotally mounted on said supporting body means, and means for adjustably supporting said movable deflector with respect to

said supporting body means whereby said movable deflector may be secured in any of a plurality of predetermined angular positions to engage the



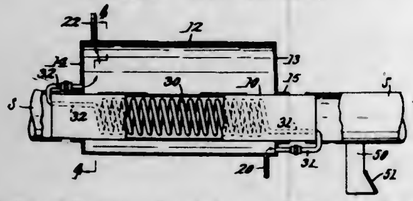
fill as the pipe progresses to produce a component of force transverse to the direction of movement of the pipe and predetermine the direction of movement of the pipe.

1,948,734
BRACKET FOR CURTAIN RODS
David H. Rosenberg, New York, N. Y.
Application October 20, 1933. Serial No. 694,360
7 Claims. (Cl. 156—22)



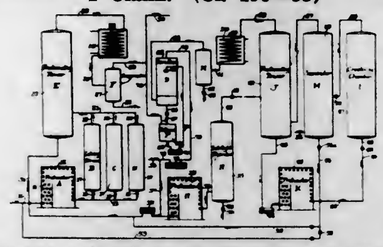
1. A bracket for mounting curtain rods comprising a body portion, means on the body portion for removably supporting the ends of a curtain rod or rods, means on the body portion including spaced horizontal shelves having aligned openings for swingingly and removably supporting a curtain rod and an outwardly extending arm portion, said arm being provided with means for removably supporting another curtain rod.

1,948,735
DOMESTIC WATER HEATER
Andrew Russo, Fitchburg, Mass.
Application October 31, 1932. Serial No. 640,516
1 Claim. (Cl. 257—235)



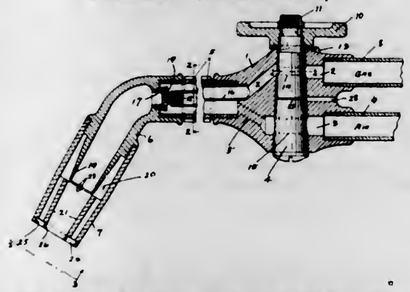
A domestic water heater comprising a substantially cylindrical casing horizontally positioned when in use and having a water inlet at the bottom and adjacent one end of said casing and a water outlet at the top and adjacent the other end of said casing, said casing having also outwardly extending annular flanges eccentrically positioned in the opposite ends of said casing and substantially nearer the bottom edges thereof, a relatively heavy pipe section extending as a single piece through said casing and beyond said flanges, said pipe section closely fitting said flanges and being permanently secured in watertight relation therein, the ends of said pipe section being adapted to fit within commercial smoke flues, and a heating coil mounted in the portion of said pipe section within said casing but spaced radially therefrom and having its ends extending along said pipe section and outwardly around the ends of said pipe section and said coil having reversely directed extreme end portions detachably connected through the ends of said casing to the water space therein, one end of said coil being connected to said casing below said pipe section at the water inlet end and the other end of said coil being connected to said casing above said pipe section at the water outlet end, said casing, pipe section and heating coil constituting a unit when assembled but said heating coil being readily removable from said pipe section.

1,948,736
HYDROGENATION SYSTEM
Robert F. Ruthruff, Hammond, Ind., assignor to Standard Oil Company (Indiana), Chicago, Ill., a corporation of Indiana
Application May 30, 1930. Serial No. 457,612
1 Claim. (Cl. 196—53)



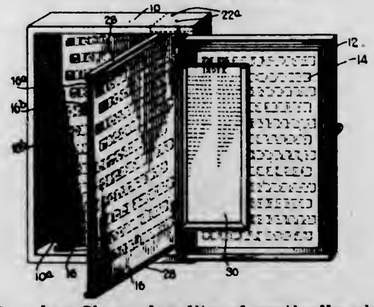
In apparatus for converting heavy hydrocarbons into gasoline, a coking system including means for heating oil to cracking temperature at relatively low pressures, and means for separating gasoline and coke from the remaining reaction products thereof; means for compressing said remaining liquid reaction products to pressures upwards of 100 atmospheres, and means for heating said compressed products to temperatures upwards of 750° F., means for contacting the same with hydrogen at said temperature and pressure, and means for separating gasoline and hydrocarbons lighter than gasoline from the hydrogenation reaction products; means for cracking the remaining hydrogenation products at a pressure of about 200 pounds, means for contacting the cracked vapors with the hydrogenated products and means for returning the cracked residues to a prior stage of the system.

1,948,737
HEATING TORCH
Ludwig W. Stettner, Oakland, Calif., assignor to Victor Welding Equipment Co., San Francisco, Calif., a corporation of Delaware
Application December 2, 1929. Serial No. 411,022
8 Claims. (Cl. 158—27.4)



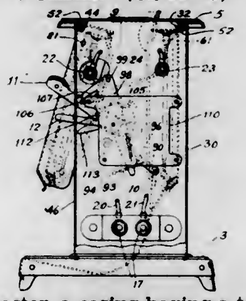
1. In a gas torch of the character described including a valved body, nozzle mixing chamber, and tubular shank threaded at opposite ends respectively to said body and mixing chamber connecting the two and forming a gas passage from the valve to the mixing chamber, a tube within the shank connecting with a gas passage from the valve and extending angularly to and seating centrally in a bore in the mixing chamber.

1,948,738
KEY FILING SYSTEM
Reuel H. Thayer, Los Angeles, Calif., assignor to Thayer Telkee Corporation, San Francisco, Calif., a corporation of California
Application May 9, 1931. Serial No. 536,218
12 Claims. (Cl. 40—19.5)



1. In a key file a plurality of vertically pivoted swinging key panels, visible index means on each panel, a plurality of integral hooks on each panel for supporting a plurality of keys, a card receiving pocket adjacent each key hook adapted to receive a card for identifying said hook in accordance with the respective key therefor, and a separate key index and cross reference mounted for vertical swinging between panels and carried by said file.

1,948,739
TOASTER
Frank E. Wolcott, West Hartford, and Louis V. Lucia, Hartford, Conn., assignors to The Beardsley & Wolcott Mfg. Co., a corporation of Connecticut
Application August 27, 1929. Serial No. 388,756
7 Claims. (Cl. 53—5)



1. In a toaster, a casing having a top inlet and a bottom outlet, a stationary vertical heating member, a movable vertical heating member spaced therefrom, the bread to be toasted being located between said heating members, a bottom support for said toast, and means for shifting said movable heating member outwardly and said bottom support away from said movable heating element to release the toast to permit it to drop by gravity through the botom outlet.

1,948,740
PORTABLE STROBOSCOPE
Douglass A. Young, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application October 6, 1930. Serial No. 486,686
2 Claims. (Cl. 175—183)

1. In a portable stroboscopic watthour meter tester, a source of light, a photo-electric cell exposed thereto, a standard watthour meter having a movable armature disc, means on said disc for intermittently interrupting the light on said photo-electric cell, a grid glow discharge tube, a circuit whereby said tube is flashed by said

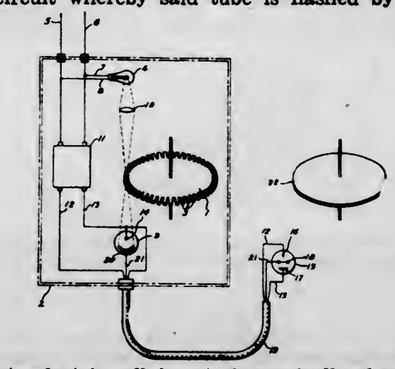
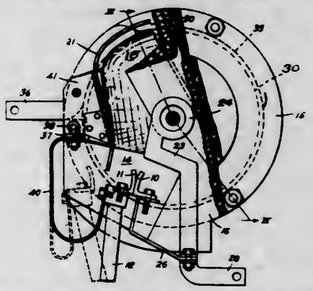


photo-electric cell for stroboscopically observing the marked disc of a watthour meter to be tested, and a frequency changer for supplying high frequency alternating current to energize said circuit whereby the tester may be energized from the regular A. C. service mains.

1,948,741
CIRCUIT INTERRUPTING DEVICE
Niels K. Andersen, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application May 2, 1931. Serial No. 534,555
8 Claims. (Cl. 200—144)

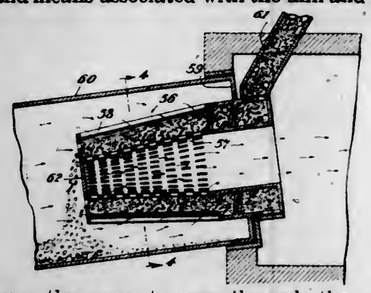


1. A circuit-interrupting device, in combination, means for establishing an electric arc, a pair of spaced insulating members for confining the expansion of the arc, one of said members having a transfer slot through which the arc enters the space between the said members, means for carrying the arc through the slot, and means for maintaining the arc in continuous rotation within the space between said spaced members as long as it continues to flow.

1,948,742
APPARATUS FOR MANUFACTURING CEMENT AND THE LIKE
Arno Andreas, Munster, Germany
Application August 5, 1930, Serial No. 473,197
In Germany September 2, 1929
16 Claims. (Cl. 222—7)

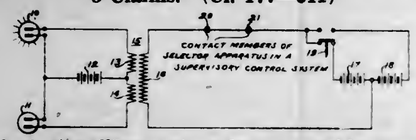
16. In a kiln apparatus, a rotary feed drum therefor, disposed in such manner as to receive the hot combustion gases of the kiln, said drum having a perforated periphery and being adapted, when rotated, to feed into the kiln through the

gases a continuous thin rarefied stream of material, and means associated with the kiln and drum



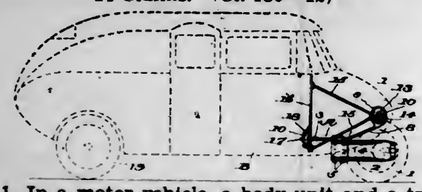
to cause the gases to pass through the perforated periphery in the course of their exit.

1,948,743
SUPERVISORY SYSTEM
Hans Paul Boswau, Galion, Ohio, assignor to The North Electric Manufacturing Company, Galion, Ohio, a corporation of Ohio
Application August 30, 1929. Serial No. 389,390
8 Claims. (Cl. 177—311)



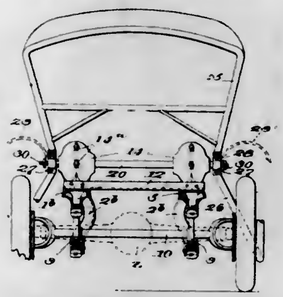
1. A signalling system for a movable member having a plurality of operating positions comprising a plurality of ionic-discharge devices individual to the positions of said member, a source of current for said devices having a voltage between the minimum starting and operating voltages of said devices, means for momentarily decreasing the voltage applied to one of said devices and increasing the voltage applied to another to cause the latter to glow comprising a transformer having a portion of its secondary winding in series with each of said devices, a switch controlled by said movable member for connecting the primary winding of said transformer to current sources of different polarities depending on the position of said member and circuit means for effecting electrical connection between the primary winding, the switch and the current sources of different polarities.

1,948,744
MOTOR VEHICLE
Glenn H. Curtiss, Country Club Estates, Fla.; Lena P. Curtiss sole executrix and trustee of estate of said Glenn H. Curtiss, deceased
Application July 9, 1929. Serial No. 376,985
14 Claims. (Cl. 180—12)



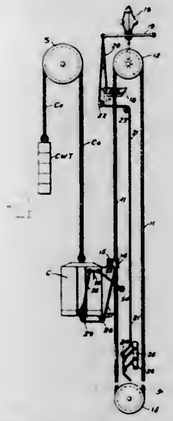
1. In a motor vehicle, a body unit and a two-wheeled power unit having an axle, and a plurality of spaced yieldable coupling members constituting the sole connection between said units, all of said members lying above said axle, and some being disposed in the same transverse plane.

1,948,745
MOTOR VEHICLE
Glenn H. Curtiss, Hammondsport, N. Y.; Lena P. Curtiss sole executrix and trustee of estate of said Glenn H. Curtiss, deceased
Application July 3, 1930. Serial No. 465,749
8 Claims. (Cl. 180—12)



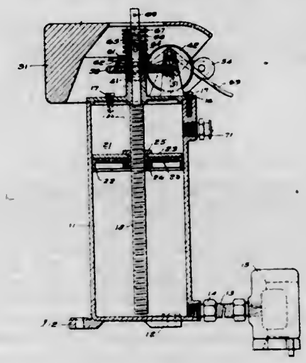
1. A motor vehicle comprising a body unit, and a separate power unit having an axle and a pair of driving wheels, and a plurality of spaced universally yieldable coupling members detachably connecting said units, some of said coupling members being located substantially above said axle, and another of said members being located in substantially the same horizontal plane as said axle and at a relatively great distance from it longitudinally of the vehicle.

1,948,746
ELEVATOR SAFETY DEVICE
James Dunlop, Park Ridge, Ill., assignor to Westinghouse Electric Elevator Company, a corporation of Illinois
Application November 26, 1930
Serial No. 498,389
15 Claims. (Cl. 187—89)



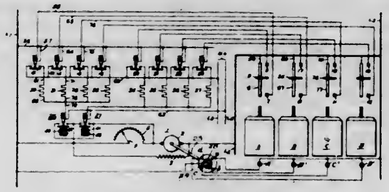
1. In combination with an elevator car, a safety device for retarding the car, means for actuating the safety device in response to overspeeding of the car, means for actuating the safety device when the car approaches a terminal at a speed which is in excess of a predetermined safe rate, means for actuating the safety device when the car overruns a terminal, irrespective of speed, and means for reducing the pressure applied by the safety device when the deceleration of the car exceeds a predetermined rate.

1,948,747
ELEVATOR-GUIDE-RAIL LUBRICATOR
James Dunlop, Park Ridge, Ill., assignor to Westinghouse Electric Elevator Company, a corporation of Illinois
Application May 6, 1931. Serial No. 535,479
3 Claims. (Cl. 184—37)



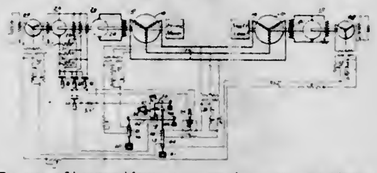
1. In combination with a lubricator for oiling elevator guide rails, a drive wheel for actuating the lubricator, an oscillatable inertia weight mounted on pivots in axial alignment with said wheel, an eccentric cam pivotally mounted on said weight in cooperative relation to said drive wheel, a biasing spring for rotating the eccentric cam into continuous engagement with the periphery of the drive wheel whereby, upon oscillation of the weight in one direction, the cam will bind upon the drive-wheel and turn it without lost motion and, upon oscillation of the weight in the other direction, the cam will slide over the drive-wheel.

1,948,748
ELEVATOR-DISPATCHING SYSTEM
Charles E. Ellis, Jr., Mahwah, N. J., assignor, by mesne assignments, to Westinghouse Electric Elevator Company, Chicago, Ill., a corporation of Illinois
Application March 20, 1930. Serial No. 437,393
7 Claims. (Cl. 177—336)



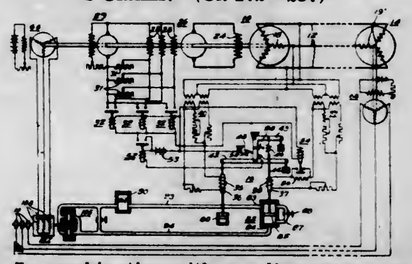
1. In an elevator dispatcher for giving signals for starting cars from a dispatching floor, a timing device, means for adjusting the timing device to effect the giving of the starting signals at predetermined intervals to provide a predetermined schedule for the cars, and means operably responsive to the presence of a predetermined number of cars at the dispatching floor for increasing the speed of the timing device to effect the giving of the starting signals at more frequent intervals than under the predetermined schedule.

1,948,749
REGULATING SYSTEM
Robert D. Evans, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 11, 1933. Serial No. 670,483
18 Claims. (Cl. 172—237)



3. In an alternating-current power system comprising a transmission circuit, a synchronous machine connected thereto and an automatic regulator for controlling the machine excitation in a manner to maintain constant the machine voltage, means for increasing the stability and power limits of said system comprising a compensating element disposed, when energized, to modify the normal action of said regulator, and means for energizing said element in accordance with deviations from a given value in the magnitude of the power-system phase angle.

1,948,750
REGULATING SYSTEM
Robert D. Evans, Swissvale, and Homer C. Nycum, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 11, 1933. Serial No. 670,484
8 Claims. (Cl. 172—237)



1. In combination with an alternating-current transmission system comprising a power circuit, a synchronous machine connected thereto, and an automatic voltage regulator for controlling the excitation of the machine, means for causing the regulator to increase the machine excitation at a rate which is higher than normal when the phase angle between the power voltages at separated points in said system increases in magnitude and at a rate which is lower than normal when the magnitude of said phase angle decreases.

1,948,751
METHOD OF PACKING NESTED PAPER CUPS
Robert C. Fenner, Evanston, Ill., assignor to Vortex Cup Company, Chicago, Ill., a corporation of Delaware
Application January 2, 1931. Serial No. 506,172
3 Claims. (Cl. 93—2)

1. The method of nesting and packing paper cups of conical vertical cross section and of oval cross section into a rectangular knock-down carton body having rectangular end closure flaps, which consists in leaving the flaps open and the carton body in partially knock-down or col-

lapsed conditions to present a comparatively long major axis and short minor axis to readily receive the oval cups directly from the forming machine in nested relation and without distortion thereof and with the major and minor axes of the cups coinciding with the major and minor axes



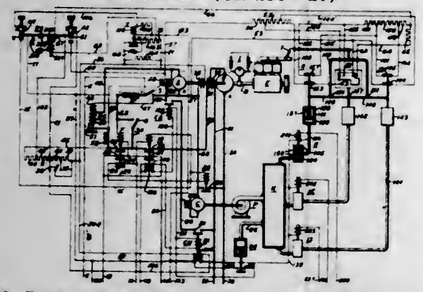
of the collapsed carton body, and then securing the closure flap in place to simultaneously set the carton body to rectangular form and to cause its sides to engage the nested cups at their rim ends at points between the ends of their axes whereby to hold the cups to substantially true oval form.

1,948,752

AUTOMATIC TORQUE FOR GAS ELECTRIC CARS

Newell L. Freeman and Norman W. Storer, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania

Application April 2, 1931. Serial No. 527,270
11 Claims. (Cl. 290—17)



6. In a power system, in combination, an internal-combustion engine adapted to be operated at several selectable load speeds, a main generator driven by the engine and having a separately excited field winding, an auxiliary generator driven by the engine to supply excitation current to the field winding of the main generator, said auxiliary generator having a straight line speed-voltage characteristic, and regulating means responsive to the voltage of the auxiliary generator for controlling the excitation current of the main generator to vary the output of said generator thereby maintaining the speed of the engine substantially constant at the selected load speed.

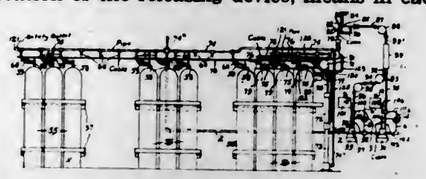
1,948,753

FIRE EXTINGUISHING MEDIUM DISTRIBUTION SYSTEM

Walter H. Freygang, Weehawken, N. J., assignor to Walter Kidde & Company, Inc., a corporation of New York

Application August 6, 1930. Serial No. 473,333
5 Claims. (Cl. 169—11)

1. In a fire extinguishing system comprising a container of fire extinguishing fluid under pressure, a plurality of spaces to which the fire extinguishing fluid is to be conducted, a common conducting means for conducting the fire extinguishing fluid from the container, a separate branch conductor from the common conducting means leading to each place of use, a releasing device for releasing the fire extinguishing fluid from the container into the common conducting means, said releasing device being normally urged to the released position, means for restraining the operation of the releasing device, means in each



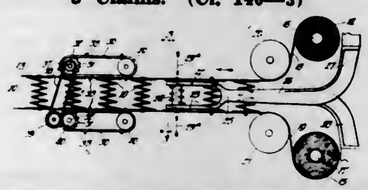
branch conductor for normally closing off each place of use from the common conducting means, each closing off device being normally urged to the open position, means for restraining the opening of each closing off device, and means for rendering ineffective the means restraining the opening of one of the closing off devices, the means restraining the operation of the aforesaid releasing device being rendered ineffective by the opening of any one of the closing off devices.

1,948,754

MANUFACTURING SPRING ASSEMBLIES

John F. Gail, Evanston, Ill., assignor to Simmons Company, New York, N. Y., a corporation of Delaware

Application October 24, 1929. Serial No. 402,141
5 Claims. (Cl. 140—3)



1. The improvement in the art of manufacturing a connected series of axially-vertical-coil wire spring assemblies for bed bottoms or analogous uses, which comprises progressively advancing two series of spaced parallel flexible strands, each forming an integral part of a continuous supply source, the strands of each series being arranged in a single plane, and the two series being positioned in parallel spaced planes, successively positioning between and advancing with said series of strands spaced rows of springs having their axes perpendicular to said planes and connecting each end of each spring to and between adjacent strands of the adjacent plane and subsequently separating the product into unit groups of the desired size.

1,948,755

TELEPHONE BOOTH

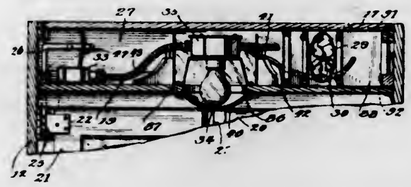
Ole Gullicksen, Chicago, Ill., assignor to Churchill Cabinet Company, Chicago, Ill., a corporation of Illinois

Application February 6, 1931. Serial No. 513,966
3 Claims. (Cl. 20—3.5)

1. In a telephone booth the combination of a booth with an electric fan, a resilient sound insulating rubber cushion interposed between said fan and said booth to prevent transmission of the sound of said fan, said fan being adapted to effect forced ventilation of said booth and said booth having a door, an electric switch

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adapted to control said electric fan, and operative mechanical connections between said switch and said door whereby said door is adapted to actuate said switch, said mechanical connections



including means for permitting lost motion between said door and switch whereby said switch is not actuated until said door reaches a predetermined position.

1,948,756

COMPOSITION OF MATTER

George F. Hadley, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

No Drawing. Original application August 11, 1927, Serial No. 212,363. Divided and this application May 6, 1931. Serial No. 535,554
8 Claims. (Cl. 87—17)

6. The method of producing a binder to secure mica plates together which comprises heating a vegetable drying oil, a natural pitchy hydrocarbon, a polyhydric alcohol and a resin together to a temperature between 250° C. and 300° C. until the vegetable oil polymerizes, the resin reacts with the glycerol, and all excess volatile matter has been driven off the composition being thermoplastic and adapted to bond mica plates for high voltage insulation.

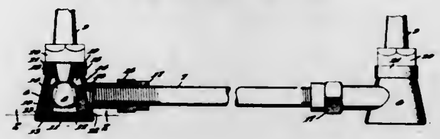
8. A composition of matter comprising polymerized vegetable drying oil, material selected from a group consisting of natural hydrocarbon pitch and stearine pitch, the reaction product of glycerol and a rosin, and a solvent, the composition being thermoplastic and adapted to bond mica plates for high voltage insulation.

1,948,757

BALL AND SOCKET JOINT

Cleo Harris, Cincinnati, Ohio, assignor, by mesne assignments, to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio

Application November 18, 1929
Serial No. 407,857
9 Claims. (Cl. 287—90)



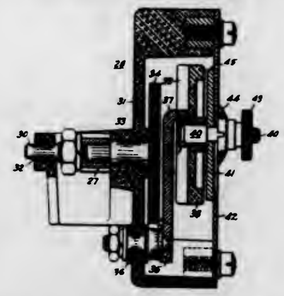
1. A ball and socket joint, comprising, a socket casing, a rod having a ball formed on its end, said ball disposed within the casing, ball seats disposed within the casing at each side of the ball, the respective wall surfaces, engaged by the seats, of semi-cylindrical form and having the longitudinal extents thereof converging, and means for urging the seats against their respective wall surfaces.

1,948,758

TIMING DEVICE

Charles H. Hodgkins, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application April 18, 1930. Serial No. 445,512
5 Claims. (Cl. 58—117)



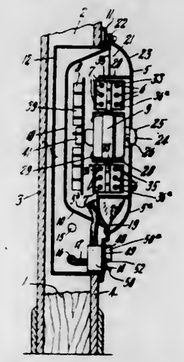
1. In an escapement governor, in combination, a ratchet wheel disposed to be rotated in either direction, a slotted balance wheel disposed for oscillatory movement for controlling the speed at which the ratchet wheel may be driven, means interposed between the ratchet wheel and the balance wheel for translating the rotary motion of the ratchet wheel into an oscillatory motion and cooperating with the slot in the balance wheel to oscillate the balance wheel, and means for varying the amplitude of oscillation of the balance wheel.

1,948,759

ELECTRIC HEATER

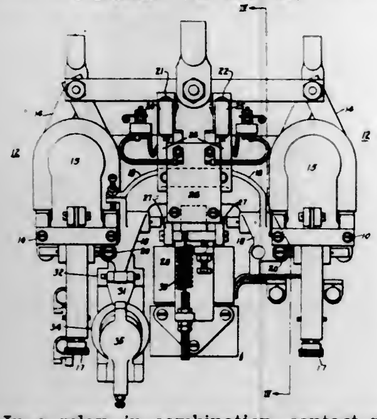
George D. Hoffman, Pasadena, Calif., assignor, by mesne assignments, to Thermador Electrical Manufacturing Company, Los Angeles, Calif., a corporation of California

Application June 13, 1931. Serial No. 544,072
19 Claims. (Cl. 219—39)



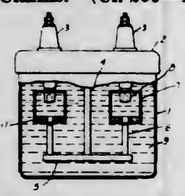
1. An electric heater comprising a grille, an annular partition projecting rearwardly from said grille between the center and the periphery thereof, a deflector having a rear wall spaced apart from said grille and from the rear end of said partition, and having also forwardly extending side walls contiguous at their forward edges to the periphery of the grille, a motor and an electric heating element surrounding the motor, both located in the space surrounded by said partition, and an air impeller driven by said motor and located adjacent to the rear wall of the deflector.

1,948,760
CONTROL SYSTEM
William Martin Hutchison, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application May 28, 1930. Serial No. 456,315
6 Claims. (Cl. 200—98)



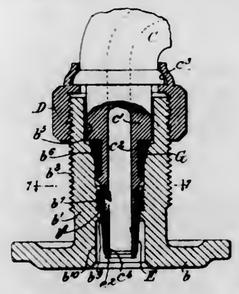
1. In a relay, in combination, contact members disposed to be actuated into and out of engagement to perform switching operations, a voltage coil for actuating some of the contact members into engagement with the other contact members when energized, means for interrupting the engagement between the contact members when the voltage coil is deenergized, and a plurality of current coils each having an independent armature member for actuating said other contact members when energized by a predetermined current whereby the contact members are separated on the failure of voltage or the flow of a predetermined current.

1,948,761
EXPANSION SWITCH
Fritz Kesselring, Berlin-Hermsdorf, Germany, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application June 16, 1930, Serial No. 461,325
In Germany June 19, 1929
12 Claims. (Cl. 200—150)



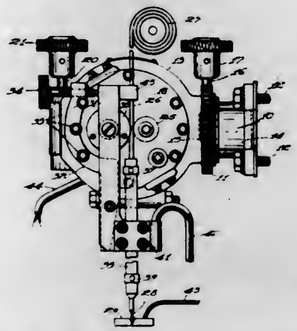
12. In combination in an alternating current circuit interrupter, means for establishing an arc, a quantity of arc quenching liquid from which condensable gas is liberated in the presence of an arc, means including a chamber wherein said liquid is contained and wherein said arc is established for confining said gas, for a period of time, in proximity to the arc being extinguished in order to superheat said gas and to increase its pressure, and venting means for causing said superheated gas to expand adiabatically, said confining means and said venting means being so proportioned that the venting operation causes the confined gas to change from the superheated to the saturated vapor condition and to persist in the saturated vapor condition for a period of time at least equal to one alternation of the arc current.

1,948,762
VALVE STEM
William J. Kirkpatrick, Garden City, N. Y., assignor to A. Schrader's Son, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1930. Serial No. 446,250
4 Claims. (Cl. 285—122)



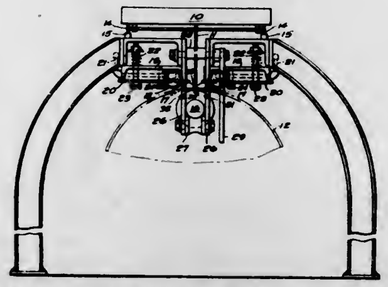
1. A device of the class described comprising two tubular elements, one having a part to engage within the other, an elastic tubular packing carried by one of said elements and engageable by the other to longitudinally distend the same, said tubular packing being reinforced at one end with a relatively rigid ring, whereby to provide an abutment shoulder for engagement by the other tubular element, and means for coupling said tubular elements together with the packing in distended condition.

1,948,763
WELDING APPARATUS
Gustav H. Koch, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 19, 1930
Serial No. 503,402
17 Claims. (Cl. 219—8)



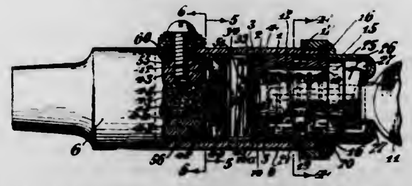
1. A welding head for feeding a welding electrode from a reel to perform a welding operation comprising, in combination, a feeding roller, a motor having driving connection with the feeding roller for effecting the rotation thereof, and guiding means, pivotally mounted on said welding head and disposed to cooperate with the feeding roller to maintain the welding electrode in substantially straight-line relationship.

1,948,764
ARC-WELDING APPARATUS
Gustav H. Koch, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 19, 1930
Serial No. 503,403
9 Claims. (Cl. 219—8)



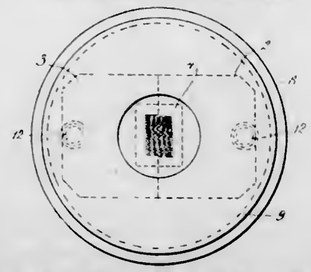
1. Arc welding apparatus comprising, in combination, a welding anvil for positioning underneath the abutting edges of a blank to be welded, a frame for supporting the anvil, a clamping member disposed along the upper surface of each of the abutting edges of the blank and hinged to the frame, resilient means disposed to cooperate with the frame and the hinged clamping members for biasing them out of engagement with the blank, and fluid pressure means disposed between the frame and the clamping members for forcing the abutting edges of the welding blank downwardly into engagement with the anvil.

1,948,765
LOCK
Frederick W. Kulicke, Philadelphia, Pa., assignor, by mesne assignments, to The Electrolock Manufacturing Company, Vicksburg, Miss., a corporation of Mississippi
Application September 12, 1929
Serial No. 392,010
4 Claims. (Cl. 70—46)



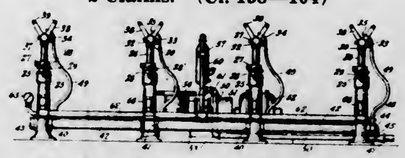
2. In a lock for automobiles and the like, the combination of an open ended casing, a mounting member longitudinally slidable into the open end of said casing and including a locking cylinder axially rotatable in said member from an unlocked to a locked and conversely from a locked to an unlocked position, manually operable retaining means for normally preventing the withdrawal of said mounting member from said casing, and supplemental retaining means for automatically preventing the withdrawal of said mounting member from said casing so long as said locking cylinder is in its locked position and comprising a lug projecting inwardly within said casing into an open ended slot with which the rear end of the member is provided, and a rigid member carried by said locking cylinder and rotatable therewith to a position behind and in registration with said lug as said locking cylinder is moved to its locked position.

1,948,766
LIGHT SENSITIVE CELL
Ray Smith Lyon, Woodside, N. Y., assignor to United Research Corporation, New York, N. Y., a corporation of Delaware
Application October 1, 1930. Serial No. 485,788
10 Claims. (Cl. 201—63)



6. The combination of a hollow cylindrical container, springs at opposite sides thereof, and a glass plate having spaced metallic electrodes on the same side of said plate, each of said springs being in contact with one of said metallic electrodes, photo-sensitive material for said electrodes, a desiccating chamber enclosing said photo-sensitive material, said desiccating chamber extending within said container, and an abutment for said container and against which said springs urge said glass plate, said springs serving as electrical terminals for said electrodes respectively.

1,948,767
CLOTH DRYING APPARATUS
Camiel Malfet, Paterson, N. J.
Application September 22, 1930
Serial No. 483,403
2 Claims. (Cl. 158—104)

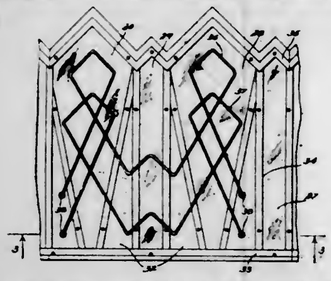


1. In a cloth drying machine, a gas supply pipe having independent connections extending from one end thereof, a series of hollow standards each having a partition therein dividing the same into upper and lower tubular chambers, pipe sections slidably mounted in the upper chamber and extending thereabove, tubular burners carried by said sections, said burners having a single straight row of orifices, pilots carried on said burners centrally of the row of orifices, tubular sections rigidly connecting the base of the standards and communicating therethrough, said tubular sections being in communication with one connection on said gas supply pipe, means connecting the other of said independent gas connections to the upper chamber in each of the standards, and flexible connections between said tubular sections and the pilots.

1,948,768
MARQUISE STRUCTURE
Willis O. Prouty, Hermosa Beach, Calif., assignor to Metlox Corporation, Ltd., Manhattan Beach, Calif., a corporation of California
Application May 4, 1931. Serial No. 535,024
4 Claims. (Cl. 240—10)

1. In a display device, a casing having a series of panel apertures, a frame supported on the cas-

ing and having apertures corresponding to the apertures in the casing, said frame defining a series of panel spaces, removable panels in the



spaces, the panels closing the apertures, whereby the backs of the panels are exposed in the interior of the casing, and luminous tubes supported over the panels by means of supports on the frame.

1,948,769

OVERHEAD DOOR CONSTRUCTION

Alvin V. Rowe, Galesburg, Ill., assignor to Rowe Manufacturing Company, Galesburg, Ill., a corporation of Illinois

Application August 3, 1929. Serial No. 383,302

10 Claims. (Cl. 20—20)



1. In combination with a door opening of a garage or structure of like nature, an overhead door construction comprising a plurality of shiftable door panels for traversing said door opening, guide rails for directing said door panels from one position to another, said guide rails having a substantially vertical section which is movable toward and away from the door jambs, and a lever mechanism operable in response to the closing of the door panels to effect the shifting movement of said vertical rail sections toward the door jambs.

1,948,770

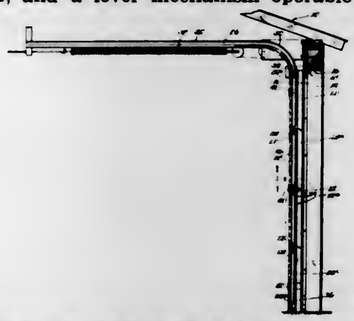
DOOR CONSTRUCTION

Alvin V. Rowe, Galesburg, Ill., assignor to Rowe Manufacturing Company, Galesburg, Ill., a corporation of Illinois

Application January 30, 1931. Serial No. 512,366

7 Claims. (Cl. 20—20)

1. In a door structure, a door frame, a door member slidable over said frame, means for guiding said door member in its sliding movements, means shiftable into engagement with said door member for sealing the same with respect to said frame, and a lever mechanism operable in re-



sponse to the shifting of said door member for actuating said shiftable sealing means.

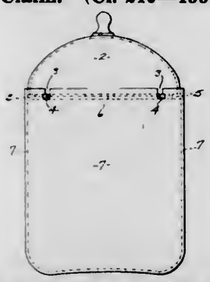
1,948,771

DEVICE TO STRAIN HOT, COOKED GREASE AND CONTAIN SAME

Grace Glunt Rucker, Topeka, Kans.

Application March 24, 1931. Serial No. 524,846

1 Claim. (Cl. 210—155)



In a device to strain, in combination, a cylindrical container of considerable length and having a plurality of depressions spaced around the top of the container, a lid insertable within the wall of the container and free to move downward therein, a strainer consisting of woven wire, and an annular rim to which the wire is attached, the rim insertable within the container and having a plurality of outwardly extending lugs to engage in their respective depressions to avoid downward movement of the strainer and to provide a rest for the lid sealed thereon, by which means the strainer and contents of the container are protected as the strainer is required to carry the lid, and the upper extension of the container above the depressions is means to retain the lid in axial alignment with the container interlappingly.

1,948,772

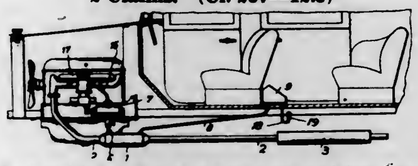
HEATING DEVICE FOR VEHICLES

Oscar Schmid and Wilhelm Heitzmann, Zurich, Switzerland

Application December 30, 1929, Serial No. 417,452

In Switzerland December 31, 1928

2 Claims. (Cl. 237—12.3)



2. A vehicle heating system comprising, an engine carried by said vehicle, said engine having an intake manifold, an exhaust conduit carried by said engine, a steam generator adjacent said engine, said steam generator being disposed in the exhaust conduit, a heating radiator in the body of the vehicle, said steam generator having a steam discharge pipe leading to the heating radiator, an upwardly extending water intake pipe carried by the steam generator, a water tank above the steam generator and to which the water intake pipe is connected, a discharge valve carried by the water tank, control means for said valve, a vacuum pipe connecting said control means with the engine intake manifold, said control means being controlled by the engine intake vacuum whereby water will be discharged by gravity from the tank into the generator, only when the engine is running.

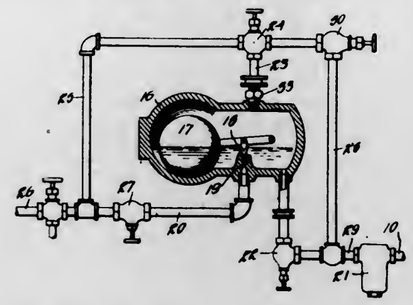
1,948,773

VENT FOR TANKS

Francis Shenton, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a corporation of Pennsylvania

Application January 2, 1930. Serial No. 418,046

3 Claims. (Cl. 62—115)



1. In a refrigerating system, a liquid chamber having inlet and outlet connections thereto, a float operated valve for controlling the outlet, a vent connection positioned in the top of said chamber, said vent being connected to the discharge pipe from said chamber, said vent having a loosely positioned rod therein to reduce its diameter, substantially as set forth.

1,948,774

CONTACT FOR RHEOSTATS AND METHOD FOR AFFIXING THE SAME

David T. Siegel, Chicago, Ill.

Application January 28, 1931. Serial No. 511,766

7 Claims. (Cl. 201—55)



7. The method of manufacturing rheostats which consists in the steps of winding a resistance wire around a core member and then depositing rectangularly shaped spots of molten metal upon a surface of said core member at spaced intervals around the periphery thereof, said molten metal being capable of adhering upon cooling both to the wire and to the surface of said core member.

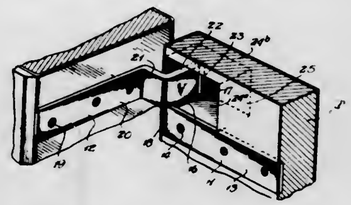
1,948,775

CONCEALED HINGE FOR REFRIGERATORS

Jacob Teller, Chicago, and Arthur P. Schulz, Berwyn, Ill., assignors, by mesne assignments, to Teller Stove Designing Corporation, a corporation of New York

Application January 24, 1931. Serial No. 511,048

1 Claim. (Cl. 16—135)



A flat leaf type hinge comprising a pair of leaf elements each having a knuckle and arranged in superposed edge-to-edge relationship adjacent the knuckles, a pintle connecting the knuckles of said leaves for pivotal movement thereon, one element of the hinge having substantially right angularly extending continuous portions, the angular portion remote from the knuckle constituting an attaching means, and the other leaf element having a section intermediate its ends angularly disposed with respect thereto providing an offset attaching section remote from its knuckle adapted to extend in a plane parallel to the plane of the attaching portion of the other leaf element, whereby said leaf elements are constantly in mutually contacting edge-to-edge relationship at points remote from the knuckles in all operative positions.

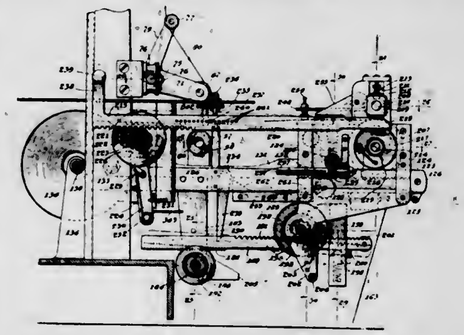
1,948,776

MACHINE FOR WINDING COILS

Chester H. Thordarson, Chicago, and Oscar A. Pearson, Oak Park, Ill., assignors to Thordarson Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application February 24, 1930. Serial No. 430,846

11 Claims. (Cl. 242—10)



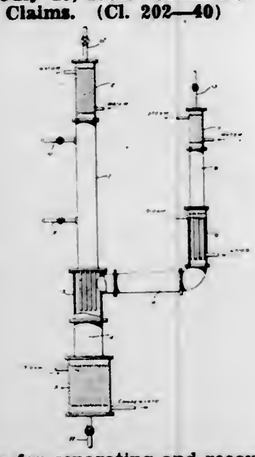
1. A machine of the class described, comprising a rotatable mandrel and means for winding a plurality of coils of wire thereon in layers; a reciprocating carriage arranged to reciprocate toward and away from said mandrel; a roll of flexible insulating material; and means on said carriage for withdrawing sections of material from said roll and severing and inserting said sections between the layers of said coils, each of said means operating in timed relation to each other and to the reciprocation of said carriage.

1,948,777

PROCESS OF SEPARATING HYDROCARBONS

Charles O. Young, Charleston, and Granville A. Perkins, South Charleston, W. Va., assignors to Carbide & Carbon Chemicals Corporation, a corporation of New York

Application July 15, 1931. Serial No. 551,005
9 Claims. (Cl. 202—40)



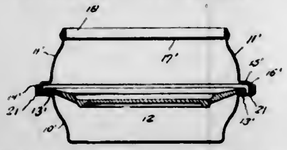
1. A process for separating and recovering diolefine, olefine, and paraffin hydrocarbons from a mixture of hydrocarbons having similar boiling points, which comprises distilling the mixture through a fractionating column down which a liquid organic solvent is continuously caused to flow, said solvent being such that it selectively dissolves diolefines, does not form azeotropic mixtures with the hydrocarbons, and is stable upon prolonged boiling.

1,948,778

SERVICE DEVICF

Hector G. Zoia, Cleveland, Ohio

Application October 26, 1931. Serial No. 571,201
2 Claims. (Cl. 65—59)



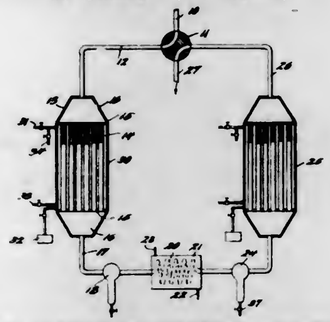
1. A combined table service device and dish warmer comprising a bowl-shaped lower section adapted to contain hot water and having its upper end shaped to provide an outwardly extending horizontal flange upon which the margin of a food-containing plate or dish is adapted to rest with the plate or dish supported above the hot water and closing the top of said lower section, said lower section having its upper end shaped to further provide a vertical flange extending upwardly from the outer edge of said horizontal flange, and a removable upper cover section of inverted bowl shape having its lower end shaped to rest upon the upper end of the lower section in surrounding relation to the marginal edge of the plate or dish and in telescopic relation to said vertical flange of said lower section, said upper section having a depressed top wall whereby a number of the devices may be arranged in stacked relation with the bottom section of each device seated within the top of the upper section of the next lower device, said upper section including a body in the form of an annular shell having an outwardly directed bead near its upper edge, said top wall having its margin pressed around the upper end of said body and into and over said bead respectively at the inner and outer sides thereof.

1,948,779

ADSORPTION SYSTEM

Cornelius Frederick Abbott and Charles A. Conklin, 3d, Baltimore, Md., assignors, by mesne assignments, to Chester F. Hockley, receiver for The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland

Application June 30, 1931. Serial No. 548,050
16 Claims. (Cl. 183—4)



1. The method of continuously removing a condensible from a gaseous mixture comprising passing the mixture successively into contact with two batches of adsorbent, conditioning the mixture while in contact with one batch to activate one batch and to charge the other with condensible, removing condensible from the mixture in passing between batches, and periodically reversing the positions of the batches in the circuit.

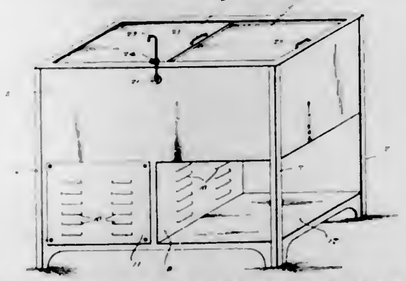
14. The method of removing a condensible from a gaseous mixture comprising contacting the mixture and adsorbent partially saturated with the condensible, under reduced pressure thus enriching the mixture and activating the adsorbent, then cooling the mixture and removing the condensed condensible, then passing the mixture into contact with active adsorbent, delivering the stripped gas and periodically reversing the positions of the adsorbents in the cycle.

1,948,780

REFRIGERATOR

Harold B. Adams, Monett, Mo.

Application October 21, 1931, Serial No. 570,190
Renewed October 26, 1933
2 Claims. (Cl. 62—89)



1. A refrigerator comprising a tank elongated horizontally and open at its top, a vertical partition in the tank providing a pair of compartments, closures for the compartments slidably

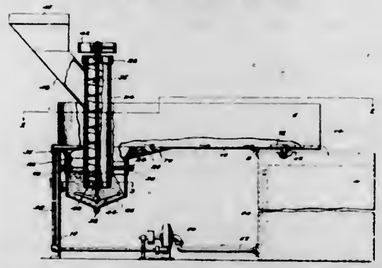
mounted in an upper portion of the tank, a housing depending from the tank beneath one of the compartments, a refrigerating unit mounted in the housing, cooling coils mounted in the said compartments and operatively connected with the refrigerator unit, and a shelf extending horizontally from the housing in spaced relation beneath the other compartment.

1,948,781

GOLD SEPARATOR

Robert F. Berry and Ralph L. Moon, Hanford, Calif.

Application December 31, 1931
Serial No. 584,262
1 Claim. (Cl. 209—48)



A separator of the class described, comprising a settling tank, a trough having a conduit in one end thereof to act as a drain therefrom, a V-shaped baffle plate in the bottom of said trough disposed around the opening of the conduit, the bottom of said trough at the other end sloping downwardly from substantially the mid-point of the length of the trough defining a sub-trough, spaced baffle plates in said sub-trough, a removable container disposed on the bottom of said trough and having its periphery adjacent the terminal edge of the sub-trough, mercury in said container, a casing having a screw conveyor therein extending into the mercury below the level thereof, means for introducing concentrated material containing free milling gold in said casing whereby the concentrated material is conveyed by the screw conveyor into the mercury and contacts the same below the level of the mercury and amalgamation of the gold will be effected and the residue will rise to the surface of the mercury, a plurality of spaced high pressure nozzles in the sides of said tank around the periphery of the container, a conduit to drain any mercury that might be stopped by the V-shaped baffle, a high pressure pump interposed in said conduit, said high pressure nozzles being disposed at an angle with respect to the sides of the tank and the surface of the mercury to cause a centrifugal motion of the residue on the surface of the mercury by the controlling fluid from the nozzles to release particles of mercury that might have adhered to the residue and force the residue over the baffles in said sub-trough and into the main trough into the settling tank where the residue will settle and the fluid will be re-circulated from the settling tank back to the nozzles.

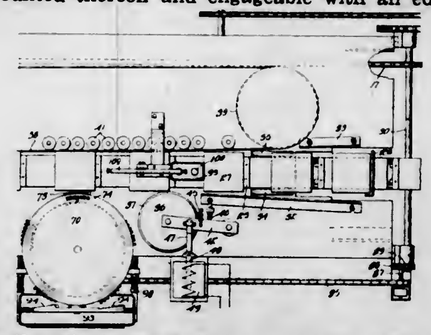
1,948,782

TILE WIDTH OR LENGTH MEASURING AND MARKING MACHINE

James Arthur Bower, Anderson, Ind., assignor to The National Tile Company, Anderson, Ind., a corporation of Ohio

Application June 1, 1931. Serial No. 541,495
12 Claims. (Cl. 101—35)

1. A machine for grading tile according to width comprising a frame having a table mounted thereon, a conveyor belt movable across the table, means for feeding tile to the said conveyor and for aligning them on the conveyor, and a disk having a plurality of markers of different lengths mounted thereon and engageable with an edge



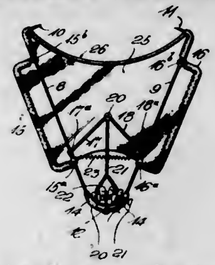
of the tile to mark it in accordance with its width, a support for said disk said support being movable at right angles to the direction of travel of the conveyor belt, substantially as set forth.

1,948,783

PROTECTOR FOR TURPENTINE COLLECTING RECEPTACLES

Artie J. Browning, Brunswick, Ga., assignor of one-fourth to Frank M. Scarlett and one-fourth to Thomas B. Gamble, Brunswick, Ga.

Application April 11, 1933. Serial No. 665,609
12 Claims. (Cl. 47—11)



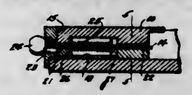
1. A protector for sap collecting receptacles comprising a pair of pivotally connected arms, spikes at the extremities of said arms engageable in a tree, a flexible cover stretchable across said arms, and spring means tending to constantly urge said arms to a parallel position.

1,948,784

MISSILE PROJECTOR FOR GAME BOARDS

Herman Casler, Canastota, N. Y., assignor, by mesne assignments, to The Lindstrom Tool & Toy Company, Inc., Bridgeport, Conn.

Application September 20, 1932
Serial No. 634,059
2 Claims. (Cl. 273—129)



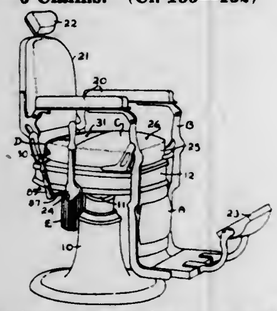
1. An impact shooter for a game board adapted to propel a single ball from a row of balls arranged within a guide way comprising a plunger of approximately the weight of one of said balls and a compression spring actuating said plunger, said spring being proportioned to be fully extended at the end of the movement of said plunger to prevent a pushing effect of the plunger on the rest of the balls after propulsion of the outer end ball by the impact of the plunger upon the inner end ball.

1,948,785
TRUSS
Nicholas Dondelinger, Fostoria, Ohio
Application October 15, 1931. Serial No. 569,075
1 Claim. (Cl. 128—108)



A truss comprising an elongated bar, a truss pad having a cavity in one face thereof, a plate overlying the cavity and having an opening therethrough smaller than said first opening, a pad supporting member on one side of said bar, a clamping means engaging about said member and on opposite sides of said plate to hold said pad in adjusted position on said member, a threaded bolt loosely disposed through said bar, an eye on one end of said bolt loosely receiving said supporting member, a washer about the bolt intermediate said supporting member and said bar, and a nut threaded on said bolt and engaging the opposite side of said bar, tightening of said nut drawing said eye through said washer and binding said supporting member in adjusted position on said bar.

1,948,786
BARBER'S CHAIR
Clarence F. Dorrell, Treece, Kans.
Application March 27, 1933. Serial No. 663,015
6 Claims. (Cl. 155—132)



2. In a chair, a seat frame, a major seating portion rigidly secured to said frame, a minor seating portion to the rear of the major seating portion, and means for moving the minor seating portion to various vertical planes above said seat frame independently of the major seating portion and clear of the vertical plane of said major seating portion.

1,948,787
CAR CONSTRUCTION
Otho C. Duryea, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a corporation of Delaware
Application January 4, 1928. Serial No. 244,523
16 Claims. (Cl. 213—8)



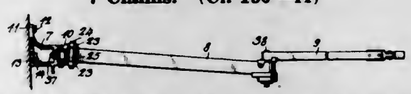
14. In a car structure of the type embodying a body bolster and a longitudinally movable center member constituting a draft and buffing column extending substantially the length of the structure and provided adjacent the opposite ends thereof with couplers, the combination with said center member of means for yieldingly resisting movement of the center member relative to said bolster, said means including a friction member, a follower normally engaging the inner face of said bolster and the adjacent end of said friction member, and stop means secured to said center member for engagement with said follower, said stop means being normally within said bolster.

1,948,788
AWNING ARM HINGE
Louis B. Goldberg, Nathan Goldberg, William Goldberg, and Jacob M. Goldberg, Denver, Colo.
Application April 11, 1933. Serial No. 665,497
6 Claims. (Cl. 156—44)



1. A hinge for a foldable awning arm comprising, in combination, a hinge member formed at one end with a cylindrical opening, a cooperating hinge member having a hinge pin having one end attached thereto, a closure for each end of the cylindrical opening, each closure having an opening for centering the hinge pin in the cylindrical opening, one of the end closures being nonrotatably attached to the arm having the cylindrical opening and the other nonrotatably secured to the arm having the hinge pin, means for holding the pin against longitudinal movement, and a spring located in the cylindrical opening, said spring encircling the pin, the ends of the spring being connected with the end closures whereby its tension will be varied when the arms are moved relative to each other about the pivot pin.

1,948,789
AWNING ARM BRACKET
Louis B. Goldberg, Nathan Goldberg, William Goldberg, and Jacob M. Goldberg, Denver, Colo.
Application April 11, 1933. Serial No. 665,498
7 Claims. (Cl. 156—44)



1. In a bracket of the type employed in connection with foldable awning arms and which comprises a fixed member having one end provided with means for securing it to a wall and having its other end provided with an adjustable bearing support, the fixed member having a web and a flange extending from one side of the web, the outer end of the member having a circular recess with a frusto-conical surface, means for adjusting and for clamping the bearing support comprising, a transverse wall extending between the upper and lower flanges and spaced from the circular recess whereby a guide opening is formed whose width is such that it intersects the circular opening, the bearing support having a circular hub whose outer surface is frusto-conical and which is mounted for rotation in the circular recess, the surface of the hub having a toothed segment, an elongated rack block located in the guide opening, one side of the block having teeth which engage the teeth on the hub, the block having a threaded opening extending through it

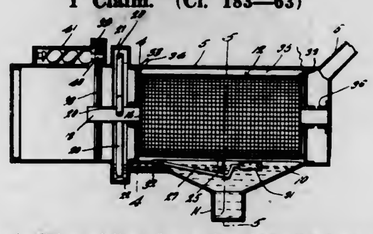
in the direction of its length, the flanges at the top and the bottom of the guide opening having openings that form bearings for a screw, a screw extending through the openings in the flanges and in the block, and means for holding the screw from moving in the direction of its length while permitting it to rotate whereby it can move the block and turn the bearing member.

1,948,790
REFRIGERATION SYSTEM
Ralph V. Grayson, Atlanta, Ga., assignor of fifty per cent to E. G. Ballenger, C. M. Foster, and F. M. Bird, all of Atlanta, Ga., as organizers and incorporators of Refrigeration Patents and Processes, Inc., a corporation to be organized under the laws of Georgia
Application September 10, 1930
Serial No. 480,997
9 Claims. (Cl. 62—104)



1. Refrigeration system comprising, means defining a conduit for the re-current circulation of refrigerated air, said means including a tunnel, and an endless conveyor for the product to be frozen, having a portion thereof travelling longitudinally within said tunnel, of such length and travelling at such speed as to effect the requisite freezing during the sojourn of said product within said tunnel, said conveyor including means cooperating with a wall of said tunnel for repeatedly overturning the product to be frozen during its progress within said tunnel.

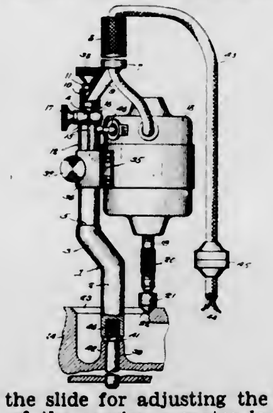
1,948,791
AIR FILTER
Richard R. Halstead, Beach, N. Dak.
Application November 19, 1931
Serial No. 576,164
1 Claim. (Cl. 183—63)



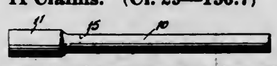
An air filter of the character described comprising a shell, an air inlet at one end of the shell, an air outlet at the opposite end of the shell, said shell being provided with a filtering rotor therein, an internal fluid fountain in the rotor, a sump basin below the rotor, a sump fluid reservoir, a conduit between the reservoir and the basin, and a float valve controlled by the level of fluid in the sump basin and being interposed in the conduit whereby the level of the fluid in the sump basin will be maintained below the rotor.

1,948,792
VALVE SEAT GRINDER
Clifford C. Lee, Aberdeen, S. Dak.
Application May 27, 1933. Serial No. 673,274
9 Claims. (Cl. 51—241)

1. A device for refacing the valve seats of engines, comprising a support provided at its lower end with means for mounting the support on an engine, for rotation with respect to the valve seat of the engine, the support being provided with a substantially vertical shaft which is laterally offset with regard to said means, a carrier mounted for rotatable adjustment on the shaft, means for holding the carrier releasably against rotation on the shaft, a slide mounted to reciprocate for adjustment on the carrier, longitudinally thereof, means connected to the carrier and the slide for adjusting the slide longitudinally of the carrier, a motor located at the side of the carrier, and secured to the slide, rotatable means mounted on and operated by the motor for working upon the valve seat to be refaced, and means at the upper end of the shaft whereby rotation may be imparted to the support.

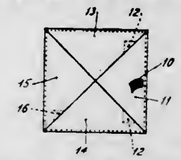


1,948,793
METHOD OF MAKING VALVES
Richard B. Lewis, Jr., St. Cloud, Minn., assignor to Aluminum Industries, Inc., Cincinnati, Ohio
Application May 24, 1932. Serial No. 613,317
11 Claims. (Cl. 29—156.7)



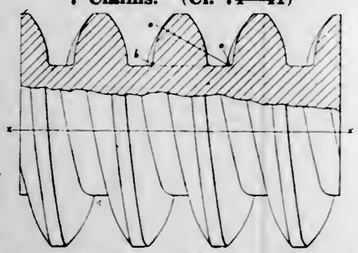
1. The method of forming a valve which comprises butt welding a pair of metal blanks, swaging the blanks to reduce their diameter and increase their length, and forming a valve head from one of said blanks.

1,948,794
RECEPTACLE
Jacques Makowsky, Paris, France.
Application September 3, 1929, Serial No. 390,185
In France May 11, 1929
6 Claims. (Cl. 229—44)



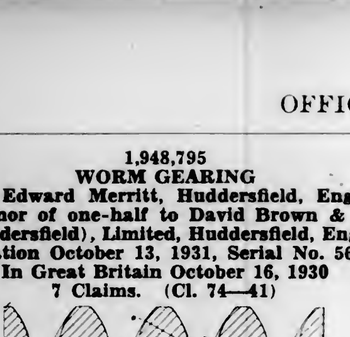
6. A hinged receptacle comprising a rectangular casing and a cover therefor comprising opposed normally abutting triangular sections, each section being hinged to a wall of the casing, one section being provided with a lip normally underlying the second section near the apex of the triangular configuration of the second section and adjacent the hinged connection of the second section with the casing, and the first section being provided with a lifting device, whereby a short upward lift of the first section will impart through the lip a complete swinging and opening movement of the second section lying above it.

1,948,795
WORM GEARING
Henry Edward Merritt, Huddersfield, England, assignor of one-half to David Brown & Sons (Huddersfield), Limited, Huddersfield, England
Application October 13, 1931, Serial No. 568,613
In Great Britain October 16, 1930
7 Claims. (Cl. 74—41)



1. Worm gearing, of the type having worm threads of helical form, characterized in that the worm threads and the teeth of the mating worm wheel are so formed in the manner herein set forth that the lines of contact between them are substantially at right angles to the direction of relative sliding of the worm and wheel tooth surfaces and continuously changing their position with respect to the teeth of the worm wheel.

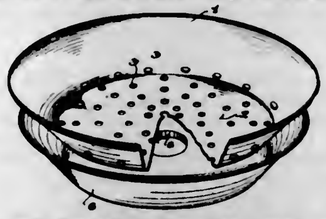
1,948,796
ROTATING SHEARS WITH MOVABLE NON-OPERATED KNIVES FOR CUTTING RUNNING MATERIAL OF ANY REQUIRED LENGTH
Erich Müller, Magdeburg-Sudenburg, Germany
Application October 12, 1931, Serial No. 568,456
In Germany October 13, 1930
6 Claims. (164—68)



1. Rotating shears for cutting rolled materials, comprising a pair of knives, means whereby said knives are mounted to revolve about two parallel axes in such a way that the knives come into shearing relation as they revolve, driving means for causing said knives to revolve at such relative speed that they come into shearing relation after a predetermined number of revolutions, said mounting means including yieldable connections permitting both of said knives to yield together in the same direction parallel to the feed of the rolled materials, to adapt their speed to that of the rolled materials.

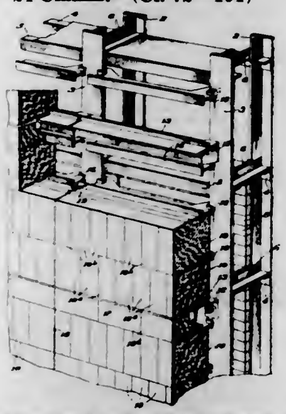
1,948,797
MINER'S PAN
Otto K. Nicolai, Wallace, Idaho
Application July 25, 1932. Serial No. 624,515
1 Claim. (Cl. 209—447)

In a mining implement as described, the combination with an upper pan having openings in its bottom and openings in the lower portions of its side wall, and spacing legs attached at the outer side of its side wall and extending below the bottom of the pan, of a lower pan in which the upper pan is nested, said legs supporting the upper pan in slightly elevated position and with



its side wall spaced within the lower pan, said lower pan having an open center and a bottom sloping to said open center, an exterior central ring on the bottom pan and fastening threads thereon, a detachable cup having complementary grooved wall, and a gasket clamped between the edge of the ring and the bottom of the cup.

1,948,798
FURNACE WALL
Oscar Nygaard, Saugus, Mass.
Application December 30, 1931
Serial No. 583,835
24 Claims. (Cl. 72—101)

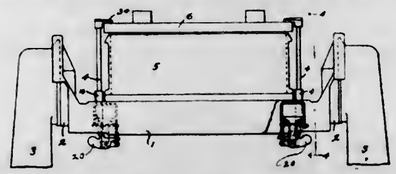


8. A furnace wall comprising front and rear wall sections with an air space separating said sections, a structural steel frame in said wall for supporting said sections, said front section including horizontal rows of blocks arranged one above another, and horizontal bars engaging said blocks and cooperating with said frame to hold said blocks properly alined in the wall, said front section having air passages extending thereinto and permitting a circulation of air from said air space to points adjacent to the fire face of the wall.

1,948,799
AIR OPERATED CLAMP
Earl F. Oyster, Shaker Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 5, 1932. Serial No. 641,408
2 Claims. (Cl. 22—109)

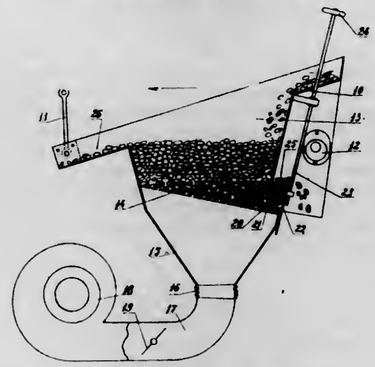
1. In a molding machine having a rollover table, a cylinder, supporting means for the same beneath said table, a piston therein and a piston rod extending through the end of the cylinder

remote from said table and beyond the cylinder supporting means, a pivot mounting carried by said rod beyond the cylinder supporting means, an arm in the plane of said pivots extending at right angles to said pivots, said rod being movable perpendicularly to the plane of said table, a pair of clamp arms carried by said pivot mounting disposed adjacent said table, clamping flanges car-



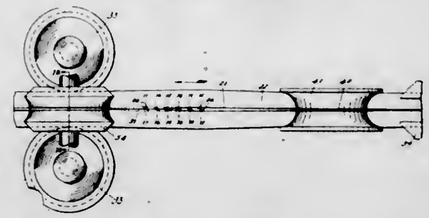
ried by said arms, oppositely directed fixed crank arms at the mounting end of said clamp arms, a spring supported by the pivot-plane arm and acting on one of said crank arms on the same side to tilt the clamp arms in one direction, and a cam on the cylinder mounting adapted for acting on the other of said crank arms to tilt the clamp arms in the opposite direction.

1,948,800
APPARATUS FOR REMOVING STONES FROM COAL
Auguste Jules Revelart, Carvin, France
Application May 27, 1930, Serial No. 456,257
In France June 7, 1929
2 Claims. (Cl. 209—467)



1. An apparatus for the dry removal of stones from coal comprising a chamber adapted to receive the raw material at one end thereof, eccentrics supporting the chamber at this end, links pivoted to a fixed support and connected to the other end of the chamber at substantially the same level as the eccentric for rockably suspending that end of the chamber, said chamber having a perforated bottom positioned below the level of the eccentrics, a vertical partition at the middle of the perforated bottom, a hopper for the discharge of the lighter products provided substantially at the level of the eccentrics but at the other end of the chamber, said chamber having an opening for the discharge of heavy products provided at the level of the perforated bottom at the end of the chamber supported by the eccentrics, said chamber having a second opening for the discharge of intermediate heavy products provided at the level of the perforated bottom at the end of the chamber opposite the eccentrics, and means for forcing a current of air upwardly through the perforated bottom.

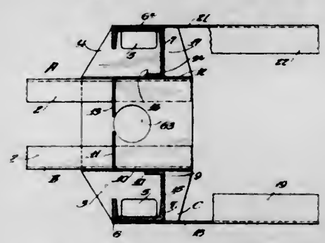
1,948,801
METHOD AND APPARATUS FOR WELDING
Ernest Riemenschneider, Cleveland, Ohio, assignor to Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application July 14, 1933. Serial No. 680,481
13 Claims. (Cl. 219—10)



8. In an apparatus for welding tube-form stock, means for moving the stock along a given path with the edges thereof to be welded in spaced apart juxtaposed relation to form an open seam cleft, a plurality of arc creating devices independent of the stock arranged above said seam cleft, means for directing a stream of gas having a substantial hydrogen content through each arc and down between the spaced apart edges forming the seam cleft and into the tube-form stock whereby an elongated zone of atomic hydrogen is formed in the open seam cleft between the walls thereof to impart its heat to the exposed vertical edges of the cleft throughout substantially their entire depth for creating liquid metal upon said spaced apart edges, and means for moving the edges toward each other to cause the liquid metal of the edges to join and form an elongated narrow pool of liquid metal between said edges.

9. In welding apparatus for welding tube-form stock while it is moving along a given path with the edges of the stock juxtaposed to form a cleft, spreader means operating in said cleft, tube compressing means engaging the tube-form stock on one side of said spreading means, a heating medium on the opposite side of the spreading means, and said compressing means causing the cleft to open a predetermined distance as it moves beneath the heating means to expose the edges of the cleft thereto.

1,948,802
INDUSTRIAL TRUCK
William Schroeder, Chicago, Ill., assignor to Mercury Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 1, 1931. Serial No. 541,309
13 Claims. (Cl. 280—106)



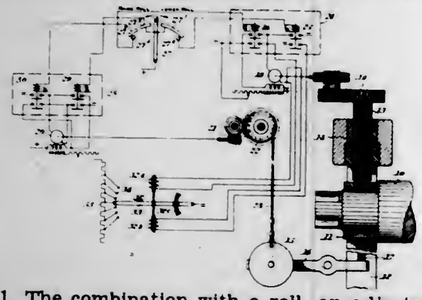
6. A truck frame of the class described, including in combination, main side frame members, a gusset plate welded to the undersides of said main frame members, and uprights for an elevating platform welded to said gusset plate outwardly of and spaced from said side frame members.

1,948,803
RAG DOLL
Dorothy Sherrill, Marshfield, Mass.
Application June 22, 1932. Serial No. 618,610
4 Claims. (Cl. 46—40)



1. A rag doll provided with eyes, and eyelids, each eyelid comprising a cloth member with intersecting arcuate edges, and having one arcuate edge attached to the face of the doll along an arc whose radius is smaller than the radius of said arcuate edge, so that the eyelids project outwardly and downwardly over the eyes.

1,948,804
SCREW-DOWN
Barton R. Shover, Pittsburgh, Pa.
Application February 1, 1932. Serial No. 590,132
6 Claims. (Cl. 80—56)



1. The combination with a roll, an adjustable bearing therefor, a screw for holding said bearing, a counterweight for holding the bearing against the screw, a motor for shifting the screw, a motor for lifting the counterweight, and means responsive to the current supplied to the screw motor for accelerating the counterweight raising motor.

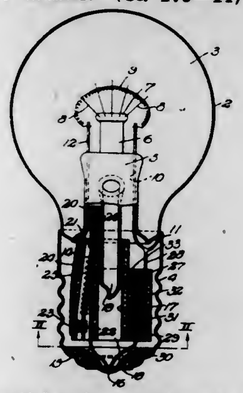
1,948,805
SAND MIXER
Herbert S. Simpson, Chicago, Ill., assignor to The Standard Sand & Machine Company, Chicago, Ill., a corporation of Ohio
Original application August 18, 1932, Serial No. 629,270. Divided and this application January 24, 1933. Serial No. 653,291
2 Claims. (Cl. 22—217)

1. A process of mixing foundry sand consisting in feeding sand to a container, moving the sand lying in a plane transverse to the plane of movement of the sand in opposite directions of different magnitude by members moving in the said transverse plane, each movement of the sand in the exit direction being greater than the movement in the opposite direction in the same plane, said movement simultaneously occurring in a



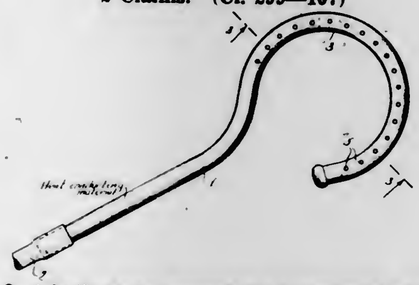
plurality of transverse planes extending from the entrance to the exit of said container, and allowing the sand to be forced through an exit.

1,948,806
LAMP STRUCTURE
Arthur B. Smith, South Brownsville, Pa.
Application January 21, 1931. Serial No. 510,165
8 Claims. (Cl. 176—14)



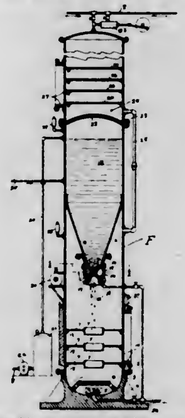
1. As an article of manufacture, a lamp including a stem assembly, a filament carried thereby, means positioned within the stem for exhausting the filament chamber, means carried by and embracing said stem for controlling the circuit to said filament, said means being of the heat responsive type, and condensing means for said circuit controlling means, said circuit controlling means and said condensing means together forming a unitary structure.

1,948,807
BATH SPRAY
Edward Taylor, Garden City, N. Y.
Application November 18, 1932
Serial No. 643,131
2 Claims. (Cl. 299—107)



2. A bath spray comprising a perforated spray head and a handle for said head adapted to be connected by means of a flexible hose to a source of water supply and through which water flows to said head, said handle being made of material which readily conducts heat whereby said handle acts as a gauge for the temperature of the water.

1,948,808
HYDROGENATING GAS GENERATING APPARATUS
Milon J. Trumble, Alhambra, and William L. Seeley, Los Angeles, Calif., assignors to Processco, Limited, San Francisco, Calif., a corporation of Nevada
Application December 13, 1930
Serial No. 502,144
5 Claims. (Cl. 48—75)



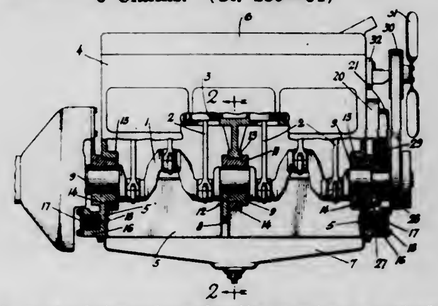
5. Gas generating apparatus comprising a reaction chamber adapted to hold oil sludge, a feeder for carbonaceous oil sludge at the upper part of the chamber comprising a revolvable pocket wheel delivering successive pockets-ful of sludge to the chamber, a steam jet directed into the pockets as they come around arranged to aid the sludge in falling from the pockets, and means directing superheated steam into the sludge at the bottom of the chamber.

1,948,809
HYDROGENATION AND DEPHLEGMATION APPARATUS
Milon J. Trumble, Alhambra, and William L. Seeley, Los Angeles, Calif., assignors to Processco, Limited, San Francisco, Calif., a corporation of Nevada
Application December 13, 1930
Serial No. 502,145
7 Claims. (Cl. 196—139)



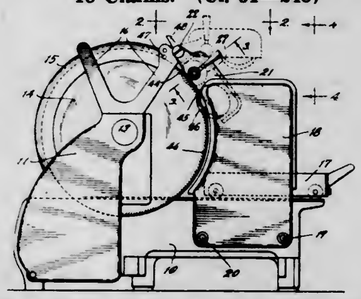
1. Petroleum hydrogenating and dephlegmating apparatus comprising an elongated upright cylindrical container, means for admitting petroleum vapors into the lower part of the cylinder and passage out of the top of the cylinder, a plurality of spaced shelves across said cylinder each with an opening for upward passage of vapors, a heating coil under each shelf, screens extending across the cylinder spaced intermediate said shelves, inverted vapor-retaining cups at each screen positioned over the opening in a shelf, and means for separately controlling the temperature of each heating coil.

1,948,810
METHOD OF ATTACHING CYLINDER BLOCKS TO CRANK CASES
John M. Tyler, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
Application August 28, 1933. Serial No. 687,121
6 Claims. (Cl. 180—64)



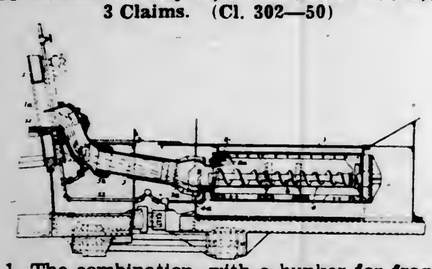
3. In an internal combustion engine, a cylinder block, a crank case, pivotal means joining the cylinder block and crank case for relative rocking movement and resilient buffer means between the cylinder block and crank case for cushioning their relative movement.

1,948,811
SLICING MACHINE KNIFE SHARPENER
Wilhelmus Adrianus van Berkel, Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application September 23, 1932, Serial No. 634,482
In Great Britain October 13, 1931
18 Claims. (Cl. 51—248)



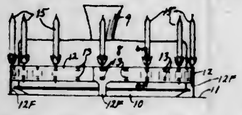
1. In a slicing machine, the combination with a slicing knife, of a gauge plate, a carriage movable past said knife to carry the substance into engagement with the knife for slicing purposes, and a sharpener associated with said knife adapted to be moved into and out of sharpening association with said knife, said sharpener while in sharpening association with said knife being in operative position between the edge of said knife and said gauge plate whereby said gauge plate can be moved into engagement with said sharpener to form a rigid backing therefor during the sharpening operation to prevent movement of said sharpener away from said knife.

1,948,812
LOCOMOTIVE STOKER
David T. Williams, Larchmont, N. Y.
Application February 16, 1932. Serial No. 593,213
3 Claims. (Cl. 302—50)



1. The combination, with a bunker for fragile material existing largely in lumps, said bunker having a bottom discharge opening, of a conduit having a trough-like section under said opening and a tubular section alined with and into which the first section discharges, said trough-like section being upwardly open substantially to the tubular section, means to advance to the tubular section the material falling into the trough-like section from the bunker including a revoluble screw extending lengthwise and having its fluted portion substantially wholly within the latter section, and fluid jet means arranged to discharge forwardly into the conduit forward of the fluted portion of the screw section.

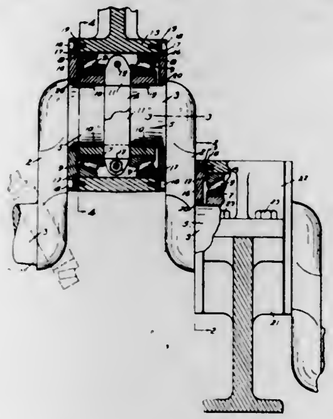
1,948,813
DECORATION AND LIGHT HOLDER
Esther E. Flyberg, Halstad, Minn.
Application July 5, 1932. Serial No. 620,830
1 Claim. (Cl. 248—30)



A portable decoration holder and illumination device comprising a sectional encircling device of like sheet metal sections, each arranged upright and in arcuate form horizontally, means for removably connecting adjacent end parts of the sections, means in each section for removably retaining a predetermined number of decoration holders to be exposed above the upper edge of the section, said decoration holding means and end connecting means at one end of each section being identical and comprising a series of vertically spaced pairs of eyelets, each pair to retain a pin or the like, one end of each section formed with a pair of vertically spaced ears each with an opening, both ears to straddle simultaneously the end pair of eyelets of the adjoining section when the end parts are overlapped, each section formed further with a single integral and downwardly directed support member to support the section in spaced parallel relation above a supporting surface.

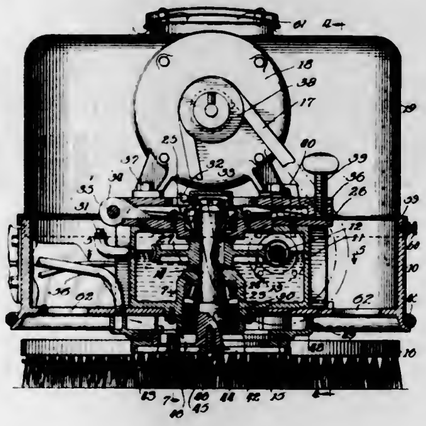
1,948,814
CRANK MECHANISM
Jesse G. Gibson, Bradford, Pa., assignor of fifty-one per cent to Bradford Supply Company, Bradford, Pa., a corporation of Pennsylvania
Application October 14, 1932. Serial No. 637,769
11 Claims. (Cl. 308—179)

1. In a crank mechanism, the combination of a crank shaft having crank arms connected by a bearing shaft; a roller bearing comprising two pairs of roller bearing rings with interposed rollers, the inner bearing rings being larger than the bearing shaft; and spacer means between the



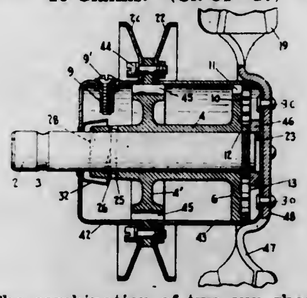
inner rings and the bearing shaft and insertable into position within the rings with endwise displacement within the width of the space between the arms.

1,948,815
ROTARY FLOOR TREATING MACHINE
Edward B. Gruendel, Chicago, Ill.
Application December 7, 1931. Serial No. 579,407
3 Claims. (Cl. 15—50)



1. A rotary machine comprising a frame, a shaft vertically journaled therein, a brush mounting ring on the lower end of the shaft, an annular brush carried thereby and means for securing the brush on the mounting ring comprising a clamping bar disposed diametrically of the mounting ring and detachably secured thereto and studs depending from said ring and engageable with said bar, the ends of the bar engaging the brush to hold it against the clamping ring, means for drivingly connecting the ring and brush, and soap feed passage means discharging soap to the central region of the brush from above the brush and radially within the ends of said bar but outside of said shaft.

1,948,816
FAN BEARING
Charles Hollerith, Jackson, Mich., assignor to Automotive Fan & Bearing Co., a corporation of Michigan
Application June 20, 1930. Serial No. 462,447
10 Claims. (Cl. 64—17)

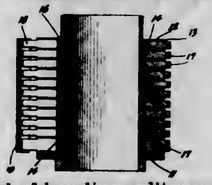


10. The combination of two cup-shaped members, a central bearing member having a flange means for attaching the open ends of said cup-shaped members on opposite sides of said flange to form a lubricant chamber, two of said members having oppositely slanting flanges to form a belt groove therebetween when assembled with the other member.

1,948,817
METHOD OF FRACTIONING PARTIAL OXIDATION PRODUCTS
Joseph Hidy James, Pittsburgh, Pa., assignor to Clarence P. Byrnes, trustee, Sewickley, Pa.
Application November 8, 1928. Serial No. 318,077
6 Claims. (Cl. 260—116)

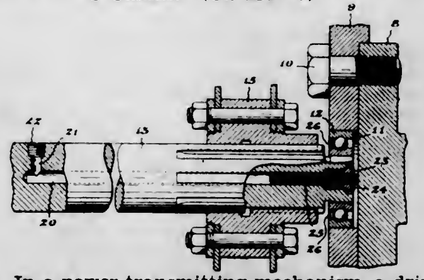
1. In the partial oxidation of hydrocarbons, the steps consisting of feeding a mixture of finely divided hydrocarbon and an oxygen-containing gas through a hot reaction zone, chemically tying oxygen into the hydrocarbon and thereafter passing the exit stream in contact with a series of separate oil layers containing oxidation products, maintaining the oil layers at different temperatures, and condensing bodies of different average molecular weights in said different layers.

1,948,818
METHOD AND MEANS FOR MAKING AIR COOLED CYLINDERS
Charles F. Kettering, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
Application September 15, 1930
Serial No. 482,005
5 Claims. (Cl. 113—99)



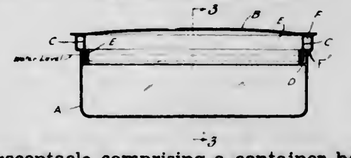
1. A method of bonding split annular heat dissipating elements to a cylinder, each element having a heat dissipating flange and a base flange at an angle thereto, which consists of applying said elements to a cylinder with brazing material and flux interposed, clamping each element to the cylinder independently of the others, then heating the assembly to a temperature sufficient to fuse the brazing material.

1,948,819
LUBRICATING MEANS
Grayson T. Kinney, Cleveland, Ohio, assignor to The Cleveland Tractor Company, Cleveland, Ohio
Application August 6, 1931. Serial No. 555,553
3 Claims. (Cl. 184—6)



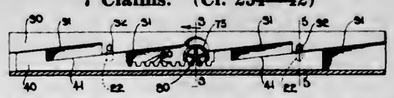
1. In a power transmitting mechanism, a driving shaft and a propelled shaft, a bearing carried by the driving shaft, and supporting the propelled shaft, connecting and disconnecting means between the driving and propelled shaft, a lubricant reservoir contained axially within the propelled shaft wicking and centrifugal means for conveying lubricant in restricted quantities from the lubricant reservoir to the bearing and lubricant retaining means on the bearing.

1,948,820
WATER-SEALED RECEPTACLE
Charles Henry Lasker, Joliet, Ill.
Application June 3, 1931. Serial No. 541,961
1 Claim. (Cl. 220—45)



A receptacle comprising a container having a marginal channel formed in its walls contiguous to the open top of the container, said channel opening toward the inside of the container and an L-shaped flange projecting inwardly from the container walls to form a trough immediately below said channel and adapted for communication therewith, and a cover for the container having a depending flange arranged to extend through the open top of the container and into said trough.

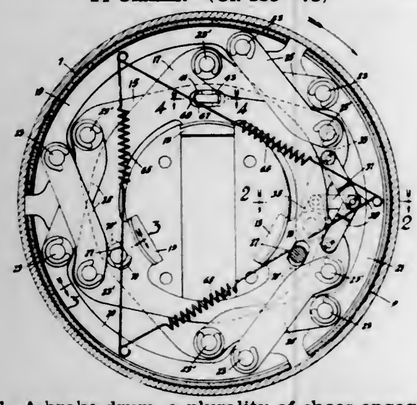
1,948,821
PRINTER'S QUOIN
James Edgar Lee and Freeman Barney, Grand Haven, Mich., assignors to The Challenge Machinery Company, Grand Haven, Mich., a corporation of Michigan
Application July 20, 1932. Serial No. 623,586
7 Claims. (Cl. 254—42)



1. A quoin comprising, a channel member, a wedge member fitting between the flanges of said channel member, said wedge having wedging surfaces thereon, a second wedge member having wedging surfaces engaging the surfaces of the first mentioned wedge member and located between said first mentioned wedge member and

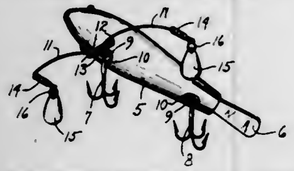
the channel member, means including a key for forcing said first mentioned wedge member away from the said channel member and guiding means for said key member, said guiding means being located in but extending unsymmetrically with respect to the opposite flanges of said channel member for the purpose described.

1,948,822
MULTIPLE SHOE BRAKE
Carl A. Lindblom, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
Application July 11, 1932. Serial No. 621,804
14 Claims. (Cl. 188—78)



1. A brake drum, a plurality of shoes engaging said drum, a pair of members rotatable about the axis of the drum, link means connecting one of said members with one end of each of said shoes, and other link means connecting the other of said members with the other ends of said shoes.

1,948,823
FISH LURE
William Lissy, Spokane, Wash.
Application May 18, 1931. Serial No. 538,164
1 Claim. (Cl. 43—46)



A fish lure comprising a body, resilient arms fixed to the forward portion of the body and spoons carried by the resilient arms said body having two cluster fish hook members each comprising a plurality of fish hooks joined together, one of said cluster members being pivotally suspended from the forward under portion of the body, and the other cluster member being pivotally suspended from the rear under portion of the body, and the spoons being disposed between the cluster hook members on each side of the body whereby they serve to lure fish to either or both of the cluster hook members.

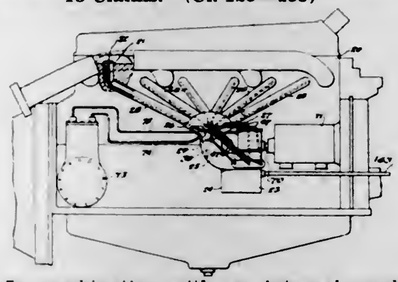
1,948,824
NOZZLE
Martin O'Connor, Brooklyn, N. Y.
Application March 28, 1931. Serial No. 525,949
2 Claims. (Cl. 299—143)

2. A fluid nozzle comprising a casing having an aperture therein, a valve member engaging said aperture, means for determining the minimum opening of said valve member comprising depressions formed in said casing around said aperture to provide grooves for the passage of



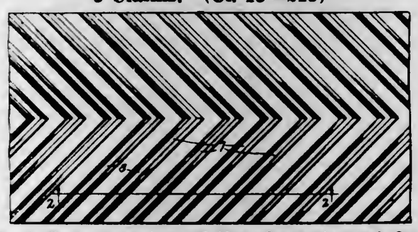
fluid when said valve member is seated against said aperture, said grooves being arranged to cause the fluid to meet at a point in advance of the nozzle and to become broken into a fine mist.

1,948,825
CARBURETING APPARATUS
Lester E. Perrine, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
Application March 22, 1928. Serial No. 263,872
18 Claims. (Cl. 123—138)



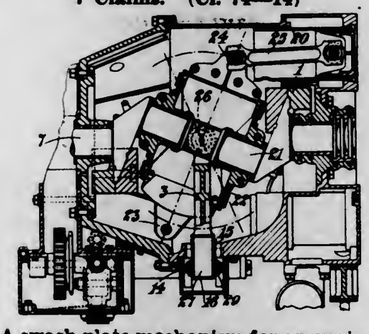
1. In combination with an internal combustion engine having a plurality of cylinders, means to supply fuel to the cylinders including a receptacle adapted to receive a supply of fuel, means for subjecting the fuel in said receptacle to fluid pressure to inject it into one of the cylinders, means whereby the fluid pressure to inject the fuel into the cylinder is obtained from one of the cylinders on its compression stroke whereby a portion of the charge from the last mentioned cylinder is discharged therefrom, and means whereby an additional supply of fuel may be supplied to the last mentioned cylinder to compensate for that discharged therefrom.

1,948,826
FLOOR MAT OR FLOOR COVERING
Christen J. Peterson, Chicago, Ill.
Application April 25, 1932. Serial No. 607,346
3 Claims. (Cl. 15—215)



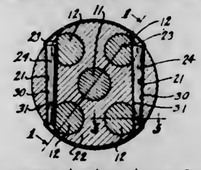
1. A floor covering of the character set forth, comprising a sheet formed of resilient material with a plurality of substantially parallel, upwardly projecting ridges defining channels therebetween each of said ridges having marginal ribs of substantially triangular cross section along the top thereof with their outer sides substantially normal to the sheet and which are adapted to bend outwardly when pressed down, whereby the upper edges of the adjacent ribs of adjacent ridges tend to approach each other and to pinch off or remove any substance adhering to the sole of a shoe when pressed against the same.

1,948,827
SWASH PLATE MECHANISM FOR ENGINES
Charles Benjamin Redrup, Bristol, England, assignor to The Bristol Tramways & Carriage Company Limited, Bristol, England, a British company
Application March 17, 1933, Serial No. 661,398
In Great Britain March 18, 1932
7 Claims. (Cl. 74—14)



1. A swash plate mechanism for an engine having pistons, a crank shaft with an inclined crank pin, a swash plate rotatably mounted on the crank pin, actuating connections between the pistons and the swash plate, and means for moving the swash plate when the engine is in operation, which means causes each of the actuating connections between the pistons and the swash plate to follow substantially similar paths.

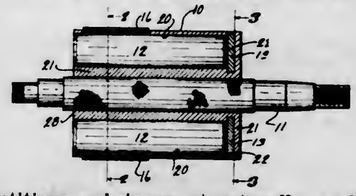
1,948,828
MAGNETO
Curt F. Reis, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application August 29, 1932. Serial No. 630,875
4 Claims. (Cl. 171—252)



1. A rotary magnet structure for magnetos of the rotating-field type, including a shaft of ferrous metal, a plurality of pole pieces disposed parallel to, and spaced about the shaft, an element bridging an end portion of a plurality of said pole pieces, pole shoes, a body of non-ferrous metal cast about the shaft between its ends and embracing the bridging element and said pole shoes, and a locking member engaging the opposite end portions of certain of the pole pieces, at points within the body of cast metal.

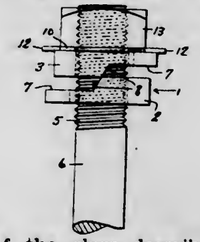
1,948,829
ROTOR FOR MAGNETOS
Curt F. Reis, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application August 29, 1932. Serial No. 630,876
4 Claims. (Cl. 171—252)

1. In an assembly of permanent magnets in a magneto of the rotating field type, a shaft, a pole piece holder of non-magnetic metal cast about said shaft, elongate pole pieces arranged in spaced parallel relation to said shaft, a member cast into said holder, and bridgingly engaging a plurality of the pole pieces, and a metallic
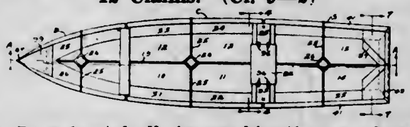


cementitious substance structurally and magnetically cementing said pole pieces to said bridging member.

1,948,830
LOCKED NUT
Arthur James Romeis and John Otis Gangstad, Chippewa Falls, Wis.
Application July 12, 1932. Serial No. 622,134
1 Claim. (Cl. 151—2)



A device of the class described comprising a pair of locking elements, each having an oblong opening passing therethrough and each element having a group of radial teeth on an end wall of its opening, said teeth extending axially, the abutting faces of said elements each being formed with a high part and a low part, with an inclined shoulder connecting the parts together, said shoulders sloping in the same direction and forming coacting cam surfaces, said shoulders being diametrically arranged and extending at rightangles to the major diameter of the opening, whereby when the two elements are forced together on a bolt, the shoulders will produce lateral movement of the two elements in opposite directions to cause the teeth to enter portions of the threads of the bolt, a nut threaded on the bolt for forcing the elements together and against a work piece.

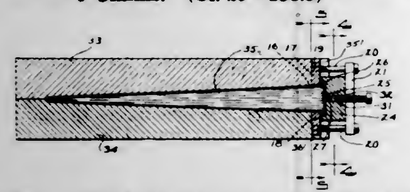
1,948,831
BOAT AND CARRIER
Anton J. Sobieralski, Detroit, Mich.
Application February 25, 1931. Serial No. 518,073
12 Claims. (Cl. 9—2)



1. In a boat hull, in combination, a plurality of sheet metal independently water tight sections, and cooperating disengageable reversely bent flanges and sockets formed on the cooperating ends of said sections, the plane of said flanges and sockets being substantially perpendicular to the longitudinal center line of said boat whereby to permit operative engagement and disengagement of said sections relative to the other thereof in a plane perpendicular to the length of said hull and in a direction perpendicular to the

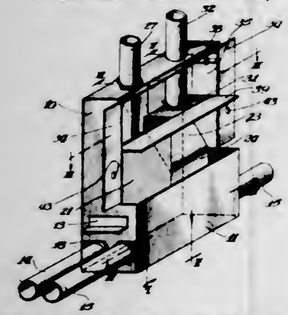
bottom thereof, said flanges and said sockets co-operating to provide the sole means for holding said sections in co-operative relationship.

1,948,832
METHOD OF MAKING PROPELLER BLADES
John Squires, Hagerstown, Md.
Application January 19, 1931. Serial No. 509,672
9 Claims. (Cl. 29—156.8)



1. The method of forming a propeller blade from a tubular blank having an open end which consists in submerging the blank in a bath composed of a molten composition having a predetermined fusion temperature with the open end of the blank uncovered so as to fill the same with the molten composition, capping the open end of the blank, while the interior of the latter is filled with said molten compositon and compressing the capped blank to blade shape between forming dies while permitting controlled escapement of the composition from the interior of the blank.

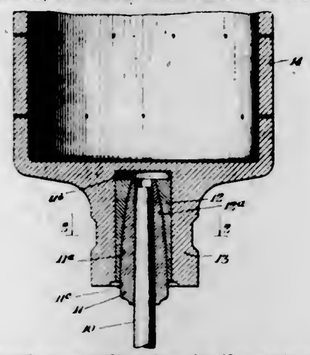
1,948,833
JUNCTION BOX
Wingate S. Thomas, Chicago, Ill., assignor to Knapp Bros. Mfg. Co., Chicago, Ill., a corporation of Illinois
Application May 4, 1929. Serial No. 360,569
3 Claims. (Cl. 247—15)



1. In a device of the character described, a box-like structure for disposition in a wall, the lower portion of said structure extending outwardly beyond the upper portion, a partition dividing said lower portion interiorly into separate compartments, each compartment being for the accommodation of a different conductor, said structure having a separate passageway leading from each of said lower compartments upwardly through the top of the box-like structure.

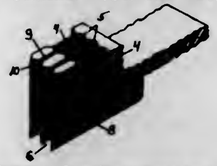
1,948,834
DRIVE MECHANISM FOR CENTRIFUGAL BUCKETS
Walter C. Volk, Rome, N. Y., assignor to Skenandoa Rayon Corporation, Utica, N. Y., a corporation of Delaware
Application October 6, 1931. Serial No. 567,209
9 Claims. (Cl. 118—40)

1. A semi-positive drive assembly for a centrifugal bucket, comprising a drive shaft; a male drive member on said shaft having the form of a hollow truncated circular spindle merging, at its base, into a substantially cylindrical surface and with the center of curvature of the truncated spindle surface lying in a plane below and parallel to the plane of the base of said truncated portion; a female drive member having its



interior surface conforming to the exterior surface of said male member and with the same radius and center of curvature as said male member; and a centrifugal bucket carried by said female drive member.

1,948,835
TUFT FRAME FOR LOOMS
Charles C. Alvord, Worcester, Mass., assignor to Worcester Loom Works, Worcester, Mass.
Application July 23, 1926. Serial No. 124,388
11 Claims. (Cl. 139—10)

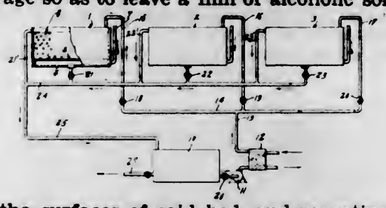


1. A tuft frame having means rotatably to support a spool having wound thereupon a series of yarns and having a series of guideways forming passages to receive the yarns provided with rigid walls forming entrances for grippers spaced uniformly with said yarn passages, each yarn passage being provided with a broadside threading entrance, and said frame at one side of each broadside threading entrance having a projection extending outwardly beyond the entrance sufficiently to engage the yarns drawn tangentially from the spool before they reach the entrances in the threading operation, thus insuring the several yarns being threaded into the proper entrances.

1,948,836
PROCESS OF MAKING VINEGAR
Charles S. Ash, San Francisco, Calif., assignor to California Packing Corporation, San Francisco, Calif., a corporation of New York
Application November 19, 1932
Serial No. 643,389
5 Claims. (Cl. 99—17)

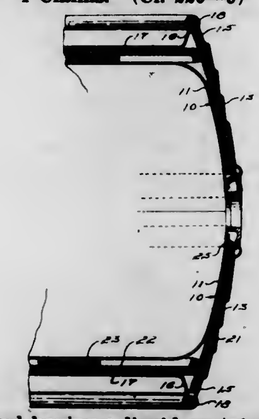
1. A method of converting alcoholic solutions into acetic acid solutions by a plurality of intermittent fermenting steps, which comprises forming a porous bed of substantially insoluble material, inoculating the bed with vinegar ferments, forming a film of alcoholic solution upon the surfaces of said bed, fermenting said alcoholic solution retained on the surfaces of said bed to increase the acetic acid content thereof, passing an excess of alcoholic solution from storage through

said bed to remove previously fermented solution, draining alcoholic solution from said bed into storage so as to leave a film of alcoholic solution



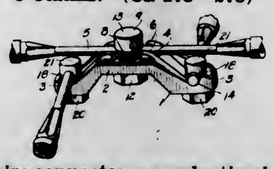
on the surfaces of said bed, and repeating said fermenting, washing and draining operations until the alcohol content of the solution passing to storage drops to a desired minimum.

1,948,837
BARREL
Clarence W. Avery, Detroit, Mich., assignor to The Murray Corporation of America, a corporation of Delaware
Application May 31, 1933. Serial No. 673,762
4 Claims. (Cl. 220—9)



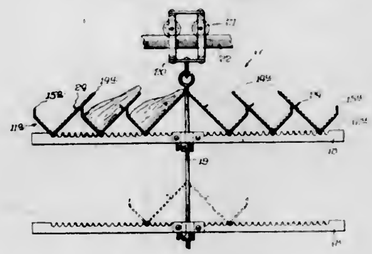
1. A barrel having a liquid containing portion made of like pot shaped elements, a reinforcing portion of greater area for encompassing said first portion to form a space therebetween, and insulating material disposed in the space between the two portions, and asbestos material disposed adjacent to the insulating material at points to be welded.

1,948,838
CONNECTER
Thomas B. Bash, Kansas City, Mo.
Application December 24, 1927
Serial No. 242,364
5 Claims. (Cl. 173—273)



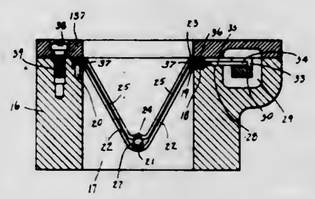
1. In a wire connecter, a conducting body member having formed, on one face thereof, a plurality of angularly related wire seats, relatively vertically and laterally spaced, with their axes out of intersecting relation to other portions of the connecter, the seats being arranged to engage separate wires, which may extend across and beyond the body member, and independently operable holding means for securing the wires to said seats.

1,948,839
MEAT SHAPING AND SUPPORTING DEVICE
Alonzo N. Benn, Chicago, Ill.
Application October 3, 1931. Serial No. 566,658
4 Claims. (Cl. 99—2)



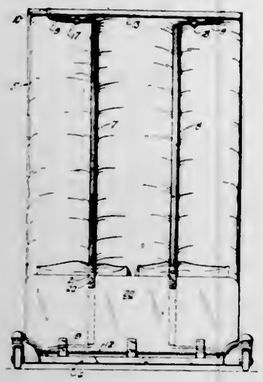
1. A holder of the class described comprising, in combination, an open-mesh basket-like member having a bottom portion, end walls and a side wall extending above said end walls, a plurality of hollow separators formed of screen-like material and of a height substantially equal to that of said end walls and movably mounted on said bottom portion between the end walls to provide a plurality of spaced compartments for the reception of pieces of meat, respectively, and a spacer operatively related to the holder.

1,948,840
GOVERNOR DEVICE FOR ENGINES
Farrell D. Biddle, Anderson, Ind., assignor to Pierce Governor Company, Anderson, Ind., a corporation
Application August 22, 1931. Serial No. 558,823
2 Claims. (Cl. 251—84)



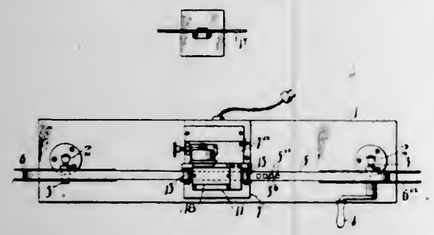
1. In an engine having a fuel supply passage, a valve body adapted to be mounted adjacent thereto and having an intake passage therein of a cross-sectional area at least equal to the supply passage, said valve body including a main portion and a complementary cover portion, said body including a chamber offset from the intake passage through the body and another passage laterally directed with reference to said chamber and said intake passage and open opposite ends to the same, a conical valve seat and a cooperating conical valve positioned within the intake passage and having outwardly-directed flanges seatable in a groove in the main body portion communicating with the intake passage and closed by the cover, and an arm connected to the valve flange and extending into the offset chamber for oscillation in the communicating lateral passage, and an actuating rod extending into said offset chamber and operatively associated with said arm for actuation thereof.

1,948,841
BEDDING CLAMP
Gordon F. Cane, San Francisco, Calif., assignor, by mesne assignments, to Thorn Thompson, San Francisco, Calif.
Application July 29, 1929, Serial No. 381,749
Renewed July 17, 1933
1 Claim. (Cl. 5—320)



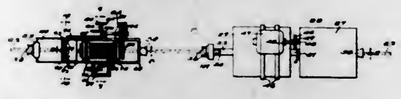
In a bed, a bed frame, a head board foldably mounted on the frame, a bedding clamping member arranged to be moved from inoperative position lying lengthwise of and on the side of the bed into position lying upon and clamping the bedding in place and means for detachably securing the head board when in folded position to said member.

1,948,842
FILM EDITOR
John V. Curran, Toronto, Ontario, Canada
Application October 1, 1932. Serial No. 635,729
2 Claims. (Cl. 88—24)



1. A film editor comprising a horizontally disposed table having an aperture therein; means for passing translucent pictures on a strip of film along the table beneath said aperture; a source of light beneath the aperture for illuminating the pictures as they are brought into register with the aperture; a projecting lens having its optical axis disposed at right angles to the axis of the aperture and offset relative thereto longitudinally of the film strip; a prism positioned relative to the aperture for reflecting the image forming rays from each of the pictures a second prism positioned relative to the projecting lens and the first mentioned prism for reflecting the image rays from the latter into the projecting lens; and a vertical screen positioned at the rear of the table and in front of the projecting lens so that the projected images will follow one another vertically on the screen behind the horizontal film.

1,948,843
LACQUERING MACHINE
Charles D. Dallas, Chicago, Ill., assignor to Revere Copper & Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application August 26, 1931. Serial No. 559,464
10 Claims. (Cl. 91—55)



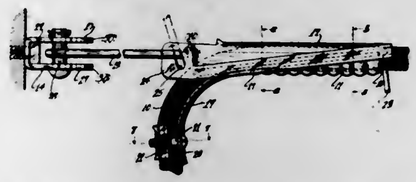
1. In a lacquering device, the combination of means for advancing an article through the device with means for applying lacquer to the surface of the advancing article, and means for circulating heated air about the freshly lacquered surface of the advancing article to accelerate the drying of the lacquer, said lacquer applying means comprising a tank containing lacquer, a cylindrical brush mounted in the tank with its axis positioned above and parallel to the surface of the lacquer, said brush having inwardly projecting radially extending bristles terminating short of intersection to provide a longitudinal aperture through which the article to be lacquered is advanced, and means for revolving said brush about its axis to distribute lacquer uniformly over the surface of the article.

1,948,844
ELASTIC BRAID
Robert T. Dawes, Hudson, Mass.
Application January 7, 1932. Serial No. 585,219
14 Claims. (Cl. 24—143)



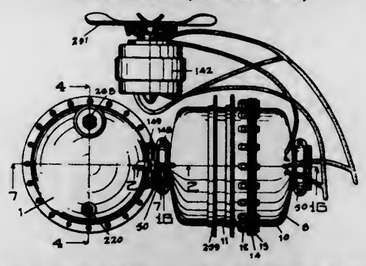
1. A lacing or the like article of the character described comprising a coreless tubular braided structure each of whose constituent strands is individually elastic.

1,948,845
CABLE CLAMP
Elon Jay De Right, Kansas City, Mo.
Application September 24, 1932
Serial No. 634,697
4 Claims. (Cl. 24—126)



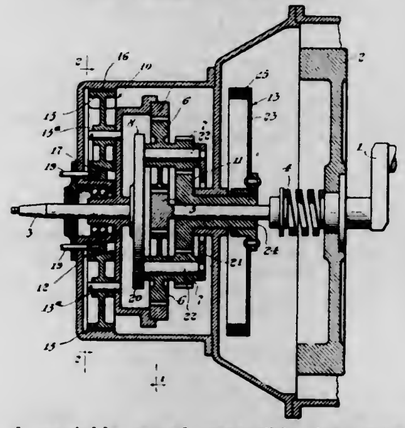
1. A strain clamp for cables including paired trough-shaped elements, slidably connected to each other, and formed for wedgingly engaging a cable therebetween, a strain anchorage connection at one end of one element, and a laterally projecting curved leg at the adjacent end of the other element, adapted to be engaged throughout its length by a bent portion of the cable, and means at the outer extremity of said leg for securing the cable thereto.

1,948,846
ELECTRIC REFRIGERANT COMPRESSOR
Philip W. Des Roches, Detroit, Mich.
Application July 27, 1929. Serial No. 381,650
12 Claims. (Cl. 230—58)



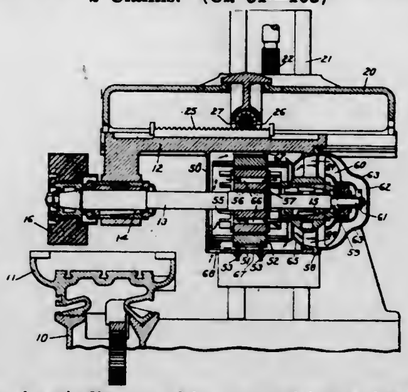
1. In a compression refrigerating system, a compressor, a thermic insulating member forming a chamber and a passageway for conducting the gas refrigerant to the intake port of the compressor to prevent the heat of the compressor from heating the gas in advance of its compression, the said chamber operating to permit expansion of the gas and the separation of liquids contained in the refrigerant circuit prior to the induction of the gas into the compressor.

1,948,847
VARIABLE SPEED TRANSMISSION
Adiel Y. Dodge, South Bend, Ind.
Application January 24, 1931, Serial No. 510,920
Renewed January 16, 1933
10 Claims. (Cl. 74—34)



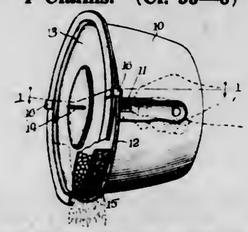
1. A variable speed reversible transmission comprising a driving sun gear, an eccentrically weighted planet gear meshing therewith, a gear carrier for said planet gear, a ring gear meshing with said planet gear, a one-way reactance device preventing rotation of the ring gear in one direction and permitting it in the other, whereby the gear carrier will be positively driven when the sun gear is rotated and whereby reverse impulses of the weighted planet gear will be rectified to cause forward rotation of the ring gear, a second planet gear coaxial and rotatable with said first planet gear and of less pitch diameter than said first planet gear, a second sun gear meshing with said second planet gear, means for rendering said reactance device incapable of preventing reverse rotation, and means for holding said second sun gear against rotation to effect reverse rotation of the gear carrier when the reactance device is incapacitated.

1,948,848
GRINDING MACHINE HAVING A MOTOR DRIVEN WHEEL SPINDLE
Howard W. Dunbar, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application May 18, 1932. Serial No. 612,003
2 Claims. (Cl. 51—166)



1. A grinding machine comprising a base, a wheel slide, a grinding wheel spindle rotatably supported on said slide, an adjustable bearing at one end of the slide to support the end of the spindle adjacent to the grinding wheel, an enlarged housing integral with the slide, a cylindrical bore therein having an open end adjacent to the other end of the spindle, a motor stator mounted within said bore, a motor armature within the stator which is fixedly mounted on the spindle to rotate the same, adjustable radial and end thrust bearings for the other end of said spindle on the opposite end of said armature from the first bearing, and a removable end cap supporting said latter bearings and closing the open end of said cylindrical bore to permit access to the motor parts.

1,948,849
SAUCEPAN LID
Marshall N. Dunlap, Chicago, Ill., assignor of one-half to Arthur Molden, Sioux City, Iowa
Application April 15, 1933. Serial No. 666,241
4 Claims. (Cl. 53—8)

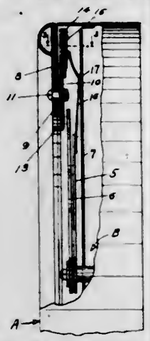


4. A removable sauce pan lid having on its under side a depending screen adapted to span a portion of the joint between the lid and the top edge of the pan, and means carried by said lid serving, through engagement with the outer side of the pan and independently of the screen to hold the lid against sliding off the pan when the latter is tilted to pouring position.

1,948,850
ALARM SYSTEM
John H. Ehrle, Minneapolis, Minn.
Application March 16, 1933. Serial No. 661,039
2 Claims. (Cl. 161—3)

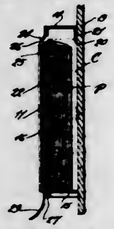
1. An apparatus of the character described comprising an annular frame, a clock in the

frame, said frame having an insulation ring adjacent the periphery of the clock dial, a contact member adjustably secured to the ring and spaced forwardly with respect to the clock dial face, a brush secured to one of the clock hands for movement between the dial and contact member and



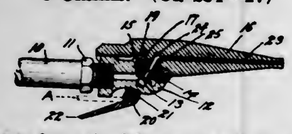
for circuit closing engagement with the latter during such movement, said brush having a bearing point in constant contact with the dial face so as to relieve the brush carrying hand of strain when circuit closing contacts are made, and an alarm device in circuit with said brush and contact member.

1,948,851
MEMORANDUM DEVICE
Richard T. Fortune, Watsonville, Calif.
Application December 15, 1932
Serial No. 647,453
3 Claims. (Cl. 281—13)
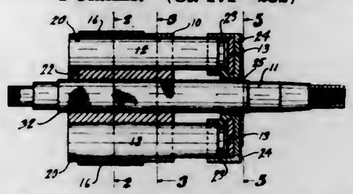


1. In a memorandum device, a container structure of thin gage material and having a slotted opening in the front wall thereof for the passage of a writing strip and guide flanges at the forward lengthwise corner edges of the container defining guide grooves the entire length of the container for the opposite side edges of the writing strip.

1,948,852
NOZZLE ATTACHMENT FOR AIR HOSES
John J. Gilfoy, Denver, Colo.
Application August 19, 1932. Serial No. 629,472
5 Claims. (Cl. 284—17)



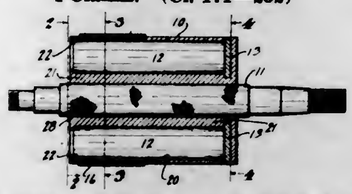
3. Means for attaching a nozzle to an air hose chuck and operating the valve in the latter comprising: a circular flat face on one side of said nozzle forming an acuate angle to the axis thereof for contacting the face of said chuck; a pivot pin passing through said nozzle rearwardly of the axis of said face; a link depending from each extremity of said pivot pin; a second pin joining the extremities of said links; a cam mounted on said second pin; and a handle member connected with said cam so as to cause the latter to engage said chuck to draw the rearward portion of said face against said chuck.

1,948,853
MAGNETO CONSTRUCTION
William C. Heath, Milwaukee, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application August 29, 1932. Serial No. 630,873
4 Claims. (Cl. 171—252)



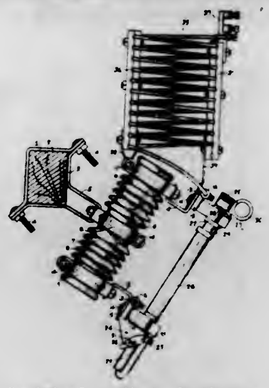
1. A magnet structure for magnetos of the rotating-field type, including a shaft, pole shoes spaced from said shaft, a body of non-magnetic metal cast about a portion of the shaft and the pole shoes, the pole shoes and body of cast metal having preformed longitudinal openings, arranged to receive a plurality of pole pieces; an assembly of parallel pole pieces including an element bridging a plurality of the pole pieces near one end thereof, a second body of non-magnetic metal cast about the bridging element and adjacent ends of the pole pieces engaged thereby; the pole pieces and the first named body of cast metal having preformed openings, and locking pins extending through the openings in the first named body of cast metal and said pole pieces for securing the assembly thereof in predetermined detachable relation to said first named body of cast metal and the pole shoes.

1,948,854
MAGNETO ELECTRIC MACHINE
William C. Heath, Milwaukee, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application August 29, 1932. Serial No. 630,874
4 Claims. (Cl. 171—252)



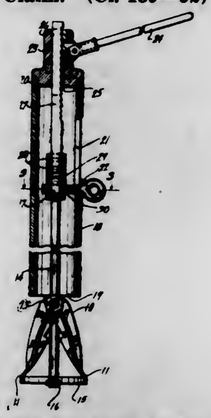
1. A magnet structure for magnetos of the rotating-field type, including a shaft, pole shoes, pole-piece-bridging elements, and a body of non-magnetic metal die-cast about said shaft and embracing the pole shoes and pole-piece-bridging elements, said body having preformed pole-piece openings of a leng'h in excess of the length of the pole pieces to be received thereby, the cast metal in excess of the length of the pole pieces being deformed into engagement with the pole pieces whereby to secure the same in the openings therefor, and to maintain effectively, the magnetic engagement of the pole-pieces with the bridging elements.

1,948,855
PROTECTIVE APPARATUS FOR HIGH TENSION TRANSMISSION LINES
Walter A. Heinrich, St. Louis, Mo.
Application October 10, 1930. Serial No. 487,889
12 Claims. (Cl. 200—120)



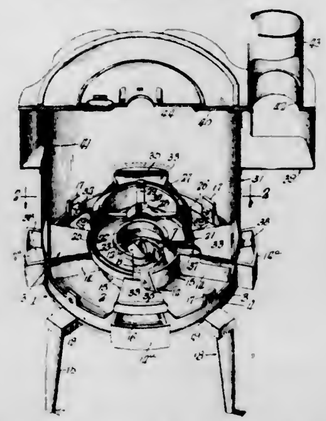
1. An electrical unit including a unitary insulator member, a switch and a choke coil, means for supporting said switch and coil entirely from said insulator member, and including relatively spaced bracket portions extending between said coil and insulator member.

1,948,856
TOOL FOR SETTING EARTH ANCHORS
Walter A. Heinrich, St. Louis, Mo.
Application May 5, 1932. Serial No. 609,384
1 Claim. (Cl. 189—92)



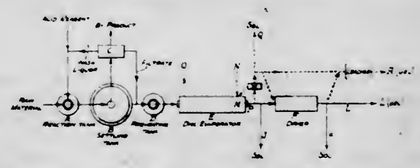
A tool for positioning earth anchors of the type embodying pivotally connected, outwardly movable earth-engaging blades and an anchor rod extending upwardly from the blades, comprising a tubular compression member having a longitudinal wall slot, said member being adapted to be removably positioned about the anchor rod with its lower end engaging the connected end portions of said blades, a jack assembly for drawing the anchor rod upwardly to cause expansion of said blades, including a pawl- and lever-actuated draw-bar disposed for endwise movement in said compression tube, a clevis at the lower end of said draw-bar engageable with the upper end of said anchor rod, and a removable clevis pin extending transversely through said wall slot for connecting said draw-bar and anchor rod.

1,948,857
OIL BURNER
Adolph R. Hoeft, Evanston, Ill., assignor to Hoeft & Company, Inc., Chicago, Ill., a corporation of Illinois
Application November 26, 1930
Serial No. 498,259
3 Claims. (Cl. 158—91)



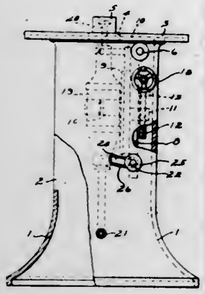
1. In an oil burner, a burner plate, a drum supported thereon, means providing a fuel feed centrally of said plate, a plurality of sets of radially disposed flanges extending from a point adjacent said feed to a point outside the drum, the flanges of one set being connected at their inner ends to those of adjacent sets to provide a chamber about said feed, a burner ring supported upon the inner ends of said sets of flanges in operative relation with respect to said feed and forming a top for said chamber, a cover plate removably engaged upon each set of flanges between said drum and burner ring and coacting with said flanges to form air ducts having inlets outside the drum and discharge ends opening into said chamber about said feed, a fire pot seated upon the burner ring and a baffle member arranged axially above said fuel feed and including radial arms having a supporting engagement upon said fire pot.

1,948,858
LIGNIN DERIVATIVES AND PROCESS OF MAKING SAME
Guy C. Howard, Wausau, Wis.
Continuation of application Serial No. 460,150, June 10, 1930. This application April 11, 1933. Serial No. 665,486
17 Claims. (Cl. 260—158)



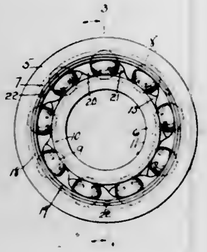
14. The process of making lignin derivatives of the character described which comprises exposing a heated aqueous dispersion containing free lignin-sulphonic acid and substantially free from non-ligneous organic matter to an atmosphere favorable to a substantially complete escape of sulphur dioxide gas from such dispersion.

1,948,859
DIE GRINDER
Ernest R. Jones, Detroit, Mich.
Application September 16, 1933
Serial No. 689,746
4 Claims. (Cl. 51—102)



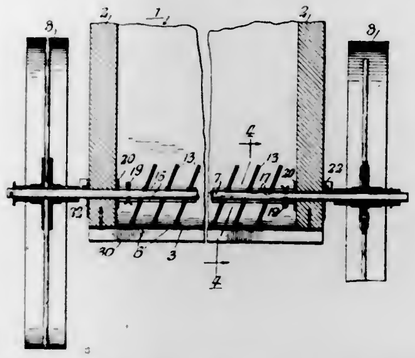
4. In a die grinder, a base having a top provided with a central opening, a frame pivotally mounted at one side of the base, a carriage slidably mounted in the frame, a motor supported on the carriage, means for raising and lowering the carriage, the motor being provided with a shaft extending through the opening of the table top, a grinding wheel of smaller diameter than the opening secured to the shaft and means for turning the carriage on its pivot.

1,948,860
ANTIFRICTION BEARING
Louis Langhaar, Allentown, Pa.
Application March 22, 1930. Serial No. 438,043
9 Claims. (Cl. 308—196)



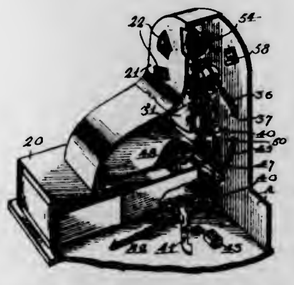
1. A ball bearing comprising an outer race member having two internal ball races formed in a single piece of material, an internal race member having two external ball races formed in a single piece of material, rows of balls disposed between said members and in running contact therewith, a composite self-adjusting device between and in running contact with said rows, said device being introduced through an end orifice of the outer race member, and an independent two-piece separator for the balls of each row respectively, each of said pieces having a separating prong located on the opposite side of a ball from that on the other piece.

1,948,861
FERTILIZER AND LIKE SPREADER
Waldemar L. Lindgren, Waukegan, Ill., assignor to Hoeft & Company, Inc., North Chicago, Ill., a corporation of Illinois
Application October 21, 1932. Serial No. 638,841
8 Claims. (Cl. 221—118)



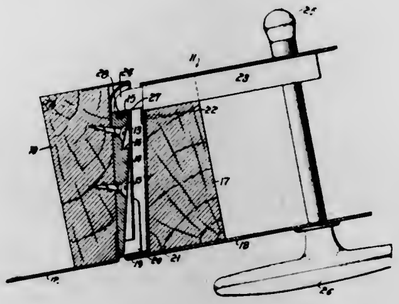
1. A spreader embodying therein a hopper having discharge openings therein, a rotatable shaft in said hopper and a plurality of discs longitudinally spaced on said shaft and arranged at an angle other than a right angle thereto and having peripheral portions formed to sweep back and forth across said openings in the rotation of said shaft, and bars fixed to and extending longitudinally of the shaft and through central portions of the discs to hold them in the angular position on the shaft and to provide the driving connection between the shaft and discs.

1,948,862
CASH AND CHECK COLLECTING RECEPTACLE
Emile Marcoux, Limoilou, Quebec, Canada, assignor of one-half to Theo Lessard, Limoilou, Quebec, Canada
Application October 24, 1932. Serial No. 639,210
4 Claims. (Cl. 194—54)



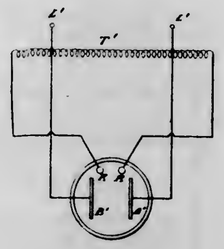
2. A cash and check collecting receptacle comprising a casing, a stop piece thereon, a rotatable check receiving head member mounted in the casing, a drawer slidably disposed in the casing, spring means for operatively rotating the head member, a plurality of check controlled elements pivotally connected with the head member and co-operating with the stop-piece to cause the head member to rotate in step by step movement, and means for releasing the drawer upon operative rotation of the head member.

1,948,863
STRIKE PLATE
Stanley Menton, Kalamazoo, Mich., assignor to Limousine Body Company, Kalamazoo, Mich., a corporation of Michigan
Application March 4, 1932. Serial No. 596,729
8 Claims. (Cl. 292—340)



2. A door catch having a stop face for cooperation with a lock bolt, a channel formed in said face and carrying means for supplying lubricant thereto.

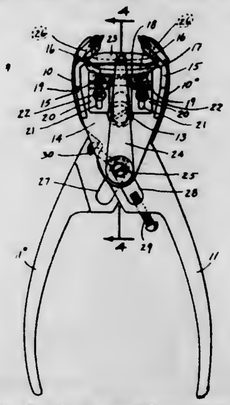
1,948,864
MAINTAINING VOLTAGE BALANCE IN ELECTROLYTIC CONDENSERS
Ralph D. Mershon, New York, N. Y.
Application June 24, 1931. Serial No. 546,547
27 Claims. (Cl. 175—315)



1. In an electrolytic condenser, the combination of filmed main anodes, auxiliary capacity electrically connected with the electrolyte, and a conductive non-short-circuiting connection between the auxiliary capacity and said main anodes.

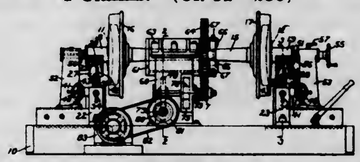
1,948,865
RING CLINCHER
Leon H. Miller, Greencastle, and Francis C. Lane, Bainbridge, Ind.
Application October 3, 1932. Serial No. 635,962
9 Claims. (Cl. 128—332)

5. A portable hand operated ring clincher comprising a pair of clinching jaws, a magazine associated therewith for containing a plurality of rings to be clinched, and means for permitting longitudinal sliding movement between the pivoted portion of said jaws and magazine through the medium of the longitudinal slot and pin whereby said magazine may recede relative to the



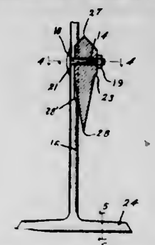
clinching end of said jaws when moved to clinching position.

1,948,866
CAR WHEEL GRINDING MACHINE
Charles H. Norton, Plainville, Conn., and Carl G. Flygare, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application June 7, 1932. Serial No. 615,804
4 Claims. (Cl. 51—236)



1. A car wheel grinding machine comprising a supporting and rotating device for a car wheel assembly, having a pair of car wheels and an axle, including a pair of spaced V-shaped shoes arranged to engage and support the periphery of journals at opposite ends of the car wheel axle, a pair of yoked supports for said shoes, and trunnions arranged transversely on each of the supports and carrying said shoes which are arranged to align the shoes with the car axle journal longitudinally relative to the axis of the axle.

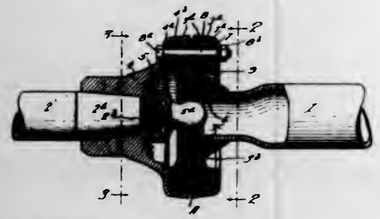
1,948,867
ADJUSTABLE FLASK BAR AND GAGGER COMBINED
Earl F. Oyster, Shaker Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 30, 1932. Serial No. 626,523
10 Claims. (Cl. 22—111)



1. In a molding flask, a bar mounted on said flask, grooves in a face of said bar, a plurality of

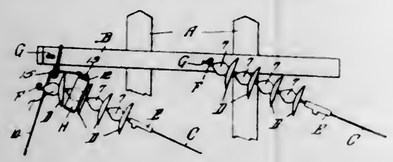
crabs adapted to depend from said bar and having shanks resting in said grooves, said crabs having narrow feet disposed at an angle to said shanks, different crabs having feet of different length, and clamping means on said bar securing said shanks in said grooves.

1,948,868
FLEXIBLE COUPLING
Frederick W. Peters, Cleveland, Ohio
Application November 17, 1930
Serial No. 496,159
7 Claims. (Cl. 64—96)



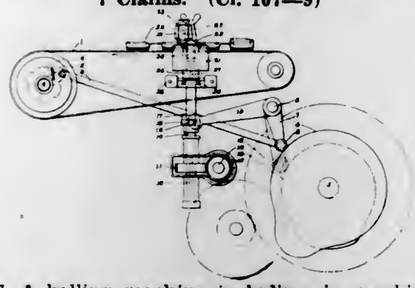
1. A flexible coupling for a driving member and a driven member, the said coupling comprising a continuous ring-like body of deformable resilient material having an outer relatively thick peripheral portion, an intermediate portion of materially less thickness and an inner relatively thick portion secured at its interior to one of said members and projecting outwardly therefrom, the said body having embedded therewithin and bonded thereto a radially extending reinforcing plate of relatively stiff material united by vulcanization with the said body, and means for securing the outer portion of the said body to the other member.

1,948,869
PULL CLAMP
Newt A. Pinson, St. Louis County, Mo.
Application May 23, 1932. Serial No. 613,127
4 Claims. (Cl. 294—113)



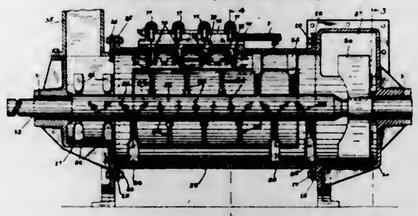
1. In a pull clamp construction, a pair of like hingedly connected hollow clamp members, each having an open end, a suitable filler for each clamp member with one end thereof projecting slightly beyond the edges of the open ends of the clamp members and adapted for engagement with the porcelain section of one of a plurality of insulator units having a metallic body and with the inner faces of the clamp members engaging the insulator unit when the clamp is applied thereto and closed, and means on each clamp member adapted to lie side by side when the clamp is closed and to which one end of a pull cable can be connected for holding the clamp in operative position around the insulator unit while pulling on said clamp by means of the cable to raise the dead end of a power transmission line to such an elevation as to readily permit connection of an end insulator with the cross-bar of a pole.

1,948,870
MOLD ACTUATING MECHANISM
John Edward Pointon and Laurence Seymour Harber, Westwood Works, Peterborough, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich., a corporation of New York
Application August 11, 1932, Serial No. 628,375
In Great Britain August 12, 1931
7 Claims. (Cl. 107—9)



7. A balling machine including, in combination, balling means, means for imparting orbital movement to said balling means, including an adjustable throw crank member, a rotary shaft for rotating said crank member, means for imparting to said shaft timed axial reciprocation during its rotation, means on the shaft in operative engagement with the crank member for adjusting its throw in response to axial reciprocation of said shaft.

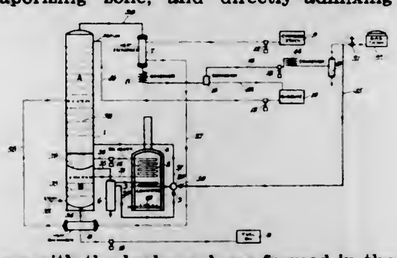
1,948,871
FEED MIXING MACHINE
Richard G. Quehl, Minneapolis, Minn., assignor to The Streng-Scott Mfg. Co., Minneapolis, Minn., a corporation of Minnesota
Application April 7, 1930. Serial No. 442,428
4 Claims. (Cl. 259—9)



1. In a feed mixing machine, a mixing chamber, means for conveying a mass of dry ingredient through said chamber, and means extending into said chamber and in the path of movement of said mass of dry ingredient for introducing a liquid ingredient into the interior of said mass of dry ingredient.

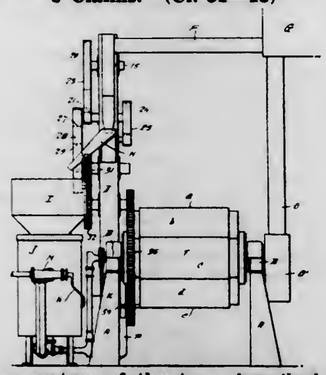
1,948,872
CONVERSION OF HYDROCARBONS INTO LOWER BOILING COMPOUNDS
Malcolm H. Tuttle, New Rochelle, N. Y., assignor to The Gyro Process Company, Detroit, Mich., a corporation of Michigan
Application April 8, 1929. Serial No. 353,474
4 Claims. (Cl. 196—61)

1. In a process in which hydrocarbons in the vapor phase are pyrolytically converted at temperatures between 1000° F. and 1400° F. to form hydrocarbons having lower boiling points, that method of arresting the pyrolytic reaction of conversion to prevent an excessive formation of undesirable hydrocarbons which includes the steps of heating a hydrocarbon oil to vaporizing temperature without substantial pyrolytic decomposition, flashing the heated oil into vapors in a vaporizing zone, and directly admixing the



vapors with the hydrocarbons formed in the pyrolytic conversion zone of the vapor phase conversion process in sufficient quantity to bring the temperature of the resultant mixture to between 700° and 900° F.

1,948,873
SAND BLAST SYSTEM
Sidney C. Vessy, South Euclid, Ohio, assignor to The W. W. Sly Mfg. Company, Cleveland, Ohio, a corporation of Ohio
Application February 21, 1931. Serial No. 517,483
3 Claims. (Cl. 51—13)



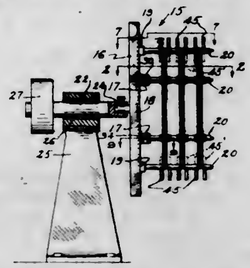
1. In a system of the type described, a sand blast barrel, means for spraying abrasive against objects therein, means for causing used abrasive to discharge from said barrel and means for causing air to flow into said barrel through the abrasive being discharged therefrom.

1,948,874
PROCESS FOR TREATING PAPER
Leon M. Yoerg, Holyoke, Mass., assignor to American Writing Paper Company, Inc., Holyoke, Mass., a corporation of Delaware
Application July 7, 1931. Serial No. 549,151
6 Claims. (Cl. 92—40)



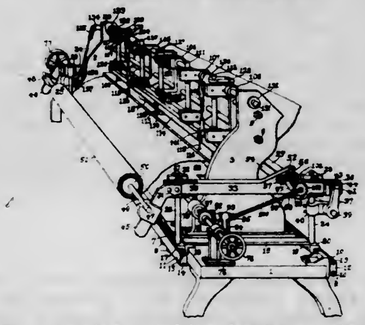
1. In paper making apparatus, means for supporting a continuously moving web of paper, a deflector member arranged at a side of a web on said supports, a pipe adjacent said deflector having nozzles for emitting hardening material, a second set of nozzles arranged adjacent said first named nozzle for directing fluid onto said first named nozzles to blow said material therefrom onto said deflector member.

1,948,875
ELECTRICAL COIL WINDING APPARATUS
Bismark C. Beitling, San Fernando, Calif.
Application March 24, 1933. Serial No. 662,413
6 Claims. (Cl. 140—92.2)



1. In an electrical coil winding apparatus, a base member, a plural number of cross arms in slidable relation to said base member, a plural number of blocks, said blocks being slidable along the face of said base member, posts, certain of said posts being in fixed relation to said blocks, and others of said posts being adjustable along the length of said cross arms, and fingers projecting from said posts, said fingers having an arcuate base adapted to bear against said posts, said posts being slotted to accommodate screws whereby said fingers may be secured in any intermediate position along the length of said posts, said fingers being adapted to confine the turns of the coil formed on said apparatus.

1,948,876
MULTINEEDLE SEWING MACHINE
Gustav A. Boetteher, Jamaica, N. Y.
Application April 17, 1928. Serial No. 270,766
15 Claims. (Cl. 112—117)



1. In a sewing machine having a stationary frame and a main drive shaft, the combination with sewing instrumentalities supported on said frame, of a movable frame mounted for horizontal reciprocal movement on said stationary frame, a pair of distinct independently movable cross bars supported on said movable frame in superposed relation thereto, feed rolls supported on said movable cross bars and means for supporting a fabric supply roll thereon so as to permit a fabric to be fed from said supply roll past said sewing instrumentalities to said feed rolls by being drawn by the latter rolls, means operable by said drive shaft for uniformly rotating said feed rolls,

there being means also operable by said shaft to move said movable frame, and means providing for a compact driving mechanism for said independently movable cross bars, including a rocker arm shaft supported on said movable frame having a pair of arms engaging said movable cross bars in such manner as to provide synchronous movements thereof upon movement of said latter shaft, a reciprocating member operable by said drive shaft, means arranged within the general outline of said movable frame and associated with said drive shaft for actuating said reciprocating member, and means associated with said rocker arm shaft and engaged by said reciprocating member whereby to oscillate said latter shaft and said rocker arms and thereby move said cross bars.

1,948,877

PROCESS OF TREATING AN IRISH POTATO HAVING THE SKIN REMOVED WITH FUMES OF BURNING SULPHUR TO BLEACH, PRESERVE, AND TO PREVENT DISCOLORATION

Charles D. Draper, Seattle, Wash., assignor to Albert Peter Grommesch, Seattle, Wash.

No Drawing. Application September 12, 1931 Serial No. 562,606 2 Claims. (Cl. 99—11)

1. The process of treating an Irish potato which has its corky layer removed by being subjected momentarily to high heat comprising exposing the resulting proteinous cortex layer to the fumes of burning sulphur.

1,948,878

CERAMIC ACOUSTICAL MATERIAL

Richard Ericson and James S. Offutt, Chicago, Ill., and Joseph R. Parsons, Hendersonville, N. C., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application March 22, 1932 Serial No. 600,558 7 Claims. (Cl. 25—156)

7. The process of producing a fired clay ceramic tile which comprises first forming a deflocculated clay slip and adding thereto a tenaceous foam and an agent capable of re-flocculating said slip after a definite lapse of time, thereupon incorporating ligneous fibers with the thus produced mixture, placing the final mixture into a mold and letting it set up therein, drying the thus produced form, and then firing the same to harden it while at the same time burning out the added fibers, which thereby produce interconnecting passages between the voids left by the foam.

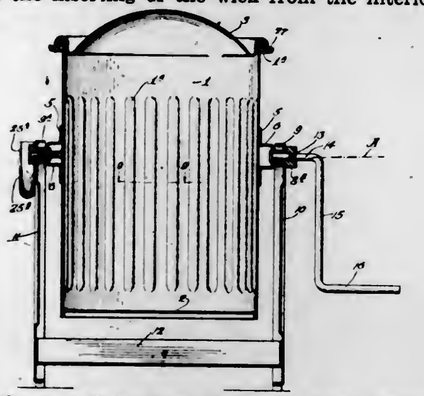
1,948,879

DRY CLEANING OR WASHING MACHINE

Lee B. Green, Lakewood, Ohio, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio, a corporation of Ohio

Application February 3, 1931, Serial No. 513,068 Renewed January 10, 1934 12 Claims. (Cl. 68—18)

1. In a washing machine, a container having a port in a wall thereof, a vent duct extending outwardly from the said wall and into which the port opens, the vent duct including a tubular bore portion adjacent to the said wall and of larger diameter than the said port, and a wick housed by the said bore portion and normally of a diameter corresponding substantially to the diameter of the said bore portion, the wick being sufficiently compressible to permit it to be contracted to the diameter of the said port to permit the inserting of the wick from the interior



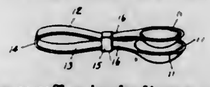
of the container into the said bore portion through the said port.

1,948,880

CIGARETTE SNUFFER

Phillip Hamm, Elwood, Ind.

Application April 22, 1932. Serial No. 606,821 3 Claims. (Cl. 131—59)



1. A cigarette snuffer including a pair of superposed, nesting bowl-shaped members, and a resilient connection therefor normally maintaining the same in separated position, the lowermost of said bowl-shaped members having a concave indentation in one edge and the margin of said edge forming a cutting edge impinging upon the undersurface of the uppermost of said members when said members are pressed together for severing the lighted end from a cigarette.

1,948,881

BITUMINOUS EMULSION

Lester Kirschbraun, Leonia, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

No Drawing. Application May 26, 1928 Serial No. 280,964 6 Claims. (Cl. 134—1)

1. The process which comprises mixing an emulsion comprising bitumen of heat liquefiable character, water and clay, with an emulsion of bitumen of substantially the same melting point as the first claimed bitumen, water and soap, to produce the combined emulsion system having a consistency thinner than either of the original emulsions comprising the combined system and a bitumen content higher than either of said original emulsions at the same consistency.

1,948,882

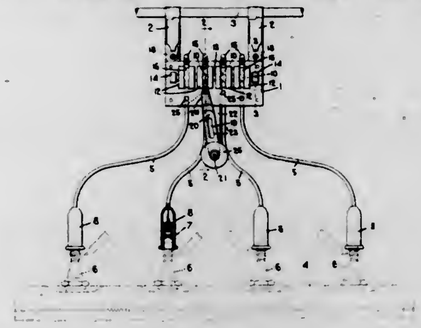
TESTING DEVICE FOR INTERNAL COMBUSTION ENGINES

John C. McMurray, Winthrop Center, Mass.

Application August 25, 1933. Serial No. 686,820 5 Claims. (Cl. 175—183)

1. A tester for internal combustion engines comprising a supporting frame or base, a plurality of circuit connections leading from the base

and adapted to be connected to the spark plugs of the engine, each circuit connection terminating in a contact element carried by the base, a plurality of rotary switch elements, one for each contact element, mounted on the base, a ground connection, each switch element adapted in one



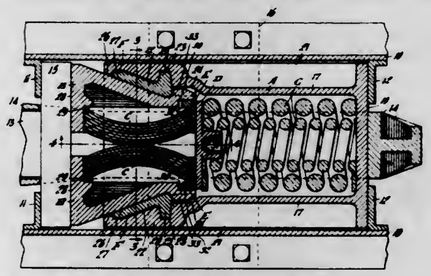
position to electrically connect the corresponding circuit connection to the ground connection and in another position to disrupt such connection, a neon gas tube and a movable carrier therefor by which said tube can be placed in flashing relation to any one of the circuit connections.

1,948,883

FRICTION SHOCK ABSORBING MECHANISM

John F. O'Connor, Chicago, Ill., assignor, by mesne assignments, of one-half to W. H. Miner, Inc., a corporation of Delaware, and one-half to Cardwell Westinghouse Company, a corporation of Delaware

Application May 31, 1928. Serial No. 281,769 2 Claims. (Cl. 213—30)



1. In a friction shock absorbing mechanism, the combination with a casing having opposed, interior, inwardly converging wedge faces at one end thereof; of a pair of wedge shoes cooperating with the wedge faces of the casing, each of the shoes being provided with an interior pocket on the inner side thereof; transversely disposed wear plate members, longitudinally movable in the inner ends of said pockets; spring means including a group of spring plates within each pocket, having the opposite ends thereof bearing on the front end wall of the pocket and the corresponding wear plate member, said plates being curved longitudinally and said two groups being interposed between the two shoes and yieldingly resisting relative approach of the same, said plates being flexed by relative approach of the shoes, thereby effecting elongation of said spring means and movement of said wear plates lengthwise of the shoes; a main spring resistance within the casing and a spring follower interposed between the main spring resistance and the wear plates.

1,948,884

PROCESS OF TREATING AN IRISH POTATO TO REMOVE THE CORKY LAYER AND THE PRODUCT THEREOF

Samuel Allan Patterson, Seattle, Wash., assignor to Albert Peter Grommesch, Seattle, Wash.

No Drawing. Application August 8, 1931 Serial No. 556,033 3 Claims. (Cl. 99—11)

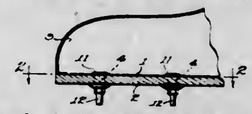
1. The process of treating an Irish potato (*Solanum tuberosum*) to remove the outer or corky layer while preserving the natural appearance or configuration with fidelity with respect to the natural eyepit and fissure markings, comprising subjecting said potato uniformly over its entire surface to a sudden shock of heat of a relatively high temperature for a period of time sufficient to cause moisture to be collected immediately beneath the said corky layer, and to loosen said corky layer thereby, and only to dehydrate and only to coagulate that portion of the cortex layer next to the corky layer to form a relatively thin protective coating, and immediately after exposure to said shock of heat cooling said potato, whereby evaporation subsequently of moisture in the potato is inhibited, so that a product results which is in the raw natural state beneath the said protective coating, and which raw product may be stored under normal and customary conditions without deterioration for a relatively long time before cooking.

1,948,885

ATHLETIC SHOE CLEAT FASTENER

John T. Riddell, Evanston, Ill.

Application October 17, 1931. Serial No. 569,438 12 Claims. (Cl. 36—59)



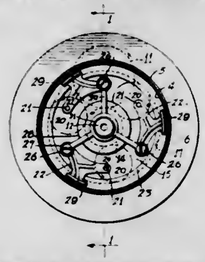
1. The method of securing a cleat fastener to a shoe sole which consists in pressing a relatively soft metal stud through a serrated perforation in a hard metal plate disposed against the sole, the plate serrations cutting complementary grooves in the stud, and then securing the end of the stud to prevent its withdrawing from the plate.

1,948,886

FISHING REEL

Frederick W. Russell, Vallejo, Calif.

Application June 20, 1932. Serial No. 618,378 8 Claims. (Cl. 242—84.5)

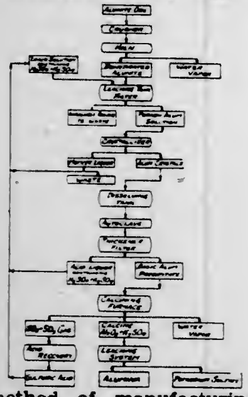


8. In combination, a revolvably mounted brake drum, a spider mounted coaxially therewith, brake shoes pivoted in the spider arms and engageable with the drum and floating gears having eccentric pins connected to the brake shoes for effecting the engagement when the gears are rotated.

1,948,887
METHOD OF MANUFACTURING ALUMINA

Walter Murray Sanders, deceased, late of Montclair, N. J., by Louise D. Sanders, administratrix, Montclair, N. J., assignor, by mesne assignments, to Kalunite Company, a corporation of Delaware

Application April 22, 1932. Serial No. 606,909
4 Claims. (Cl. 23—143)

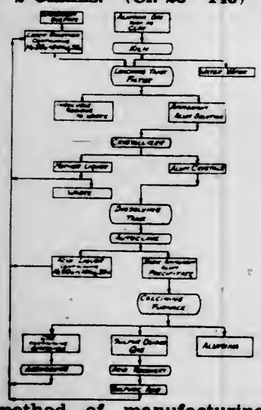


1. The method of manufacturing alumina which consists in heating a solution of a normal alkali metal alum to temperatures in excess of 140° C. in order to precipitate therefrom a basic alkali metal alum consisting of a hydrated compound of alkali sulphate and basic aluminum sulphate, separating said compound from its mother liquor, calcining the precipitated basic alum at temperatures above 750° C. and below 1000° C. to dehydrate and decompose the aluminum sulphate constituent of the basic alum and drive off therefrom sulphur dioxide and/or sulphur trioxide gases, leaching the residual calcine to separate the insoluble alumina from the soluble alkali metal sulphate.

1,948,888
METHOD OF MANUFACTURING ALUMINA

Walter Murray Sanders, deceased, late of Montclair, N. J., by Louise D. Sanders, administratrix, Montclair, N. J., assignor, by mesne assignments, to Kalunite Company, a corporation of Delaware

Application April 22, 1932. Serial No. 606,910
2 Claims. (Cl. 23—143)

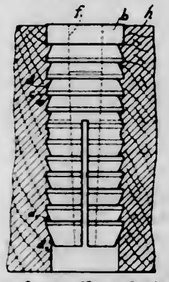


1. The method of manufacturing alumina which consists in calcining a basic ammonium alum at temperatures between 500° and 600° C. to decompose its ammonium sulphate constitutent and drive off ammonia, together with the combined water of the basic alum and simultaneously effecting a reaction between the sulphur trioxide component of the ammonium sulphate with the basic alumina constituent of the basic alum, recovering the ammonia thus eliminated from the basic alum, then increasing the calcining temperature, to which the residual basic aluminum sulphate is subjected, to from 700° to 1000° C. to decompose the aluminum sulphate and drive off as anhydrous gas its sulphur trioxide component and recovering sulphuric acid from said anhydrous gas.

1,948,889
DOWEL PIN, STUD, OR THE LIKE

Ernst Simon, Berlin, Germany

Application March 24, 1931, Serial No. 524,954
In Germany April 15, 1930
4 Claims. (Cl. 85—23)

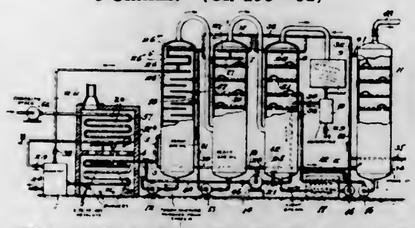


3. A dowelling for railroad ties comprising an expansion plug driven into the tie-holes and having a series of annular conical collars on its body, said conical collars having an upper surface converging to the upper surface of the tie and having a lower surface substantially parallel with said upper surface of the tie.

1,948,890
PROCESS FOR TREATING HYDROCARBON VAPORS

Willis F. Sims and Venus U. Cloer, Wichita Falls, Tex., assignors to Panhandle Refining Company, Wichita Falls, Tex., a corporation of Texas

Application February 16, 1928. Serial No. 254,753
6 Claims. (Cl. 196—61)



1. The method of treating hydrocarbon oils to produce lower boiling hydrocarbons from higher boiling hydrocarbons which comprises the following steps: forcing charging oil under regulable pressure into a preheating zone, preheating the same therein to a temperature sufficient to flash the oil into vapor at sub-atmospheric pressure, while maintaining in said zone a pressure above atmospheric, releasing said oil from pressure in the preheating zone into an expanded flashing zone to flash into vapor substantially the entire amount of said oil while maintaining sub-atmospheric pressure, drawing only the vapors produced in the flashing zone through an open connection into a cracking zone which is under a lower sub-atmospheric pressure, drawing out the cracked vapors so as to maintain the said low pressure, passing them through fractionating zones, and passing the desired vapors from the last fractionating zone to cooling and separating zones.

1,948,891
PROCESS FOR THE MANUFACTURE OF ORGANIC COMPOUNDS FROM ORGANIC COMPOUNDS HAVING ONE OR MORE DOUBLE BONDS IN THE MOLECULE

Adrianus Johannes van Peski, Amsterdam, Netherlands, assignor to Naamlooze Vennootschap de Bataafsche Petroleum Maatschappij, The Hague, Netherlands

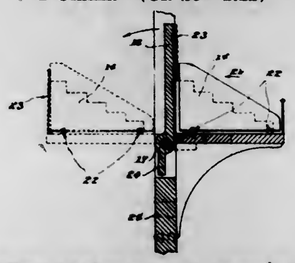
No Drawing. Application July 23, 1930, Serial No. 470,248. In Great Britain August 6, 1929
15 Claims. (Cl. 260—153)

1. A process of absorbing cyclic hydrocarbons having at least one double bond in a non-aromatic nucleus in strong acids, in the presence of a catalyst comprising at least one metal of group VIII of the periodic system.

1,948,892
AUDITORIUM

Jules Ernest Varin, Neuilly-sur-Seine, France

Application October 11, 1929, Serial No. 396,946
In France November 14, 1928
1 Claim. (Cl. 20—1.12)



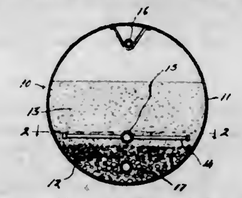
A building having a wall provided with an opening, a fixed floor extending from one side of said wall at a point near the lower side of said opening, a sliding gallery on said fixed floor and arranged opposite said opening and adapted to be moved therethrough, and a floor element pivotally mounted in said opening and momentarily closed therein, and when in open, horizontal position, being substantially level with said fixed floor, and means by which said sliding gallery is connected to said pivotally mounted floor element so that when said pivotally mounted floor element is turned to horizontal position said sliding gallery is withdrawn from the fixed floor and through said opening in the wall and is supported on and by said pivotally mounted floor element.

1,948,893
FLUID TREATING SYSTEM

James H. Walker, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York

Application July 21, 1930. Serial No. 469,536
7 Claims. (Cl. 210—24)

1. In a fluid treating system, a container, a gravel bed, a layer of base exchange material supported by said gravel bed, an outlet pipe embedded in the gravel bed below the top thereof, a pipe in the upper portion of the container adapted to be used both for fluid treating and



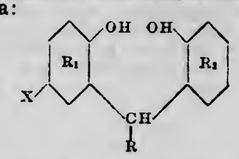
for base regeneration, and an inlet pipe located between the gravel bed and the layer of base exchange material.

1,948,894
NEW CONDENSATION PRODUCTS

Max Weiler, Wiesdorf-on-the-Rhine, and Berthold Wenk and Hermann Stötter, Leverkusen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany

No Drawing. Application February 27, 1930, Serial No. 431,968. In Germany March 4, 1929
7 Claims. (Cl. 260—64)

5. As new products the compounds of the general formula:

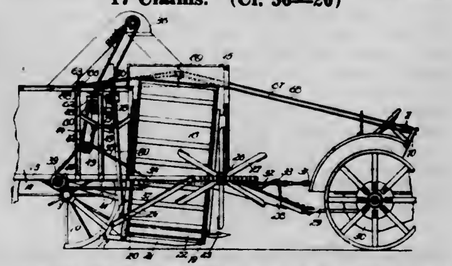


wherein R stands for H or an aryl radical and wherein X stands for halogen or alkyl, wherein the hydroxybenzene nuclei may be further substituted by halogen or alkyl, the nuclei R_1 and R_2 being different from each other, said products being colorless or nearly colorless powders, soluble in alkalies and insoluble or nearly insoluble in water with the exception of the compounds containing a sulfonic acid group, being valuable preserving agents and moth-proofing media.

1,948,895
HARVESTER THRESHER

Albert B. Welty, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application April 6, 1931. Serial No. 527,880
17 Claims. (Cl. 56—20)



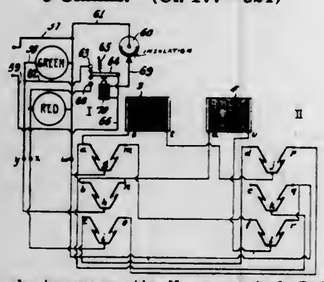
1. The combination with a tractor-pulled harvester thresher in which the harvester thresher comprises an axle carrying a separator housing and a platform connected to the axle for up and down adjustment, of power actuated platform adjusting means carried by the separator hous-

ing including a bar connected to raise and lower the platform, means to hold the power actuated means normally inoperative, and means comprising flexible pull ropes operable by the operator from his seat on the tractor to overcome said holding means and to cause actuation of the power means.

1,948,896
TRAFFIC REGULATING DEVICE

Leonard Kay Wright, Jackson Heights, N. Y.

Application February 16, 1929, Serial No. 340,413
Renewed July 27, 1933
6 Claims. (Cl. 177—324)

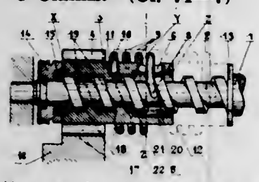


1. An electromagnetically-operated fluid compressor comprising a cylinder, a solenoid mounted on said cylinder adjacent each end thereof, a magnetically-susceptible piston reciprocally mounted in said cylinder, a plurality of double-throw switches mounted in each end of the cylinder and means carried by the piston for operating said switches, an electric circuit for each solenoid including the switches, one of which is adapted to be connected to one solenoid when both switches are in similar positions and the other of which is adapted to be connected to the other solenoid when the switches are in unlike positions.

1,948,897
STARTING DEVICE FOR INTERNAL COMBUSTION ENGINES

Marcel Bailly, Neuilly-sur-Seine, France

Application March 31, 1932, Serial No. 602,297
In France April 11, 1931
5 Claims. (Cl. 74—7)



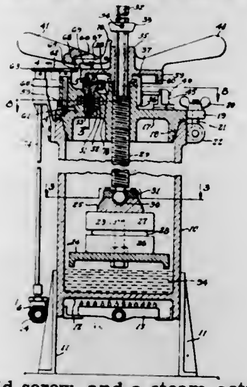
1. A starting device for internal combustion engines, including in combination, a one-piece screw-threaded motor-driven shaft, a toothed pinion having an internal screw threaded part mounted with longitudinal play in engagement with said screw-threaded motor-driven shaft, said pinion being adapted to mesh with a gear wheel of an engine fly-wheel, and a resilient element carried by said pinion and positioned to engage a thread of said motor-driven shaft for taking up said longitudinal play.

1,948,898
STEAM PRESS FOR CELLULOSE MATERIALS

Julius J. E. Baumgarten, Portland, Oreg.

Application April 17, 1933. Serial No. 666,538
5 Claims. (Cl. 18—7)

1. A steam press having in combination a container, means for supplying heat to said container, a closure for said container having a screw press depending therefrom extending into said container and having the screw thereof projecting through said closure, means for manually

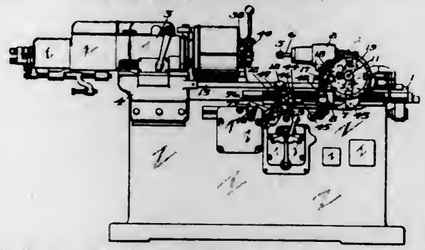


rotating said screw, and a steam-actuated prime mover for actuating said screw from steam developed within said container.

1,948,899
GRINDING MACHINE

Harold L. Blood, Worcester, Mass., assignor to The Heald Machine Company, Worchester, Mass., a corporation of Massachusetts

Application June 11, 1931. Serial No. 543,648
15 Claims. (Cl. 51—50)

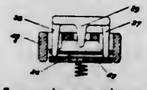


1. In a grinding machine, a grinding wheel having an operative position in engagement with a workpiece, and an inoperative position axially spaced from the workpiece, means to procure a cross-feed movement between said wheel and a workpiece, means to procure axial withdrawal of said wheel to inoperative position, and electrically actuated means to procure cessation of said cross-feed movement prior to said withdrawal.

1,948,900
APPARATUS FOR CINEMATOGRAPHIC PROJECTION

Jacques Bogopolsky, Geneve-Acacias, Switzerland

Application June 26, 1931, Serial No. 547,093
In France June 26, 1930
1 Claim. (Cl. 88—18.4)



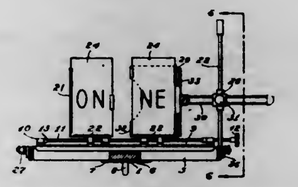
In apparatus for cinematographic projection, a film gate element having a pair of channels for the reception and passage of films one deeper and of less width than the other, and a longitudinal slot in the bottom of the deeper channel and a longitudinal slot at one side of the wider channel; a claw member having a relatively long claw at

one side arranged to operate in the side slot and a relatively short claw arranged to operate in the slot in the bottom of the deeper channel, and interchangeable presser members each adapted for arrangement in only one of the channels for pressing the film in such channel against the bottom thereof, each of said presser members having yieldable pressing means.

1,948,901
ORTHOPTIC TRAINING DEVICE

Theodore A. Brombach, San Francisco, Calif.

Application March 16, 1931. Serial No. 523,122
3 Claims. (Cl. 88—20)

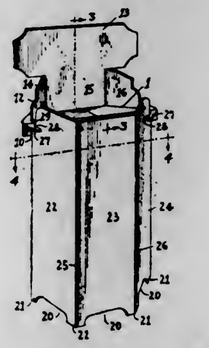


1. An orthoptic training device comprising a frame having eye windows, a carrier adjustably supported by said frame for movement toward and away from the windows, a card holder movable on the carrier, means for gradually moving the holder transversely of the frame, a second card holder having an arm, a second arm supported by the carrier, and means adjustably connecting the two arms together, whereby the second card holder can be adjusted vertically and horizontally.

1,948,902
FLOOR DISPLAY STAND

David M. Carmichael, Maplewood, N. J., assignor to The Atlantic Lithographic & Printing Company, New York, N. Y., a corporation of New York

Application April 26, 1932. Serial No. 607,626
5 Claims. (Cl. 211—156)



1. The combination with a series of vertical panels flexibly connected together so that they may be collapsed upon themselves, of a shelf inseparably connected to the panels and comprising sections hinged together and to the panels to hold the panels extended when the sections are brought into the same horizontal plane, and means engaging the vertical panels and holding the shelf in a horizontal position when weighted by the articles thereon.

1,948,903
PROCESS FOR IMPROVING ACYL CELLULOSE

Erich Correns and Albert Möhring, Elberfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany

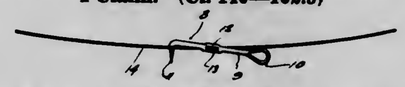
No Drawing. Application October 13, 1928, Serial No. 312,394. In Germany October 22, 1927
5 Claims. (Cl. 260—102)

1. The process for improving unstable acyl celluloses which comprises treating an acyl cellulose with a hydrolytically acting agent of the group consisting of dilute acids of, at the most, 10 per cent strength and substances displaying an equivalent acid effect in contact with water, at atmospheric pressure and at temperatures up to 100° C., and interrupting the process before a splitting off of any of the organic acyl groups takes place.

1,948,904
FENCE TOOL

Albert P. Cox, Young, Ariz., assignor of one-half to Jeff McInturff, Young, Ariz.

Application April 18, 1933. Serial No. 666,754
1 Claim. (Cl. 140—102.5)

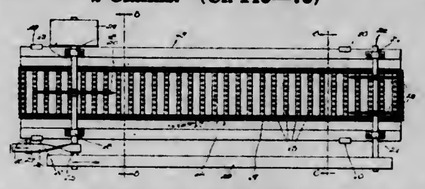


In a tool of the class described, a one-piece bar of elongated form having the intermediate portion thereof flattened to form flat, wire engaging sides, said flat intermediate portions being formed with an elongated wire receiving slot opening out through said flat sides for the passage of a length of wire, the end portions of said elongated bar being free for manual engagement.

1,948,905
MACHINE FOR SPLITTING ABACA STALKS

Nevin H. Duckworth, Davao, Philippine Islands, assignor to International Harvester Company, a corporation of New Jersey

Application January 19, 1931. Serial No. 509,668
2 Claims. (Cl. 146—73)



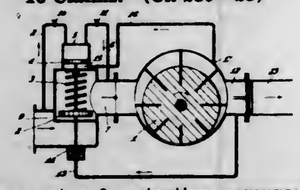
1. A stalk cutter machine comprising a main frame, an elongated horizontally disposed flat platform carried on the frame, said platform having outwardly and upwardly inclined sides to form a trough, a longitudinally positioned frame sill carried on each trough side, a transverse shaft journaled on the frame sills at one end of the machine, a single cutter on the shaft arranged centrally over the platform between the edges of the platform, a second transverse shaft at the other end of the machine and also journaled on the frame sills, said second shaft carrying a pair of cutters arranged over the platform with one disposed relatively close to each edge of said platform, the longitudinal distance between the cutter at one end and the cutters at the other end being greater than a predetermined length of stalk to be cut, an endless conveyer traveling longitudinally over the platform, said conveyer being of substantially the same width as the platform, whereby a stalk fed in its lengthwise direction along the longitudinal median line of the

platform to the single cutter is halved thereby and said halves then laying over on the platform toward the edges thereof with each half in a position to be fed to each remaining knife at the other end of the machine to be split in half again, and means to drive the shafts to operate the cutters.

1,948,906
FLOWABLE COATING COMPOSITION
George Benjamin Dunford, St. Louis, Mo.
No Drawing. Application January 22, 1931
Serial No. 510,509
9 Claims. (Cl. 134—51)

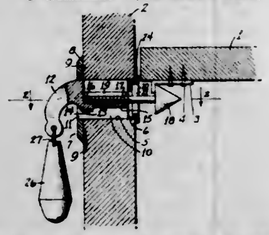
1. A coating composition which is flowable at atmospheric temperatures and which comprises approximately two parts asphalt, a quantity of naphtha at least equivalent to the weight of the asphalt, and at least one part talcous-agalite.

1,948,937
COMPRESSOR
Eugen Egli, Winterthur, Switzerland
Application April 14, 1932, Serial No. 605,314
In Germany April 18, 1931
16 Claims. (Cl. 230—28)



1. In apparatus for starting compressors under no-load conditions, the combination with a compressor having an inlet pipe and an exhaust pipe; of a valve in the suction pipe opening towards the compressor, spring means urging the valve to close, a cylinder alined with the valve on the side towards the compressor, a piston in said cylinder having a rod connected with said valve, and means to establish piston operative communication between a point on the suction pipe located between the valve and compressor and a point on the cylinder at the side of the piston remote from the valve.

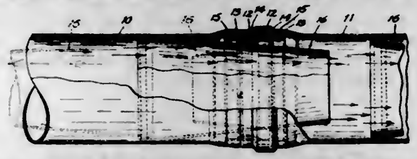
1,948,908
DOOR PULL AND LATCH
Carol L. Evans, Tipton, Calif.
Application August 15, 1932. Serial No. 628,924
5 Claims. (Cl. 292—202)



1. In a door pull and latch, a casing having a trigger guide, a trigger fulcrumed in the guide and having a slit post with a threaded bore, and a latch having a conical-shaped head and a threaded shank adjustably received in the bore.

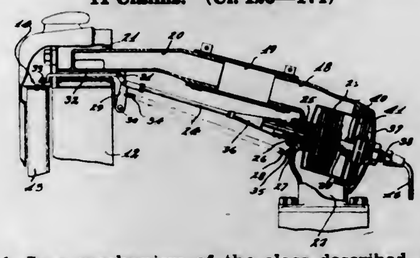
1,948,909
FLEXIBLE VENTILATING TUBING OR THE LIKE
William Hooper Evans, Bridgeport, Conn.
Application August 21, 1931. Serial No. 558,489
5 Claims. (Cl. 137—90)

1. A flexible ventilating tubing section, having end joint coupling means at each end, and tubular means at one end disposed interiorly of said coupling means and having one end adapted to extend beyond the end of the tubing section, said



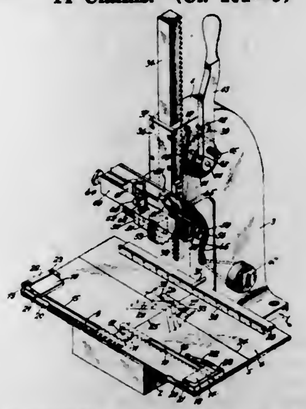
tubular means being reversible whereby it may be extended in one direction or the other longitudinally of said section.

1,948,910
THERMOSTATIC SHUTTER CONTROL
Claude E. Furgason, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a corporation of Michigan
Application July 21, 1930. Serial No. 469,563
11 Claims. (Cl. 123—174)



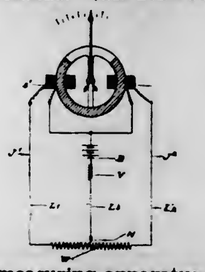
1. In a mechanism of the class described, the combination with a motor having a fluid line under pressure during the operative periods of the motor, shutters, and heat responsive means adapted to actuate said shutters, of means operative by the pressure in said fluid line for controlling the actuation of said shutters by said heat responsive means.

1,948,911
EMBOSSING AND PRINTING MACHINE
Prince A. Gardner, Jr., St. Louis, Mo.
Application August 27, 1932. Serial No. 630,619
14 Claims. (Cl. 101—9)



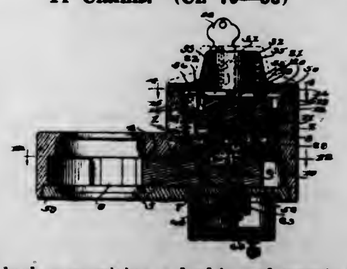
13. An embossing and printing machine comprising a longitudinal movable plunger, a forward extension at the lower end of said plunger, a type carrier pivoted to the forward end of said extension, gearing for moving said plunger vertically, and gearing for turning said type carrier upwardly to position in which said type carrier extends upwardly in front of said plunger when said plunger is moved upwardly.

1,948,912
ROTATING ARMATURE-QUOTIENT MEASURING INSTRUMENT
Wilhelm Geyger, Dusseldorf, Germany
Application November 20, 1930, Serial No. 497,028
In Germany November 22, 1929
3 Claims. (Cl. 171—95)



1. Quotient measuring apparatus comprising a pivotally mounted interrupted circular core, an indicator hand movable therewith, a scale to indicate the position of said hand, a pair of relatively fixed coils through the centers of which the opposite sides of the core pass and are free to move, each of said coils comprising two mutually separated entirely similar parts, a conductor forming a closed circuit including one part of each coil and also including a resistance; a second conductor forming a closed circuit including the other part of each coil and also including a resistance between said coil parts; a circuit connected to said conductors and including a source of current and a resistance, and a sliding contact movable on the first named resistance and operated by the said interrupted circular core.

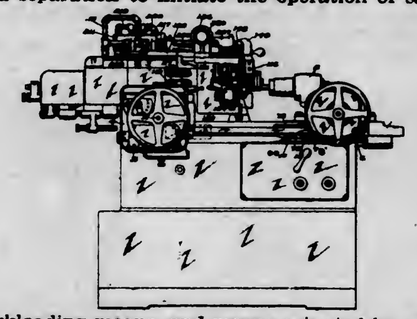
1,948,913
AUTOMOBILE AND OTHER LOCK
Victor L. Gilpin, Baltimore, Md.
Application February 18, 1929. Serial No. 340,963
14 Claims. (Cl. 70—53)



1. A lock comprising a locking element, a pair of individually movable members of which one is in working connection with the locking element, a locking bar, and means carried by one of said members for wedging the locking bar in position between said members for unitary movement of the latter.

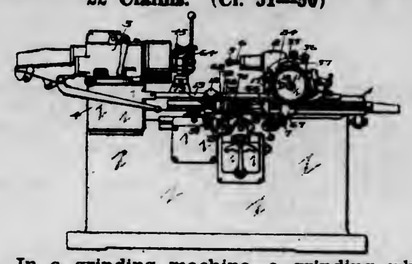
1,948,914
GRINDING MACHINE
Waldo J. Guild, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application July 20, 1931. Serial No. 551,922
33 Claims. (Cl. 51—215)

1. In a grinding machine, a grinding wheel and a workholder in operative relation thereto, means to procure separation of said wheel from said member at the completion of a grinding operation, workloading means, means responsive to said separation to initiate the operation of said



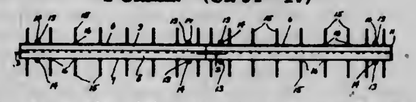
workloading means, and means actuated by said workloading means to return the wheel to operative position relative to the workholder.

1,948,915
GRINDING MACHINE
Richard A. Heald, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application June 5, 1931. Serial No. 542,240
22 Claims. (Cl. 51—50)



1. In a grinding machine, a grinding wheel having an operative position and an extended inoperative position axially spaced from a workpiece, mechanism for procuring a cross-feed movement between said wheel and workpiece in operative position, means actuated by said mechanism to procure movement of said wheel axially of said workpiece to inoperative position, and means to procure cessation of said cross-feed movement prior to withdrawal of the wheel in response to said mechanism.

1,948,916
EXPANSION JOINT
Hurley Newton Henderson, Quincy, Ill., assignor of one-half to Peter Ballas, Quincy, Ill.
Application May 2, 1931, Serial No. 534,671
Renewed November 22, 1933
1 Claim. (Cl. 94—17)



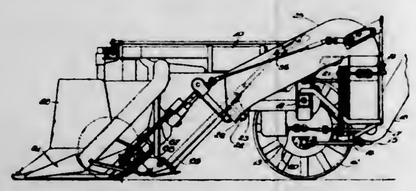
An expansion joint structure of the class described comprising a longitudinally elongated hollow boxlike structure including a unit embodying a pair of telescopically connected companion sections and means for anchoring said sections to respective portions of the road, one of said sections being provided at its outer end with an attaching ear, an end covering plate for the companion section secured to said ear.

1,948,917

GATHERING MEANS FOR CORN PICKERS

Rex B. Hitchcock, Croix-Wasquehal, France, assignor to International Harvester Company, a corporation of New Jersey

Application April 20, 1933. Serial No. 666,970
8 Claims. (Cl. 56—18)



1. In a corn picker having a downwardly extending frame structure for supporting the snapping rolls and gathering chains, and in combination therewith a lower chain sprocket adjustably secured to the frame structure adjacent the ground level, an upper sprocket mounted above said sprocket and in driving alignment therewith, means for driving the upper sprocket and a gathering chain with outwardly extending fingers mounted on said sprockets, said fingers projecting a sufficient distance when the lower chain sprocket is in its lowermost position of adjustment to pass adjacent the ground level.

1,948,918

METHOD AND APPARATUS FOR PRODUCING RADIATOR SHELLS AND THE LIKE

George E. Ireland, Toledo, Ohio; Edith May Ireland and Dwight B. Ireland executors of said George E. Ireland, deceased

Application April 6, 1932. Serial No. 603,602
14 Claims. (Cl. 113—48)



1. The method of producing a radiator shell or the like comprising bending a flat strip of sheet metal into a U-shape, placing said U-shaped strip about an internal forming device and inserting the free end portions thereof in a clamping device, actuating said clamping device to secure said end portions against movement, actuating said forming device to expand the intermediate longitudinal portion of said strip outwardly beyond the edges thereof, severing said strip along a central longitudinal line to provide two partially formed shells and subjecting said partially formed shells separately to the action of other expanding devices to impart final form thereto.

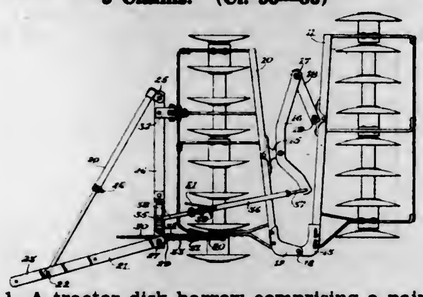
5. In an apparatus for forming U-shaped shells, an internal forming device comprising side die members, an end die member and corner die members, a clamping device mounted in fixed position at that end of said forming device opposite said end die member and adapted to engage the end portions of a U-shaped strip placed about said forming device, and means for first actuating said clamping device to clamp said end portions against movement and then moving said die members outwardly.

1,948,919

TRACTOR DISK HARROW

Arnold E. W. Johnson, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application June 8, 1933. Serial No. 674,913
5 Claims. (Cl. 55—83)



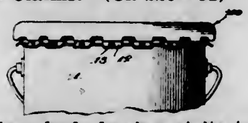
1. A tractor disk harrow comprising a pair of disk gang frames disposed in tandem relation, means pivotally connecting the frames for horizontal angular adjustment, a draft frame comprising forwardly converging draft bars and a transverse bar, a supporting member at each end of said transverse bar for connecting it pivotally to the front gang frame for swinging movement vertically, said transverse bar being pivoted to one supporting member on a vertical axis and having a horizontal slidable connection with the other, linkage connecting the transverse bar with the rear gang frame, and means at said slidable connection for adjustably locking the draft frame after horizontal angular movement thereof.

1,948,920

ATTACHING MEANS FOR CONTAINER HEADS

Smith M. Johnson, Middlefield, Ohio

Application June 30, 1931. Serial No. 548,010
2 Claims. (Cl. 220—61)



2. A container body having at its top an outwardly and downwardly curved flange with its edge presenting a shoulder spaced from the container, an outwardly bulged rib formed in said container and positioned adjacent the top thereof, a top for said container having a curved flange overlying the body flange, a gasket between said flanges, a sealing ring shaped to fit over the top flange and having an inwardly curved flange engageable beneath the shoulder of the container flange and bent to lie within the space defined by the shoulder and container when assembled, said ring flange having a plurality of lugs bent to frictionally engage the upper portion of said rib for normally holding said flange closely to said shoulder.

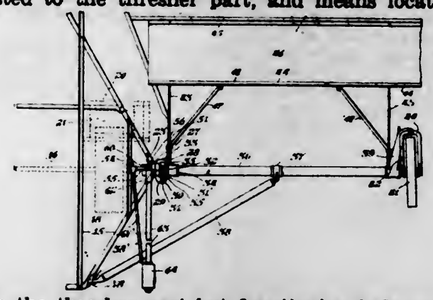
1,948,921

HARVESTER THRESHER

Edward A. Johnston, Chicago, Clemma R. Raney, Riverside, and Arnold E. W. Johnson, Chicago, Ill., assignors to International Harvester Company, Chicago, Ill., a corporation of New Jersey

Application October 14, 1926. Serial No. 141,449
30 Claims. (Cl. 56—20)

1. In a harvester thresher, the combination of a thresher part, a rockable harvester part including a rockable axle to support the same, said axle with the harvester part being hingedly related to the thresher part, and means located



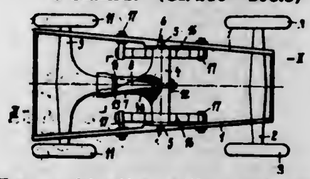
on the thresher part but functioning independently thereof for counterbalancing rocking movement of the harvester part.

1,948,922

RESILIENT SUPPORT FOR MOTOR CARS

Herbert Jyrch, Dresden, Germany

Application December 16, 1931, Serial No. 581,431
In Germany December 16, 1930
5 Claims. (Cl. 280—106.5)



1. The combination with a vehicle frame, of a T-shaped member having the head of the T journalled at each arm to a respective side of the frame to permit the member to oscillate on a horizontal axis transversely of the frame, the stem of said member being in the longitudinal vertical medial plane of the frame, a second T-shaped member having its head forming a wheel axle and its stem axially alined with the stem of the first member, a pivotal connection between said stems arranged to permit rotative movement of the second member on the axis of said stems, and spring means connecting said first member and frame and arranged to hold the latter normally in a horizontal plane.

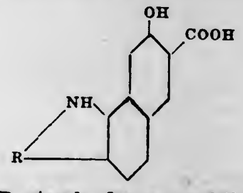
1,948,923

SUBSTITUTED BENZO - CARBAZOLE - CARBOXYLIC ACID AND PROCESS OF PREPARING IT

Georg Kalischer, Frankfort-on-the-Main, Otto Limpach, Wiesbaden-Biebrich, and Karl Hager, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 16, 1931, Serial No. 523,184. In Germany March 19, 1930
12 Claims. (Cl. 260—46)

1. The compounds of the following general formula:



wherein R stands for a naphthalene radical bound in 1.2-position, which may contain chlorine or a hydroxy or carboxy group as substituents, being yellow substances which melt at temperatures above 300° C. and dissolve in dilute sodium carbonate solution.

1,948,924

NITROGEN CONTAINING CONVERSION PRODUCTS OF HIGHER ALIPHATIC HYDROCARBON AND PROCESS OF PREPARING THE SAME

Karl Keller, Frankfort - on - the - Main-Fechenheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 3, 1930, Serial No. 418,419. In Germany January 8, 1929
8 Claims. (Cl. 260—127)

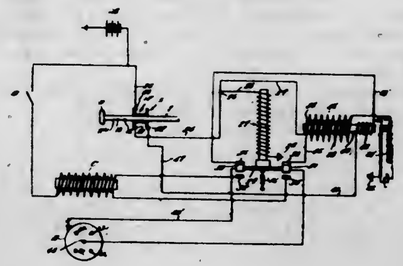
1. A process which comprises heating chlorinated aliphatic hydrocarbons containing at least 9 carbon atoms and at least 2 chlorine atoms with ammonia in a closed vessel at a temperature between about 140 and about 190° C.

1,948,925

AUXILIARY IGNITION SYSTEM

Rayfield George Klingler, Shelby, Mont.

Application December 1, 1931. Serial No. 578,289
2 Claims. (Cl. 123—148)



1. In combination with a conventional internal combustion engine ignition system which includes a battery, a high tension transformer, a switch for connecting and disconnecting the battery to the transformer, a distributor unit including breaker points fed by the transformer, and a spark plug fed by the distributor; an auxiliary high tension transformer having a vibrator, switch means for connecting the auxiliary transformer to be fed by the battery and for simultaneously disconnecting the first transformer from the battery, and for disconnecting the secondary of the first transformer and simultaneously connecting the secondary of the auxiliary transformer in feeding relation to the distributor unit, coil means on the core of the auxiliary transformer and connectible by the switch means to be energized by the battery for increasing the magnetic flux of the core and thereby hold the vibrating arm of the auxiliary transformer vibrator inoperative and out of engagement with the stationary arm of the vibrator to prevent incidence of a spark at the spark plug, the breaker points of the distributor unit being interpolated in the circuit of the said coil means whereby the opening and closing of the distributor breaker points control the later incidence and longer duration at the spark plug of the spark produced by the auxiliary transformer.

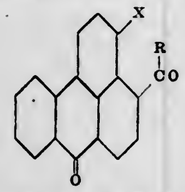
1,948,926

CONDENSATION PRODUCT OF THE PYRENQUINONE SERIES AND PROCESS OF PREPARING IT

Georg Kränzlein and Heinrich Vollmann, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 6, 1928. Serial No. 259,598. In Germany March 12, 1927
12 Claims. (Cl. 260—61)

1. The process which comprises treating with an acid condensing agent, while introducing oxygen, a compound of the following general structure:



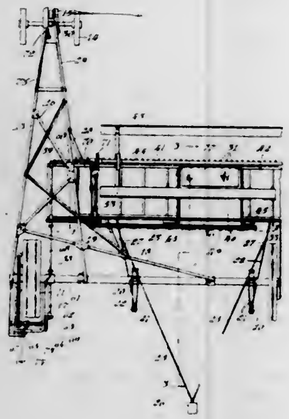
wherein R stands for an aromatic hydrocarbon radical of the benzene and naphthalene series containing at least one unsubstituted ortho-position to the CO-group, X stands for hydrogen.

1,948,927

WINDROW HARVESTER

Alexus C. Lindgren, Chicago, and Clemma R. Raney, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application February 23, 1929, Serial No. 341,977
In Argentina May 29, 1928
20 Claims. (Cl. 56—23)



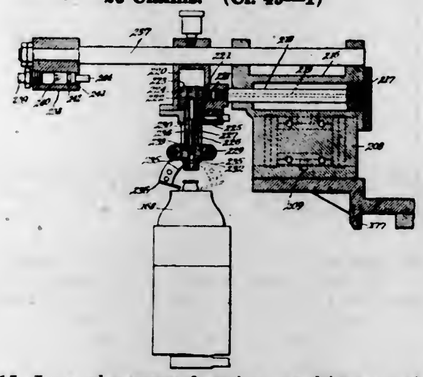
1. In a windrow harvester, a platform carried on a front Z-bar and a rear angle bar, said platform having a discharge opening therein intermediate its ends, said Z-bar being continuous and carrying cutting apparatus, said angle bar being broken away at the rear of the opening, conveyers on the platform running in the direction of said opening, and a plate carried by the Z-bar to extend rearwardly and downwardly into the opening.

1,948,928

GLASS BLOWING MACHINE

James W. Lynch and Edward G. Bridges, Anderson, Ind., assignors to Lynch Corporation, a corporation of Indiana

Original application June 4, 1917, Serial No. 172,678. Divided and this application December 12, 1930, Serial No. 501,965. In Australia February 7, 1921
26 Claims. (Cl. 49—1)



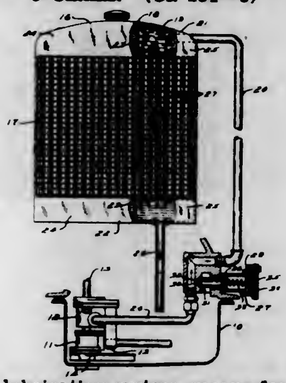
15. In a glassware forming machine, a rotatable mold carrier having a plurality of molds mounted thereon, fluid pressure operated means for intermittently moving said molds through successive stations including a take-out station, means for forming glass articles in said molds, a conveyor, fluid pressure operated means for intermittently moving said conveyor, a take-out mechanism for removing formed ware from the molds and depositing it on the conveyor, means for locking the mold carrier to hold the molds successively at the take-out station and valve means associated with and controlled by the locking means for controlling the admission of fluid pressure to said fluid pressure operated means and take-out to effect actuation of the take-out, and subsequent simultaneous movement of the molds and conveyor.

1,948,929

LUBRICATING SYSTEM

Earle S. MacPherson, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a corporation of Virginia

Application January 13, 1930. Serial No. 420,561
9 Claims. (Cl. 184—6)



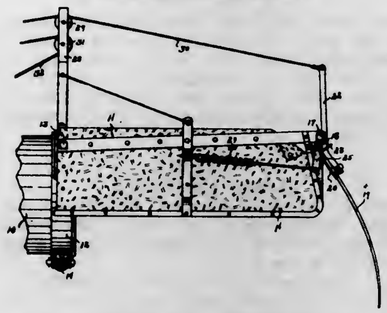
1. In a lubricating system, means for receiving lubricant, means for conducting a supply of lubricant to the means aforesaid, a pressure relief valve for controlling the flow of lubricant to said first mentioned means and thermostatic means for controlling the operation of said relief valve.

1,948,930

CONTROLLABLE HOOD FOR WIND STACKERS OF GRAIN SEPARATORS

Charles D. Mattix, Beacon, Iowa

Application September 8, 1932
Serial No. 632,128
4 Claims. (Cl. 302—10)



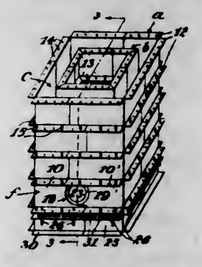
1. In a device of the class described, an inverted trough member open at both ends, a means for securing the rear end of said trough member to the terminal end portion of a tube, a downwardly and forwardly extending baffle member in the forward end portion of said trough member, a tined grid in the forward end portion of said trough member, and a baffle wall secured to the upper portions of said tined grid normally closing the extreme upper portion of the open forward end of said trough member.

1,948,931

FORM FOR CONCRETE CATCH BASINS OR THE LIKE

Charles J. Mears, Rumson, N. J.

Application November 7, 1931. Serial No. 573,545
10 Claims. (Cl. 25—124)



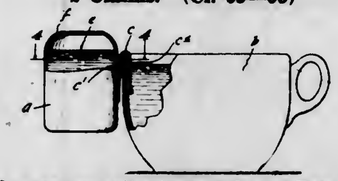
1. In a form device for casting the concrete side walls of a catch basin, a plurality of vertically disposed plates adjustably connected to make a continuous outer section for forming in continuity the outer faces of the side walls, a plurality of vertically disposed plates adjustably connected to make a continuous inner section for forming in continuity the inner faces of the side walls, certain of the adjustably connected plates of the outer section having main segmental pipe receiving openings, and auxiliary adjustably connected plates having segmental pipe receiving openings differing in size from the main segmental openings.

1,948,932

MEASURING NONSPILLING CREAMER ATTACHMENT FOR COFFEE CUPS

Alda McMickle, Redmond, Oreg.

Application September 16, 1930
Serial No. 482,199
2 Claims. (Cl. 65—65)



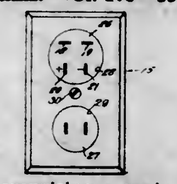
1. A creamer attachment for coffee cup and the like, comprising a container provided at one side with means for affixing on the rim of a cup, such means adapted to hold the container against rocking laterally, said affixing means further adapted to indicate that plane of the interior of the container which assures a full measure of a given quantity and the top of the container being contracted and curved inward towards the rim, thereby to reflect back into the container any waves induced on the surface of its contents.

1,948,933

OUTLET AND CONNECTION

Harold D. Miller, Rochester, N. Y.

Application July 1, 1932. Serial No. 620,498
4 Claims. (Cl. 173—330)



1. An outlet comprising a main body portion, said main body portion comprising a dielectric block having in its inward side an upper recess and a lower recess and a partition in the upper recess dividing the same into an upper compartment and a lower compartment, a pair of upper slots formed through the body portion and communicating with the upper compartment, a pair of disaligned lower slots through the body portion and communicating with the lower compartment; a single pair of slots through the body portion and communicating with the lower recess; a base comprising a dielectric block engaged with the back face of the main body portion and closing the upper recess and the lower recess, a bolt extending through the main body portion and through the base for connecting the same; a pair of upper contacts on the base and extending into the upper compartment, a pair of lower contacts on the base and extending into the lower compartment, a single pair of contacts on the base and extending into the lower recess, all of said pairs of contacts being aligned with their respective pairs of slots, and connection means extending between and electrically connecting the pair of lower contacts and the pair of single contacts.

1,948,934

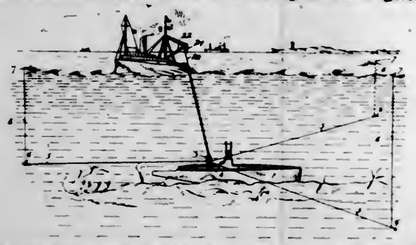
SUBMARINE AIRLOCK

John F. O'Rourke, New York, N. Y.

Application January 30, 1929. Serial No. 336,148
8 Claims. (Cl. 61—69)

1. In a device of the class described the combination of a vessel having a coaming provided with

an annular seat having a raised bead, a diving air lock comprising a body forming a chamber adapted to be submerged and to be brought into water-tight relation with said coaming, said chamber having an open bottom, concentric rings arranged around said open bottom with their edges spaced apart, and a compressible gasket

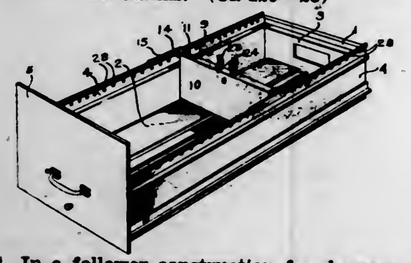


held between the edges of said annular rings, the bead on said coaming being adapted to register with and to project within the annular space between said rings to compress said gasket, the seat of said coaming being adapted to engage said annular rings after said gasket has been partially compressed by said bead.

1,948,935
FOLLOWER FOR FILING DEVICES

Benjamin G. Rand, North Tonawanda, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.

Application April 14, 1931. Serial No. 539,106
13 Claims. (Cl. 129—28)



1. In a follower construction for drawers and the like, the combination of a drawer having a bottom wall and side walls extending upwardly therefrom in spaced parallel relation, said side walls having guide members provided along the upper edges and a series of retaining elements below each of said guide members, a follower plate, spaced supporting and guide brackets attached to said follower plate and slidably embracing said guide members and supporting said follower plate for longitudinal movement in said drawer, and spring projected latch members carried by said follower plate and guide brackets for engagement with said retaining elements to normally retain said follower plate in an adjusted position against longitudinal movement.

1,948,936
PILE FABRIC

James F. Shaw, James M. Donnelly, and Joseph Johnston, Clinton, Mass., assignors to Bigelow-Sanford Carpet Co., Thompsonville, Conn., a corporation of Massachusetts

Application March 1, 1932. Serial No. 596,083
1 Claim. (Cl. 139—401)

As an article of manufacture a tuft pile carpet or rug having a tuft pile surface with the pattern of the pile surface reproduced on the back and comprising a series of stuffer warps laid in a single stuffer plane, two shots of weft above and one shot of weft below the stuffer warps to the weave cycle, a transverse row of tufts looped about a lower weft shot and extending upwardly between the two upper weft shots of that cycle, and two binder warps enclosing between them a stuffer warp at each side of a row of tufts and arranged so that the binder warps pass alter-

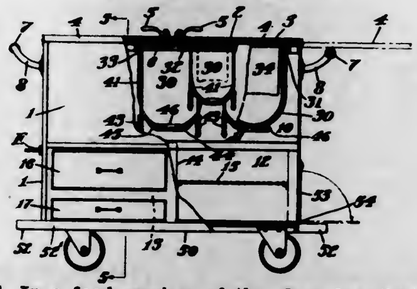


nately above the two upper weft shots one at each side of a tuft and below a lower tuft holding weft shot and cross each other directly between rows of pile forming tufts to pinch the tufts above the stuffer and cause the loop of the tufts to spread laterally and cover the contacting binder warp.

1,948,937
FOOD SERVICER

Charles J. De Muth, Boston, Mass., assignor, by mesne assignments, to Jones, McDuffee & Stratton Corporation, Boston, Mass., a corporation of Massachusetts

Application November 19, 1929
Serial No. 408,285
18 Claims. (Cl. 220—1)



1. In a food servicer of the class described, a walled compartment having an apertured top, an insulating frame member about said aperture, means for supporting a container from said frame, a cushion member adjacent the aperture of the top, a vacuum walled shell having an open upper end, and means depending from said top for resiliently supporting said shell with its end lip against said cushion, said means being suspended from said top.

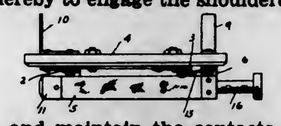
1,948,938
ELECTRIC SWITCH

Harvey B. Lawton, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a corporation of Illinois

Application February 1, 1933. Serial No. 654,565
1 Claim. (Cl. 200—122)

An electric thermal switch including two similar spaced apart bi-metallic contact carrying arms fixed at their corresponding ends to binding posts supporting said arms in parallel relation to each other irrespective of changes in atmospheric temperature, a contact mounted upon the free end of one arm and extending therebeyond with a shouldered insulating block secured upon the underside thereof terminating short of the exterior end of said contact, a spring member carrying a complementary contact and extending therebeyond mounted on the end of the other arm, said contact adapted to be engaged on one side by the end of the contact extending beyond the first arm, said spring member normally maintaining said contacts in engagement, an electric

heating element adjacent the first arm connected in series with the binding post of said arm in said switch circuit adapted when energized to cause the first arm to deform and move upward out of engagement with the spring carried contact whereupon said spring causes the contact carried thereby to engage the shouldered insulat-

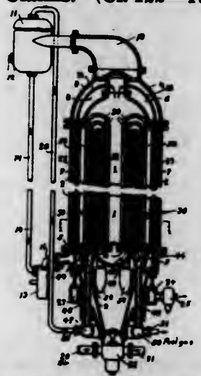


ing block and maintain the contacts separated, a spring pressed plunger mounted between said arms adapted upon depression to engage the contact carrying spring and move it outward allowing the first contact to resume its normal position and upon release of the plunger engage the side of the second contact.

1,948,939
STEAM SUPERHEATER

Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland

Application December 16, 1930, Serial No. 502,680
In Germany December 16, 1929
10 Claims. (Cl. 122—476)



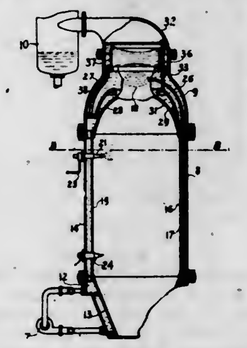
1. In combination with a steam generating device comprising a pressure-proof combustion chamber, means for supplying a combustible charge to said chamber and subjecting said charge to combustion in said chamber to produce high temperature combustion gases of high pressure, and heat-exchanger gas discharge duct means holding steam generating fluid and connected to said chamber to discharge said hot combustion gases for heating said fluid and produce steam, of a superheater for superheating said steam comprising a plurality of closely positioned interconnected tubes forming partition walls subdividing the space within the chamber into a plurality of compartments guiding the gases in parallel separated paths through said chamber.

1,948,940
STEAM GENERATOR

Walter Gustav Noack, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland

Application December 16, 1930, Serial No. 502,682
In Germany December 16, 1929
7 Claims. (Cl. 122—488)

6. In a steam generator, a receiving chamber, a water inlet duct, a set of water tubes between said inlet duct and said receiving chamber to circulate water to be evaporized from said duct to said chamber, means for passing hot combustion gases at high velocity in heat exchange relation to the water in said tubes to heat the same, pump and duct means connected between said receiving chamber and said inlet duct for im-

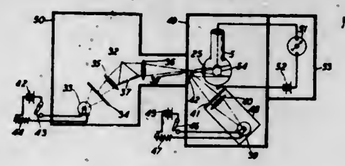


parting to water from said receiving chamber a high circulating velocity through said heater tubes into said receiving chamber, and means associated with said receiving chamber for imparting to the entering water impelled by the pump means a rotary movement separating the major part of the circulated water from the steam generated therein.

1,948,941
ELECTROOPTICAL SYSTEM

Albert B. Olpin, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 24, 1930. Serial No. 455,212
2 Claims. (Cl. 250—41.5)



1. In an electro-optical system, a photoelectric cell having an anode and a cathode, said cathode comprising potassium and bromine, means to illuminate said cell with visible light to cause an electron flow between said cathode and anode, and means to superimpose infra-red light on said visible light to reduce that portion of the electron flow due to visible light of wave length of 4200 Angström units.

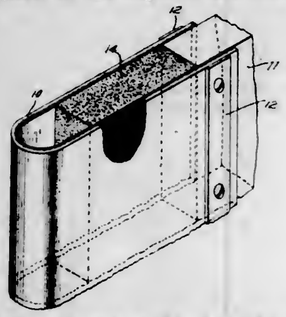
1,948,942
DOOR STRIP AND METHOD OF MAKING

Walter H. Ross, Ramsey, N. J., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey

Application July 31, 1931. Serial No. 554,225
2 Claims. (Cl. 20—69)

1. A flexible safety strip for doors, which comprises an open loop of rubber sheet and a filling of soft sponge rubber adhering throughout its length to the inside of said sheet at opposite sides of said loop near its open end and spaced

from the sheet in the bight of the loop, whereby



to leave a free space within said bight of the loop.

1,948,943

CONDITIONING PAPER FOR NITRATION

Milton O. Schur, Benjamin G. Hoos, and Thomas C. Morris, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a corporation of Maine

No Drawing. Application March 21, 1929
Serial No. 348,987
13 Claims. (Cl. 260—146)

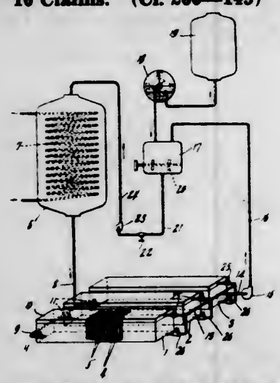
1. A process which comprises transferring waxy material from a transfer surface to the outermost fibers of paper, and nitrating the paper.

1,948,944

PROCESS OF PRODUCING NITROCELLULOSE

Milton O. Schur, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine

Application July 17, 1930. Serial No. 468,529
10 Claims. (Cl. 260—145)



1. A process which comprises steeping compact sheets of cellulose as a stationary batch in a bath of nitrating acid of the desired composition, and progressively feeding acid of said desired composition into the bath while progressively withdrawing acid from the bath as nitration proceeds.

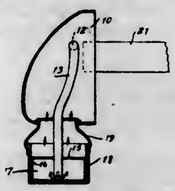
1,948,945

MASK FOR THE ABSORPTION OF POISONOUS GASES

Modesto Fernandez Seijo, Newark, N. J.

Application January 6, 1932. Serial No. 584,940
2 Claims. (Cl. 128—146)

1. In a device of the class described, a mask having an inhaling valve, and being formed with a vent, at one side of the vertical center line of the said mask, a receptacle attached to the latter, the said receptacle consisting of two parts detachably connected, a liquid disposed in the receptacle, a damper mounted in the latter, and



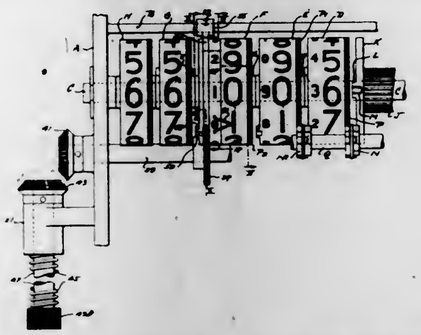
means for engaging the said damper, a tube extending from the said vent inside of the mask and down into the said receptacle, and means for securing said mask to the face of a person.

1,948,946

COMBINED ODOMETER AND OILING INDICATOR

James A. Smith and Ambrose E. Zierick, New York, N. Y.

Application July 31, 1929. Serial No. 382,458
5 Claims. (Cl. 235—95)



1. In an indicating device of the class described, the combination of a succession of interconnected counter-drums with numeral-sets in ascendency, an annular member having on its circumference a numeral set in descendency and riding in an independently turnable manner on one of the counter-drums, frictional coupling means connecting the annular member with its coordinate counter-drum, a toothing on the annular-member, a pinion meshing with the toothing and fastened on a shaft carrying a cog-wheel, a counter cog-wheel provided with hand-actuated operating means and adapted to mesh with the first-said cog-wheel, and a retractive spring keeping the two cog-wheels normally out of engagement.

1,948,947

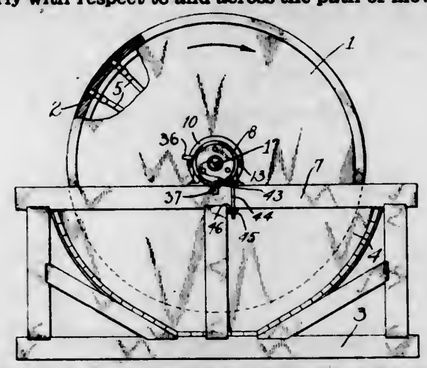
FILTERING APPARATUS AND PROCESS

George W. O'Keefe, New Rochelle, N. Y., assignor to Filtration Engineers, Inc., Newark, N. J., a corporation of New Jersey

Application November 8, 1929. Serial No. 405,601
13 Claims. (Cl. 210—202)

1. In a continuous rotating filter, means adapted to gradually increase the difference in pressure between the exterior and interior surfaces of the said filter comprising ports connected with the filter surface, and at least one collecting channel

having at least a portion thereof extending angularly with respect to and across the path of move-



ment of the ports from a point where the port is closed to gradually increase the port openings.

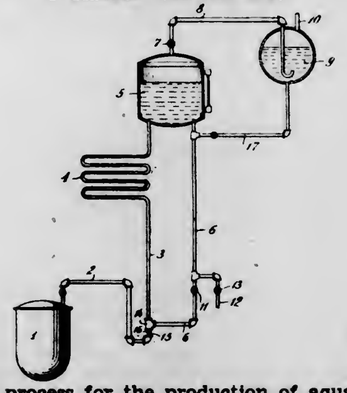
1,948,948

PROCESS FOR THE TREATMENT OF LIQUIDS

William L. Spalding, Westfield, N. J., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a corporation of New York

Original application October 5, 1925, Serial No. 60,442, now Patent No. 1,785,792. Divided and this application May 26, 1930. Serial No. 455,616

4 Claims. (Cl. 23—193)



1. A process for the production of aqua ammonia which comprises recirculating an aqueous liquid in a cyclic path comprising a confined flowing stream of said liquid and introducing ammonia into said flowing stream.

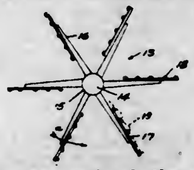
1,948,949

WEAR RESISTING BLOWER ROTOR BLADE

McKinley Stockton, Los Angeles, Calif., assignor to The Dicalite Company, Los Angeles, Calif., a corporation of Delaware

Application November 26, 1932
Serial No. 644,545
3 Claims. (Cl. 302—37)

1. A rotary blower including a housing, an impeller rotatably supported therein, said impeller having blades; an induction pipe by which air and suspended solid particles are introduced at the center of the housing and adjacent the axis of the impeller; an eduction pipe connected with the housing and arranged tangentially thereof, and ridges of arcuate section extending across the advancing faces of said blades for preventing



direct radial movement of the solid particles along the face of the blade.

1,948,950

WOODEN BUILDING CONSTRUCTION

Harry Donald Tiemann, Madison, Wis., dedicated to the free use of the Public

Application September 6, 1932. Serial No. 631,813
2 Claims. (Cl. 20—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



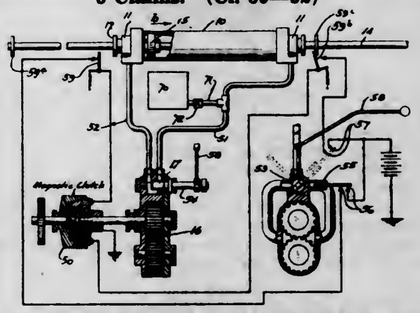
1. Constructional units built of a plurality of pieces of lumber in the form of box-like tiles, the vertical sides or partitions of which project in such a way as to interlock with similar units above and below in such a manner that they may be fastened together by means of the interlocking parts to form a wall; and that the uprights when the tiles are placed together are grouped into pairs forming vertical columns, the successive individual uprights in each half column being staggered with the successive individual uprights of the adjacent half column, so as to break joints and form a built up column; while at the same time the horizontal pieces which form the side or sides of the wall in the adjacent horizontal rows are also uniformly staggered respectively with the rows above and below, substantially as described.

1,948,951

HYDRAULIC POWER UNIT

Brooks Walker, Piedmont, Calif.

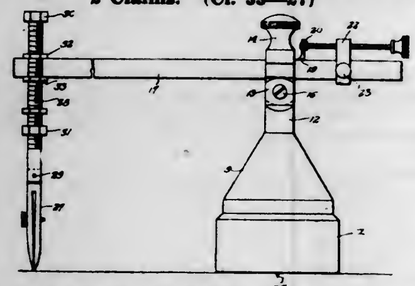
Application August 21, 1929. Serial No. 387,392
3 Claims. (Cl. 60—52)



1. A hydraulic power unit including a piston and a cylinder, a fluid pump for actuating said piston, said pump having an associated reversing valve for reversing the fluid flow to said cylinder, a power driven shaft for operating said pump, an electromagnetically actuated clutch for forming a connection between said pump and said power

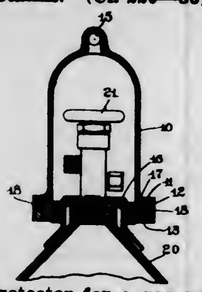
shaft, an electrical circuit for controlling said electromagnet including a switch which is actuated by the piston travel, and a second switch controlled by the valve mechanism, both switches acting to cause said clutch to only engage during one complete stroke for each position of said reversing valve.

1,948,952
GEOMETRICAL INSTRUMENT
Abel O. Wallerius, Laramie, Wyo.
Application March 22, 1932. Serial No. 600,516
2 Claims. (Cl. 33—27)



1. In a device for drawing circles, the combination of a main block and a revoluble block swivelly connected with the main block, a center needle mounted on the main block, a cap mounted on the revoluble block, and having a slot extending therethrough, a bar having an end extending through said slot, co-acting means on said cap and said bar for adjusting said bar laterally relative to said cap, and a marking instrument adjustably mounted on said bar.

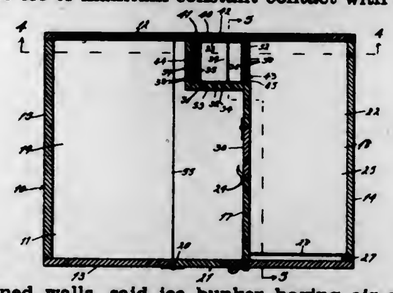
1,948,953
VALVE PROTECTOR FOR GAS CONTAINERS
Henry Wayer and Gebhard Jaeger, Columbus, Ohio
Application October 7, 1931. Serial No. 567,456
6 Claims. (Cl. 220—85)



1. A valve protector for a gas container having a neck provided with a ring, said ring having circumferential transversely separated external wedging elements, said protector having circumferential transversely separated internal wedging elements to engage said external wedging elements of the ring to removably secure the protector to said container, said protector having a wrench receiving element at its top to facilitate the turning of the protector.

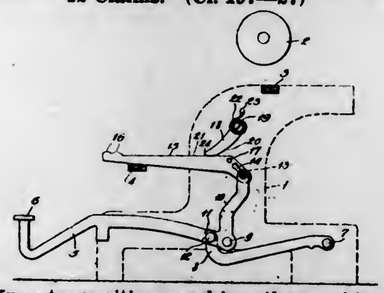
1,948,954
REFRIGERATOR TRUCK BODY
John Alvin Weiland, Phoenixville, Pa.
Application September 2, 1932. Serial No. 631,474
7 Claims. (Cl. 62—13)

1. A refrigerator truck body, comprising in combination, a truck body divided into two sections one of said sections having a door leading thereto from the outside of the body and the other section being accessible from the first mentioned section, an ice bunker located within the second mentioned section at a place distant from the door leading to the interior of the body, said bunker having inclined walls whereby gravity will cause ice to maintain constant contact with said



inclined walls, said ice bunker having air passageways along the inclined walls communicating at their lower ends with the lower portion of the second mentioned section and also communicating at their upper ends with the upper portion of said second mentioned section.

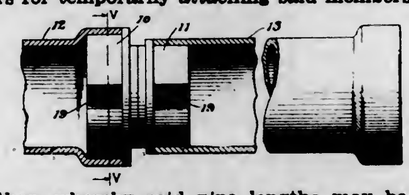
1,948,955
NOISELESS TYPEWRITER ACTION
Raphael Atti, Union City, N. J., assignor, by mesne assignments, to L C Smith & Corona Typewriters Inc., New York, N. Y., a corporation of New York
Application August 21, 1930. Serial No. 476,817
12 Claims. (Cl. 197—27)



5. In a typewriting machine, the combination of a type carrier, means for actuating said carrier, a platen with which said carrier is coactive to make a type impression when the carrier is actuated by said actuating means, and means interposed in the path of printing movement of the carrier to limit printing movement of the carrier without impact between the carrier and said limiting means.

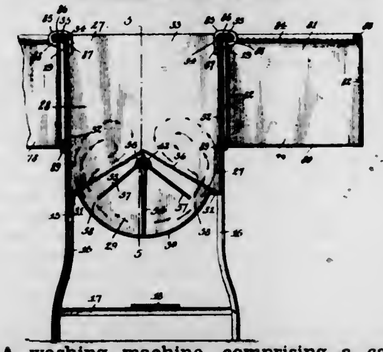
1,948,956
COUPLING FOR PIPE WRAPPING MACHINES
David W. Boylan, San Francisco, Calif., and Herman Kramer, Tulsa, Okla., and Emile Jansen, San Francisco, Calif., assignors to General Paint Corporation, San Francisco, Calif., a corporation of Nevada
Application September 11, 1929
Serial No. 391,758
6 Claims. (Cl. 285—1)

1. Means for detachably connecting pipes which are being fed through a wrapping machine, said means comprising a pair of complementary members, each of said members comprising a part dimensioned to fit easily within the ends of said lengths of pipes without distortion of said ends, means on said members for quickly attaching them to and detaching them from said pipe lengths, and means on said members for temporarily attaching said members to-



gether, whereby said pipe lengths may be attached one to another without distortion thereof and leaving the complete outer surfaces thereof exposed for treatment.

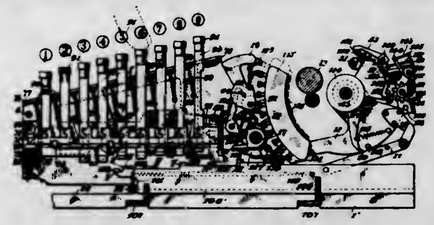
1,948,957
WASHING MACHINE
Harry W. Covert, Jamestown, N. Y.
Application August 15, 1929. Serial No. 386,143
14 Claims. (Cl. 68—37)



1. A washing machine, comprising a casing having a washing-compartment provided with an outwardly-extending reinforcing bead at its upper end, a chamber adjacent said washing-compartment having an inwardly-extending reinforcing bead, and retainer elements for said chamber embracing the upper ends of the walls of said washing-compartment and said chamber, each of said elements comprising a horizontal portion lying against the upper edges of said walls, a straight-lined depending end portion lying against the inner face of the wall of said washing compartment and a recurved opposite end wall encircling the inwardly-extending reinforcing bead of said chamber.

1,948,958
ADDING MACHINE FRAME CONSTRUCTION
Ralph C. Coxhead, New York, N. Y., and Charles W. Norton, Stratford, Conn., assignors, by mesne assignments, to Brunsviga Maschinenwerke Grimme Natalis & Co. A. G., Brunswick, Germany
Original application August 26, 1926, Serial No. 131,797. Divided and this application April 29, 1930. Serial No. 448,257
6 Claims. (Cl. 235—60)

1. In a machine of the character described, a main frame, a separable totalizer actuating section mounted on said main frame, said section comprising supporting plates, means mounted on said supporting plates for carrying a totalizer cradle, a cross rod between said supporting plates carrying a series of transfer pawls, another cross rod between said supporting plates carrying a series of transfer latches, a rod provided with shouldered ends for supporting a series of type carriers and totalizing actuator sectors, and means



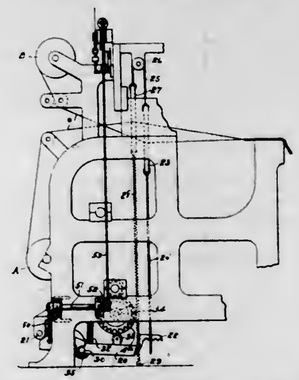
for anchoring said side plates to said shouldered ends of said rod to maintain portions of said side plate in substantially parallel relation.

1,948,959
COATING MATERIAL
Michele Croce, Boyer Road, Cheltenham, Pa., assignor, by mesne assignments, to Sloane-Blabon Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 26, 1927, Serial No. 228,978. Renewed December 14, 1933
5 Claims. (Cl. 134—39)

1. The method of making a coating material which comprises the solidifying of drying oil by oxidation and polymerization and dispersing the solidified oil in an aqueous vehicle.

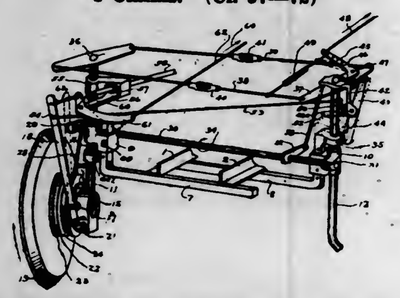
2. A liquid coating composition comprising a solidified oxidized and polymerized drying oil dispersed in an aqueous vehicle.

1,948,960
LOOM
Eddie A. Daniels, Kannapolis, N. C.
Application August 29, 1929, Serial No. 389,251
Renewed January 15, 1934
3 Claims. (Cl. 139—25)



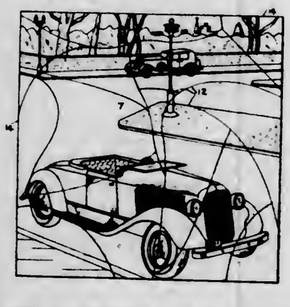
1. In a loom, a pivotally mounted treadle bar operatively connected with the loom harness, cams of different configuration mounted for rotation above the treadle bar, spring influenced fingers pivotally secured to the treadle bar in the path of the cams, slidingly mounted elements movable into and out of position to lock the fingers to the treadle bar, whereby engagement by the cams will move the bar pivotally, and means controlled by the operation of the pattern mechanism of the loom to control the position of the slidingly mounted elements.

1,948,961
PLOW
Enoch A. Davis, Marietta Township, Whatcom County, Wash., assignor to Edna Riffe, Marietta, Wash.
Application September 19, 1931, Serial No. 563,857
In Canada October 11, 1930
3 Claims. (Cl. 97—72)



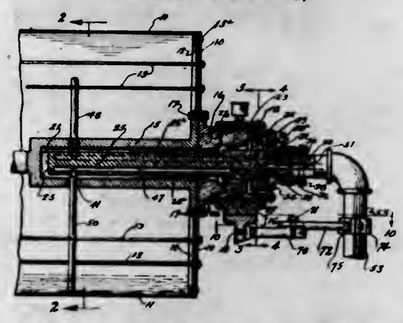
1. Mechanism of the character described including a substantially flat, rectangular, operatively horizontal framework, a bearing at right angles to the framework fastened on each corner thereof, a plurality of plow discs fastened on one edge of the framework, four L-shape auxiliary wheel axles having arms adapted for axles and stems mounted in the said framework corner bearings for vertical reciprocation and oscillation, a vehicle wheel mounted on each of the said wheel axles for revolution in a substantially vertical plane, a clutch fastened on one of the said vehicle wheels opposite the said plow discs, means to limit the downward movement of the framework on the stem of the axle of the said clutch wheel, mechanical connections between the said clutch and the said framework uptilting the plow edge of the framework about the ground contacts of the clutch wheel and that vehicle wheel disposed on the edge of the framework therewith by operation of the said clutch, manual means to engage the clutch for operation, automatic means to retain the framework and plows thereon in the said uptilted position, automatic means to limit the said uptilting of the framework by disengaging the clutch, and manual means to disengage the framework from said automatic retaining means for falling into operative position.

1,948,962
PICTURE PUZZLE
Ammiel F. Decker, Pelham, N. Y.
Application December 14, 1932
Serial No. 647,158
5 Claims. (Cl. 273—157)



1. In a cut up picture puzzle a central body portion having a complete picture on each side and means on the cut surfaces of each piece of said puzzle to definitely distinguish one picture surface from the other picture surface thereof.

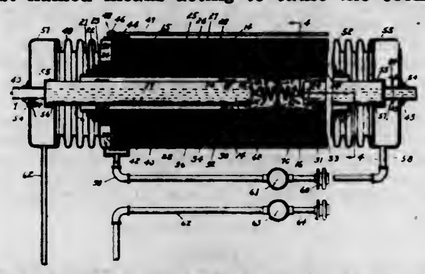
1,948,963
SIPHON SYSTEM FOR SLASHERS
Guy C. Dukes, Kannapolis, N. C.
Application February 10, 1930. Serial No. 427,401
2 Claims. (Cl. 34—4)



1. Means for extracting condensate from a steam heated cylinder comprising a hollow axially disposed member mounted in the cylinder and having an open end communicating with the exterior of the cylinder, said hollow member having perforations therein, a hollow hub member secured to the exterior of the cylinder in axial alinement with the hollow member in the cylinder, an elongated member having a flanged outer portion secured over the outer end of said hub portion and extending within the hollow member in the cylinder, said elongated member having a plurality of longtudinally disposed bores therein, and also having a transverse bore communicating with each longitudinal bore, a pipe secured in each of said transverse bores and extending through said perforations, a flanged hollow member secured to said outer hub and also secured to said elongated member, a second flanged hollow member disposed within the first flanged hollow member, means for fixedly mounting said second flanged hollow member, a packing joint between the two flanged hollow members, a valve stem mounted in said second flanged member, a disk having a plurality of openings of different sizes therein fixed on said valve stem and being disposed on the inner end of said valve stem, the openings in said disk being disposed in radial alinement with the bores in said elongated member, said second flanged member having a hole in its inner end coinciding with the openings in the said disk and means on the valve stem for adjusting said disk to thereby regulate the rate of discharge of condensate from the cylinder.

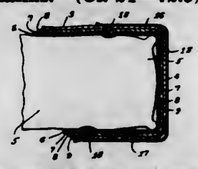
1,948,964
COOLING SYSTEM FOR ELECTRICAL CABLES
Frazer W. Gay, Newark, N. J., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application May 11, 1928. Serial No. 276,851
9 Claims. (Cl. 173—268)

1. A cable and cooling system therefor comprising, a hollow core and a sheath for each cable section, said sheaths having longitudinal ducts, means for causing a cooling medium to flow along the hollow core of one section of the cable to be cooled, and means for conducting said cooling medium to a duct in the sheath of the next succeeding section of said cable, said first named means acting to cause the cooling



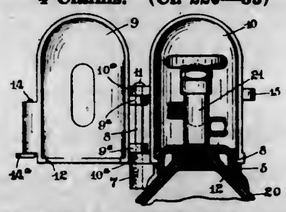
medium to flow along said duct in the latter section of cable.

1,948,965
SHEET, MATTRESS, AND BLANKET CLAMP
Harry B. Hart, Boston, Mass.
Application May 12, 1933. Serial No. 670,689
2 Claims. (Cl. 24—72.5)



1. As an improved article of manufacture, a combined sheet, blanket, and mattress clamp, comprising a one-piece unit of spring metal, having a U-shaped form with the extending arms tensioned to be normally disaligned and to be substantially parallel when in use.

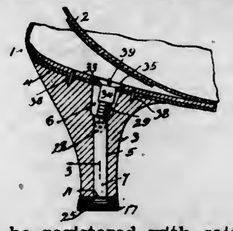
1,948,966
VALVE PROTECTOR FOR GAS CONTAINERS
Gebhard Jaeger, Columbus, Ohio
Application November 4, 1931. Serial No. 573,029
4 Claims. (Cl. 220—85)



1. A valve protector for a gas container, said container having a pin affixed thereto parallel to the axis of the container, said protector including two parts hinged on said pin and adapted to open from and close around said valve by movement parallel to the end of the container and means for latching said parts in closed position.

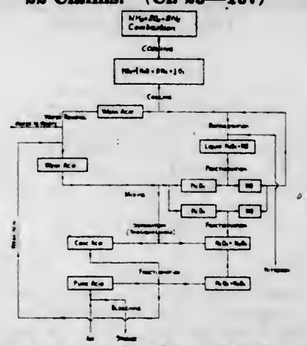
1,948,967
REMOVABLE SHOE HEEL AND LIFT
Bern Jassen, Brooklyn, N. Y.
Application May 29, 1933. Serial No. 673,412
17 Claims. (Cl. 36—42)

1. A lift attachment for an article of footwear including a heel having a bore, a sleeve extending upwardly in said bore, said sleeve having a slot in its lower end, a plunger movable in said sleeve and having a lift carrying plate adjacent the lower end of the heel, a spring in said sleeve for urging said plunger and plate upwardly to clamp a lift carried by said plate against the bottom of the heel, and means carried by said plunger,



adapted to be registered with said slot in the sleeve to allow the lift carried by said plate to be pressed against the bottom of the heel.

1,948,968
PREPARATION OF NITROGENOUS PRODUCTS
Gustav A. Kramer, Oakland, and Ludwig Rosenstein, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 8, 1931. Serial No. 555,998
22 Claims. (Cl. 23—157)



1. A process for treating gases containing nitrogen and oxygen, comprising: adding to said gases a quantity of NO in excess of that required to combine with the oxygen and subjecting the gases to fractional distillation at such a temperature and pressure that liquid oxides of nitrogen are produced as one end product and substantially pure nitrogen as the other.

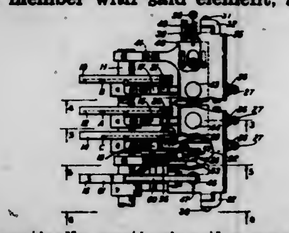
12. The steps of mixing liquid N_2O_4 with a limited amount of an aqueous medium so that two liquid phases form, removing the phase containing N_2O_4 and N_2O_3 and recovering therefrom N_2O_4 which is returned in the liquid state to the system with an aqueous medium.

16. In a process for the production of valuable products from the combustion of ammonia with an oxygen-containing gas, the steps of separating the water formed from the products of combustion and removing the oxides of nitrogen from elemental nitrogen by fractionating the resulting oxy-nitrogenous gas mixture in the presence of NO more than sufficient in amount to react with substantially all of the free oxygen present.

1,948,969
ELECTRIC SWITCHING DEVICE
Cuthbert C. Lane, Floral Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 14, 1930. Serial No. 452,160
10 Claims. (Cl. 200—33)

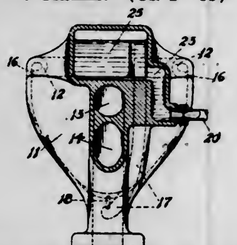
1. A switching device comprising a plurality of continuously rotating elements, a member in

engageable relation with each of said elements, a circuit changing contact controlled by said member, selective means for arbitrarily engaging said member with said element, and means



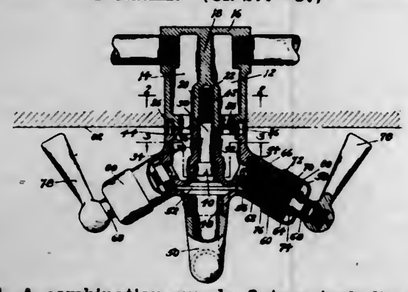
for automatically continuing the engagement of said arbitrarily selected member with said element and for releasing any other member from engagement with its respective element.

1,948,970
WATER CLOSET BOWL
Francis T. Meyer, Montclair, N. J., assignor to The Meyer-Sniffen Company, New York, N. Y., a corporation of New York
Application October 30, 1931. Serial No. 571,974
7 Claims. (Cl. 4—69)



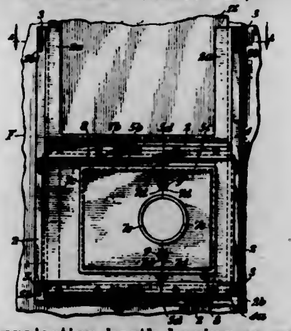
1. A water closet bowl having a rim, an outlet passage and a jet conduit associated with the latter, and a water supply line for said bowl and said jet conduit entering said bowl below the general level of said rim and including a flow-over edge and having a water supply inlet on one side thereof and communicating with both the interior of said bowl and with said jet conduit on the other side thereof, at least a portion of said rim being at a lower level than said flow-over edge.

1,948,971
COMBINATION FIXTURE
Francis T. Meyer, Montclair, N. J., assignor to The Meyer-Sniffen Company, New York, N. Y., a corporation of New York
Application January 20, 1932. Serial No. 587,615
4 Claims. (Cl. 277—57)



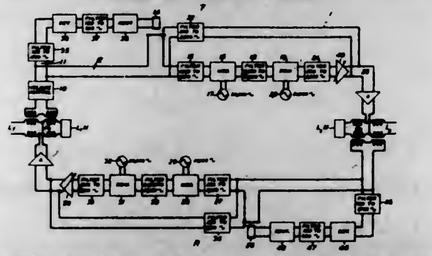
1. A combination supply fixture including an inlet portion and an outlet portion, each having a pair of passages, one passage in each portion aligning with a cooperating passage in the other, a central partition in each of said inlet and outlet portions in alignment with each other, said outlet portion having an opening, fastening means operable through said opening and passing through the partition of said outlet portion, said fastening means being associated with the partition of said inlet portion for holding said portions together, valves in said outlet portion controlling its passages, and a delivery nozzle for said outlet portion communicating with said last named passages by way of said valves.

1,948,972
COVER ARRANGEMENT FOR A PROJECTION BOOTH PORTHOLE
David F. Newman, Freeport, N. Y., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y., a corporation of Delaware
Application May 13, 1931. Serial No. 537,020
9 Claims. (Cl. 88—17)



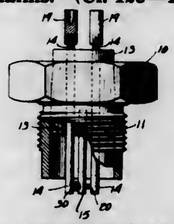
1. In a projection booth having an opening in a wall thereof for the passage of a projecting light beam emanating from a projector in said booth, and means forming a channel between the projection lens of said projector and said opening, said means comprising separate channel-forming members adjustable with respect to each other in a direction lateral with respect to the longitudinal axis of said projecting light beam.

1,948,973
WAVE TRANSMISSION WITH NARROWED BAND
John C. Steinberg, Sparta, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 10, 1932. Serial No. 616,435
6 Claims. (Cl. 178—44)



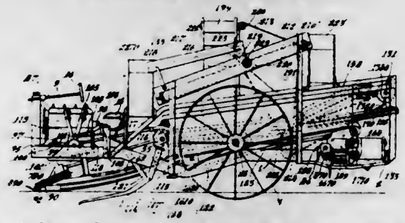
6. The method of separating vowel from consonant sounds comprising exploring speech waves to determine the presence of components rich in harmonics of the fundamental speech components as distinguished from components relatively lacking in such harmonics, and utilizing the energy of such harmonics to separate the speech components of simultaneous occurrence therewith from the speech components of a different time of occurrence.

1,948,974
IGNITION SYSTEM FOR COMBUSTION ENGINES
Paul Talmey, New Haven, Conn.
Application March 21, 1931. Serial No. 524,304
9 Claims. (Cl. 123—145)



7. An ignition system for internal combustion engines, comprising igniting the inflammable mixture by a continuously electrically preheated ignition element, controlling the current through this element by electrical resistance internal to the cylinder to further regulate the point at which ignition begins.

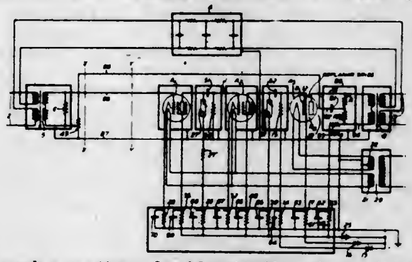
1,948,975
BEAN HARVESTER
William E. Urschel, Valparaiso, Ind.
Application February 23, 1929. Serial No. 342,032
16 Claims. (Cl. 56—19)



1. A bean harvester comprising the combination of means for brushing upwardly the lower portion of a bean plant, means for gripping the plant adjacent the ground, elevating means for lifting the plant from the ground, conveying means adapted to move the plant in a linear path in alignment with its course of travel through said elevating means for gripping the plant at its roots when elevated and holding said plant thereby, and means for hooking the pods from the plant while travelling in said linear path.

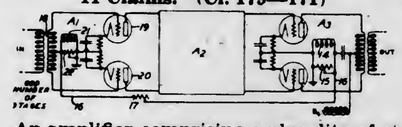
1,948,976
ELECTRIC WAVE AMPLIFYING SYSTEM
Ira G. Wilson, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1932. Serial No. 606,875
2 Claims. (Cl. 178—44)

2. A wave transmission system comprising a vacuum tube device having a grid, cathode means, an anode, a grid-cathode space path and an anode-cathode space path, an incoming circuit for supplying waves to said device to be transmitted thereby, an outgoing circuit for said device, a voltage dividing potentiometer resistance with adjustable connection to said incoming circuit, an attenuation equalizer network connected between said outgoing circuit and said potentiometer resistance and connecting a portion of said potentiometer resistance, said incoming circuit, said grid-cathode space path, said anode-cathode space path and said outgoing circuit in serial relation in the order named, means for supplying unidirectional biasing potential to said grid



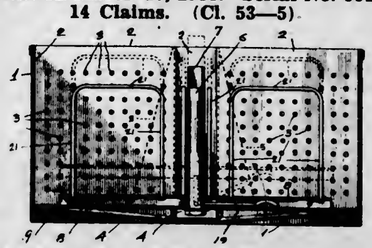
through a portion of said potentiometer resistance and through said incoming circuit, and means for supplying unidirectional potential to said anode through said outgoing circuit, said equalizer comprising a reactive network of series and shunt arms and having attenuation frequency characteristics dependent upon the impedances which it faces.

1,948,977
ELECTRIC WAVE AMPLIFIER
Charles B. Aiken, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 19, 1932. Serial No. 612,208
11 Claims. (Cl. 179—171)



1. An amplifier comprising a plurality of stages for amplifying a band of frequencies, space discharge devices arranged in push-pull relation in each stage, means in the common branch of the output circuits of one stage across which even order modulation products set up a substantial difference of potential, and means by which this difference of potential is impressed with substantially uniform phase relation over the entire frequency band, on one of the common branches of a preceding stage.

1,948,978
TOASTER
Frederick Bendix and Max Bloch, San Francisco, Calif.
Application March 17, 1933. Serial No. 661,244
14 Claims. (Cl. 53—5)



1. A toaster comprising a hollow member open at the top and having radial compartments with perforate side walls; and a housing supporting said hollow member and having an open bottom

and converging walls engaging the top of said hollow member and closing the top of said housing whereby heat entering said open bottom may be directed by said converging walls through the perforate sides of said hollow member to evenly and uniformly toast bread therein.

1,948,979
WEATHER RESISTING MATERIAL

Philip W. Codwise, Kenmore, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a corporation of Maryland

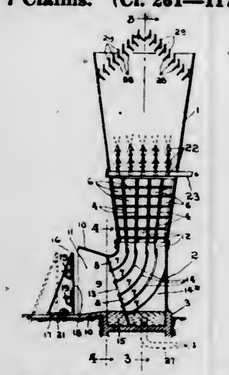
No Drawing. Application June 27, 1932 Serial No. 619,522 12 Claims. (Cl. 92—3)

1. As an article of manufacture a weather resisting material comprising a sheet of felt containing a substantial amount of soda pulp, and a water proofing saturant impregnating said felt.

1,948,980
COOLING TOWER

Barton H. Coffey, Elizabeth, N. J., assignor to The Cooling Tower Co. Inc., New York, N. Y., a corporation of New York

Application August 22, 1930. Serial No. 477,007 7 Claims. (Cl. 261—117)

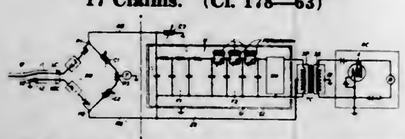


1. In a mechanical draft cooling tower, the combination of a plurality of vertical diverging tubular draft passages within the tower and terminating in curved passages at their lower ends, means for delivering a current of air at the lower ends of the passages, said means comprising an air inlet adjacent the base of the tower, a fan adjacent the said inlet and spaced therefrom, and means for adjustably positioning said fan toward and from said air inlet, means for delivering spray above the draft passages, and means for collecting the water at the base of the tower.

1,948,981
DUPLEX COMMUNICATION SYSTEM

Austen M. Curtis, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 13, 1930, Serial No. 481,668 In Portugal October 24, 1929 17 Claims. (Cl. 178—63)

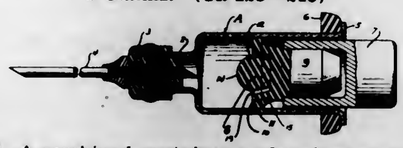


1. The combination in a signaling channel of a selective network including a plurality of non-inductive sections followed by a selective network including a plurality of substantially distortionless sections each having an inductance with a magnetic core, each of said networks having shunt capacities included in their sections.

1,948,982
HYPODERMIC SYRINGE

Robert K. Cutter, Berkeley, Calif., assignor to The Cutter Laboratory, Berkeley, Calif., a corporation of California

Continuation of application Serial No. 469,447, July 21, 1930. This application August 15, 1932. Serial No. 628,790 2 Claims. (Cl. 128—218)



1. A combined container and syringe comprising a barrel and a soft, flexible, resilient, elastic member therewithin, said member having a rearward portion the periphery of which is substantially smaller than the inner periphery of said barrel to form a manipulating shank adapted to accommodate a manipulating handle, an annular outwardly flaring portion on the forward end of said shank having an outer periphery substantially smaller than the inner face of said barrel except where said portion engages therewith and an integral annular contact portion on the forward end of said flaring portion and extending forwardly therefrom, the outer periphery of said contact portion being normally slightly larger than the inner face of said barrel, both said annular portions being throughout of substantial thickness sufficient to maintain a continuous contact between said contact portion and said barrel during shipment and storage and also to prevent curling back to maintain a continuous ring of contact between said contact portion and said barrel on pushing said member forwardly.

1,948,983
WEED RESISTING FISH LURE

Anthony Danielczuk, Detroit, Mich.

Application January 26, 1933. Serial No. 653,605 3 Claims. (Cl. 43—39)



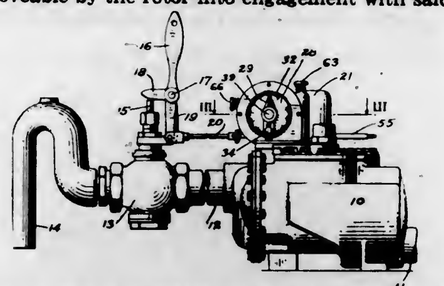
1. In a weed-resisting fish lure, a front unit for same, said unit consisting of a substantially pear-shaped body, a tube passing longitudinally through the body, said body having a reinforced front end and a flanged sleeve passing through said end, one end of the aforesaid tube passing through said sleeve, said tube and sleeve being for the purpose of rigidly supporting the aforesaid body.

1,948,984
AUTOMATIC CONTROL FOR FLUID METERING SYSTEMS

Albert J. Granberg, Berkeley, Calif., assignor to Ralph N. Brodie Company, Oakland, Calif., a corporation of California

Application May 2, 1932. Serial No. 608,646 4 Claims. (Cl. 221—101)

1. A measuring and shut-off device for a fluid meter and control valve which comprises a rotor rotatable upon operation of the meter, means for holding the control valve open, releasing means adjustably set with relation to the rotor and moveable by the rotor into engagement with said

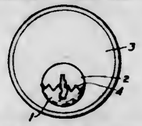


holding means to release the same and permit the control valve to close, and means actuated by closing of the control valve to return said releasing means to the position at which it was set.

1,948,985
KEY INDICATOR

Patrick H. Howe, Springfield Gardens, N. Y.

Application October 6, 1932. Serial No. 636,478 2 Claims. (Cl. 40—2.2)

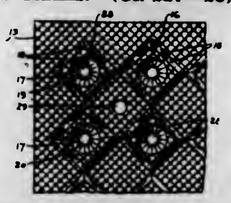


1. A lock having a raised portion adjacent one end of the key slot, the edge of said raised portion formed in an irregular line to correspond with the irregular edge of the key and projecting outward.

1,948,986
EGG CUSHION

William K. Jaquith, Petaluma, Calif.

Application March 23, 1931. Serial No. 524,451 8 Claims. (Cl. 217—26)



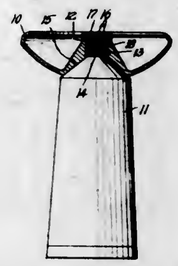
1. A cushion pad for egg carriers, comprising a sheet of flexible material having portions upraised from the plane of said sheet, providing a top supported by depending side walls which are diagonally disposed with relation to the perimetral edges of the sheet, said top being provided with a pocket adapted to receive a portion of an egg.

1,948,987
SHAVING RECEPTACLE

Henry Charles Laufe, Bogota, N. J.

Application September 26, 1932 Serial No. 634,869 3 Claims. (Cl. 45—136)

1. A device as characterized comprising a bowl, a neck integral with said bowl, said neck providing a chamber and having means for receiving and attaching the nipple of a tube of cream to said bowl, a disk in said chamber and resting against the bottom of the chamber in normal position, said neck having a plurality of holes above the disk to permit passage of cream under pressure from said tube to said bowl by lifting

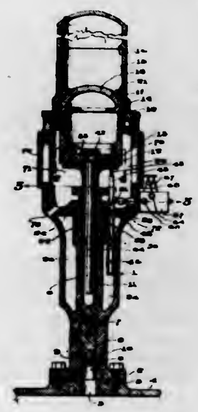


said disk clear of the holes whereby a measured quantity of cream will be extruded into the bowl, and other means in said chamber and above the disk for returning the disk to normal position as pressure is released from the tube.

1,948,988
LIQUID PRESSURE EQUALIZER

James A. Lupfer, Tulsa, Okla.

Application June 4, 1932. Serial No. 615,346 14 Claims. (Cl. 137—71)



2. In a pressure equalizer, a casing, a liquid plunger therein, an air cylinder in said casing, an air plunger movable in said cylinder and movable with the liquid plunger, valves for controlling the pressure of air in said cylinder, stems on said valves, and means operated by movement of said plungers and engaging said stems for operating said valves.

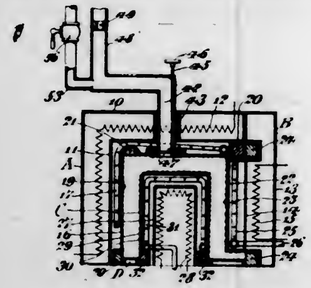
1,948,989
PROCESS OF AND APPARATUS FOR MOLDING ARTICLES

John McEwan, Trenton, N. J., assignor of one-half to James J. Kelly, Trenton, N. J.

Application May 21, 1932. Serial No. 612,661 9 Claims. (Cl. 25—129)

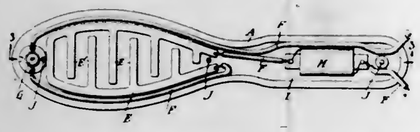
2. The process of molding an article consisting in introducing into a mold cavity surrounded by a fabric supported by a foraminous wall a semi-

liquid material, maintaining a heated chamber spaced from the foraminous wall, and circulating



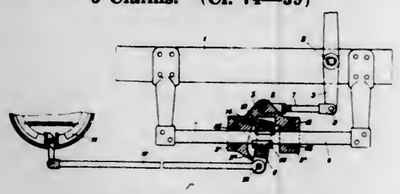
air within the space between the foraminous wall and the heated chamber.

1,948,990
HAIR BRUSH
Anton Mitlehner, College Point, N. Y.
Application October 18, 1930. Serial No. 489,555
3 Claims. (Cl. 174—89)



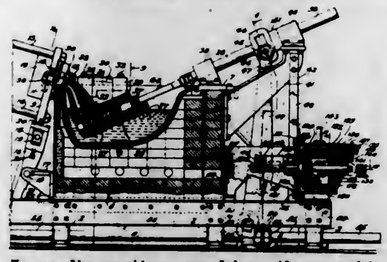
1. A brush of the character described having metal bristles, a metal conductor arranged to bear in electrical contact against the inner ends of said bristles, a resistance device connected to each end of the conductor and wires connecting the resistance devices to an external source of electric current supply to complete a circuit thru said conductor.

1,948,991
BRAKE LEVER CONSTRUCTION
Hans Molly, Friedrichshafen, Germany, assignor to Zahnradfabrik Friedrichshafen Aktiengesellschaft, Friedrichshafen, Germany
Application February 16, 1933, Serial No. 657,016
In Germany March 4, 1932
6 Claims. (Cl. 74—39)



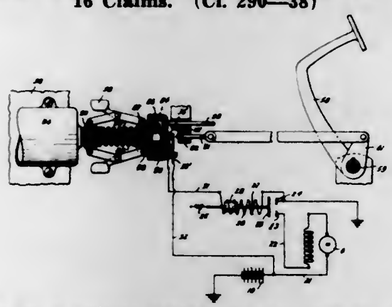
1. A brake lever construction comprising; a bar; a member having an aperture fitting around said bar; a connecting rod leading to the brake and being pivoted to said member at a distance from said aperture; a guiding element adapted to slide along said bar, said element having two portions, one of said portions being adapted to move said member in the direction for actuating the brake; the other portion being adapted to move said member in the brake-releasing direction; an operating lever; and a connecting link between said operating lever and said element.

1,948,992
DIE-CASTING MACHINE
Louis H. Morin, New York, N. Y., assignor to Doehler Die-Casting Co., a corporation of New York
Application January 8, 1931. Serial No. 507,394
12 Claims. (Cl. 22—70)



1. In a die-casting machine, the combination of a positive delivery pump for forcing molten metal into a mold to fill the latter, a movable operating part of the machine, connections between the said part and the movable member of the pump for operating the latter, and a hydraulic pressure relief device embodied in the said connections and responsive to a predetermined maximum pressure of molten metal on the movable member of the pump to stop the delivery movement of the latter.

1,948,993
ENGINE CONTROLLING APPARATUS
Romeo M. Nardone, East Orange, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application June 22, 1932. Serial No. 618,790
16 Claims. (Cl. 290—38)

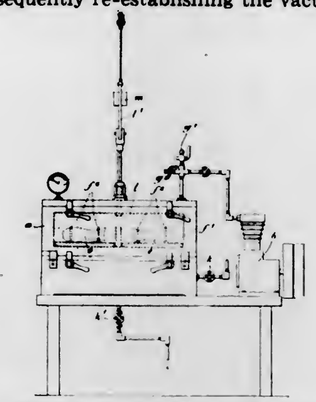


16. In a control system for an internal combustion engine, a source of current supply, a motor energized from said source and operative to crank the engine, an electro-magnetic device operative to control the energization of said motor, a circuit from said source to said electromagnetic device, a single switch in said circuit, a clutch actuating lever, means responsive to movement of said clutch lever for closing said switch, and engine responsive means for moving said switch out of range of action of said switch closing means.

1,948,994
PROCESS FOR THE TREATMENT OF LEATHER OR LIKE MATERIAL
Horace Stanley Pochin, Leicester, England
Application May 28, 1932, Serial No. 614,236
In Great Britain June 16, 1931
1 Claim. (Cl. 12—146)

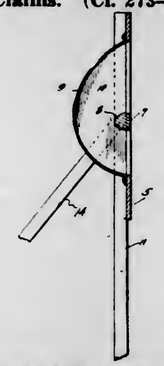
A process for the tempering of leather which comprises subjecting the leather to vacuum and

immersing the same in water while under vacuum, breaking the vacuum during immersion and subsequently re-establishing the vacuum be-



fore immersion is completed and finally withdrawing the leather from the water and gradually breaking the vacuum.

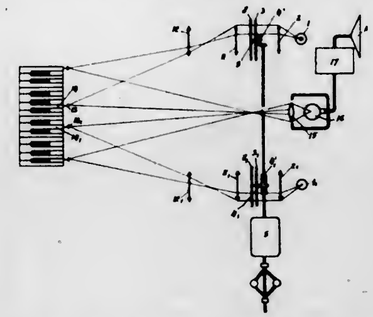
1,948,995
AMUSEMENT APPARATUS
Charlie S. Regenold, Sr., Memphis, Tenn.
Application December 21, 1932
Serial No. 648,306
3 Claims. (Cl. 273—103)



1. In an amusement apparatus of the class described, a plate having an aperture therein, a rigid backing plate secured to one side of the first named plate above and below said aperture, said plate being of arcuate formation, and sides extending between the curved edges of the backing plate and the first named plate at opposite sides of the aperture; and a cross bar extending across the aperture in the first named plate adjacent the lower edge of said aperture.

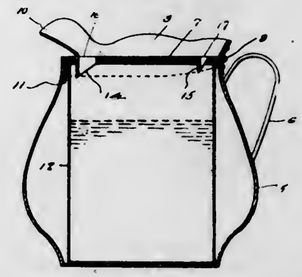
1,948,996
MUSICAL INSTRUMENT WORKING THROUGH A KEYBOARD AND A PHOTO-ELECTRIC CELL
Pierre Marie Gabriel Toulon, Puteaux, France, assignor to Sté de Recherches et de Perfectionnements industriels, Puteaux, France, a company of France
Application May 14, 1928, Serial No. 277,667
In France May 19, 1927
6 Claims. (Cl. 84—1)

1. A mus.cal instrument comprising a plurality of keys and stops, a source of light, a photoelectric cell without inertia, an acoustic receiver actuated by the variations of current in said cell, means actuated by the keys to cause beams of light coming from the source to impinge on the cell, in the path of said light beams, windows, rotating discs with concentrical series of slots, the distance from one slot to the next one and the



dimensions of the windows being such that one beam begins to impinge on the cell just at the moment when the next one leaves it, means to rotate the discs at uniform speed, means for interposing in the path of the light beam, screens modulating according to any predetermined law the amount of light passing through them, while they are swept by the light beam.

1,948,997
DEVICE FOR FACILITATING THE USE OF A CAN CONTAINING EVAPORATED MILK OR THE LIKE
Vincent Vaverek and Joseph Heline, Pontiac, Mich.
Application July 12, 1933. Serial No. 680,146
1 Claim. (Cl. 65—61)



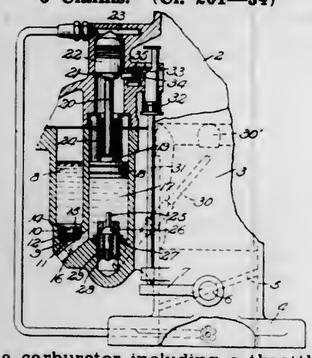
A device of the class described comprising an open top container for receiving a can, a flat lid for the container, an annular ring depending from the lid to telescope inside the upper end of the container and to be disposed about the upper end of a can in the container, said ring being slightly spaced inwardly from the periphery of the lid and said lid having a pair of openings therein arranged diametrically opposite each other and spaced inwardly from the ring, a pair of cutting elements depending from the lid adjacent the openings, a flange rising from the lid, a hinge connecting a part of the flange to a part of the container, a portion of the flange forming a spout which is located diametrically opposite the hinge, said spout receiving the liquid flowing from that opening which is remote from the hinge, the other opening being located adjacent that part of the flange to which the hinge is connected.

1,948,998
ROTARY SEPARATOR
Hans Albrecht Freiherr von Rechenberg, Cologne, Germany
Application November 4, 1931, Serial No. 572,988
In Germany November 4, 1930
2 Claims. (Cl. 209—95)



1. In the process for separating grain from weed seeds which comprises supporting a certain mass of grain on the inside of a cylindrical surface having cavities for receiving the seeds, rotating said cylindrical surface about its axis at a speed sufficient to cause the lower layers of the mass of grain to be carried upwards on the rising zone of said surface to a point from which they will cascade downwardly over said lower layers, the step of positively engaging and throwing grain particles carried downward within said cascade to a point beyond the lowermost portion of said surface without interfering with the upward movement of said layers.

1,948,999
CARBURETOR
Brayton W. Westcott, Detroit, Mich., assignor to Zenith-Detroit Corporation, Detroit, Mich., a corporation of Michigan
Application September 22, 1931
Serial No. 564,288
6 Claims. (Cl. 261—34)

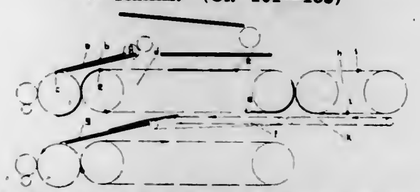


1. In a carburetor including a throttle, a fuel pump responsive to pressure conditions on one side of the throttle for effecting an increase in fuel flow to the carburetor, and throttle operated means for rendering said fuel pump inoperative, said means being so constructed and arranged as to be capable of rendering said fuel pump inoperative only when the pump is in predetermined position.

1,949,000
PROCESS FOR RECUPERATING ROSIN SIZE ALREADY APPLIED TO PAPERS
Shigenari Yano, Fujimachi, Fujigun, Shizuokaken, Japan
No Drawing. Application September 16, 1932
Serial No. 633,543
2 Claims. (Cl. 92—1)

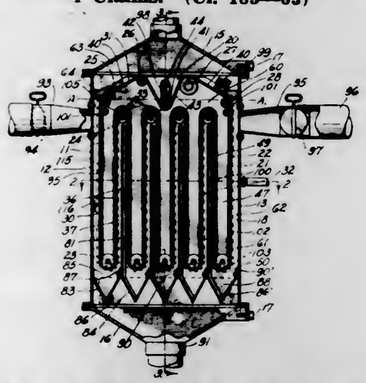
1. Process for recuperating the rosin size applied to papers characterized by the fact that rosin-sized paper is submitted to steaming at 55–100° C. whereby the rosin size is simultaneously affected by damping action as well as warming action.

1,949,001
MONOCHROME AND POLYCHROME PRINTING
Karl Albrecht, Geisenheim-on-the-Rhine, Germany, assignor to Maschinenfabrik Johannisberg, G. m. b. H., Geisenheim-on-the-Rhine, Germany
Application June 18, 1931, Serial No. 545,299
In Germany June 10, 1930
4 Claims. (Cl. 101—183)



1. Apparatus for the production of monochrome and polychrome printing on one or both sides of a sheet in one operation, comprising the combination of a plurality of rotary printing mechanisms, sheet feeding means for each of said printing mechanisms, sheet transfer means interposed between the printing mechanisms and arranged to withdraw the sheet from one printing mechanism, conveying means arranged to receive the sheet withdrawn from the said printing mechanism and convey it to the sheet feeding means of the next printing mechanism to receive a second impression on the same side, with sheet reversing means arranged to withdraw the sheet from the sheet transfer means, in the opposite direction to the direction of conveyance of the sheet by the said conveying means and delivering the sheet inverted to the sheet feeding means of the next printing mechanism with the leading edge of the sheet to the rear to enable the next printing mechanism to print the sheet on the reverse side.

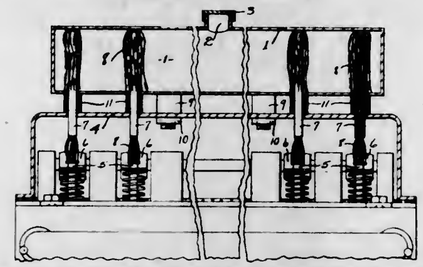
1,949,002
SELF-CLEANING DUST COLLECTOR
Emmett F. Annis, Glendale, Calif.
Application March 15, 1932. Serial No. 598,949
4 Claims. (Cl. 183—63)



1. A dust collector of the character described, including: a filter member in the form of a belt in a continuous loop; a housing having a wall structure surrounding said filter member, said

housing comprising primary and secondary parts, said filter member dividing the interior of said housing into an inner and an outer space; primary rollers supporting a portion of said filter member in the primary part of said housing, said primary rollers being so placed as to determine a sinuous path for said filter member in said primary part of said housing; secondary rollers supporting a portion of said filter member in the secondary part of said housing; sealing walls at the sides of said housing, said sealing walls overlapping the edges of the part of said filter member in said secondary part of said housing, each of said sealing walls having a channel therein in which a suction is created to hold said edges of said filter member in engagement with said sealing walls; means for moving said filter member; means for directing a fluid to be cleaned through said primary part of said housing outside of said filter member; and means for varying the pressure in said secondary part of said housing adjacent the outer face of said filter member, to cause fluid to pass through said filter member.

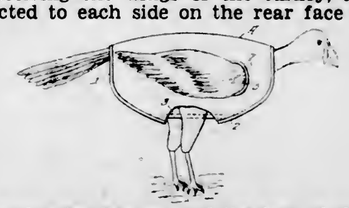
1,949,003
OVERHEAD VALVE OILER
Guy L. Baughman, Mulvane, Kans.
Application February 23, 1932. Serial No. 594,409
1 Claim. (Cl. 184—6)



In an overhead valve oiler, in combination with an internal combination engine rocker arm cover, the cover having a plurality of apertures spaced apart and aligned longitudinally thereof, a cylindrical tank having a centrally disposed apertured neck and cap therefor thru which the tank is filled with lubricant and sealed, a plurality of conduits positioned in the tank and extending therefrom radially and spaced to register with the apertures in the cover loosely engaging therethru, and a wick in each conduit, the conduits diametrically crossing the tank with the upper ends thereof in close proximity to the wall of the tank as frictional engaging means to retain the wick against longitudinal movement in the conduit, a stud secured to the tank near each end thereof, the outer end of the stud reduced and threaded as attaching means to the cover and spacing for the tank therefrom, each conduit having a fiberous washer snugly engaging thereon to conceal the exposed portion of the conduit and to avoid sediment passing thru the apertures in the cover, all as and for the purpose specified.

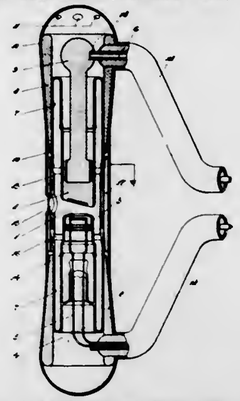
1,949,004
BREEDING JACKET
George P. Boardman, Fillmore, Calif.
Application March 31, 1931, Serial No. 526,747
Renewed October 10, 1933
1 Claim. (Cl. 119—143)

A breeding jacket for turkeys and the like comprising a body formed of canvas or the like having rounded side portions and straight front and rear portions, and having a pair of openings in the front part thereof, one adjacent each side, for receiving the wings of the turkey, a strap connected to each side on the rear face of the



body and extending around the legs of the turkey, said strap being slightly spaced from the central portion of the rounded side and binding strips extending around the body and around the walls of the openings.

1,949,005
X-RAY TUBE
Albert Bouwers, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a limited liability company of the Netherlands
Application March 25, 1927, Serial No. 178,457
In the Netherlands April 19, 1926
21 Claims. (Cl. 250—34)

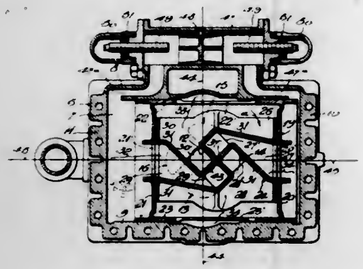


1. An X-ray tube having electrodes and a wall comprising a metallic part which is insulated from said electrodes by means of insulating parts, the tube being closely surrounded by a metal envelope which is designed to be connected to ground and is rounded opposite the ends of the tube, the rounded part of said metal envelope adjacent the anticathode having substantially the same center of curvature as the adjacent rounded end of the anticathode and being provided with cooling apertures.

1,949,006
METER ADJUSTING MEANS
Walter S. Brubaker, San Francisco, Calif., assignor to Granberg Meter Corporation, San Francisco, Calif., a corporation of California
Application June 22, 1932. Serial No. 618,760
4 Claims. (Cl. 73—30)

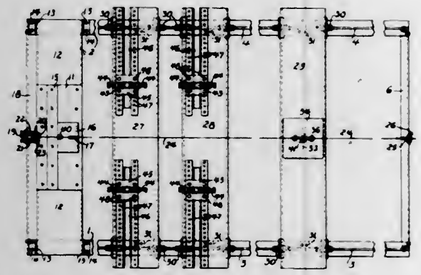
1. In a meter, a piston member and means for confining it to predetermined extents of movement, and means complementary with said piston member in forming two chambers one of which expands and admits fluid while the other is contracting and discharging fluid, and vice-versa, said chambers having valve-controlled inlet and outlet means, said complementary means includ-

ing a meter casing, a conduit whose ends are in permanent communication with said chambers respectively, a partition in said conduit movable



by means of the pressure difference between said chambers during inletting of one and outletting of the other, and adjustable means for limiting the pressure-effected movements of said partition.

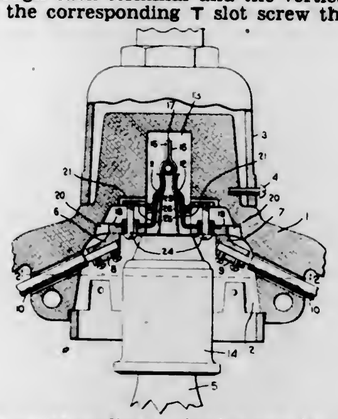
1,949,007
ALIGNMENT JIG
Leo M. Butler, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Washington
Application March 31, 1931. Serial No. 526,638
16 Claims. (Cl. 33—174)



1. An apparatus of the class described comprising a frame of parallelogram formation, carriages movably mounted on said frame, means adjustably mounted with respect to said carriages for supporting an airplane fuselage, another carriage also movable on the frame and provided with marks indicating the center line of said frame, said last mentioned carriage being in movable parallelism with a fixed center line of the apparatus.

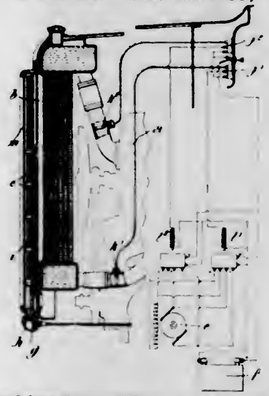
1,949,008
RECEPTACLE HEAD FOR ELECTRIC LIGHTS
Charles M. Cole, South Weymouth, Mass., assignor to Wheeler Reflector Company, Boston, Mass., a corporation of Massachusetts
Application April 1, 1932. Serial No. 602,442
6 Claims. (Cl. 173—328)

1. An electric light fixture comprising a receptacle head provided with a downwardly-opening socket-receiving chamber and an upwardly-directed extension thereof, said head also having two terminal-receiving recesses formed in the roof of said chamber and a T slot communicating with each recess and opening at its end into the chamber extension, a wiring terminal in each recess, an anchoring plate in the transverse portion of each T slot, and a clamping bolt extending through each terminal and the vertical portion of the corresponding T slot screw threaded



into the corresponding anchoring member, thereby to clamp the terminal member in said recess.

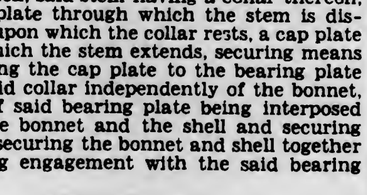
1,949,009
THERMOSTATIC RADIATOR CONTROL
Jean Georges Dintilhac, Paris, France, assignor to Society "Yacco S. A. F.," Paris, France
Application October 11, 1932, Serial No. 637,349
In Belgium August 23, 1932
2 Claims. (Cl. 236—35)



1. In combination with a motor provided with a radiator adapted to contain a cooling fluid, a threaded shaft, a shutter provided with a nut threadedly engaging with said shaft, said shutter being positioned to move in front of said radiator, a motor connected in driving relation to said threaded shaft, a thermometer positioned to respond to variations in the temperature of the cooling fluid circulating through said radiator, and an electric switch controlled by said thermometer and controlling said motor.

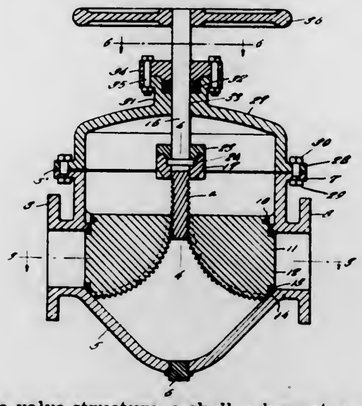
1,949,010
SANITARY CONTAINER
Robert A. Dougherty, San Francisco, Calif.
Application March 27, 1933. Serial No. 663,038
2 Claims. (Cl. 312—73)

1. A device of the class described comprising a container composed of bottom, front and rear walls, end walls and a top wall, said top wall having an opening therein, the upper edge of the rear wall terminating an appreciable distance below the plane of the top wall and the rear edge of the top wall terminating an appreciable distance from the plane of the rear wall, a substantially semi-circular wall connecting the rear edge of the top wall with the upper edge of the rear wall, said semi-circular wall extending inwardly, a lid



for covering the opening in the top wall, the rear edge of said lid being rolled to form a cylindrical part which depends from said rear edge of the lid and slidingly and rotatably engages the semi-circular wall to slidably and hingedly connect the lid with the upper rear corner of the container.

1,949,011
GATE VALVE
John T. Fahey, Oil City, Pa.
Application November 17, 1932
Serial No. 643,114
1 Claim. (Cl. 251—48)



In a valve structure, a shell, a bonnet, a rotary valve stem extending through the bonnet and into said shell, said stem having a collar thereon, a bearing plate through which the stem is disposed and upon which the collar rests, a cap plate through which the stem extends, securing means for attaching the cap plate to the bearing plate over the said collar independently of the bonnet, the ends of said bearing plate being interposed between the bonnet and the shell and securing means for securing the bonnet and shell together in clamping engagement with the said bearing plate.

1,949,012
METHOD OF PREPARING TOBACCO FREE FROM NICOTINE
Leonhard Frank, Berlin-Wilmersdorf, Germany, assignor to Generaldirektion der Österreichischen Tabak-Regie, Vienna, Austria, an Austrian Government undertaking
No Drawing. Application March 24, 1932, Serial No. 601,052. In Germany March 27, 1931
2 Claims. (Cl. 131—6)

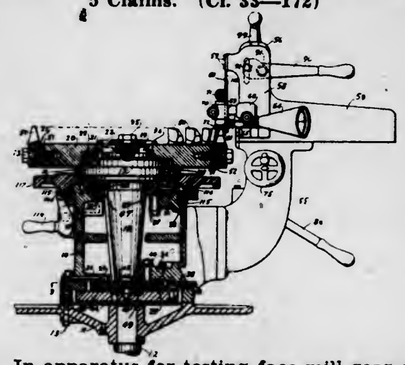
2. The method of preparing tobacco free from nicotine comprising treating the tobacco with an organic solvent for nicotine until the nicotine is substantially extracted, removing the nicotine from the extract with an acid aqueous washing liquid, steam distilling the washing liquid, shaking the distillate with the original extraction solvent, and combining any aromatic substances thus obtained and the other nicotine free extracts with the treated tobacco.

1,949,013
LIP-SHIELD
Archibald R. Gilchrist, Los Angeles, Calif.
Application December 10, 1932
Serial No. 646,638
3 Claims. (Cl. 2—174)



1. A lip-shield including a cover that is elliptical in form and having concave and convex sides, said cover comprising overlapping semi-elliptical portions, flaps integral with said portions that are arranged oppositely to one another so they can be drawn over and secured to said semi-elliptical portions to hold them in position to form said cover, and a tongue integral with said cover that is extended outwardly and centrally from the concave side thereof so said tongue can be engaged by a person's teeth to hold said cover over, but out of contact, with said person's painted lips.

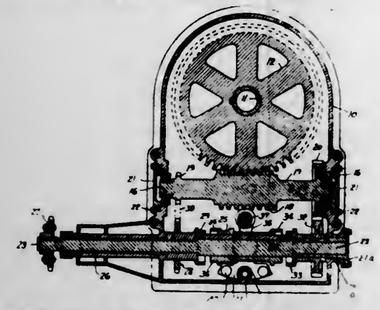
1,949,014
CUTTER TRUING FIXTURE
James E. Gleason and Schuyler H. Earl, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a corporation of New York
Application July 24, 1930. Serial No. 470,443
5 Claims. (Cl. 33—172)



1. In apparatus for testing face mill gear cutters, a rotatable spindle adapted to carry a cutter to be tested, a support in which said spindle is journaled, a slide mounted on said support for adjustment thereon in a direction radial of said spindle, manually operable means including a rack and pinion for effecting said adjustment, a second slide adjustable on the first in a direction axial of said spindle, manually operable

means for effecting the latter adjustment, means for securing each slide on its supporting part comprising in each case, a hold-down strap which engages the slide, a bolt mounted in the supporting part and threaded at one end into said strap and having threaded engagement at its other end with a nut, a spring interposed between the supporting part and the nut to frictionally hold the slide in any adjusted position and means for threading-up said nut to positively secure said slide in any adjusted position, a movable contact member secured to said second slide and adapted to engage the blades of the cutter, and an indicating device mounted on the second slide and having an operative connection with said movable contact member to test the radial position of the blades of the cutter.

1,949,015
CONTROLLING MECHANISM FOR WINDING DRUMS
Charles V. Hallenbeck, Denver, Colo.
Application March 10, 1932. Serial No. 598,039
1 Claim. (Cl. 192—138)



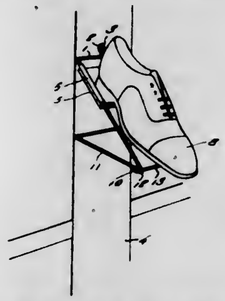
A mechanism of the character described, comprising a driven shaft, oppositely disposed gear elements thereon, a parallel driving shaft, oppositely disposed gear elements loose thereon and having direct and reverse driving engagement with the gear elements on the driven shaft, a clutch sleeve longitudinally shiftable on the driving shaft and adapted to have clutching engagement with one or the other of the gear elements on the driven shaft, a lever having operative engagement with the clutch sleeve, and means for automatically shifting the clutch sleeve to a neutral position after the driving shaft has made a predetermined number of revolutions including a wheel means for rotating said wheel one step upon a predetermined movement of the driven shaft, the axis of the wheel being coincident with the axis of oscillation of the lever, the lever having a lug and the wheel having a lug adapted after a predetermined rotation of the wheel to engage the lug on the lever and shift the lever to thereby shift the sleeve to a neutral position.

1,949,016
MULTIPLE GLASS TOP FUSE PLUG
Clarence I. Justheim, Salt Lake City, Utah
Application November 17, 1931
Serial No. 575,529
4 Claims. (Cl. 200—125)



1. In a fuse plug the combination of a base; a threaded screw contact screwed thereon; a central spring contact through the middle of said base in an opening therein; a semi-spherical contact on the top end of said spring contact; a spring contact through an opening in one side of said base with the end secured to the screw contact; a solid glass cover adapted to fit in a flange around the top of said base, said cover having depressions therein in which the fuse elements are carried; a fuse element carried in said depressions said element being formed of individual radial fuse elements having a thin blow out portion therein all attached to a common hub, said hub being fitted onto a hub within said glass cover and adapted to engage the semi-spherical portion of the central base contact; sloping sockets in which the ends of the fuse elements are secured; and means to secure the edge of a flange on the glass cover around the flange on the base to hold the two together.

1,949,017
SHOE DISPLAY RACK
Leo Knupp, Mounds, Ill.
Application May 22, 1933. Serial No. 672,318
2 Claims. (Cl. 211—35)

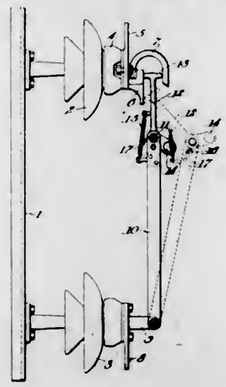


1. A shoe display rack comprising a substantially U-shaped frame, means on the bight portion of the frame for securing said frame at an inclination on a support, a plate mounted transversely on an upper portion of the frame at an inclination relative to the support, a heel retaining flange on the lower portion of the plate, and a brace pivotally mounted on the lower portion of the frame and engageable with the support, the bight portion of the frame being uppermost.

1,949,018
HIGH-TENSION SWITCH
Carl G. Koppitz, Greensburg, Pa., assignor to Railway and Industrial Engineering Company, Greensburg, Pa., a corporation of Pennsylvania
Application May 29, 1929. Serial No. 367,014
11 Claims. (Cl. 200—48)

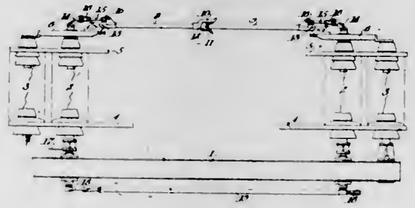
1. In a high contact pressure switch, the combination with U-shaped switch jaw defined by two substantially parallel surfaces, and a flattened contact element, of means including a toggle linkage supporting said jaw and element for relative translatory motion, said contact element being so positioned on said supporting means that it enters between the said substantially parallel surfaces of the switch jaw with the plane of its major dimension inclined to the basal and medial planes of said jaw, and means for actuating said toggle linkage to translate said element into said jaw and for effecting simultaneously with the final period of said translatory motion, relative rotary motion of said jaw and element about an axis parallel to the medial

axis of said jaw the bondaries of said flattened contact element adjacent said jaw being convex



surfaces, whereby the areas of contact with said jaw are of the order of line contacts.

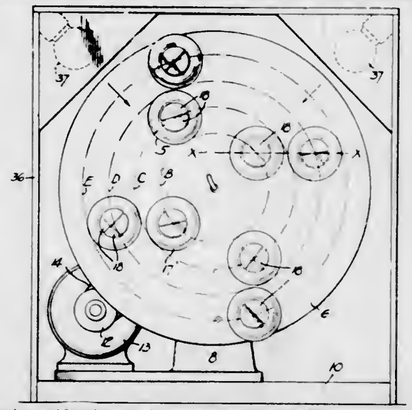
1,949,019
HIGH-TENSION SWITCH
Carl G. Koppitz, Greensburg, Pa., assignor to Railway and Industrial Engineering Company, Greensburg, Pa., a corporation of Pennsylvania
Application May 29, 1929, Serial No. 367,015
Renewed January 14, 1933
15 Claims. (Cl. 200—48)



1. In a high contact pressure switch, a pair of switch arms, means pivotally supporting said arms for rotation about spaced parallel axes, a switch jaw comprising a contact block of soft copper and a spring arm parallel to the contact face thereof, and a flattened contact element formed of a metal harder than said block, said jaw and said element being carried by the respective arms, and means for rotating said arms to move said element into said jaw, the length of said arms being such that said element is introduced into said jaw prior to the final movement of said arms and inclined to the basal and transverse planes of said jaw, whereby the final movement of said arms effects relative rotation of said element within said jaw.

1,949,020
DISPLAY MECHANISM
Herman Kreusler, Los Angeles, Calif.
Application May 31, 1932. Serial No. 614,557
3 Claims. (Cl. 240—10.1)

1. In a display mechanism, a plurality of electrically operable glow plates for intermittently producing instantaneous incandescent effects uniformly over defined areas, movable means for holding said plates in spaced apart relationship and for placing the same in motion as a unit, and means cooperable with the movable means for supplying a fluctuating electric current to said plates to render same effective for the intermittent production of incandescent effects uniformly over defined areas while said plates are in motion.



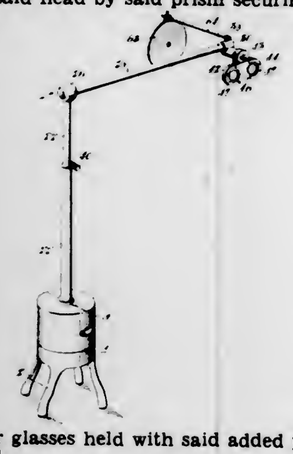
1,949,021
DEVICE FOR CASTING BY CENTRIFUGAL FORCE
Josef Leuser, Pforzheim, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt, vormals Roessler, Frankfort-on-the-Main, Germany, a corporation
Application July 19, 1932, Serial No. 623,437
In Germany July 25, 1931
6 Claims. (Cl. 22—65)

1. A centrifugal casting device comprising a carbon crucible in the form of a substantially cylindrical tube and adapted to contain a charge of metal, said crucible being closed at one end and provided at said end with an aperture, means for normally preventing molten metal from passing through said aperture, a mold having an opening adapted to communicate with said aperture, said crucible and mold being mounted on a rotatable support for relative movement towards and away from each other, said crucible being formed to permit heating only from the outside.

1,949,022
BINOCULATOR
Gurney Lee Mandaville, Fort Pierce, Fla.
Application November 13, 1930
Serial No. 495,473
15 Claims. (Cl. 128—25)

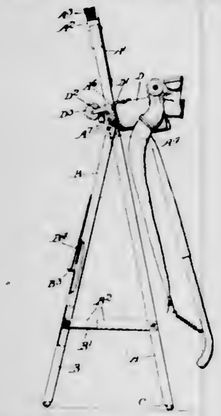
5. In instruments of the character stated, a support, an instrument head carried thereby, a motor on the support, said head including a pair of rotating cylinders carrying prisms, power transmitting mechanism between said motor and each of said cylinders for freely rotating the cylinders in the same direction, a prism securing

means carried by said head and added prisms held to said head by said prism securing means,



and color glasses held with said added prisms to said head.

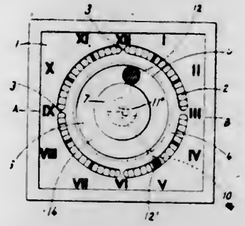
1,949,023
DISPLAY STAND
Irl H. Marshall, Racine, Wis., assignor to Clements Mfg. Co., Chicago, Ill., a corporation of Illinois
Application March 26, 1931. Serial No. 525,480
2 Claims. (Cl. 211—160)



1. In a display device, means for displaying a vacuum cleaner in operative position, said means comprising a supporting stand, an abutment carried thereby, formed with an engaging part adapted to engage and firmly grip a single part of said vacuum cleaner while leaving the remainder of the cleaner visible, the abutment adapted to contact an adjacent part of the vacuum cleaner, whereby the vacuum cleaner is engaged and gripped at substantially a single place the weight of the cleaner alone serving to hold it in engagement with the engaging part.

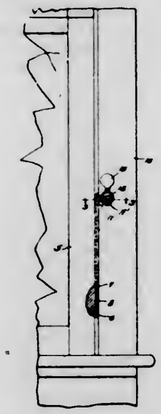
1,949,024
DIAL ARRANGEMENT APPLICABLE TO VARIOUS APPARATUS
Raphael Melik-Minassiantz, Paris, France
Application September 29, 1930, Serial No. 485,216
In France October 9, 1929
5 Claims. (Cl. 58—126)

1. A dial indicating arrangement comprising a shaft, two hands supported in different planes by the shaft and operating with respect thereto, each hand including a visible pointer located at the end of each hand and movable in circles of different diameters about the shaft, and a disk



interposed between the two successive hands for covering one of the hands during movement so that one hand cannot be seen on the path of the other of said hands.

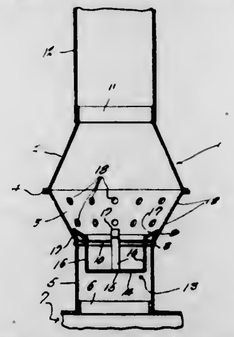
1,949,025
WINDOW SASH LOCK
John P. Murphy, La Crosse, Kans.
Application February 25, 1933. Serial No. 658,590
1 Claim. (Cl. 292—340)



The combination with a pivoted sash latch, of a keeper embodying a rod positioned in a groove formed in one edge of the sash intermediate the ends of the sash, the groove defining a wall at one end thereof, said sash having a bore at the opposite end of the groove, said rod having a right-angled end fitted in the bore, at the opposite end of the rod engaging the wall at the end of the groove securing the rod to the sash, and said rod having notches adapted to receive a pivoted latch member.

1,949,026
FUEL SAVER
John H. Nitka, St. Louis, Mo.
Application December 1, 1932. Serial No. 645,302
3 Claims. (Cl. 126—307)

1. A fuel saver comprising a drum for connection with a flue, said drum including upper and lower relatively reversed frustums connected with each other at their enlarged ends, the lower frustum having openings therein, a pipe section depending from the lower frustum, and a check member movably mounted in the pipe section



and adapted to be moved upwardly into the lower frustum by excess pressure in said pipe section.

1,949,027
AIRPLANE COWL FASTENER
George W. Pancoe, Brooktondale, N. Y., assignor to Thomas-Morse Aircraft Corporation, a corporation of New York
Application February 29, 1932. Serial No. 595,769
8 Claims. (Cl. 24—211)

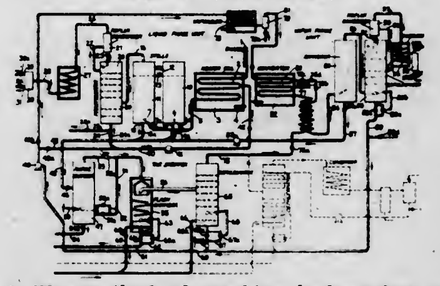


1. A stud-engaging member for a fastening device comprising, in combination, a cover plate, a back plate to which said cover plate is attached having an opening therein for receiving a stud member, the said cover plate being pressed out to form a recess having oppositely disposed cam shaped surfaces, and a resilient engaging member held in said recess, said engaging member being slidable with respect to said cover plate and having corresponding projections operatively associated with said cam shaped surfaces.

1,949,028
OXIDIZED LINSEED OIL AND PROCESS OF MAKING
Alexander Schwarcman, Buffalo, N. Y., assignor to Spencer Kellogg and Sons, Inc., Buffalo, N. Y., a corporation of New York
No Drawing. Application March 16, 1932
Serial No. 599,367
4 Claims. (Cl. 87—12)

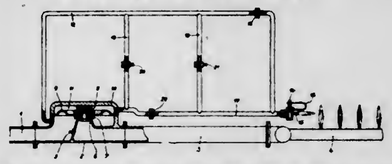
1. In the manufacture of linseed oil preparations indefinitely soluble in turpentine substitutes and miscible in all proportions with mineral oils, the process which comprises quickly and briefly heating linseed oil to approximately 600° F., the said heat treatment being insufficient to produce substantial bodying and to decrease the iodin value, rapidly cooling the heated oil to a temperature of approximately 300° F. and then air blowing the so-cooled oil.

1,949,029
METHOD OF CRACKING HYDROCARBON OIL
Harris A. Smith, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 27, 1930. Serial No. 464,130
7 Claims. (Cl. 196—60)



1. The method of cracking hydrocarbon oil which comprises cracking and vaporizing the oil at superatmospheric pressure to produce a gasoline fraction and a liquid residue, separately distilling the residue at reduced pressure in a flash distillation zone, subjecting the vapor developed in the flash distillation zone to dephlegmation to produce a reflux condensate and a vapor fraction, revaporizing the reflux condensate from the dephlegmation step, separating an unvaporized tarry portion from the revaporized condensate, conducting the revaporized condensate free from tar to a converter in a vapor phase cracking zone, passing the uncondensed vapor fraction from the dephlegmation step into said converter, commingling the two said vapors therein and subjecting them to vapor phase cracking.

1,949,030
GAS BURNING APPARATUS
Friedrich Wilhelm Stockmeyer, Vaihingen, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany
Application September 15, 1930, Serial No. 482,101. In Germany October 8, 1929
8 Claims. (Cl. 158—117.1)



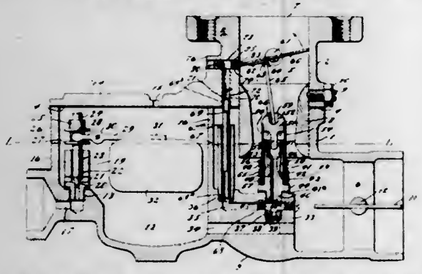
1. A gas burning apparatus comprising a main burner and a pilot burner, passages for gas leading to both burners, a valve in each passage, a restriction in the pilot burner passage, the pilot burner passage extending to the pressure supply side of the main burner valve whereby the closing of the latter will not interrupt the flow of gas to the pilot burner, a diaphragm operable to open the main burner valve whenever the pressure difference on the two sides of the diaphragm exceeds a predetermined value, a casing enclosing said diaphragm, exposing one side of said diaphragm to the pressure of the gas supply and forming with the diaphragm a pressure chamber on the opposite side thereof, gas connections between said chamber and the pilot burner passage whereby said chamber may receive gas from said passage at a point between the restriction therein and the pilot burner or from said passage at a point between the restriction and the supply side of the main gas

valve, alternatively, and whereby in the first instance, when the pilot burner valve is opened, the resultant drop in pressure at such point produces a pressure difference on said diaphragm sufficient to open the main burner valve and in the second instance the pressure difference is insufficient to open the main burner valve.

1,949,031
CARBURETOR

Walter H. Weber, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application October 18, 1927. Serial No. 226,847
18 Claims. (Cl. 261—34)

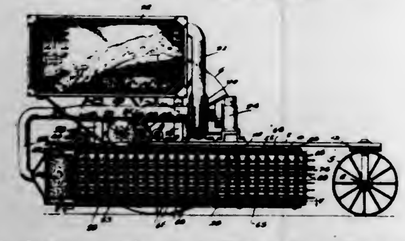


1. A carburetor comprising a mixing chamber having air and fuel inlets and a mixture outlet, a fuel reservoir for supplying fuel to said fuel inlet, means to control flow through said chamber, a variable air jet cooperable with and controlling said fuel inlet, said air jet discharging into said fuel inlet and said chamber above the normal fuel level in said reservoir whereby the air issuing from said air jet acts by aspiration upon the fuel in said fuel inlet, and means operable by said control means to regulate said air jet.

1,949,032
COTTON PICKING MACHINE

Ernest Martin Wilson, Fort Worth, Tex., assignor of thirty per cent to Elgan H. Carlton and thirty per cent to Al A. Carlton, both of Fort Worth, Tex.

Application April 8, 1930. Serial No. 442,568
5 Claims. (Cl. 56—42)



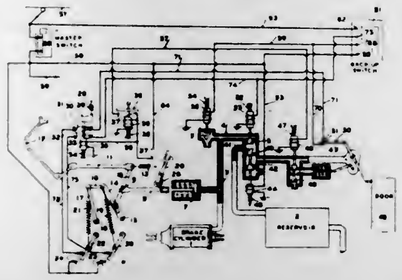
1. A cotton picker including a supporting structure, an endless conveyer carried by the supporting structure, picking members carried by the conveyer, and a rotatable brush positioned at the end of the conveyer for wiping the picking members as the conveyer is operated, said brush including a solid mass of bristles and the picking members passing directly through the mass.

1,949,033
FLUID PRESSURE BRAKE

Orville C. Wright, St. Louis, Mo.

Application May 9, 1931. Serial No. 536,104
14 Claims. (Cl. 303—20)

1. In a device of the class described, the combination with a brake cylinder and fluid pressure supply therefor, of electrically-operated supply and release valves therefor, a member movable proportionally to the brake cylinder pressure, a floating lever having its pivot point carried by said member, a manually-operated



control connected with said lever, and a toggle switch included in a valve operating circuit, said toggle switch being connected with the floating lever, whereby said toggle switch is operated by the combining action of said member and control.

1,949,034
METHOD OF MANUFACTURING A LEATHER SUBSTITUTE

Seiichi Yamamoto, Asakusa Ku, Tokyo, Japan

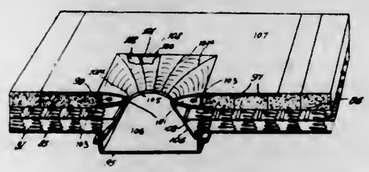
No Drawing. Application November 10, 1931
Serial No. 574,233
6 Claims. (Cl. 154—2)

1. Method of manufacturing a leather substitute, comprising opening the bark of *Artocarpus kunstleri* popularly known as "Kayutarap" and pasting together the resultant coarse network with rubber material, thus forming a sheet with said network as foundation and the rubber material as coating.

1,949,035
HOSPITAL OR INVALID BED

Lambertus Beurschgens, Leyden, Netherlands, assignor, by mesne assignments, to Naamlooze Vennootschap "Morpheus", Leyden, Netherlands, a company of the Netherlands

Application January 10, 1930, Serial No. 419,983
In Germany January 10, 1929
5 Claims. (Cl. 5—91)

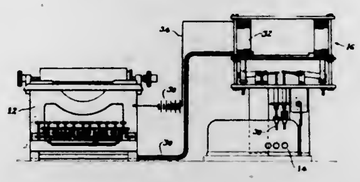


1. A mattress or mattress section for a hospital bed comprising a padding, a spring element supporting said padding, said padding and spring element having a vertical passage therethrough, a chamber for the reception of a bed pan located below said support, an elastic waterproof cover detachably connected to said padding and having a cuff extending through said passage, means for connecting the lower end of said cuff to the top of said chamber and tensioned elastic straps connecting the sides of the cuff to the frame of the spring element.

1,949,036
COPY PREPARING MACHINE

Arthur W. Buckwell, Quincy, Mass., assignor to Ginn and Company, Boston, Mass., a copartnership

Application January 9, 1930. Serial No. 419,649
7 Claims. (Cl. 197—187)

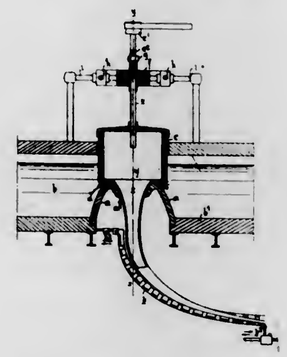


1. A type layout machine having, in combination, a typewriter having the usual keys, type and carriage, an adding machine having a clearing mechanism, actuating means for the adding machine including plungers for setting up on the adding machine the type width values of the typewritten characters, electrical means controlled by the typewriter keys for selectively operating the plungers, a solenoid having a core connected with the clearing mechanism of the adding machine, and means controlled by a return movement of the typewriter carriage for energizing the solenoid.

1,949,037
APPARATUS FOR THE DRAWING OF TUBULAR BODIES OF GLASS AND THE LIKE

Jean Cardot, Bagneaux sur Loing, France, assignor, by mesne assignments, to Corning Glass Works, Corning, N. Y., a corporation of New York

Application May 18, 1931, Serial No. 538,355
In France May 21, 1930
8 Claims. (Cl. 49—17.1)



8. An apparatus for the drawing of tubular bodies, of glass or any other plastic material, comprising a drawing tank containing the molten glass, a gate member mounted in the bottom of said tank and completely submerged in the bath of glass, and a bell shaped member partially immerged in the bath of glass, above the said gate member, together with a gutter, adapted to support the drawn article at its exit from the funnel shaped member, said gutter being formed of V shaped jointed elements, and means for giving a variable curve to said gutter.

1,949,038
REFRACTORY ARTICLE

Trevor M. Caven, New York, N. Y., assignor, by mesne assignments, to Corning Glass Works, Corning, N. Y., a corporation of New York

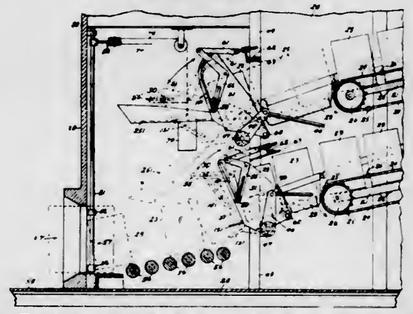
No Drawing. Application February 10, 1927
Serial No. 167,368
9 Claims. (Cl. 106—9)

2. A refractory article consisting of refractory aluminum oxide grains and a binding medium consisting of a refractory aluminum phosphate.

1,949,039
ICE DISPENSING APPARATUS

Herman W. Clausen and Peter C. Clausen, Los Angeles, Calif.

Application December 21, 1931
Serial No. 582,344
3 Claims. (Cl. 312—96)

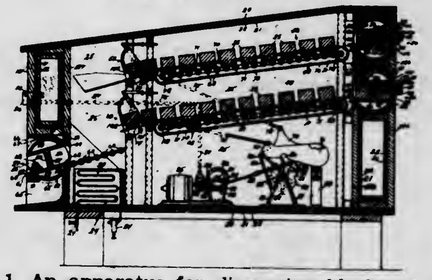


1. Package dispensing apparatus including a conveyor for conveying blocks of ice one behind the other in single file, a gate pivotally mounted adjacent the discharge end of the conveyor so as to rock and when in one position will hold a block of ice and stop the delivery movement of the other blocks of ice and when operated will permit said first block of ice to be discharged, a bell crank lever having a stop bar that is adapted to be elevated by the delivery movement of said gate out of the path of said first block of ice, and another stop bar connected with said gate which is adapted when the gate is given its delivery movement to be elevated by the gate behind said first block of ice being delivered so as to hold back the other blocks of ice until the gate is returned to normal closing position.

1,949,040
APPARATUS FOR RECEIVING AND DISPENSING BLOCKS OF ICE

Herman W. Clausen, Los Angeles, Calif., assignor of one-half to Peter C. Clausen, Los Angeles, Calif.

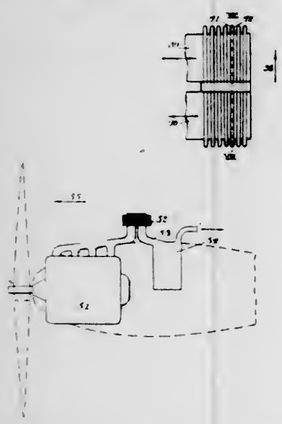
Application February 14, 1933. Serial No. 656,716
5 Claims. (Cl. 312—35)



1. An apparatus for dispensing blocks of ice including an enclosure having walls constructed

to resist the passage of air and heat therethrough, means for storing blocks of ice in said enclosure, a split door frame in said opening, a door pivotally mounted in said frame that has oppositely arranged outer and inner chambers therein, upper and lower stops in said frame, a lug on said door, weights in the outer chamber of said door for normally holding said lug in engagement with said lower stop so that the inner chamber of said door is in position to receive blocks of ice from the interior of said enclosure, and means for delivering blocks of ice separately and consecutively to the inner chamber of said door so that when a block of ice is so delivered its weight will cause said door to revolve until said lug engages said upper stop and thereby holds the door stationary until the block of ice automatically discharges from the chamber to the exterior of the enclosure.

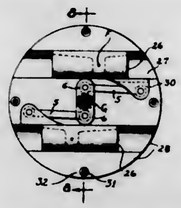
1,949,041
EXHAUST SILENCER
Edmond de Lagabbe, Paris, France
Application December 26, 1929, Serial No. 416,589
In France December 28, 1928
1 Claim. (Cl. 137—160)



Apparatus for treating exhaust gases of internal combustion engines, comprising a first collector for the inlet of the gas, a plurality of pairs of closely spaced parallel plates disposed perpendicularly to the axis of the said collector and maintaining a constant spacing between each other, the space between the plates of each pair of plates being in communication with the said collector, a wall between the two plates of each pair of plates to prevent the passage of air between the said plates, walls between the pairs of plates to prevent the passage of gas between the said pairs of plates, and a second collector substantially parallel to the said first collector for the departure of the gas, each plate being thus traversed by two orifices, one for the entrance and one for the departure of the gas, the walls between the two plates of each pair of plates being continuous and creating air-tight compartments.

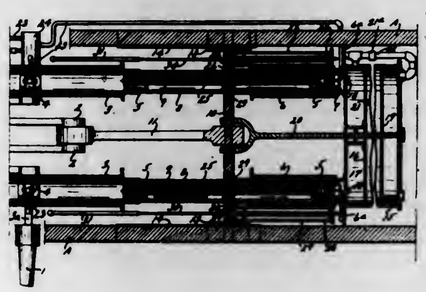
1,949,042
MASS INERTIA TRANSMISSION
Adiel Y. Dodge, South Bend, Ind.
Application July 20, 1932. Serial No. 623,540
8 Claims. (Cl. 74—14)

1. A variable spaced transmission comprising a driving motor, a driven rotor, and mass inertia transmission between said driving rotor and said driven rotor comprising a mass rotatable with one of said rotors, means for guiding said mass for in and out rectilinear movement with respect



to the axis of said rotor, the other rotor being provided with a crank and a link connecting said crank and mass, said rectilinear movement being non-radial.

1,949,043
MULTIPLE CYLINDER ENGINE CONSTRUCTION
David J. Dolan, Cleveland Heights, Ohio
Application January 10, 1931. Serial No. 507,780
5 Claims. (Cl. 123—51)

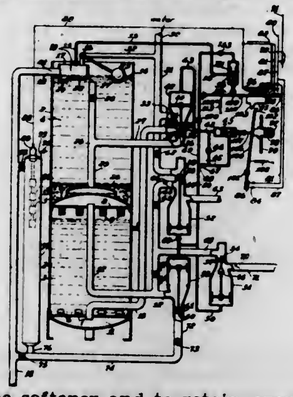


4. In an engine of the class described, a plurality of banks of cylinders, each bank having two parallel lines of cylinders, each line of cylinders including a cylinder with a central head portion, a crank shaft extending in the plane of said head portions between the lines of cylinders and having cranks between the banks, a piston for each cylinder, piston rods for the pistons, cross heads joining corresponding piston rods of the two banks and extending beyond the banks, ways for said cross heads at the ends of the latter, and connecting rods joining the cross heads with the cranks of the crank shaft.

1,949,044
WATER SOFTENING APPARATUS
Andrew J. Dotterweich, Pittsburgh, Pa., assignor to Automatic Water Softener Company, Pittsburgh, Pa., a corporation of Delaware
Application August 26, 1929. Serial No. 388,300
29 Claims. (Cl. 210—24)

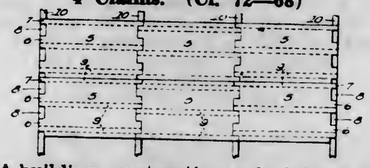
1. In a water softener having a flow controlling system for normally flowing water to be softened through the softener to a service pipe and for flowing regenerating solution and water successively through the softener to a drain for regenerating and flushing operations respectively, valves in said system, an electromagnet, an energizing circuit therefor, an electrode in the drain controlling said circuit, and hydrostatic means controlled by said magnet to close a valve

controlling the admission of regenerating solu-



tion to the softener and to retain open a valve controlling flow from the softener to the drain.

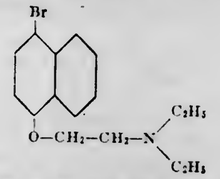
1,949,045
FIREPROOF BUILDING CONSTRUCTION
John A. Ferguson, Pittsburgh, Pa., assignor of one-third to Thomas B. Sturges, Pittsburgh, Pa.
Application September 27, 1928
Serial No. 308,830
4 Claims. (Cl. 72—68)



1. A building construction embodying a plurality of spaced structural members, a plurality of load-supporting slabs each comprising a body formed with longitudinally extending reinforcing elements and load-supporting ends having projecting and re-entrant portions, said reinforcing elements constituting the bearing surfaces of the slabs and resting directly upon the structural members, said elements each having a side face in contact with a corresponding face of another slab.

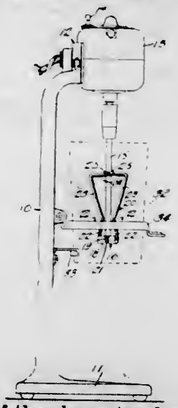
1,949,046
BASIC ETHER CONTAINING HALOGEN
Max Hartmann and Hans Isler, Riehen, near Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Original application March 24, 1930, Serial No. 438,638. Divided and this application February 27, 1932. Serial No. 559,651. In Switzerland April 5, 1929
1 Claim. (Cl. 260—127)

The diethylaminoethoxy-bromonaphthalene of the formula



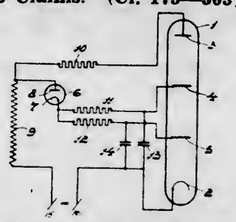
which product is a yellowish oil forming with hydrochloric acid a salt of melting point 179–180° C. soluble in water, said product being useful in therapeutics as an antiseptic.

1,949,047
WHIPPING ATTACHMENT FOR DRINK MIXERS
George C. Hill, Sandusky, Ohio
Application May 9, 1931. Serial No. 536,271
5 Claims. (Cl. 259—135)



1. A device of the character described comprising a unitary resilient body having a central shank portion adapted to lie against the bottom of a rotary mixing element having blades with spaces therebetween, the portions of the body at opposite sides of said shank portion extending upwardly for reception between the blades of the mixing element, the end portions of the body extending upwardly and outwardly and then inwardly toward each other and terminating in oppositely opening spaced hooks whereby said body is adapted to be flexed inwardly to bring said hooks into holding engagement with the shaft of the mixing element.

1,949,048
HIGH TENSION RECTIFIER COMPRISING AN AUXILIARY ELECTRODE
Gilles Holst, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a limited liability company of the Netherlands
Application April 14, 1928, Serial No. 270,117
In the Netherlands May 6, 1927
6 Claims. (Cl. 175—363)



5. A rectifying system comprising a gas-filled space discharge tube having an incandescible cathode and at least one anode spaced so widely apart that inverse discharge will be inhibited and discharge in the desired direction will occur only with difficulty, the tube also having at least two auxiliary electrodes extending into the discharge space, for facilitating discharge in the desired direction, a source of full wave alternating potential connected across said cathode and anode, means for impressing a positive bias on said auxiliary electrode during the desired half cycle, and a space discharge tube for unbiasing said auxiliary electrodes and inhibiting current flow

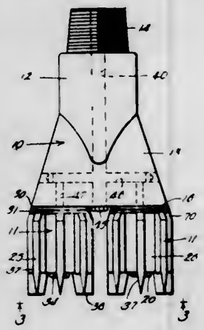
thereto during the alternate half cycle, and a condenser connected between said auxiliary electrodes and said incandescible cathode.

1,949,049

ROTARY DRILLING BIT

Samuel Ray Hopkins, Long Beach, Calif., assignor, by mesne assignments, of one-half to Jesse C. Wright and one-half to William H. Maxwell, both of Los Angeles, Calif.

Application October 29, 1929. Serial No. 403,222
10 Claims. (Cl. 255—71)



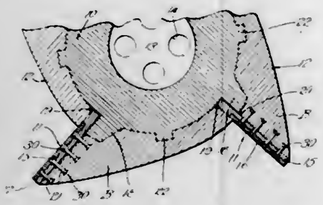
1. A bit for use on an operating string of drill pipe including, a body having a central longitudinal fluid passage, cutters, means mounting the cutters on the lower end of the body for independent rotation about vertical axes symmetrically spaced about the central longitudinal axis of the body including tubular spindles rotatably supporting the cutters, and longitudinal cutting parts on the cutters spaced substantial distances apart circumferentially of the cutters, the said central longitudinal fluid passage discharging from the lower end of the body between the cutters and the spindles being in communication with the said passage to discharge from the lower end of each cutter.

1,949,050

METHOD FOR MAKING A TOOL

John H. Howard, Huntington Park, and Alfred C. Catland, Alhambra, Calif., assignors to Globe Oil Tools Company, Los Nietos, Calif., a corporation of California

Application October 5, 1931. Serial No. 566,913
6 Claims. (Cl. 76—108)



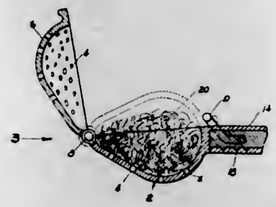
1. The method of making a tool including, placing a body of hard cutting material on a plate, heating the plate to a substantially molten condition to cause the body of hard cutting material to sink therein, cooling the plate, attaching the plate to the body of the tool, and then casting material on the body and a side of the plate.

1,949,051

TREATING METAL

William H. Kelly, Los Angeles, Calif., assignor to Mary Elizabeth Kelly, Los Angeles, Calif.

Application August 19, 1929 Serial No. 386,762
13 Claims. (Cl. 75—17)



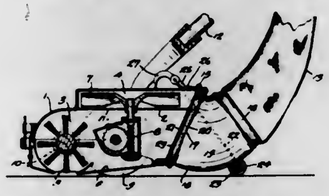
1. The process of treating molten metals which consists in introducing a perforated cage containing a saturated mass of water retaining material below the surface of said molten metals, whereby a film of steam will be formed about said material, the heat of said metals causing said steam to be disassociated into oxygen and hydrogen and to be released into said metals through said perforations.

1,949,052

SUCTION CLEANING APPARATUS

James B. Kirby, West Richfield, Ohio, assignor to Industrial Improvements Incorporated, Cleveland, Ohio, a corporation of Ohio

Application November 12, 1930
Serial No. 495,157
11 Claims. (Cl. 183—36)



1. In a suction cleaner, a dust bag, a litter receptacle hinged to the cleaner in communication with the discharge outlet thereof and connected to said bag and having a collecting cavity at a lower level than the cleaner discharge outlet, said receptacle having rigid walls and also having next to said cleaner an opening which is closed and opened by the movement of said receptacle about its hinge toward and away from the cleaner.

1,949,053

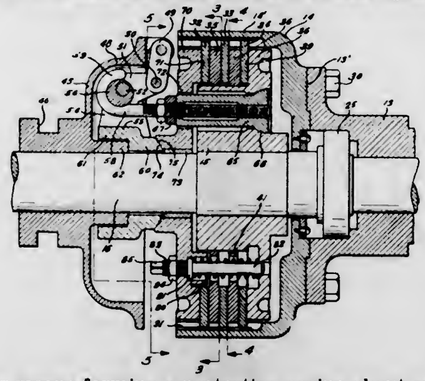
CLUTCH

Herman L. Kutter, Hamilton, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio

Application January 28, 1931. Serial No. 511,837
8 Claims. (Cl. 192—69)

1. A clutch comprising an outer cylindrical body member, an inner hub member to be clutched thereto, said inner hub member having longitudinally extending slots, a set of friction plates having projections slidable in said slots, a second set of friction plates slidably held on said body member, tension rods extending through said hub member and provided inwardly of said second set of friction plates, cam means engaging said rods for pressing said friction

plates together, a cam carrying member concentric with said hub member, and movable operat-



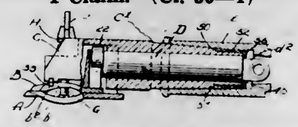
ing means forming a protecting casing about said cam means and cam carrying member.

1,949,054

HAIR CLIPPER

Leander H. La Chance, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois

Application January 18, 1932. Serial No. 587,180
1 Claim. (Cl. 30—1)



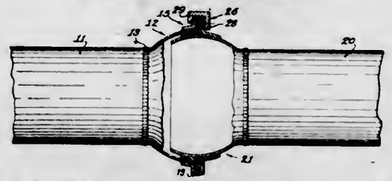
In a hair clipper of the type comprising a fixed comb and cutter and a vibrating cutter lodged on the fixed comb member with guidance for vibrating over the fixed cutter and having for deriving such vibratory movement means for cooperating with an actuating element of a drive shaft, in combination with the fixed cutter and comb member a downwardly open housing upon the under side of which the comb member is engaged against displacement in the plane of said fixed member, said housing having integral therewith a rearwardly extending handle-journal-bearing member exteriorly adapted to seat the terminal sleeve of a flexible shaft casing, and having a journal bearing extending through its entire length of diameter nowhere exceeding the diameter at the rear end; a shaft journalled in said bearing having diameter at no part of its length which extends in the handle and housing exceeding the diameter at the part which is journalled at the rear end of the handle, said shaft protruding at the rear end for connection with the rotating element of a flexible shaft and at the forward end exposed in the cavity of the housing and having rigid with it within the least diameter of the journal bearing, means cooperating with the means of the vibrating cutter for actuating the latter, and means located rearward of said cooperating actuating means for stopping the shaft longitudinally against withdrawal from the handle-journal-bearing, said means consisting of a collar fixedly applied to the rear end of the journal bearing handle, whereby said collar is enclosed within said terminal sleeve of the flexible shaft casing, said collar having at its rear end an annular flage of inner diameter less than the diameter of the journal bearing at the rear end, the shaft being reduced in diameter at the rearwardly protruding end forming a shoulder cooperating with said collar flange.

1,949,055

FLEXIBLE IRRIGATION PIPE COUPLING

John Alfred Lambie, Los Angeles, Calif., assignor of one-half to West Coast Pipe and Steel Co., Los Angeles, Calif., a corporation of California, and one-half to Rain Machine, Ltd., Lompoc, Calif., a corporation of California

Application January 5, 1932. Serial No. 584,822
8 Claims. (Cl. 285—91)



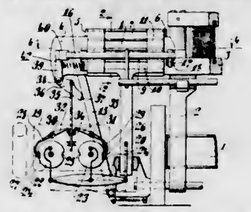
6. A flexible coupling having a first pipe with a ball thereon spherical on its outside surface, a ring having a web and a radial flange, the web having a loose fit on the ball, a second pipe having a bell with an inside surface concentric with that of the exterior of the ball and having an integral radial flange thereon, the said flange being substantially in a diametrical plane through the center of the bell, a packing gasket having a web concentric with the ball and fitted between the exterior surface of the ball and the interior surface of the bell, means to clamp the flange of the bell and the flange of the ring together, one edge of the gasket engaging the flange of the ring, the said gasket limiting the entrance of the ball into the bell when the flanges are in clamped relation.

1,949,056

MULTICELL SHUTTLE BOX FOR LOOMS

Jean Lässker, Arbon, Switzerland, assignor to Societe Anonyme Adolphe Saurer, Arbon, Switzerland, a corporation of Switzerland

Application March 16, 1932, Serial No. 599,198
In Germany March 20, 1931
4 Claims. (Cl. 139—185)



1. A loom lay having a multi-cell shuttle box, means for actuating shuttles in the box selectively, a brake mounted on the lay and adapted to engage a shuttle in shot position, and means actuated by operating means for the shuttle box to disengage the brake from the shuttle.

1,949,057

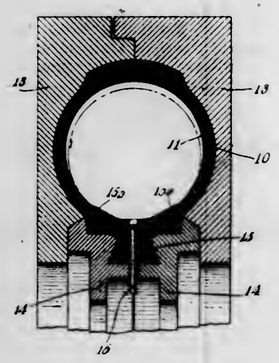
RUBBER ARTICLE AND METHOD OF MAKING THE SAME

Charles W. Leguillon, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application May 31, 1930. Serial No. 458,014
10 Claims. (Cl. 18—59)

1. The method of making a vulcanized rubber article which comprises fabricating the major portion of the article of material including masticated rubber at the surface of the structure, applying to the structure a surfacing layer of material comprising unvulcanized rubber relatively

non-flowing at vulcanizing temperature, and vulcanizing the article while holding it distended by



pressure fluid applied directly to said surfacing layer.

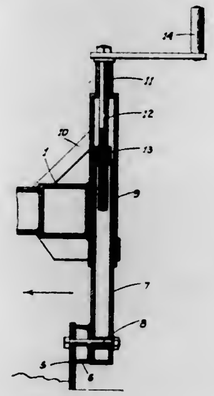
1,949,058
DISPENSING BOTTLE STOPPER
Charles W. Leguillon, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 29, 1932
Serial No. 635,352
4 Claims. (Cl. 215—74)



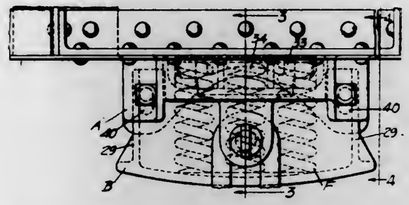
1. A dispensing stopper comprising a resilient tubular member adapted to engage the neck of a bottle and having a flexible bulb thereabove forming a chamber apertured to dispense a liquid, and a stopper attached to the flexible bulb in alignment with the neck of the bottle but normally out of contact therewith and adapted to seal the bottle by telescoping of the chamber walls.

1,949,059
ADJUSTABLE LEVELER BLADE MOUNTING
Robert G. Le Tourneau, Stockton, Calif.
Original application November 20, 1932, Serial No. 644,783. Divided and this application September 1, 1933. Serial No. 687,813
2 Claims. (Cl. 97—144.1)

1. In a ground working implement, a transverse frame beam, a transverse leveler blade under said beam, rigid uprights abutting against and connected to the blade at spaced points in its length, sleeves mounted on and rigid with the beam and into which said uprights slidably project, and means between said sleeves and uprights to adjust the blade vertically.



1,949,060
DRAFT AND BUFFING GEAR
John H. Link, Merion, Pa., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application September 1, 1932. Serial No. 631,393
16 Claims. (Cl. 213—9)



13. In a combined draft and buffing gear for mine cars, the combination with a supporting member at the end of the car; of a buffing head slidably mounted on said supporting member for movement lengthwise of the car; a draft element slidable with respect to the supporting member in a direction lengthwise of the car; a lever fulcrumed at one end on said supporting member and pivotally connected to the draft element; fixed abutment means on said supporting member; and shock absorbing means including a member interposed between and having its opposite ends bearing on the buffing head and said abutment means, and an additional member embraced between the inner side of the buffing head and the forward side of the lever, said last named member being compressible between the buffing head and lever.

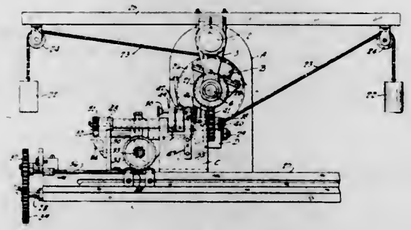
1,949,061
CURTAIN STRETCHER
Gysbert Vander Male, Grand Rapids, Mich.
Application August 7, 1933. Serial No. 683,983
8 Claims. (Cl. 45—24)

8. A curtain stretcher comprising in combination spaced opposed uprights having inwardly extending flanges, resilient rollers on the inner sides of said uprights, and wedge members coacting



with said rollers for clamping the side edges of the curtain to said flanges.

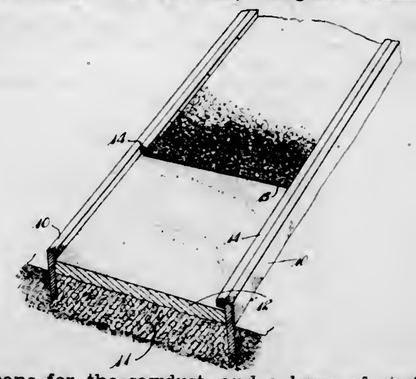
1,949,062
CAM TOOTH GENERATING MECHANISM
Frank Marriott and Constantine Neklutin, Ferguson, Mo.
Application September 12, 1932
Serial No. 632,768
20 Claims. (Cl. 90—15)



1. Mechanism for generating a helical cam-tooth having a varying helix-angle comprising, in combination, a rotary spindle, a head mounted for rotatory movement about the axis of the spindle, a cutter carried by the head for rotation by the spindle, an arbor for rotarily supporting the work in co-operation with the cutter, and means having operable association with the head and arbor for intermittently rotarily actuating the head for varying the angular-engaging relation of the rotating cutter with the rotating work.

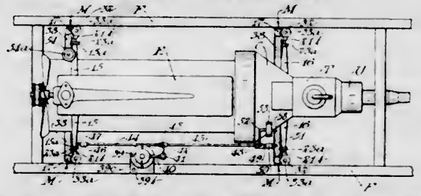
1,949,063
ARTIFICIAL TURF
Allan B. Merrill, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 14, 1930. Serial No. 475,150
1 Claim. (Cl. 94—7)

Artificial turf comprising flexible sheet material in simulation of grass, a support therefor comprising loose sawdust, marginal confining



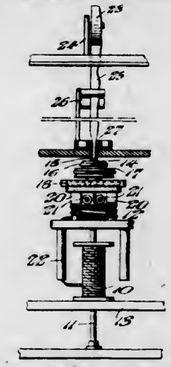
means for the sawdust, and a layer of cinders beneath the sawdust.

1,949,064
POWER PLANT MOUNTING
Herbert J. Nathan, Bismarck, N. Dak.
Application April 19, 1933. Serial No. 666,858
12 Claims. (Cl. 248—14.2)



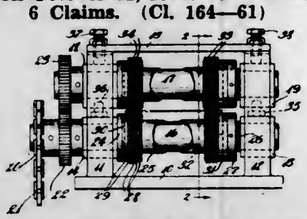
2. In combination with a power plant unit and a supporting frame therefor, hydraulic means for supporting said unit from said frame, said means being so constructed and arranged as to provide for bodily oscillation of said unit and to limit said oscillation to rotary oscillation about an axis disposed in general longitudinally with respect to said unit and passing through the center of gravity of said unit.

1,949,065
CELLOPHANE YARN
Earl W. Twitchell, Haddonfield, N. J.
Application October 19, 1931. Serial No. 569,605
2 Claims. (Cl. 117—52)



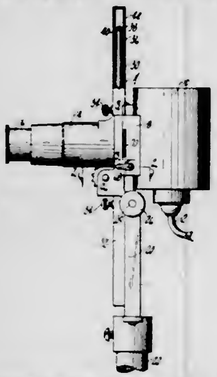
1. A new article of manufacture consisting of a strand formed by twisting a ribbon of sheet cellulose, said strand in untwisted form having a straight edge and an irregular edge and when twisted being of substantially uniform diameter but varying in flexibility throughout its length.

1,949,066
SLITTING MACHINE
Harry E. Waner, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 31, 1933. Serial No. 696,044
6 Claims. (Cl. 164—61)



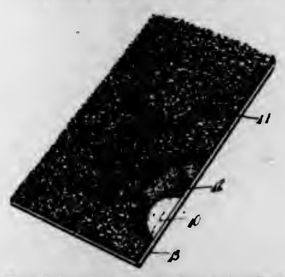
6. Apparatus for slitting sheet material, said apparatus comprising a rotatable arbor, a resilient rubber cushion surrounding said arbor, a plurality of cutting discs surrounding said cushion in spaced relation, each of said discs having a cylindrical periphery having cutting edges, means for axially compressing said cushion to frictionally retain said discs on said arbor, a second arbor mounted parallel to the first named arbor, and a plurality of anvil discs carried thereby in spaced relation, each anvil disc having a periphery convex in cross-section and contacting with the edges of two of said cutting discs.

1,949,067
APPARATUS FOR TESTING VISION
Arthur P. Wheelock and Hugo E. Tensen, Des Moines, Iowa
Application November 28, 1932
Serial No. 644,640
2 Claims. (Cl. 88—20)



2. In an apparatus for testing vision, a projecting device having a lamp house and a projecting tube, a base block interposed between the house and tube, having an aperture for the passage of light and provided with a vertical channel and an intersecting transverse channel, a vertical strip slidable in the first channel, having rows of holes at its sides, notches in said strip and a central lengthwise opening, a translucent strip in said opening provided with spaced units of indicating characters, the units corresponding to the respective notches, toothed wheels meshing with said holes, a shaft suitably journaled, carrying the toothed wheels and an operating wheel, a transverse strip slidable in the second channel, having a series of various openings of differing characteristics adapted to register with a unit or parts of it when a unit registers with the aperture, said transverse strip having notches corresponding to its various openings and spring pressed detents for engaging in the notches of the two strips.

1,949,068
ARTIFICIAL TURF AND METHOD OF MAKING THE SAME
Marvin Achterhof, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 11, 1930. Serial No. 467,155
10 Claims. (Cl. 154—2)

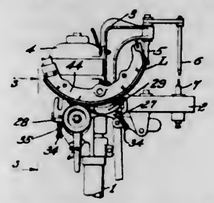


1. Artificial turf comprising a body structure of sheet form comprising rubber, a thick nap bonded to one face thereof and comprising fibers in random arrangement simulating grass, and rubber particles interspersed in and adhered to the fibers.

1,949,069
LUMINESCENT TUBE
Frederick R. Balcar, Elizabeth, N. J., assignor to Air Reduction Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application March 29, 1930
Serial No. 440,165
5 Claims. (Cl. 176—122)

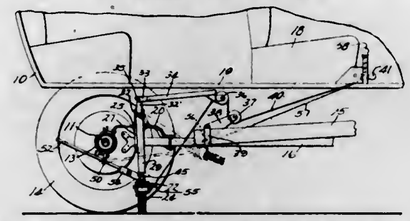
1. A luminescent tube containing neon and a gas of the group consisting of krypton and xenon, the gas from said group being present in an amount sufficient to alter the color of the emitted light.

1,949,070
GRINDER ATTACHMENT FOR BRAKE RELINING MACHINES
Harry B. Barrett, Los Angeles, Calif.
Application January 11, 1932. Serial No. 585,881
7 Claims. (Cl. 51—102)



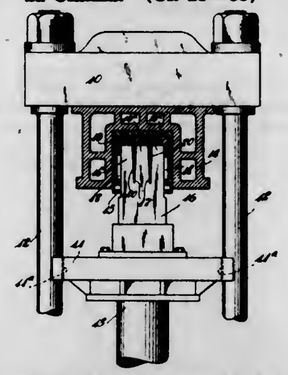
1. A grinding-machine including, in combination, a frame, a grinding-wheel mounted for rotation on the frame, an arm pivotally attached at an end to the frame adjacent to the wheel, the arm having a length greater than the diametrical dimension of the wheel, and members extending laterally from the spaced outer and inner ends of the arm for supporting the work for engagement by the wheel, the arm being swingably adjustable with respect to the wheel for disposing said members on opposite sides of the axis of the wheel.

1,949,071
BRAKING OR ANTISKIDDING DEVICE FOR AUTOMOTIVE VEHICLES
William H. Blair, Janesville, Wis.
Application July 29, 1932. Serial No. 625,983
7 Claims. (Cl. 188—5)



1. The combination with an automotive vehicle and a chassis thereof provided with a floating bracket resiliently mounted therefrom, of a swinging strut mounted on the floating bracket, and a road shoe mounted on the strut.

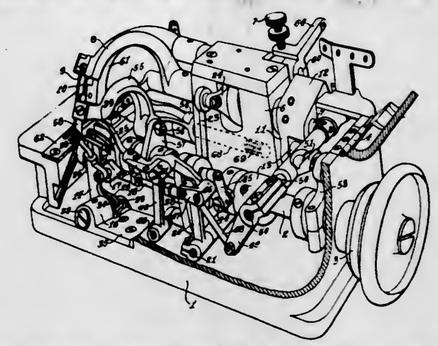
1,949,072
METHOD OF MAKING MOLDED ARTICLES FROM PLASTIC MATERIALS
John H. Clarke, Watertown, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 25, 1931. Serial No. 532,737
11 Claims. (Cl. 18—55)



1. The method of making a molded article having walls of different thicknesses which comprises providing a composite biscuit of plastic material whose plasticity is different in different parts thereof, introducing said biscuit between confining mold members in such relation thereto as to restrict flow of the more plastic portion to the portions of the mold members defining the thinner walls of the article, and applying pressure to the mold to cause the more plastic portion of the biscuit to flow into parts of the mold adapted to form the thin portions of the article in advance of the flow of the less plastic portions of the biscuit.

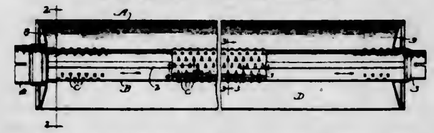
1,949,073
SEWING MACHINE
Horace F. Gruman and Charles L. Knower, Kirkwood, Mo.
Application May 12, 1933. Serial No. 670,630
12 Claims. (Cl. 112—166)

1. A sewing machine of the character described, comprising, a base, a main shaft journaled horizontally on said base, an auxiliary shaft journaled on said base substantially parallel to and rearwardly of said main shaft, operating connections between said shafts, a needle arm fixed to said auxiliary shaft and extending forwardly over said main shaft, a looper bracket pivoted on said base below the forward end of



said arm, a looper movable for vibration on said bracket, connections from said auxiliary shaft to swing said bracket on its pivot, and connections from said main shaft to vibrate said looper on said bracket.

1,949,074
MUFFLER
Earl G. Gunn, Racine, Wis., assignor to Walker Manufacturing Co., Racine, Wis., a corporation of Wisconsin
Application November 9, 1932. Serial No. 641,866
5 Claims. (Cl. 137—160)



5. A sound muffler of the class described, including a tubular member having an inlet and an outlet and forming a through passage for the stream of gases and having a plurality of openings in its wall, a shell surrounding said tubular member and spaced therefrom to form a chamber around said tubular member having communication with said tubular member through said openings, said shell being closed to the outer atmosphere, and means within said chamber associated with said openings for causing the pressure waves entering said chamber through said openings to impart rotary movement to the body of gas in said chamber for attenuating said pressure waves.

1,949,075
ROCK DRILL
Mervin Chester Huffman, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 15, 1930
Serial No. 502,440
8 Claims. (Cl. 255—45)

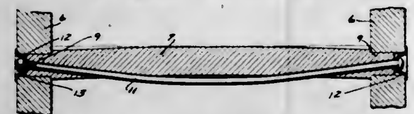
6. The combination with a drifter type rock drill having a drill steel and a guide shell having guideways with which the guides on the drill cooperate, of a drill steel centralizer comprising relatively pivoted members embracing the drill steel, said shell having an integral ledge portion in advance of the guideways, and means for securing the centralizer to said ledge portion, said ledge portion having a recess having inclined side walls and said centralizer having in-

clined surfaces engaging said inclined side walls so that when the securing means is tightened,



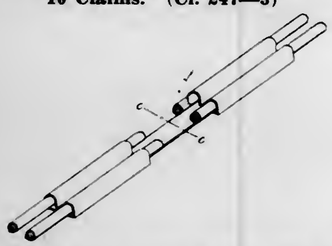
the centralizer is held in position with a wedging action.

1,949,076
LADDER
John E. Kalgren, Minneapolis, Minn., assignor to J. R. Clark Company, Minneapolis, Minn., a corporation of Minnesota
Application April 6, 1932. Serial No. 603,481
4 Claims. (Cl. 228—58)



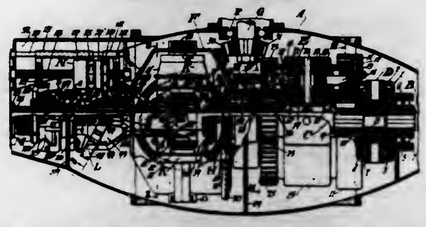
1. A ladder comprising rails and rungs having reduced ends inserted into holes in said rails, said rungs having oblique rod passages extending to the ends thereof, and rods passed through the oblique passages of said rungs and provided at their ends with means for clamping the rails onto said rungs, said rods being put under such tension that said rungs will be bowed in a direction reverse to the downward bow of said rods.

1,949,077
ELECTRIC WIRING STRIP AND METHOD FOR MAKING SAME
Louis Kalischer, Brooklyn, N. Y.
Application October 15, 1931. Serial No. 568,900
10 Claims. (Cl. 247—3)



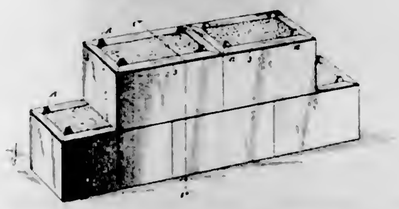
1. A wiring strip, comprising a pair of insulated wires and a metallic ribbon having portions of reduced width at predetermined distances therealong, the margins of the ribbon between such portions of reduced width being folded over said wires individually, the ribbon being of sufficient width to leave an unobstructed central space between the folded-over portions.

1,949,078
VARIABLE SPEED TRANSMISSION
Vernon Kinser, Purdy, Mo.
Application October 3, 1932. Serial No. 636,042
34 Claims. (Cl. 74—34)



12. In a variable speed transmission, co-axial driving and driven members, co-operating pairs of intermediate elements connected for actuation of each element of a pair reversely of and by the other in respective engagement with the driving and driven members, a revolvable member supporting said elements for revolution bodily thereof about the co-axis of the driving and driven members, co-operable oscillatory members actuable in timed relation by and with the driving member, and mechanism for connecting the supporting member with the respective oscillatory members during movement thereof in one direction for converting the motion of the oscillatory members into unidirectional revolution of the supporting-member.

1,949,079
METAL COVERED BRICK
Rudolph W. Loeffler, Baltimore, Md.
Application November 23, 1931
Serial No. 576,758
11 Claims. (Cl. 72—35)

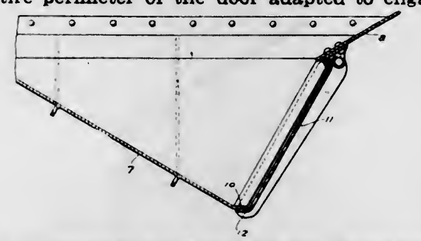


1. As an article of manufacture a metal covered brick comprising an unbroken ring of sheet metal having the form of a block open at the top and bottom, the same being filled with composition and being flat as to the top and bottom and without projection and capable of being laid like an ordinary brick.

1,949,080
HOPPER CAR CONSTRUCTION
Walter P. Murphy, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a corporation of Delaware
Original application October 2, 1929, Serial No. 396,665, now Patent No. 1,888,327, dated November 22, 1932. Divided and this application June 9, 1932. Serial No. 616,187
2 Claims. (Cl. 105—280)

1. In a railway hopper, the combination of a hopper door frame having a discharge opening provided with an inwardly flared door engaging surface bordering the entire perimeter of the hopper discharge opening, and a door provided with

an outwardly flared oblique surface bordering the entire perimeter of the door adapted to engage



the door engaging surface of the door frame when in closed position.

1,949,081
FRAME
Samuel E. Overton, South Haven, Mich.
Application May 15, 1933. Serial No. 671,060
8 Claims. (Cl. 40—155)



1. In an article of the class described, the combination of a back comprising a plurality of wood panels with abutting edges, paper tape hinges connecting said panels, a plurality of side pieces of molding disposed end to end around the periphery of said back to from a frame without joints, each side piece being rabbeted to form a glass receiving recess and having curved ornamental ends, a sheet of glass extending into said rabbeted recess and corresponding to said back, and screws extending through said back and into said side pieces whereby said side pieces clamp and support said glass in said rabbeted recess and against said back.

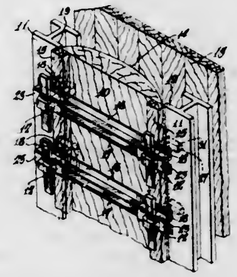
8. In an article of the class described, the combination of a supporting back, a plurality of side pieces of molding disposed end to end around the periphery of said back to form a frame with out joints, each side piece having curved ornamental ends, and means fastening said side pieces to said back, whereby the back maintains said frame parts in place.

1,949,082
METHOD OF OBTAINING HEAVY-METAL BERYLLIUM ALLOYS
Ernst Pokorny, Leipzig, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application May 24, 1932, Serial No. 613,270. In Germany May 28, 1931
6 Claims. (Cl. 75—1)

1. A method of obtaining an alloy of heavy metals of the group consisting of copper, iron, and nickel with beryllium, which comprises bringing a reducible compound of beryllium into contact with magnesium within a bath of molten heavy metal.

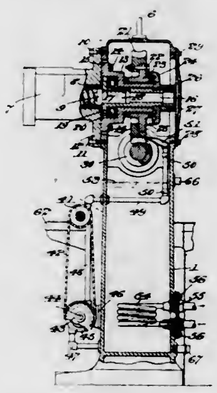
1,949,083
CONCRETE MOLD CONSTRUCTION
Otto Roberg, Philadelphia, Pa.
Application October 30, 1931. Serial No. 572,072
3 Claims. (Cl. 25—131)

1. In a mold that is intermediate spaced flanges of vertical structural members, a form, rails, hooks, pairs of cooperating angles, shoes and wedges, the form being intermediate the flanges, the rails fastening to the outside of the form along and adjacent to the flanges and laterally overlapping the flanges and having recesses at intervals to pass the outer portions of the hooks, the hooks having inner and outer hook ends directed laterally away from the form, the body portions of the hooks being located in the recesses and the inner hook ends overlapping the inside of the flanges, the cooperating angles of



each pair extending from rail to rail across the rails and having their inner flat faces fastened to the rails and their outwardly extending faces adjacent opposite sides of the body portions of the hooks, the shoes comprising inwardly directed channel portions, the body of the channel perforated to pass a hook and the inwardly extending sides of the channel enclosing between them the outwardly extending faces of the angles adjacent opposite sides of the hook and the wedges supporting the shoe between the outer hook ends of the hooks and the shoes.

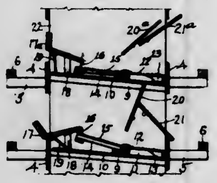
1,949,084
TUBING MACHINE
Vernon Royle, Paterson, N. J.
Application January 19, 1929. Serial No. 333,706
Renewed January 20, 1934
6 Claims. (Cl. 18—12)



1. A tubing machine comprising, a hollow pedestal housing open at its upper end, a hollow cover removably secured to the open upper end of the housing, an extruding head secured in part to one vertical side wall of the cover and in part to the coincident side wall of the housing in posi-

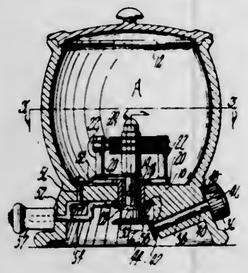
tion to overhang the housing, a screw within the head, and drive mechanism for the screw concealed within the cover and housing.

1,949,085
HEN'S NEST
Charles Z. Shallit, Tacoma, Wash.
Application September 16, 1931
Serial No. 563,105
5 Claims. (Cl. 119—47)



1. A hen's nest, including a floor board, a strip-mounted screen nest bottom on said floor board, the front part of said nest bottom made free to be slightly lifted from said floor board, a pivotally mounted trap door to said hen's nest, the front part of said nest bottom being attached to said trap door and adapted to be slightly lifted by the said trap door, said screen bottom and floor board being tapered toward said trap door, and said nest being inclosed within a nest house designed to receive, support and contain a multiple of said nests, and each nest being set to an incline from said trap door.

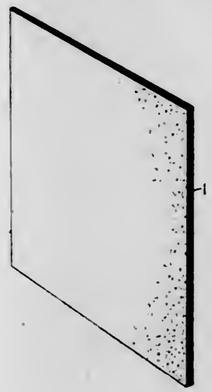
1,949,086
IMMERSION HEATING ELEMENT
John E. Smith, Belleville, Ill., assignor to Knapp-Monarch Company, Belleville, Ill., a corporation of Missouri
Application November 4, 1931. Serial No. 572,891
9 Claims. (Cl. 219—40)



1. In a liquid heater, a liquid container, a sleeve through the bottom thereof, an electrode rigidly supported by said sleeve, a shaft through said sleeve and a second electrode on said shaft and capable of movement relative to said first electrode when said shaft is rotated.

1,949,087
INSULATING MATERIAL
Merrill D. Squiers, Kalamazoo, Mich.
Application June 20, 1932. Serial No. 618,162
4 Claims. (Cl. 92—21)

1. The method of making insulating material, which comprises mixing 1500 lbs. of soft water and 100 lbs. of mineral wool, stirring into this mixture 10 lbs. of asphalt emulsion, and then



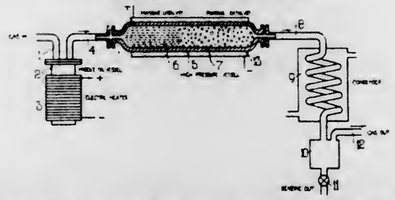
molding the material to produce the desired shape.

1,949,088
LIGHTING SYSTEM FOR TOY AUTOMOBILES
Louis Strohacker, Freeport, Ill., assignor to Structo Manufacturing Company, Freeport, Ill., a corporation of Illinois
Application December 17, 1932
Serial No. 647,837
5 Claims. (Cl. 46—48)

1. In lighting systems for toy automobiles, the combination of a metal toy automobile chassis, a battery holder mounted thereon, an electric battery supported by said battery holder, a switchboard formed of non-conducting material, mounted on the chassis and extending at right angles to the length of said battery and having an electric light circuit terminal contact member located adjacent a pole of the battery, a switch lever pivotally mounted on said switchboard and having an arm always contacting with a pole of the battery and arranged to make and break contact between said terminal contact member and the pole of the battery, and a contact piece contacting with the other pole of the battery and forming another terminal of said electric light circuit.

3. In lighting systems for toy automobiles, the combination of a metal toy automobile chassis provided with a bottom member having an opening therein, a battery holding strip extending across said opening, said strip being formed with a centrally located upwardly concaved part extending through said opening and downturned end parts teminating inwardly extending ledges, an electric battery engaging in said concave part of the battery holding strip, and a spring metal strip engaging said ledges with its middle part held in pressing engagement with said battery, whereby to hold the same in said concave part of the battery holding strip.

1,949,089
METHOD OF DESTRUCTIVE HYDROGENATION
Howard William Strong, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, London, England, a British company
Application June 19, 1930, Serial No. 462,438
In Great Britain June 19, 1929
1 Claim. (Cl. 196—53)



In a process for the destructive hydrogenation of heavy hydrocarbon oil in vapor phase in the presence of hydrogen under a total pressure of at least 10 atmospheres and at an elevated temperature, the improvement which comprises operating under the simultaneous influence of juxtaposed catalytic materials of the massive metallic and porous types, the said massive catalyst being iron coated with tin and the said porous catalyst being ferric oxide.

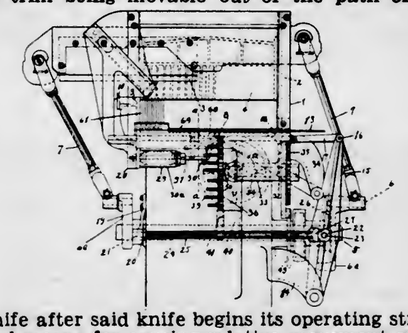
1,949,090
METHOD AND MATERIAL FOR COATING AND CLEANING METAL
Robert R. Tanner, Highland Park, and Herman Johan Lodeesen, Detroit, Mich., assignors to Metal Finishing Research Corporation, Detroit, Mich. a corporation of Michigan
No Drawing. Application November 17, 1930, Serial No. 496,328. Renewed July 21, 1933
7 Claims. (Cl. 148—6.5)

1. The method of coating metal which consists in forming a bath containing phosphate of metal of the group comprising zinc, manganese and iron, a soluble compound containing a metal less basic than the metal to be coated, and an oxidizing agent, maintaining the bath at room temperature, and immersing in the bath an article having a surface composed of iron, zinc, magnesium or alloys thereof.

4. A solution for coating metal of the group comprising iron, zinc and magnesium, comprising an aqueous solution of an acid phosphate of metal of the group comprising zinc, manganese and iron, a soluble compound of a metal less basic than the metal to be coated, and a nitrate, the total acidity as measured by phenolphthalein indicator being at least fifteen times the free acidity as measured by methyl orange indicator.

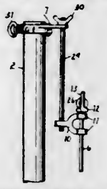
1,949,091
PAPER CUTTER AND PROCESS OF CUTTING PAPER
William L. Valiquette, Dayton, Ohio, assignor to The Harris-Seybold-Potter Company, Dayton, Ohio, a corporation of Delaware
Application July 26, 1930. Serial No. 470,925
21 Claims. (Cl. 164—48)

1. In a mechanical paper cutter having a cutting knife and means for holding down stacks of sheets during the cutting operation, means for advancing stacks of sheets and gauging means for determining the width of cut arranged to be abutted by the front edge of an advancing stack of sheets to be cut, said gauging means comprising an abutment set in the path of the knife for determining the width of trim, and a plurality of additional abutments successively farther from the knife for determining the successive widths of cut, said abutment for determining the width of trim being movable out of the path of the



knife after said knife begins its operating stroke, and means for causing relative movement of the abutments and the stacks of sheets to permit the sheets to pass successive abutments.

1,949,092
VALVE ROD GUIDE FOR FLUSH TANKS
John Van Dyke, Kalamazoo, Mich.
Application June 4, 1931. Serial No. 542,143
3 Claims. (Cl. 4—67)

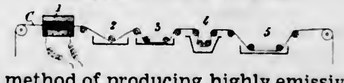


1. The combination with an overflow pipe, a ball valve having a lifting rod, and means for tripping said valve, of a guide for said rod comprising a bracket secured to said overflow pipe, a connecting rod carried by said bracket, means for changing the effective length of said rod, and an arm carried by said connecting rod and having a hole through which said lifting rod loosely extends.

1,949,093
ESTERS OF SECONDARY ALCOHOLS
Robert H. Van Schaack, Jr., Chicago, Ill., assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application September 25, 1930 Serial No. 484,470
5 Claims. (Cl. 260—103)

1. A neutral ester of ortho phthalic acid with a monohydric aliphatic secondary alcohol of boiling point above 132° C.

1,949,094
METHOD OF PRODUCING HIGHLY EMISSIVE CATHODES ACCORDING TO THE METALLIC VAPOR PROCESS
Ernst Waldschmidt, Berlin, Germany
Application June 14, 1932, Serial No. 617,237
In Germany June 20, 1931
6 Claims. (Cl. 250—27.5)



6. A method of producing highly emissive cathodes comprising the steps of purifying the surface

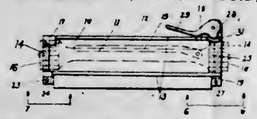
of a tungsten wire, heating it in an oxidizing atmosphere to produce a coating comprising the higher tungsten oxides and reducing said coating in a reducing atmosphere comprising water-steam and hydrogen to pure tungsten dioxide, vaporizing an alkaline metal on the said coating of pure tungsten dioxide.

1,949,095
LIFTING JACK
Warren H. Walker, Racine, Wis., assignor to Walker Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application April 22, 1933. Serial No. 667,480
10 Claims. (Cl. 254—6)



1. In a lifting jack, a carriage, a load-lifting lever pivotally mounted in the carriage, there being an opening in the lever, an internal arcuate rack formed in the lever concentric with its pivotal axis, a shaft mounted in the carriage and projecting through the opening in the lever, a rotatable pinion carried by the shaft substantially in the plane of the lever and meshing with the rack, an oscillatable hand lever mounted in the carriage to swing about the axis of the shaft, and pawl and ratchet mechanism for imparting step by step rotation to the pinion in either direction as the handle is oscillated.

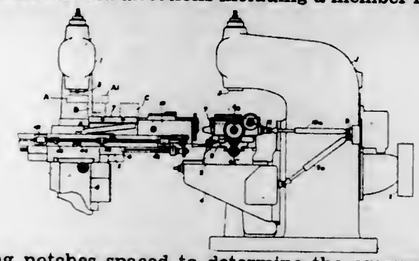
1,949,096
PERMANENT WAVE PROTECTOR
Samuel David Weinberger, New York, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a corporation of New York
Application December 19, 1930
Serial No. 503,395
20 Claims. (Cl. 132—36.1)



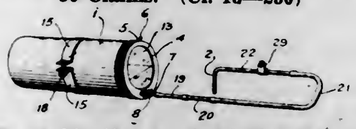
1. A permanent wave protector, comprising a body of substantial channel form in transverse cross section so that a curler may drop in and having upstanding lateral arms, means for holding a curler within said body, a bar with a resilient steam-proof covering disposed on the outer side of one of the arms of said channel and pivotally connected at one end on said arm, and a resilient catch on the other end of said bar for urging it against the side of arm.

1,949,097
MACHINE TOOL TRANSMISSION AND CONTROL MECHANISM
Joseph B. Armitage, Milwaukee, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis.
Application March 24, 1926. Serial No. 96,960
12 Claims. (Cl. 90—21)

1. The combination with a reciprocatory support and a rotary indexable table mounted thereon, of a power transmission connectible for table rotation at intervals and including an element shiftable in opposite directions to establish or to interrupt the transmission connection, a train connectible to reciprocate said support in a direction transverse to the axis of table rotation, power operated means for shifting said element in one of said directions including a member having notches spaced to determine the amount of table rotation during a given index movement, and means for shifting said element in the other direction including a part movable in accordance with the reciprocation of said support.

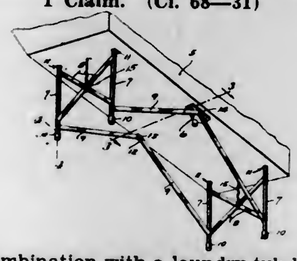


1,949,098
WINDSHIELD CLEARING DEVICE
Albert W. Becker, Hartford, Conn.
Application February 6, 1928. Serial No. 252,350
30 Claims. (Cl. 15—250)



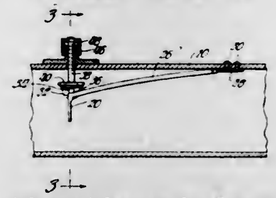
1. In combination, a windshield, a windshield wiper thereon, and means including a supply line independent of the wiper for delivering a localized supply of clearing fluid on the windshield for flow thereon intersecting the path of the wiper and distribution by the latter.

1,949,099
LEG BRACKET FOR LAUNDRY TUBS
Olof S. Burman, Minneapolis, Minn.
Application January 30, 1933. Serial No. 654,171
1 Claim. (Cl. 68—31)



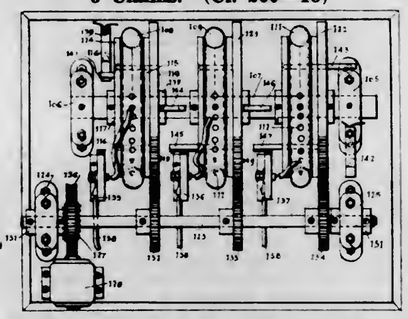
The combination with a laundry tub having at each end a pair of socket-like seats, a leg bracket at each end of the tub, each leg bracket comprising a pair of legs and cross braces connecting the legs, the upper ends of which loosely extend into the seats at the respective end of the tub, and an oblique brace rod for each leg bracket extending longitudinally of the tub, the brace rods being pivoted at their inner ends to the tub between the leg brackets, said leg brackets being pivoted near their lower end portions to the outer ends of the brace rods for independent compound bodily endwise movement to withdraw their legs from their seats and for inwardly swinging movement between the under side of the tub and the brace rods.

1,949,100
GUNSIGHT RETICULE ADJUSTMENT MEANS
Frank A. Fahrenwald, Chicago, Ill.
Application September 22, 1931
Serial No. 564,325
9 Claims. (Cl. 33—50)



1. In a sighting telescope for firearms having a tubular body, a sighting reticule, a flexible cantilever supporting element for said reticule, said supporting element being rigidly assembled to said telescope inside the body thereof and engaging the same axially remote from said reticule, and means for flexing said reticule supporting element to effect both windage and elevation adjustment of said sighting reticule.

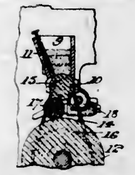
1,949,101
SYSTEM IN ILLUMINATION AND PARTICULARLY TO APPARATUS THEREFOR
Mary Hallock Greenewalt, Philadelphia, Pa.
Original application April 26, 1924, Serial No. 709,283, now Patent No. 1,793,284. Divided and this application February 3, 1927. Serial No. 165,621
3 Claims. (Cl. 200—18)



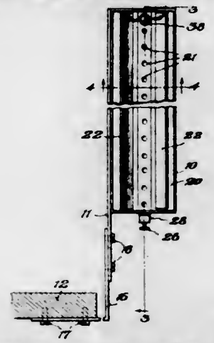
2. In a system of the kind recited a multiple current modifying means, a rotatable shaft having spaced gears fixed thereon, a fixed shaft parallel to the first shaft and having revoluble gears thereon, current limiting means carried by said second gears, means whereby movement is imparted to a subsequent current modifying gear means after movement of a preceding gear.

1,949,102
ANTIOFFSET MECHANISM FOR PRINTING PRESSES
Richard J. Greenway, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application September 24, 1931
Serial No. 564,771
6 Claims. (Cl. 91—59)

1. An anti-offset mechanism comprising an anti-offset powder supply fountain, a fountain roll, a web contacting roll for applying the anti-offset powder to the freshly printed face of a web, and an anti-offset powder transfer roll for transferring the anti-offset powder from the fountain roll to the web contacting roll, the web contacting roll having its web contacting surface of soapstone.

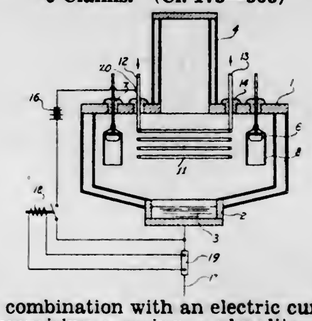


1,949,103
ROLL NECK LUBRICATOR FOR ROLLING MILLS
Harry E. Kettlewell, Poland, and Louis Petitclaire, Struthers, Ohio, assignors to Industrial Grease Company, a corporation of Ohio
Application July 22, 1932. Serial No. 624,116
16 Claims. (Cl. 184—14)



1. A lubricator for roll necks of rolling mills and the like comprising a container, an outlet for said container extending throughout the length thereof, electrical heating means within said container for supporting and melting a cake of grease, and means for supporting the container in operative relation to the necks of the rolls to be lubricated.

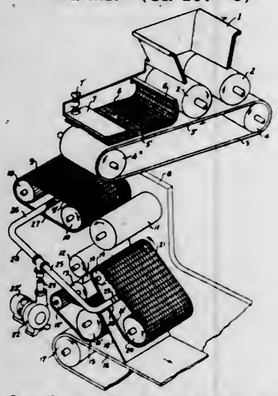
1,949,104
ELECTRIC CURRENT RECTIFIER
Ernst Kobel, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application May 28, 1931, Serial No. 540,665, and in Germany June 6, 1930
6 Claims. (Cl. 175—363)



1. In combination with an electric current rectifier comprising a casing, a plurality of anodes and a vaporizable cathode constituting arcing

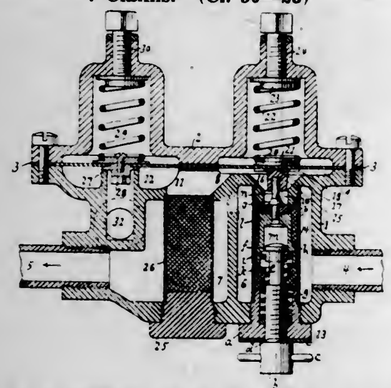
electrodes for the flow of electric current therebetween, of means arranged within said casing external to the path for flow of current between said anodes and cathode operable to condense material vaporized from said cathode, and means for impressing upon the first said means electric potential negative with respect to the potential of said cathode.

1,949,105
DOUGH WORKING MACHINE
Frank X. Lauterbur and Edward J. Lauterbur, Sidney, Ohio; Wilhelmina S. Lauterbur and Leo V. Lauterbur executors of said Frank X. Lauterbur, deceased.
Application March 6, 1931. Serial No. 520,511
11 Claims. (Cl. 107—9)



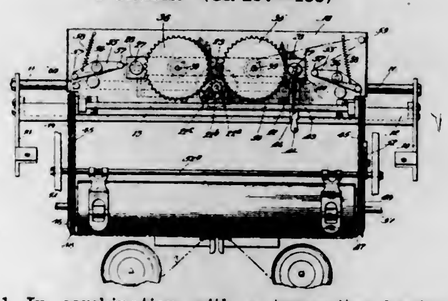
3. In a dough working machine, a pervious moving wall and curling means facing each other, said wall contacting with the dough to hold it to said curling means, and means for forcing a gaseous medium through the pervious wall and out past the contacting surface of said wall.

1,949,106
PRESSURE REGULATING DEVICE FOR A HOT WATER HEATING SYSTEM
Jacob Manneschmidt, Jr., Brooklyn, N. Y.
Application April 13, 1929. Serial No. 354,862
7 Claims. (Cl. 50—23)



1. In a pressure regulating device for a hot water heating system, in combination, an inlet chamber, a pressure regulating chamber closely adjacent said inlet chamber, a passageway connecting said chambers, a valve mounted in said inlet chamber adapted to close said passageway and capable of occupying two open positions, in one of which said valve permits the passage of only a sufficient amount of water through said passageway to regulate the pressure in the system, and in the other of which said valve permits the passage of a strong stream of water through said passageway for filling the system, said valve having a movable member extending through said passageway into said pressure regulating chamber, said movable member having a cross-section comparatively small with respect to the cross-section of said passageway, means for normally holding said valve in closed position, a diaphragm in said pressure regulating chamber coacting with said movable member to open said valve to pressure regulating position when the pressure in the system drops, means for overcoming the action of said first named means whereby said valve is opened to system filling position.

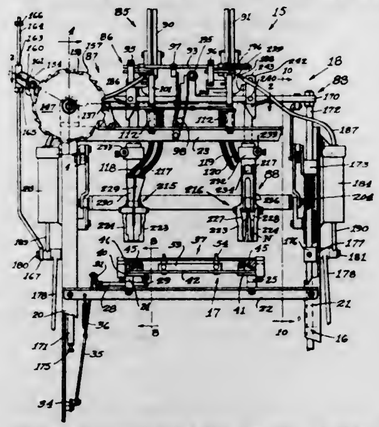
1,949,107
APPARATUS FOR HOLDING AND FEEDING TYPEWRITER RIBBONS
Harold Thomas Mosfelt and Harold Schagerholm, Chicago, Ill., assignors to Ross J. Beatty, Chicago, Ill.
Application September 11, 1931
Serial No. 562,214
5 Claims. (Cl. 197—153)



1. In combination with a typewriter having a longitudinally movable platten, ribbon holding and feeding mechanism comprising a carriage mounted to move concurrently with the platten, a rack fixedly mounted, a shaft journaled on said carriage, a gear fixed to said shaft and co-operating with said rack, a ratchet clutch the drive member whereof is actuated by said shaft, a gear actuated by the driven member of said clutch, a pair of gears spaced with respect to each other and movably mounted with respect to said carriage whereby they may be moved to bring each gear respectively in train with the gear associated with said driven clutch member, ribbon spools carried by said pair of gears and ribbon guides carried by and extending from said carriage into co-operative relation with the platen of said typewriter.

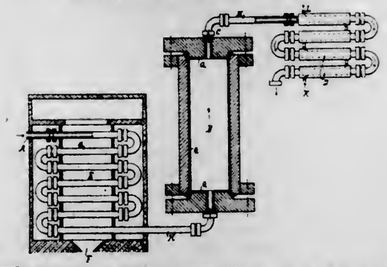
1,949,108
METHOD OF AND APPARATUS FOR NAILING CRATES
Hale Paxton, Redlands, Calif., assignor to Paxton Credit Corporation, Sanger, Calif., a corporation of California
Application July 31, 1931. Serial No. 554,210
19 Claims. (Cl. 1—8.1)

2. In a machine for nailing crate heads, crates, shipping cases and the like, the combination of: a nail stripper; a nail pick for picking nails successively from a single runway of said stripper; a plurality of nailing means spaced along a given line; means for moving the work along a given path transversely relative to said line; and switch



means for selectively feeding each of the nails delivered by said pick from said runway to one or the other of said nailing means.

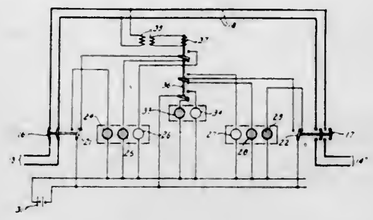
1,949,109
REACTION WITH HYDROGEN AND IN APPARATUS THEREFOR
Mathias Pier, Heidelberg, Kurt Wissel, Ludwigshafen-on-the-Rhine, and Walter Dinkler, Mannheim, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a corporation of Delaware
Application June 13, 1930, Serial No. 460,940
In Germany June 27, 1929
9 Claims. (Cl. 196—53)



1. The process of converting a carbonaceous substance into a valuable liquid, which comprises subjecting the said substance to destructive hydrogenation by means of a hydrogenating gas and heat at a temperature sufficient to promote the conversion and at a pressure of at least 20 atmospheres in a reaction vessel the inner surface of which is constructed of a zinc alloy having a melting point above 500° C.

1,949,110
SUPERVISORY ILLUMINATED CONTROL DIAGRAM
Otto Plechl, Pfaffstatten, near Vienna, Austria, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland, a joint-stock company of Switzerland
Application March 5, 1931, Serial No. 520,315
In Austria March 6, 1930
5 Claims. (Cl. 177—311)

1. In a selective signaling system, an electric circuit, apparatus adjustable to one and another position to permit and prevent the application of electrical potential thereto, an opaque panel having transparencies symbolic of said apparatus and to indicate the application and non-application of potential to said circuit, a plurality of signal lamps operable to illuminate said transparencies in different colors to thereby indicate the adjusted positions of said apparatus and the application and non-application of potential of said circuit, and means actuated to one position responsive to application of potential to said circuit and actuated to another position upon cessa-



tion of application of potential to said circuit operable thereat to control the selective operation of certain of said lamps, the cojoint adjustment of said apparatus to the said one position thereof and the actuation of said means to the one and another position thereof being operative to selectively cause operation of certain other of said lamps, and the adjustment of said apparatus to the said another position thereof being operative to cause operation of another of said lamps.

1,949,111
SURGICAL SUTURE
George M. Randall, Daytona Beach, Fla., assignor to Plastic Products, Inc., Daytona Beach, Fla., a corporation of Florida
No Drawing. Application July 7, 1930
Serial No. 466,040
5 Claims. (Cl. 128—335.5)

1. A synthetic surgical suture comprising a thread of absorbable animal tissue in its original chemical state homogeneously distributed through a cellulose base material.

1,949,112
RIVETED PLATED ALUMINIUM ARTICLE
Gustav Schreiber, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application July 8, 1931, Serial No. 549,574. In Germany July 18, 1930
4 Claims. (Cl. 29—181)

1. A structure comprising sheets of a high strength aluminum alloy coated with technically pure aluminum and rivets joining such sheets, the rivets being composed of a high grade aluminum alloy containing between about 4 and 7% of magnesium and having an electrolytic potential remaining approximately equal to that of technically pure aluminum.

1,949,113
STADIUM SEAT
Charles H. Cox, Philadelphia, Pa.
Application November 18, 1930
Serial No. 496,394
2 Claims. (Cl. 155—133)

2. A stadium seat comprising a wooden back, a pair of rods turnably secured to the back and each having a bent portion spaced from the back

and having hooks at the opposite ends from the

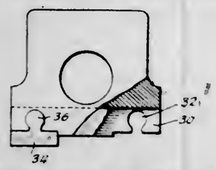


back, and means for preventing the back from sliding on the rods in either direction.

1,949,114
SHIM

Bradford Darrach, New York, N. Y., assignor to Laminated Shim Co., Inc., Long Island City, N. Y., a corporation of New York

Application September 13, 1930
Serial No. 481,689
8 Claims. (Cl. 308—244)

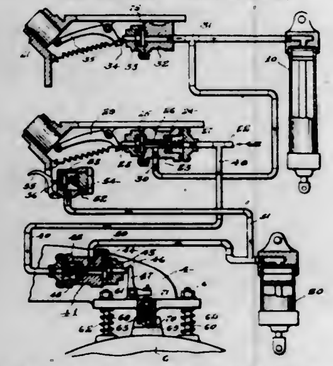


1. In a bearing shim of the class described, a combination of an elongated body portion, a front edge, a tongue portion projecting from the ends of said body portion and being recessed from said front portion, said tongue being of substantially less thickness than the body portion and a facing member adapted to be formed on said tongue portion and interlocked thereto, said facing member projecting beyond the face portion of said body member.

1,949,115
GARMENT OR IRONING PRESS

Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a corporation of New York

Application May 10, 1930. Serial No. 451,454
16 Claims. (Cl. 68—9)



5. In a power pressing machine, a movable supporting member, a pressing jaw movably mounted on the supporting member; a motor for operating the pressing machine; means controlling the operation of the motor; and means operated by the movement of the pressing jaw, with respect to its supporting member, for operating the motor controlling means.

1,949,116
REAMER

Gerard A. De Vlieg, Rockford, Ill.

Application December 24, 1930
Serial No. 504,564
6 Claims. (Cl. 77—75.5)

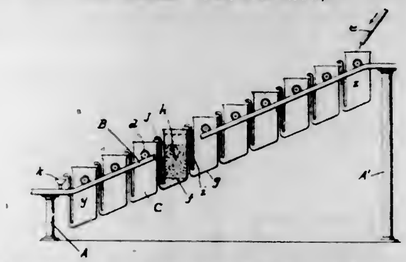


3. A reamer comprising, in combination, a shank, a plurality of separate generally longitudinally extending blades on said shank, said blades being radially adjustable upon movement longitudinally of said shank, adjustable means on said shank for clamping said blades at one end, each blade at the other end being formed with a generally radial surface facing endwise and a longitudinal surface generally parallel to the reamer axis and facing outwardly, a deformable ring adjustably mounted on said shank, one end of said ring engaging said radial surfaces of said blades and the inner periphery of said ring engaging said longitudinal surfaces, and clamping means on said shank engaging the other end of said ring.

1,949,117
APPARATUS FOR RECOVERING MATERIAL USED IN GRAVITY SEPARATION

Francis I. du Pont, Wilmington, Del.

Application June 27, 1930. Serial No. 464,248
1 Claim. (Cl. 23—270)



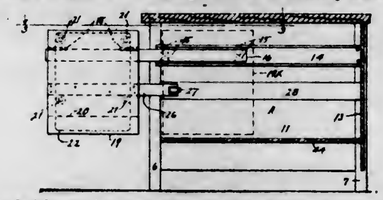
Apparatus for the recovery of material from a solid which includes a sloping support, a plurality of independent containers for batches of the substance arranged in a series on said support, means for introducing liquid into the container at the highest level on said support, means for supporting the batches in spaced relation from the bottom of each container, and means for guiding liquid from beneath the batch of each container into the next lower container, said support including upper and lower extensions for placement and removal of containers.

1,949,118
TYPEWRITER ATTACHMENT FOR DESKS

Martin A. Earley, St. Paul, Minn.

Application September 8, 1931, Serial No. 561,709
Renewed July 13, 1933
2 Claims. (Cl. 312—29)

1. In a supporting device for typewriters and the like adapted to be mounted within and between parallel transverse walls of a desk compartment and under the top of such desk; said supporting device comprising an upper main horizontal rail fixed to one of said walls, a secondary guide rail mounted parallel to and below said main rail, a platform carriage slidably mounted and guided by the main rail and comprising a horizontal bar with suitable roller means engaging the main rail, a platform hingedly secured to the outer portion of said bar and suspended therefrom when the bar is within the compartment and adjacent a wall thereof, a fixed bar projecting inwardly from the under side of said platform and provided at its inner end with roller means adapted to engage the secondary rail when

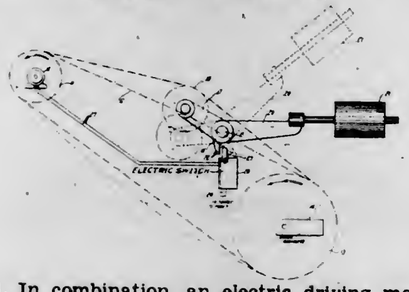


the platform is suspended as described, means for securing a typewriter or the like to one side of said platform, and bracket means hingedly secured to the opposite wall of said compartment and adapted to be swung under the said platform when the latter is raised to horizontal plane exteriorly of the compartment.

1,949,119
AUTOMATIC STOP FOR ELECTRICALLY DRIVEN MACHINES

William J. Gibbs, Brooklyn, N. Y.

Application October 5, 1929. Serial No. 397,576
3 Claims. (Cl. 192—150)



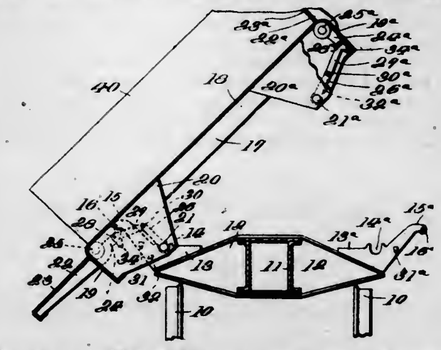
1. In combination, an electric driving motor, a driving element driven by the motor, a driven element, an endless driving member around said driving and driven elements, an electric switch for controlling the circuit of the electric motor, and means for opening the switch in response to an overload, said means including a weighted bell crank lever interposed between said elements and having a contact member for actuating said switch and also having a rotary idler on one end thereof bearing against the pulling side of the endless driving member and maintaining a hump therein, said endless driving member tending to take up said hump under influence of overload to move the bell crank lever.

1,949,120
DUMP VEHICLE WITH ACTUATED DOORS

Henry Fort Flowers, Findlay, Ohio

Application April 8, 1926. Serial No. 100,576
31 Claims. (Cl. 105—276)

1. In a dump vehicle, a frame, a dump body tiltable for dumping to either side about fulcrums at opposite sides of the frame, said dump body being supported in stable equilibrium upon said fulcrums during normal transport, side doors for said dump body, means carried by said frame to hold said doors closed during normal transport and to control the opening and closing of the respective door during the tilting toward the side adjacent thereto and the returning therefrom, and door controlling devices for each of said



doors carried by said body to maintain the respective door closed when the respective side of the body is raised from said frame.

1,949,121
SHIPPING BAG

Raymond Frederick Herder, Bloomfield, N. J., assignor to George & Sherrard Paper Co., New York, N. Y., a corporation of West Virginia

Application May 16, 1930 Serial No. 452,888
1 Claim. (Cl. 229—88)



A paper shipping bag for bananas having a longitudinal stripe thereof marked off for removal by weakened tear lines, and having a permanently closed end with a stem opening provided therethrough, means forming a reinforcement for the closed end, said reinforcement being completely broken through and interrupted by the stem opening, the tear lines being long enough to provide a sufficient opening to permit full inspection of the bananas without removing the bunch from its support and extending to a finger opening which is located in proximity to the stem opening and adapted to facilitate tearing through to the stem opening to enable the bag to be removed from the bunch without removing the bunch from its support.

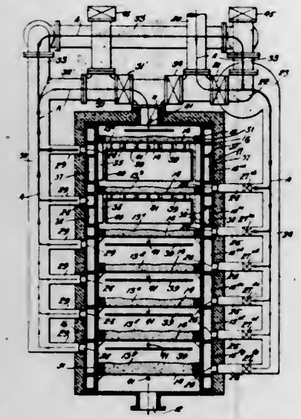
1,949,122
APPARATUS FOR USE IN THE CATALYTIC OXIDATION OF GASES

Robert C. Jeffcott, Somerville, N. J., assignor to Calco Chemical Company, Inc., Bound Brook, N. J., a corporation of Delaware

Application July 5, 1929. Serial No. 376,037
11 Claims. (Cl. 23—288)

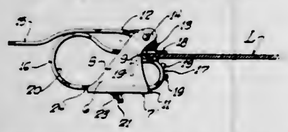
1. In apparatus for the catalytic oxidation of gases, a converter, a plurality of separated

catalytic masses arranged in series in the converter, separate heat-absorbing ribs extending inwardly from the portions of the wall of the converter between different pairs of adjacent masses, corresponding separate heat-radiating ribs extending outwardly from said portions of the wall of the converter, means providing separate annular chambers surrounding said separate external ribs, and separately regulatable means for circulating cooling gas in said chambers.



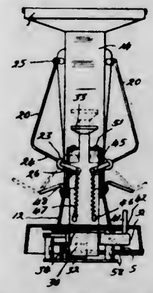
5. In apparatus for the catalytic oxidation of gases, a converter comprising a casing having inlet and outlet openings at opposite ends thereof, a plurality of foraminous trays supported in said casing, spaced catalytic masses resting on said trays, baffling means between said trays for causing gases after passing through each catalyst layer, to be deflected outwardly into contact with the converter casing between the trays, separate means for withdrawing heat from each of the zones of the outer wall of the casing between each pair of trays, and separate means for regulating the amount of heat withdrawn from each such zone of the outer wall.

1,949,123
TOGGLE CLIP
Ira Milton Jones, Milwaukee, Wis.
Application September 11, 1931
Serial No. 562,286
6 Claims. (Cl. 24—84)



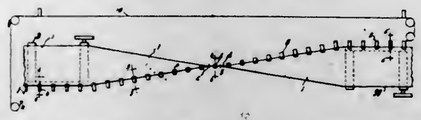
1. A toggle clip comprising a spring member bent medially upon itself to provide a finger engaging portion and overlying end portions forming clamping jaws yieldably maintained open by the normal resiliency of the spring member, a supporting frame having spaced side walls connected by a third wall, the spring member being disposed between the spaced side walls with one end portion engaging the third wall, lever means pivotally carried by the spaced side walls and engageable with the other of said overlying end portions to forcibly close the jaws, a hook struck from the third wall of the supporting frame, and a tang struck from the spring member and engageable in the opening formed by striking the hook from the third wall of the frame, for readily detachably maintaining the spring member assembled with the supporting frame.

1,949,124
TOASTER
Frank Kuhn and Laurence H. Thomas, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a corporation of Michigan
Application July 8, 1929. Serial No. 376,689
17 Claims. (Cl. 53—5)



1. In a toaster, a holder for supporting a bread slice in toasting position, said holder being movable to and from toasting position, a slidable member for moving said holder to toasting position, a latch engageable with said member for retaining said holder in toasting position, and a yieldable connection between said member and said holder for actuating the latter from the former while permitting said holder to adapt itself to the thickness of the bread slice.

1,949,125
APPARATUS FOR DRYING PAPER
Frank C. Ladd, Turners Falls, Mass.
Application April 4, 1931. Serial No. 527,704
7 Claims. (Cl. 34—48)



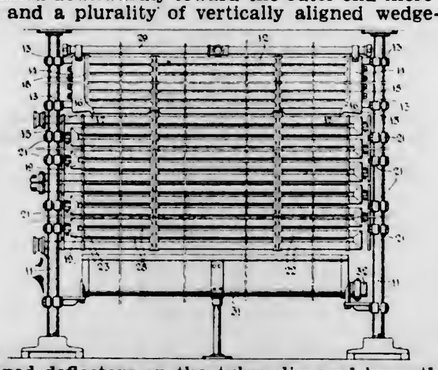
7. An apparatus for drying paper comprising a drying room suitable for drying paper under the loft-dried method, an endless conveyer having a long path in said drying room, said conveyer having releasable means to hold a continuous web of paper solely along one edge so that it hangs vertically and with both sides well exposed and out of contact with all parts of the apparatus except said edge holding means for drying as it travels in said room, and mechanism associated with said conveyer to operate the releasable means as the paper shrinks in the drying operation

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1,949,126
MILK COOLER
Albert T. Light, Canton, Ohio, assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application June 16, 1931. Serial No. 544,861
4 Claims. (Cl. 257—183)

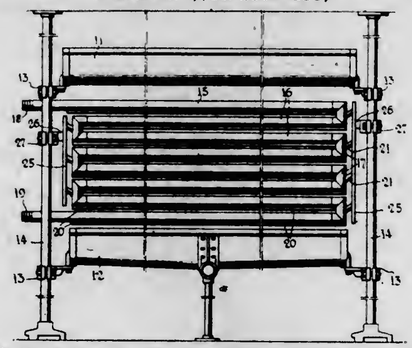
1. In a milk cooler, a plurality of superposed horizontal cooling tubes; a pre-cooler disposed above said tubes; a header at each end of the pre-cooler, the bottom surface of each header being

inclined downwardly toward the outer end thereof; and a plurality of vertically aligned wedge-



shaped deflectors on the tubes disposed beneath said inclined surfaces.

1,949,127
HEAT EXCHANGER
Albert T. Light, Canton, Ohio, assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application February 20, 1932. Serial No. 594,263
6 Claims. (Cl. 257—183)



4. In a heat exchanger of the trickler type, a plurality of superposed substantially horizontal tubes; return bends connecting successive tubes to form a passage for heat exchanging fluid, said tubes and bends being located in the path of trickling flow; a sustaining plate at opposite ends of the tubes adjacent the return bends and outside the path of trickling flow; and supporting lugs on certain return bends, said lugs being inclined upward from their respective bends to a point of connection with the plates, the inclination of the lugs serving to preclude flow of trickling liquid along the lugs to the plates.

1,949,128
IGNITION POINT FILE
Rikio Nakano, Honolulu, Territory of Hawaii
Application February 18, 1933. Serial No. 657,423
1 Claim. (Cl. 29—78)

An improved ignition point file comprising a file portion squared at one end and a handle portion integrally secured thereto at the other end, said handle portion being folded back upon itself forming a clip portion and a lower portion, said clip portion being of substantially the same width as said lower portion thereby producing a handle of greater thickness than that afforded by said lower portion alone, said clip portion ending in a clip end, said clip end being semi-spherical and depressed toward the file whereby said clip end may be easily forced over a pocket edge to hold the ignition point file therein, said depressed semi-spherical clip end serv-

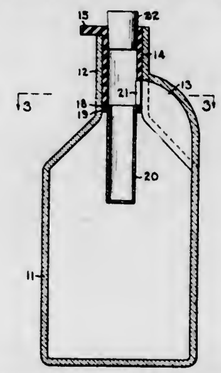


ing to bring the pocket material against the file body with great security.

1,949,129
PROCESS FOR THE CONVERSION OF THE GYPSUM CONTAINED IN SUPERPHOSPHATE INTO AMMONIUM SULPHATE
Hermann Oehme, Cologne-Kalk, Germany, assignor to Chemische Fabrik Kalk, Gesellschaft mit beschränkter Haftung, Cologne-Kalk, Germany
No Drawing. Application January 27, 1930, Serial No. 423,907. In Germany February 7, 1929
6 Claims. (Cl. 71—9)

1. A process for making dry fertilizer from superphosphate which contains gypsum and for converting said gypsum into ammonium sulphate, which comprises neutralizing the superphosphate with ammonia, mixing the neutralized product thoroughly with ammonium carbonate, and only a little water, thus converting the gypsum into ammonium sulphate, and then removing the ammonium carbonate by blowing off, the quantity of water used being so small that the product thus obtained is in a dry comminuted state and is directly ready for use for strewing on the fields without preliminary drying or pulverization.

1,949,130
MEASURING BOTTLE
Grant Renfro, Covington, Ky.
Application February 16, 1933. Serial No. 657,080
2 Claims. (Cl. 215—57)

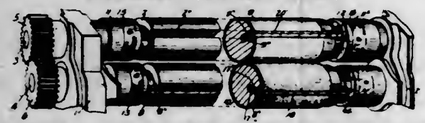


1. A measuring closure for a bottle having a port in the side wall of the neck communicating with the body of the bottle, comprising a rotatable, flexible, tubular element having an opening in the side wall thereof adapted to be turned into and out of registry with the port in the bottle and a measuring receptacle mounted in the end of the tubular element extending toward the body of the bottle and a closure for the other end of the tubular element.

1,949,131
RHODIUM PLATING
Thomas P. Shields, Newark, N. J.
No Drawing. Application November 14, 1932
Serial No. 642,685
5 Claims. (Cl. 204—1)

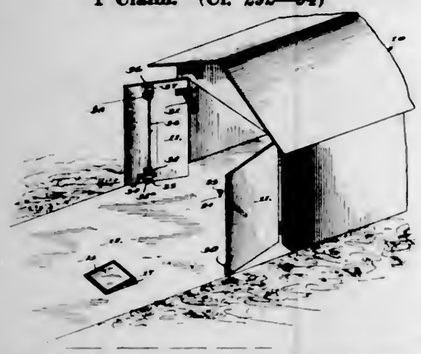
1. An electrolyte adapted to deposit a bright, lustrous layer of rhodium on a metal, comprising an aqueous solution of a soluble rhodium salt, a soluble aluminum salt and a free mineral acid.

1,949,132
PRINTING PRESS
Walter Harold Smith, Toronto, Ontario, Canada
Application October 13, 1931. Serial No. 568,603
3 Claims. (Cl. 101—415.1)



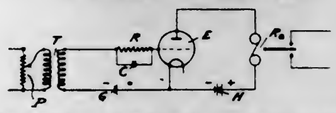
3. In a press cylinder having a narrow deep longitudinal groove having parallel walls, of a printing element having inturned end edge portions, one of said inturned ends fitting against one wall of the groove, a bar equal in width to the distance between both inserted inturned element ends one side face of which slidably bears against one inserted element end during the bar's insertion, and teeth formed on the other side face of the bar equal in depth to the thickness of the element so that the cutting edges of the teeth reach the other side wall of the groove and adapted when engaged to tear into the other inturned edge portion of the element as it is drawn thereby into the groove and as the tension of the element aproaches the stretching point of the element.

1,949,133
DOOR OPERATING MECHANISM
William A. Smith, Cortland, N. Y.
Application February 26, 1931, Serial No. 518,530
Renewed September 26, 1933
1 Claim. (Cl. 292—94)



A latch release mechanism for doors comprising a reciprocating rod mounted on a spring-pressed door, a latch means connected with one end of the rod, a cross head connected with the other end of the rod and having a slotted lug, means provided with an arm having a head adapted to be received by the slotted lug with the head engaged by said lug, said arm adapted to be reciprocated for reciprocating the rod, a reciprocating means for the arm, the head and lug cooperating with the latch means for retaining the door in closed position, and means connected with the arm for retaining a second spring-pressed door in closed position and releasable when the reciprocating means is operated to permit the spring to open the second door.

1,949,134
SIGNAL RECEIVER
Mauritz Vos, Stockholm, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a company of Sweden
Application April 23, 1931, Serial No. 532,310
In Sweden April 29, 1930
2 Claims. (Cl. 178—66)



1. An arrangement for receiving alternating current telegraph signals comprising in combination, a thermionic valve rectifier, a direct current relay responsive to a predetermined minimum strength of current in the anode circuit of said valve, a direct current source in the grid circuit of the valve impressing a negative grid biasing voltage on the grid so as to reduce normally the anode current substantially to zero, a grid leak in series with said battery and dimensioned so as to produce, under the influence of incoming oscillations of an amplitude exceeding a certain predetermined value, a grid rectification counter-acting the anode rectification and a condenser shunted across said grid leak.

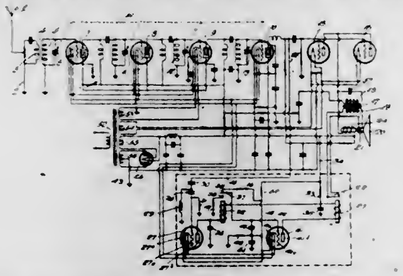
1,949,135
METHOD OF MANUFACTURING VESSELS
Johann Karl Wirth, Berlin, Germany, assignor to Säureschutz Gesellschaft mit beschrankter Haftung, Berlin-Altglienicke, Germany
Application January 3, 1930, Serial No. 418,308
In Germany April 26, 1929
4 Claims. (Cl. 18—59)



4. A method for manufacturing vessels and the like especially for chemical purposes from phenol-aldehyde condensation products coated upon a perforated, recessed or slotted metallic base comprising impregnating paper with sodium bisulphate to destroy said paper when heated, then covering said perforations of said base with said paper, then coating said paper with a layer of said condensation products, then hardening said coating, then forcing said condensation product into the space between said base and said hardened coated layer and the perforations by pressing to secure a good bond between said coated layer and said base and then hardening said condensation product.

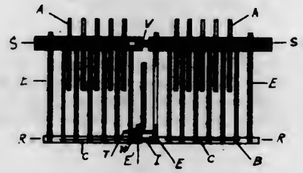
1,949,136
RADIO RECEIVING SYSTEM
George P. Adair, San Antonio, Tex.
Application September 8, 1931. Serial No. 561,758
17 Claims. (Cl. 179—1)

1. In a radio receiving system, means for receiving signaling energy, a sound reproducing system, an auxiliary control circuit connected with said signal receiving means and means controlled by said auxiliary control circuit for discriminating against programs of different characteristics received by said signal receiving means



for correspondingly controlling the continuity of the circuit between said signal receiving means and said sound reproducing system.

1,949,137
VARIABLE CONDENSER
John J. Aurynger, Takoma Park, Md.
Application November 30, 1932
Serial No. 645,076
4 Claims. (Cl. 175—41.5)



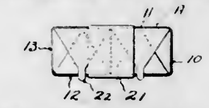
1. In a polycondenser consisting of a plurality of condenser sections longitudinally disposed with respect to each other, each of said sections comprising rotor and stator elements forming a rotor and stator unit for each section, said sections being electrically cross-connected by a hollow metal journal frame which is electrically connected to stator of one section and electrically connected to rotor unit of adjacent section, said metal journal frame cooperating with a metal panel also connected to the stator unit of said one section, and forming an element thereof, the spacing between said metal panel and said metal journal frame altered for controlling a secondary capacity formed by said panel and the end stator element of the oppositely charged stator unit of said adjacent section.

1,949,138
TRANSPARENT, PRISMOIDAL MIRROR
Walter Joel Bell, Los Angeles, Calif.; Byron D. Bell executor of said Walter Joel Bell, deceased
Application January 2, 1929. Serial No. 329,792
10 Claims. (Cl. 88—1)



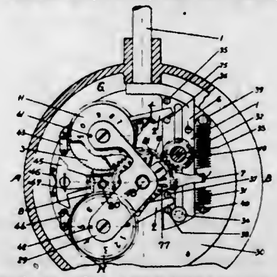
1. In a vehicle driver's observation accessory a rear vision mirror device for night use including a transparent, chromo-prismoid with convergent front and back faces at such relative angles as to clearly isolate plural reflections of a common rear-field object.

1,949,139
CIGARETTE PACKAGE
Harvey R. Bethke, Milwaukee, Wis.
Application March 6, 1933. Serial No. 659,807
3 Claims. (Cl. 206—41)



1. A pocket cigarette package comprising an outer paper container having an open upper end, two individual sealed packages of ten cigarettes each arranged within the container and disposed on opposite sides of the transverse center of the container, each of the individual packages including a wrapper having sealing flaps, a gummed strip disposed over the individual packages and connected with the side walls of the container, certain of the flaps of the individual packages lying on opposite sides of the gummed strip.

1,949,140
CRYPTOGRAPHIC APPARATUS
Peter Georg Grove Beyer, Copenhagen, Denmark
Application January 25, 1932, Serial No. 588,795
In Denmark January 24, 1931
12 Claims. (Cl. 197—4)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

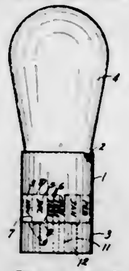


1. A cryptographic apparatus comprising three concentrically arranged annular discs, the inner and outer discs being divided into sectors, an electrical contact element in each sector, means for connecting the contact elements of one disc with a plurality of keys, means for connecting the contact elements of the other disc with typewriter operating solenoids, the intermediate disc being divided into sectors, each of which carries two contact points, one adapted to cooperate with the contact elements of the inner disc and the other adapted to cooperate with the contact elements of the outer disc, means for connecting the contact points cooperating with the outer disc in a predetermined manner with the contact points cooperating with the inner disc, means for completing a circuit through said discs, keys and solenoids and a source of electrical energy, means for rotating said discs with respect to each other, said circuit completing means including drums carried by the outer and inner discs, contact rings on the drums, and means for connecting the contact elements of the discs with the contact rings of the drums.

1,949,141
INDICATING DEVICE
Arthur G. Blaylock, Cleveland, Ohio
Application December 2, 1931, Serial No. 576,508
Renewed October 18, 1933
15 Claims. (Cl. 40—21)

4. A device of the class described including a tubular body having a locking flange formed at

one end thereof for engagement with an object on which the body is placed in use, and having a separable skirt portion and a portion inter-



mediate the said flange and skirt, said intermediate portion being divided lengthwise of the body into a plurality of detachable indicating units.

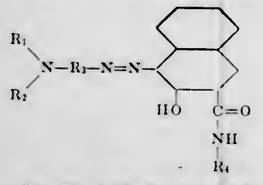
1,949,142

AZO-DYESTUFFS

Gérald Bonhôte and Carl Apotheker, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application July 8, 1933, Serial No. 679,578. In Switzerland July 13, 1932
4 Claims. (Cl. 260—95)

1. The azo-dyestuffs of the general formula



wherein R_1, R_2, R_3 and R_4 stand for aromatic nuclei of the benzene or naphthalene series, which dyestuffs form dark powders dissolving in organic solvents to blue-red to violet, blue and black solutions, and, when produced on the fiber, especially cotton fiber, dye the same fast red to Bordeaux, violet, blue, green and black tints.

1,949,143

PROCESS FOR WEIGHTING NATURAL SILK

René Clavel, Basel, Switzerland

No Drawing. Application July 10, 1931, Serial No. 550,050. In Germany January 29, 1931
12 Claims. (Cl. 8—13)

1. In a method for loading natural silk the steps of steeping the silk in a solution of a strong inorganic acid, treating the silk with a metal salt solution, treating the silk in a fixing bath, and washing the silk.

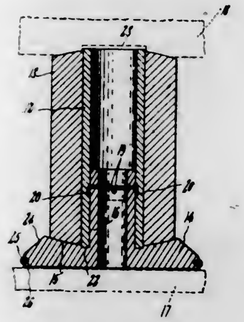
1,949,144

THREAD SUPPLYING ADJUNCT

Robert N. Corthell, Auburn, Maine

Application November 5, 1932
Serial No. 641,383
4 Claims. (Cl. 242—121)

1. A thread-supplying adjunct comprising a thread cop including a tubular core and an annular thread body wound thereon; and a cop support including a circular base having a rigid annular concave face to which the entire inner end of the thread body is closely conformed by longitudinal compression of said body, a tubular spindle-engaging bushing fixed to and projecting from the center of the base, and inserted in the core, and securing means positively fixing the bushing to the core and maintaining the longitudinal compression of the body, and the conformation of its entire inner end to said con-



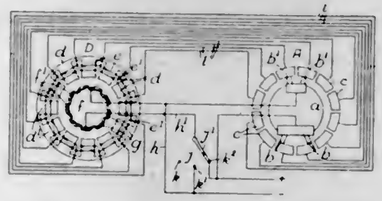
cave face, and thereby preventing the interposition of loose thread coils between the thread body and the base during the entire operation of unwinding the thread body.

1,949,145

SYNCHRONOUS DRIVING DEVICE

Ettore De Luca, London, England, assignor to John Hogg Robertson, London, England

Application December 24, 1932, Serial No. 648,776
In Great Britain November 9, 1932
6 Claims. (Cl. 172—239)



1. A synchronous driving device, comprising an electric motor having a wound rotor and a wound stator, said rotor being coupled to a driven apparatus, a distributor coupled to an apparatus with which said driven apparatus is to be synchronized, said distributor including a plurality of contacts and pairs of brushes revolving in relation to said contacts, said pairs of brushes being spaced circumferentially at unequal angles, means for feeding current through said pairs of brushes and distributor contacts to the stator windings of said motor, and means for first short-circuiting and then feeding current to the rotor windings of said motor.

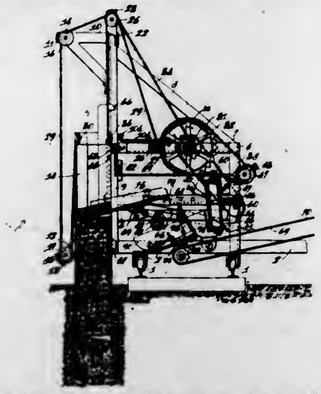
1,949,146

PEAT MACHINE

Albert Doering, Waterloo, Wis.

Application July 21, 1932. Serial No. 623,870
18 Claims. (Cl. 44—30)

13. In a peat machine, means for cutting a column of peat and lifting it from the peat bed, means to slice the column transversely into slices, means to press the slices into blocks, said slicing means being arranged to deliver its slices to said means-to-press, and means to eject the



pressed blocks from the press, and deliver same from the machine.

1,949,147

DISPERSED PIGMENT FROM ORGANIC CARBONACEOUS EARTH AND PROCESS FOR PRODUCING THE SAME

Leonard P. Dove, Hinsdale, Ill.

No Drawing. Application August 4, 1931
Serial No. 555,143
26 Claims. (Cl. 8—6)

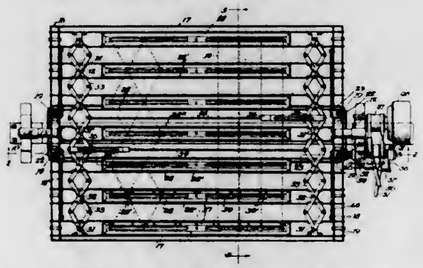
6. A process of producing dyes which comprises chemically dispersing a humic dye material normally insoluble in the common organic solvents, in a common organic solvent with the aid of a common commercial concentrated mineral acid.

1,949,148

MATTRESS TUFTING MACHINE

Joseph W. Droll, Chicago, and Alex H. Olson, Evanston, Ill., assignors to Droll Patents Corporation of Delaware, Chicago, Ill., a corporation of Delaware

Application June 2, 1932. Serial No. 615,057
13 Claims. (Cl. 45—138)



7. In a mattress tufting machine of the character described, the combination of a support, a frame pivoted in the support to swing about a substantially horizontal axis, a second frame adjustably mounted on the pivoted frame, and a series of compressor members adjustably mounted on each of the frames.

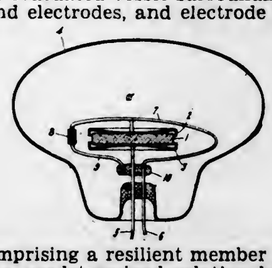
1,949,149

VACUUM MOUNTED OSCILLATOR

Alvarado L. R. Ellis, Swampscott, Mass., assignor to General Electric Company, a corporation of New York

Application July 14, 1925. Serial No. 43,629
5 Claims. (Cl. 171—327)

1. The combination of two electrodes, a piezo-electric oscillator interposed between said electrodes, an evacuated vessel surrounding said oscillator and electrodes, and electrode supporting



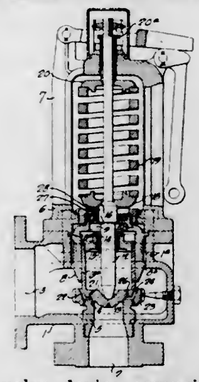
means comprising a resilient member adapted to maintain a predetermined relation between the positions of said oscillator and electrodes.

1,949,150

SAFETY VALVE

Albert D. Eplett, Bridgeport, Conn., assignor to Consolidated Ashcroft Hancock Company, New York, N. Y., a corporation of Delaware

Application March 19, 1931. Serial No. 523,680
3 Claims. (Cl. 137—53)



1. A safety valve device comprising a casing provided with a valve seat and means defining a back pressure chamber, said means including a cylindrical guide sleeve coaxial with the valve seat, a fixed cover for the upper end of said chamber and a valve having a feather cooperating with the seat and comprising a part sliding in said guide, the valve constituting a movable bottom for said chamber, valve loading means wholly outside of the back pressure chamber, a fixed cover member having an opening therethrough and a concentric recess, a laterally movable annulus in said recess, said annulus defining an outlet orifice, a valve stem extending through the orifice in the annulus from the valve to the valve loading means, a blow-down ring coaxial with the seat, the inner surface of said blow-down ring comprising rectilinear elements, said surface cooperating with the feather and valve seat to provide prompt opening of the valve and high lift, and means arranged to admit pressure fluid to the back pressure chamber so long as the valve is open, the valve stem comprising a portion normally obstructing said orifice in said annulus but adapted as the valve stem moves to open said orifice progressively whereby to regulate the escape of pressure fluid from the back pressure chamber and thus insure sharp closure of the valve at predetermined blow-down pressure.

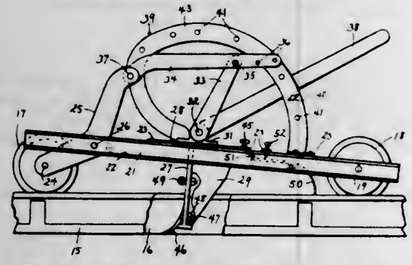
3. A valve of the class described having a casing enclosing a valve seat, said casing comprising an upper part and a lower part, the latter having an outlet passage whose axis is at an angle to the axis of the valve seat, the lower part of the casing

also having a heavy integral rigid annulus of substantially uniform transverse thickness and of substantial length, said annulus being coaxial with the valve seat, a hollow cylindrical valve guide provided with spaced external ribs engaging the annulus adjacent to the upper and lower ends respectively of the latter and accurately positioned thereby, and a valve feather cooperable with the seat and having a body portion adapted to slide within said guide.

1,949,151
ROADWAY SUBGRADER

Cesare Fanfarillo, Glassboro, N. J.

Application August 12, 1932, Serial No. 628,462
3 Claims. (Cl. 37—108)

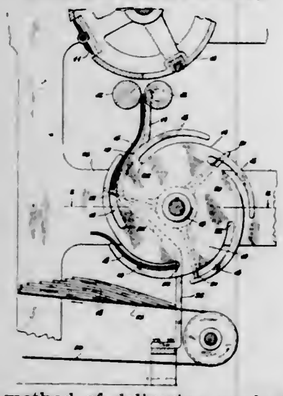


1. In a roadway sub-grader, a pair of rear wheels, a pair of front wheels, stirrups in which said front wheels are journalled, a frame mounted on the axles of the rear wheels and pivotally connected with the stirrups intermediate the ends of the latter, mechanism including an operating handle connected with the stirrups for simultaneously actuating said stirrups to change the elevation of one end of the frame, an adjustable stop in the path of travel of the operating lever to limit the downward movement of said operating lever to various positions, other means co-operating with the operating lever to hold the same in other adjusted positions, and a blade depending from the frame between the front and rear wheels.

1,949,152
DELIVERY MECHANISM

Harland Fankboner, Chicago, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application March 10, 1931. Serial No. 521,485
18 Claims. (Cl. 271—80)

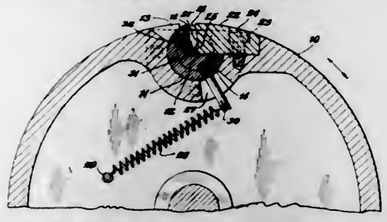


1. The method of delivering products from a folder to a rotary fan which includes positively checking the speed of each product intermediate the folder and fan.

1,949,153
FOLDING MECHANISM

Harland Fankboner, Chicago, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application March 14, 1931. Serial No. 522,737
20 Claims. (Cl. 101—409)

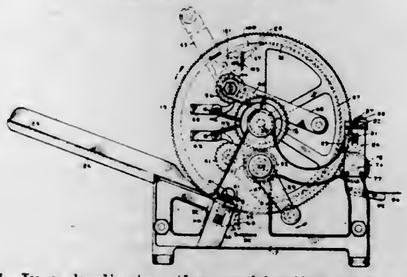


16. In a folding cylinder, a jaw construction including in combination an integral sectoral member rotatably seated in a cylindrical recess extending longitudinally of the cylinder and near the periphery of the cylinder, said member being journalled in the recess at a plurality of points throughout its length, a retaining strip adjacent to one side of said recess and provided with a cylindrically cancave edge contacting with said member to retain said member within the recess, said sectoral member having a cross section greater than a semi-circle and a longitudinally extending deep slot near one radial side of the member and a plurality of tapered screws threaded in said slot and spaced therealong, a fixed jaw secured to the cylinder at the other side of the recess and having a face extending substantially radially of the cylinder and recess and projecting within the cylindrical recess, resilient means for closing said member against said fixed jaw and means for moving said jaws apart to receive a sheet or sheets therebetween, said tapered screws being adapted to variably position that portion of the member which contacts with the fixed jaw face to permit tight gripping of a group of sheets varying in thickness along the length of the jaws.

1,949,154
DUPLICATOR

Frederick Francis Fecher, Rockville Center, N. Y.

Application September 2, 1932. Serial No. 631,477
4 Claims. (Cl. 101—132)

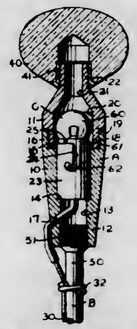


1. In a duplicator, the combination with a stationary frame and a rotary frame adapted to support a duplicating surface; of means adapted to remove paper from said duplicating surface, said means comprising a pair of rollers between which the paper may pass, a member pivotally mounted in said rotary frame and adapted when in one position to hold an edge of a sheet of paper away from said duplicating surface and thereby direct the same toward said rollers when the rotation of said rotary frame brings said edge into proximity to said rollers, and when in another position to allow a sheet of paper to be placed and to remain in close contact with said duplicating surface, and means adapted to hold said member in either operative or inoperative position as may be desired.

1,949,155
ILLUMINATED HEAD FOR GEAR SHIFT LEVERS

Henry C. Fenzlein, Mitchell, S. Dak.

Application March 30, 1933. Serial No. 663,627
3 Claims. (Cl. 240—7.1)

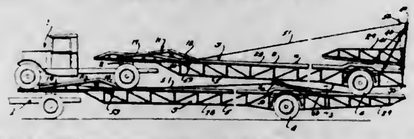


1. In an illuminated head for a gear shift lever, an elongate metallic housing carried at the free end of said lever, said housing having an open end and an electric light bulb socket, said socket having its open end facing the open end of said housing, the open end of said housing having an inverted funnel-shaped bore and the outer surface of the walls of said housing about said bore being beveled and substantially conforming to the shape of the surface of said bore, and a member of light-pervious material carried at and over the open end of said housing, the outer surface of said member sloping inwardly towards said beveled surface, providing a decidedly narrowed neck between said members and said housing, the open end of said socket being spaced from the open end of said housing, so that a conventional electric light bulb carried by said socket will be wholly within said housing.

1,949,156
SEMITRAILER

Lynn M. Francis and Earl W. Jeffers, Detroit, and Walter A. Fader, Birmingham, Mich., assignors, by mesne assignments, to Whitehead and Kales Company, Detroit, Mich., a corporation of Michigan

Application April 21, 1931. Serial No. 531,740
15 Claims. (Cl. 280—33.1)



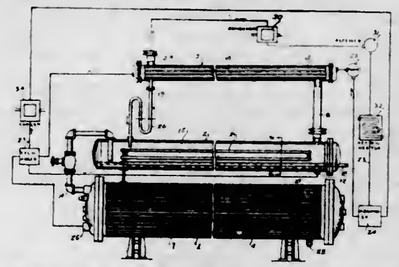
1. A trailer comprising a front and a rear section, movable relative to each other from an extended to a folded position, each section provided with a pair of spaced longitudinal extending tracks, the pair of tracks on one section aligned with the pair of tracks on the other section forming a practically continuous trackway when the rear section is in the extended position, and means for moving one of the sections relative to the other so that the overall length of the two sections in the folded position is not materially greater than the length of one of the sections.

10. A trailer comprising a front and a rear section, the rear section being movable vertically relative to the front section from an extended to a folded position, and means for moving one of the sections relative to the other so that the overall length of the two sections in the folded position is not materially greater than the length of one of the sections.

1,949,157
ABSORPTION REFRIGERATING APPARATUS

Raymond Chester Fuller, Louisville, Ky., assignor to Henry Vogt Machine Co. Inc., Louisville, Ky., a corporation of Kentucky

Application October 25, 1932. Serial No. 639,502
7 Claims. (Cl. 62—119)

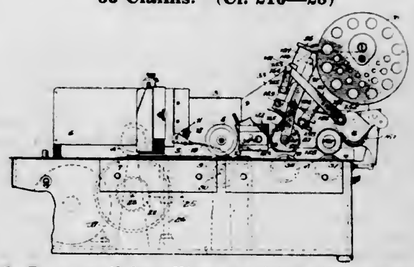


1. Absorption refrigeration system including a generator having the construction of a tubular boiler, means for pumping strong refrigerant solution through the tubes, means for admitting steam to the boiler space surrounding said tubes for heating the refrigerant solution, and an analyzer with which said tubes communicate into which the heated strong solution passes, means for maintaining said heated strong solution at a determined level, at an intermediate height in said analyzer, the latter providing a chamber above said liquid level for receiving the gaseous refrigerant boiled out from said strong solution within said analyzer.

1,949,158
MAILING MACHINE

Azel Gay, Rochester, N. Y., assignor to Multipost Co., Rochester, N. Y., a corporation of New York

Application December 19, 1930
Serial No. 503,382
33 Claims. (Cl. 216—28)

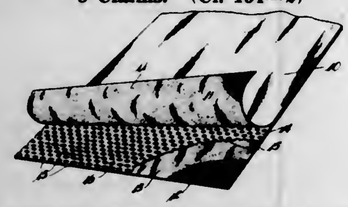


1. In a mail handling machine, the combination with envelope feeding means and a stamp affixing element and a printing element associated therewith, of a cycle member having a direct driving connection with both of said elements to operate them in succession.

1,949,159
COMPOUND VENTILATED FABRIC AND METHOD OF MAKING THE SAME

Alfred A. Glidden, Watertown, and Virgil H. Bodle, Newton, Mass., assignors to Hood Rubber Company, Inc., Watertown, Mass., a corporation of Delaware

Application November 3, 1932. Serial No. 640,979
8 Claims. (Cl. 154—2)



1. A ventilated fabric comprising a reticulated elastic sheet of rubber comprising crossed bands of rubber, and adhesively united thereto a plurality of distendable facing plies of porous textile material.

3. The method of making a ventilated fabric which comprises applying about a doubly curved form a porous distendable ply of textile material, applying thereover a foraminous layer of elastic rubber, appliying a second ply of porous distendable textile material, and vulcanizing the article while on the form.

1,949,160
CURTAIN ROLLER CONSTRUCTION

William S. Hamm, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois

Application October 3, 1932. Serial No. 635,951
5 Claims. (Cl. 156—36)



1. In a spring wound curtain roller, a mandrel mounted in one end of the roller for engagement with an end bracket, said mandrel consisting of a length of wire which is bent back on itself to form a straight stem portion of substantially circular cross section.

1,949,161
PACKAGE

Charles F. Haug, Brooklyn, N. Y.

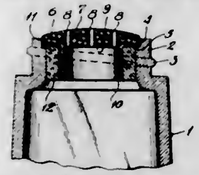
Application June 16, 1932. Serial No. 617,548
6 Claims. (Cl. 206—46)

1. A two-piece package comprising a stiffening member having an opening therein foldable into a hollow column with its opposite end portions overlapping to form a merchandise receiving pocket with said opening and auxiliary pocket means formed by its open ends, and a wrapper wrapped around the merchandise and stiffening member with its ends tucked into said auxiliary pocket means thereby not only to enclose the stiffening member and merchandise in a single unitary package but also serve as the sole means for anchoring the stiffening member in its folded position, the merchandise in its displayed position, and the wrapper in its enclosing position.

1,949,162
CONTAINER

Edward E. Kallenbach, New York, N. Y.

Application January 16, 1933. Serial No. 651,963
9 Claims. (Cl. 15—133)

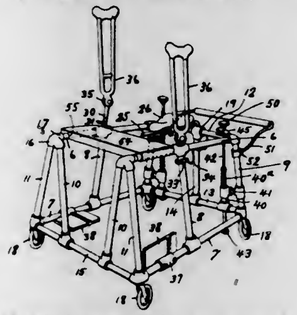


1. A three-piece deodorant applicator comprising a container having a neck integral with said container, the neck having an annular recess at the inner outer edge thereof, a head having a perforated button and an inwardly extending cylindrical collar, the button extending beyond said cylindrical collar to form a laterally extending annular flange, and a cork annulus snugly engaging the cylindrical collar of said head, the flange of said button resting in the recess of said neck and the cork annulus being frictionally forced into the neck of the container to form a liquid tight joint between said neck and said collar.

1,949,163
INVALID VEHICLE

Joseph H. Kasten and Henry McIntosh, Hicksville, N. Y.

Application April 12, 1932. Serial No. 604,813
5 Claims. (Cl. 155—22)



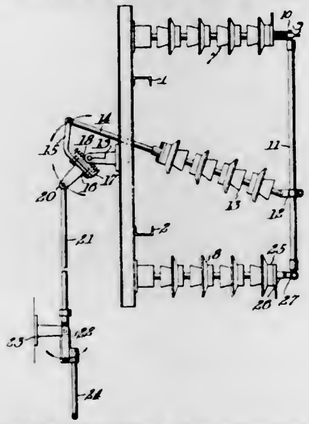
1. In a wheeled support for an invalid, a frame mounted on casters, crutch means mounted on intermediate portions of either side of the frame, seat means supported from and extending forwardly of an upper rear portion of the frame and located to the rear of said crutch means, ground engaging brake means carried by a lower rear portion of the frame, brake operating means on said upper rear portion of the frame at each side and to the rear of the seat means so as to be conveniently operable by the invalid occupying the seat, and foot rest means mounted on opposite sides of the frame, the foot rest means being hinged to swing inwardly into operative position.

1,949,164
HIGH TENSION SWITCH

Carl G. Koppitz, Greensburg, Pa., assignor to Railway and Industrial Engineering Company, Greensburg, Pa., a corporation of Pennsylvania

Original application November 12, 1928, Serial No. 318,962, now Patent No. 1,935,597, dated November 14, 1933. Divided and this application April 15, 1930. Serial No. 444,580
9 Claims. (Cl. 200—48)

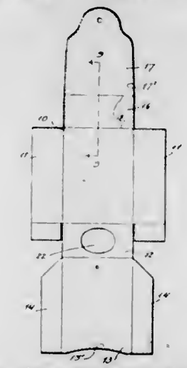
1. A multiple pole switch of the type including a plurality of switches, each switch including a movable contact, and means pivotally mounting the same for arcuate movement, the weight of the mounting means tending to move the contact into open position during a predetermined portion of the arcuate movement thereof, and operating means for all of said switches, said operating means including a bar mounted for rocking movement about an axis parallel to the axis of movement of said contacts, characterized by the fact that said bar is eccentrically mounted to counterbalance a portion of the weight of said mounting means.



1,949,165
CIGARETTE CASE

Julius P. Krieger, Louisville, Ky.

Application June 14, 1932. Serial No. 617,217
2 Claims. (Cl. 206—41)

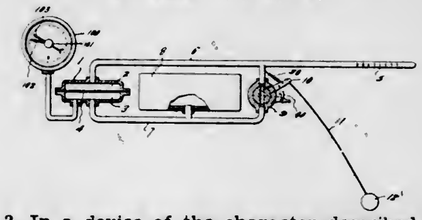


1. A blank for cigarette cases formed of a pair of layers of flexible leather-like material, said layers constituting inner and outer layers respectively and each including a rectangular back portion, rear side portions of rectangular form extending from the side edges of the back portion and of equal length thereto, bottom tabs extending from the lower edges of the rear side portion, a bottom portion of rectangular form extending from the bottom edge of the back portion and of equal width thereto, a front portion extending from the edge of the bottom portion opposite the back portion and of equal width and height to the back portion, front side portions extending from the side edges of the front portion, all of said portions and tabs having between them a middle layer of stiff material such as fibre board, each of the flexible blanks having a top portion of rectangular form extending from the top edge of the back portion and of equal width thereto, and a front flap extending from the edge of the top portion opposite the back portion and of equal width thereto, the top portions and front flaps of said blanks being in contact throughout and being stitched together at the side edges of the top and front portions and at the end of the top portion.

1,949,166
MEANS FOR INDICATING THE HEIGHT OF AIRCRAFT, PARTICULARLY FOR USE WHEN THE AIRCRAFT IS LANDING

David Frederick Lucking, Felixstowe, England, assignor to Temple N. Joyce, Dundalk, Md.

Application August 16, 1933, Serial No. 685,471
In Great Britain January 20, 1932
6 Claims. (Cl. 73—4)

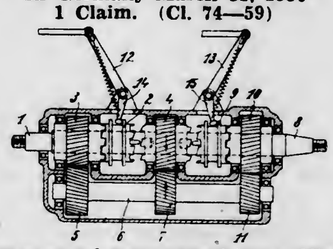


3. In a device of the character described, an altitude indicating mechanism, a device for controlling the operation of said mechanism, said device including a valve, means for actuating said valve including a weight adapted to be suspended from an aircraft, said valve being actuated by a pull caused by the dragging of the weight over the surface of the land or water.

1,949,167
CHANGE SPEED GEARING

Karl Maybach, Friedrichshafen, Germany, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Bodensee, Germany

Application March 12, 1931, Serial No. 521,925
In Germany March 31, 1930
1 Claim. (Cl. 74—59)



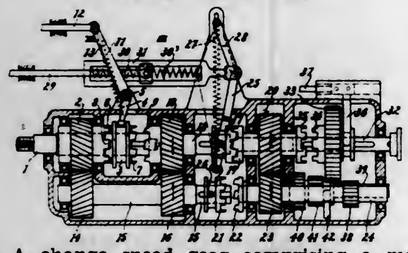
A change speed gear comprising a drive shaft and a driven shaft disposed in axial alignment with their ends in spaced relation having means for effecting four driving speeds therebetween and permitting change from one speed to another without disconnecting the drive shaft from its driving source, said means including an intermediate shaft portion interposed between the drive and driven shafts and having a support independent of said shafts, a main shaft train comprising freely rotatable gears carried one by each of the shafts together with a coaxial intermediate gear fixed to the intermediate shaft portion, the intermediate shaft portion having an axial recess at each end bored to receive and support the respective shaft ends, double acting claw clutch sleeves splined one to each shaft and shiftable therealong in opposite directions alternately to

cause driving connection between its shaft and the gear thereon or the intermediate gear together with tensioning means urging each of the clutch sleeves alternately towards one or the other of its driving positions to prevent more than momentary interruption in the operation of the gearing, the claw clutches both having teeth with inclined front faces adapted on shifting from one speed to another to momentarily retard driving connection between each of the clutch sleeves and their coacting gears until the relative rotative direction of the parts is reversed and permitting the several clutch sleeves singly or together under the influence of the tensioning means to be shifted independently of each other from one to the other of their driving positions without disconnecting the drive shaft from its driving source, and a stub shaft having fixed thereto a series of gears each of which is in constant mesh with one of the gears in the main shaft train.

1,949,168
CHANGE SPEED GEAR

Karl Maybach, Friedrichshafen, Germany, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Germany

Application September 22, 1931, Serial No. 564,369
In Germany October 4, 1930
4 Claims. (Cl. 74—57)
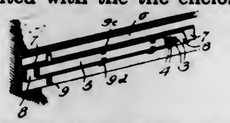


4. A change speed gear comprising a main shaft train composed of a plurality of axially aligned shaft sections carrying gears, a countershaft lying opposite and parallel to the main shaft train carrying gears engageable each with a gear of the main shaft train, and clutch means permitting the selective use of the various sets of gears; the main shaft train including a driven shaft portion on which the gear is keyed to slide axially therealong, one of the clutches serving to connect the driven shaft to the adjacent shaft portion of the main shaft train, and means operative simultaneously with said clutch for moving the sliding gear on the driven shaft out of mesh with its coacting gear in the countershaft train; and a reverse mechanism comprising a stub shaft lying opposite the countershaft train having a pair of gears fixed thereto positioned normally to be out of mesh with gears of the main and countershaft trains, said stub shaft being slidable axially so that when the slidable gear on the driven shaft and its coacting countershaft gear are out of mesh and offset from each other the stub shaft gears may simultaneously be shifted axially into mesh each with one of said gears to bring about a reverse drive between the countershaft train and the driven shaft portion of the main shaft train.

1,949,169
ELECTRICAL CONDUCTOR

Charles L. McCrea, Washington, D. C.

Application March 19, 1931. Serial No. 523,835
3 Claims. (Cl. 247—3)

1. Electrical conductors having an enclosing casing a tape having an adhesive surface on each side thereof and extending longitudinally of said conductors, one side of said tape being secured to a supporting surface, the other side of said tape being united with the the enclosing casing

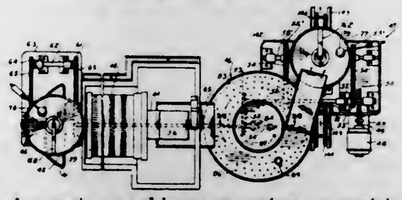


of said conductors, and pliable metallic strip members carried by said tape at spaced intervals along the length thereof and bendable around said enclosing casing for reinforcing the support of said conductors with respect to said tape.

1,949,170
OYSTER PACKING APPARATUS

Edward T. McNaney, Baltimore, Md.

Application February 21, 1930. Serial No. 430,335
15 Claims. (Cl. 226—69)

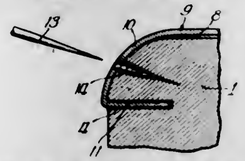


1. An oyster packing apparatus comprising a washer, drainer and container filler, means for conveying oysters from said washer to said filler and for controlling the amount of oysters fed into the said container filler.

1,949,171
METHOD OF SECURING MEMBERS TOGETHER

Louis Melind, Chicago, Ill.

Original application May 16, 1930, Serial No. 452,844. Divided and this application April 25, 1931. Serial No. 532,786
7 Claims. (Cl. 18—59)



1. The method of securing a celluloid cover member to a supporting member, consisting in disposing the two members in adjoining positions, piercing said cover member by a pointed instrument and forcing a portion of the cover member into said supporting member, said instrument being heated to cause the portion of the cover forced into the supporting member to fuse and adhere to the inner walls of the depressions so formed in the supporting member.

1,949,172
MEANS FOR TRANSPORTING VEHICLES AND THE LIKE

Jesse B. Miller, Toledo, Ohio, assignor to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan

Application August 17, 1931. Serial No. 557,657
14 Claims. (Cl. 280—33.1)

3. In a transportation means of the class described, a main runway for receiving vehicles to

be transported, an auxiliary runway movable from a position in line with to a position substantially parallel to said main runway, and means



connecting said auxiliary runway to said main runway and having portions in line with and forming extensions of said runways.

1,949,173
SHIFTABLE CARBON ROLL

Louis J. Miller, Cincinnati, Ohio, assignor to United Autographic Register Co., Chicago, Ill., a corporation of Illinois

Application October 21, 1929. Serial No. 401,186
6 Claims. (Cl. 197—126)

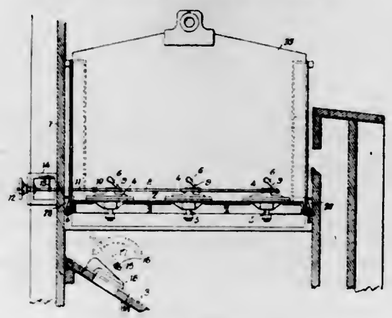


1. In combination: a frame comprising spaced arms and an intervening flat platen; a pair of brackets mounted on each arm and projecting outwardly therefrom, each bracket provided with bearings; a pair of carbon roll shafts mounted in said bearings adapted to carry a supply roll and a take-up roll, said pair of shafts being longitudinally shiftable in the bearings; and tensioning means adapted to tension carbon strips extending between said rolls and to permit shifting thereof while under tension.

1,949,174
COAL WASHING MACHINE

James A. Montgomery, Birmingham, Ala., assignor to Fred Alexander Montgomery, Charles Joseph Montgomery, Eloise S. Montgomery, and Ruth M. Philips, all of Birmingham, Ala.

Application March 17, 1931. Serial No. 523,367
7 Claims. (Cl. 103—178)

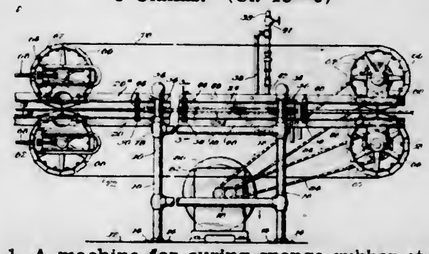


1. In a coal washing machine, in combination, a tank having an inclined partition therein, valves in said partition, a reciprocatory plunger in said tank having valves therein, and adjustable friction plates between the lines of contact of said plunger and said tank, means to regulate said valves from the outside of said tank and means to regulate the adjustment of said friction plates whereby to control the flow of water pumped by said piston.

1,949,175
MEANS OF MANUFACTURING STRIP SPONGE RUBBER

Frank M. Netzel, Chicago, Ill., assignor to Frost Rubber Works, Chicago, Ill., a partnership consisting of F. S. Frost and F. M. Netzel

Application February 12, 1931. Serial No. 515,267
3 Claims. (Cl. 18—6)

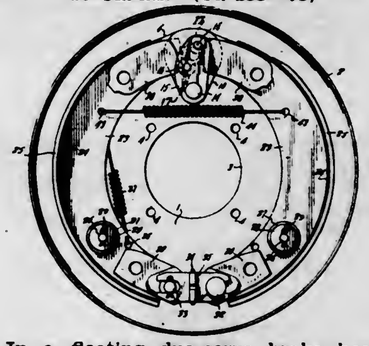


1. A machine for curing sponge rubber strips comprising a supporting framework, a rectangular box-like housing positioned thereon, a similar housing adjustably supported above said housing, a metal plate on each housing, said plates positioned adjacent each other, a heating coil in each housing supported contacting the plates except for a short distance at each end, a pair of spaced non-insulated conveyor belts positioned between said plates adapted to convey uncured rubber therebetween, and guide means arranged to be carried by said conveyors to define the width and thickness of the rubber strips.

1,949,176
BRAKE

Raymond J. Norton, Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Application February 17, 1931. Serial No. 516,408
10 Claims. (Cl. 188—78)



1. In a floating duo-servo brake having a plurality of brake shoes and a fixed support, an anchor adapted to take circumferential thrust directly for both directions of drum rotation comprising an applying shaft journalled in the support and means associated with the shaft for positioning the brake shoes transversely.

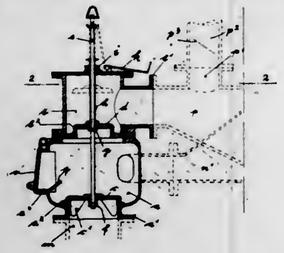
1,949,177
DEVICE FOR CONTROLLING AGENTS OF COMBUSTION

Carl Otto, Essen-Ruhr, Germany

Application December 11, 1926, Serial No. 154,209
In Germany December 16, 1925
11 Claims. (Cl. 277—6)

1. A device for controlling the flow of gases to and from regenerators comprising in combina-

tion, two communicating chambers, one having an air inlet port, a valve for the port, a conduit communicating with and adapted to connect each of the said two chambers with a separate regenerator, a waste heat conduit connected



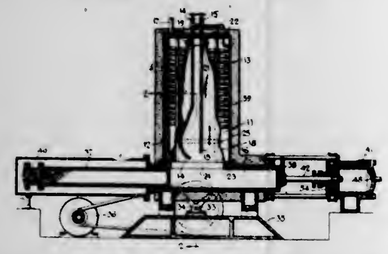
with one of said chambers, and a pair of valves, one adapted to control communication between the said two chambers and the other adapted to control communication with the waste heat conduit.

1,949,178
GAS VALVE LOCK
Dean A. Pack, Gloucester, Mass.
Application November 5, 1931. Serial No. 573,214
1 Claim. (Cl. 126—42)



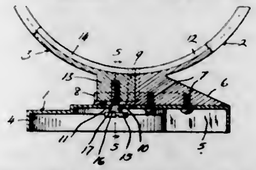
A device for preventing the opening of gas cocks consisting of an open-ended tube having flared ends and constructed with a longitudinal slot extending from end to end thereof and opening through its ends and provided between its ends with a circumferential series of longitudinal slits, and inset tongues between the slits.

1,949,179
PRODUCTION OF SOLID CARBON DIOXIDE
Raymond C. Pierce, Bronxville, N. Y., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application September 15, 1930
Serial No. 482,105
6 Claims. (Cl. 62—121)



1. In an apparatus for the production of solid carbon dioxide, an expansion chamber having an expansion nozzle therein and an outlet therefrom; a flexible pervious member interposed between said nozzle and outlet for intercepting solidified carbon dioxide; and means for continuously shaking said member.

1,949,180
PICTURE FRAME
Kurt Rettich, Toledo, Ohio, assignor, by mesne assignments, to The Reynolds Spring Company, Jackson, Mich., a corporation of Delaware
Application May 31, 1932. Serial No. 614,582
5 Claims. (Cl. 40—148)



1. A picture frame, comprising a base, a frame member secured to said base and provided with a channel-shaped portion, and a second frame member movably secured to said base and having a portion slidably engageable with said channel-shaped portion.

1,949,181
SEWAGE DISPOSAL
Champlain L. Riley, North Plainfield, N. J., assignor to Industrial Associates, Inc., New York, N. Y., a corporation of New York
No Drawing. Application August 26, 1931
Serial No. 559,499
7 Claims. (Cl. 210—2)

1. The method of sewage disposal which comprises concentrating the sewage to form sludge and centrifugally atomizing the sludge in a current of hot gases, thereby converting the sludge into substantially dry comminuted solids of uniform moisture content.

1,949,182
PILOT JET ASSEMBLY
Earl W. Roberts, Detroit, Mich., assignor to Roberts Brass Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application October 3, 1932. Serial No. 636,079
12 Claims. (Cl. 158—115)

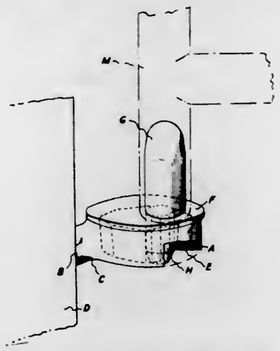


1. A pilot burner having a tubular portion provided at its upper end with a substantially frustoconical tip, said tubular portion being also provided at one side with a fluid inlet and having an enlargement at one side of the inlet, said enlargement having a passage establishing direct communication between the atmosphere and the tubular portion, and a valve adjustable in the enlargement so as to interrupt and control the passage aforesaid.

1,949,183
GATE HINGE WITH LEVELING AND TILTING ADJUSTMENT
Thomas James Roberts, Rylstone, New South Wales, Australia
Application March 17, 1933, Serial No. 661,399
In Australia April 8, 1932
6 Claims. (Cl. 16—131)

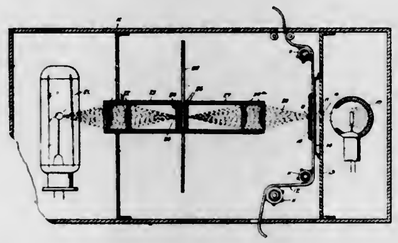
1. A gate suspension hinge comprising a lug adapted to be fixed on a gatepost, an eye in said

lug, a metal block adapted to fit in said eye and to be capable of rotational adjustment therein, a hole through said block, and a pintle with an



offset stub on the bottom end of it, said stub capable of rotational adjustment in the hole in the block thereby to vary the axial position of the pintle in relation to the gatepost.

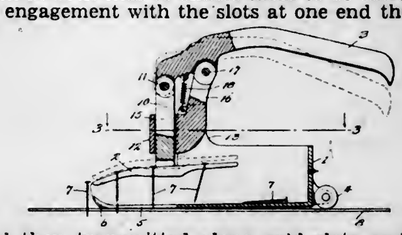
1,949,184
SOUND REPRODUCING DEVICE
James Michael Robinson, Evansville, Ind.
Application April 6, 1932. Serial No. 603,622
2 Claims. (Cl. 274—5)



1. A sound reproducing device comprising a source of light, a light sensitive cell, and a sound record film interposed between the source of light and the light sensitive cell, said sound record film having a series of lateral sound tracks thereon at right angles to the direction of movement thereof, means for causing a beam of light from said source of light to travel along said sound track, said means including a stationary opaque member having a slot therein at right angles to the direction of travel of the film, and a rotatable scanning disk having a series of circumferentially spaced slots therein placed at an angle to a radius of the disk passing through the slot, whereby each angularly placed slot will pass across said slot to provide a track or beam of light passing therethrough.

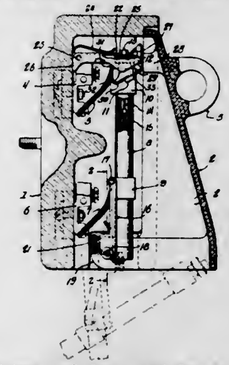
1,949,185
EXTRACTING DEVICE
David E. Roganson, Short Beach, Conn.
Refiled for abandoned application Serial No. 447,825, April 28, 1930. This application November 23, 1933. Serial No. 699,479
2 Claims. (Cl. 254—21)

2. A pulling device comprising a movable body, a member mounted in said body to be lowered and raised, said member having longitudinal slots open at both ends to enable tacks to be extracted by engagement with the slots at one end thereof



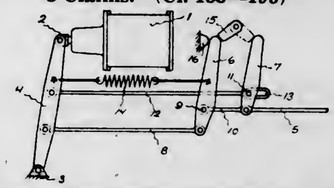
and then transmitted along said slots and delivered at the opposite ends.

1,949,186
FUSE
William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application January 9, 1933. Serial No. 650,814
15 Claims. (Cl. 200—127)



1. A housed type of drop-out fuse comprising a casing having stationary contacts, a door for said casing, said door and casing providing a downwardly flaring opening in the lower portion of the structure, a fuse assembly having spaced contacts normally engaging said stationary contacts, mechanism releasably holding said fuse in position, and a fuse link forming a portion of said fuse assembly and normally holding said mechanism against releasing movement.

1,949,187
VARIABLE LEVERAGE BRAKE RIGGING
Folke Nils Henrik Setterwall, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden, a corporation of Sweden
Application May 26, 1931, Serial No. 540,170
In Germany June 23, 1930
3 Claims. (Cl. 188—195)



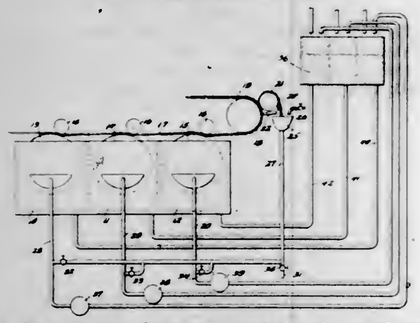
1. In a vehicle brake mechanism, especially for railway cars, a source of braking power, friction members associated with wheels of the vehicles, a link and lever system brake power transmission rigging adapted for connecting said source of power with the friction members act-

ing on the wheels for the purpose of braking, at least one additional power transmission lever mounted in the brake rigging and constructed for a fixed and non-variable leverage different from that of the other transmission levers in the rigging, and switch means adapted for selectively connecting and disconnecting said power transmission levers to produce different brake applying leverages.

1,949,188
MANUFACTURE OF PAPER

Daniel A. Smith, Chevy Chase, Md., assignor to District of Columbia Paper Manufacturing Company, Washington, D. C., a corporation of Virginia

Application May 8, 1930. Serial No. 450,793
10 Claims. (Cl. 92—43)

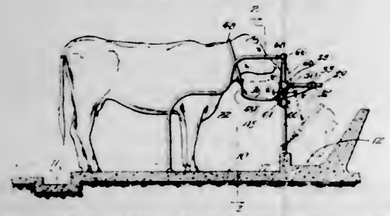


1. In a process for paper making, the method of securing sheets of selected width, comprising the formation of an over-sized sheet, the cutting of a strip therefrom at a point removed from the cylinder mould, and returning the pulp of the cut strip to the stock supply vat.

1,949,189
TIE STALL

Kenneth L. Smith, Des Plaines, Ill.

Application May 11, 1931. Serial No. 536,530
16 Claims. (Cl. 119—119)



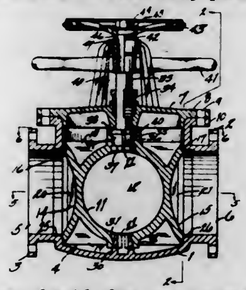
1. A tie stall comprising standards, fittings adjustably mounted on said standards means for adjusting said fittings on the standards, pipes mounted on said fittings, extensible arms pivoted on said pipes, and a horizontally disposed bar carried by said arms, said bar having a member to which an animal may be detachably secured.

1,949,190
STRAIGHT FLOW STOP VALVE

Michael Smolensky, Cleveland, Ohio

Application May 1, 1930. Serial No. 448,838
9 Claims. (Cl. 251—102)

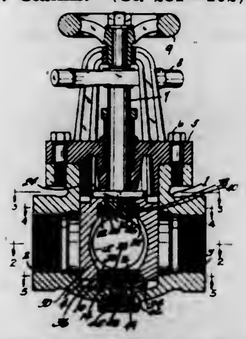
1. A stop valve comprising a body having a cylindrical central bore and coaxial passages of circular cross-section communicating said bore and a pipe line positioned on diametrically opposite sides of said central bore, a cylindrical plug within said central bore having a straight passage therethrough of the same size and cross sectional shape throughout substantially its entire length as the said coaxial passages and adapted to be placed in axial alignment therewith in one position of said plug, said plug being split into two sections by a plane defined by its axis and the axis of the passage therethrough, and each of said sections having solid portions alignable one with each of said body passages in another position of said plug, means extending outside of said valve body for moving said plug sections to said positions, and other means to spread said plug sections relatively apart and into stressed engagement with the walls of the central bore of the body in either position of said plug.



1,949,191
STRAIGHT FLOW STOP VALVE

Michael Smolensky, Garfield Heights, Ohio

Application September 11, 1930
Serial No. 481,174
7 Claims. (Cl. 251—102)



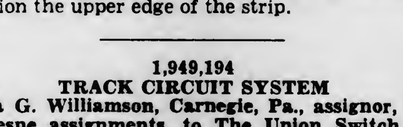
1. A stop valve comprising a hollow body having passages therein communicating with a pipe line, a plug within said body having a transverse bore, said plug being divided into a plurality of sections, a stem for moving said plug to communicate said passages and bore and to close said passages selectively, there being separate operating means at opposite ends of the plug operable to force the sections toward and away from each other, and means on the stem by which both said operating means are rendered operable upon axial movement of the stem in opposite directions to move the plug sections relatively into expanded and contracted positions in the body.

1,949,192
OPEN BOTTOM FRICTION FOR AUTOMATIC BOBBINS

Isaac Snow, Lawrence, Mass., assignor to U. S. Bobbin & Shuttle Company 1929, Providence, R. I., a corporation of Rhode Island

Application March 11, 1931. Serial No. 521,739
5 Claims. (Cl. 139—217)

1. The combination with a shuttle for automatic looms having a bobbin chamber, a threading chamber and a friction release slot in downward extension thereof, and an open shuttle eye on one side which connects with the threading chamber; of a friction device positioned at the front of the bobbin chamber and the back of the threading chamber, said device including a frame having at the top an open mouth which connects at the front with a dead end thread slot which extends diagonally down proximate the top of the friction release slot, and which mouth connects with an open bottom and at the back with

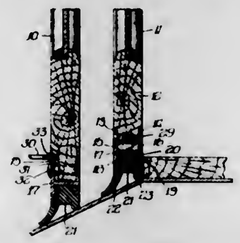


a through thread slot which extends diagonally down to the bottom of the frame and the top of the friction release slot, a block guide groove, a slidable friction block positioned in the block guide groove on one side of said thread slots, and a fixed friction block positioned on the other side of said slots, the slidable friction block being movable and spring pressed against the other block, there being a vertical thread release passage between the front of the frame below the front dead end thread slot and the friction blocks.

1,949,193
SASH CONSTRUCTION

Christian M. Verhagen, Chicago, Ill., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois

Application July 23, 1932. Serial No. 624,313
6 Claims. (Cl. 20—52)



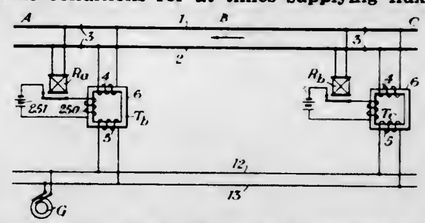
1. The combination, with the bottom rail of a wooden sash, and a sealing strip for the same, of a metal retainer of generally H-shaped cross section which is substantially the same width as the rail and sealing strip and embraces in its upper portion the lower edge of the rail and in its lower portion the upper edge of the strip.

1,949,194
TRACK CIRCUIT SYSTEM

Arba G. Williamson, Carnegie, Pa., assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Original application March 3, 1927, Serial No. 172,325, now Patent No. 1,791,780, dated February 10, 1931. Divided and this application January 14, 1931. Serial No. 508,618
10 Claims. (Cl. 246—34)

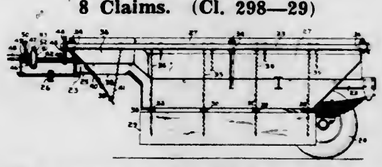
1. In combination with a stretch of traffic track, means including a transformer having a magnetizable core for supplying periodic current to the rails of said stretch, and means controlled by traffic conditions for at times supplying flux to said core to control the current supplied by said transformer to said rails.



1,949,195
DISPENSING TRAILER

Raymond C. Yant, Omaha, Nebr.

Application September 15, 1933
Serial No. 689,582
8 Claims. (Cl. 298—29)



1. In a dispensing trailer for a vehicle, a chassis having an elevated front extension for a mounting on a vehicle, an open box having downwardly converging sides, an apertured bottom-portion at its front end and a discharge passageway between its sides rearwardly of said apertured bottom-portion, a shaft in bearings disposed longitudinally of the box, hingeably mounted doors disposed longitudinally of the box for the discharge passageway thereof, a hingeably mounted door disposed transversely of the box for the apertured bottom-portion thereof, and flexible strands mounted on the shaft and attached to said doors, said box being disposed on the chassis with its apertured bottom-portion disposed in the vertical plane of the elevated extension thereof, said shaft being rotatable for moving said doors.

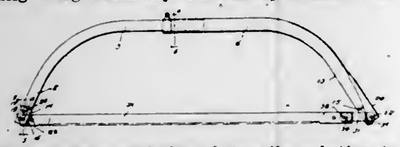
1,949,196
SAW

Henry Youlten, Magnus Lindqvist, and Martin Berglund, Virginia City, Mont., assignors, by direct and mesne assignments, of one-eighth to Clarence H. Petersen, three-eighths to John Lindquist, one-eighth to Bertoglio and McTaggart Storage Company, all of Butte, Mont., and three-eighths to said Magnus Lindqvist

Application February 18, 1933. Serial No. 657,424
2 Claims. (Cl. 145—34)

1. In a saw of the character described, a U-frame composed of two tubular sections slidably fitted one within the other and having means for releasably securing the same against relative movement, the outer end of one frame section being flattened laterally and having a longitudinal slot at the inner side of said flattened portion to permit reception of the apertured end of a saw blade between the sides of said flattened portion, said flattened portion having alined openings and being provided with horizontal key-hole slots below said openings, and a C-shaped blade securing element having a hooked upper end loosely engaged in said openings for pivotal movement relative to the frame section longitudinally and laterally of the latter, the lower end of said blade securing element extending laterally through the key-hole slots and having a terminal head of a diameter larger than the inner narrower portions of said key-hole slots and slightly smaller than

the diameter of the larger outer portions of said slots, whereby said securing element may be swung longitudinally outwardly relative to the



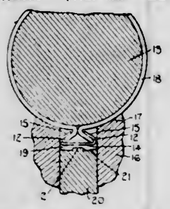
frame sections and then laterally relative to the latter to effect disconnection of the adjacent end of the saw blade from the frame.

1,949,197

PROCESS OF FORMING SHEET METAL PIPE FITTINGS

Edward S. Cornell, Jr., Larchmont, N. Y.

Application December 31, 1931
Serial No. 584,021
1 Claim. (Cl. 29—157)



The method of forming a T from a sheet of copper, which consists in taking a sheet of copper of desired length and of a width greater than the circumference of the T to be formed, forming the lateral opening and the cylindrical wall of the lateral opening, folding the sheet of copper distributed on each side of the axis of the lateral opening about a cylindrical mandrel to proximate more and more cylindrical contour to form the body of the T, the mandrel having an outer diameter closely approximating the inner diameter of the resulting cylindrical body of the T, bending the juxtaposed edges of the sheet of copper to position the excess of copper at the respective edge portions to lie exteriorly of the body of the T and at an angle to one another, sliding over the thus formed angularly positioned edges a member having a substantially flat body portion and further having its edges inturned to enclose the angularly positioned edges of the sheet of copper forming the body and applying pressure by means of a punch having a projection on its effective face jointly to the juxtaposed edges of the sheet of copper and the connecting member to dually fold the edges of the copper sheet and the inturned edges of the connecting member into close association with one another while inturning the connecting member substantially centrally and longitudinally of its body portion to thereby substantially indent the connecting member at the stated central longitudinal portion of its body relative to the remainder of its body and to position such central longitudinal indented portion of the connecting member in immediate contact under pressure with the adjacent faces of the juxtaposed edge portions.

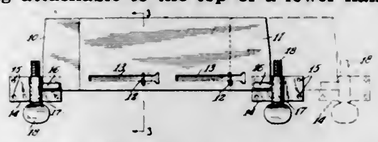
1,949,198

INSECT GUARD

Tobias Finkelstein. New York, N. Y.

Application January 14, 1933. Serial No. 651,743
5 Claims. (Cl. 156—14)

1. A metal shield constructed of two separate units with two mushroom-shaped guides in one unit and two channels in the second unit, said units joined together by said guides and channels to slide to and fro in a straight line, said shield being attachable to the top of a lower half of a



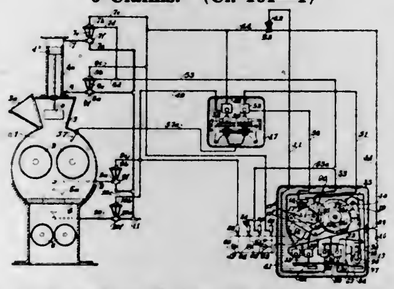
double sash window to cover the open space formed between the two half-windows when a wire screen is set thereunder.

1,949,199

APPARATUS FOR CONTROLLING INDUSTRIAL PROCESSES

Edward B. Foote, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

Application January 2, 1931. Serial No. 506,294
6 Claims. (Cl. 161—1)



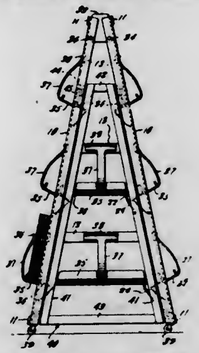
1. In apparatus of the character described, the combination with a cam having a composite surface representing a definite time schedule and a follower positioned to contact with the cam surface, of means for driving the cam at a relatively slow speed from an initial definite relative position of the cam and the follower through part of one revolution, means for driving the cam at a relatively high speed through the remaining part of one revolution, means for de-energizing the high speed driving means when the cam substantially reaches its initial position and means operative to hold the cam and the follower against relative movement when said initial position is reached.

1,949,200

DISPLAY RACK FOR PERIODICALS

Frank Freson, Yakima, Wash.

Application July 16, 1932. Serial No. 622,932
2 Claims. (Cl. 211—51)



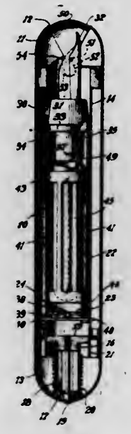
2. A display rack for periodicals comprising a frame, an abutment extending across said frame, an oscillatory channel disposed below the abutment and pivoted to the frame, a tongue extending upwardly from said channel intermediate ends thereof with its free end terminating in front of the abutment to hold periodicals against the abutment, and spring means yieldably resisting rocking movement of the channel in one direction and causing the free end of the tongue to be urged towards the abutment.

1,949,201

FOUNTAIN PEN

William Friedman, New York, N. Y.

Application September 8, 1932. Serial No. 632,178
12 Claims. (Cl. 120—49)



1. A fountain pen comprising a pen body, a casing adapted to receive said pen body, means for retracting said body into the casing, a cover to overlie the pen body when retracted and close the casing, and means for operating said cover by the retracting means while the pen body is longitudinally at rest.

1,949,202

PROCESS OF PREPARING 1.4.5.8-NAPHTHALENE - TETRA - CARBOXYLIC ACID AND SUBSTITUTION PRODUCTS THEREOF

Heinrich Greune and Wilhelm Eckert, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 15, 1930, Serial No. 482,154. In Germany September 26, 1929
6 Claims. (Cl. 260—108)

1. The process which comprises causing a sulfuric acid of high concentration to act at about 160° C. to about 270° C. upon a 1.4.5.8-naphthalene-tetra-carboxylic acid di-imide.

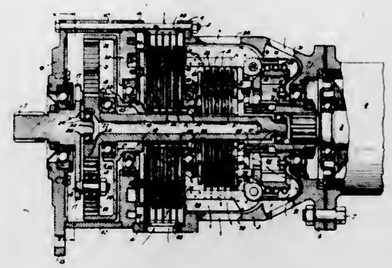
1,949,203

DRIVING MECHANISM

Clinton H. Havill, South Orange, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey

Application October 28, 1932. Serial No. 640,085
10 Claims. (Cl. 74—34)

1. In a driving mechanism, a rotatable driving cage, a driven shaft, a plurality of driving wheels mounted on said cage, a driven wheel constantly engaged by each of said driving wheels and rotatable therewith, means including a friction device constantly opposing rotation of



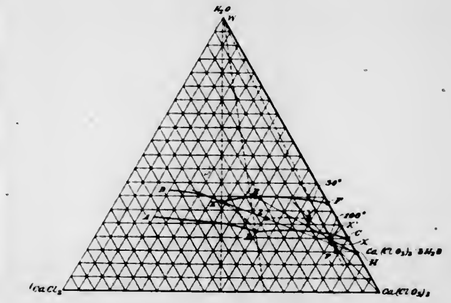
said driven wheel, means including an additional friction device for drivably connecting said driving wheels with said driven shaft, and means responsive to the speed of said driven shaft for varying the action of both said friction devices.

1,949,204

PURIFYING CALCIUM CHLORATE

Sheldon B. Heath, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application May 26, 1932. Serial No. 613,677
8 Claims. (Cl. 23—85)



8. The method of purifying calcium chlorate from a small amount of calcium chloride which comprises preparing a solution of such impure chlorate saturated with respect to $Ca(ClO_3)_2.2H_2O$ at a temperature below 60° C., cooling to crystallize said chlorate as the dihydrate thereof, and separating the crystals from the mother liquor.

1,949,205

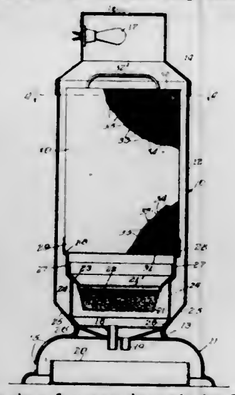
MEANS FOR PROTECTING SILVER, ETC., FROM TARNISHING

George E. Herring and Frank E. Dean, Chicago, Ill., assignors to Associated Silver Company, Chicago, Ill., a corporation of Illinois

Application December 9, 1931. Serial No. 579,908
2 Claims. (Cl. 183—4)

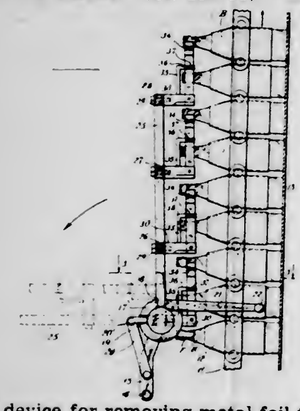
2. In an apparatus of the kind described, an outer casing, a removable unit for placement in and removal from the casing, the unit having a foraminous container for holding a moisture absorbing chemical, and absorbent material for

carrying a chemical adapted to remove metal tarnishing gases from the atmosphere, and means



within the casing for causing air to flow through same.

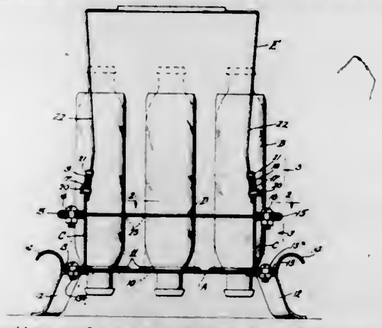
1,949,206
BOTTLE CLEANING DEVICE
Albert F. Hoffman, Newark, N. J., assignor to Hoffman Beverage Company, Newark, N. J., a corporation of New Jersey
Application July 15, 1930. Serial No. 468,038
4 Claims. (Cl. 15—93)



2. In a device for removing metal foil from the necks of bottles, the combination of a conveyor for the bottles, a frame mounted adjacent said conveyor, and a plurality of stationary scraper claws on said frame for engaging the necks of the bottles to remove the foil therefrom.

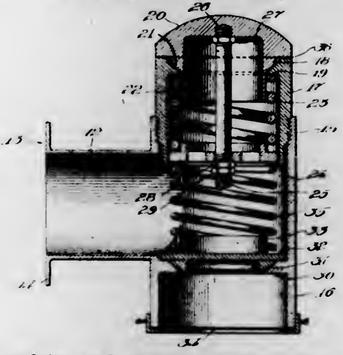
1,949,207
BOTTLE CARRIER
Georgie R. Kinkead and William L. Moir, Chicago, Ill.; said Moir assignor to said Kinkead
Application June 24, 1932. Serial No. 619,032
5 Claims. (Cl. 224—48)

1. In a bottle carrier, the combination of a base plate adapted to support bottles thereon, an upper plate in spaced relation to the base plate and provided with apertures adapted to have the bodies of bottles inserted therethrough, and a pair of spaced standards, each formed of plate metal and having its lower end struck outwardly to furnish a section connected with the base plate, and having its end projecting from the edge of the base plate and configured to furnish a finger grip, each of the standards being bent upon itself at a point above the base plate to furnish a U-shaped portion for



the reception and support of the edge of the upper plate.

1,949,208
SAFETY AND VACUUM VALVE STRUCTURE FOR TANKS
George W. King, Coffeyville, Kans., assignor of two-twelfths to Lee T. Englund, two-twelfths to John E. Mahan, both of Coffeyville, Kans., and seven-twelfths to Roy T. Osborn, New York, N. Y.
Application January 11, 1932. Serial No. 585,862
9 Claims. (Cl. 277—21)

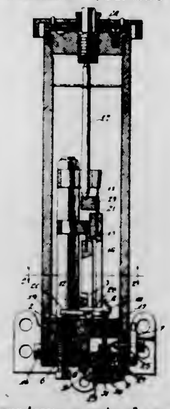


1. A safety and vacuum valve structure for tanks comprising a housing having a pair of substantially aligned branches, a safety valve and a vacuum valve positioned in said branches, respectively, a spring for maintaining said safety valve in closed position up to a predetermined pressure, a follower member engaging one end of said spring, a second spring interposed between said vacuum valve and member and adapted to have backing engagement with said member, and means of communication for connecting said pair of branches with the tank.

1,949,209
BROMINATION PRODUCTS OF THE DIBENZANTHRONE SERIES
Max Albert Kunz, Mannheim, and Karl Koeberle, Ludwigshafen - on - the - Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 20, 1932, Serial No. 629,752. In Germany March 13, 1928
6 Claims. (Cl. 260—61)

2. Brominated dibenzanthrone containing from 3 to 4 atoms of bromine per molecule, dissolving in concentrated sulphuric acid giving violet solutions and dyeing the vegetable fibre from blue vats blue shades.

1,949,210
TWO-LEVEL TEMPERATURE THERMOSTAT
John M. Larson, Chicago, Ill., assignor to National Regulator Company, Chicago, Ill., a corporation of Illinois
Application May 25, 1931. Serial No. 539,769
19 Claims. (Cl. 236—87)



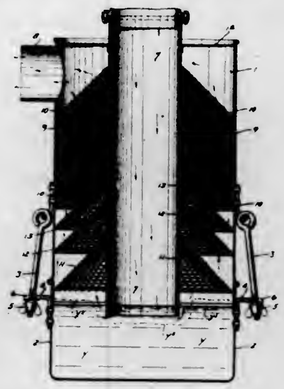
1. In a temperature control system, a two-level temperature thermostat construction comprising a heat-expansible tube, a temperature-controlled valve in said tube controlled by the expansion and contraction of said tube, a plug for the end of said tube, yielding resistance means for modifying the action of the valve to change the temperature level, and a member movably mounted on said plug, said yielding resistance means being mounted on said movable member and movable therewith into and out of temperature-modifying position.

1,949,211
PROCESS FOR THE PURIFICATION OF SECONDARY ALCOHOLS
Robert B. Lebo, Elizabeth, N. J., assignor to Standard Alcohol Company
Application May 17, 1929. Serial No. 363,750
9 Claims. (Cl. 260—156)

1. An improved process for purifying secondary alcohols by removing the tertiary alcohol, comprising subjecting a mixture of a secondary alcohol and a minor proportion of a tertiary alcohol to heat treatment at a temperature not exceeding 105° F. with aqueous sulfuric acid of not above 40 percent strength by weight and a catalyst which includes a compound of one of the elements of the group consisting of vanadium, aluminum and copper, for a prolonged period and removing the hydrocarbon formed by the decomposition of the tertiary alcohol.

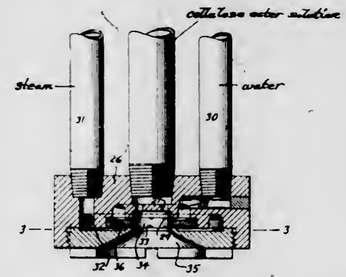
1,949,212
AIR CLEANER
Wilfred W. Lowther, Minneapolis, Minn., assignor to Donaldson Company, Inc., St. Paul, Minn., a corporation of Minnesota
Application July 20, 1931. Serial No. 551,883
1 Claim. (Cl. 183—10)

An air cleaner comprising a casing having an oil well, an air inlet and an air outlet, said inlet being arranged to direct the dust-laden air against the surface of the oil in said well, in combination with at least two inclined screens in said air passage immediately above the surface of the oil in said well, said screens having unobstructed air spaces between and on both sides of both thereof, said parts being so arranged that under forced passage of air through said cleaner, oil will be carried from said well onto said screens in decreasing quantities in an upward direction, and the oil caught by the screen will form films over



the openings thereof and will run down the screens and back into said well, said screens being conical and inclined in a common direction, said screens being progressively closer and closer together in an upward direction.

1,949,213
PRECIPITATION OF CELLULOSE ESTERS
Donald B. Mason, Catonsville, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia
Application May 10, 1929. Serial No. 362,105
21 Claims. (Cl. 260—102)

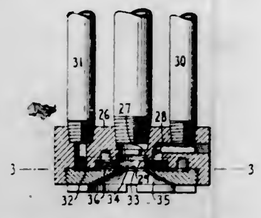


1. The method of obtaining cellulose esters of organic acids in easily treatable condition, which comprises producing a solution or like state of the cellulose ester dispersed in liquid sulfur dioxid, discharging a stream of the same under pressure, and commingling with such stream a stream of precipitating liquid, under such conditions as to vaporize and release the sulfur dioxid as the cellulose ester is thus precipitated.

1,949,214
APPARATUS FOR PRECIPITATION OF CELLULOSE ESTERS
Donald B. Mason, Catonsville, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia
Application July 2, 1931. Serial No. 548,371
7 Claims. (Cl. 18—8)

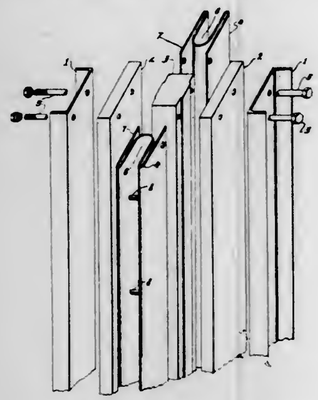
1. Apparatus for precipitating cellulose esters from solutions and like flowable mixtures, com-

prising a valved discharge pipe connected with a pressure vessel for containing the solution, a nozzle on the end of said pipe, and means for delivering jets of precipitating liquid to com-



mingle with the cellulose ester solution issuing from said nozzle, and means for supplying sufficient heat at the region of precipitation to volatilize abruptly a constituent of the mixture with disruptive effect upon the precipitating ester.

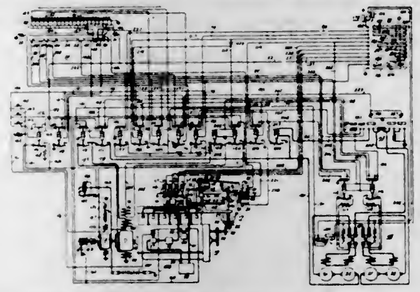
1,949,215
BUILDING CONSTRUCTION
Robert L. McCaig, Toledo, Ohio, assignor to Michael Hughes, Toledo, Ohio
Application May 14, 1931. Serial No. 537,360
11 Claims. (Cl. 72—115)



8. In a building construction, a frame member comprising metal parts furnishing strength, insulating material between the metal parts, connectors passing through the insulating material at spaced intervals and connecting the metal parts to form a rigid member, said insulating material extending at the edges beyond said metal parts, wall panels, and means for clamping the wall panels against the extended portions of said insulating material.

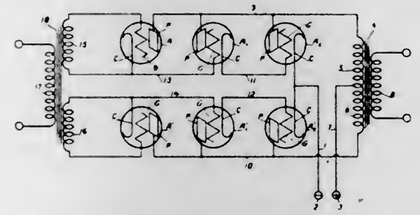
1,949,216
POWER SYSTEM
Jacob W. McNairy, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application April 8, 1933. Serial No. 665,144
30 Claims. (Cl. 290—17)

1. A power system including a prime mover, a generator driven thereby having an excitation system, means responsive to speed variations of said prime mover for varying the torque of said prime mover, means responsive to speed variations of said prime mover for varying the excitation of said generator, and means for always causing variations in the excitation of said generator
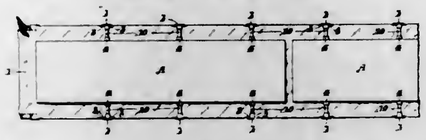


to occur before substantial changes in the torque of said prime mover are made.

1,949,217
HARMONIC NEUTRALIZING AMPLIFIER
Theodorus H. Nakken, Brooklyn, N. Y., assignor to Nakken Patents Corporation, a corporation of Delaware
Application June 12, 1929. Serial No. 370,296
2 Claims. (Cl. 179—171)



1. A full wave amplifier assemblage for amplifying periodic signal variations comprising two symmetrical series of three or more direct connected triode amplifiers; a separate input coil for each said series and operatively connected to the grid and the cathode of the first triode amplifier of said series; an electromagnetic differential coil responsive to both said series; and a single source of plate circuit potential connected between the midpoint of said electromagnetic differential coil and the two cathodes of the last triode amplifiers of said two symmetrical series.

1,949,218
MOVABLE STOP MECHANISM
Samuel H. Owens, Altoona, Pa.
Application April 28, 1932. Serial No. 608,004
7 Claims. (Cl. 105—366)



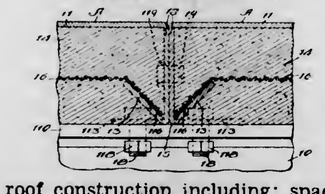
1. Movable stop mechanism comprising a rack, a stop guided for movement along said rack, and a pawl freely mounted for pivotal movement on a surface of said stop and having capacity for limited bodily movement away from said surface, said pawl being adapted to slide along the teeth of said rack when the stop is moved in one direction and to lock with the teeth of said rack when the stop is moved in the reverse direction.

1,949,219
VALVE CLOSURE FOR COLLAPSIBLE TUBES
Edward J. Richards, Philadelphia, Pa.
Application April 29, 1932. Serial No. 608,294
9 Claims. (Cl. 221—60)



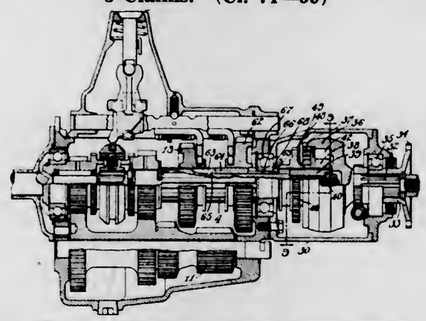
1. The combination of a receptacle having a head through one side wall of which a discharge aperture extends and provided with a recess, a hollow imperforate closure having a beveled cutting edge slidable upon said head and operative when moved into closed position to sever extruded from unextruded substance within said receptacle, said closure having a longitudinal groove normally registering with said recess and retaining means extending within and between and yieldingly engaging the inner surface of said closure to secure the closure upon said head.

1,949,220
BUILDING CONSTRUCTION
Harvey W. Schick, Chicago, Ill.
Application June 13, 1931. Serial No. 544,099
9 Claims. (Cl. 108—1)



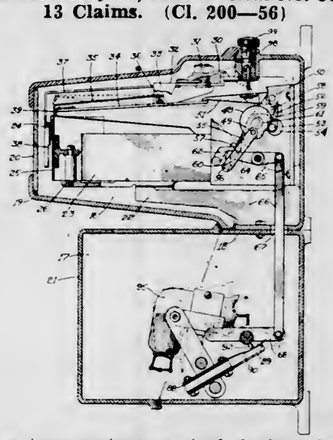
1. A roof construction including: spaced supporting beams; slabs extending between and covering the space between the beams, said slabs comprising inverted sheet metal pans containing a pre-cast filler; and means disposed within the plan area of the pans for attaching the slabs to the beams.

1,949,221
FREE WHEELING TRANSMISSION
John M. Simpson and Samuel O. White, Muncie, Ind., assignors, by mesne assignments, to Free Wheeling Patents Corporation, South Bend, Ind., a corporation of Delaware
Application October 17, 1931. Serial No. 569,364
3 Claims. (Cl. 74—59)



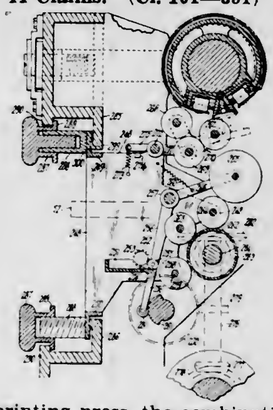
1. The combination with a transmission including a splined shaft and a gear axially shiftable thereon and a one and a two-way clutch including an axially shiftable two-way clutch member, of an axially movable shiftable member arranged in a splined recess in said shaft for engagement by said axially movable gear to shift said two-way clutch member into engaging position through the shifting movement of said gear.

1,949,222
SWITCH CONTROL APPARATUS
Albert F. Spitzglass and Otto T. Handwerk, Chicago, Ill., assignors to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application July 15, 1929. Serial No. 378,203
13 Claims. (Cl. 200—56)



1. In a temperature control device, the combination of a temperature sensitive index, an adjustable target, a pivotally mounted depressor oscillatable across the path of the pointer and adapted to be intercepted thereby when the latter is in the path of the depressor, means for adjustably positioning said target and depressor and means automatically operable incident to a resetting operation of the target and depressor for maintaining the depressor clear of the path of the pointer.

1,949,223
PRINTING PRESS
Burnham C. Stickney, Hillside, N. J.
Original application March 27, 1926, Serial No. 97,846. Patent No. 1,763,679, dated June 17, 1930. Divided and this application March 6, 1930. Serial No. 433,558
11 Claims. (Cl. 101—351)



1. In a printing press, the combination with a printing couple including a printing cylinder, of

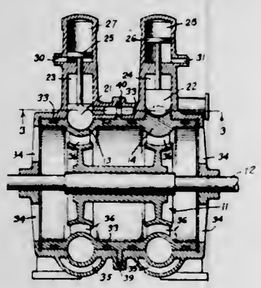
a row of sets of inking rollers for individual forms upon said cylinder, each set including its own ink-fountain and its own form rollers, guideways being provided on said press along said cylinder and each set being adjustable along said guideways, means for securing each set while adjusted, a single ink-distributing roll for all the sets for said printing cylinder, and means for driving said roll.

1,949,224
DRAPERY CARRIER
Walter H. Toelle, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a corporation of Delaware
Application September 8, 1932. Serial No. 632,139
20 Claims. (Cl. 156—20)



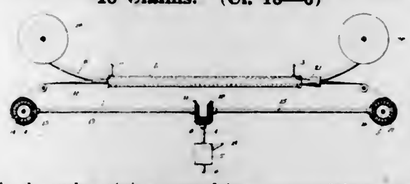
1. A drapery carrier for a rod having longitudinal parallel track surfaces, comprising a pair of members pivotally connected to each other, each of said members having a part interengaging with one of said track surfaces, for the purpose described.

1,949,225
ROTARY INTERNAL COMBUSTION ENGINE
Willem P. van Lammeren, Voorschoten, Netherlands
Application May 12, 1928, Serial No. 277,342. In Great Britain May 12, 1927
2 Claims. (Cl. 123—14)



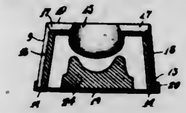
1. A fluid motor comprising a cylindrical block, a drum rotatably mounted in said block, said block and drum having opposed recesses therein forming two annular cylinders therebetween, a passage connecting said cylinders, a valve integral with said drum arranged to open and close said passage, pistons carried by said drum, a pair of reaction members slidably mounted on said block and adapted to slide into a position across the diameters of said cylinders to prevent entire circulation of the motive fluid past said reaction members, means for rotating said drum relative to said block means for moving said reaction members so that the pistons may pass the same without rendering said reaction members inoperative, and means for igniting the motive fluid in one of said cylinders, the other of said cylinders being for the purpose of compressing the motive fluid, said valve admitting the compressed fluid in the last mentioned cylinder to said first mentioned cylinder so that the igniting means may ignite the motive fluid in said first mentioned cylinder.

1,949,226
CONTINUOUS VULCANIZER
Archibald L. Wallace, Brooklyn, N. Y.
Application March 5, 1932. Serial No. 596,961
18 Claims. (Cl. 18—6)



1. A vulcanizing machine comprising means forming a vulcanizing chamber having a smooth tubular bore therethrough, and a lining movable longitudinally through said bore and adapted to contain the work therein, said lining comprising a member positioned to be curved about the work in engagement therewith and held in said position by engagement with the interior surface of said bore, together with means having engagement with said lining selectively operable to move said lining and the work therein in either selected direction longitudinally through said bore.

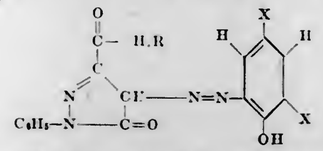
1,949,227
MOLDING FLASK
George A. Wiechert, New York, N. Y.
Application May 23, 1931. Serial No. 539,477
9 Claims. (Cl. 18—33)



1. A molding flask comprising a hollow body member provided with filling holes and sprue holes, and further provided with portions formed to distribute the flow of water to cool the hollow body and its contents, said portions thus formed being positioned and arranged to prevent the contents of the hollow body member from becoming displaced.

1,949,228
AZO DYESTUFF
Hermann Winkeler and Hans Reindel, Ludwigshafen-on-the-Rhine, and Guido Freiherr von Rosenberg, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application April 22, 1933
Serial No. 667,496
7 Claims. (Cl. 260—87)

1. Azo-dyestuffs corresponding to the general formula

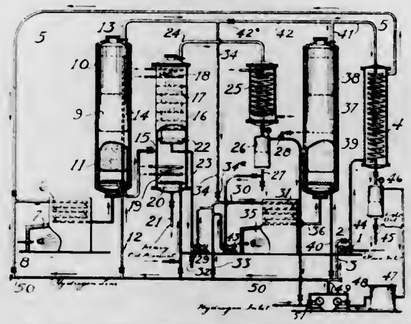


wherein one X stands for the sulphonic acid group, the other X for a substituent selected from the class consisting of chlorine and the alkyl groups and R for hydrogen or an alkyl and hydroxy alkyl group, the said dyestuffs dyeing wool usually orange shades and being capable of yielding complex chromium compounds which possess an excellent fastness to light and a very good equalizing power.

1,949,229
INFLEXIBLE WATERPROOF COMPOSITION AND PROCESS OF MAKING SAME
Frank William Yeager, Cliffside Park, N. J., assignor to The Barrett Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 30, 1930
Serial No. 448,776
27 Claims. (Cl. 18—47.5)

15. The process which comprises mixing 15 to 45 parts bituminous material, 15 to 40 parts clay, 15 to 50 parts sand, and fibre with water, shaping the plastic mass so produced, drying the shaped mass and thereafter heating the material at a temperature between that of the melting point of the bituminous material and 800° F.

1,949,230
PROCESS FOR OBTAINING VALUABLE HIGH BOILING AND LOW BOILING OILS FROM HEAVY HYDROCARBON OILS
Philip L. Young, New York, N. Y., assignor to Standard-I. G. Company
Application July 2, 1930. Serial No. 465,299
8 Claims. (Cl. 196—53)

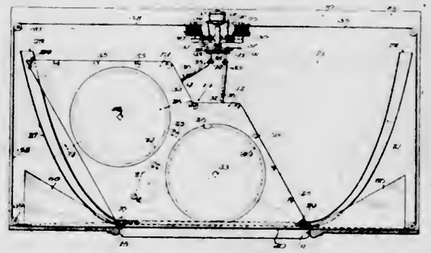


1. An improved process for obtaining valuable products from heavy hydrocarbon oils comprising passing the oil in liquid condition with free hydrogen under pressure in excess of 20 atmospheres through a reaction zone containing a sulfactive catalyst with conditions of feed rate, high partial pressure of hydrogen and temperature suitably interadjusted to materially increase by destructive hydrogenation the lubricating quality of the heavier fractions, with a limited formation of lower boiling fractions, withdrawing liquid oil, separating such lower boiling fractions unsuitable for lubricants therefrom, and passing such lower boiling fractions at a relatively higher temperature with free hydrogen under pressure in excess of 20 atmospheres but with reduced hydrogen partial pressure over a second sulfactive catalyst to produce by destructive hydrogenation a light low boiling product of marked antidetonating properties suitable for motor fuel.

1,949,231
PROCESS FOR OBTAINING HIGH YIELDS OF HIGH GRADE LUBRICANTS FROM PETROLEUM OIL
Philip L. Young, New York, N. Y., assignor to Standard-I. G. Company
No Drawing. Application July 19, 1930
Serial No. 469,258
5 Claims. (Cl. 196—13)

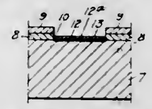
1. An improved process for producing increased yields of valuable lubricating oils from unrefined viscous petroleum fractions, which comprises extracting the oil with a selective solvent thereby separating the oil into liquid portions of high and low lubricating value, and subjecting a fraction of the latter to destructive hydrogenation with hydrogen under superatmospheric pressure in excess of 50 atmospheres and at elevated temperature between 700 and 850° F. for conversion into oil of high lubricating value.

1,949,232
STAGE CONSTRUCTION FOR THEATERS
Graeme E. Young, Deerfield, Ill.
Application June 8, 1932. Serial No. 616,088
20 Claims. (Cl. 20—1.123)



1. In a theatrical stage structure, a platform of a substantial length with respect to its width mounted to oscillate about a fulcrum on an upright pivot, intermediate the ends of the platform, and means for oscillating the platform about said fulcrum and in a substantially horizontal plane.

1,949,233
PROCESS FOR THE PRODUCTION OF MERCURIZED PRINTING PLATES
Hermann George Zimmermann, Bentleigh, Victoria, Australia
Application December 10, 1931, Serial No. 580,216
In Australia July 27, 1931
2 Claims. (Cl. 41—41.5)

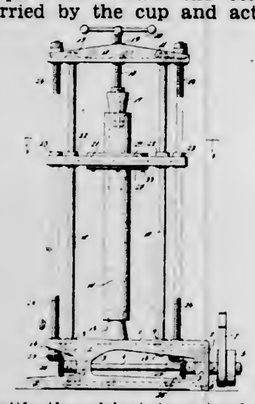


1. Process for the production of printing plates having mercurized ink repelling areas consisting in coating a base of a metal amalgamable with mercury with a metal not amalgamable with mercury, forming the design on the said coating, amalgamating the exposed parts of the base with metallic mercury, treating the amalgamated parts with a solution of nitrate of silver and nitric acid to produce a layer of mercury having a matt surface and applying metallic mercury to the surface thus produced.

1,949,234
APPARATUS FOR FILM-COATING ROLLS AND THE LIKE
Harry J. Baxter, Freeport, N. Y.
Application September 10, 1931
Serial No. 562,080
2 Claims. (Cl. 91—46)

1. In apparatus for film-coating rolls and other objects, a frame, guide bars carried by the frame, a carriage mounted on the guide bars, a screw operatively connected with the carriage for moving it on the guide bars, and means for rotating the screw, a cup having an aperture for the passage of the object to be coated, said cup

being adapted to contain the coating liquid, means carried by the cup and acting in con-



junction with the object to retard the passage of liquid from the base of the cup.

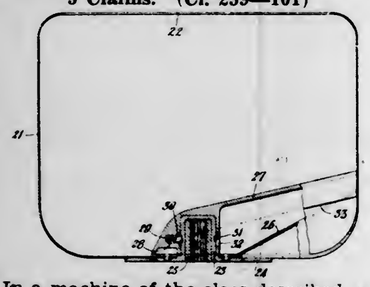
1,949,235

WASHING MACHINE

Thomas W. Behan, Binghamton, N. Y., assignor to Nineteen Hundred Corporation, Binghamton, N. Y., a corporation of New York

Application May 6, 1930. Serial No. 450,105

5 Claims. (Cl. 259—101)



1. In a machine of the class described, a main container, an inner container rotatably mounted within said main container, a vane tapering toward its top secured to said inner container, a larger vane with a similar interior taper detachably mounted over and adapted to conceal said first mentioned vane for movement with said inner container, each of said vanes extending to the periphery of said inner container and means for imparting an oscillatory movement to said inner container.

1,949,236

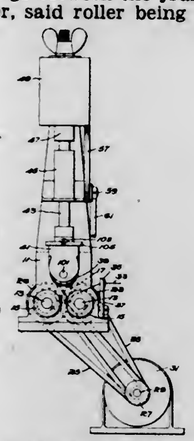
WINDING MACHINE

Fred W. Bommer, Winchester, Mass., assignor, by mesne assignments, to Sibley-Pym Corporation, Lynn, Mass., a corporation of Massachusetts

Application October 7, 1930. Serial No. 486,957

20 Claims. (Cl. 242—3)

1. A winding machine for winding spheroids having a plurality of grooved rollers presenting a seat for a spheroid, means for driving said rollers to impart a winding movement to the spheroid, a bearing member for the opposite face of the spheroid comprising a roller, a supporting head movable toward and from the spheroid, means for yieldably pressing the head toward the spheroid, a journaling member in the head establishing a fixed axis of rotation for the roller, and anti-friction bearings between the journaling member and the roller, said roller being adapted to ro-



tate in a plane inclined to the seating plane of the spheroid.

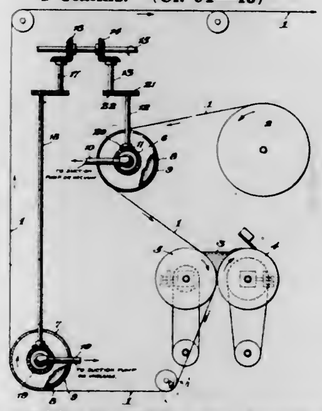
1,949,237

WEB TENSIONING APPARATUS

Donald B. Bradner, Oxford, Ohio, assignor to The Champion Coated Paper Company, Hamilton, Ohio, a corporation of Ohio

Application July 8, 1932. Serial No. 621,502

4 Claims. (Cl. 91—43)



1. The combination with a web treating apparatus of two suction rolls adapted to engage the web, one being located on the entry side and one being located on the exit side of said web treating apparatus, a source of suction connected to the rolls and means for driving the exit side suction roll at a greater peripheral speed than the other suction roll.

1,949,238

APPARATUS FOR OPERATING ON WOUND WEBS

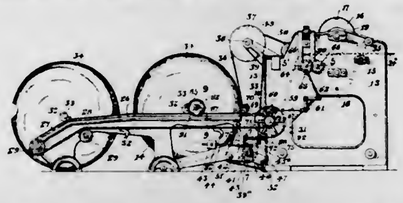
Albert Broadmeyer, Harrisburg, Pa., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa., a corporation of Pennsylvania

Application July 29, 1930. Serial No. 471,519

16 Claims. (Cl. 242—58)

3. In apparatus for varying the diameter of a wound body of material, the combination with means for rotatably supporting a body of wound material, of means that engages the body to rotate it, and means for varying the distance between

the rotatable support and the rotating means to accommodate the changing diameter of the body,



said latter means including a governing device that bears against the body and is moved as its diameter varies.

1,949,239

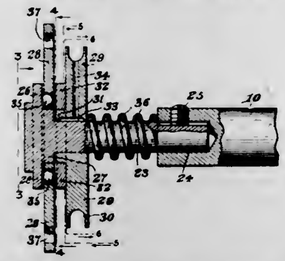
RELATIVE SPEED INDICATOR

Albert Broadmeyer, Harrisburg, Pa., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa., a corporation of Pennsylvania

Application September 26, 1931

Serial No. 565,392

5 Claims. (Cl. 235—103.5)



1. In indicating mechanism, the combination with a rotatable indicator having visible means for observing its movement, of oppositely rotatable actuating devices on opposite sides of the same, means for driving the actuating devices in opposite directions, and roller elements journaled in the indicator and having traction bearings on the actuating devices.

1,949,240

PRESERVATION OF OXIDIZABLE ORGANIC COMPOUNDS

Hugh Mills Bunbury and William Johnson Smith Naunton, Prestwich, and Keith William Palmer, Fartown, Huddersfield, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application May 28, 1932, Serial No. 614,284. In Great Britain June 4, 1931

17 Claims. (Cl. 18—50)

1. A process for the preservation of rubber and rubber-like substances by incorporating therein at any convenient stage in the manufacture a small proportion, up to about 5%, of a mercaptophenol.

1,949,241

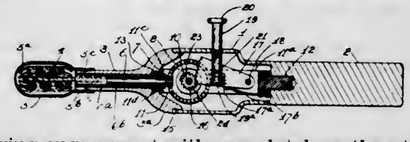
ROTARY TOOTHBRUSH

George E. Carlson, Oscar P. Larson, and Samuel R. Swenson, Chicago, Ill., assignors to Milton A. Boom, doing business as Mechanical Research Company, Chicago, Ill.

Application July 30, 1932. Serial No. 626,376

8 Claims. (Cl. 15—25)

1. A toothbrush comprising a brush element, a shaft to which it is secured, a handle including a chamber, and drive mechanism in the chamber including a pinion on the shaft, a pair of gears meshing with the pinion at opposite sides of its axis, a clutch member associated with each of said gears, and a rotary member journaled between said clutch members, means for driving said rotary member and means for shifting it into



driving engagement with one clutch or the other at will for determining the direction in which the brush is to be driven.

1,949,242

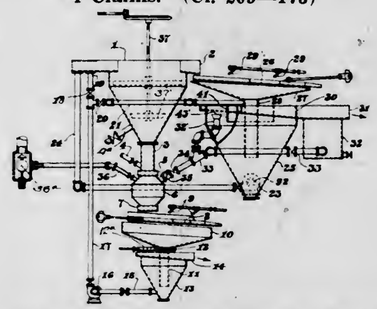
APPARATUS FOR SEPARATING MATERIALS OF DIFFERENT SPECIFIC GRAVITIES

Thomas M. Chance, Philadelphia, Pa.; Florence H. Chance and Provident Trust Company of Philadelphia, executors of said Thomas M. Chance, deceased

Application February 11, 1930, Serial No. 427,532

Renewed May 16, 1933

4 Claims. (Cl. 209—173)



1. In apparatus for separating materials of different specific gravities by means of a fluid mass composed of an agitated mixture of comminuted solids and liquid, in which the heavier of said materials sinking in said fluid mass are collected in a valved refuse chamber containing liquid and adapted to discharge said materials, admixed with liquid therefrom, after said collection, the improved apparatus comprising in combination a refuse chamber of the described type; a valved refuse inlet to said chamber; a valved refuse discharge from said chamber; a liquid supply to said chamber; dewatering means in operative relation to said valved refuse discharge; a receptacle adapted to receive comminuted solids and liquid separated by said dewatering means from said heavier materials after their discharge from said chamber; and means for the return of said separated solids from said receptacle to said fluid mass, said receptacle being of sufficient storage volume to substantially accommodate the difference between the volume of said solids and liquid received from said dewatering means during discharge from said chamber and the volume of said solids and liquid coincidently removed from said receptacle by said returning means.

1,949,243

PRODUCTION OF ALPHA NAPHTHOL

William J. Cotton, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application November 9, 1929

Serial No. 406,152

21 Claims. (Cl. 260—154)

1. A process for the production of 1-naphthol which comprises fusing a mixture containing 1-

naphthalenemonosulfonic acid and a naphthalene disulfonic acid with caustic alkali to form a mixture containing the alkali-metal compounds of 1-naphthol and of a naphthol sulfonic acid but containing substantially no alkali-metal dihydroxy-naphthalene compound, and separating 1-naphthol from said mixture.

1,949,244

DENATURED ALCOHOL AND ESTER

William N. Davis and John T. Rutherford, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 8, 1932 Serial No. 628,003 9 Claims. (Cl. 202—77)

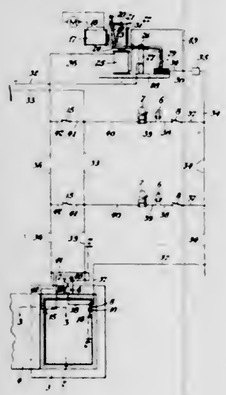
1. A denatured alcohol or ester containing the extracted oils derived by the sulphur dioxide extraction treatment of petroleum oils, said oils containing organic sulphur bodies and a relatively large amount of unsaturated and aromatic constituents.

1,949,245

SIGNAL SYSTEM FOR DUMB-WAITERS AND THE LIKE

Peter J. Dugan, Tuckahoe, N. Y., assignor of one-half to Robert M. Sypher, Closter, N. J.

Application October 9, 1931. Serial No. 567,860 11 Claims. (Cl. 177—336)



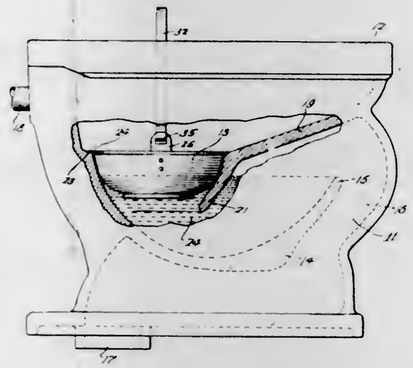
1. The combination with a dumb-waiter installation including a shaftway having a doorway, a car in the shaftway, and mechanism for driving the car, of an electric signal device and a master switch and a doorway switch all in series in an electric circuit connected to a suitable source of electric current supply, a retractable latch device associated with the master switch to hold it open, means for closing said switch when released by the latch device, means for closing and holding the doorway switch closed when the car is at the doorway, means for opening and holding the doorway switch open when the car is not at the doorway, and means associated with the driving mechanism for the car whereby upon actuation of the driving mechanism said latch device is retracted to release the master switch, so that upon the closing of the doorway switch by the arrival of the car at the door the circuit through the signal device will become closed and a signal will be given thereby

1,949,246

WATER CLOSET

John C. Duner, Chicago, Ill., assignor to Duner Company, Chicago, Ill., a corporation of Illinois

Application August 22, 1931. Serial No. 558,744 3 Claims. (Cl. 4—1)



1. A water closet, comprising a closet bowl having a basin at its top, a water seal beneath said basin, and a pan adapted to be removably inserted through said basin and into the inlet opening of said water seal, said pan having a specific gravity causing it to be immersed in said water seal to form a continuation of the bottom of the basin.

1,949,247

ALKYLOLAMINE-DERIVATIVES AND PROCESS OF PREPARING THEM

Otto Eisleb, Hofheim-on-the-Taunus, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application May 28, 1931, Serial No. 540,809. In Germany June 10, 1930 9 Claims. (Cl. 260—127)

1. The compounds of the following general formula

$$X\text{-}CHOH\text{-}CH_2\text{-}N(CH_2\text{-}Ar)(CH_2\text{-}Ar)$$

wherein each of the Ar stands for a benzene or naphthalene radical which may be substituted by chlorine, and X stands for hydrogen or lower alkyl.

1,949,248

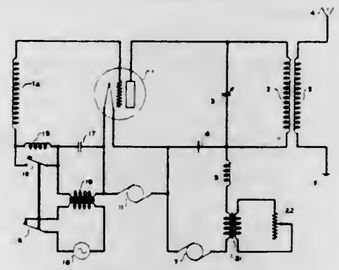
KEYING SYSTEM

John Fish Farrington, Flushing, N. Y., assignor to International Communications Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 10, 1930. Serial No. 460,278 13 Claims. (Cl. 250—17)

1. A signalling system comprising a signal channel, a source of oscillatory energy connected thereto, a signal controlling means connected to said source, and means associated with the aforesaid means for maintaining the energy output of said source at a substantially constant level dur-

ing marking and spacing periods, comprising an auxiliary source of non-radiatable oscillations as-



sociated with said source and an absorbing means for said auxiliary oscillations.

1,949,249

FIBROUS COMPOSITION AND PROCESS OF MANUFACTURE

Harry C. Fisher, Norwood, Ohio, assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio

No Drawing. Application October 23, 1928 Serial No. 314,551 16 Claims. (Cl. 92—21)

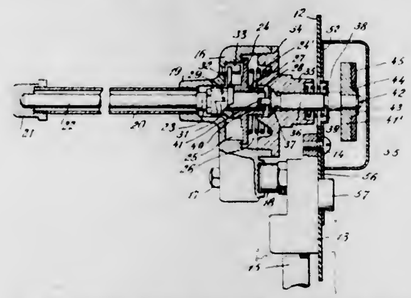
1. The process of forming a watery pulp which consists in forming a mixture of fibers and an adhesive binder substance by extending the said substance so that by its adhesiveness and working it individualizes, distributes and coats the fibers, and incorporating into the mass so produced a substance which will aid in partially washing away the adhesive coating of the fibers, and beating the mixture together with water.

1,949,250

HEAT CONTROL DEVICE

Edward L. Fonseca, Newark, N. J., assignor to The Wilcolator Company, Newark, N. J., a corporation of Delaware

Application April 24, 1931. Serial No. 532,449 14 Claims. (Cl. 236—15)



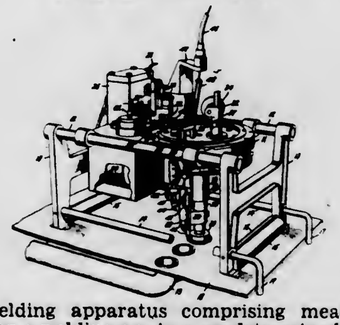
1. The combination with a gas range having an oven and an open burner adjacent the wall of the oven, of a thermostatic control device mounted on said wall above the open burner, means for adjusting the device, a lever secured to the means above the open burner and movable in a plane substantially parallel to said wall and having a portion projecting beyond the front wall of the oven, and a handle on the projecting portion of the lever located outside of the zone of heat developed by the open burner and also outside of the zone of heat radiated by said wall.

1,949,251

ARC WELDING

Ralph A. Gilbert, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application August 18, 1932. Serial No. 629,328 6 Claims. (Cl. 219—8)



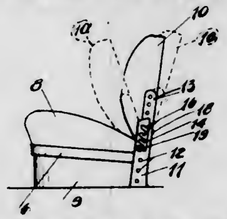
1. Welding apparatus comprising means for directing a welding arc in a predetermined closed path, means for swinging the arc away from said path after the weld has been lapped upon itself a predetermined amount, and means for interrupting the welding arc after it has been swung away from said closed path.

1,949,252

ADJUSTABLE HINGE

Lyle G. Gransden, Edenville, Mich.

Application August 7, 1933. Serial No. 683,924 3 Claims. (Cl. 155—7)



3. An adjustable hinge of the class described, and comprising a U-shaped bracket member adapted to be rigidly secured to a stationary support with its bight portion disposed towards the rear, a plurality of vertically spaced horizontally disposed slots formed in said bracket, a vertically disposed main slot open to one end of said horizontally disposed slots, an extension strap member slidably mounted in said bracket and formed with a tapered lower end section to permit a limited forward swing of the strap member, a pin mounted in the lower end of said strap member with its ends projecting into said main slot, said pin selectively engaging in one of said slots as the extension strap is raised and swung rearwardly, and a stop on the back wall of the bracket for limiting the rearward swing of said extension strap.

1,949,253

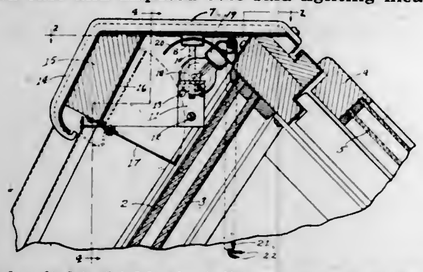
ILLUMINATED DISPLAY CASE

George J. Hopkins, Kendallville, Ind., assignor to McCray Refrigerator Company, Kendallville, Ind., a corporation of Indiana

Application June 2, 1933. Serial No. 674,076 8 Claims. (Cl. 240—6)

1. In a display case having a glass pane therein and lighting means disposed adjacent said pane and exteriorly thereof for illuminating the

interior of said case, of means for preventing visible reflection of said lighting means upon said pane comprising a canopy mounted upon said case and disposed over said lighting means,



and a light shield pivotally connected adjacent the lower edge of said canopy and projecting laterally therefrom toward said pane and below said lighting means.

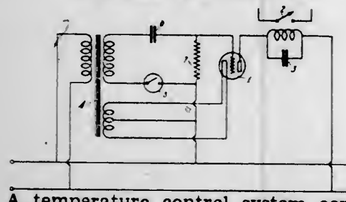
1,949,254

ALTERNATING CURRENT RELAY

Waldemar Ilberg, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application July 18, 1931, Serial No. 551,731. In Germany July 8, 1930

2 Claims. (Cl. 175—320)



1. A temperature control system comprising, a thermionic tube having a grid electrode, a cathode and an anode electrode, a circuit including a relay winding connecting said anode and cathode to a source of alternating current, said relay being operable upon a variation of intensity of current flowing in said winding in said circuit, an input circuit including an inductance energized by alternating current connected by a switch and a phase shifting means between the control electrode and cathode of said tube, said phase shifting means comprising a capacity to offset the effect of the inductance in said circuits and insure that the alternating current potentials reaching said grid when said switch is closed are in phase opposition with respect to the alternating current potentials reaching said anode, and a resistance connected in parallel with said control electrode cathode impedance to apply an operating potential to said control grid when said switch is open.

1,949,255

CORRUGATED BOARD

Charles L. Keller, Cincinnati, Ohio, assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio

No Drawing. Application July 2, 1928

Serial No. 289,933

1 Claim. (Cl. 154—55)

A composite corrugated board comprising at least one liner ply and at least one corrugated filler ply formed from the felted product of a pulp comprising asphalt in minute uncoated particles and vegetable fibers in intimate and stable relation, said board consolidated under heat and pressure whereby the meeting points of said plies are interfused.

1,949,256

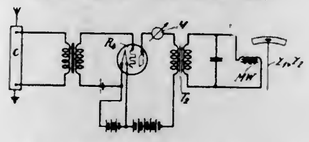
RADIO DIRECTION FINDER

Ernst Kramar, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Application June 20, 1931, Serial No. 545,730

In Germany June 23, 1930

16 Claims. (Cl. 250—11)



1. In a radio direction finder, the combination of means for transmitting signals in each of two directions, said signals for each direction having the same frequencies, one frequency of signals transmitted in one direction having its phase shifted a predetermined amount with respect to the corresponding frequency of signals transmitted in the other, means for receiving said signals, means for rectifying the received signals, means for combining with each other the mean values of received signals transmitted in one of said directions with those transmitted in the other, and means responsive to the combined signals for indicating the intensity of signals transmitted in each of said directions.

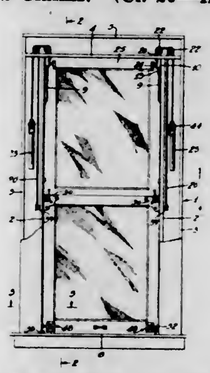
1,949,257

WINDOW CONSTRUCTION

Sebastian P. Neuhausen, Lombard, Ill.

Application April 13, 1931. Serial No. 529,859

2 Claims. (Cl. 20—42)



1. A window structure comprising a window frame, a window disposed in the frame, a pair of track members connected with the sides of the frame, a movable element slidably mounted on each of the track members, means for connecting the elements with window weights, and bracket members connected with the window and detachably connected with the movable elements.

1,949,258

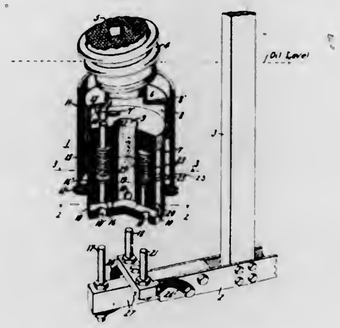
ELECTRIC CIRCUIT BREAKER

William E. Paul, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application May 20, 1932. Serial No. 612,523

5 Claims. (Cl. 200—150)

1. A circuit breaker comprising an explosion chamber pot immersed in an insulating liquid, means forming in said pot a pressure generating chamber and a plurality of passages including a centrally disposed passage communicating with said chamber and with the exterior of said pot, respectively, a pair of coacting contacts separable in said pressure generating chamber, a plurality of pairs of arc interrupting contacts separable transversely of said passages, and an actuating



member common to the aforesaid pairs of contacts arranged to lower the movable arc interrupting contacts into said insulating liquid, the aforesaid contacts connected in series so that arcing pressure generated in said chamber is effective to produce an individual blast of insulating liquid from said central passage across the arc in each of said passages upon opening of the circuit.

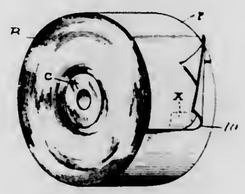
1,949,259

WOUND ROLL

Thomas J. Salsman, Chicago, Ill., assignor to Rockwell-Barnes Company, Chicago, Ill., a corporation of Illinois

Application April 22, 1933. Serial No. 667,365

2 Claims. (Cl. 206—58)



1. A wound paper roll having its outer end extending closely over the next adjacent convolution for the full width of the roll and connected thereto by a spot of adhesive which is confined to an area intermediately of the ends of the roll, the roll edge at its outer end extending substantially in a straight line lengthwise of the roll with the corners adjacent the end unsecured with all fitting close to the next adjacent convolution of the roll, whereby one of said corner portions may be turned away from the curved surface of the roll and forms an oblique line of flexure which meets an edge of the roll at a point inwardly of the spot with respect to the outer end of the paper, from which point the paper may be torn along a line substantially parallel to the axis of the roll by further turning of the corner portion.

1,949,260

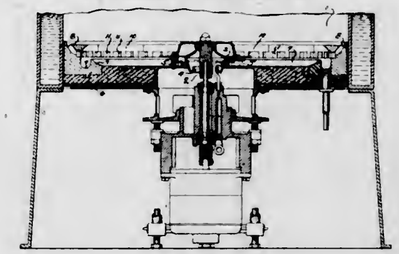
OIL BURNING APPARATUS

William P. Schenck and Joseph Mazzoli, Stamford, Conn., assignors to Petroleum Heat and Power Company, New York, N. Y., a corporation of Delaware

Application December 15, 1931

Serial No. 581,106

11 Claims. (Cl. 158—4)



1. Combustion chamber construction for liquid fuel burners comprising in combination a plurality of arc-shaped refractories laid end to end to provide a circular structure, said refractories being provided on their inner faces with outer and inner outwardly and upwardly curved deflecting surfaces and with an intermediate groove or gutter, and a plurality of other arc-shaped refractories laid end to end supported by the first mentioned refractories in spaced relation thereto, the last mentioned refractories being curved on their underside and disposed adjacent to but spaced from the outer deflecting surface of the first mentioned refractories.

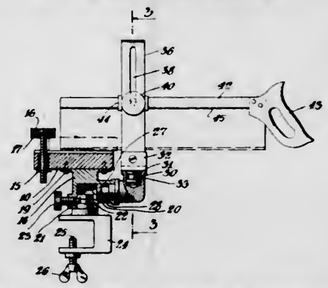
1,949,261

MITER BOX AND SAW GUIDE

Frank Smetak, New York, N. Y.

Application October 30, 1933. Serial No. 695,780

3 Claims. (Cl. 143—89)



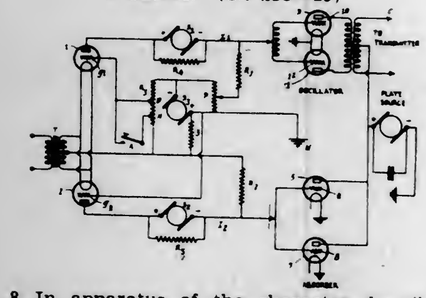
1. In a miter box having a graduated support for the work piece, an L-casting to which said support is attached, provided with an L-shaped chamber, grooved heads normally arranged in the branches of said L chamber, a clamp with which one of said heads is formed to clamp the support to a work bench or table, a set screw entering the groove in said clamp head to lock the same in its adjusted position, a grooved head on a second chambered L-member movable in the other branch of said first-named L-chamber, a set screw to engage the groove of said head to lock it in any of its adjusted positions, a saw guide and a boss formed with the same having a lower grooved head movable in the chambers of said second L-member to allow a turning of the saw guide and saw in the same at any desired angle to the work piece according to the graduations on said support.

1,949,262
GAUGING, SEVERING, PILING, AND HOLDING MECHANISM FOR SHEET MATERIAL
Joseph A. Stromelly, New York, N. Y.
Application February 6, 1931, Serial No. 514,051
Renewed May 10, 1933
5 Claims. (Cl. 164—78)



1. A holding device for sheet material comprising a mount, a series of vertical pointed spikes movable upwardly and downwardly in said mount with their pointed ends up and their base ends down, a handle movable with respect to said mount, and a quick shift mechanism comprising levers operatively connected with said handle and said spikes whereby the spikes may be raised to their effective sheet-holding positions and lowered to their ineffective positions as a result of a simple forward and backward movement of the handle.

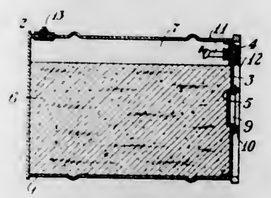
1,949,263
TRANSMITTER SUPPLY SOURCE
Raymond Villem and Roger Aubert, Paris, France, assignors to Compagnie Generale de Telegraphie sans Fil, Paris, France, a corporation of France
Application July 16, 1930, Serial No. 468,278
In France July 18, 1929
9 Claims. (Cl. 250—19)



8. In apparatus of the character described, a power tube, a keying tube having keying means in its input circuit and a connection between its output circuit and said power tube for controlling the output thereof, an absorber tube having its output circuit connected in parallel with the output circuit of the power tube, an impedance in the output circuit of the keying tube, and a connection between said impedance and the input circuit of the absorber tube, whereby said absorber tube is rendered conductive when the power tube is rendered non-conductive, and vice versa.

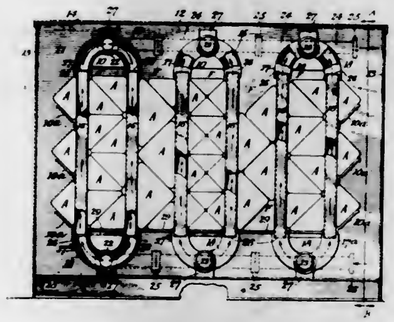
1,949,264
METHOD OF MAKING SOAP SOLUTION
Robert M. Bagley, Haddonfield, N. J., assignor to The R. M. Hollingshead Co., a corporation of New Jersey
Original application March 20, 1929, Serial No. 348,445. Divided and this application March 17, 1930. Serial No. 436,614
1 Claim. (Cl. 87—5)

The herein described method which consists in providing a metallic container having top and bottom openings near the side thereof and in operative alignment with each other, filling the container with a normally solid and form-retaining soap, while said soap is in an initially fluid condition; leaving a suitable clearance in the container unfilled by the soap, then placing the container in a generally horizontal position



with the openings thereof disposed on top, thereby causing the fluid soap to flow to the side of the container then disposed at the bottom, and opposite to the side of the container having the openings, allowing the soap to solidify in this condition, so that a passageway is provided intermediate the two openings in the container without the aid of any auxiliary apparatus.

1,949,265
FREEZING APPARATUS
Emil Behringer, New York, N. Y.
Application December 31, 1930
Serial No. 505,930
17 Claims. (Cl. 62—106)



13. A refrigerating device comprising in combination opposed hollow headers, having spaced ends and flat hollow panels disposed between the ends of said headers and communicating interiorly with the latter to provide a refrigerating compartment therebetween, said hollows being adapted to accommodate a refrigerating agent.

1,949,266
ADSORBENT
John C. Bird, Philadelphia, Pa., assignor to John Wyeth & Brother, Incorporated, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 6, 1932
Serial No. 636,579
4 Claims. (Cl. 167—55)

1. An intestinal absorbent comprising kaolin and aluminum hydroxide gel.

1,949,267
PRODUCTION OF ESTERS OF ORGANIC ACIDS
James Raymond Buckley and Carrol Adron Doran, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 26, 1931
Serial No. 518,498
20 Claims. (Cl. 260—106)

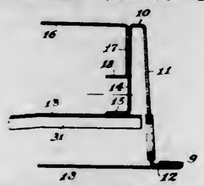
1. In the process of preparing esters of organic acids by reacting an aliphatic monohydroxy alcohol with an aliphatic monocarboxylic acid and distilling off the ester formed from the reaction mixture, the step which comprises subjecting the acid in liquid phase to the action of a reducing agent of sufficient strength to reduce the impurities in the acid without effecting material reduction of the alcohol and acid.

1,949,268
METHOD OF MOUNTING A SEA GROWTH SPECIMEN
Leora O. Clark, Oakland, Calif.
Application August 24, 1931. Serial No. 558,878
1 Claim. (Cl. 41—34)



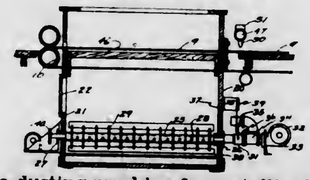
The method of mounting a specimen of algæ on a pane of glass by the use of liquid-absorbent sheets and a press having relatively movable and opposed pressure plates, which comprises the steps of applying one face of the specimen in flat-spread condition against a surface of the pane, applying a said liquid-absorbent sheet against the other face of the specimen, engaging the assembly of the pane and specimen and sheet between the press plates, and alternately compressing said assembly at relatively high pressures to express the sap and moisture from the specimen and replacing the sheet of the assembly, successive said compression steps being effected at progressively increasing unit pressures.

1,949,269
AUTOMOBILE DOOR CONSTRUCTION
Walter H. D'Ardenne, Jenkintown Manor, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 10, 1932. Serial No. 628,139
11 Claims. (Cl. 296—44)



1. In a door, in combination, opposite side pillars, each having a glass run flange extending toward the center of the door, and a panel having attachment flanges, one at each side, abutting and secured to the opposite side pillars and having a glass run flange extending from the edge of each attachment flange, and spaced from the glass run flanges of the pillars, the glass run flanges of the pillars and panel defining glass run channels at opposite sides of the door.

1,949,270
DEVICE FOR DUSTING METALLIC SHEETS
Ralph B. Dimmick, Butler, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application April 20, 1931. Serial No. 531,416
5 Claims. (Cl. 91—59)



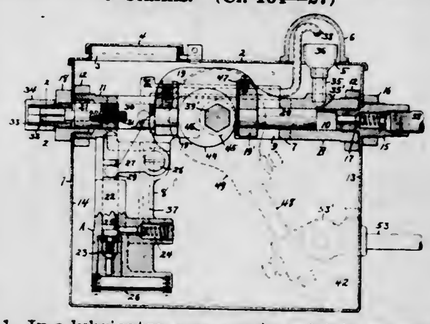
1. In a dusting machine for metallic sheets, the combination of a closed chamber, means for conveying sheets thereto, means for maintaining in said chamber a body of dusting material out of contact with said sheets, a hollow shaft passing through said chamber in contact with said body of material, means for rotating said shaft, mechanical agitating means non-rotatably fixed to said shaft, perforations in said shaft, and means for supplying fluid under pressure to said shaft.

1,949,271
SURGICAL BANDAGE
Daniel J. Duhamel, Milford, Conn., assignor to The Bay Company, Bridgeport, Conn., a corporation of Delaware
Application September 2, 1933. Serial No. 687,934
3 Claims. (Cl. 128—268)



1. A bandage of the character described, including a dressing portion, attachment portions having adhesive surfaces at opposite sides of the dressing portion, a strip of protective material tacked to one of said adhesive surfaces, extending across the dressing portion, terminating close to the dressing portion and tacked to the other adhesive surface, and a second protective strip tacked to said other adhesive surface and extending part way over the other strip.

1,949,272
FORCE FEED LUBRICATOR
Nestor Fries, Fort Wayne, Ind., assignor, by mesne assignments, to Dudley S. Golding and C. W. Murchison, Dallas, Tex.
Application March 28, 1932. Serial No. 601,557
9 Claims. (Cl. 184—27)



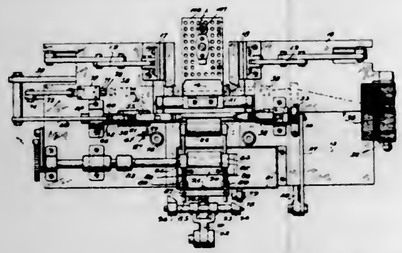
1. In a lubricator, a reservoir, a driving member rotatively mounted in the reservoir provided with eccentrics and complemental concentric bearing

collars, ratchet mechanism actuating said driving member, pumping units disposed in said reservoir each provided with co-operating supply and feed pumps and a frame supporting said pumps that bears upon the corresponding collars, and having a yoke operatively connecting said pumps with the corresponding eccentric, adjusting collars on each frame respectively engaging the opposite walls of said reservoir to center said frame relative to said driving member, means securing each frame to said walls, and leads connected respectively with the outlets of the feed pumps of said units.

1,949,273
BAG MAKING MACHINE

Burpee D. Greenlaw, Fitchburg, Mass., assignor to The Brown Bag Filling Machine Company, Fitchburg, Mass., a corporation of Massachusetts

Application August 6, 1931. Serial No. 555,620
31 Claims. (Cl. 93—76)

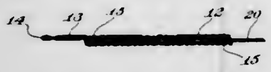


1. In an envelope machine, a platen, flap folders for respective flaps of a blank, and means to hold the blank while the flaps are folded including a string holding device adapted to hold a string taut therein, constructed and operative to move the string into pressing work-holding engagement with the blank at the line of fold, during operation of the respective folder, means to move the string holding means into and out of operative position relative to the fold, and means to operate the folder while the string is in taut pressing engagement with the blank.

1,949,274
BINDING TAPE

Emil Grube, Keene, N. H., assignor to International Narrow Fabric Company, Keene, N. H., a partnership composed of Frederick Graf, Emil Grube, and Ralph Rieth

Application February 20, 1933. Serial No. 657,582
4 Claims. (Cl. 139—384)

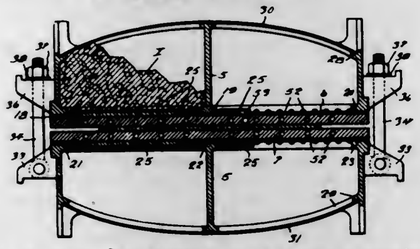


4. A binding tape for binding the edge of a garment, comprising a normally flat woven body adapted to be bent around the edge of the garment and be attachable to the opposite faces thereof, and a relatively narrow edging secured to said body at about the longitudinal centre thereof, said edging lying normally flat with said body with overlap onto said body and adapted to extend beyond the bound edge of the garment in substantial extension of that portion of said body secured to the outer face of the garment when said body is bent around the edge thereof as aforesaid.

1,949,275
BELT VULCANIZING APPARATUS

James C. Heints, Lakewood, Ohio

Application May 13, 1932. Serial No. 611,174
4 Claims. (Cl. 18—17)

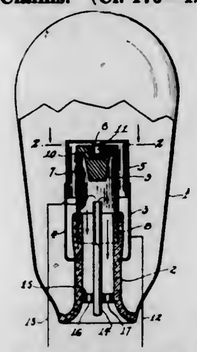


1. A belt vulcanizing apparatus comprising upper and lower frame members, upper and lower platens secured to said frame members respectively electrical heating elements for heating said platens, a cover for each of said frame members, heat insulating material disposed between said covers and platens, the surface of said frame contiguous to said platens being grooved to reduce heat loss by conduction through said frame.

1,949,276
ELECTRON DISCHARGE DEVICE

Charles E. Huffman, Montclair, N. J., assignor, by mesne assignments, to Radio Corporation of America, a corporation of Delaware

Application May 15, 1931. Serial No. 537,593
4 Claims. (Cl. 176—126)



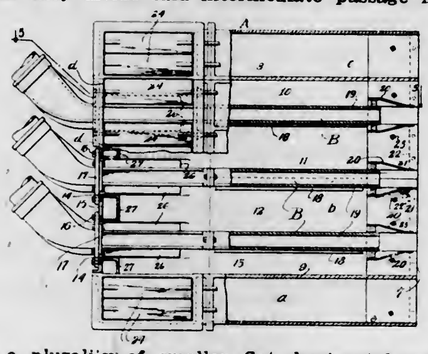
1. A crater lamp comprising an envelope, a metal thimble sealed in the wall of the envelope and forming therewith a closed vessel containing an attenuated gas therein, a second metal thimble telescoped over the first thimble and supported in spaced relation thereto from the envelope, the first thimble having a recess in the end wall thereof and the second thimble having an aperture therein in alignment with the recess and converging toward the recess, and leads from said thimbles passing through the envelope.

1,949,277
FINELY DIVIDED FUEL BURNER

George P. Jackson, Flushing, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a corporation of Delaware

Application July 19, 1928. Serial No. 293,807
5 Claims. (Cl. 110—28)

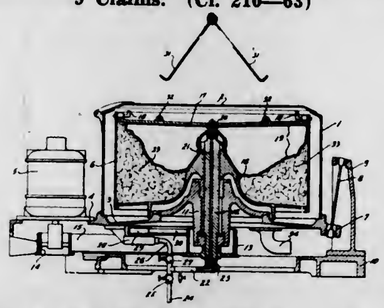
1. A finely divided fuel burner comprising a casing having an open end, means dividing the casing into upper, lower and intermediate air passages discharging through the open end of the casing, the intermediate passage being substantially larger than the others, a plurality of fuel nozzles in said intermediate passage so arranged that they divide said intermediate passage into a plurality of smaller flat, horizontal passages and the open end of said intermediate passage into a plurality of flat, horizontal air discharge openings, and means for independently controlling the air to said upper, lower and intermediate air passages.



1,949,278
COMBINED PRESSURE AND CENTRIFUGAL EXTRACTOR

George W. Johnson, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio

Application June 12, 1931. Serial No. 543,829
9 Claims. (Cl. 210—63)



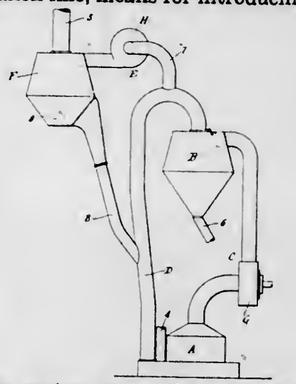
5. In a machine of the class described, for extracting liquids from fabric articles, a perforate container for receiving the articles and having a rigid cover arranged to be removably secured in closed position on the container, a flexible bag secured with said cover to be disposed within said container when said cover is in closed position, and means for inflating said bag to cause its expansion against the work and including a fluid connection leading through the container wall, said connection being arranged to permit withdrawal of the bag with removal of the cover sufficiently to load and unload the container.

1,949,279
SEPARATING SYSTEM

Henry Kreisinger, Piermont, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a corporation of Delaware

Application March 3, 1931. Serial No. 519,798
7 Claims. (Cl. 209—144)

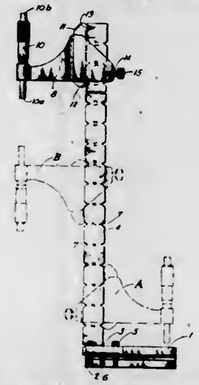
1. In a separating system, a mill, a centrifugal separator, a conduit between the mill and separator, a return line leading from said separator to said mill, a branch line leading off from and returning to said line, a centrifugal concentrator in said branch line, means for introducing heated gas into the system, means for setting up a current of gas in the system, and means for exhausting gas in the system from said concentrator.



1,949,280
MEASURING APPARATUS

Stephen T. Lester, Cleveland, Ohio

Application December 8, 1928. Serial No. 324,643
9 Claims. (Cl. 33—165)



8. Measuring apparatus comprising a beam having a notched edge, a carrier movable upon the beam, a measuring device for indicating small distances supported by the carrier, the carrier having two spaced projections rigidly fixed thereto and engaging the beam at points remote from each other, one of the projections having selective wedging engagement with said beam at any notch to positively locate the carrier, and clamping means pressing the projections against the beam.

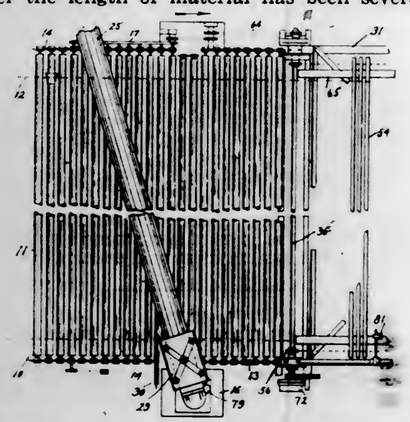
1,949,281
FEEDER

Richard C. Moore, Painesville, Ohio, assignor to The Coe Manufacturing Company, Painesville, Ohio, a corporation of Ohio

Application December 3, 1931. Serial No. 578,804
20 Claims. (Cl. 164—68)

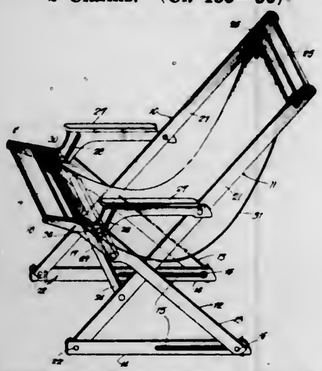
20. In an apparatus of the character described, a support for sheet material moving at a constant speed therealong, means for severing the sheet material into lengths while in motion, a feed end having multiple deck conveyors for conveying the severed length of material there-

along, a tipple conveyor having one end pivotally connected adjacent said support and the opposite end free and adapted to be moved into alignment with each of said feed end conveyors, a drier having multiple deck conveyors in alignment with the respective conveyors of said feed end and through which the severed lengths of material are conveyed at drying speed, means for operating said tipple conveyor at sheet material speed during the severing operation, means for increasing the speed of said tipple conveyor after the length of material has been severed,



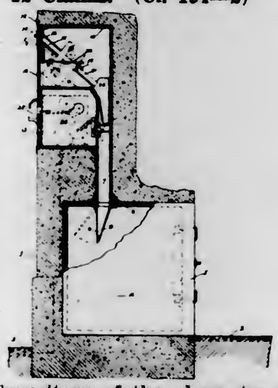
means for operating said feed end conveyor at the increased speed of said tipple conveyor during the discharge of a severed length of material therefrom, means for reducing the speed of said feed end conveyors to the drying speed of said drier conveyors before the severed length of material is discharged, means for automatically moving the free end of said tipple conveyor into alignment with each succeeding lower conveyor of said feed end, and means for returning the free end of said tipple conveyor to its uppermost position after it has been moved into alignment with the lowermost conveyor of said feed end.

1,949,282
FOLDING CHAIR
Thomas F. Murray, New York, N. Y.
Application January 17, 1931. Serial No. 509,502
2 Claims. (Cl. 155—56)



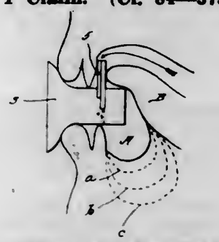
1. A folding rocking chair comprising a pair of spaced parallel base bars having slots adjacent their rear ends, a back frame section including side bars which are pivotally connected to the front ends of said base bars, a seat frame section including side bars freely crossing the side bars of said back frame section, the lower ends of the side bars of the seat frame section being provided with pins which extend into said slots, a pair of arm members pivoted to the side bars of said back frame section, said arm members having elongated slots therein provided with angular branches at one of the ends thereof, pins extending from the side bars of the seat frame section and disposed within said slots, and a fabric strip having its ends respectively connected to the upper forward end of said seat frame section and to the top of said back frame section.

1,949,283
DEPOSITORY
John J. Murtaugh, Jr., Floral Park, N. Y., assignor to Mosler Safe Co., Hamilton, Ohio, a corporation of New York
Application October 21, 1932. Serial No. 638,908
12 Claims. (Cl. 194—2)



1. In a depository of the character described having a receiving aperture and a door therefor, in combination, a device for stamping a deposited object, operating means therefor, a device for halting a deposited object in position to be stamped by the stamping device, a device for issuing a receipt, driving means therefor including a control member movably positioned to be displaced by a deposited object to start the driving means, and means associated with the door whereby movement of the door from open to closed position sets the stamping mechanism in operation, and then actuates the halting device to release the deposited object to start the driving means.

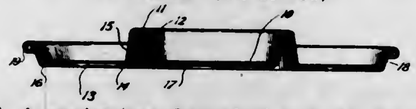
1,949,284
MUSICAL TOY OR INSTRUMENT
Edwin C. Peckham, New York, N. Y.
Application March 24, 1932. Serial No. 600,892
1 Claim. (Cl. 84—375)



A device of the class described comprising a hollow cylindrical body portion having a bell or trumpet end and provided with an opening in one

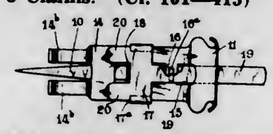
side, a relatively thin air tube extending radially into said opening, an extension having a perforation, said extension closing said cylindrical body portion except for said perforation, and a tongue extending angularly with respect to said extension from one edge of the perforation thereof, said extension and tongue being free to vibrate in the body under pressure of air passing therethrough.

1,949,285
SERVICE TRAY
Kirk E. Porter, Wooster, Ohio, assignor to The Buckeye Aluminum Company, Wooster, Ohio, a corporation of Ohio
Application May 19, 1933. Serial No. 671,873
2 Claims. (Cl. 65—53)



1. A service tray formed of a single sheet of metal having an upstanding outwardly flared rim at the periphery of the tray, an upstanding rib of inverted V-shape cross section stamped in the tray at a point spaced from the periphery thereof and forming a central well, said V-shape rib being of considerably greater height than said outwardly flared rim, an annular drainage channel in the bottom of the tray surrounding said V-shape rib, and an annular drainage channel in the tray at the bottom of said outwardly flared rim.

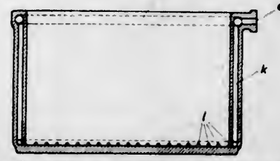
1,949,286
FEED GAUGE FOR PRINTING PRESSES
Charles L. Stiles, Columbus, Ohio
Application September 30, 1933
Serial No. 691,658
3 Claims. (Cl. 101—415)



3. In a feed gauge for printing presses, said gauge including a frame provided at one end with a tympan-engaging prong and at its other end with a perforated gauging head, said frame also having a slot between said ends provided with a rigid bridging portion, the latter having a projection struck upward therein, a flexible stripper member having a tongue portion and a cross head, the latter provided with bent ears slidably engaging said frame with the said tongue portion extended through the perforation of said gauging head, said tongue portion flexed at and by said upward projection between said gauging head and said bent ears to frictionally hold said tongue in any position to which it is adjusted.

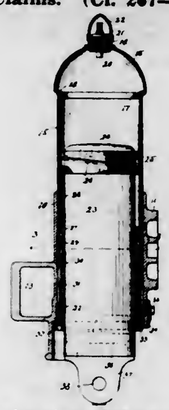
1,949,287
DYEING AND WASHING TRAY
Paul Tschammer, Lugknitz-Oberlausitz, Germany
Application October 1, 1931, Serial No. 566,250
In Germany October 2, 1930
1 Claim. (Cl. 8—19)

A dyeing and washing tray, comprising a bottom and a side wall consisting of a ceramic material, said wall having a substantially horizontal annular conduit formed at the upper brim of the tray, means communicating with said conduit for introducing a heating fluid into said conduit, a plurality of substantially vertical conduits formed within said wall and communicating with the first-mentioned conduit, another substantially horizontal annular conduit formed within said wall at the bottom of the tray and communicating with said vertical conduits, said heating fluid passing through said vertical conduits and into the second-mentioned horizontal conduit after having filled the first-mentioned



conduit, whereby a uniform heating of said wall is assured, and a plurality of horizontally spaced openings formed in said wall and leading to the bottom of the tray, said horizontally spaced openings being adapted to introduce the heating fluid filling the second-mentioned horizontal conduit into the interior of said tray at the bottom thereof.

1,949,288
HYDROPNEUMATIC STRUT
John F. Wallace, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application June 22, 1931. Serial No. 546,021
6 Claims. (Cl. 267—64)

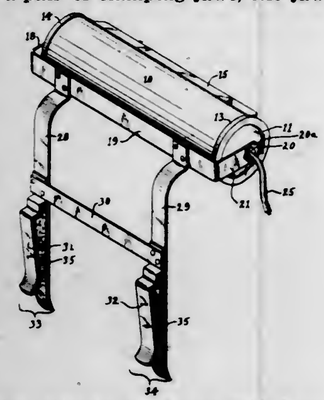


1. In a shock absorber of the fluid type, a cylinder, a piston movable therein, said piston having a piston head overhanging the side wall of the piston, and the open end of the cylinder being slidably fitted to the piston wall by a fluid-tight joint, whereby an annular space of varying size is provided between the cylinder and piston wall as the piston moves back and forth, said head having a spiral groove in its outer wall extending entirely around the periphery thereof and open top and bottom, whereby oil is adapted to flow into and out of said annular space from and to the interior of the cylinder beyond the piston.

1,949,289
MUSIC STAND LAMP
Lauritz W. Andersen, Waterbury, Conn.
Application September 22, 1931
Serial No. 564,263
2 Claims. (Cl. 240—4)

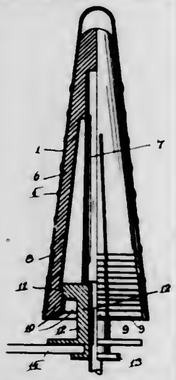
1. In a music lamp fixture, a U-shaped yoke member having a lamp casing detachably supported by the legs thereof, an H-shaped depend-

ing frame secured to the base of said yoke member, the lower ends of the legs of said frame each having a pair of clamping jaws, one jaw of each



pair being stepped to permit said fixture to be attached to a plurality of different sized music stands.

1,949,290
METAL WINDING CONE
Kurt W. H. Barthelmes, Rochester, N. Y., assignor to K. Barthelmes Manufacturing Co. Incorporated, Rochester, N. Y.
Application November 4, 1929. Serial No. 404,755
8 Claims. (Cl. 242—121)



8. In combination with a supporting spindle, of a tubular spool having a polygonal cross section with uniformly spaced angular corners extending longitudinally along the winding portion thereof and outwardly yielding sides connecting said corners, said spindle being adapted to expand the yielding sides outwardly at the middle thereof on the insertion of the spindle into the spool and thereby reducing the diameter of the spool at the corners thereof.

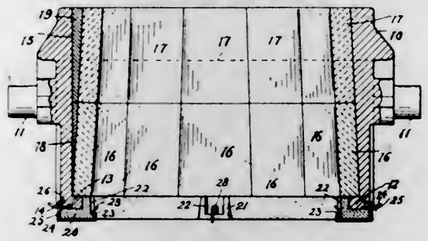
1,949,291
METAL WINDING BOBBIN
Kurt W. H. Barthelmes, Rochester, N. Y., assignor to K. Barthelmes Manufacturing Co. Incorporated, Rochester, N. Y.
Application November 10, 1930
Serial No. 494,644
11 Claims. (Cl. 242—121)

2. A bobbin formed up of sheet metal and having a hollow polygonal cone shaped body, a concentric groove encircling said body near the base thereof and means provided on the edges of said body to cooperate with said groove and prevent



a slipping of the thread on said body during the winding and unwinding thereof from said body.

1,949,292
HOT TOP
Walter M. Charman and Gustave A. Peterson, Cleveland Heights, Ohio; said Peterson assignor to The Ferro Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application February 15, 1932. Serial No. 592,886
11 Claims. (Cl. 22—147)



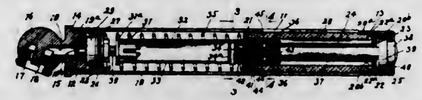
1. In a hot top, a metal casing tapered upwardly and adapted to receive upwardly tapered lining blocks, said casing comprising means for supporting said blocks and having in its inner wall a recess of a size sufficient to receive one of said blocks somewhat behind the final position of the block, and means adapted to be inserted into said recess behind the block to crowd the latter forward into position, whereby all of the lining blocks are locked in place.

7. In a hot top, a casing having small holes in its outer surface near the lower end thereof, a bottom lining mounted on the lower end of the casing, and wire clips having angular ends fitted within said holes and having fingers in resilient clamping relation with said bottom lining.

1,949,293
PRESSURE GAUGE
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 28, 1932
Serial No. 644,589
9 Claims. (Cl. 73—111)

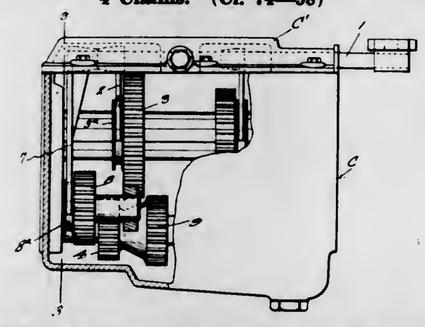
1. A pressure gauge comprising a tubular casing, a piston slidable in said casing and adapted to be moved in one direction by fluid pressure, a spring for moving said piston in the opposite direction and for resisting the first named movement thereof, a plunger slidable in said casing

and adapted to be moved in one direction by said piston, and means for holding said plunger in the position to which it has been moved by said pis-



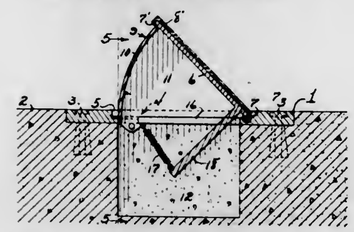
ton and including a ball engaging said plunger, and spring tension means for holding said ball in plunger engaging position.

1,949,294
GEAR TRANSMISSION
Paul E. Darling and Frank T. Bromley, Lansing, Mich.
Application July 24, 1931, Serial No. 552,984
Renewed December 19, 1933
4 Claims. (Cl. 74—58)



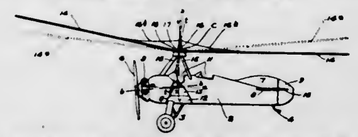
1. In a transmission mechanism including spaced fixed gears and coacting movable gears, means for shifting said movable gears, said means when actuated in one direction from a neutral position connecting the movable gears to each other and one of the movable gears to one of the fixed gears and when moved in a different direction from its neutral position connecting the other of the fixed gears to one of the movable gears and maintaining the other gears in their inoperative position.

1,949,295
TRAFFIC SIGNAL
Alvin F. Dean, New Orleans, La.
Application December 27, 1932
Serial No. 649,027
4 Claims. (Cl. 40—125)



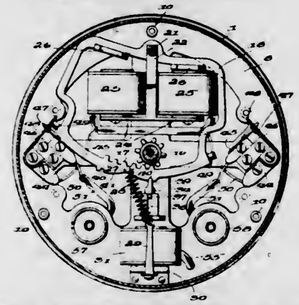
4. A signal comprising a supporting plate having an opening disposed over a pit in a roadway and provided with a recess about said opening, a cushioning element in said recess, a signal plate hinged to the supporting plate, means for normally maintaining the signal plate in signalling position, and a cushioned cover mounted on the signal plate and having signal characters.

1,949,296
AIRCRAFT WITH ROTATIVE WINGS
Juan de la Cierva, Madrid, Spain, assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application June 25, 1931. Serial No. 546,680
19 Claims. (Cl. 244—19)



1. In an aircraft, rotative wing means, a rotative axis member on which said wing means are mounted in position to be aerodynamically actuated by the relative flight wind, and means providing for movement of the wing means at least transversely of their general rotative path under the influence of varying air-flow and other forces in flight, by which arrangement the lift line of the rotative wing means shifts considerably laterally of the center of gravity of the machine toward that side on which the wing means are moving rearwardly, during high speed forward flight of the aircraft, and supplemental fixed wing surfaces set at substantially equal positive dihedral angles at each side of the craft, the axis of the rotative wings being set at a predetermined angle such that a plane perpendicular to said axis is laterally tilted downwardly with respect to the general plane of said fixed wing surfaces at that side of the craft where the rotative wings are retreating with respect to forward flight direction, the degree of tilt of the axis being such that the said lateral offset of the lift line of the rotative wing means toward one side of the center of gravity is reduced in forward flight and passes to the other side of the center of gravity in vertical descent, whereby the average position of the lift line substantially coincides with a longitudinal vertical plane through the center of gravity and the body and fixed wings tend to maintain a substantially horizontal attitude, laterally considered, over most of the range of flight speeds.

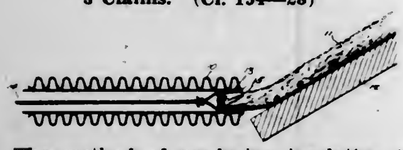
1,949,297
SIGNAL DEVICE
Charles F. A. Eddy, New London, Conn.
Application May 24, 1929, Serial No. 365,670
Renewed January 18, 1934
7 Claims. (Cl. 177—327)



1. A signal indicator including a casing, a shaft mounted therein, an indicating arm carried by said shaft, a sector in annular form having one side pivotally mounted within the casing and having the inner edge of its opposite side geared to the shaft for causing a movement of the indicating arm to an extreme indicating position, electro-magnets disposed in position to act on the

first-mentioned side of said sector, said sector having notches in its outer edge, and electromagnetically actuated means for engaging in the notches to releasably hold the sector in an extreme indicating position.

1,949,298
METHOD OF MAKING HEAT INSULATING TAPE
George S. Fabel, Trenton, N. J., assignor to Southern Asbestos Company, Charlotte, N. C., a corporation of Delaware
Application December 17, 1932
Serial No. 647,797
3 Claims. (Cl. 154—28)

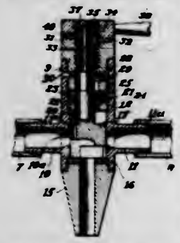


1. The method of producing insulation tape comprising providing an asbestos textile tube and a roving of unconfined and loosely compacted asbestos fibre, moving the textile tube over and from the end of a shield having a relatively low coefficient of friction as compared to the textile tube, passing the roving through said shield and employing the frictional engagement of the roving with the tube to draw the roving through the shield.

1,949,299
SULPHURIC ESTER OF THE ANTHRAQUINONE SERIES AND PROCESS SUITABLE FOR MAKING THE SAME
David Alexander Whyte Fairweather and John Thomas, Grangemouth, Scotland, assignors to Scottish Dyes, Limited, Grangemouth, Scotland
No Drawing. Application November 12, 1928, Serial No. 318,997. In Great Britain November 18, 1927
8 Claims. (Cl. 260—98)

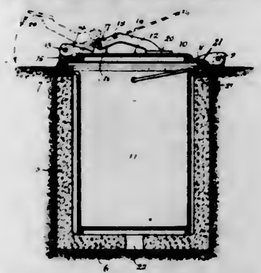
5. A method as claimed in claim 4 in which the starting materials are selected from the group consisting of 2-acetyl-amino-anthraquinone, 2-anthraquinonyl-urethane, 1-acetyl-amino-anthraquinone, and 1-acetyl-methyl-amino-4-brom-anthraquinone.

1,949,300
MIXING FAUCET
Emil H. Fitter, New York, N. Y.
Application July 10, 1931. Serial No. 549,997
2 Claims. (Cl. 251—4)



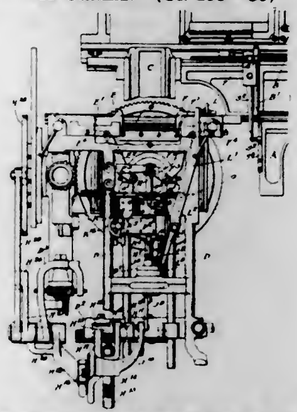
1. A mixing faucet comprising a casing having a duality of inlets disposed respectively on diametrically opposite sides and a pendent outlet, a valve plug mounted in the casing for both angular and axial movement and cut away at the under edge and on the periphery for a part of the extent of the latter, a cap closing the casing and positioned axially of the outlet, a cylindrical member threadingly engaged with the cap, the plug having a stem of which a part is cylindrical and extends slidingly through said cylindrical member, a part of the stem between the cylindrical portion and the plug being formed with an angular cross-section, means for locking the stem to the cylindrical member to preclude relative axial movement of the two, means for imparting angular or turning movement to the cylindrical member, and a lever extending through a lateral slot in the casing and having an inner end slidably engageable with the angular portion of the stem.

1,949,301
REPOSITORY FOR REFUSE CANS
George Forni, Oakland, Calif.
Application September 5, 1929. Serial No. 390,626
1 Claim. (Cl. 220—45)



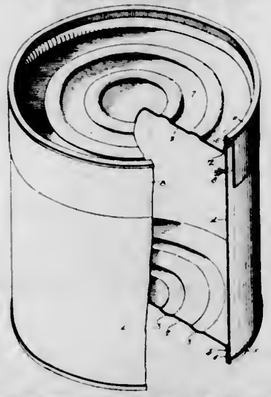
A repository for refuse cans comprising a cylindrical receptacle made of concrete, a cylindrical metal ring overlying the top of the receptacle so as to be flush with the faces thereof, an annular groove in the top edge of the ring for holding oil or the like, and a substantially flat cover for the repository adapted to rest on the outer margin of the groove, the inner margin of the groove being lower than the outer margin whereby spacing is provided between the inner margin and the cover.

1,949,302
SLUG CASTING MACHINE
Frank C. Frolander, Elizabeth, N. J, assignor to Mergenthaler Linotype Company, a corporation of New York
Application July 1, 1932. Serial No. 620,325
48 Claims. (Cl. 199—50)



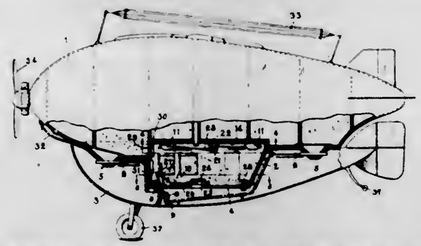
1. In a slug casting machine of the linotype class equipped with a first elevator and line justifying devices, the combination of a pair of line clamping jaws, a periodically operated device distinct from the first elevator and the line justifying devices, and distinct actuating connections between said device and the respective jaws.

1,949,303
CONTAINER
Ralph Theodore Garfein, Easton, Pa., assignor to The Canister Company, Phillipsburg, N. J., a corporation of New Jersey
Application February 1, 1933. Serial No. 654,713
6 Claims. (Cl. 229—5.5)



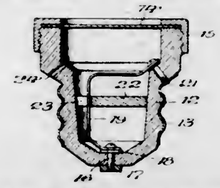
5. A container including a wall member and a removable closure comprising a skirt embracing the end portion of the surface of said wall member, an end member within said skirt, a flange on said end member secured to said skirt, and a shoulder formed in the flange arranged to engage and overlap the edge of the wall member.

1,949,304
AIRCRAFT
George W. Hardin, Greeneville, Tenn.
Application July 30, 1932. Serial No. 626,955
10 Claims. (Cl. 244—3)



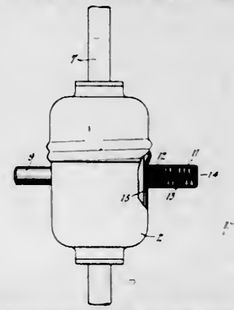
1. An aircraft including a dirigible gas bag assembly and control actuating means therefor mounted on a part of the gas bag assembly, a heavier-than-air airplane and control actuating means therefor mounted on a part of the airplane, a cabin common to the gas bag assembly and the airplane, and connector means for uniting the gas bag assembly, the cabin and the airplane for flight together, for uniting the cabin and the gas bag assembly for flight together independent of the airplane, and for uniting the cabin and the airplane for flight together independent of the gas bag assembly, the two sets of control actuating means being independently accessible from within the cabin when the gas bag assembly, the cabin and the airplane are united for flight together.

1,949,305
RENEWABLE FUSE PLUG
John W. Hooley, Larchmont, N. Y.
Application February 7, 1933. Serial No. 655,661
2 Claims. (Cl. 200—130)



1. A renewable fuse plug consisting of a plug member having a tapering chamber, a flash guard disk frictionally engaging the wall of said tapering chamber at an intermediate point thereof, said guard disk having a marginal recess, and a fuse member the upper portion of which extends transversely across the chamber above said guard disk and an intermediate portion of which extends through the said marginal recess of the guard disk.

1,949,306
ELECTRIC SWITCH
Herman G. Horning, New York, N. Y.
Application April 22, 1933. Serial No. 667,473
1 Claim. (Cl. 200—172)

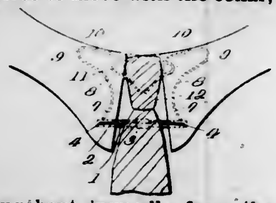


In a switch structure, a standard switch having a pair of oppositely positioned pins for opening and closing the switch structure, said standard switch structure including a casing having notches through which said pins project, a cap surrounding one of the pins and extending through one notch thereof, said cap having a closed end and a flange portion underlapping with part of the casing adjacent the last mentioned notch for holding the cap in place, and a spring acting on the closed end of the cap and on the end of the pin surrounded by the cap for normally holding said pin in an operated or functioning position.

1,949,307
SOFT COLLAR POSITIONER
Benjamin Isbell Hughes, Knoxville, Tenn.
Application September 18, 1931
Serial No. 563,628
3 Claims. (Cl. 24—49)

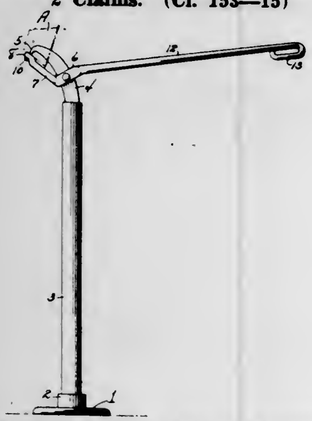
1. A soft collar positioner comprising a cross bar attachable to the collar between the points and the fold in the collar for spacing the ends of the collar, a metal frame rigidly supported by said cross bar, said frame including members engaging the collar at the fold adjacent the ends thereof for supporting the collar and a member connecting said collar supporting members and

shaped so as to permit said collar supporting members to yield independently, said frame and bar being free to move with the collar, said metal



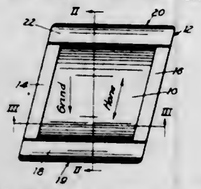
frame being bent inwardly from the cross bar so as to rest against the wearer so as to hold the collar straight and positioned away from the wearer.

1,949,308
PUNCH
Wesly F. Jurey and Austin W. Jurey, Norcatur, Kans.
Application May 15, 1933. Serial No. 671,230
2 Claims. (Cl. 153—15)



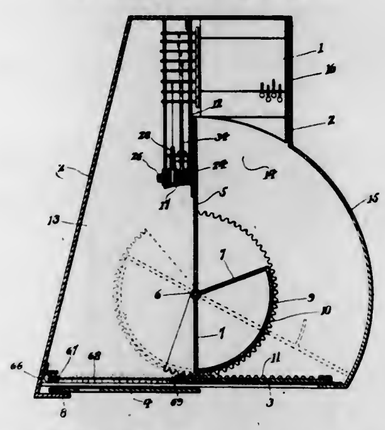
1. A tool comprising a base, a pedestal secured to and rising therefrom, an arcuate arm secured to the upper end of said pedestal, a punch head formed with said arm and disposed at an angle with respect thereto, a jaw head having a bore arranged therein, means for adjusting the depth of the working portion of the bore, a shank formed with said jaw head and being pivotally secured to the arm, and a handle formed on the shank for operating the jaw head in cooperation with the punch head.

1,949,309
HONE
Norman Katz, Tulsa, Okla.
Application December 7, 1932. Serial No. 646,180
3 Claims. (Cl. 51—212)



1. A razor blade hone comprising a hard steel hone, the working surface of which is prepared by grinding, a casing for said hone, means on said casing for guiding the blade at an acute angle to the grinding marks on the working surface of said hone.

1,949,310
BURGLARPROOF VAULT
Bernerd D. Kelly, Bidwell, Ohio, assignor of one-fourth to Bishop W. Kelly, Morral, Ohio, and one-fourth to Frank E. Heller, Marion, Ohio
Application December 16, 1932
Serial No. 647,657
15 Claims. (Cl. 20—1.01)



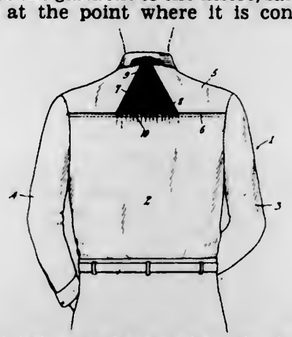
1. In a theft-proof device, a booth having a compartment for valuables and an entrance, a door normally separating the valuables compartment from the entrance, a door adapted to close said entrance, means connecting said doors for simultaneous movement, whereby when said first mentioned door is moved to allow access to the valuables, said second mentioned door will be moved to close the entrance, and means for locking said doors with the last mentioned door in closed position.

1,949,311
METHOD AND MEANS TO INCREASE THE ELECTRIC INSULATING PROPERTY OF CERAMICS SUCH AS PORCELAIN
Isidor Kitsee, Philadelphia, Pa., assignor to Mineralite Corporation, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application March 28, 1930, Serial No. 439,862. Renewed August 26, 1933
3 Claims. (Cl. 18—47.5)

1. The method of fabricating a ceramic article of manufacture, such as an electrical insulator, comprising adding a quantity of mineral wool to a body of clay, the major portion of the mixture being clay, thoroughly mixing the clay and wool to obtain a homogeneous product, molding the body of mixed clay and wool into an article of desired form, and baking the same at a temperature sufficiently high to fuse the wool, whereby the interior of said article is rendered dense, hard, and homogeneous throughout.

1,949,312
GARMENT
Herbert D. Konski, New York, N. Y.
Application May 3, 1933. Serial No. 669,259
3 Claims. (Cl. 2—122)

1. A garment of the character described including a yoke in the back extending from the neck opening downwardly, an elastic insert dividing said yoke, and a line of stitching connecting the body of the yoke with the remaining part of the garment and also connecting the remaining part of the garment to the insert, said remaining part at the point where it is connected to

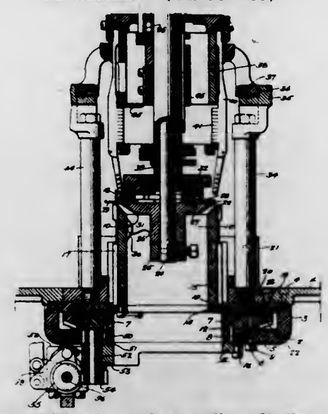


the insert being puckered when the insert is in its unstretched position.

1,949,313
PROCESS FOR IMPROVING COBALT-MOLYBDENUM ALLOYS
Werner Köster, Dortmund, Germany, assignor to Vereinigte Stahlwerke Aktiengesellschaft Dusseldorf, Germany
No Drawing. Application March 9, 1931, Serial No. 521,391. In Germany July 4, 1930
2 Claims. (Cl. 148—11.5)

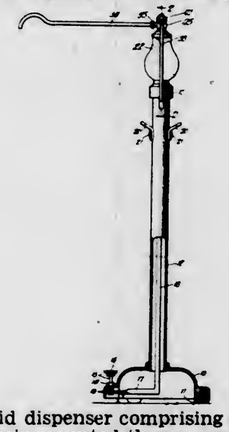
1. A process for obtaining alloys of high hardness consisting in forming an alloy of 10 to 35% of molybdenum and the balance substantially cobalt and heating said alloy to a temperature above 1000° C. and below the melting point of the alloy, then rapidly cooling said alloy and subsequently annealing it at temperatures between 500° and 900° C.

1,949,314
CYLINDER CONTROLLING MECHANISM FOR KNITTING MACHINES
Walter Larkin, Norristown, Pa., assignor to Fidelity Machine Company, Wilmington, Del., a corporation of Delaware
Application December 24, 1931
Serial No. 583,088
11 Claims. (Cl. 66—25)



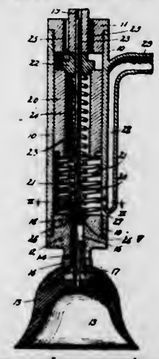
1. The combination of a needle cylinder, needles supported by said cylinder, a needle dial, needles supported by said dial in interposed relation to the needles carried by said cylinder, needle-wrapping elements correlated with predetermined needles respectively, means for rotating the cylinder and the needles carried thereby with respect to the wrapping elements to vary the correlative positions of the needles relative to the wrapping elements, and means for maintaining said interposed relation between the cylinder and dial needles during the said rotation of the cylinder needles relative to the wrapping elements.

1,949,315
PORTABLE FOOT PEDAL SOAP DISPENSER
Martin W. Levernier, Winnetka, Ill.
Application August 2, 1926. Serial No. 126,484
15 Claims. (Cl. 221—94)



13. A liquid dispenser comprising a standard, a liquid reservoir mounted thereon and comprising several parts, a pump carried by said standard, a tube connecting the parts of the reservoir and the pump barrel in assembled relation, a piston rod for the pump reciprocating through the tube, and manually operated means carried by the standard for operating the pump.

1,949,316
MASSAGING IMPLEMENT
Andrew M. Lockett, New Orleans, La.
Application December 8, 1930. Serial No. 500,887
12 Claims. (Cl. 128—40)

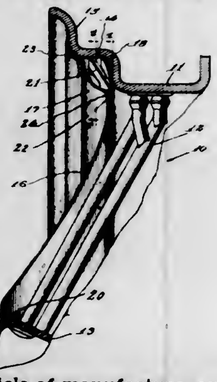


12. A vibratory and massaging device, comprising a hollow cylinder having plugs in its upper and lower ends provided with ports to establish communication with the interior of the upper and lower sections of said cylinder with the exterior of said cylinder, and an exhaust port in communication with said lower section and adapted to be connected to a source of suction producing means, a reciprocable piston within and engaging the in-

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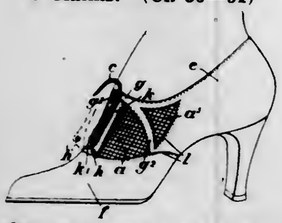
ner wall of the cylinder and provided with a passageway communicating with the interior of said upper and lower ends of said cylinder, a valve seat on the upper face of the piston, a reciprocable valve engaging said seat and controlling said passageway, means disposed within the cylinder and so constructed, arranged and cooperating with respect to said piston and valve to yieldingly and normally hold said piston and valve in contact with each other at said seat and in their upper position in said cylinder, and separated from each other to permit communication between the upper and lower ends of said cylinder through said passageway when said piston is drawn down by suction to the lower portion of said cylinder and in proximity to said exhaust port, and means attached to the lower end of said cylinder so constructed, arranged and adapted to cut off the communication of the interior of the lower end of said cylinder from the exterior of said cylinder.

1,949,317
ORNAMENTAL PLATE FOR WHEELS
George Albert Lyon, Allenhurst, N. J.
Application December 12, 1932
Serial No. 646,762
15 Claims. (Cl. 41—10)



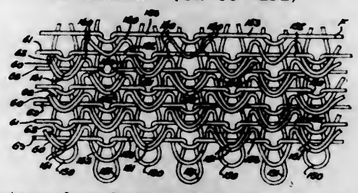
1. As an article of manufacture, an automobile wheel ornamental plate structure for disposition between the rim and hub of the wheel including a ring-like plate and a separate circular bead sufficiently resilient to be snapped into engagement with said rim for aiding in holding the outer marginal portion of the plate in cooperation with the wheel rim.

1,949,318
FOOTWEAR
Fritz Markowsky, Cologne, Surth, Germany
Application July 27, 1931, Serial No. 553,414
In Germany May 30, 1930
3 Claims. (Cl. 36—51)



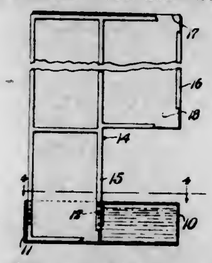
1. In a shoe, an upper provided with an instep opening, and an insertion for said opening including a loose-mesh fabric having part of its edge fastened to the upper at the edge of the instep opening, said fabric having a series of separated thread loops extending from its free edge adapted to engage a flexible drawing element drawn through said loops for tightening the insertion, and a reinforcing strip extending along the loose-mesh fabric adjacent to the junction of the fabric with the loops.

1,949,319
TERRY LOOP KNITTED FABRIC
Harry McAdams, Atlantic City, N. J.
Application January 4, 1930. Serial No. 418,582
8 Claims. (Cl. 66—191)



1. A terry loop knitted fabric having a knitted base web and terry loops formed from a multiplicity of yarns, one of said yarns being projected in terry loops from one face of the fabric between all of the stitch loops of the base web in any course across the fabric and extending across the stitches at the opposite face of the fabric, and another yarn being projected in terry loops from the last mentioned face of the fabric between all of the stitch loops in the same horizontal course from which the terry loops of the first mentioned yarn project, the second yarn extending across the stitch loops at the side of the fabric from which the first mentioned terry loops project.

1,949,320
AIR MOISTENER
John H. Mitchell, Bronxville, N. Y.
Application April 26, 1932. Serial No. 607,622
2 Claims. (Cl. 299—23)

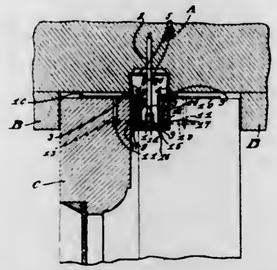


1. An air moistener consisting of an oblong receptacle adapted to fit beneath a heating radiator and having a longitudinal opening in the top thereof adjacent the rear edge, a plurality of sockets resiliently mounted within the opening, a plurality of supporting members adapted to fit the sockets and each consisting of an interiorly grooved inverted L-shaped frame having an open top and bottom and containing a plurality of absorbent sheets and adapted to be positioned between the coils of a heating radiator.

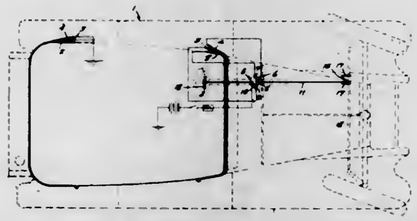
1,949,321
WEATHER-STRIP
Harry A. Myers, Franklin, Pa.
Application July 22, 1932. Serial No. 624,103
2 Claims. (Cl. 20—69)

1. A weather strip device for a window having sliding sashes, comprising a one piece metallic member adapted to be secured to the frame of the window and providing the parting bead for the

sashes, side walls included in said member and projecting outwardly from the frame, a front wall formed with the side walls in a manner to provide laterally directed beads at the juncture thereof, flanges formed with the side walls and cooperating with the beads to provide channels, a wear plate secured to the front wall and including inwardly directed spaced parallel portions engageable with the beads to be spaced from the side walls, members secured to the side rails of the sashes, and flanges formed with the sash carrying members and received in the channels for disposal in the space between the side walls and the inwardly directed spaced parallel portions for slidable movement.



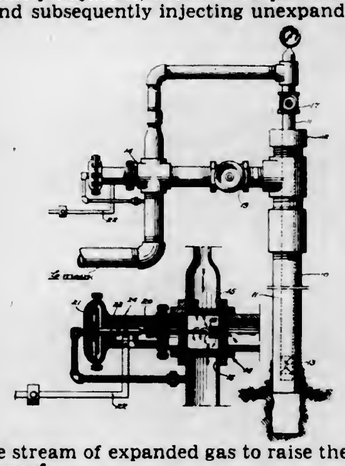
1,949,322
SWITCH
Bernard O'Hara and Walter Herring, Oklahoma City, Okla.
Application July 25, 1932. Serial No. 624,590
1 Claim. (Cl. 200—59)



A direction signal comprising a hand operated rotatable switch to make and break circuits to signals, a pivoted arm carried by the switch and movable therewith, a fixed track having a V-shaped notch to receive therein the arm and the walls of said notch providing diverging cam faces to act on said arm and cause pivotal movement thereof during the movements of the switch, a contractile spring between the track and the arm, and spaced extensions on a steering mechanism to move said arm to its normal position after being positioned in the path of said extensions by the cam faces.

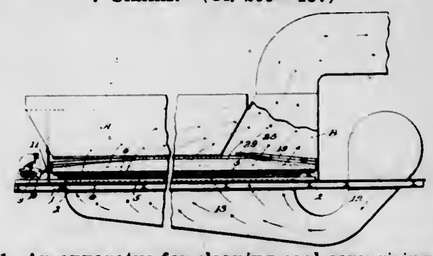
1,949,323
METHOD OF AND APPARATUS FOR CONTROLLING GAS WELLS
Herbert C. Otis, Shreveport, La.
Application April 21, 1932. Serial No. 606,693
7 Claims. (Cl. 166—21)

1. The method of operating high pressure gas wells comprising expanding the gas to produce a desired reduction of the pressure therein at, or immediately adjacent, the horizon producing the same and subsequently injecting unexpanded gas



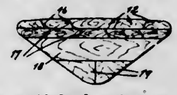
into the stream of expanded gas to raise the pressure thereof.

1,949,324
APPARATUS FOR DRY CLEANING OF COAL
Edward O'Toole, Sr., Gary, W. Va.
Application March 19, 1931. Serial No. 523,901
7 Claims. (Cl. 209—467)



1. An apparatus for cleaning coal comprising a longitudinally reciprocated pervious deck declined from its outer portion inwardly and provided with a longitudinal escape portion located intermediate said outer portion, the upper surface of the deck provided with means adapted to receive the refuse that is projected by the reciprocation outwardly and a feeding hopper having its upper portion embracing the whole deck and its outer marginal edges having feed passages communicating with said deck whereby the said hopper performs a double function of supplying coal to be cleaned and a dust hood embracing the said table, said hood being connected with means for removing the said dust from the dust hood.

1,949,325
CONSTRUCTION OF SPORTING ARTICLES
Percy Vincent Paul, West Concord, Sydney, Australia
Application January 7, 1931, Serial No. 507,228, and in Australia March 7, 1930. Renewed October 27, 1933
2 Claims. (Cl. 273—67)



1. A sporting article having a relatively broad striking face formed of strips of wood adhesively secured together at abutting sides disposed at

acute angles to the surface of the face, and a core secured to said face strips and formed of strips of wood adhesively secured together at abutting sides disposed at acute angles in the opposite direction.

1,949,326
OFFICE FURNITURE
Francis O. Peterson, Stillwater, Minn.
Application February 24, 1930. Serial No. 430,987
7 Claims. (Cl. 45—93)



3. A flat top desk including a central section and end sections detachably connected together, the central section being of less height than the end sections and being supported in its entirety by the latter, each of said sections having a top board, the top board of the central section being substantially twice as wide as the top board of each of the end sections and the top boards of the end sections being equal in width, the upper surfaces of the top boards of all of the sections forming a plane unobstructed surface for the top of the desk.

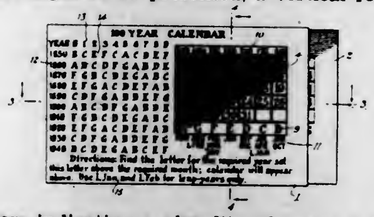
1,949,327
MANICURING INSTRUMENT
Pierre Picard, Neuilly, France
Application November 21, 1932, Serial No. 643,775, and in France November 24, 1931
5 Claims. (Cl. 132—76)



1. A manicuring instrument comprising, in combination, an elongated body internally hollowed to form a chamber for a nail-cleansing liquid, said chamber being open and internally shouldered at one end, a plunger-like stopper located inside the chamber and tightly engageable against its shouldered end, a style fitted in the stopper and exposed to the moistening action of said liquid, the outward tip of said style being utilizable as a nail scraper and holder for a pad of liquid-absorbing material, means for shifting the stopper through the chamber for propelling the style outwardly or inwardly, and a hollow cap engageable over the open end of said body.

1,949,328
CALENDAR
David W. Pinkerton, Eustis, Fla.
Application August 29, 1933. Serial No. 687,354
3 Claims. (Cl. 40—109)

1. A calendar comprising two parts, one part being formed as a container, and the other part being formed as a slide movably positioned in the container, said slide having numbers indicating the days of the month thereon, said numbers being arranged in horizontal and vertical columns, and a key character arranged below each of the vertical columns, said container being open at one end and formed in one face with a window of a size to expose said slide sufficiently to permit a month's sight to be presented, a vertical row of

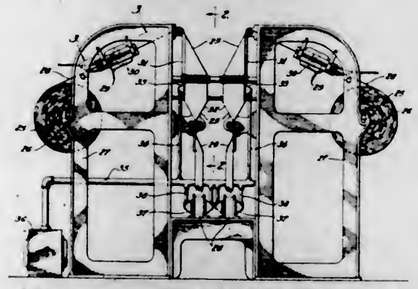


numbers indicating a plurality of years, a horizontal row of key characters opposite each year corresponding to the key characters on the slide, the names of the days of the week arranged in a horizontal line above said window, and legends indicating the months arranged in horizontal rows and vertical rows beneath said window, the vertical rows being seven in number.

1,949,329
MANUFACTURE OF OPTICALLY ACTIVE MENTHOLS
John Read, St. Andrews, and William John Grubb, Anstruther Wester, Scotland
No Drawing. Application February 21, 1933, Serial No. 657,922, and in Great Britain March 4, 1932
10 Claims. (Cl. 260—153)

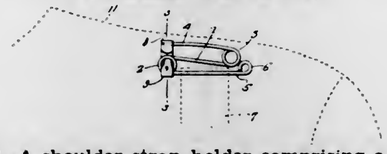
1. A manufacture of an optically active menthol, which comprises converting a mixture of dextro-menthol and lævo-menthol into their esters of an optically active menthoxy-acetic acid, isolating one of the esters by fractional crystallization of the mixture of esters and hydrolyzing the isolated ester under conditions under which the menthoxy-acetic acid liberated during the hydrolysis is not decomposed.

1,949,330
APPARATUS FOR TREATING AND SEASONING PAPER
William Russell Redd, Western Springs, Ill.
Original application December 3, 1931, Serial No. 578,771, now Patent No. 1,850,808, dated March 22, 1932. Divided and this application March 8, 1932. Serial No. 597,615
2 Claims. (Cl. 93—1)



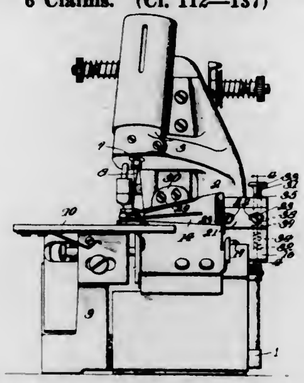
2. A paper converting machine through which a continuous web of paper is adapted to be passed, means for converting the web into individual folded articles, means for subjecting the paper before conversion to a bleaching, sterilizing and deodorizing bath, and means for subjecting the paper to a bleaching, sterilizing and deodorizing bath after conversion into said folded articles.

1,949,331
SHOULDER STRAP HOLDER
Frederick Richardson, Boston, Mass.
Application July 1, 1932, Serial No. 620,495
Renewed July 13, 1933
4 Claims. (Cl. 24—73)



1. A shoulder strap holder comprising a piece of wire, spaced coils within the ends of the wire, one end being directed toward the coil near the other end, a loop on said one end normally engaged with an outward portion of the said coil so as to support and hold a shoulder strap; the other end being sharpened and directed toward the remaining coil, and a hook engageable by the sharpened portion of said other end for holding the same closed, mounting means for the hook threaded through and secured on the remaining coil, said mounting means being so attached to the remaining coil as to be free to move thereon when not engaged by the sharpened end.

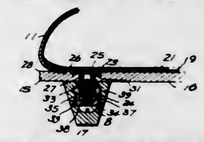
1,949,332
BINDER SUPPORT FOR SEWING MACHINES
George Sauer, Berwyn, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application February 1, 1932. Serial No. 590,277
6 Claims. (Cl. 112—137)



1. In a sewing machine, the combination of a supporting bed, a standard carried thereby, a work support spaced from said standard, a binder for directing a binding strip about the edge of the fabric being stitched, a supporting means carried by said standard to which said binder is attached, said supporting means being mounted on said standard so that said binder may be shifted toward the work support into a set operative position and away from the work support into a set inoperative position, and a latch for securing the binder in said set positions.

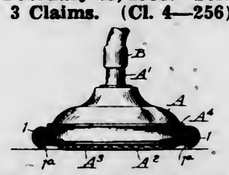
1,949,333
ATTACHING MEANS FOR CLEATS
Aaron A. Saunders, Brockton, Mass.
Application June 14, 1932. Serial No. 617,202
13 Claims. (Cl. 36—59)

1. In a device of the class described comprising hollow and internally threaded anchoring means carried by a shoe and extending outwardly thereof, a cleat having a non-threaded sleeve formed in its base thereof and threaded means



complementary to said threaded means on said shoe centrally located in said sleeve, and providing a space therebetween for the accommodation of said anchoring means.

1,949,334
SPRAY HEAD
Clifford A. Schacht, Huntington, Ind.
Application February 23, 1933. Serial No. 658,183
3 Claims. (Cl. 4—256)



1. In combination with a spray head having an open face and having an outwardly extending annular rib adjacent the open face, a resilient bumper ring of substantially circular cross-section stretched around the head making a tight contact with the rib; the ring having an annular recess in its inner periphery for engagement with the rib for locking the same thereon.

1,949,335
COMBINATION TOOL
Jacob T. Settles, Carnegie, Okla.
Application July 2, 1929. Serial No. 375,386
1 Claim. (Cl. 254—28)

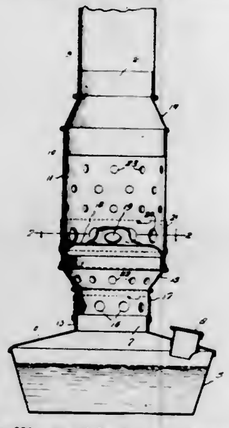


In a tool of the character described, a pair of crossed pivoted levers, enlarged extensions rigid with the pivoted ends of the levers, said extensions being formed with relatively deep opposed V-shaped notches that extend outwardly from the meeting edges thereof and across the entire width of the extensions to form cooperating jaws, said jaws being provided with a single pair of opposed relatively deep V-shaped notches adjacent one side of the tool to provide the jaws with cooperating relatively wide pincher portions at one side and relatively narrow elongated staple-extracting portions at the other side having thin straight contacting edges.

1,949,336
ORCHARD HEATER
Robert S. Shanks, Ontario, Calif.
Application July 15, 1932. Serial No. 622,736
1 Claim. (Cl. 158—91)

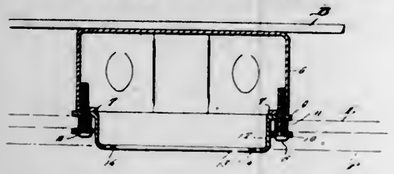
In an orchard heater, a lower stack section consisting of a cylindrical body having reduced necks connected to the ends thereof by tapered

portions, a convex grate carried by and mounted in the lower portion of the body and dividing said section into a mixing chamber below the grate and a combustion chamber above the grate, said body having a circular series of air admission openings above the grate, a revoluble damper



band for controlling said air admission openings, the reduced neck below the grate having a circular series of air admission openings, and a second independently revoluble damper band for controlling said air admission openings of the neck.

1,949,337
JUNCTION BOX
William A. Sharp, San Luis Obispo, Calif.
Application April 6, 1932. Serial No. 603,636
1 Claim. (Cl. 247—22)



In a structural arrangement of the class described, in combination, a junction box having diametrically opposite suspension ears, said ears being formed with screw threaded holes, a main lath ring, a supplemental lath ring, said rings having bolt holes adapted to be brought into registry with the screw threaded holes in said ears, bolts passing through all of said holes, spacing sleeves surrounding the intermediate portions of the bolts to hold the rings in vertically spaced relationship to receive the lath-end, said main ring being provided with a depending annulus extending below the supplemental ring and having an inturned lip provided with apertured fixtures suspension lugs.

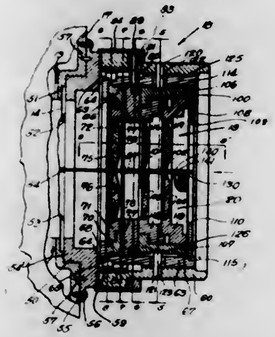
1,949,338
PROCESS OF MAKING HAIR CLOTH
George Taylor, Philadelphia, Pa.
Application May 9, 1931. Serial No. 536,283
8 Claims. (Cl. 28—1)

1. The process for preparing cellulose filament for use in a fabric of the hair cloth type, comprising dampening of the filament in skein, stretching the skein between a pair of relatively spaced supports until dry, to form and set the skein into groups of straight substantially parallel strands interconnected by end portions engaged by said



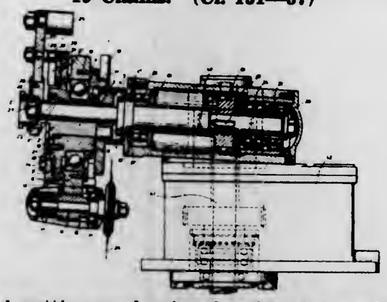
supports, and removing the said end portions, to provide separate rectilinear strands.

1,949,339
DOUBLE LENS SYSTEM
Richard Thomas, Los Angeles, Calif., assignor of one-half to William Jennings Bryan, Jr., Los Angeles, Calif.
Application December 5, 1933. Serial No. 700,982
30 Claims. (Cl. 88—16.4)



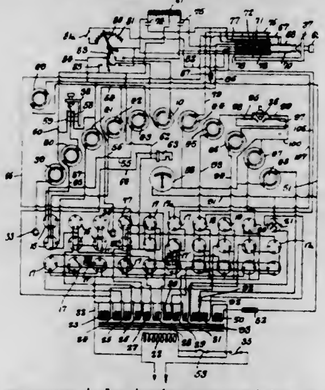
8. In combination: two adjacent lens systems each focused on a given objective field in front thereof and each focused on a given image field to the rear thereof and providing a pair of corresponding framed images, whereby light rays drawn from a given point in said objective field and respectively passing through the optical axes of said two lens systems are spaced from each other in the zone between said lens systems and said image field and intersect said image field in a pair of points spaced from each other a given distance substantially equal to center-to-center spacing of said framed images; septum means extending between said lens systems, focusing means for simultaneously moving both of said lens systems to change the objective field on which said lens systems are focused thereby tending to change the spacing of said light rays in said zone and consequently said given distance at which said points are spaced; and means cooperating with said focusing means and functioning upon a change in the objective field of focus of said lens systems for displacing the optical axes of said lenses to overcome visible parallax, and for maintaining said given distance between said pair of points substantially constant throughout the range of objective fields of focus.

1,949,340
CUTTING APPARATUS FOR CONTINUOUS ROD CIGARETTE MAKING MACHINES
Walter Tögel, Dresden, Germany, assignor to "Universelle" Cigarettenmaschinen - Fabrik, J. C. Muller & Co., Dresden, Germany
Application October 22, 1931, Serial No. 570,448
In Germany July 1, 1931
19 Claims. (Cl. 131—37)



1. A cutting mechanism for cigarette machines comprising a sun gear, a planet gear, a shaft upon which said planet gear is mounted, a cutting element carried by said shaft, said sun gear being eccentrically mounted and means for varying the eccentricity of said sun gear to compensate for wear of said cutting element.

1,949,341
VACUUM TUBE TESTER
Claude E. Urban, Bellevue, Pa., assignor to Casper J. Kauffman, Pittsburgh, Pa.
Application May 10, 1932. Serial No. 610,474
8 Claims. (Cl. 250—27)



1. A vacuum tube tester comprising a plurality of sockets for tubes of different electrical characteristics, plate and filament excitation circuits connected to said sockets, an oscillating circuit connected across the plate and grid circuits of said sockets, a visual indicator consisting of a neon lamp connected in series with the capacity across said oscillating circuit, and means for varying the current flowing through the neon lamp consisting of a variable resistance shunting the neon lamp.

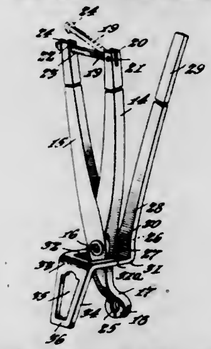
1,949,342
INSERT FOR MASONRY STRUCTURES
Emile Weil, New Orleans, La.
Application September 22, 1932
Serial No. 634,395
17 Claims. (Cl. 72—127)

1. In a masonry structure, the combination with a plurality of building units and an interposed binder; of protective inserts embedded in the binder, said inserts including a diffusible



material having waterproofing properties whereby, upon diffusion of said material, to render the adjacent structure watertight.

1,949,343
APPLYING AND REMOVING TOOL
John Walter Wood, Buffalo Ridge, Va.
Application September 25, 1933
Serial No. 690,923
7 Claims. (Cl. 29—37.1)



1. A tool for applying and removing an element, embodying crossed pivotally joined handle forming levers having element clamping means at their forward ends, a fulcrum arm pivotally mounted on one side of said levers for rocking movement thereon toward and from said levers, and said fulcrum arm forward of its pivotal mounting on said levers offset laterally to extend transversely across said levers and terminating in a forwardly extending portion in operative position disposed on the opposite side of said levers from its pivotal mounting thereon for engaging a fixed structure adjacent the element for removing and applying said element.

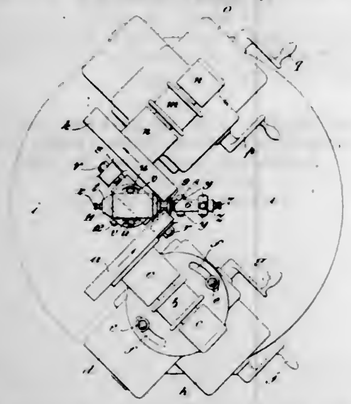
1,949,344
PROCESS FOR THE PREPARATION OF METHYL ETHER
John C. Woodhouse, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 18, 1931
Serial No. 538,259
4 Claims. (Cl. 260—151)

1. A process for the manufacture of methyl ether which comprises catalytically dehydrating methanol in the vapor phase and in the presence of an aluminum phosphate catalyst.

1,949,345
GRINDING OR ABRADING MACHINE
Harry Hales Asbridge, Ashton-on-Mersey, England, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England, a British company
Application February 21, 1933, Serial No. 657,909
In Great Britain March 8, 1932
1 Claim. (Cl. 51—103)

In grinding or abrading machines for the bevelled seating surfaces of mushroom or poppet

type valves, in combination, a grinding wheel operating on its peripheral face, a regulating wheel also operating on its peripheral face, a swivelly adjustable grinding wheel head, a pivotally mounted work carrier adapted in its pivotal movements to traverse the seating surface of the valve being ground across and parallel with the peripheral face of the regulating wheel and towards or away from the peripheral face



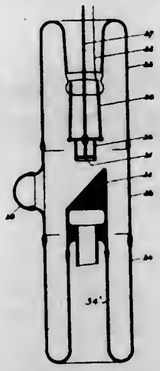
of the grinding wheel, said pivotally mounted work carrier having a part in which the valve is mounted, means for the swivel adjustment of said part, means for pressing the valve in an axial direction whereby it is fed on to the grinding wheel due to the pivotal movement of the work carrier, means limiting such axial movement and means limiting the pivotal movement of the work carrier.

1,949,346
MEANS FOR ATTACHING TOP PIECES TO HEELS
Robert Bain, Collingwood, Victoria, Australia
Application April 19, 1933, Serial No. 666,905
In Australia January 12, 1933
3 Claims. (Cl. 36—36)



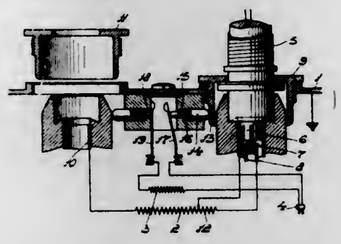
1. In means for attaching a top piece to a heel, a slideway secured in a recess in said heel, a bayonet slot in the wall of said slideway, a threaded socket member slidable within said slideway, resilient means adapted to resist the outward movement of said socket member, a stop pin projecting from said socket member and adapted to move in said bayonet slot, a shoulder in said bayonet slot adapted to be engaged by said stop pin when said socket member is drawn out against the action of said resilient means and given a partial turn, a threaded connecting member fitted to said top piece and adapted to engage said threaded socket member, locking pins connected to said top piece and adapted to pass into the material of the heel when said threaded connecting member has been driven home and said socket member turned to release said stop pin from said shoulder.

1,949,347
ELECTRIC DISCHARGE TUBE
Albert Bouwers, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application January 27, 1925, Serial No. 5,108
In the Netherlands, June 4, 1924
11 Claims. (Cl. 250—35)



4. An electric discharge tube having cathode and anode members between which during the operation of the tube a high potential difference occurs, and a wall which mechanically connects said members, the said wall consisting of end parts of insulating material substantially similar in extent and alternated by at least one part of conductive material, said part of conductive material during operation of the tube assuming a potential that is substantially midway between the potentials of the two mechanically connected members of the tube.

1,949,348
ELECTRIC INSTALLATION
Albert Bouwers, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a limited-liability company of the Netherlands
Application September 4, 1928, Serial No. 303,933
In the Netherlands February 25, 1928
10 Claims. (Cl. 250—34)



7. An installation comprising a transforming device, a primary and a secondary therefor, said primary being normally open, means for closing said primary, means for conducting electrical current from said secondary, and means for detachably securing said last-mentioned means to said secondary, said third-mentioned means, upon secural of said second-mentioned means, causing the actuation of said first-mentioned means for closing the primary.

1,949,349
SEWING MACHINE NEEDLE
Edmund Karl Brown, Torrington, Conn., assignor to The Torrington Company, Torrington, Conn., a corporation of Connecticut
Application January 12, 1933. Serial No. 651,435
2 Claims. (Cl. 112—222)



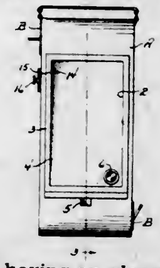
1. A sewing machine needle having a body, with diametrically opposite thread grooves at the eye, said eye connecting said grooves, said body being substantially symmetrical with respect to a plane through said grooves, said body also including a blade of oblong cross-section with at least one said thread groove extending along the same, the diameters of the blade along diagonals of said cross-section being greater than the diameter at right angles to said plane whereby to increase the radius of gyration in said plane, the chordal dimension at either edge of said groove parallel to said plane being substantially equal to the diameter at right angles to said plane.

1,949,350
METHOD OF MAKING SEWING MACHINE NEEDLES
Edmund K. Brown, Torrington, Conn., assignor to The Torrington Company, Torrington, Conn., a corporation of Connecticut
Original application January 12, 1933, Serial No. 651,435. Divided and this application October 12, 1933. Serial No. 693,385
4 Claims. (Cl. 163—1.5)



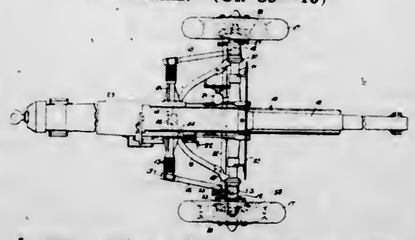
1. The method of making a sewing machine needle which includes the successive steps of forming a needle body wire having an oblong cross section, thereafter forming diametrically opposite thread grooves in said body wire along the major axis plane thereof while maintaining the cross-sectional shape of the body wire substantially unchanged, and then forming an eye in the web constituting the bottoms of said grooves.

1,949,351
CAMERA
Joseph Buholzer, Nueva Gerona, Isla de Pinos, Cuba, assignor of one-fifth to Paul John Huttenlocher, Nueva Gerona, Isla de Pinos, Cuba
Application January 22, 1930. Serial No. 422,637
1 Claim. (Cl. 95—32)



A film camera having an elongated opening in the rear wall of substantially the same size as the picture taken by the camera, opposed side and end flanges projecting outwardly from the rear wall and defining a slide receiving frame bounding said opening, one of said end walls having a slot, the remaining flanges having grooves, a slide received by said slot and grooves for normally closing said opening, a film carrying backing strip in the camera having a transparent portion serving as a ground glass when the transparent portion is arranged opposite said opening and with said slide opened, means whereby the backing strip can be adjusted, and said slide having a window adjacent one corner thereof.

1,949,352
GUN CARRIAGE
Adolph P. Buquor, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a corporation of Delaware
Application December 17, 1932
Serial No. 647,822
20 Claims. (Cl. 89—40)

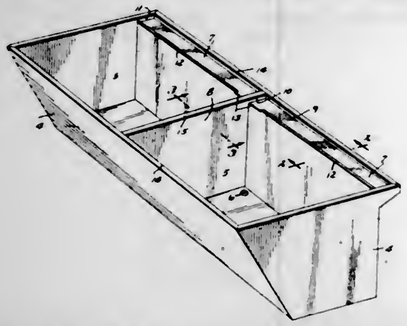


1. A gun carriage of the character described adapted to support a gun and gun trail, comprising an axle upon which the gun is adapted to slide in traversing the gun, depending members journaled upon opposite ends of the gun axle, wheel axles carried by said depending members and adapted to receive interchangeable wheels, a device connected to the depending members for maintaining the wheel axles below the gun axle, said device including a shaft upon which the gun trail is slidably mounted, and means to maintain said shaft stationary with respect to the gun axle.

1,949,353
LAUNDRY TUB AND SOAP TRAY
Olof S. Burman, Minneapolis, Minn.
Application January 30, 1933. Serial No. 654,172
3 Claims. (Cl. 68—31)

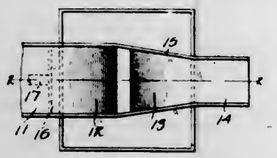
1. A monolithic laundry tub having a downwardly and rearwardly inclined front wall, an

approximately vertical rear wall and vertical end walls, said tub having an integral, longitudinally dished tray portion extending substantially the length of said tub and projecting outwardly from the upper portion of said rear wall, the under



surface of said tray portion projecting upwardly and outwardly from said rear wall to support and strengthen said portion and leaving a clear space under said portion along the major extent of said rear wall, said tray portion having a drain passage for delivery into said tub.

1,949,354
GRAVEL WASHING MACHINE
Edgehill T. Burnside, Shelbyville, Ind.
Application March 6, 1933. Serial No. 659,881
4 Claims. (Cl. 209—158)



2. A gravel cleaning machine comprising a tank, a conveyor comprising a series of scoops movable through the tank to carry the clean gravel out of the tank, a gravel inlet chute at one side of the tank, a curved inlet plate continuous with the bottom of said inlet chute extending down into the tank, a water inlet chamber positioned on the wall of the tank at the outside of the tank and beneath said inlet chute, the wall of the tank having a longitudinal slit for delivering water from said chamber into the tank, an upwardly extending water guide having one end positioned about said slit and its other end adjacent the lower end of said curved inlet plate, an outlet guide for the material washed out of said gravel, said outlet guide having converging side walls to impart added velocity to the outgoing water and material washed from the gravel, substantially as set forth.

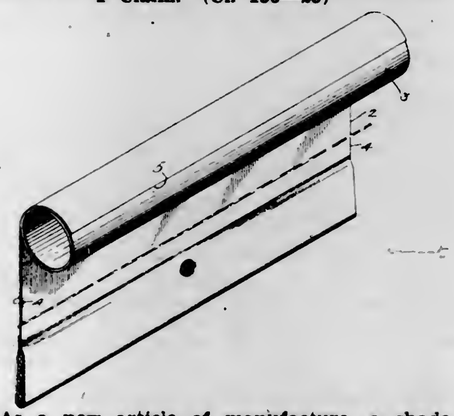
1,949,355
MOISTURE CUP HEAT CONTROL APPARATUS FOR CREAMERIES
Andrew F. Cline, Hayward, Wis.
Application May 3, 1932. Serial No. 608,973
3 Claims. (Cl. 23—258)

1. An apparatus of the character described comprising a casing having an opening to permit a test cup to be positioned within said casing, a closure carried by the casing for closing the test cup, a temperature determining means carried by the closure and extending into the cup, and means in said casing for forcing air



therethrough and about the cup to cool the cup to a desired temperature.

1,949,356
ROLL SHADE
Henry Hill Collins, Philadelphia, Pa., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 5, 1932. Serial No. 641,432
1 Claim. (Cl. 156—25)

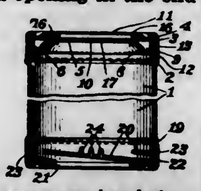


As a new article of manufacture, a shade adapted for attachment to a roller and having at one end a substantially rigid cylinder of a size adapted to neatly embrace the roller.

1,949,357
DREDGING CONTAINER
Jack M. Cross, New York, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application March 28, 1933. Serial No. 663,209
3 Claims. (Cl. 221—61)

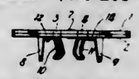
1. A container including in combination a body portion, an end member permanently attached thereto and having a depression therein forming a vertical peripheral wall extending into the body portion of the container, said end member having a central raised portion spaced from the vertical wall so as to provide an annular recess or pocket, said end member having a central dredging opening therethrough, a cover having a depending skirt removably connected to said container body,

said cover having a central imperforate portion directly opposed to the opening in the end member, and dredging openings located out of alinement with said opening in the end member, said



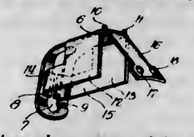
openings and cover member being disposed relative to the end member so as to restrain free flow of the contents of the container, except when said container is shaken.

1,949,358
SOCKET
Newton C. Schellenger, Elkhart, Ind., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Delaware
Application February 23, 1929. Serial No. 341,945
8 Claims. (Cl. 173—328)



7. In an electrical socket, in combination a base containing a plurality of perforations, a contact spring secured to said base adjacent each of said perforations and extending from said base in a position to engage a prong extending through that perforation corresponding to the spring, each of said springs having a slot extending entirely through the spring and formed with a closed periphery and having longitudinally extending substantially parallel edges of the slot per se disposed to bear upon non-diametrically spaced portions of the circumference of the prong extending in the general direction of the axis of the prong to make substantially line contact with said prong.

1,949,359
SOCKET
George Pearson, Crystal Lake, Ill., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana
Application March 23, 1931. Serial No. 524,428
8 Claims. (Cl. 173—328)



1. A contact spring, comprising a base portion for attachment to a support, a slotted free portion providing a pair of substantially parallel contact edges, backing means comprising two wings rising from said base portion and extending edgewise towards said free portion, the ends of said wings being curved toward each other and disposed in back of said slotted portion to reinforce the pressure which said edges may exert upon a cooperating contact stud.

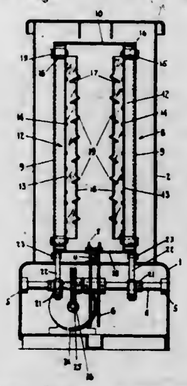
8. Contact making means, comprising a substantially cylindrical stud, guide means for positioning said stud, resilient contact means for engaging the surface of said stud in a line substantially parallel to the axis of said stud, said contact means being disposed in the path of said stud and deflected thereby angularly to the axis of the stud upon positioning of said stud, and yielding reinforcing means for said contact means adapted to be engaged thereby and deflected substantially transversally to the axis of said stud, said reinforcing means comprising two resilient spring means cooperating with each other and with said contact means for applying progressively increasing reinforcing pressure to the back of said contact means.

1,949,360
METHOD FOR MAKING ARTIFICIAL ZEOLITES
Arlie W. Schorger, Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a corporation of Delaware
No Drawing. Application December 29, 1928
Serial No. 329,304
41 Claims. (Cl. 23—113)

2. The method of forming particles of base-exchanging compound which comprises forming an aqueous gel of said compound, and then freezing said aqueous gel.

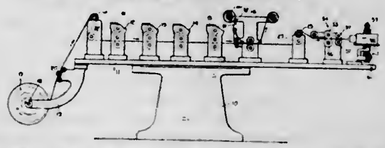
26. As a new article of manufacture, a base-exchanging compound which has been produced from the frozen aqueous gel of said compound.

1,949,361
TOASTER DEVICE
Alden B. Starr, Brooklyn, N. Y., assignor to Knapp-Monarch Company, a corporation of Missouri
Application February 12, 1930. Serial No. 427,739
15 Claims. (Cl. 219—19)



1. In a toaster device, a conveyor chain, a chamber through which the chain is moved, a pair of heat producing elements mounted in the chamber, and vibrating guide members mounted in said chamber between said heat producing elements.

1,949,362
PROCESS AND MACHINE FOR IMPRESSING AND EMBOSSING COVERING MATERIAL
Arthur M. Wickwire, Jr., Nutley, N. J., assignor to Peerless Roll Leaf Co., Inc., Union City, N. J., a corporation of New York
Application July 31, 1930. Serial No. 471,931
6 Claims. (Cl. 41—7)



1. The combination of a plurality of continuously operatively effective impression units dis-

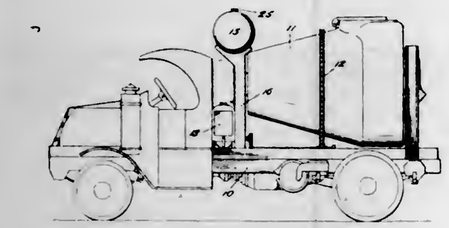
posed in successive relation, said impression units including a unit for embossing with metallic medium by the use of heat-releasing strip material embodying a metallic medium, said embossing unit further including a continuously operatively effective rotary cylinder for carrying suitable die or dies and a continuously operatively effective impression cylinder adapted to carry suitable make-ready material in intaglio of the relief of said die or dies, heating means for said rotary cylinder, continuously operatively effective re-winding means for said strip material, frictional drive means for said re-winding means, slack-effecting means for said strip material, said slack-effecting means exerting a force on the strip material in excess of the force of said friction driving means, and means for supplying web material to and through said plurality of said impression units.

1,949,363
RAILWAY TIE PLATE
George T. Willard, Chicago, Ill., assignor to E. H. Bell, Chicago, Ill.
Application January 15, 1932. Serial No. 586,762
5 Claims. (Cl. 238—298)



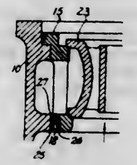
1. A tie plate having a rail bearing surface and a transversely extending rail abutting shoulder on its top, the plate being flat beneath the edges of the rail seat and recessed intermediate said flat surfaces and at the ends of the plate, inclined surfaces connecting said flat surfaces with the median and end recessed portions, a plurality of intersecting ribs depending from said bottom surface, said ribs being of varying depths and widths and terminating in one horizontal plane.

1,949,364
APPARATUS FOR SUPPLYING WATER TO CONCRETE MIXERS
Charles F. Ball, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 18, 1930. Serial No. 421,783
1 Claim. (Cl. 83—73)



In a water supply apparatus for concrete mixers, a receptacle provided with a partition wall dividing it into two compartments, one of which is adapted to receive and hold a predetermined fixed quantity of wash water; means comprising an adjustable overflow pipe and a gauge rod associated with the other compartment for varying at will the quantity of water contained therein; a common discharge pipe leading from said compartments to the mixer drum; and a valve in said pipe adjacent each compartment, whereby said compartments may be discharged simultaneously or separately as desired.

1,949,365
VALVE
Arthur Baur, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland
Application August 17, 1928, Serial No. 300,305
In Germany August 19, 1927
3 Claims. (Cl. 251—167)



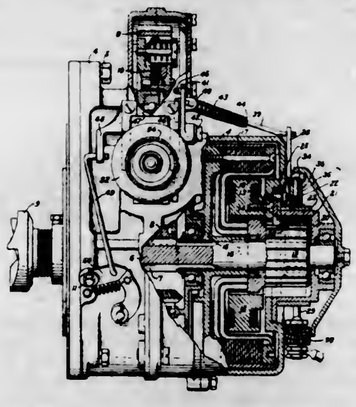
2. A double seat valve comprising a casing, a double valve seat member within said casing, said valve seat member being formed and arranged to form a groove with said casing, a single valve member contacting with said valve seat member, and a compressible substantially U-shaped ring arranged in the groove for sealing said valve seat member in fluid-tight relation against said casing, said ring having thickened edges for contacting with the adjacent surfaces of said valve seat member and said casing.

1,949,366
PREPARATION OF DIALKYL SULPHATES
Thomas F. Carruthers, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application June 25, 1932
Serial No. 619,276
9 Claims. (Cl. 260—98)

1. Process of preparing dialkyl sulphates from gaseous olefines which comprises the steps of absorbing the olefine in concentrated sulphuric acid which contains appreciable amounts of carbonaceous impurities, adding to the acid liquor so formed water and at least one liquid solvent for dialkyl sulphate which is substantially immiscible with water, and recovering the dialkyl sulphate thereby separated.

1,949,367
ELECTRICAL MECHANISM
Roland Chilton, Ridgewood, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Original application October 18, 1929, Serial No. 400,704. Divided and this application December 16, 1932. Serial No. 647,673
8 Claims. (Cl. 172—36)

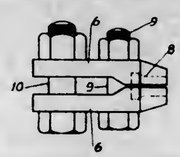
1. In combination, an electric motor having a commutator, a supporting member mounted for rotative adjustment around the axis of said commutator, a plurality of arms mounted on said supporting member, brushes carried by said arms normally out of engagement with said commutator, and means for flexing said arms to displace



said brushes into engagement with said commutator.

1,949,368
PULL ROD CONNECTION
Rufus A. Colgin, Tulsa, Okla., assignor to W. C. Norris, Tulsa, Okla.
Application August 31, 1933. Serial No. 687,637
1 Claim. (Cl. 24—123)

A clamp coupling comprising a pair of clamp

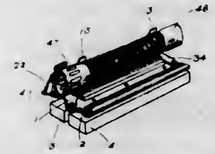


members each of which has a recess at one end thereof adapted to receive a pull rod head when the two members are clamped together and each of which also has an offset portion to the end wherein said recess is located, to the effect that when placed together the pair of clamp members form a whole structure wherein one end is bifurcated and the other end contains a socket for a pull rod head, a bolt hole in the offset portion of each of said clamp members and positioned therein to align each with the other when said separate clamp members are arranged in pairs, and a second bolt hole in each of said clamp members and positioned therein intermediary of said first mentioned bolt hole and said recess and to align each with the other when said separate clamp members are arranged in pairs, and bolts for said clamp members adapted to be passed thru the respective bolt holes aforesaid.

1,949,369
PREPARATION OF DIALKYL SULPHATES
Henry L. Cox, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application June 25, 1932
Serial No. 619,275
9 Claims. (Cl. 260—98)

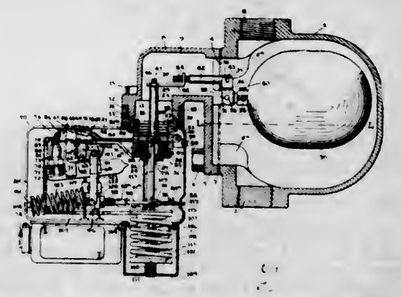
1. Process for preparing dialkyl sulphates from gaseous olefines which comprises the steps of absorbing the olefine in concentrated sulphuric acid which contains appreciable amounts of carbonaceous impurities, adding to the acid liquor so formed a solvent liquid comprising at least one volatile oxygen-containing solvent, removing the flocculated carbonaceous impurities, removing from the acid liquor said solvent, separating dialkyl sulphate as an immiscible layer from said liquor, and removing the separated dialkyl sulphate.

1,949,370
APPARATUS FOR HAIR WAVING
George Decker, Cleveland, Ohio, assignor to The Philad Company, Cleveland, Ohio, a corporation of Ohio
Application March 15, 1929. Serial No. 347,324
12 Claims. (Cl. 132—33)



1. In combination, a clamp engaging a strand of hair near its roots, a resilient pawl slidably carried thereby, and a curler rod having an elongated ratchet cooperating with said pawl.

1,949,371
CONTROL DEVICE
Earnest J. Dillman, Detroit, Mich., assignor to American Radiator Company, New York, N. Y., a corporation of New Jersey
Application April 11, 1928. Serial No. 269,282
19 Claims. (Cl. 200—84)

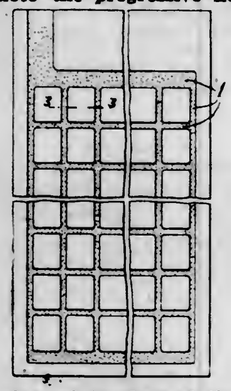


1. In a device of the character described, rockable means, a pair of members for rocking and supporting said means and connected thereto, and stop means holding each of said members against movement in one direction, whereby each of said members serves as a rigid support for said means when said means is rocked by the other of said members.

1,949,372
MAKING LEAD ALLOY CASTINGS
Ernest Graf, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application February 29, 1932. Serial No. 595,966
1 Claim. (Cl. 22—136)

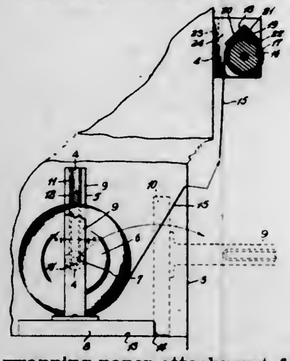
For making intricate lead alloy castings, an operatively stationary mold of ferrous metal having internal intersecting channels provided with metal faces presenting perceptibily roughened

metal surfaces for contact with the pour and which promote the progressive flow of molten



alloy from channel to channel throughout the mold to completely fill the same.

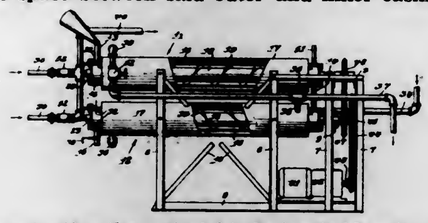
1,949,373
WRAPPING PAPER ATTACHMENT FOR SHOW CASES
Clement V. Hill, Trenton, N. J., assignor to C. V. Hill & Co., Inc., Trenton, N. J., a corporation of New Jersey
Application December 7, 1932. Serial No. 646,185
14 Claims. (Cl. 242—55.5)



1. In a wrapping paper attachment for counters and the like including means for supporting a paper supply roll in such manner as to permit the paper in strip form to be drawn therefrom, a brake device mounted on the support and bearing on the roll, and a supporting and guiding means for the free end of the drawn out strip comprising a roll, and a weighted member resting by gravity on the supporting and guide roll and having a brake surface and a cutting surface.

1,949,374
HEAT TRANSFER APPARATUS FOR SEMISOLID PRODUCTS
Alex Johnson, Minneapolis, Minn., assignor to Land O' Lakes Creameries, Inc., Minneapolis, Minn., a corporation of Minnesota
Application May 17, 1933. Serial No. 671,500
3 Claims. (Cl. 257—86)

2. In a machine of the class described, outer and inner cylindrical casings having an attenuated, cylindrical space between them for the product to be treated, end caps on said outer casing formed with journal bearings for said inner casing, coaxial members projecting from said inner casing and revolubly fitting in said bearings, one of said members being a solid drive shaft, an inlet and an outlet for the product to be treated communicating with said space, means for applying a heating or cooling medium to the outer surface of said outer casing, a screw conveyor mounted in the space between said outer and inner casings



for actuating the material to be treated longitudinally of said space and power-driven means for rotating said conveyor said means having a freely removable connection with said drive shaft and one of said end caps and said inner casing, shaft and conveyor being readily removable from said power-driven means and outer casing for cleaning.

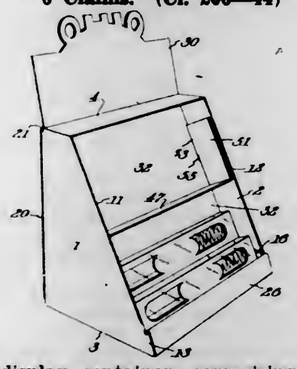
1,949,375
PREPARATION OF LYSED BACTERIAL PROTEINS FOR TOPICAL APPLICATION
Frank G. Jones, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application January 12, 1931
Serial No. 508,377
6 Claims. (Cl. 167—63)

1. A composition of matter, comprising lysed bacterial proteins mixed with a germicide comprising a water-soluble salt of a compound of mercury of the following general formula

$$R—Hg—S—R_{Ac}$$

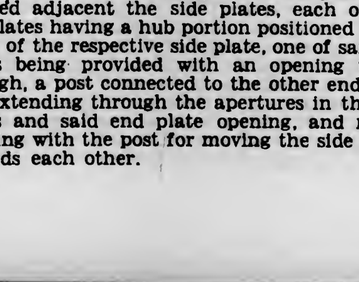
in which R is an aromatic or aliphatic group, R_{Ac} is an organic radicle containing an acid group having a replaceable hydrogen ion, the Hg and the S atoms being bonded to carbon atoms of the R group and R_{Ac} group respectively.

1,949,376
DISPLAY CONTAINER
Norman F. Mansfield, Hasbrouck Heights, N. J., and George S. Gottesman, New York, N. Y., assignors to The Ohio Match Company, Wadsworth, Ohio, a corporation of Ohio
Application November 30, 1932
Serial No. 645,092
6 Claims. (Cl. 206—44)



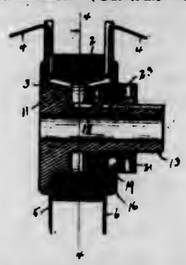
1. A display container, comprising a casing having sides, a bottom, a top, a back and an open front, means providing a front-spanning member adjacent to said bottom, and a goods-supporting member assembled within said casing and comprising as integral parts thereof means in engagement with said top and back, and means engaging said front-spanning member, said goods-supporting member thus retained in predetermined position within said casing.

1,949,377
BOTTLE CAPPING MACHINE
Alexander Meldrum, Syracuse, N. Y., assignor, by mesne assignments, to Smith Hood & Seal Corporation, Syracuse, N. Y., a corporation of New York
Application July 27, 1929, Serial No. 381,611
Renewed February 16, 1933
39 Claims. (Cl. 226—83)



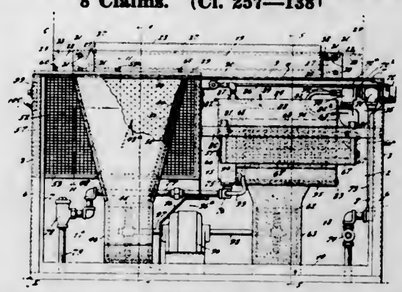
10. In a machine of the class described, mechanism for placing a paper disk over the mouth of a bottle with the edge portion of the disk extending outwardly from the bottle, mechanism for folding the projecting portion of the disk into a plurality of substantially radial plaits surrounding the neck of the bottle and additional mechanism for stapling the plaits to the body of the disk.

1,949,378
WIRE SPOOL HOLDER
John G. Rochm, Oneida, N. Y., assignor, by mesne assignments, to Smith Hood & Seal Corporation, Syracuse, N. Y., a corporation of New York
Application May 18, 1931. Serial No. 538,365
7 Claims. (Cl. 242—124)



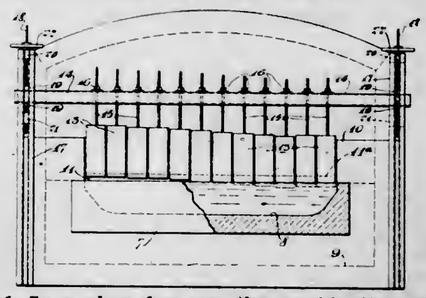
5. A wire spool holder comprising opposed apertured side plates, each having a centrally positioned inwardly extending tapered collar adapted to enter the core of a wire spool for engaging the inner wall thereof, a pair of end plates positioned adjacent the side plates, each of said end plates having a hub portion positioned in the collar of the respective side plate, one of said end plates being provided with an opening therethrough, a post connected to the other end plate and extending through the apertures in the side plates and said end plate opening, and means coacting with the post for moving the side plates towards each other.

1,949,379
VENTILATING AND AIR TREATING APPARATUS
Allston Sargent, Bronxville, N. Y., assignor to Campbell Metal Window Corporation, New York, N. Y., a corporation of Maryland
Application May 10, 1932. Serial No. 610,351
8 Claims. (Cl. 257—138)



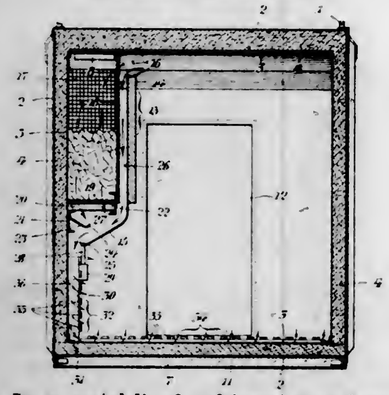
2. An apparatus of the character described comprising an enclosing casing to be located in a chamber to be ventilated, said casing containing a fresh air compartment, and an air-treating compartment, said fresh air compartment having air inlet means to receive fresh air from outside the chamber and having a fresh air outlet into the chamber, air-impelling means in said fresh air compartment to draw air in said inlet and including a delivery duct through which the fresh air is expelled through said outlet, means for filtering the air entering said fresh air compartment, sound absorbing surfaces in said compartment, said air-treating compartment having an air inlet and an air outlet to communicate with the chamber, air-treating means and air-impelling means in said last-named compartment, said impelling means operating to draw air from the chamber into the air-treating compartment to be treated therein, and return the treated air through said outlet to the chamber.

1,949,380
GLASS FURNACE
Leonard D. Soubier, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 5, 1929. Serial No. 404,885
15 Claims. (Cl. 49—56)



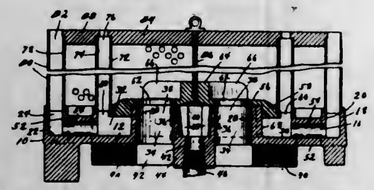
1. In a glass furnace, the combination of a main furnace compartment and a forehearth extension, said furnace comprising a wall having an opening therethrough providing communication between the main furnace and the forehearth, an auxiliary wall or curtain extending downward over and partly closing said opening and comprising a plurality of sections, and means for individually adjusting said sections.

1,949,381
RAILWAY REFRIGERATOR CONTAINER
Lewis M. Showers, Jr., and Isaac M. Chambers, Juniata, Pa., assignors to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 10, 1932. Serial No. 636,980
3 Claims. (Cl. 62—51)



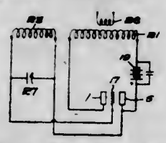
1. In a metal-lined refrigerator-enclosure, a screen element defining with portions of the inner lining a rectangular ice basket extending downwardly from the top of said enclosure to a distance above the floor, a bulkhead extending across the enclosure in front of the ice basket and spaced from the top of the enclosure, said bulkhead being inwardly sheathed with metal to provide an outward and downwardly-deflected tray below the bottom of the ice basket terminating in a drain trough, in combination with a subjacent perforate means extending upwardly from the enclosure floor into proximate relation with the deflected tray and effective to diffuse cooled air across the enclosure lading space.

1,949,382
OIL BURNER
William Edward Taft, Athol, Mass., assignor to Taft Oil Burner Company, Athol, Mass., a corporation of Massachusetts
Application May 31, 1930. Serial No. 457,855
2 Claims. (Cl. 158—87)



1. A liquid fuel burner comprising a base having upstanding walls providing an outer narrow open top vapor channel and an inner wide open top vaporizing channel with an annular air passage between said channels, said base also having means providing a central fuel inlet surrounded by said wide inner channel and open top fuel ducts which extend from said inlet to said wide inner channel and air passages through said base between said fuel ducts, a removable cap seated on said base above said ducts and air passages and constituting a closure for the open tops of said ducts and itself having air passages which register with and form continuations of the air passages of said base, said cap having a rim that is extended over said wide channel and is terminated close to and is closely spaced from the outer wall of said wide channel to provide a narrow annular opening therefor, outer and inner closely spaced combustion tubes carried respectively by said base and said rim and surrounding and upstanding above said opening, other outer and inner combustion tubes carried by said base and surrounding and upstanding above the open top of said outer vapor channel, and fuel ducts providing communication between said outer and inner channels.

1,949,383
ELECTRONIC DEVICE
Harold C. Weber, Milton, Mass., assignor to Industrial Development Corporation, Salem, Mass., a corporation of Maine
Application February 13, 1930. Serial No. 428,038
8 Claims. (Cl. 250—31)

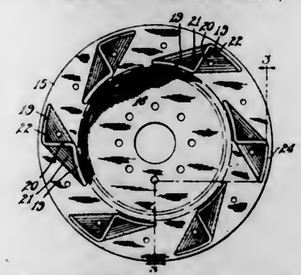


1. A device of the character described having, in combination, bodies of different specific conductivity positioned with surfaces in such close proximity as to permit electron flow from the body of higher specific conductivity to the body of lower specific conductivity and means substantially between the opposed surfaces of said bodies for impressing electrical charges on the electron field in the space between said surfaces.

1,949,384
METHOD OF MAKING SUEDE LEATHER HAVING A HIGH POLISH, AND SUEDE LEATHER OF THIS TYPE
Meyer Weyner, Brooklyn, N. Y.
No Drawing. Application July 28, 1933
Serial No. 682,671
5 Claims. (Cl. 149—6)

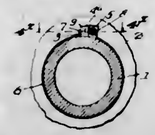
5. Suede leather having less than one per cent of fat liquor contained therein and having a wax polish upon the nap thereof.

1,949,385
CLUTCH DEVICE
James M. Fadely, Muncie, Ind., assignor to Warner Gear Company, Muncie, Ind., a corporation of Indiana
Application June 27, 1932. Serial No. 619,441
7 Claims. (Cl. 192—107)



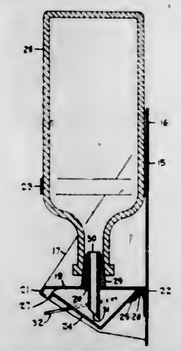
1. A clutch disc having a plurality of circumferentially spaced pairs of V shaped ears formed therein the apexes of the ears facing in opposite directions and lying side by side, said ears being bent outwardly from the normal plane of the engaging portion of the disc, and an annular facing of friction material secured to at least one of each pair of said outwardly bent ears.

1,949,386
DISK MOUNTING FOR FURNACE CONVEYER SHAFTS
Frank A. Fahrenwald, Chicago, Ill.
Original application December 10, 1930, Serial No. 501,257. Divided and this application September 21, 1931. Serial No. 564,117
2 Claims. (Cl. 263—6)



1. A furnace conveyer comprising a shaft with a raised key and a work-supporting element having a shaft-receiving opening, a key-receiving opening extending radially from said shaft-receiving opening, and a key-fitting opening extending circumferentially of the element from said key-receiving opening; said key having projections spaced longitudinally of the shaft; and said key-fitting opening having one of its confines in position to enter between said projections and thereby fix the element against longitudinal displacement on the shaft.

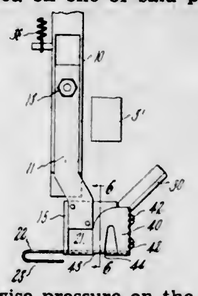
1,949,387
FLUID DISPENSER
Sydney Hardcastle, Montreal, Quebec, Canada
Application July 29, 1932, Serial No. 625,829
In Canada December 4, 1931
5 Claims. (Cl. 221—94)



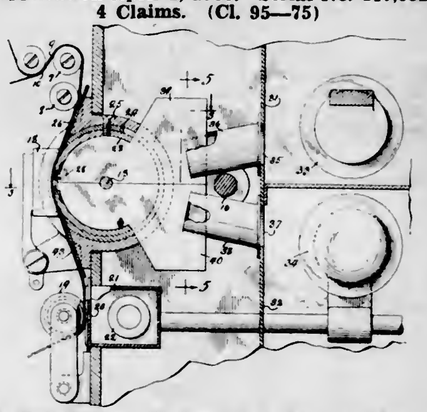
1. A fluid dispenser comprising a bracket forming a vessel holder and having a passage therefrom for the liquid from the vessel, said bracket having means for suspension centrally located on the back above the centre of gravity, a cup closing up to said bracket and communicating with said passage.

1,949,388
HOLDER AND CARRIER FOR RIVETING MACHINES
Arthur R. Havener, Wayland, Mass., assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass., a corporation of Massachusetts
Application May 13, 1933. Serial No. 670,877
14 Claims. (Cl. 1—3)

1. A holder and carrier for a riveting machine having, in combination, a slide, a pair of oppositely disposed spring arms fast to said slide and spaced apart, a pair of oppositely disposed plates fast to the lower ends of said arms, the under faces of said plates being provided with grooves, forming a guideway adapted to receive and hold a flat piece of material and a resilient member mounted on one of said plates for exerting an edgewise pressure on the material inserted in said guideway.



1,949,389
PRINTING MECHANISM
Eugene Laroche, New York, N. Y., assignor to Paramount Publix Corporation, New York, N. Y., a corporation of New York
Application April 1, 1930. Serial No. 440,681
4 Claims. (Cl. 95—75)

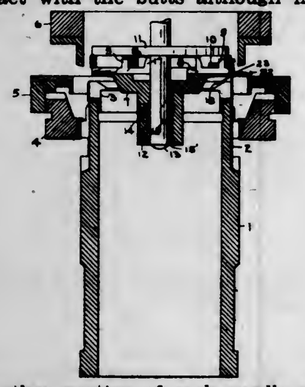


1. Printing mechanism for the printing of sound and action films, comprising in combination of a cylindrical structure provided in one wall with light apertures for the simultaneous printing of action and accompanying sound, means for advancing a negative sound and action film and an unexposed film over said cylindrical structure across said apertures, an opaque partition disposed transversely of said cylindrical structure and extending across the same to said apertures, two light boxes, a light tube for each box intersected by said partition, a light source for each light box, and a partition in each light tube, said partitions being on opposite sides of the first mentioned partition, said partitions confining the light rays to their proper path, so that the light rays from one source wholly will be confined to the sound aperture and the light rays from the other source will be confined to the action aperture.

1,949,390
DIAL KNITTING MACHINE
Robert H. Lawson, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application July 24, 1931. Serial No. 552,955
5 Claims. (Cl. 66—19)

5. In a knitting machine, a slotted needle dial having needles independently mounted therein,

such needles having butts, a dial cap in position to actuate the needles, a hardened surface out of contact with the butts although in contact



with another portion of each needle and associated with the dial cap and maintained substantially fixed, whereby the dial needles are held in position within their slots in the dial.

1,949,391

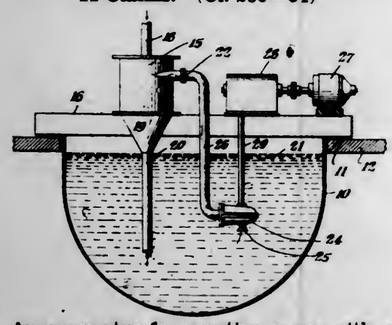
DEZINCING MACHINE

Karl Arden Lindner, Perth Amboy, N. J., assignor to American Smelting & Refining Company, New York, N. Y., a corporation of New Jersey

Application August 22, 1930, Serial No. 476,971

Renewed June 28, 1933

11 Claims. (Cl. 266—34)



2. An apparatus for reacting a gas with a liquid comprising a cylindrical reaction chamber adapted to receive the gaseous reagent, a tangential inlet pipe associated therewith, means for applying liquid to said chamber through said inlet pipe so that the liquid is caused to whirl in said chamber and present a large surface to the action of the gas, said reaction chamber having a conical bottom terminating in a discharge pipe, said bottom permitting the chamber to be swept free from reaction products, whereby clogging of the apparatus is prevented.

1,949,392

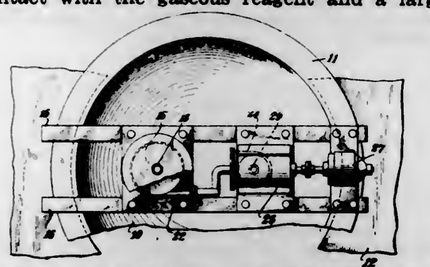
PROCESS FOR REACTING GASES WITH LIQUIDS

Karl A. Lindner, Roselle Park, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey

Original application August 22, 1930, Serial No. 476,971. Divided and this application July 30, 1932. Serial No. 626,601

8 Claims. (Cl. 75—15)

1. The process of applying a gaseous reagent to a liquid in a reaction chamber which comprises tangentially introducing the liquid into said chamber thereby causing the liquid to spread out over the walls of said chamber and form a substantially continuous lining thereover whereby the walls of the chamber are shielded from contact with the gaseous reagent and a large



surface area of said liquid is presented to said reagent, introducing the gaseous reagent into said chamber in controlled quantities whereby an appreciable excess of said reagent is avoided, and continuously withdrawing the liquid together with the products of reaction from said chamber.

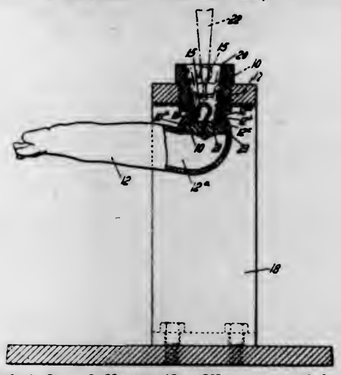
1,949,393

DOLL JOINT

Melvin S. Lower, Wadsworth, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio

Application April 8, 1933. Serial No. 665,078

2 Claims. (Cl. 46—40)



1. A joint for dolls or the like comprising cooperating apertured hollow doll parts, one of said parts having an opening therein with an inwardly extending flange, a flexible elastic rubber disc inserted in said one doll part and having an outwardly projecting flange for engaging with said inwardly extending flange, and an attaching element swiveled on said disc and having means thereon adapted to be engaged to secure said one doll part to said other doll part, said disc being adhesively bonded to said one doll part.

1,949,394

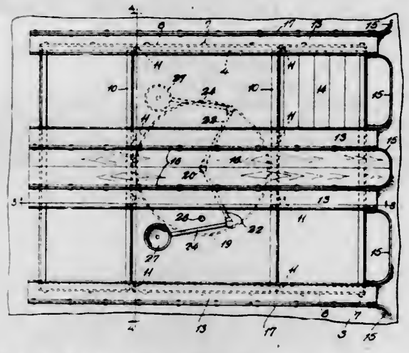
AUTOMOBILE PIT

Thomas Martin, New York, N. Y., assignor of one-half to R. W. Marshall Company, Inc., New York, N. Y., a corporation of New York

Original application January 19, 1927, Serial No. 162,099. Divided and this application February 11, 1928. Serial No. 253,599

2 Claims. (Cl. 184—1.5)

1. An automobile pit casing comprising a casing, a plurality of trackways extending across said casing, the outer trackways extending beyond opposite sides of the casing, and removable sides carried by said casing and forming means



whereby additional casings may be attached thereto.

1,949,395

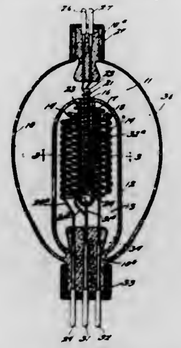
RADIOTUBE

Harry P. Pratt, Chicago, Ill., assignor to William Frederick Grower, Henry Asa Allen, George Squires Herrington, and Howard Thompson Ballard, trustees, acting with said Harry P. Pratt as cotrustees of Pratt Radio Trust

Application November 23, 1928, Serial No. 321,347

Renewed May 3, 1933

2 Claims. (Cl. 250—27.5)



1. A radio tube including in combination a chamber with the usual radio elements therein, a heating coil disposed in a position to impart heat to the radio element but arranged out of connection with the element containing chamber, and an outer chamber evacuated to form a heat insulator for the element containing chamber said heating element lying within said usual radio elements and located within said outer chamber, said outer chamber having a portion extending within the inner chamber.

1,949,396

VACUUM TUBE DEVICE

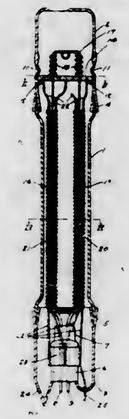
Wallace G. Wade, Lancaster, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application November 22, 1924

Serial No. 751,509

10 Claims. (Cl. 250—27.5)

1. An electron-discharge-tube device comprising a plurality of cathode sections, a plurality of anode sections, each anode section surrounding a cathode section and embracing over 180° of the angular space about said cathode and constituting therewith a substantially distinct electrode compartment having an outer metallic wall



portion, and an insulating means joined to the metallic wall portions of said electrode compartments and constituting therewith a hermetic enclosure common to a plurality of said compartments.

1,949,397

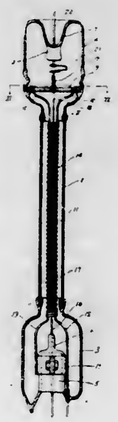
TRIODE VACUUM TUBE

Wallace G. Wade, Lancaster, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application November 22, 1924

Serial No. 751,512

2 Claims. (Cl. 250—27.5)



1. An electron-discharge device comprising a tubular metallic electrode member, insulating

closure members sealed to both ends of said electrode member and constituting therewith a hermetic enclosure, additional electrode means disposed within said tubular electrode and supported at one end solely by means of one of said closure members and insulating means for supporting the other end of said additional electrode means, said insulating means being supported solely by the other of said closure members independently of that end of said other closure member which is farthest removed from said tubular electrode.

1,949,398

WELDING ROD

John B. Austin, East Cleveland, Ohio, assignor to Una Welding, Inc., Cleveland, Ohio, a corporation of Delaware

No Drawing. Application May 19, 1930 Serial No. 453,619

8 Claims. (Cl. 219—8)

1. A coated welding electrode comprising a metal rod and a coating secured thereto by means of a nitrocellulose lacquer, said coating being substantially free from inorganic binding agents.

DESIGNS

FEBRUARY 27, 1934

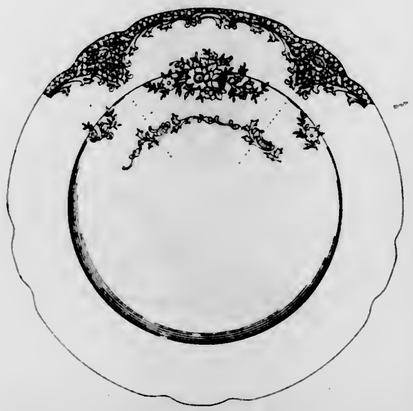
91,602

DESIGN FOR A PLATE OR SIMILAR ARTICLE

Yukio Buma, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a corporation of Japan

Application November 26, 1932, Serial No. 46,181

Term of patent 7 years



The ornamental design for a plate or similar article, as shown and described.

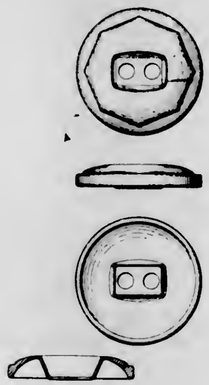
91,603

DESIGN FOR A BUTTON

Leonard R. Carley, Watertown, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut

Application March 14, 1933, Serial No. 47,446

Term of patent 14 years



The ornamental design for a button, as shown.

91,604

DESIGN FOR A BRACELET OR SIMILAR ARTICLE

Benjamin F. Conner, Wethersfield, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a corporation of Connecticut

Application August 24, 1933, Serial No. 49,100

Term of patent 7 years



The ornamental design for a bracelet or similar article as shown and described.

91,605

DESIGN FOR A BRACELET OR SIMILAR ARTICLE

Benjamin F. Conner, Wethersfield, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a corporation of Connecticut

Application November 18, 1933, Serial No. 49,790

Term of patent 7 years



The ornamental design for a bracelet or similar article as shown and described.

91,606

DESIGN FOR A BUTTON

Benjamin F. Conner, Wethersfield, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a corporation of Connecticut

Application January 3, 1934, Serial No. 50,287

Term of patent 7 years



The ornamental design for a button, as shown.

91,607
DESIGN FOR A BUTTON
Benjamin F. Conner, Wethersfield, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a corporation of Connecticut
Application January 3, 1934, Serial No. 50,288
Term of patent 7 years



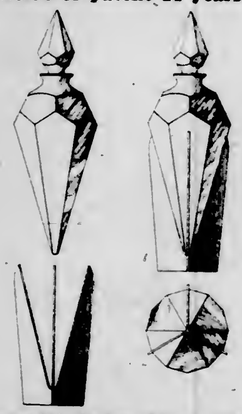
The ornamental design for a button, as shown.

91,608
DESIGN FOR A BUTTON
Benjamin F. Conner, Wethersfield, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a corporation of Connecticut
Application January 3, 1934, Serial No. 50,289
Term of patent 7 years



The ornamental design for a button, as shown.

91,609
DESIGN FOR A PERFUME BOTTLE AND BASE ENSEMBLE
Martin de Botelho, New York, N. Y.
Application November 18, 1933, Serial No. 49,792
Term of patent 14 years



The ornamental design for a perfume bottle and base ensemble substantially as shown.

91,610
DESIGN FOR A SHOE
Vincent De Liso, Astoria, Long Island, N. Y., assignor to Palter-De Liso, Inc., New York, N. Y., a corporation of New York
Application January 5, 1934, Serial No. 50,312
Term of patent 3½ years



The ornamental design for a shoe, as shown.

91,611
DESIGN FOR A SHOE
Vincent De Liso, Astoria, Long Island, N. Y., assignor to Palter-De Liso, Inc., New York, N. Y., a corporation of New York
Application January 5, 1934, Serial No. 50,313
Term of patent 3½ years



The ornamental design for a shoe, as shown.

91,612
DESIGN FOR A SHOE
Vincent De Liso, Astoria, Long Island, N. Y., assignor to Palter-De Liso, Inc., New York, N. Y., a corporation of New York
Application January 5, 1934, Serial No. 50,314
Term of patent 3½ years



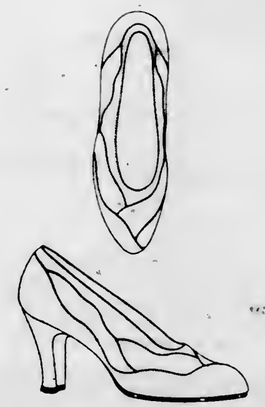
The ornamental design for a shoe, as shown.

91,613
DESIGN FOR A SHOE
Vincent De Liso, Astoria, Long Island, N. Y., assignor to Palter-De Liso, Inc., New York, N. Y., a corporation of New York
Application January 5, 1934, Serial No. 50,315
Term of patent 3½ years



The ornamental design for a shoe, as shown.

91,614
DESIGN FOR A SHOE
Vincent De Liso, Astoria, Long Island, N. Y., assignor to Palter-De Liso, Inc., New York, N. Y., a corporation of New York
Application January 5, 1934, Serial No. 50,316
Term of patent 3½ years



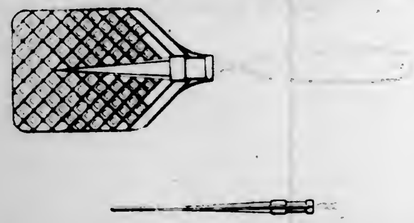
The ornamental design for a shoe, as shown.

91,615
DESIGN FOR A SHOE
Vincent De Liso, Astoria, Long Island, N. Y., assignor to Palter-De Liso, Inc., New York, N. Y., a corporation of New York
Application January 5, 1934, Serial No. 50,317
Term of patent 3½ years



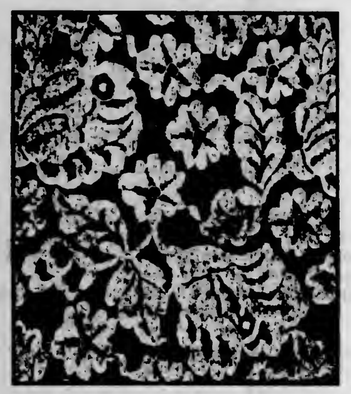
The ornamental design for a shoe, as shown.

91,616
DESIGN FOR AN INSECT SWATTER
Augustus W. Drake, Hazleton, Pa.
Application October 10, 1933, Serial No. 49,444
Term of patent 14 years



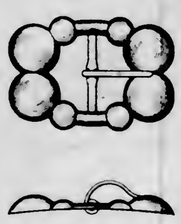
The ornamental design for an insect swatter, as shown and described.

91,617
DESIGN FOR LACE
Bert Edson, Pawtucket, R. I., assignor to New England Lace Mills, Inc., New York, N. Y.
Application January 3, 1934, Serial No. 50,293
Term of patent 3½ years



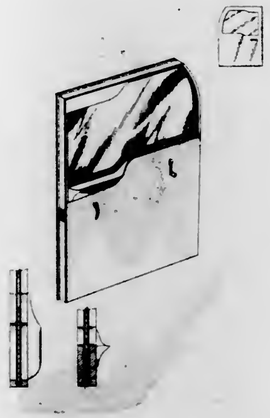
The ornamental design for lace substantially as shown.

91,618
DESIGN FOR A BUCKLE
John B. Freysinger, New Britain, Conn., assignor to North and Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut
Application January 8, 1934, Serial No. 50,352
Term of patent 3½ years



The ornamental design for a buckle as shown.

91,619
DESIGN FOR AN AUTOMOBILE BODY DOOR
Fred Ginsburg, Chicago, Ill.
Application September 13, 1933, Serial No. 49,244
Term of patent 14 years



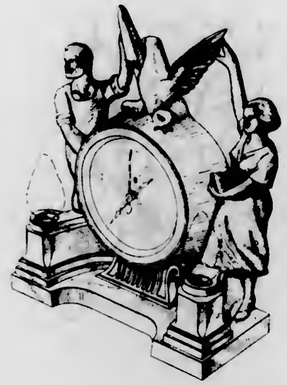
The ornamental design for an automobile body door, as shown.

91,620
DESIGN FOR A CLOCK CASE OR SIMILAR ARTICLE
Joseph Gottlieb, Jersey City, N. J.
Application November 11, 1933, Serial No. 49,702
Term of patent 3½ years



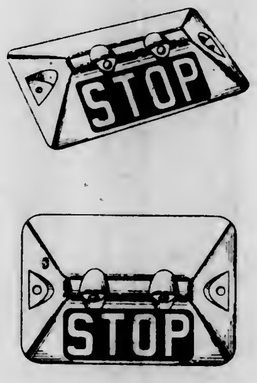
The ornamental design for a clock case or similar article, as shown.

91,621
DESIGN FOR A COMBINED CLOCK CASE AND LAMP OR SIMILAR ARTICLE
Joseph Gottlieb, Jersey City, N. J.
Application January 5, 1934, Serial No. 50,327
Term of patent 3½ years



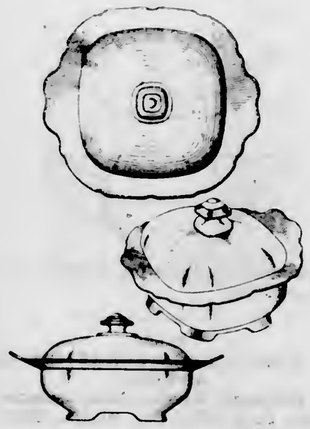
The ornamental design for a combined clock case and lamp or similar article, as shown.

91,622
DESIGN FOR A PAVEMENT SIGNAL
William E. Grace, Dallas, Tex.
Application January 2, 1934, Serial No. 50,284
Term of patent 7 years



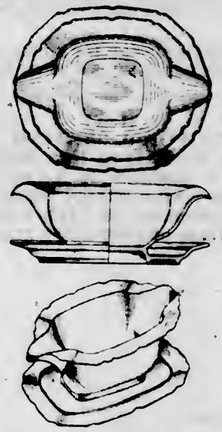
The ornamental design for a pavement signal as shown.

91,623
DESIGN FOR A CASSEROLE, BOWL, OR SIMILAR ARTICLE
Louis E. Hellmann, Great Neck, N. Y., assignor to Continental Ceramics Corporation, New York, N. Y., a corporation of New York
Application September 22, 1933, Serial No. 49,313
Term of patent 7 years



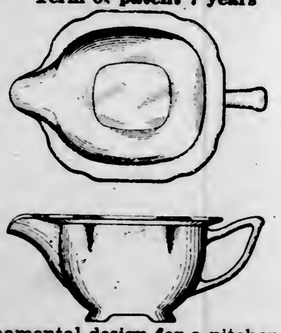
The ornamental design for a casserole, bowl, or similar article as shown.

91,624
DESIGN FOR A DISH OR SIMILAR ARTICLE
Louis E. Hellmann, Great Neck, N. Y., assignor to Continental Ceramics Corporation, New York, N. Y., a corporation of New York
Application September 22, 1933, Serial No. 49,314
Term of patent 7 years



The ornamental design for a dish or similar article as shown.

91,625
DESIGN FOR A PITCHER OR SIMILAR ARTICLE
Louis E. Hellmann, Great Neck, N. Y., assignor to Continental Ceramics Corporation, New York, N. Y., a corporation of New York
Application September 22, 1933, Serial No. 49,315
Term of patent 7 years



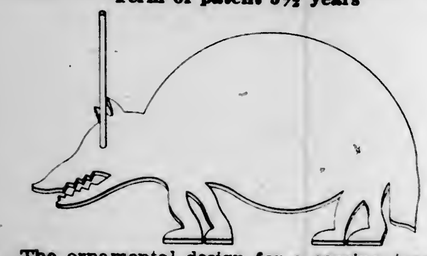
The ornamental design for a pitcher or similar article as shown.

91,626
DESIGN FOR A LACE SCARF OR SIMILAR ARTICLE
Hage W. Hucknall, Elyria, Ohio, assignor to The American Lace Mfg. Co., Elyria, Ohio, a corporation of Ohio
Application January 6, 1934, Serial No. 50,344
Term of patent 3½ years



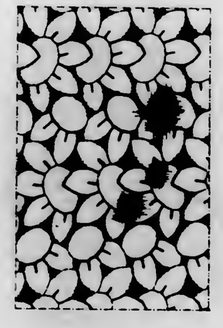
The ornamental design for a lace scarf or similar article substantially as shown and described.

91,627
DESIGN FOR A SERVING TRAY
Livingston S. Hunt, West New Brighton, Staten Island, N. Y., assignor to Roland Hoyt Sloan, West New Brighton, Staten Island, N. Y.
Application November 16, 1933, Serial No. 49,756
Term of patent 3½ years



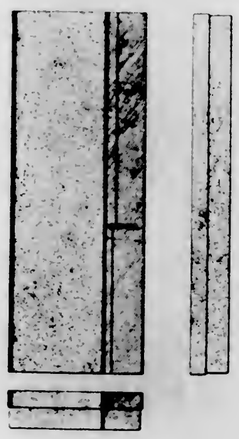
The ornamental design for a serving tray, as shown.

91,628
DESIGN FOR A TEXTILE FABRIC
Max U. Juestrich, Ridgefield, N. J., assignor to The American Fabrics Company, Bridgeport, Conn., a corporation of Connecticut
Application December 20, 1933, Serial No. 50,134
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

91,629
DESIGN FOR A CONTAINER
Samuel N. Kephart, Chicago, Ill., assignor to Marshall Field & Company, Chicago, Ill., a corporation of Illinois
Application December 11, 1933, Serial No. 50,034
Term of patent 14 years



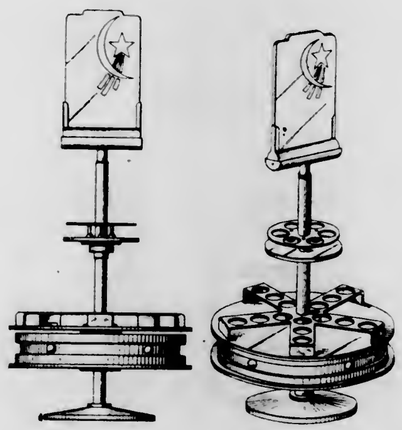
The ornamental design for a container as shown.

91,630
DESIGN FOR A SEAL
Samuel Klein, New York, and David R. Kasanof, Brooklyn, N. Y.; said Kasanof assignor to said Klein
Application December 24, 1930, Serial No. 38,113
Term of patent 14 years



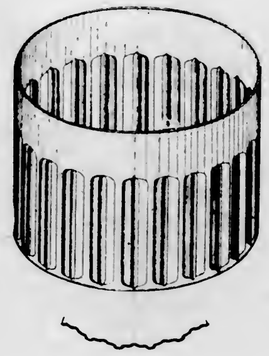
The ornamental design for a seal substantially as shown.

91,631
DESIGN FOR A DISPLAY STAND
Samuel Kohn, New York, N. Y.
Application December 20, 1933, Serial No. 50,158
Term of patent 14 years



The ornamental design for a display stand as shown.

91,632
DESIGN FOR A TUB
John J. McCabe, Cleveland, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1933, Serial No. 48,424
Term of patent 14 years



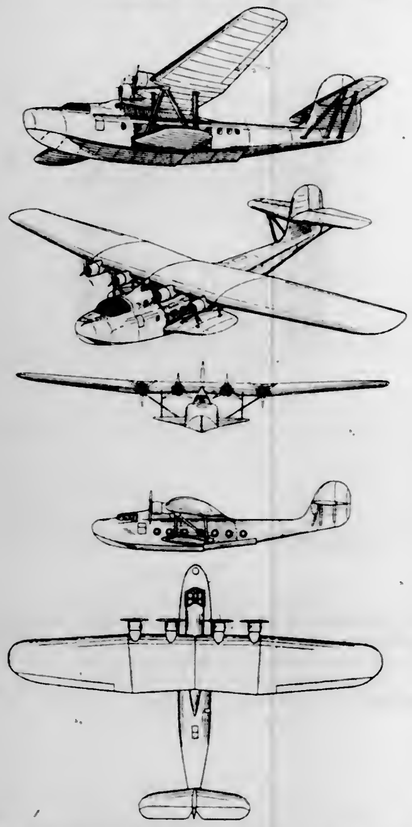
The ornamental design for a tub as shown.

91,633
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Richard L. Marwede, New York, N. Y., assignor to The Rosenthal China Corporation, New York, N. Y., a corporation of New York
Application September 22, 1933, Serial No. 49,316
Term of patent 7 years



The ornamental design for a plate or similar article as shown and described.

91,634
DESIGN FOR A TRANSOCEANIC FLYING BOAT
Lesaiter C. Milburn, Towson, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application May 13, 1933, Serial No. 48,113
Term of patent 14 years



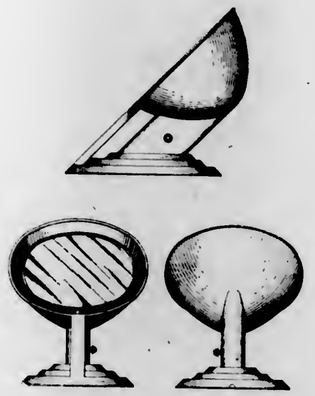
The ornamental design for a transoceanic flying boat substantially as shown and described.

91,635
DESIGN FOR A BOTTLE OPENER
Ferdinand Neumer, New York, N. Y., assignor to Jacob Ruppert, New York, N. Y., a corporation of New York
Application December 7, 1933, Serial No. 49,979
Term of patent 14 years



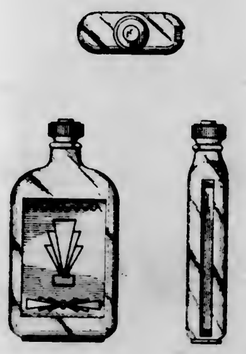
The ornamental design for a bottle opener, as shown.

91,636
DESIGN FOR AN ILLUMINATED MAKE-UP MIRROR
Raymond Ring, William L. Pereira, and James Horsley, Chicago, Ill.; said Pereira and said Horsley assignors to said Ring
Application December 20, 1933, Serial No. 50,150
Term of patent 14 years



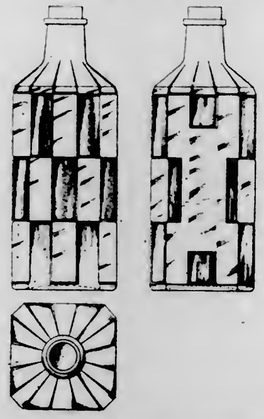
The ornamental design for an illuminated make-up mirror, as shown.

91,637
DESIGN FOR A LIGHTER
Henry T. Schiff, Chicago, Ill.
Application December 28, 1933, Serial No. 50,237.
Term of patent 3½ years



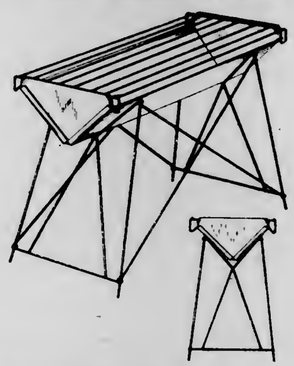
The ornamental design for a lighter, substantially as shown.

91,638
DESIGN FOR A BOTTLE
Clarence K. Simon, New York, N. Y., assignor to Dominion Distilleries Inc., Jersey City, N. J., a corporation of New Jersey
Application January 13, 1934, Serial No. 50,398
Term of patent 14 years



The ornamental design for a bottle, as shown.

91,639
DESIGN FOR A CAMP STOVE
Ernest Stulik, Buffalo, N. Y.
Application September 19, 1933, Serial No. 49,292
Term of patent 3½ years



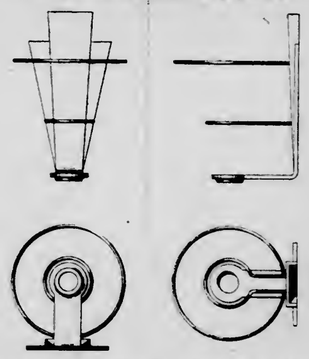
The ornamental design for a camp stove substantially as shown and described.

91,640
DESIGN FOR A COMBINED PICTURE FRAME AND CONVEX GLASS
Herman A. Tidemann, Toronto, Ontario, Canada
Application August 10, 1933, Serial No. 48,981
Term of patent 3½ years



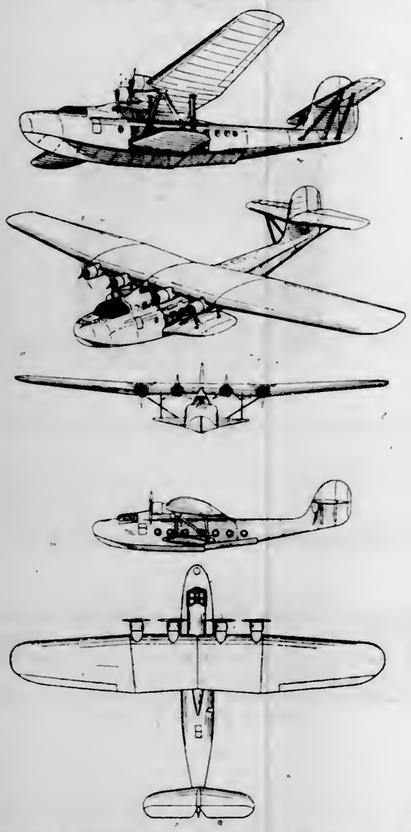
The ornamental design for a combined picture frame and convex glass substantially as shown and described.

91,641
DESIGN FOR A FIRE EXTINGUISHER BRACKET
Carl O. G. Wittig, Golden, Colo.
Application December 15, 1933, Serial No. 50,088
Term of patent 3½ years



The ornamental design for a fire extinguisher bracket, as shown.

91,634
DESIGN FOR A TRANSOCEANIC FLYING BOAT
Lesaiter C. Milburn, Towson, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application May 13, 1933, Serial No. 48,113
Term of patent 14 years



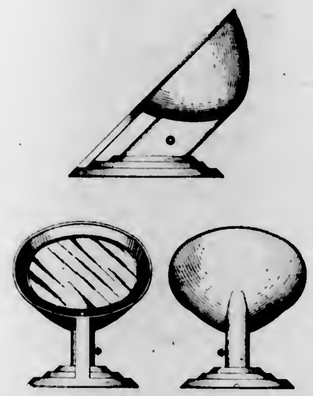
The ornamental design for a transoceanic flying boat substantially as shown and described.

91,635
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Ferdinand Neumer, New York, N. Y., assignor to Jacob Ruppert, New York, N. Y., a corporation of New York
Application December 7, 1933, Serial No. 49,979
Term of patent 14 years



The ornamental design for a bottle opener, as shown.

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Application December 20, 1933, Serial No. 50,150
Term of patent 14 years



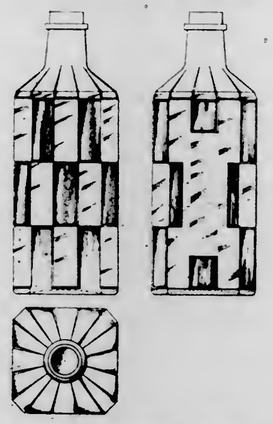
The ornamental design for an illuminated make-up mirror, as shown.

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Henry T. Schiff, Chicago, Ill.
Application December 28, 1933, Serial No. 50,237.
Term of patent 3½ years



The ornamental design for a lighter, substantially as shown.

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DESIGN FOR A BOTTLE
Clarence K. Simon, New York, N. Y., assignor to Dominion Distilleries Inc., Jersey City, N. J., a corporation of New Jersey
Application January 13, 1934, Serial No. 50,398
Term of patent 14 years

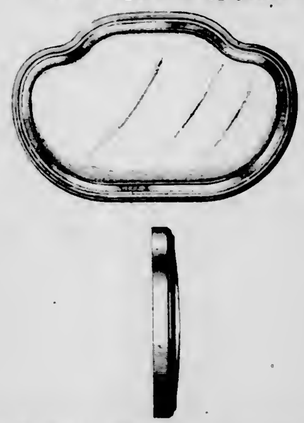


The ornamental design for a bottle, as shown.

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DESIGN FOR A CAMP STOVE
Ernest Stulik, Buffalo, N. Y.
Application September 19, 1933, Serial No. 49,292
Term of patent 3½ years

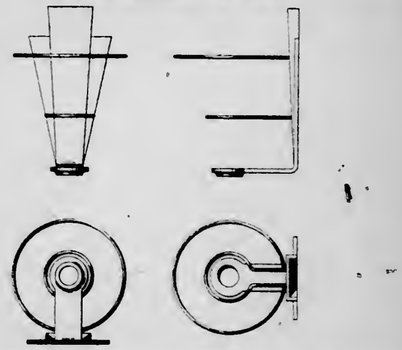
The ornamental design for a camp stove substantially as shown and described.

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Herman A. Tidemann, Toronto, Ontario, Canada
Application August 10, 1933, Serial No. 48,981
Term of patent 3½ years



The ornamental design for a combined picture frame and convex glass substantially as shown and described.

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Carl O. G. Wittig, Golden, Colo.
Application December 15, 1933, Serial No. 50,088
Term of patent 3½ years



The ornamental design for a fire extinguisher bracket, as shown.

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